

Status Report

Total Records: 1499

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Wabash	1499	Drillers Log	557	HERRIN	488	WEST FRANKLIN LIMESTONE	697
		Electric Log	352	SPRINGFIELD	478	HERRIN COAL	488
		Survey Core Study	31	HOUCHIN CREEK	396	SPRINGFIELD COAL	478

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
KEENSBURG	COAL	45.3	10.0	83.0	2.0	0.5	6.0
MCCLEARY'S BLUFF	COAL	38.1	21.5	59.7	1.4	0.2	4.4
FRIENDSVILLE	COAL	62.3	15.0	147.0	3.3	0.3	12.0
MILLERSVILLE	LIMESTONE	58.0	58.0	58.0	8.9	8.8	9.0
LIVINGSTON	LIMESTONE	68.4	31.7	147.0	3.1	0.1	11.9
BRISTOL HILL	COAL	210.5	210.0	211.0	1.0	1.0	1.0
WITT	COAL	123.3	17.0	240.0	2.3	0.5	8.0
REEL	LIMESTONE	181.7	15.0	297.0	2.2	0.5	15.0
FLANNIGAN	COAL	159.6	17.0	268.0	2.5	0.5	12.0
MT. CARMEL	SANDSTONE	211.7	17.0	344.0	61.0	9.0	167.0
CARTHAGE	LIMESTONE	258.0	82.0	395.0	7.3	1.0	104.0
NEW HAVEN	COAL	287.5	252.0	332.0	1.2	0.6	2.0
MACOUPIN	LIMESTONE	334.1	115.0	548.0	1.4	1.0	6.0
WOMAC	COAL	359.6	274.0	423.0	1.4	0.5	3.0
CRAMER	LIMESTONE	432.2	432.2	432.2	0.8	0.8	0.8
CHAPEL	COAL	419.1	240.0	529.0	1.5	0.4	3.5
TRIVOLI	SANDSTONE	302.0	235.0	435.0	22.3	7.5	40.5
WEST FRANKLIN	LIMESTONE	420.0	180.0	567.0	12.3	1.5	207.0
FARMINGTON	SHALE	515.6	304.0	635.0	114.2	21.8	205.0
DANVILLE	COAL	626.4	335.0	797.0	3.0	1.0	7.0
BANKSTON FORK	LIMESTONE	658.8	370.0	786.0	3.9	1.0	8.0
ANVIL ROCK	SANDSTONE	668.5	411.0	790.0	9.8	3.0	25.5
CONANT	LIMESTONE	638.7	525.0	710.0	1.3	0.2	2.0
JAMESTOWN	COAL	717.0	677.0	768.8	0.5	0.0	1.3
BRERETON	LIMESTONE	676.6	517.0	813.0	4.1	0.3	12.0
ANNA	SHALE	681.3	521.0	798.5	1.9	0.3	6.0
HERRIN	COAL	659.9	396.0	850.0	3.4	0.1	10.0
VERMILIONVILLE	SANDSTONE	678.7	408.0	810.0	33.2	3.0	60.0
BRIAR HILL	COAL	727.0	436.0	894.0	1.4	0.5	3.0
CANTON	SHALE	695.1	443.0	866.0	9.3	6.0	22.0

ST. DAVID	LIMESTONE	829.8	508.0	878.0	2.0	1.0	3.4
TURNER MINE	SHALE	851.8	677.2	890.0	2.8	0.3	5.0
DYKERSBURG	SHALE	768.9	509.0	926.0	48.3	2.6	133.4
SPRINGFIELD	COAL	770.4	480.0	949.0	5.2	0.2	11.0
SS BELOW NO. 5	SANDSTONE	797.7	552.0	917.0	20.9	4.0	56.0
HANOVER	LIMESTONE	768.0	768.0	768.0	3.0	3.0	3.0
EXCELLO	SHALE	953.7	761.0	998.0	4.0	2.0	9.0
HOUCHIN CREEK	COAL	853.7	584.0	1082.0	2.5	0.8	16.0
SURVANT	COAL	855.6	182.0	1015.0	1.8	0.8	5.0
MECCA QUARRY	SHALE	1014.5	730.0	1075.0	5.3	1.0	30.0
COLCHESTER	COAL	933.2	723.0	1085.0	1.5	0.5	8.0
SEELYVILLE	COAL	1103.5	994.7	1156.0	5.0	0.4	7.0
DEKOVEN	COAL	932.2	754.0	1085.0	1.8	0.5	3.0
LOWER DEKOVEN	COAL	1028.3	838.0	1128.0	1.8	1.2	3.0
DAVIS	COAL	977.4	775.0	1183.0	4.2	0.5	9.1
CARRIER MILLS	SHALE	1018.9	805.0	1186.0	3.2	1.5	6.0
SEAHORNE LS	LIMESTONE	1282.0	1282.0	1282.0	5.0	5.0	5.0
CREAL SPRING	LIMESTONE	1130.0	1130.0	1130.0	3.8	3.8	3.8
BASE L KINKAID	LIMESTONE	1753.6	1620.0	1982.0	-	-	-
BASE BARLOW	LIMESTONE	2314.7	1963.0	2684.0	-	-	-
BASE RENAULT	SANDSTONE	2593.7	2230.0	2912.0	-	-	-
				Net Coal	48.7		

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: 18500146000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.684463

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.543536

DATE COLLECTED:

SURFACE ELEVATION (FT.): 417.0

LOGGED (FT.): 2239.0

LOG TYPE: Electric Log

SOURCE: HOPKINS, DALE

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	CARBONDALE	HERRIN	COAL	2.0	448.0
-95.0	CARBONDALE	BRIAR HILL	COAL	-	512.0
-116.0	CARBONDALE	SPRINGFIELD	COAL	3.0	533.0
-203.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0

MAPID: 18502988000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 11W

SECTION: 6

QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.670523

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.547074

DATE COLLECTED: 10 / 0 / 1927

SURFACE ELEVATION (FT.):

LOGGED (FT.): 1197.0

LOG TYPE: Drillers Log

SOURCE: FOREMAN, ET AL

1

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	52.0	0.0	SOIL, CLAY, AND MUD
-			SANDSTONE	34.0	52.0	
-			SHALE	6.0	86.0	
-			CALCAREOUS SHALE	63.0	92.0	
-			LIMESTONE	10.0	155.0	
-			SANDY SHALE	25.0	165.0	
-			CALCAREOUS SHALE	12.0	190.0	
-			LIMESTONE	8.0	202.0	
-			SANDSTONE	5.0	210.0	
-			LIMESTONE	15.0	215.0	
-			SHALE	20.0	230.0	
-			LIMESTONE	1.0	250.0	
-			CALCAREOUS SHALE	51.0	251.0	
-			SHALE	16.0	302.0	
-			COAL	1.0	318.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	48.0	319.0	
-			LIMESTONE	5.0	367.0	
-			SHALE	13.0	372.0	
-			LIMESTONE	5.0	385.0	
-			SANDSTONE	16.0	390.0	
-			SHALE	4.0	406.0	
-			LIMESTONE	2.0	410.0	
-			COAL	3.0	412.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SHALE	15.0	415.0	
-			SANDSTONE	20.0	430.0	

MAPID: 18503013000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 6 QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.675192 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.541603 DATE COLLECTED: 10 / 10 / 1936

SURFACE ELEVATION (FT.): 497.3 LOGGED (FT.): 1440.0 LOG TYPE: Drillers Log

SOURCE: ADAMS CORNERS OIL CO. 15 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 590'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.3			CLAY	28.0	0.0	
469.3			SANDSTONE	7.0	28.0	
462.3			CALCAREOUS SHALE	20.0	35.0	
442.3			SANDSTONE	5.0	55.0	
437.3			CALCAREOUS SHALE	3.0	60.0	
434.3			SANDSTONE	27.0	63.0	
407.3			SANDSTONE	44.0	90.0	
363.3			CALCAREOUS SHALE	31.0	134.0	
332.3			SANDSTONE	17.0	165.0	
315.3			SHALE	38.0	182.0	
277.3			DARK SHALE	30.0	220.0	
247.3			LIMESTONE	3.0	250.0	
244.3			DARK SHALE	27.0	253.0	
217.3			LIMESTONE	10.0	280.0	
207.3			SHALE	30.0	290.0	
177.3			GRAY SHALE	5.0	320.0	
172.3			SANDY SHALE	10.0	325.0	
162.3			GRAY SHALE	28.0	335.0	ERROR IN LOG THICKNESS OR DEPTH
34.3			SHALE	27.0	463.0	
7.3			DARK SHALE	15.0	490.0	
-7.7			SANDSTONE	30.0	505.0	
-37.7			DARK SHALE	39.0	535.0	
-76.7			COAL	2.0	574.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-78.7			SANDY SHALE	14.0	576.0	
-92.7			SANDSTONE	53.0	590.0	
-145.7			SHALE	17.0	643.0	
-162.7			LIMESTONE	2.0	660.0	

MAPID: 18503048000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 11W

SECTION: 7

QUARTERS/FOOTAGES: NW NE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.674838

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.537042

DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.):

LOGGED (FT.): 1447.5

LOG TYPE: Drillers Log

SOURCE: MAHUTSKA OIL CO. 10

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	80.0	0.0	SOIL, CLAY, AND MUD
-			LIGHT SHALE	61.0	80.0	
-			SHALE	10.0	141.0	
-			SANDSTONE	27.0	151.0	
-			DARK SHALE	8.0	178.0	
-			LIGHT SHALE	26.0	186.0	
-			DARK SHALE	44.0	212.0	
-			LIMESTONE	5.0	256.0	
-			DARK SHALE	26.0	261.0	
-			LIMESTONE	7.0	287.0	
-			LIGHT SHALE	21.0	294.0	
-			DARK SHALE	15.0	315.0	
-			COAL	3.0	330.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	7.0	333.0	
-			GRAY SHALE	8.0	340.0	

MAPID: 18503049000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 7 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.670209 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.536999 DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 481.5 LOGGED (FT.): 1434.0 LOG TYPE: Drillers Log

SOURCE: MAHUTSKA OIL CO. 11 WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
481.5			CLAY	23.0	0.0	
458.5			DARK SHALE	12.0	23.0	
446.5			SANDSTONE	10.0	35.0	
436.5			GRAY SHALE	21.0	45.0	
415.5			SANDY SHALE	4.0	66.0	
411.5			SANDSTONE	45.0	70.0	
366.5			GRAY SHALE	62.0	115.0	
304.5			DARK SHALE	1.0	177.0	
303.5			SANDSTONE	3.0	178.0	
300.5			DARK SHALE	19.0	181.0	
281.5			SHALE	10.0	200.0	
271.5			LIGHT SHALE	18.0	210.0	
253.5			LIMESTONE	24.0	228.0	
229.5			DARK SHALE	21.0	252.0	
208.5			COAL	3.0	273.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
205.5			DARK SHALE	10.0	276.0	
195.5			LIMESTONE	6.0	286.0	
189.5			LIGHT SHALE	18.0	292.0	
171.5			SANDY SHALE	10.0	310.0	
161.5			GRAY SHALE	17.0	320.0	
144.5			COAL	3.0	337.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
141.5			DARK SHALE	5.0	340.0	
136.5			LIGHT SHALE	15.0	345.0	
121.5			DARK SHALE	7.0	360.0	
114.5			LIGHT SHALE	13.0	367.0	
101.5			DARK SHALE	5.0	380.0	
96.5			LIMESTONE	4.0	385.0	
92.5			LIGHT SHALE	56.0	389.0	
36.5			DARK SHALE	21.0	445.0	
15.5			COAL	4.0	466.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
11.5			LIGHT SHALE	10.0	470.0	
1.5			SANDSTONE	15.0	480.0	

MAPID: 18503050000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 0' W line of NW NE
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.677151 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.537048 DATE COLLECTED: 0 / 0 / 1936
SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 1440.0 LOG TYPE: Drillers Log
SOURCE: MAHUTSKA OIL CO. 12 WELL TYPE: Oil and Gas Test
COMMENT: COAL ONLY TO 585'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
464.0			UNCONSOLIDATED	34.0	0.0	SOIL, CLAY, AND MUD
430.0			LIMESTONE	2.0	34.0	
428.0			CALCAREOUS SHALE	29.0	36.0	
399.0			SANDSTONE	54.0	65.0	
345.0			DARK SHALE	31.0	119.0	
314.0			SHALE	15.0	150.0	
299.0			DARK SHALE	75.0	165.0	
224.0			SANDSTONE	20.0	240.0	
204.0			LIGHT SHALE	28.0	260.0	
176.0			LIMESTONE	8.0	288.0	
168.0			SHALE	24.0	296.0	
144.0			DARK SHALE	14.0	320.0	
130.0			DARK SHALE	6.0	334.0	DK SH W/ CO PARTINGS
124.0			DARK SHALE	5.0	340.0	
119.0			LIGHT SHALE	115.0	345.0	
4.0			COAL	5.0	460.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-1.0			LIGHT SHALE	30.0	465.0	
-31.0			DARK SHALE	6.0	495.0	
-37.0			SANDSTONE	11.0	501.0	
-48.0			SANDSTONE	38.0	512.0	
-86.0			DARK SHALE	32.0	550.0	
-118.0			COAL	3.0	582.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-121.0			LIGHT SHALE	10.0	585.0	
-131.0			SANDSTONE	5.0	595.0	

MAPID: 18503054000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 11W

SECTION: 7

QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.678092

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.532542

DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 474.0

LOGGED (FT.): 1510.0

LOG TYPE: Drillers Log

SOURCE: MAHUTSKA OIL CO. 1

WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 819'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
474.0			UNCONSOLIDATED	75.0	0.0	SOIL, CLAY, AND MUD
399.0			SANDSTONE	49.0	75.0	
350.0			DARK SHALE	29.0	124.0	
321.0			SANDSTONE	17.0	153.0	
304.0			LIGHT SHALE	50.0	170.0	
254.0			LIMESTONE	6.0	220.0	
248.0			SANDSTONE	19.0	226.0	
229.0			SHALE	34.0	245.0	
195.0			LIMESTONE	6.0	279.0	
189.0			LIGHT SHALE	15.0	285.0	
174.0			SANDSTONE	10.0	300.0	
164.0			LIGHT SHALE	10.0	310.0	
154.0			DARK SHALE	20.0	320.0	
134.0			SANDSTONE	8.0	340.0	
126.0			LIGHT SHALE	112.0	348.0	
14.0			COAL	2.0	460.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
12.0			DARK SHALE	8.0	462.0	
4.0			SANDSTONE	25.0	470.0	
-21.0			DARK SHALE	7.0	495.0	
-28.0			COAL	3.0	502.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-31.0			DARK SHALE	5.0	505.0	
-36.0			SANDSTONE	45.0	510.0	
-81.0			DARK SHALE	15.0	555.0	
-96.0			SANDSTONE	5.0	570.0	
-101.0			SHALE	35.0	575.0	
-136.0			SANDSTONE	15.0	610.0	
-151.0			SHALE	15.0	625.0	
-166.0			SANDSTONE	13.0	640.0	
-179.0			SHALE	36.0	653.0	
-215.0			SANDSTONE	15.0	689.0	
-230.0			DARK SHALE	12.0	704.0	
-242.0			SANDSTONE	17.0	716.0	
-259.0			DARK SHALE	7.0	733.0	
-266.0			COAL	2.0	740.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-268.0			SANDSTONE	5.0	742.0	
-273.0			DARK SHALE	55.0	747.0	
-328.0			SANDSTONE	4.0	802.0	
-332.0			DARK SHALE	10.0	806.0	
-342.0			COAL	3.0	816.0	NOT SUITABLE FOR RESOURCE CALCULATIONS

-345.0	LIGHT SHALE	51.0	819.0
-396.0	SANDSTONE	4.0	870.0
-400.0	LIMESTONE	11.0	874.0

MAPID: 18501382000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 11W **SECTION:** 8 **QUARTERS/FOOTAGES:** 475' S line, 790' W line of SW
QUADRANGLE: ST. FRANCISVILLE **LONGITUDE:** -87.664733 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.52585 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 2209.0 **LOG TYPE:** Electric Log
SOURCE: ENGLE, GEORGE S. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-30.0	CARBONDALE	HERRIN	COAL	-	473.0
-102.0	CARBONDALE	BRIAR HILL	COAL	-	545.0
-133.0	CARBONDALE	SPRINGFIELD	COAL	4.0	576.0
-207.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0

MAPID: 18502431000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 11W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: ST. FRANCISVILLE **LONGITUDE:** -87.659059 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.517167 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 2300.0 **LOG TYPE:** Electric Log
SOURCE: DIXON FREHLING PROD **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-8.0	CARBONDALE	HERRIN	COAL	3.0	416.0
-78.0	CARBONDALE	BRIAR HILL	COAL	-	486.0
-106.0	CARBONDALE	SPRINGFIELD	COAL	3.0	514.0
-188.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0

MAPID: 18500147000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1N 11W

SECTION: 18

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

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.684512

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.523371

DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0

LOGGED (FT.): 2262.0

LOG TYPE: Electric Log

SOURCE: OLDS OIL & MCNEILL

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-45.0	CARBONDALE	HERRIN	COAL	3.0	510.0	
-116.0	CARBONDALE	BRIAR HILL	COAL	-	581.0	
-142.0	CARBONDALE	SPRINGFIELD	COAL	4.0	607.0	
-205.0	CARBONDALE	HOUCHIN CREEK	COAL	-	670.0	

MAPID: 18503071000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 18 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.683385

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.522226

DATE COLLECTED: 0 / 0 / 1938

SURFACE ELEVATION (FT.): LOGGED (FT.): 1550.0

LOG TYPE: Drillers Log

SOURCE: ADAMS CORNERS OIL CO. 9

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG. COAL TO 657'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	20.0	0.0	
-			SANDY CLAY	10.0	20.0	
-			CALCAREOUS SHALE	50.0	30.0	
-			SANDSTONE	5.0	80.0	
-			LIGHT SHALE	25.0	85.0	
-			SANDY SHALE	13.0	110.0	
-			CALCAREOUS SHALE	2.0	123.0	
-			SANDSTONE	48.0	125.0	
-			CALCAREOUS SHALE	8.0	173.0	
-			LIMESTONE	3.0	181.0	
-			LIGHT SHALE	91.0	184.0	
-			DARK SHALE	5.0	275.0	
-			LIMESTONE	1.0	280.0	
-			LIGHT SHALE	74.0	281.0	
-			LIMESTONE	4.0	355.0	
-			LIGHT SHALE	2.0	359.0	
-			LIMESTONE	3.0	361.0	ERROR IN LOG THICKNESS OR DEPTH
-			LIGHT SHALE	15.0	365.0	
-			DARK SHALE	15.0	380.0	
-			SANDSTONE	50.0	395.0	
-			SHALE	15.0	445.0	
-			SANDSTONE	15.0	460.0	
-			LIGHT SHALE	49.0	475.0	
-			COAL	2.0	524.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIGHT SHALE	24.0	526.0	
-			SANDSTONE	20.0	550.0	
-			COAL	3.0	570.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SHALE	19.0	573.0	
-			SANDSTONE	18.0	592.0	
-			SANDY SHALE	23.0	610.0	
-			DARK SHALE	17.0	633.0	
-			LIMESTONE	4.0	650.0	
-			COAL	3.0	654.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SHALE	25.0	657.0	
-			SANDSTONE	35.0	682.0	
-			SHALE	3.0	717.0	

MAPID: 18503097000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 18 QUARTERS/FOOTAGES: SE SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.678586 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.509874 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 1578.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND OIL, GAS, & REF. CO. 1 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	15.0	0.0	
-			SANDSTONE	38.0	15.0	
-			SANDSTONE	50.0	53.0	
-			GRAY SHALE	27.0	103.0	
-			SANDY SHALE	20.0	130.0	
-			DARK SHALE	47.0	150.0	
-			SANDSTONE	16.0	197.0	
-			SANDY SHALE	29.0	213.0	
-			DARK SHALE	28.0	242.0	
-			LIMESTONE	6.0	270.0	
-			LIGHT SHALE	6.0	276.0	
-			SANDSTONE	5.0	282.0	
-			LIGHT SHALE	15.0	287.0	
-			SHALE	5.0	302.0	
-			GRAY SHALE	28.0	307.0	
-			SANDSTONE	50.0	335.0	
-			LIGHT SHALE	48.0	385.0	
-			DARK SHALE	17.0	433.0	
-			SANDSTONE	99.0	460.0	ERROR IN LOG THICKNESS OR DEPTH
-			DARK SHALE	20.0	559.0	
-			COAL	3.0	579.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	33.0	582.0	
-			SANDSTONE	20.0	615.0	
-			DARK SHALE	5.0	635.0	
-			SANDSTONE	20.0	640.0	
-			DARK SHALE	20.0	660.0	
-			LIMESTONE	8.0	680.0	
-			LIGHT SHALE	34.0	688.0	
-			LIMESTONE	2.0	722.0	
-			LIGHT SHALE	6.0	724.0	
-			LIMESTONE	5.0	730.0	
-			LIGHT SHALE	15.0	735.0	
-			COAL	3.0	750.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	8.0	753.0	
-			LIGHT SHALE	19.0	761.0	
-			BLACK SHALE	20.0	780.0	
-			DARK SHALE	90.0	800.0	
-			LIMESTONE	3.0	890.0	
-			LIGHT SHALE	20.0	893.0	

-	LIMESTONE	5.0	913.0	
-	DARK SHALE	36.0	918.0	
-	SANDSTONE	6.0	954.0	
-	GRAY SHALE	60.0	960.0	
-	DARK SHALE	40.0	1020.0	
-	SANDSTONE	50.0	1060.0	
-	DARK SHALE	55.0	1110.0	
-	SANDSTONE	12.0	1165.0	
-	DARK SHALE	10.0	1177.0	
-	SANDSTONE	13.0	1187.0	
-	LIMESTONE	70.0	1200.0	
-	SANDSTONE	6.0	1270.0	
-	DARK SHALE	8.0	1276.0	
-	LIMESTONE	5.0	1284.0	
-	LIGHT SHALE	7.0	1289.0	
-	SANDSTONE	10.0	1296.0	
-	DARK SHALE	25.0	1306.0	
-	SANDSTONE	5.0	1341.0	ERROR IN LOG THICKNESS OR DEPTH
-	CALCAREOUS SHALE	3.0	1346.0	
-	COAL	3.0	1349.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-	SANDSTONE	16.0	1352.0	
-	LIMESTONE	4.0	1368.0	
-	DARK SHALE	15.0	1372.0	
-	LIMESTONE	6.0	1387.0	
-	DARK SHALE	27.0	1393.0	
-	LIMESTONE	1.0	1420.0	
-	LIMESTONE	4.0	1421.0	
-	DARK SHALE	10.0	1425.0	
-	LIMESTONE	15.0	1435.0	
-	SHALE	30.0	1450.0	
-	LIMESTONE	8.0	1480.0	
-	LIMESTONE	5.0	1488.0	
-	COAL	3.0	1493.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-	SHALE	5.0	1496.0	
-	LIMESTONE	6.0	1501.0	
-	SANDSTONE	7.0	1507.0	
-	SHALE	11.0	1514.0	
-	LIMESTONE	15.0	1525.0	
-	SANDSTONE	18.0	1540.0	
-	SHALE	4.0	1558.0	
-	SANDSTONE	11.0	1562.0	
-	LIMESTONE	1.0	1573.0	
-	SANDSTONE	4.0	1574.0	

MAPID: 18500148000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 11W SECTION: 19 QUARTERS/FOOTAGES: 113' N line, 202' W line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.684986 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.507384 DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 2346.0 LOG TYPE: Electric Log

SOURCE: WHITE & WICKWIRE WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-41.0	CARBONDALE	HERRIN	COAL	2.0	503.0
-98.0	CARBONDALE	BRIAR HILL	COAL	-	560.0
-122.0	CARBONDALE	SPRINGFIELD	COAL	2.0	584.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	644.0

MAPID: 18502373000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 1 QUARTERS/FOOTAGES: 500' N line, 400' W line of NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.694195 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.552165 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 1403.0 LOG TYPE: Electric Log

SOURCE: GEORGE, T. W. TRUST WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-103.0	CARBONDALE	BRIAR HILL	COAL	-	530.0
-130.0	CARBONDALE	SPRINGFIELD	COAL	4.0	557.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	635.0

MAPID: 18503142000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 1

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.69432

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.546802

DATE COLLECTED: 9 / 0 / 1925

SURFACE ELEVATION (FT.): 421.1

LOGGED (FT.): 1432.0

LOG TYPE: Drillers Log

SOURCE: WABASH OIL CO.

WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 702'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.1			UNCONSOLIDATED	100.0	0.0	SOIL, SAND, AND CLAY
321.1			SANDSTONE	12.0	100.0	
309.1			SHALE	60.0	112.0	
249.1			SANDSTONE	10.0	172.0	
239.1			SHALE	68.0	182.0	
171.1			LIMESTONE	3.0	250.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
168.1			LIGHT SHALE	157.0	253.0	
11.1			COAL	2.0	410.0	
9.1			LIGHT SHALE	28.0	412.0	
-18.9			SANDSTONE	30.0	440.0	
-48.9			DARK SHALE	30.0	470.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-78.9			LIGHT SHALE	10.0	500.0	
-88.9			DARK SHALE	43.0	510.0	
-131.9			LIMESTONE	3.0	553.0	
-134.9			COAL	2.0	556.0	
-136.9			LIGHT SHALE	15.0	558.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-151.9			SANDSTONE	32.0	573.0	
-183.9			LIGHT SHALE	35.0	605.0	
-218.9			COAL	2.0	640.0	
-220.9			LIGHT SHALE	18.0	642.0	
-238.9			SANDSTONE	12.0	660.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-250.9			LIGHT SHALE	28.0	672.0	
-278.9			COAL	2.0	700.0	

MAPID: 18503151000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 1 QUARTERS/FOOTAGES: 1150' N line, 1545' E line of SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.691054 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.542659 DATE COLLECTED: 3 / 0 / 1941

SURFACE ELEVATION (FT.): LOGGED (FT.): 2030.0 LOG TYPE: Drillers Log

SOURCE: J.S. YOUNG, JR. 1 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG. COAL TO 839'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDSTONE	85.0	0.0	
-			DARK SHALE	5.0	85.0	
-			SANDSTONE	25.0	90.0	
-			LIGHT SHALE	20.0	115.0	
-			LIMESTONE	5.0	135.0	
-			SANDY SHALE	25.0	140.0	
-			LIGHT SHALE	70.0	165.0	
-			LIMESTONE	8.0	235.0	
-			SANDSTONE	2.0	243.0	
-			SANDY SHALE	80.0	245.0	
-			SHALE	77.0	325.0	
-			COAL	2.0	402.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIGHT SHALE	11.0	404.0	
-			SANDY SHALE	20.0	415.0	
-			SANDSTONE	17.0	435.0	
-			DARK SHALE	8.0	452.0	
-			SHALE	10.0	460.0	
-			CALCAREOUS SHALE	40.0	470.0	
-			DARK SHALE	10.0	510.0	
-			COAL	2.0	520.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	6.0	522.0	
-			DARK SHALE	7.0	528.0	
-			LIMESTONE	2.0	535.0	
-			BLACK SHALE	13.0	537.0	
-			LIMESTONE	3.0	550.0	
-			SANDY SHALE	22.0	553.0	
-			SANDSTONE	35.0	575.0	
-			SHALE	31.0	610.0	
-			LIMESTONE	14.0	641.0	
-			SHALE	47.0	655.0	
-			COAL	1.0	702.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SHALE	132.0	703.0	
-			LIMESTONE	2.0	835.0	
-			COAL	2.0	837.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	4.0	839.0	
-			LIGHT SHALE	7.0	843.0	

MAPID: 18527395000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 1 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.69432 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.546802 DATE COLLECTED: 6 / 17 / 1981
SURFACE ELEVATION (FT.): LOGGED (FT.): 135.0 LOG TYPE: Drillers Log
SOURCE: DAVID SPETH 100162 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	6.0	0.0	
-			SANDSTONE	14.0	6.0	
-			GRAY SHALE	48.0	20.0	
-			SANDSTONE	3.0	68.0	
-			SANDSTONE	23.0	71.0	
-			COAL	2.0	94.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SANDSTONE	39.0	96.0	

MAPID: 18502602000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SE NE
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.709021 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.546812 DATE COLLECTED:
SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 2271.0 LOG TYPE: Electric Log
SOURCE: STRACH MITCHELL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-63.0	CARBONDALE	HERRIN	COAL	3.0	520.0	
-135.0	CARBONDALE	BRIAR HILL	COAL	-	592.0	
-157.0	CARBONDALE	SPRINGFIELD	COAL	4.0	614.0	
-223.0	CARBONDALE	HOUCHIN CREEK	COAL	-	680.0	

MAPID: 18503239000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 3 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.735752 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.548013 DATE COLLECTED: 7 / 0 / 1938

SURFACE ELEVATION (FT.): LOGGED (FT.): 1555.0 LOG TYPE: Drillers Log

SOURCE: J.D. TWOOMEY ESTATE 18 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEV. GIVEN IN LOG. COAL TO 1091'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	81.0	0.0	NO RECORD GIVEN IN LOG
-			SANDSTONE	8.0	81.0	
-			GRAY SHALE	26.0	89.0	
-			GRAY SHALE	18.0	115.0	
-			SANDSTONE	7.0	133.0	
-			GRAY SHALE	23.0	140.0	
-			GRAY SHALE	6.0	163.0	
-			GRAY SHALE	12.0	169.0	
-			SANDSTONE	13.0	181.0	
-			GRAY SHALE	6.0	194.0	
-			SANDSTONE	70.0	200.0	
-			GRAY SHALE	10.0	270.0	
-			GRAY SHALE	36.0	280.0	
-			GRAY SHALE	7.0	316.0	
-			SANDSTONE	15.0	323.0	
-			DARK GRAY SHALE	5.0	338.0	
-			GRAY SHALE	5.0	343.0	
-			SANDSTONE	5.0	348.0	
-			GRAY SHALE	32.0	353.0	
-			GRAY SHALE	5.0	385.0	
-			SHALE	10.0	390.0	
-			LIMESTONE	5.0	400.0	
-			SHALE	20.0	405.0	
-			GRAY SILTSTONE	20.0	425.0	
-			GRAY SHALE	5.0	445.0	
-			DARK GRAY SHALE	56.0	450.0	
-			GRAY SHALE	25.0	506.0	
-			NO RECORD	69.0	531.0	NO RECORD FOR INTERVAL IN LOG
-			GRAY SHALE	18.0	600.0	
-			NO RECORD	7.0	618.0	NO RECORD IN LOG
-			COAL	5.0	625.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			NO RECORD	30.0	630.0	NO RECORD IN LOG
-			SANDSTONE	5.0	660.0	
-			GRAY SHALE	5.0	665.0	
-			NO RECORD	50.0	670.0	NO RECORD IN LOG
-			SANDSTONE	5.0	720.0	
-			NO RECORD	20.0	725.0	NO RECORD IN LOG
-			SANDSTONE	9.0	745.0	

-	GRAY SHALE	10.0	754.0	
-	BLACK SHALE	8.0	764.0	
-	GRAY SHALE	10.0	772.0	
-	SANDSTONE	21.0	782.0	
-	GRAY SHALE	30.0	803.0	
-	COAL	6.0	833.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-	GRAY SHALE	6.0	839.0	
-	NO RECORD	45.0	845.0	NO RECORD IN LOG
-	GRAY SHALE	5.0	900.0	ERROR IN LOG THICKNESS OR DEPTH
-	NO RECORD	50.0	905.0	NO RECORD IN LOG
-	GRAY SHALE	10.0	955.0	
-	SANDSTONE	8.0	965.0	
-	LIMESTONE	9.0	973.0	
-	GRAY SILTSTONE	3.0	982.0	
-	SANDY SHALE	28.0	985.0	
-	GRAY SHALE	37.0	1013.0	
-	SANDSTONE	5.0	1050.0	
-	DARK GRAY SHALE	30.0	1055.0	
-	COAL	6.0	1085.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-	DARK GRAY SHALE	19.0	1091.0	

MAPID: 18503240000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 3 QUARTERS/FOOTAGES: 800' S line, 800' W line of NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.739862

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.548346

DATE COLLECTED: 0 / 0 / 1938

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1560.0

LOG TYPE: Drillers Log

SOURCE: J.D. TOMMEY ESTATE 19

WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 955'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	35.0	0.0	
465.0			SHALE	25.0	35.0	
440.0			DARK SHALE	15.0	60.0	
425.0			LIGHT SHALE	25.0	75.0	
400.0			DARK SHALE	35.0	100.0	
365.0			LIGHT SHALE	20.0	135.0	
345.0			DARK SHALE	35.0	155.0	
310.0			SANDSTONE	90.0	190.0	
220.0			GRAY SHALE	20.0	280.0	
200.0			SHALE	5.0	300.0	
195.0			DARK SHALE	15.0	305.0	
180.0			LIMESTONE	15.0	320.0	
165.0			LIGHT SHALE	70.0	335.0	
95.0			LIMESTONE	7.0	405.0	
88.0			SANDSTONE	12.0	412.0	
76.0			LIGHT SHALE	16.0	424.0	
60.0			GRAY SHALE	35.0	440.0	
25.0			SANDY SHALE	5.0	475.0	
20.0			SHALE	5.0	480.0	
15.0			LIGHT SHALE	30.0	485.0	
-15.0			LIGHT SHALE	80.0	515.0	
-95.0			SHALE	20.0	595.0	
-115.0			LIMESTONE	10.0	615.0	
-125.0			BLACK SHALE	5.0	625.0	
-130.0			GRAY SHALE	20.0	630.0	
-150.0			SANDY SHALE	25.0	650.0	
-175.0			DARK SHALE	22.0	675.0	
-197.0			LIMESTONE	3.0	697.0	
-200.0			COAL	5.0	700.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-205.0			DARK SHALE	60.0	705.0	
-265.0			LIMESTONE	5.0	765.0	
-270.0			DARK SHALE	25.0	770.0	
-295.0			LIMESTONE	5.0	795.0	
-300.0			DARK SHALE	50.0	800.0	
-350.0			DARK SHALE	60.0	850.0	
-410.0			LIMESTONE	3.0	910.0	
-413.0			DARK SHALE	7.0	913.0	
-420.0			LIMESTONE	4.0	920.0	
-424.0			SHALE	6.0	924.0	

-430.0	COAL	4.0	930.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-434.0	DARK SHALE	21.0	934.0	
-455.0	LIGHT SHALE	30.0	955.0	
-485.0	LIMESTONE	5.0	985.0	

MAPID: 18526462000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 3

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.732281

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.547043

DATE COLLECTED: 2 / 1 / 1979

SURFACE ELEVATION (FT.):

LOGGED (FT.): 205.0

LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 83419

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	12.0	0.0	SOIL AND CLAY
-			SANDSTONE	28.0	12.0	
-			SANDY SHALE	21.0	40.0	
-			COAL	3.0	61.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	91.0	64.0	
-			LIMESTONE	10.0	155.0	
-			SANDSTONE	40.0	165.0	

MAPID: 18526619000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 3 QUARTERS/FOOTAGES: SW NW NW
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.741546 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.550898 DATE COLLECTED: 6 / 7 / 1979
SURFACE ELEVATION (FT.): LOGGED (FT.): 240.0 LOG TYPE: Drillers Log
SOURCE: DAVID A. SPETH 86372 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	13.0	0.0	SOIL AND CLAY
-			SANDSTONE	2.0	13.0	
-			SANDY SHALE	15.0	15.0	
-			GRAY SHALE	5.0	30.0	
-			SANDSTONE	10.0	35.0	
-			LIMESTONE	3.0	45.0	
-			GRAY SHALE	4.0	48.0	
-			COAL	2.0	52.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SANDY SHALE	11.0	54.0	
-			DARK SHALE	5.0	65.0	
-			COAL	2.0	70.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	3.0	72.0	
-			GRAY SHALE	10.0	75.0	
-			DARK SHALE	43.0	85.0	
-			COAL	2.0	128.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	130.0	
-			GRAY SHALE	33.0	132.0	
-			DARK SHALE	35.0	165.0	
-			SANDSTONE	40.0	200.0	

MAPID: 18502649000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 150' W line of NE NE SE
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.74443 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.54529 DATE COLLECTED:
SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 1539.0 LOG TYPE: Electric Log
SOURCE: FOREST OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-102.0	CARBONDALE	HERRIN	COAL	2.0	578.0	
-176.0	CARBONDALE	BRIAR HILL	COAL	-	652.0	
-200.0	CARBONDALE	SPRINGFIELD	COAL	3.0	676.0	
-258.0	CARBONDALE	HOUCHIN CREEK	COAL	-	734.0	

MAPID: 18505346000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 4 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.750742 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.545421 DATE COLLECTED: 8 / 2 / 1957

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 57FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	34.0	0.0	
466.0			GRAY SHALE	1.4	34.0	
464.6			COAL	0.3	35.4	
464.2			ARGILACEOUS SHALE	9.2	35.8	
455.1			SANDSTONE	35.4	44.9	GRAY
419.7			GRAY SHALE	5.5	80.3	W/SANDY STREAKS
414.2			SHALE	1.7	85.8	W/SANDY STREAKS; DK GRAY
412.5			FOSSILIFEROUS LIMESTONE	0.6	87.5	GRAY
411.9			BLACK SHALE	0.8	88.1	
411.1			COAL	0.6	88.9	
410.5			CLAYSTONE	10.5	89.5	GRAY

MAPID: 18527080000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 4 QUARTERS/FOOTAGES: SW NE NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.755472 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.551256 DATE COLLECTED: 5 / 9 / 1984
 SURFACE ELEVATION (FT.): LOGGED (FT.): 267.0 LOG TYPE: Drillers Log
 SOURCE: JAMES A. SPETH 112260 WELL TYPE: Oil and Gas Test
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-			CLAY	10.0	0.0
-			SANDY CLAY	25.0	10.0
-			SANDSTONE	4.0	35.0
-			COAL	4.0	39.0
-			LIMESTONE	3.0	43.0
-			SANDSTONE	19.0	46.0
-			SANDY SHALE	10.0	65.0
-			SANDSTONE	35.0	75.0
-			COAL	2.0	110.0
-			LIMESTONE	1.0	112.0
-			COAL	7.0	113.0
-			LIMESTONE	1.0	120.0
-			GRAY SHALE	6.0	121.0
-			SANDSTONE	8.0	127.0
-			DARK SHALE	32.0	135.0
-			COAL	2.0	167.0
-			LIMESTONE	2.0	169.0
-			GRAY SHALE	29.0	171.0
-			SANDY SHALE	10.0	200.0
-			SANDSTONE	40.0	210.0
-			SANDSTONE	17.0	250.0

MAPID: 18501699000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 400' W line of NE NE
 QUADRANGLE: LANCASTER LONGITUDE: -87.764665 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.553365 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1580.0 LOG TYPE: Electric Log
 SOURCE: MURDOCK C H WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	-	649.0
-	CARBONDALE	BRIAR HILL	COAL	-	698.0
-	CARBONDALE	SPRINGFIELD	COAL	3.0	738.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	820.0

MAPID: 18503316000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 5 QUARTERS/FOOTAGES: 200' N line, 200' W line of NW SE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.774588

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.542491

DATE COLLECTED: 0 / 0 / 1938

SURFACE ELEVATION (FT.): 476.0

LOGGED (FT.): 1592.0

LOG TYPE: Drillers Log

SOURCE: J.D. TOOMEY 9

WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 995'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
476.0			UNCONSOLIDATED	58.0	0.0	
418.0			SANDSTONE	23.0	58.0	
395.0			GRAY SHALE	12.0	81.0	
383.0			CALCAREOUS SHALE	8.0	93.0	
375.0			LIGHT SHALE	59.0	101.0	
316.0			SANDSTONE	65.0	160.0	
251.0			SANDSTONE	45.0	225.0	
206.0			DARK SHALE	30.0	270.0	
176.0			LIGHT SHALE	25.0	300.0	
151.0			DARK SHALE	25.0	325.0	
126.0			LIGHT SHALE	61.0	350.0	
65.0			LIMESTONE	8.0	411.0	
57.0			LIGHT SHALE	98.0	419.0	
-41.0			LIMESTONE	5.0	517.0	
-46.0			LIGHT SHALE	33.0	522.0	
-79.0			DARK SHALE	35.0	555.0	
-114.0			DARK SHALE	42.0	590.0	
-156.0			COAL	3.0	632.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-159.0			SHALE	50.0	635.0	
-209.0			SANDSTONE	10.0	685.0	
-219.0			DARK SHALE	17.0	695.0	
-236.0			LIMESTONE	15.0	712.0	
-251.0			SHALE	28.0	727.0	
-279.0			SANDSTONE	30.0	755.0	
-309.0			SHALE	16.0	785.0	
-325.0			LIMESTONE	11.0	801.0	
-336.0			SHALE	13.0	812.0	
-349.0			SHALE	25.0	825.0	
-374.0			COAL	6.0	850.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-380.0			SHALE	69.0	856.0	
-449.0			LIMESTONE	3.0	925.0	
-452.0			SHALE	4.0	928.0	
-456.0			COAL	5.0	932.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-461.0			DARK SHALE	58.0	937.0	

MAPID: 18526620000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 5

QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: LANCASTER

LONGITUDE: -87.771965

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.553362

DATE COLLECTED: 6 / 7 / 1979

SURFACE ELEVATION (FT.):

LOGGED (FT.): 285.0

LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH86373

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
-			SANDSTONE	5.0	15.0	
-			DARK SHALE	5.0	20.0	
-			SANDSTONE	2.0	25.0	
-			GRAY SHALE	3.0	27.0	
-			COAL	5.0	30.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	5.0	35.0	
-			SANDSTONE	20.0	40.0	
-			GRAY SHALE	20.0	60.0	
-			SANDSTONE	25.0	80.0	
-			SANDSTONE	14.0	105.0	
-			DARK SHALE	11.0	119.0	
-			LIMESTONE	30.0	130.0	
-			DARK SHALE	35.0	160.0	
-			LIMESTONE	15.0	195.0	
-			SANDSTONE	30.0	210.0	
-			SANDSTONE	45.0	240.0	

MAPID: 18526621000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 5

QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: LANCASTER

LONGITUDE: -87.76936

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.542026

DATE COLLECTED: 2 / 1 / 1979

SURFACE ELEVATION (FT.):

LOGGED (FT.): 270.0

LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 83418

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	30.0	0.0	SOIL AND CLAY
-			SANDSTONE	4.0	30.0	
-			DARK SHALE	10.0	34.0	
-			COAL	3.0	44.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	47.0	
-			DARK SHALE	8.0	49.0	
-			COAL	3.0	57.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	15.0	60.0	
-			SANDSTONE	20.0	75.0	
-			DARK SHALE	6.0	95.0	
-			COAL	3.0	101.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	26.0	104.0	
-			DARK SHALE	63.0	130.0	
-			LIMESTONE	27.0	193.0	
-			SANDSTONE	50.0	220.0	

MAPID: 18527396000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 5

QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.769568

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.551465

DATE COLLECTED: 5 / 24 / 1982

SURFACE ELEVATION (FT.):

LOGGED (FT.): 240.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH

103567

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	15.0	0.0	
-			SANDY SHALE	15.0	15.0	
-			COAL	4.0	30.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	2.0	34.0	
-			LIMESTONE	2.0	36.0	
-			DARK SHALE	23.0	38.0	
-			COAL	1.0	61.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	8.0	62.0	
-			SANDSTONE	14.0	70.0	
-			COAL	3.0	84.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	87.0	
-			DARK SHALE	16.0	89.0	
-			SANDSTONE	25.0	105.0	
-			DARK SHALE	20.0	130.0	
-			GRAY SHALE	55.0	150.0	
-			SANDSTONE	35.0	205.0	

MAPID: 18527397000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 5

QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: LANCASTER

LONGITUDE: -87.774325

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.553372

DATE COLLECTED: 4 / 11 / 1984

SURFACE ELEVATION (FT.):

LOGGED (FT.): 262.0

LOG TYPE: Drillers Log

SOURCE: JAMES A. SPETH

111848

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	20.0	0.0	
-			SANDY SHALE	9.0	20.0	
-			COAL	4.0	29.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	3.0	33.0	
-			LIMESTONE	4.0	36.0	
-			SANDSTONE	15.0	40.0	
-			SANDY SHALE	10.0	55.0	
-			SANDSTONE	3.0	65.0	
-			SANDSTONE	42.0	68.0	
-			COAL	6.0	110.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	4.0	116.0	
-			LIMESTONE	2.0	120.0	
-			GRAY SHALE	7.0	122.0	
-			SANDSTONE	6.0	129.0	
-			GRAY SHALE	9.0	135.0	
-			DARK SHALE	16.0	144.0	
-			COAL	2.0	160.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	3.0	162.0	
-			DARK SHALE	15.0	165.0	
-			SANDSTONE	45.0	180.0	
-			SANDSTONE	37.0	225.0	

MAPID: 18527398000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 5

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.77181

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.545826

DATE COLLECTED: 7 / 3 / 1984

SURFACE ELEVATION (FT.):

LOGGED (FT.): 255.0

LOG TYPE: Drillers Log

SOURCE: JAMES A. SPETH

113245

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	16.0	0.0	
-			SANDSTONE	9.0	16.0	
-			GRAY SHALE	10.0	25.0	
-			COAL	4.0	35.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	3.0	39.0	
-			LIMESTONE	12.0	42.0	
-			SANDY SHALE	4.0	54.0	
-			GRAY SHALE	5.0	58.0	
-			CALCAREOUS SHALE	2.0	63.0	
-			GRAY SHALE	29.0	65.0	
-			COAL	3.0	94.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	97.0	
-			SANDSTONE	21.0	99.0	
-			LIMESTONE	2.0	120.0	
-			GRAY SHALE	39.0	122.0	
-			SANDY SHALE	21.0	161.0	
-			SANDSTONE	8.0	182.0	
-			SANDSTONE	20.0	190.0	
-			SANDSTONE	45.0	210.0	

MAPID: 18527585000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 5

QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.76725

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.553341

DATE COLLECTED: 7 / 8 / 1986

SURFACE ELEVATION (FT.):

LOGGED (FT.): 245.0

LOG TYPE: Drillers Log

SOURCE: JAMES SPETH

125109

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	14.0	0.0	
-			SANDSTONE	4.0	14.0	
-			COAL	3.0	18.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	3.0	21.0	
-			LIMESTONE	3.0	24.0	
-			SANDY SHALE	7.0	27.0	
-			SANDSTONE	31.0	34.0	
-			LIMESTONE	45.0	65.0	
-			COAL	2.0	110.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	8.0	112.0	
-			LIMESTONE	2.0	120.0	
-			GRAY SHALE	29.0	122.0	
-			COAL	2.0	151.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	5.0	153.0	
-			LIMESTONE	1.0	158.0	
-			SANDY SHALE	8.0	159.0	
-			DARK SHALE	19.0	167.0	
-			SANDY SHALE	22.0	186.0	
-			SANDSTONE	37.0	208.0	

MAPID: 18527652000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 5 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.771849 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.54771 DATE COLLECTED: 9 / 29 / 1987
 SURFACE ELEVATION (FT.): LOGGED (FT.): 255.0 LOG TYPE: Drillers Log
 SOURCE: JAMES SPETH 135563 WELL TYPE: Oil and Gas Test
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	12.0	0.0	
-	MATTOON		SANDSTONE	3.0	12.0	
-	MATTOON		SANDSTONE	4.0	15.0	
-	MATTOON		GRAY SHALE	10.0	19.0	
-	MATTOON	FRIENDSVILLE	COAL	4.0	29.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	3.0	33.0	
-	BOND		LIMESTONE	8.0	36.0	
-	BOND		GRAY SHALE	26.0	44.0	
-	BOND		SANDSTONE	8.0	70.0	
-	BOND		SHALE	27.0	78.0	
-	BOND		LIMESTONE	2.0	105.0	
-	BOND		SHALE	58.0	107.0	
-	BOND		SANDY SHALE	33.0	165.0	
-	BOND		LIMESTONE	7.0	198.0	
-	BOND		SANDY SHALE	10.0	205.0	
-	BOND	MT. CARMEL	SANDSTONE	39.0	215.0	
-	BOND		DARK SHALE	1.0	254.0	

MAPID: 18502500000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.781209 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.544047 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 1600.0 LOG TYPE: Electric Log
 SOURCE: L & M DRLG CO WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-171.0	CARBONDALE	HERRIN	COAL	4.0	626.0	
-210.0	CARBONDALE	BRIAR HILL	COAL	-	665.0	
-237.0	CARBONDALE	SPRINGFIELD	COAL	2.0	692.0	
-335.0	CARBONDALE	HOUCHIN CREEK	COAL	-	790.0	

MAPID: 18505310000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 6 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.786138

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.547873

DATE COLLECTED: 6 / 3 / 1957

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 1 FR

WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE CENTER OF NE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	21.0	0.0	
439.0			SANDSTONE	11.4	21.0	BROWN
427.6			SHALY SANDSTONE	4.3	32.4	GRAY
423.3			SANDY SHALE	15.6	36.7	
407.7			COAL	1.8	52.3	WITH PYRITE
405.9			BLACK SHALE	0.1	54.1	
405.8			COAL	0.2	54.2	
405.7			SANDY CLAYSTONE	2.4	54.3	WITH LIMESTONE NODULES; GRAY
403.2			CLAYSTONE & SANDSTONE	1.3	56.8	

MAPID: 18526123000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 6 QUARTERS/FOOTAGES: 200' N line, 2700' E line

QUADRANGLE: LANCASTER LONGITUDE: -87.789714

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.553885

DATE COLLECTED: 10 / 6 / 1975

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 320.0

LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 1

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0			UNCONSOLIDATED	41.0	0.0	SOIL, CLAY, AND MUD
429.0			GRAY SHALE	24.0	41.0	
405.0			SANDY SHALE	25.0	65.0	
380.0			DARK SHALE	15.0	90.0	
365.0			GRAY SHALE	5.0	105.0	
360.0			COAL	2.0	110.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
358.0			DARK SHALE	27.0	112.0	
331.0			SANDY SHALE	11.0	139.0	
320.0			SANDSTONE	20.0	150.0	
300.0			COAL	1.0	170.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
299.0			DARK SHALE	6.0	171.0	
293.0			SANDY SHALE	5.0	177.0	
288.0			LIMESTONE	3.0	182.0	
285.0			GRAY SHALE	10.0	185.0	
275.0			DARK SHALE	84.0	195.0	
191.0			SANDSTONE	41.0	279.0	

MAPID: 18527399000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 6

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.786138

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.547873

DATE COLLECTED: 11 / 26 / 1980

SURFACE ELEVATION (FT.):

LOGGED (FT.): 245.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH

97624

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	20.0	0.0	
-			SANDSTONE	15.0	20.0	
-			GRAY SHALE	6.0	35.0	
-			COAL	3.0	41.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	44.0	
-			GRAY SHALE	9.0	46.0	
-			SANDSTONE	15.0	55.0	
-			GRAY SHALE	22.0	70.0	
-			SANDSTONE	18.0	92.0	
-			GRAY SHALE	5.0	110.0	
-			LIMESTONE	4.0	115.0	
-			SANDSTONE	26.0	119.0	
-			DARK SHALE	17.0	145.0	
-			LIMESTONE	2.0	162.0	
-			GRAY SHALE	61.0	164.0	
-			SANDSTONE	20.0	225.0	

MAPID: 18527400000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 6 QUARTERS/FOOTAGES: NE SW SE
QUADRANGLE: LANCASTER LONGITUDE: -87.78604 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.542283 DATE COLLECTED: 8 / 4 / 1983
SURFACE ELEVATION (FT.): LOGGED (FT.): 225.0 LOG TYPE: Drillers Log
SOURCE: DAVID SPETH 108601 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	35.0	0.0	SOIL AND CLAY
-			SANDSTONE	10.0	35.0	
-			GRAY SHALE	20.0	45.0	
-			SANDSTONE	5.0	65.0	
-			GRAY SHALE	15.0	70.0	
-			COAL	2.0	85.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	87.0	
-			SANDSTONE	18.0	89.0	
-			DARK SHALE	61.0	107.0	
-			SANDY SHALE	21.0	168.0	
-			SANDSTONE	36.0	189.0	

MAPID: 18502808000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 7 QUARTERS/FOOTAGES: 830' S line, 330' E line of SW NE
QUADRANGLE: LANCASTER LONGITUDE: -87.785899 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.534395 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 1543.0 LOG TYPE: Electric Log
SOURCE: COON CREEK OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-172.0	CARBONDALE	HERRIN	COAL	2.0	598.0	
-237.0	CARBONDALE	BRIAR HILL	COAL	-	663.0	
-262.0	CARBONDALE	SPRINGFIELD	COAL	2.0	688.0	
-344.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0	

MAPID: 18502809000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 8

QUARTERS/FOOTAGES: 1650' N line, 330' E line

QUADRANGLE: LANCASTER

LONGITUDE: -87.762097

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.534509

DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 1539.0

LOG TYPE: Electric Log

SOURCE: WESTFALL, J. C. DRLG.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-164.0	CARBONDALE	HERRIN	COAL	-	604.0	
-224.0	CARBONDALE	BRIAR HILL	COAL	-	664.0	
-247.0	CARBONDALE	SPRINGFIELD	COAL	3.0	687.0	
-320.0	CARBONDALE	HOUCHIN CREEK	COAL	-	760.0	

MAPID: 18503385000C VERSION: 1 PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 8 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.764472 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.532686 DATE COLLECTED:

SURFACE ELEVATION (FT.): 460.9 LOGGED (FT.): 1559.0 LOG TYPE: Drillers Log

SOURCE: ARKANSAS FUEL CO. 1 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 703'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.9			CLAY	10.0	0.0	
450.9			LIGHT SHALE	25.0	10.0	
425.9			LIMESTONE	5.0	35.0	
420.9			DARK SHALE	55.0	40.0	
365.9			LIMESTONE	3.0	95.0	
362.9			LIGHT SHALE	77.0	98.0	
285.9			SANDSTONE	25.0	175.0	
260.9			LIGHT SHALE	10.0	200.0	
250.9			SANDSTONE	32.0	210.0	
218.9			LIGHT SHALE	83.0	242.0	
135.9			LIMESTONE	3.0	325.0	
132.9			LIGHT SHALE	72.0	328.0	
60.9			LIMESTONE	4.0	400.0	
56.9			LIGHT SHALE	3.0	404.0	
53.9			SANDSTONE	6.0	407.0	
47.9			LIGHT SHALE	92.0	413.0	
-44.1			LIMESTONE	3.0	505.0	
-47.1			LIGHT SHALE	110.0	508.0	
-157.1			LIMESTONE	2.0	618.0	
-159.1			COAL	3.0	620.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-162.1			DARK SHALE	72.0	623.0	
-234.1			LIMESTONE	5.0	695.0	
-239.1			COAL	3.0	700.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-242.1			DARK SHALE	5.0	703.0	
-247.1			LIMESTONE	2.0	708.0	

MAPID: 18503401000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 8 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.769204 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.530929 DATE COLLECTED:

SURFACE ELEVATION (FT.): 478.1 LOGGED (FT.): 1569.0 LOG TYPE: Drillers Log

SOURCE: ARKANSAS FUEL CO. 7 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 860'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
478.1			CLAY	15.0	0.0	
463.1			DARK SHALE	20.0	15.0	
443.1			LIMESTONE	4.0	35.0	
439.1			DARK SHALE	11.0	39.0	
428.1			SANDSTONE	10.0	50.0	
418.1			DARK SHALE	15.0	60.0	
403.1			SANDSTONE	25.0	75.0	
378.1			DARK SHALE	50.0	100.0	
328.1			LIMESTONE	3.0	150.0	
325.1			LIGHT SHALE	32.0	153.0	
293.1			SANDSTONE	65.0	185.0	
228.1			LIGHT SHALE	80.0	250.0	
148.1			LIMESTONE	5.0	330.0	
143.1			LIGHT SHALE	75.0	335.0	
68.1			LIMESTONE	7.0	410.0	
61.1			CALCAREOUS SHALE	3.0	417.0	
58.1			SANDSTONE	3.0	420.0	
55.1			LIMESTONE	4.0	423.0	
51.1			LIGHT SHALE	48.0	427.0	
3.1			SANDSTONE	10.0	475.0	
-6.9			LIMESTONE	5.0	485.0	
-11.9			LIGHT SHALE	120.0	490.0	
-131.9			DARK SHALE	40.0	610.0	
-171.9			LIMESTONE	5.0	650.0	
-176.9			LIGHT SHALE	20.0	655.0	
-196.9			SANDSTONE	20.0	675.0	
-216.9			DARK SHALE	10.0	695.0	
-226.9			LIMESTONE	5.0	705.0	
-231.9			DARK SHALE	5.0	710.0	
-236.9			SANDSTONE	60.0	715.0	
-296.9			LIGHT SHALE	65.0	775.0	
-361.9			DARK SHALE	13.0	840.0	
-374.9			COAL	3.0	853.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-377.9			LIMESTONE	2.0	856.0	
-379.9			COAL	2.0	858.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-381.9			DARK SHALE	30.0	860.0	

MAPID: 18505345000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 8 QUARTERS/FOOTAGES: SE SE NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.770964 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.528663 DATE COLLECTED: 8 / 3 / 1957

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 56FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	35.0	0.0	
425.0			SHALY SANDSTONE	4.5	35.0	GRAY
420.5			SANDSTONE	16.1	39.5	GRAY
404.4			GRAY SHALE	23.8	55.6	
380.7			SANDSTONE	5.7	79.3	WITH SHALEY STREAKS; GRAY

MAPID: 18501724000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NW

QUADRANGLE: LANCASTER LONGITUDE: -87.755141 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.532465 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 2364.0 LOG TYPE: Electric Log

SOURCE: AETNA OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-157.0	CARBONDALE	HERRIN	COAL	3.0	612.0	
-205.0	CARBONDALE	BRIAR HILL	COAL	-	660.0	
-245.0	CARBONDALE	SPRINGFIELD	COAL	4.0	700.0	
-310.0	CARBONDALE	HOUCHIN CREEK	COAL	-	765.0	

MAPID: 18527401000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 9 QUARTERS/FOOTAGES: NW NW NW
QUADRANGLE: LANCASTER LONGITUDE: -87.759837 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.538098 DATE COLLECTED: 5 / 3 / 1983
SURFACE ELEVATION (FT.): LOGGED (FT.): 219.0 LOG TYPE: Drillers Log
SOURCE: DAVID SPETH 107007 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	40.0	0.0	CLAY AND MUD
-			GRAY SHALE	5.0	40.0	
-			SANDY SHALE	20.0	45.0	
-			SANDSTONE	5.0	65.0	
-			DARK SHALE	14.0	70.0	
-			COAL	3.0	84.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	3.0	87.0	
-			LIMESTONE	4.0	90.0	
-			DARK SHALE	56.0	94.0	
-			SANDY SHALE	48.0	150.0	
-			SANDSTONE	21.0	198.0	

MAPID: 18500584000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.72975 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.532013 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 2402.0 LOG TYPE: Electric Log
SOURCE: SUN PRODUCTION COMPANY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-112.0	CARBONDALE	HERRIN	COAL	4.0	610.0	
-182.0	CARBONDALE	BRIAR HILL	COAL	-	680.0	
-204.0	CARBONDALE	SPRINGFIELD	COAL	4.0	702.0	
-270.0	CARBONDALE	HOUCHIN CREEK	COAL	-	768.0	

MAPID: 18501386000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 11

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

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.722853

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.535666

DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0

LOGGED (FT.): 2290.0

LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-102.0	CARBONDALE	HERRIN	COAL	2.0	550.0	
-167.0	CARBONDALE	BRIAR HILL	COAL	-	615.0	
-195.0	CARBONDALE	SPRINGFIELD	COAL	3.0	643.0	
-272.0	CARBONDALE	HOUCHIN CREEK	COAL	-	720.0	

MAPID: 18503481000C VERSION: 1 PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 11 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.706523 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.537374 DATE COLLECTED: 7 / 13 / 1926

SURFACE ELEVATION (FT.): 420.7 LOGGED (FT.): 1577.0 LOG TYPE: Drillers Log

SOURCE: EASTERN GULF OIL 1 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 920'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.7			UNCONSOLIDATED	45.0	0.0	SOIL, SAND, AND CLAY
375.7			BLACK SHALE	17.0	45.0	
358.7			SANDSTONE	58.0	62.0	
300.7			DARK SHALE	35.0	120.0	
265.7			LIGHT SHALE	25.0	155.0	
240.7			DARK SHALE	80.0	180.0	
160.7			SANDSTONE	34.0	260.0	
126.7			LIMESTONE	6.0	294.0	
120.7			LIGHT SHALE	70.0	300.0	
50.7			SANDSTONE	15.0	370.0	
35.7			LIGHT SHALE	45.0	385.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-9.3			COAL	3.0	430.0	
-12.3			LIGHT SHALE	41.0	433.0	
-53.3			SANDSTONE	14.0	474.0	
-67.3			DARK SHALE	2.0	488.0	
-69.3			SANDSTONE	75.0	490.0	
-144.3			DARK SHALE	27.0	565.0	
-171.3			LIMESTONE	3.0	592.0	
-174.3			BLACK SHALE	20.0	595.0	
-194.3			SANDSTONE	45.0	615.0	
-239.3			DARK SHALE	10.0	660.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-249.3			SANDSTONE	10.0	670.0	
-259.3			SHALE	70.0	680.0	
-329.3			DARK SHALE	40.0	750.0	
-369.3			SANDSTONE	15.0	790.0	
-384.3			DARK SHALE	64.0	805.0	
-448.3			LIMESTONE	5.0	869.0	
-453.3			LIGHT SHALE	8.0	874.0	
-461.3			LIMESTONE	2.0	882.0	
-463.3			DARK SHALE	28.0	884.0	
-491.3			COAL	4.0	912.0	
-495.3			LIMESTONE	4.0	916.0	

MAPID: 18503483000C VERSION: 1 PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 11 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.712152 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.525425 DATE COLLECTED: 1 / 0 / 1926

SURFACE ELEVATION (FT.): 464.5 LOGGED (FT.): 1560.0 LOG TYPE: Drillers Log

SOURCE: J.W. PRINCE 2 WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
464.5			UNCONSOLIDATED	22.0	0.0	SOIL, SAND, AND CLAY
442.5			BLUE SHALE	7.0	22.0	
435.5			LIMESTONE	2.0	29.0	
433.5			SHALE	104.0	31.0	
329.5			SANDSTONE	33.0	135.0	
296.5			CALCAREOUS SHALE	10.0	168.0	
286.5			LIMESTONE	3.0	178.0	
283.5			DARK SHALE	44.0	181.0	
239.5			SHALE	64.0	225.0	
175.5			LIMESTONE	3.0	289.0	
172.5			SHALE	37.0	292.0	
135.5			LIMESTONE	2.0	329.0	
133.5			LIGHT SHALE	6.0	331.0	
127.5			LIMESTONE	2.0	337.0	
125.5			LIGHT SHALE	51.0	339.0	
74.5			LIMESTONE	3.0	390.0	
71.5			SHALE	5.0	393.0	
66.5			LIMESTONE	22.0	398.0	
44.5			SANDY SHALE	5.0	420.0	
39.5			SHALE	15.0	425.0	
24.5			LIMESTONE	10.0	440.0	
14.5			SANDY SHALE	10.0	450.0	
4.5			SHALE	34.0	460.0	
-29.5			COAL	1.0	494.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-30.5			LIMESTONE	4.0	495.0	
-34.5			SHALE	36.0	499.0	
-70.5			SANDSTONE	19.0	535.0	
-89.5			SHALE	96.0	554.0	
-185.5			LIMESTONE	5.0	650.0	
-190.5			COAL	2.0	655.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-192.5			CALCAREOUS SHALE	3.0	657.0	
-195.5			LIMESTONE	10.0	660.0	

MAPID: 18503484000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 11 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.712152 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.525425 DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.8 LOGGED (FT.): 1563.0 LOG TYPE: Drillers Log

SOURCE: W.M. PRICE 1 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 657'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
469.8			UNCONSOLIDATED	22.0	0.0	
447.8			SHALE	7.0	22.0	
440.8			LIMESTONE	2.0	29.0	
438.8			SHALE	104.0	31.0	
334.8			SANDSTONE	33.0	135.0	
301.8			CALCAREOUS SHALE	10.0	168.0	
291.8			LIMESTONE	3.0	178.0	
288.8			DARK SHALE	27.0	181.0	
251.8			CALCAREOUS SHALE	7.0	218.0	ERROR IN LOG THICKNESS OR DEPTH
244.8			BROWN SHALE	64.0	225.0	
180.8			LIMESTONE	3.0	289.0	
177.8			BROWN SHALE	37.0	292.0	
140.8			LIMESTONE	2.0	329.0	
138.8			LIGHT SHALE	6.0	331.0	
132.8			LIMESTONE	2.0	337.0	
130.8			LIGHT SHALE	51.0	339.0	
79.8			LIMESTONE	3.0	390.0	
76.8			SHALE	5.0	393.0	
71.8			LIMESTONE	27.0	398.0	
44.8			SHALE	20.0	425.0	
24.8			LIMESTONE	5.0	445.0	
19.8			DARK SHALE	10.0	450.0	
9.8			SHALE	34.0	460.0	
-24.2			COAL	1.0	494.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-25.2			LIMESTONE	4.0	495.0	
-29.2			SHALE	36.0	499.0	
-64.2			SANDSTONE	20.0	534.0	ERROR IN LOG THICKNESS OR DEPTH
-84.2			COAL	2.0	554.0	
-86.2			SHALE	19.0	556.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-105.2			SANDSTONE	50.0	575.0	
-155.2			SHALE	25.0	625.0	
-180.2			LIMESTONE	5.0	650.0	
-185.2			COAL	2.0	655.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-187.2			CALCAREOUS SHALE	3.0	657.0	

MAPID: 18501584000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 12 QUARTERS/FOOTAGES: 1030' N line, 349' W line of SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.703945 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.528053 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 2325.0 LOG TYPE: Electric Log

SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-91.0	CARBONDALE	HERRIN	COAL	3.0	552.0
-153.0	CARBONDALE	BRIAR HILL	COAL	-	614.0
-176.0	CARBONDALE	SPRINGFIELD	COAL	4.0	637.0
-255.0	CARBONDALE	HOUCHIN CREEK	COAL	-	716.0

MAPID: 18501734000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 13 QUARTERS/FOOTAGES: 3947' S line, 330' E line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.686838 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.519431 DATE COLLECTED:

SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 1578.0 LOG TYPE: Electric Log

SOURCE: AETNA OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-66.0	CARBONDALE	HERRIN	COAL	3.0	563.0
-136.0	CARBONDALE	BRIAR HILL	COAL	-	633.0
-163.0	CARBONDALE	SPRINGFIELD	COAL	3.0	660.0
-250.0	CARBONDALE	HOUCHIN CREEK	COAL	-	747.0

MAPID: 18503567000C VERSION: 1 PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 13 QUARTERS/FOOTAGES: SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.690513 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.512278 DATE COLLECTED: 0 / 0 / 1924

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 1582.0 LOG TYPE: Drillers Log

SOURCE: MARIETTE CONEDY ETAL 1 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 793'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.0			CLAY	15.0	0.0	
467.0			SHALE	80.0	15.0	
387.0			SANDSTONE	26.0	95.0	
359.0			SHALE	22.0	123.0	ERROR IN LOG THICKNESS OR DEPTH
337.0			SANDSTONE	10.0	145.0	
327.0			DARK SHALE	25.0	155.0	
302.0			SANDSTONE	4.0	180.0	
298.0			DARK SHALE	66.0	184.0	
232.0			LIGHT SHALE	10.0	250.0	
222.0			DARK SHALE	40.0	260.0	
182.0			SANDSTONE	58.0	300.0	
124.0			LIMESTONE	9.0	358.0	
115.0			GRAY SHALE	35.0	367.0	
77.0			SANDSTONE	35.0	405.0	ERROR IN LOG THICKNESS OR DEPTH
42.0			GRAY SHALE	70.0	440.0	
-28.0			SANDSTONE	35.0	510.0	
-63.0			COAL	3.0	545.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-66.0			DARK SHALE	7.0	548.0	
-73.0			SANDSTONE	27.0	555.0	
-100.0			GRAY SHALE	46.0	582.0	
-146.0			LIMESTONE	5.0	628.0	
-151.0			SANDSTONE	77.0	633.0	
-228.0			DARK SHALE	12.0	710.0	
-240.0			LIMESTONE	5.0	722.0	
-245.0			SHALE	22.0	727.0	
-267.0			GRAY SHALE	41.0	749.0	
-308.0			COAL	3.0	790.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-311.0			DARK SHALE	22.0	793.0	

MAPID: 18502492000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 14

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

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.713289

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.522673

DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0

LOGGED (FT.): 1660.0

LOG TYPE: Electric Log

SOURCE: TRIANGLE OIL CO., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-85.0	CARBONDALE	HERRIN	COAL	2.0	540.0	
-153.0	CARBONDALE	BRIAR HILL	COAL	-	608.0	
-175.0	CARBONDALE	SPRINGFIELD	COAL	3.0	630.0	
-259.0	CARBONDALE	HOUCHIN CREEK	COAL	-	714.0	

MAPID: 18503593000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 14

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.715585

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.520842

DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.6

LOGGED (FT.): 2050.0

LOG TYPE: Drillers Log

SOURCE: MILLER AND KARNES

3

WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 622'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.6			UNCONSOLIDATED	50.0	0.0	SOIL AND CLAY
391.6			GRAY SHALE	40.0	50.0	
351.6			SANDSTONE	30.0	90.0	
321.6			LIMESTONE	10.0	120.0	
311.6			SHALE	170.0	130.0	
141.6			LIMESTONE	5.0	300.0	
136.6			SHALE	60.0	305.0	
76.6			SANDY SHALE	70.0	365.0	
6.6			BLUE SHALE	15.0	435.0	
-8.4			SHALE	10.0	450.0	
-18.4			COAL	2.0	460.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-20.4			DARK SHALE	8.0	462.0	
-28.4			SANDY SHALE	20.0	470.0	
-48.4			SANDSTONE	25.0	490.0	
-73.4			SANDY SHALE	15.0	515.0	
-88.4			SANDSTONE	30.0	530.0	
-118.4			SHALE	5.0	560.0	
-123.4			SANDSTONE	25.0	565.0	
-148.4			DARK SHALE	25.0	590.0	
-173.4			LIMESTONE	5.0	615.0	
-178.4			COAL	2.0	620.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-180.4			SHALE	13.0	622.0	
-193.4			SANDSTONE	30.0	635.0	

MAPID: 18502353000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.738875 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.522922 DATE COLLECTED:
SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 2374.0 LOG TYPE: Electric Log
SOURCE: TRIANGLE OIL CO., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-99.0	CARBONDALE	HERRIN	COAL	2.0	548.0
-161.0	CARBONDALE	BRIAR HILL	COAL	-	610.0
-189.0	CARBONDALE	SPRINGFIELD	COAL	3.0	638.0
-268.0	CARBONDALE	HOUCHIN CREEK	COAL	-	717.0

MAPID: 18500116000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: LANCASTER LONGITUDE: -87.752659 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.519552 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2124.0 LOG TYPE: Electric Log
SOURCE: WHITE & BURGARD WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-129.0	CARBONDALE	HERRIN	COAL	3.0	554.0
-175.0	CARBONDALE	BRIAR HILL	COAL	-	600.0
-219.0	CARBONDALE	SPRINGFIELD	COAL	4.0	644.0
-300.0	CARBONDALE	HOUCHIN CREEK	COAL	-	725.0

MAPID: 18500116000C VERSION: 3

PROJECT: CONTROL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: LANCASTER LONGITUDE: -87.752659 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.519552 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2124.0 LOG TYPE: Survey Sample Study
SOURCE: WHITE & BURGARD 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: 18502516000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.743302 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.511858 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 2375.0 LOG TYPE: Electric Log
 SOURCE: KUZMICH, R. W. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-118.0	CARBONDALE	HERRIN	COAL	2.0	591.0	
-190.0	CARBONDALE	BRIAR HILL	COAL	-	663.0	
-221.0	CARBONDALE	SPRINGFIELD	COAL	6.0	694.0	
-279.0	CARBONDALE	HOUCHIN CREEK	COAL	-	752.0	

MAPID: 18527404000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 16 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.759538 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.517913 DATE COLLECTED: 6 / 9 / 1983
 SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 188.0 LOG TYPE: Drillers Log
 SOURCE: JAMES A. SPETH 107504 WELL TYPE: Oil and Gas Test
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			CLAY	12.0	0.0	
413.0			SANDSTONE	8.0	12.0	
405.0			SANDSTONE	7.0	20.0	
398.0			GRAY SHALE	9.0	27.0	
389.0			COAL	2.0	36.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
387.0			GRAY SHALE	12.0	38.0	
375.0			LIMESTONE	2.0	50.0	
373.0			SANDSTONE	6.0	52.0	
367.0			GRAY SHALE	5.0	58.0	
362.0			DARK SHALE	24.0	63.0	
338.0			COAL	2.0	87.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
336.0			LIMESTONE	2.0	89.0	
334.0			DARK SHALE	7.0	91.0	
327.0			SANDY SHALE	12.0	98.0	
315.0			GRAY SHALE	26.0	110.0	
289.0			DARK SHALE	26.0	136.0	
263.0			SANDSTONE	26.0	162.0	

MAPID: 18527405000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 16 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: LANCASTER LONGITUDE: -87.759509 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.516077 DATE COLLECTED: 12 / 7 / 1983
SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 182.0 LOG TYPE: Drillers Log
SOURCE: JAMES A. SPETH 110780 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			CLAY	15.0	0.0	
425.0			SANDSTONE	10.0	15.0	
415.0			GRAY SHALE	10.0	25.0	
405.0			COAL	4.0	35.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
401.0			GRAY SHALE	11.0	39.0	
390.0			SANDSTONE	15.0	50.0	
375.0			SANDY SHALE	15.0	65.0	
360.0			DARK SHALE	20.0	80.0	
340.0			COAL	2.0	100.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
338.0			LIMESTONE	2.0	102.0	
336.0			DARK SHALE	36.0	104.0	
300.0			SANDY SHALE	12.0	140.0	
288.0			SANDSTONE	30.0	152.0	

MAPID: 18502811000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: LANCASTER LONGITUDE: -87.76661 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.518045 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 1536.0 LOG TYPE: Electric Log
SOURCE: MT. CARMEL DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-161.0	CARBONDALE	HERRIN	COAL	2.0	578.0	
-226.0	CARBONDALE	BRIAR HILL	COAL	-	643.0	
-265.0	CARBONDALE	SPRINGFIELD	COAL	5.0	682.0	
-309.0	CARBONDALE	HOUCHIN CREEK	COAL	-	726.0	

MAPID: 18503655000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 17 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.76314 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.522571 DATE COLLECTED: 4 / 28 / 1923

SURFACE ELEVATION (FT.): 463.4 LOGGED (FT.): 1586.0 LOG TYPE: Drillers Log

SOURCE: 1 WELL TYPE: Oil and Gas Test

COMMENT: COAL ONLY TO 591'. NO COMPANY GIVEN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
463.4			CLAY	15.0	0.0	
448.4			SANDSTONE	25.0	15.0	
423.4			SHALE	35.0	40.0	
388.4			SANDSTONE	15.0	75.0	
373.4			SHALE	90.0	90.0	
283.4			SANDSTONE	25.0	180.0	
258.4			SANDSTONE	13.0	205.0	
245.4			SHALE	146.0	218.0	
99.4			LIMESTONE	6.0	364.0	
93.4			SHALE	50.0	370.0	
43.4			COAL	4.0	420.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
39.4			SANDSTONE	31.0	424.0	
8.4			LIGHT SHALE	15.0	455.0	
-6.6			LIMESTONE	2.0	470.0	
-8.6			SHALE	88.0	472.0	
-96.6			SANDSTONE	20.0	560.0	
-116.6			LIGHT SHALE	8.0	580.0	
-124.6			COAL	3.0	588.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-127.6			SANDSTONE	9.0	591.0	
-136.6			SHALE	10.0	600.0	

MAPID: 18502635000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW

QUADRANGLE: LANCASTER LONGITUDE: -87.797756 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.518347 DATE COLLECTED:

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 2299.0 LOG TYPE: Electric Log

SOURCE: GEORGE, T. W. TRUST WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-235.0	CARBONDALE	HERRIN	COAL	2.0	668.0	
-304.0	CARBONDALE	BRIAR HILL	COAL	-	737.0	
-337.0	CARBONDALE	SPRINGFIELD	COAL	5.0	770.0	
-419.0	CARBONDALE	HOUCHIN CREEK	COAL	-	852.0	

MAPID: 18500094000C VERSION: 2

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.785343 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.501941 DATE COLLECTED:

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 585.0 LOG TYPE: Drillers Log

SOURCE: SKILES C.E. 1 WELL TYPE: Dry Hole

COMMENT: COAL DIVISION CONTROL WELL #115

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0			NO RECORD	18.0	0.0	NO RECORD IN LOG
397.0			UNCONSOLIDATED	14.0	18.0	
383.0	BOND		SANDSTONE	1.5	32.0	
381.5	BOND		BLACK SHALE	0.5	33.5	
381.0	BOND	WITT	COAL	1.0	34.0	DO NOT USE FOR RESOURCE CALCULATIONS
380.0	BOND		SHALE	10.0	35.0	
370.0	BOND		SANDSTONE	5.0	45.0	
365.0	BOND		SANDSTONE	2.0	50.0	
363.0	BOND		BLACK SHALE	1.0	52.0	BK SH W/ COAL
362.0	BOND		UNDERCLAY	1.0	53.0	
361.0	BOND		SANDSTONE	3.0	54.0	
358.0	BOND		LIMESTONE	1.0	57.0	
357.0	BOND		GRAY SHALE	5.0	58.0	
352.0	BOND		LIMESTONE	1.0	63.0	
351.0	BOND		DARK GRAY SHALE	16.0	64.0	
335.0	BOND		GRAY SHALE	5.5	80.0	
329.5	BOND	REEL	LIMESTONE	0.5	85.5	
329.0	BOND		BLACK SHALE	2.0	86.0	
327.0	BOND		GRAY SHALE	2.0	88.0	
325.0	BOND		SHALE	5.0	90.0	
320.0	BOND		GRAY SHALE	6.0	95.0	
314.0	BOND		SANDSTONE	21.0	101.0	
293.0	BOND		GRAY SILTSTONE	18.0	122.0	
275.0	BOND	MT. CARMEL	SANDSTONE	5.0	140.0	
270.0	BOND	MT. CARMEL	SANDSTONE	54.0	145.0	
216.0	BOND		BLACK SHALE	1.0	199.0	
215.0	BOND	CARTHAGE	LIMESTONE	2.0	200.0	
213.0	PATOKA		SANDSTONE	15.0	202.0	
198.0	PATOKA		GRAY SHALE	3.0	217.0	
195.0	PATOKA		BLACK SHALE	1.0	220.0	
194.0	PATOKA		BLACK SHALE	9.0	221.0	
185.0	PATOKA		BLACK SHALE	20.0	230.0	
165.0	PATOKA		SANDSTONE	8.0	250.0	
157.0	PATOKA		GRAY SHALE	5.0	258.0	
152.0	PATOKA		DARK GRAY SHALE	5.0	263.0	
147.0	PATOKA	MACOUPIN	LIMESTONE	1.0	268.0	
146.0	PATOKA		DARK GRAY SHALE	4.0	269.0	
142.0	PATOKA		BLACK SHALE	1.0	273.0	
141.0	PATOKA	WOMAC	COAL	3.0	274.0	DO NOT USE FOR RESOURCE CALCULATIONS

138.0	PATOKA		UNDERCLAY	1.0	277.0	
137.0	PATOKA		GRAY SHALE	2.0	278.0	
135.0	PATOKA		DARK GRAY SHALE	5.0	280.0	
130.0	PATOKA		LIMESTONE	2.0	285.0	
128.0	PATOKA		BLACK SHALE	1.0	287.0	
127.0	PATOKA		GRAY SHALE	2.0	288.0	
125.0	PATOKA		SANDSTONE	6.0	290.0	
119.0	PATOKA		LIMESTONE	1.0	296.0	
118.0	PATOKA		SANDSTONE	8.0	297.0	
110.0	PATOKA		GRAY SHALE	5.0	305.0	
105.0	PATOKA		DARK GRAY SHALE	5.0	310.0	
100.0	PATOKA		NO RECORD	3.0	315.0	
97.0	PATOKA		DARK GRAY SHALE	2.0	318.0	
95.0	PATOKA		GRAY SHALE	27.0	320.0	
68.0	PATOKA		BLACK SHALE	1.0	347.0	
67.0	PATOKA		UNDERCLAY	2.0	348.0	
65.0	PATOKA		SANDSTONE	4.0	350.0	
61.0	SHELBURN	WEST FRANKLIN	LIMESTONE	1.0	354.0	
60.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	355.0	
56.0	SHELBURN		BLACK SHALE	1.0	359.0	
55.0	SHELBURN		NO RECORD	18.0	360.0	
37.0	SHELBURN		LIMESTONE	2.0	378.0	
35.0	SHELBURN		NO RECORD	10.0	380.0	
25.0	SHELBURN		SHALE	38.0	390.0	
-13.0	SHELBURN		NO RECORD	2.0	428.0	
-15.0	SHELBURN		SANDSTONE	19.0	430.0	
-34.0	SHELBURN		LIMESTONE	1.0	449.0	
-35.0	SHELBURN		SANDSTONE	4.0	450.0	
-39.0	SHELBURN		SANDSTONE	81.0	454.0	
-120.0	SHELBURN		BLACK SHALE	2.0	535.0	BK SH W/ COAL
-122.0	SHELBURN		GRAY SHALE	2.0	537.0	
-124.0	SHELBURN		SANDSTONE	6.0	539.0	
-130.0	SHELBURN		NO RECORD	5.0	545.0	
-135.0	SHELBURN		SANDSTONE	15.5	550.0	
-150.5	CARBONDALE	ANNA	BLACK SHALE	1.5	565.5	
-152.0	CARBONDALE	HERRIN	COAL	4.0	567.0	DO NOT USE FOR RESOURCE CALCULATIONS
-156.0	CARBONDALE		SANDSTONE	14.0	571.0	

MAPID: 18500094000C VERSION: 3

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.785343 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.501941 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 1622.0 LOG TYPE: Survey Sample Study

SOURCE: SKILES, C. E., INC. 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: 18501765000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line

QUADRANGLE: LANCASTER LONGITUDE: -87.780704 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.509126 DATE COLLECTED:

SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 1650.0 LOG TYPE: Electric Log

SOURCE: CALVERT DRILLING, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-163.0	CARBONDALE	HERRIN	COAL	2.0	606.0
-231.0	CARBONDALE	BRIAR HILL	COAL	-	674.0
-261.0	CARBONDALE	SPRINGFIELD	COAL	2.0	704.0
-339.0	CARBONDALE	HOUCHIN CREEK	COAL	-	782.0

MAPID: 18503685000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.790056 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.498394 DATE COLLECTED: 7 / 24 / 1954

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 1620.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
322.0	BOND	REEL	LIMESTONE	3.0	103.0
285.0	BOND	MT. CARMEL	SANDSTONE	50.0	140.0
150.0	PATOKA	MACOUPIN	LIMESTONE	1.0	275.0
66.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.5	359.0
-113.0	SHELBURN	DANVILLE	COAL	2.5	538.0
-160.0	CARBONDALE	HERRIN	COAL	3.0	585.0
-232.0	CARBONDALE	BRIAR HILL	COAL	1.0	657.0
-255.0	CARBONDALE	SPRINGFIELD	COAL	3.5	680.0
-355.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	780.0
-425.0	CARBONDALE	COLCHESTER	COAL	-	850.0
-475.0	CARBONDALE	DAVIS	COAL	3.5	900.0
-495.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	920.0

MAPID: 18503687000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: LANCASTER LONGITUDE: -87.790179 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.5038 DATE COLLECTED: 8 / 10 / 1954

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 1616.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
308.0	BOND	MT. CARMEL	SANDSTONE	63.0	120.0
236.0	BOND	CARTHAGE	LIMESTONE	10.0	192.0
143.0	PATOKA	MACOUPIN	LIMESTONE	1.5	285.0
63.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.5	365.0
-126.0	SHELBURN	DANVILLE	COAL	2.0	554.0
-176.0	CARBONDALE	HERRIN	COAL	2.8	604.0
-247.0	CARBONDALE	BRIAR HILL	COAL	1.0	675.0
-284.0	CARBONDALE	SPRINGFIELD	COAL	6.0	712.0
-355.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	783.0
-425.0	CARBONDALE	COLCHESTER	COAL	-	853.0
-471.0	CARBONDALE	DEKOVEN	COAL	2.0	899.0
-477.0	CARBONDALE	DAVIS	COAL	3.0	905.0

MAPID: 185234D0001F VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.797414 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.503829 DATE COLLECTED: 0 / 0 / 1927
 SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 39.5 LOG TYPE:
 SOURCE: WELL TYPE: Mine Shaft
 COMMENT: FIELD NOTES FROM LOCAL MINES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0	MATTOON	FRIENDSVILLE	COAL	3.5	36.0	

MAPID: 18527576000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 19 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.797368 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.502047 DATE COLLECTED: 5 / 16 / 1986
 SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 240.0 LOG TYPE: Drillers Log
 SOURCE: JAMES SPETH 123842 WELL TYPE: Oil and Gas Test
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0			CLAY	20.0	0.0	
450.0	MATTOON		SANDSTONE	11.0	20.0	
439.0	MATTOON		GRAY SHALE	4.0	31.0	
435.0	MATTOON	FRIENDSVILLE	COAL	3.0	35.0	DO NOT USE FOR RESOURCE CALCULATIONS
432.0	BOND		LIMESTONE	3.0	38.0	
429.0	BOND		DARK SHALE	9.0	41.0	
420.0	BOND		SANDY SHALE	8.0	50.0	
412.0	BOND		GRAY SHALE	5.0	58.0	
407.0	BOND		SANDSTONE	30.0	63.0	
377.0	BOND		LIMESTONE	1.0	93.0	
376.0	BOND		COAL	1.0	94.0	DO NOT USE FOR RESOURCE CALCULATIONS
375.0	BOND		LIMESTONE	1.0	95.0	
374.0	BOND		DARK SHALE	9.0	96.0	
365.0	BOND	WITT	COAL	7.0	105.0	DO NOT USE FOR RESOURCE CALCULATIONS
358.0	BOND		DARK SHALE	5.0	112.0	
353.0	BOND		GRAY SHALE	8.0	117.0	
345.0	BOND		SANDSTONE	13.0	125.0	
332.0	BOND		SANDY SHALE	14.0	138.0	
318.0	BOND		DARK SHALE	13.0	152.0	
305.0	BOND	MT. CARMEL	SANDSTONE	35.0	165.0	
270.0	BOND	MT. CARMEL	GRAY SHALE	30.0	200.0	
240.0	BOND	MT. CARMEL	SANDSTONE	10.0	230.0	

MAPID: 18500317000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 380' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.768441 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.496468 DATE COLLECTED:
SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2358.0 LOG TYPE: Electric Log
SOURCE: LUTTRELL HOMER WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-136.0	CARBONDALE	HERRIN	COAL	-	550.0
-202.0	CARBONDALE	BRIAR HILL	COAL	-	616.0
-226.0	CARBONDALE	SPRINGFIELD	COAL	3.0	640.0
-316.0	CARBONDALE	HOUCHIN CREEK	COAL	-	730.0

MAPID: 18502231000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE
QUADRANGLE: LANCASTER LONGITUDE: -87.761668 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.507083 DATE COLLECTED: 9 / 13 / 1955
SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 2365.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
276.0	BOND	CARTHAGE	LIMESTONE	7.0	140.0
186.0	PATOKA	MACOUPIN	LIMESTONE	1.0	230.0
99.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	317.0
-92.0	SHELBURN	DANVILLE	COAL	1.8	508.0
-144.0	CARBONDALE	HERRIN	COAL	3.0	560.0
-216.0	CARBONDALE	BRIAR HILL	COAL	1.0	632.0
-237.0	CARBONDALE	SPRINGFIELD	COAL	4.3	653.0
-314.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	730.0
-419.0	CARBONDALE	COLCHESTER	COAL	-	835.0
-432.0	CARBONDALE	DEKOVEN	COAL	2.5	848.0
-449.0	CARBONDALE	DAVIS	COAL	4.0	865.0
-474.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	890.0

MAPID: 18502316000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.763902 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.498186 **DATE COLLECTED:** 1 / 19 / 1956
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2150.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
303.0	BOND	MT. CARMEL	SANDSTONE	25.0	115.0
278.0	BOND	CARTHAGE	LIMESTONE	4.0	140.0
188.0	PATOKA	MACOUPIN	LIMESTONE	1.0	230.0
105.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.5	313.0
-85.0	SHELBURN	DANVILLE	COAL	2.8	503.0
-137.0	CARBONDALE	HERRIN	COAL	3.0	555.0
-200.0	CARBONDALE	BRIAR HILL	COAL	1.0	618.0
-224.0	CARBONDALE	SPRINGFIELD	COAL	3.8	642.0
-310.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	728.0
-407.0	CARBONDALE	COLCHESTER	COAL	-	825.0
-411.0	CARBONDALE	DEKOVEN	COAL	3.0	829.0
-441.0	CARBONDALE	DAVIS	COAL	5.0	859.0
-468.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	886.0

MAPID: 18500611000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.75911 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.496402 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2160.0 **LOG TYPE:** Electric Log
SOURCE: ROBERTSON J R **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-139.0	CARBONDALE	HERRIN	COAL	2.0	557.0
-196.0	CARBONDALE	BRIAR HILL	COAL	-	614.0
-226.0	CARBONDALE	SPRINGFIELD	COAL	4.0	644.0
-312.0	CARBONDALE	HOUCHIN CREEK	COAL	-	730.0

MAPID: 18502813000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 21 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.747845 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.508315 DATE COLLECTED: 6 / 4 / 1954

SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2372.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
336.0	BOND	MT. CARMEL	SANDSTONE	65.0	98.0	
191.0	PATOKA	MACOUPIN	LIMESTONE	1.0	243.0	
104.0	SHELBURN	WEST FRANKLIN	LIMESTONE	3.0	330.0	
-75.0	SHELBURN	DANVILLE	COAL	1.0	509.0	
-136.0	CARBONDALE	HERRIN	SANDSTONE	0.0	570.0	
-204.0	CARBONDALE	BRIAR HILL	COAL	1.0	638.0	
-236.0	CARBONDALE	SPRINGFIELD	COAL	4.0	670.0	
-306.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	740.0	
-416.0	CARBONDALE	COLCHESTER	COAL	-	850.0	
-428.0	CARBONDALE	DEKOVEN	COAL	1.8	862.0	
-433.0	CARBONDALE	LOWER DEKOVEN	COAL	2.0	867.0	
-448.0	CARBONDALE	DAVIS	COAL	5.0	882.0	
-474.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	908.0	

MAPID: 18527640000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 21 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.749967 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.501331 DATE COLLECTED: 7 / 29 / 1987

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: JAMES SPETH 134036 WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	14.0	0.0	
436.0	BOND		SANDSTONE	7.0	14.0	
429.0	BOND		GRAY SHALE	5.0	21.0	
424.0	BOND		COAL	1.0	26.0	DO NOT USE FOR RESOURCE CALCULATIONS
423.0	BOND		GRAY SHALE	22.0	27.0	
401.0	BOND	FLANNIGAN	COAL	1.0	49.0	DO NOT USE FOR RESOURCE CALCULATIONS
400.0	BOND		LIMESTONE	1.0	50.0	
399.0	BOND		GRAY SHALE	17.0	51.0	
382.0	BOND		SANDY SHALE	22.0	68.0	
360.0	BOND	MT. CARMEL	SANDSTONE	35.0	90.0	

MAPID: 18502814000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 22

QUARTERS/FOOTAGES: 990' S line, 330' E line of NE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.724486

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.504662

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2023.0

LOG TYPE: Electric Log

SOURCE: IL OIL CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	2.0	496.0	
-	CARBONDALE	BRIAR HILL	COAL	-	560.0	
-	CARBONDALE	SPRINGFIELD	COAL	3.0	587.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	674.0	

MAPID: 18503726000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 22 QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.731593

GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.508129

DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 1555.0

LOG TYPE: Drillers Log

SOURCE: ADAMS CONNERS OIL CO. 2

WELL TYPE: Unsuccessful or Unknown Results

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.0			CLAY	26.0	0.0	
406.0	BOND		DARK SHALE	34.0	26.0	
372.0	BOND	MT. CARMEL	SANDSTONE	56.0	60.0	
316.0	BOND		DARK SHALE	2.0	116.0	
314.0	BOND	CARTHAGE	LIMESTONE	5.0	118.0	
309.0	PATOKA		DARK SHALE	82.0	123.0	
227.0	PATOKA		LIGHT SHALE	15.0	205.0	
212.0	PATOKA	MACOUPIN	LIMESTONE	2.0	220.0	
210.0	PATOKA		LIGHT SHALE	59.0	222.0	
151.0	SHELBURN	WEST FRANKLIN	LIMESTONE	2.0	281.0	
149.0	SHELBURN	WEST FRANKLIN	GRAY SHALE	2.0	283.0	
147.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	285.0	
142.0	SHELBURN		LIGHT SHALE	45.0	290.0	
97.0	SHELBURN		LIMESTONE	3.0	335.0	
94.0	SHELBURN		DARK SHALE	77.0	338.0	
17.0	SHELBURN		NO RECORD	100.0	415.0	NO RECORD IN LOG
-83.0	CARBONDALE	HERRIN	COAL	2.0	515.0	DO NOT USE FOR RESOURCE CALCULATIONS
-85.0	CARBONDALE		SANDSTONE	8.0	517.0	
-93.0	CARBONDALE		SHALE	5.0	525.0	
-98.0	CARBONDALE		SANDSTONE	55.0	530.0	
-153.0	CARBONDALE		DARK SHALE	31.0	585.0	
-184.0	CARBONDALE		LIMESTONE	3.0	616.0	
-187.0	CARBONDALE	SPRINGFIELD	COAL	3.0	619.0	DO NOT USE FOR RESOURCE CALCULATIONS
-190.0	CARBONDALE		SANDSTONE	43.0	622.0	
-233.0	CARBONDALE		DARK SHALE	35.0	665.0	
-268.0	CARBONDALE		SHALE	50.0	700.0	
-318.0			LIMESTONE	5.0	750.0	
-323.0			GRAY SHALE	12.0	755.0	
-335.0			LIMESTONE	1.0	767.0	
-336.0			BLACK SHALE	92.0	768.0	
-428.0			LIMESTONE	40.0	860.0	
-468.0			SHALE	75.0	900.0	
-543.0			LIMESTONE	5.0	975.0	
-548.0			SHALE	60.0	980.0	

MAPID: 18503732000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.731317 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.499283 DATE COLLECTED:

SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 1700.0 LOG TYPE: Electric Log

SOURCE: CALVERT DRILLING, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-124.0	CARBONDALE	HERRIN	COAL	3.0	637.0
-184.0	CARBONDALE	BRIAR HILL	COAL	-	697.0
-211.0	CARBONDALE	SPRINGFIELD	COAL	5.0	724.0
-281.0	CARBONDALE	HOUCHIN CREEK	COAL	-	794.0

MAPID: 18500615000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.719732 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.500977 DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2327.0 LOG TYPE: Electric Log

SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-71.0	CARBONDALE	HERRIN	COAL	3.0	509.0
-146.0	CARBONDALE	BRIAR HILL	COAL	-	584.0
-174.0	CARBONDALE	SPRINGFIELD	COAL	3.0	612.0
-246.0	CARBONDALE	HOUCHIN CREEK	COAL	-	684.0

MAPID: 18503749000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 23 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.707085 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.503507 DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.3 LOGGED (FT.): 1090.0 LOG TYPE: Drillers Log

SOURCE: WIREBACH & CO. 1 WELL TYPE: Oil and Gas Test

COMMENT: NO YEAR GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.3			CLAY	25.0	0.0	
416.3			SHALE	10.0	25.0	
406.3			SANDSTONE	10.0	35.0	
396.3			SANDSTONE	43.0	45.0	
353.3			DARK SHALE	37.0	88.0	
316.3			SHALE	55.0	125.0	
261.3			SHALE	30.0	180.0	
231.3			SHALE	51.0	210.0	
180.3			LIMESTONE	5.0	261.0	
175.3			SHALE	184.0	266.0	
-8.7			SANDSTONE	32.0	450.0	
-40.7			COAL	2.0	482.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-42.7			LIMESTONE	6.0	484.0	
-48.7			SANDSTONE	28.0	490.0	
-76.7			SHALE	77.0	518.0	
-153.7			SANDSTONE	20.0	595.0	
-173.7			SHALE	45.0	615.0	
-218.7			LIMESTONE	10.0	660.0	
-228.7			SHALE	45.0	670.0	
-273.7			COAL	5.0	715.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-278.7			SHALE	45.0	720.0	
-323.7			LIMESTONE	7.0	765.0	
-330.7			SHALE	83.0	772.0	
-413.7			LIMESTONE	20.0	855.0	
-433.7			SILTSTONE	10.0	875.0	
-443.7			LIMESTONE	10.0	885.0	
-453.7			SHALE	15.0	895.0	
-468.7			COAL	4.0	910.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-472.7			SHALE	4.0	914.0	
-476.7			SHALE	37.0	918.0	
-513.7			SHALE	15.0	955.0	
-528.7			SHALE	20.0	970.0	
-548.7			SANDSTONE	20.0	990.0	
-568.7			SHALE	80.0	1010.0	

MAPID: 18503770000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 23 QUARTERS/FOOTAGES: 924' S line, 600' E line of SE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.706681

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.497233

DATE COLLECTED: 1 / 0 / 1943

SURFACE ELEVATION (FT.): 419.0

LOGGED (FT.): 1082.0

LOG TYPE: Drillers Log

SOURCE: ELMER CAUDELL C-1

WELL TYPE: Oil and Gas Test

COMMENT: NO COAL AFTER 755'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
419.0			CLAY	15.0	0.0	
404.0			SANDSTONE	40.0	15.0	
364.0			SANDSTONE	73.0	55.0	
291.0			GRAY SHALE	70.0	128.0	
221.0			GRAY SHALE	49.0	198.0	
172.0			SANDSTONE	15.0	247.0	
157.0			GRAY SHALE	15.0	262.0	
142.0			LIMESTONE	11.0	277.0	
131.0			GRAY SHALE	27.0	288.0	
104.0			SHALE	6.0	315.0	
98.0			LIMESTONE	4.0	321.0	
94.0			GRAY SHALE	46.0	325.0	
48.0			LIMESTONE	8.0	371.0	
40.0			GRAY SHALE	52.0	379.0	
-12.0			COAL	3.0	431.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-15.0			GRAY SHALE	3.0	434.0	
-18.0			SANDY SHALE	3.0	437.0	
-21.0			SANDSTONE	45.0	440.0	
-66.0			GRAY SHALE	5.0	485.0	
-71.0			SANDSTONE	39.0	490.0	
-110.0			SHALE	1.0	529.0	
-111.0			SILTSTONE	7.0	530.0	
-118.0			GRAY SHALE	5.0	537.0	
-123.0			SANDSTONE	4.0	542.0	
-127.0			GRAY SHALE	16.0	546.0	
-143.0			LIMESTONE	2.0	562.0	
-145.0			GRAY SHALE	7.0	564.0	
-152.0			LIMESTONE	2.0	571.0	
-154.0			SHALE	4.0	573.0	
-158.0			LIMESTONE	1.0	577.0	
-159.0			COAL	2.0	578.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-161.0			GRAY SHALE	5.0	580.0	
-166.0			GRAY SHALE	5.0	585.0	
-171.0			LIMESTONE	1.0	590.0	
-172.0			CALCAREOUS SHALE	1.0	591.0	
-173.0			LIMESTONE	2.0	592.0	
-175.0			GRAY SHALE	46.0	594.0	
-221.0			BLACK SHALE	10.0	640.0	
-231.0			LIMESTONE	5.0	650.0	

-236.0		COAL	3.0	655.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-239.0		UNDERCLAY	4.0	658.0	
-243.0		LIMESTONE	13.0	662.0	
-256.0		GRAY SHALE	10.0	675.0	
-266.0		LIMESTONE	15.0	685.0	
-281.0		GRAY SHALE	21.0	700.0	
-302.0		COAL	5.0	721.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-307.0		GRAY SHALE	29.0	726.0	
-336.0		DARK GRAY SHALE	15.0	755.0	

MAPID: 18503771000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 990' E line of SE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.707997 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.495604 DATE COLLECTED: 1 / 0 / 1943

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 1456.0 LOG TYPE: Drillers Log

SOURCE: ELMER CAUDELL C-2 WELL TYPE: Oil and Gas Test

COMMENT: NO COAL AFTER 805'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
414.0			CLAY	10.0	0.0	
404.0			SANDSTONE	14.0	10.0	
390.0			BLUE SHALE	2.0	24.0	
388.0			SANDSTONE	84.0	26.0	
304.0			SANDSTONE	13.0	110.0	
291.0			GRAY SHALE	61.0	123.0	
230.0			LIMESTONE	5.0	184.0	
225.0			GRAY SHALE	41.0	189.0	
184.0			SANDSTONE	25.0	230.0	
159.0			SANDSTONE	6.0	255.0	
153.0			GRAY SHALE	66.0	261.0	
87.0			DARK SHALE	36.0	327.0	
51.0			SANDSTONE	11.0	363.0	
40.0			DARK SHALE	53.0	374.0	
-13.0			SANDSTONE	7.0	427.0	
-20.0			BLACK SHALE	5.0	434.0	
-25.0			GRAY SHALE	26.0	439.0	
-51.0			SANDSTONE	11.0	465.0	
-62.0			DARK SHALE	10.0	476.0	
-72.0			BLACK SHALE	4.0	486.0	
-76.0			GRAY SHALE	12.0	490.0	
-88.0			SANDSTONE	38.0	502.0	
-126.0			SANDSTONE	9.0	540.0	
-135.0			DARK SHALE	23.0	549.0	
-158.0			LIMESTONE	3.0	572.0	
-161.0			COAL	4.0	575.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-165.0			DARK GRAY SHALE	3.0	579.0	
-168.0			LIMESTONE	2.0	582.0	
-170.0			DARK SHALE	3.0	584.0	
-173.0			LIMESTONE	3.0	587.0	
-176.0			GRAY SHALE	10.0	590.0	
-186.0			DARK SHALE	5.0	600.0	
-191.0			LIMESTONE	1.0	605.0	
-192.0			DARK SHALE	36.0	606.0	
-228.0			BLACK SHALE	5.0	642.0	
-233.0			DARK SHALE	3.0	647.0	
-236.0			SANDSTONE	26.0	650.0	
-262.0			DARK SHALE	10.0	676.0	
-272.0			GRAY SHALE	29.0	686.0	

-301.0	SANDSTONE	5.0	715.0	
-306.0	DARK SHALE	18.0	720.0	
-324.0	COAL	6.0	738.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-330.0	DARK SHALE	4.0	744.0	
-334.0	COAL	2.0	748.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-336.0	DARK SHALE	2.0	750.0	
-338.0	GRAY SHALE	10.0	752.0	
-348.0	LIMESTONE	2.0	762.0	
-350.0	GRAY SHALE	6.0	764.0	
-356.0	DARK SHALE	12.0	770.0	
-368.0	DARK GRAY SHALE	6.0	782.0	
-374.0	DARK SHALE	7.0	788.0	
-381.0	COAL	5.0	795.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-386.0	DARK SHALE	6.0	800.0	
-392.0	CALCAREOUS SHALE	6.0	806.0	
-398.0	GRAY SHALE	6.0	812.0	
-404.0	DARK SHALE	7.0	818.0	

MAPID: 18501783000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 24 **QUARTERS/FOOTAGES:** 858' N line, 330' E line of NW
QUADRANGLE: ST. FRANCISVILLE **LONGITUDE:** -87.696438 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.506291 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 2139.0 **LOG TYPE:** Electric Log
SOURCE: SKILES, C. E., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-70.0	CARBONDALE	HERRIN	COAL	3.0	530.0
-126.0	CARBONDALE	BRIAR HILL	COAL	-	586.0
-146.0	CARBONDALE	SPRINGFIELD	COAL	4.0	606.0
-240.0	CARBONDALE	HOUCHIN CREEK	COAL	-	700.0

MAPID: 18503789000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 24 QUARTERS/FOOTAGES: NE SW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.691665 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.504239 DATE COLLECTED: 5 / 0 / 1926

SURFACE ELEVATION (FT.): 426.9 LOGGED (FT.): 1484.0 LOG TYPE: Drillers Log

SOURCE: W.C. MCBRIDE 1 WELL TYPE: Oil and Gas Test

COMMENT: NO COAL AFTER 950'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.9			CLAY	20.0	0.0	
406.9			UNCONSOLIDATED	35.0	20.0	
371.9			SANDSTONE	46.0	55.0	
325.9			DARK SHALE	3.0	101.0	
322.9			SANDSTONE	3.0	104.0	
319.9			DARK SHALE	33.0	107.0	
286.9			SANDSTONE	20.0	140.0	
266.9			LIGHT SHALE	50.0	160.0	
216.9			DARK SHALE	5.0	210.0	
211.9			GRAY SHALE	10.0	215.0	
201.9			NO RECORD	100.0	225.0	NO RECORD IN LOG
101.9			DARK SHALE	10.0	325.0	
91.9			SANDSTONE	17.0	335.0	
74.9			GRAY SHALE	38.0	352.0	
36.9			SANDSTONE	5.0	390.0	
31.9			LIGHT SHALE	62.0	395.0	
-30.1			COAL	2.0	457.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-32.1			BLACK SHALE	9.0	459.0	
-41.1			SANDSTONE	32.0	468.0	
-73.1			SHALE	15.0	500.0	
-88.1			SANDSTONE	34.0	515.0	
-122.1			SHALE	76.0	549.0	
-198.1			SANDSTONE	25.0	625.0	
-223.1			SANDSTONE	18.0	650.0	
-241.1			LIGHT SHALE	23.0	668.0	
-264.1			LIMESTONE	5.0	691.0	
-269.1			DARK SHALE	94.0	696.0	
-363.1			LIMESTONE	8.0	790.0	
-371.1			LIGHT SHALE	5.0	798.0	
-376.1			DARK SHALE	54.0	803.0	
-430.1			LIGHT SHALE	30.0	857.0	
-460.1			LIMESTONE	5.0	887.0	
-465.1			SHALE	3.0	892.0	
-468.1			LIMESTONE	10.0	895.0	
-478.1			LIGHT SHALE	12.0	905.0	
-490.1			LIMESTONE	3.0	917.0	
-493.1			LIGHT SHALE	18.0	920.0	
-511.1			COAL	2.0	938.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-513.1			LIGHT SHALE	10.0	940.0	

-523.1	SHALE	45.0	950.0
-568.1	LIMESTONE	2.0	995.0

MAPID: 18503790000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 24 QUARTERS/FOOTAGES: NE SW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.691665 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.504239 DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.1 LOGGED (FT.): 1485.0 LOG TYPE: Drillers Log

SOURCE: W.C. MCBRIDE 2 WELL TYPE: Oil and Gas Test

COMMENT: NO COAL AFTER 941'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
442.1			CLAY	47.0	0.0	
395.1			SANDY CLAY	13.0	47.0	
382.1			SANDSTONE	35.0	60.0	
347.1			DARK SHALE	49.0	95.0	
298.1			LIGHT SHALE	126.0	144.0	
172.1			LIMESTONE	2.0	270.0	
170.1			SANDY SHALE	18.0	272.0	
152.1			SANDSTONE	10.0	290.0	
142.1			SANDY SHALE	64.0	300.0	
78.1			DARK SHALE	27.0	364.0	
51.1			LIMESTONE	4.0	391.0	
47.1			LIGHT SHALE	25.0	395.0	
22.1			DARK SHALE	33.0	420.0	
-10.9			COAL	3.0	453.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-13.9			SHALE	12.0	456.0	
-25.9			LIMESTONE	7.0	468.0	
-32.9			SANDSTONE	25.0	475.0	
-57.9			DARK SHALE	5.0	500.0	
-62.9			COAL	2.0	505.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-64.9			DARK SHALE	3.0	507.0	
-67.9			SANDSTONE	24.0	510.0	
-91.9			DARK SHALE	56.0	534.0	
-147.9			LIGHT SHALE	32.0	590.0	
-179.9			SANDSTONE	53.0	622.0	
-232.9			DARK SHALE	10.0	675.0	
-242.9			LIGHT SHALE	55.0	685.0	
-297.9			DARK SHALE	20.0	740.0	
-317.9			LIGHT SHALE	15.0	760.0	
-332.9			BLACK SHALE	15.0	775.0	
-347.9			LIMESTONE	5.0	790.0	
-352.9			LIGHT SHALE	27.0	795.0	
-379.9			LIMESTONE	4.0	822.0	
-383.9			DARK SHALE	7.0	826.0	
-390.9			DARK SHALE	12.0	833.0	
-402.9			LIGHT SHALE	15.0	845.0	
-417.9			DARK SHALE	15.0	860.0	
-432.9			LIGHT SHALE	13.0	875.0	
-445.9			LIMESTONE	2.0	888.0	
-447.9			DARK SHALE	15.0	890.0	

-462.9		SANDSTONE	15.0	905.0	
-477.9		LIGHT SHALE	19.0	920.0	
-496.9		COAL	2.0	939.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-498.9		DARK SHALE	42.0	941.0	
-540.9		LIGHT SHALE	34.0	983.0	

MAPID: 18503797000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 24 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.692847 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.503376 DATE COLLECTED: 10 / 31 / 1925

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 1487.0 LOG TYPE: Drillers Log

SOURCE: W.C. MCBRIDE 1 WELL TYPE: Oil and Gas Test

COMMENT: NO COAL AFTER 1268'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			UNCONSOLIDATED	7.0	0.0	
423.0			SANDSTONE	13.0	7.0	
410.0			SANDSTONE	2.0	20.0	
408.0			SHALE	16.5	22.0	
391.5			SANDSTONE	51.5	38.5	
340.0			SHALE	5.0	90.0	
335.0			SANDSTONE	15.0	95.0	
320.0			CALCAREOUS SHALE	10.0	110.0	
310.0			SHALE	85.0	120.0	
225.0			SANDSTONE	45.0	205.0	
180.0			SHALE	5.0	250.0	
175.0			SANDSTONE	35.0	255.0	
140.0			SHALE	70.0	290.0	
70.0			SHALE	100.0	360.0	
-30.0			LIMESTONE	30.0	460.0	
-60.0			SANDSTONE	10.0	490.0	
-70.0			SHALE	10.0	500.0	
-80.0			LIMESTONE	3.0	510.0	
-83.0			SHALE	47.0	513.0	
-130.0			LIMESTONE	2.0	560.0	
-132.0			COAL	5.0	562.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-137.0			SANDSTONE	53.0	567.0	
-190.0			SANDSTONE	25.0	620.0	
-215.0			SHALE	90.0	645.0	
-305.0			LIMESTONE	5.0	735.0	
-310.0			SHALE	8.0	740.0	
-318.0			COAL	2.0	748.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-320.0			SHALE	50.0	750.0	
-370.0			LIMESTONE	5.0	800.0	
-375.0			SHALE	85.0	805.0	
-460.0			LIMESTONE	17.0	890.0	
-477.0			SANDSTONE	15.0	907.0	
-492.0			SHALE	20.0	922.0	
-512.0			LIMESTONE	5.0	942.0	
-517.0			SHALE	53.0	947.0	
-570.0			SANDSTONE	7.0	1000.0	
-577.0			SHALE	10.0	1007.0	
-587.0			SANDSTONE	20.0	1017.0	
-607.0			SHALE	23.0	1037.0	

-630.0		LIMESTONE	3.0	1060.0	
-633.0		SHALE	32.0	1063.0	
-665.0		SANDSTONE	35.0	1095.0	
-700.0		SHALE	5.0	1130.0	
-705.0		SANDSTONE	5.0	1135.0	
-710.0		SHALE	10.0	1140.0	
-720.0		SANDSTONE	25.0	1150.0	
-745.0		SHALE	7.0	1175.0	
-752.0		SANDSTONE	58.0	1182.0	
-810.0		SHALE	26.0	1240.0	
-836.0		COAL	2.0	1266.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-838.0		LIMESTONE	7.0	1268.0	

MAPID: 18503801000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 24 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.689276 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.504215 DATE COLLECTED: 12 / 0 / 1929

SURFACE ELEVATION (FT.): 435.5 LOGGED (FT.): 1117.5 LOG TYPE: Drillers Log

SOURCE: SILURIAN OIL CO. 7 WELL TYPE: Oil and Gas Test

COMMENT: NO COAL AFTER 900'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.5			CLAY	20.0	0.0	
415.5			SHALE	40.0	20.0	
375.5			SANDSTONE	5.0	60.0	
370.5			SANDSTONE	35.0	65.0	
335.5			DARK SHALE	35.0	100.0	
300.5			SANDSTONE	45.0	135.0	
255.5			SHALE	20.0	180.0	
235.5			BLACK SHALE	40.0	200.0	
195.5			SANDY SHALE	65.0	240.0	
130.5			LIMESTONE	5.0	305.0	
125.5			SHALE	10.0	310.0	
115.5			SHALE	30.0	320.0	
85.5			BLACK SHALE	25.0	350.0	
60.5			SHALE	15.0	375.0	
45.5			LIMESTONE	5.0	390.0	
40.5			SHALE	35.0	395.0	
5.5			SHALE	20.0	430.0	
-14.5			BLACK SHALE	15.0	450.0	
-29.5			LIMESTONE	15.0	465.0	
-44.5			SANDSTONE	10.0	480.0	
-54.5			COAL	3.0	490.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-57.5			SHALE	7.0	493.0	
-64.5			SANDY SHALE	25.0	500.0	
-89.5			SANDSTONE	25.0	525.0	
-114.5			SHALE	25.0	550.0	
-139.5			LIMESTONE	3.0	575.0	
-142.5			COAL	5.0	578.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-147.5			SHALE	2.0	583.0	
-149.5			LIMESTONE	15.0	585.0	
-164.5			SHALE	40.0	600.0	
-204.5			SANDY SHALE	10.0	640.0	
-214.5			LIMESTONE	15.0	650.0	
-229.5			SANDSTONE	5.0	665.0	
-234.5			SHALE	5.0	670.0	
-239.5			DARK SHALE	19.0	675.0	
-258.5			SHALE	21.0	694.0	
-279.5			GRAY SHALE	10.0	715.0	
-289.5			BLACK SHALE	25.0	725.0	
-314.5			COAL	10.0	750.0	CO W/ SOME SHALE STREAKS

-324.5	LIMESTONE	35.0	760.0	
-359.5	BLACK SHALE	5.0	795.0	
-364.5	LIMESTONE	10.0	800.0	
-374.5	SHALE	15.0	810.0	
-389.5	LIMESTONE	2.0	825.0	
-391.5	DARK SHALE	8.0	827.0	
-399.5	SHALE	10.0	835.0	
-409.5	DARK SHALE	20.0	845.0	
-429.5	SHALE	10.0	865.0	
-439.5	GRAY SHALE	10.0	875.0	
-449.5	LIMESTONE	5.0	885.0	
-454.5	COAL	5.0	890.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-459.5	LIMESTONE	5.0	895.0	

MAPID: 18501785000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: EAST MOUNT CARMEL **LONGITUDE:** -87.696245 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.493743 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 403.0 **LOGGED (FT.):** 2073.0 **LOG TYPE:** Electric Log
SOURCE: KINSELL, W. H. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-83.0	CARBONDALE	HERRIN	COAL	-	486.0
-139.0	CARBONDALE	BRIAR HILL	COAL	-	542.0
-164.0	CARBONDALE	SPRINGFIELD	COAL	3.0	567.0
-250.0	CARBONDALE	HOUCHIN CREEK	COAL	-	653.0

MAPID: 18502066000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 26 **QUARTERS/FOOTAGES:** 990' N line, 330' W line
QUADRANGLE: EAST MOUNT CARMEL **LONGITUDE:** -87.721791 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.492098 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 2352.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-84.0	CARBONDALE	HERRIN	COAL	2.0	527.0
-147.0	CARBONDALE	BRIAR HILL	COAL	-	590.0
-170.0	CARBONDALE	SPRINGFIELD	COAL	3.0	613.0
-266.0	CARBONDALE	HOUCHIN CREEK	COAL	-	709.0

MAPID: 18502484000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 27

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

QUADRANGLE: EAST MOUNT CARMEL

LONGITUDE: -87.728704

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.48477

DATE COLLECTED:

SURFACE ELEVATION (FT.): 399.0

LOGGED (FT.): 2331.0

LOG TYPE: Electric Log

SOURCE: TRIANGLE OIL CO., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-104.0	CARBONDALE	HERRIN	COAL	3.0	503.0	
-161.0	CARBONDALE	BRIAR HILL	COAL	-	560.0	
-183.0	CARBONDALE	SPRINGFIELD	COAL	4.0	582.0	
-284.0	CARBONDALE	HOUCHIN CREEK	COAL	-	683.0	

MAPID: 18503843000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 27 QUARTERS/FOOTAGES: 600' S line, 120' E line of NW SW

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.737347 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.485582 DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 1500.0 LOG TYPE: Drillers Log

SOURCE: PATTON OIL CO. 1 WELL TYPE: Dry Hole

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
400.0			UNCONSOLIDATED	60.0	0.0	
340.0	BOND	MT. CARMEL	SANDSTONE	70.0	60.0	
270.0	PATOKA		DARK SHALE	20.0	130.0	
250.0	PATOKA		LIGHT SHALE	10.0	150.0	
240.0	PATOKA		SANDY SHALE	40.0	160.0	
200.0	PATOKA		DARK SHALE	64.0	200.0	
136.0	SHELBURN	WEST FRANKLIN	LIMESTONE	13.0	264.0	
123.0	SHELBURN		LIGHT SHALE	45.0	277.0	
78.0	SHELBURN		COAL	2.0	322.0	DO NOT USE FOR RESOURCE CALCULATIONS
76.0	SHELBURN		LIMESTONE	5.0	324.0	
71.0	SHELBURN		DARK SHALE	56.0	329.0	
15.0	SHELBURN		LIMESTONE	3.0	385.0	
12.0	SHELBURN		CALCAREOUS SHALE	57.0	388.0	
-45.0	SHELBURN	DANVILLE	COAL	2.0	445.0	DO NOT USE FOR RESOURCE CALCULATIONS
-47.0	SHELBURN		CALCAREOUS SHALE	13.0	447.0	
-60.0	SHELBURN		GRAY SHALE	23.0	460.0	
-83.0	CARBONDALE	HERRIN	COAL	3.0	483.0	DO NOT USE FOR RESOURCE CALCULATIONS
-86.0	CARBONDALE		GRAY SHALE	14.0	486.0	
-100.0	CARBONDALE		SANDSTONE	25.0	500.0	
-125.0	CARBONDALE		GRAY SHALE	35.0	525.0	
-160.0	CARBONDALE		LIMESTONE	4.0	560.0	
-164.0	CARBONDALE	SPRINGFIELD	COAL	4.0	564.0	DO NOT USE FOR RESOURCE CALCULATIONS
-168.0	CARBONDALE		GRAY SHALE	12.0	568.0	
-180.0	CARBONDALE		SANDSTONE	60.0	580.0	
-240.0	CARBONDALE		GRAY SHALE	39.0	640.0	
-279.0	CARBONDALE		LIMESTONE	4.0	679.0	
-283.0	CARBONDALE		SHALE	27.0	683.0	
-310.0	CARBONDALE		SANDSTONE	20.0	710.0	
-330.0	CARBONDALE		SHALE	30.0	730.0	

MAPID: 18503854000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 27

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: EAST MOUNT CARMEL

LONGITUDE: -87.738093

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.484839

DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 400.0

LOGGED (FT.): 1496.0

LOG TYPE: Drillers Log

SOURCE: PATTON OIL CO. 1

WELL TYPE: Producer-Oil

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
400.0			CLAY	20.0	0.0	
380.0	BOND	MT. CARMEL	SANDSTONE	33.0	20.0	
347.0	BOND	MT. CARMEL	SANDSTONE	64.0	53.0	
283.0	PATOKA		GRAY SHALE	36.0	117.0	
247.0	PATOKA		SANDY SHALE	10.0	153.0	
237.0	PATOKA		GRAY SHALE	97.0	163.0	
140.0	PATOKA		COAL	2.0	260.0	DO NOT USE FOR RESOURCE CALCULATIONS
138.0	PATOKA		SHALE	5.0	262.0	
133.0	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	267.0	
113.0	SHELBURN		GRAY SHALE	103.0	287.0	
10.0	SHELBURN		LIMESTONE	3.0	390.0	
7.0	SHELBURN		GRAY SHALE	10.0	393.0	
-3.0	SHELBURN		CALCAREOUS SHALE	12.0	403.0	
-15.0	SHELBURN		SHALE	42.0	415.0	
-57.0	SHELBURN		LIMESTONE	13.0	457.0	
-70.0	SHELBURN		SHALE	13.0	470.0	
-83.0	CARBONDALE	HERRIN	COAL	2.0	483.0	DO NOT USE FOR RESOURCE CALCULATIONS
-85.0	CARBONDALE		SHALE	12.0	485.0	
-97.0	CARBONDALE		SANDSTONE	33.0	497.0	
-130.0	CARBONDALE		SHALE	53.0	530.0	
-183.0	CARBONDALE	BRIAR HILL	COAL	2.0	583.0	DO NOT USE FOR RESOURCE CALCULATIONS
-185.0	CARBONDALE		SANDSTONE	30.0	585.0	
-215.0	CARBONDALE	SPRINGFIELD	COAL	1.0	615.0	DO NOT USE FOR RESOURCE CALCULATIONS
-216.0	CARBONDALE		DARK SHALE	24.0	616.0	
-240.0	CARBONDALE		SANDSTONE	45.0	640.0	
-285.0	CARBONDALE		DARK SHALE	25.0	685.0	
-310.0	CARBONDALE		SANDSTONE	10.0	710.0	
-320.0	CARBONDALE		SHALE	67.0	720.0	
-387.0	CARBONDALE		DARK SHALE	31.0	787.0	
-418.0	CARBONDALE	COLCHESTER	COAL	2.0	818.0	DO NOT USE FOR RESOURCE CALCULATIONS
-420.0	CARBONDALE		DARK SHALE	5.0	820.0	
-425.0	CARBONDALE		SANDSTONE	10.0	825.0	
-435.0			DARK SHALE	45.0	835.0	
-480.0			LIMESTONE	15.0	880.0	
-495.0			GRAY SHALE	5.0	895.0	
-500.0			LIMESTONE	32.0	900.0	
-532.0			LIMESTONE	6.0	932.0	
-538.0			DARK SHALE	92.0	938.0	
-630.0			SANDSTONE	5.0	1030.0	

-635.0	BLACK SHALE	15.0	1035.0	
-650.0	SANDSTONE	15.0	1050.0	
-665.0	SANDSTONE	17.0	1065.0	
-682.0	LIMESTONE	5.0	1082.0	
-687.0	DARK SHALE	53.0	1087.0	
-740.0	SANDSTONE	10.0	1140.0	
-750.0	SANDSTONE	15.0	1150.0	
-765.0	BLACK SHALE	70.0	1165.0	
-835.0	CALCAREOUS SHALE	45.0	1235.0	
-880.0	DARK SHALE	10.0	1280.0	
-890.0	SANDSTONE	8.0	1290.0	
-898.0	COAL	2.0	1298.0	DO NOT USE FOR RESOURCE CALCULATIONS
-900.0	SHALE	25.0	1300.0	

MAPID: 18500620000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 28 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.758869 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.485116 DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2033.0 LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-136.0	CARBONDALE	HERRIN	COAL	4.0	556.0
-198.0	CARBONDALE	BRIAR HILL	COAL	-	618.0
-223.0	CARBONDALE	SPRINGFIELD	COAL	4.0	643.0
-310.0	CARBONDALE	HOUCHIN CREEK	COAL	-	730.0

MAPID: 18502468000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 28 QUARTERS/FOOTAGES: 990' N line, 330' W line of SE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.74966 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.485021 DATE COLLECTED: 9 / 20 / 1956

SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 2066.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
187.0	PATOKA	MACOUPIN	LIMESTONE	1.0	232.0
96.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	323.0
-99.0	SHELBURN	DANVILLE	COAL	3.0	518.0
-141.0	CARBONDALE	HERRIN	COAL	3.0	560.0
-196.0	CARBONDALE	BRIAR HILL	COAL	1.0	615.0
-222.0	CARBONDALE	SPRINGFIELD	COAL	3.0	641.0
-299.0	CARBONDALE	HOUCHIN CREEK	COAL	0.8	718.0
-401.0	CARBONDALE	COLCHESTER	COAL	-	820.0
-411.0	CARBONDALE	DEKOVEN	COAL	0.5	830.0
-419.0	CARBONDALE	LOWER DEKOVEN	COAL	1.2	838.0
-441.0	CARBONDALE	DAVIS	COAL	4.0	860.0
-471.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	890.0

MAPID: 18502503000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.765954 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.485291 DATE COLLECTED: 10 / 17 / 1956

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2074.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
190.0	PATOKA	MACOUPIN	LIMESTONE	1.7	230.0
101.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.5	319.0
-90.0	SHELBURN	DANVILLE	COAL	2.0	510.0
-132.0	CARBONDALE	HERRIN	COAL	4.0	552.0
-190.0	CARBONDALE	BRIAR HILL	COAL	1.0	610.0
-213.0	CARBONDALE	SPRINGFIELD	COAL	3.0	633.0
-306.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	726.0
-395.0	CARBONDALE	COLCHESTER	COAL	-	815.0
-447.0	CARBONDALE	DAVIS	COAL	4.0	867.0
-487.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	907.0

MAPID: 18502518000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 990' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775546 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.481898 DATE COLLECTED:
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2411.0 LOG TYPE: Electric Log
SOURCE: FISHER, CHARLES E., JR. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-137.0	CARBONDALE	HERRIN	COAL	2.0	545.0	
-204.0	CARBONDALE	BRIAR HILL	COAL	-	612.0	
-226.0	CARBONDALE	SPRINGFIELD	COAL	3.0	634.0	
-320.0	CARBONDALE	HOUCHIN CREEK	COAL	-	728.0	

MAPID: 18527573000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 29 QUARTERS/FOOTAGES: SE SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775447 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.481896 DATE COLLECTED: 5 / 11 / 1986
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log
SOURCE: JAMES SPETH 123021 WELL TYPE: Oil and Gas Test
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	14.0	0.0	
466.0	BOND		SANDSTONE	2.0	14.0	
464.0	BOND		SANDY SHALE	6.0	16.0	
458.0	BOND		SANDSTONE	10.0	22.0	
448.0	BOND		GRAY SHALE	18.0	32.0	
430.0	BOND	FLANNIGAN	COAL	2.0	50.0	DO NOT USE FOR RESOURCE CALCULATIONS
428.0	BOND		LIMESTONE	1.0	52.0	
427.0	BOND		GRAY SHALE	7.0	53.0	
420.0	BOND	MT. CARMEL	SANDSTONE	11.0	60.0	
409.0	BOND	MT. CARMEL	COAL	1.0	71.0	DO NOT USE FOR RESOURCE CALCULATIONS
408.0	BOND	MT. CARMEL	SANDSTONE	3.0	72.0	
405.0	BOND	MT. CARMEL	SANDSTONE	45.0	75.0	

MAPID: 18501538000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 30 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789981 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.48743 DATE COLLECTED: 10 / 22 / 1948
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 1626.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
386.0	BOND	WITT	COAL	1.0	66.0
332.0	BOND	REEL	LIMESTONE	1.0	120.0
320.0	BOND	MT. CARMEL	SANDSTONE	92.0	132.0
149.0	PATOKA	MACOUPIN	LIMESTONE	1.5	303.0
62.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	390.0
-122.0	SHELBURN	DANVILLE	COAL	2.8	574.0
-172.0	CARBONDALE	HERRIN	COAL	3.7	624.0
-226.0	CARBONDALE	BRIAR HILL	COAL	1.5	678.0
-250.0	CARBONDALE	SPRINGFIELD	COAL	3.6	702.0
-357.0	CARBONDALE	HOUCHIN CREEK	COAL	0.8	809.0
-376.0	CARBONDALE	SURVANT	COAL	1.5	828.0
-430.0	CARBONDALE	COLCHESTER	COAL	-	882.0
-485.0	CARBONDALE	DAVIS	COAL	1.0	937.0
-507.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	959.0

MAPID: 18501810000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.780214 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.483809 DATE COLLECTED:
SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 2355.0 LOG TYPE: Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-133.0	CARBONDALE	HERRIN	COAL	3.0	552.0
-197.0	CARBONDALE	BRIAR HILL	COAL	-	616.0
-219.0	CARBONDALE	SPRINGFIELD	COAL	3.0	638.0
-321.0	CARBONDALE	HOUCHIN CREEK	COAL	-	740.0

MAPID: 18526570000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1N 12W

SECTION: 30

QUARTERS/FOOTAGES: 660' N line, 20' E line of NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.788885

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.493884

DATE COLLECTED: 6 / 27 / 1980

SURFACE ELEVATION (FT.): 418.0

LOGGED (FT.): 0.0

LOG TYPE: Nuclear Log

SOURCE: SMALL & HIGGINS

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
343.0	BOND	REEL	LIMESTONE	1.0	75.0
304.0	BOND	MT. CARMEL	SANDSTONE	83.0	114.0
166.0	PATOKA	MACOUPIN	LIMESTONE	1.0	252.0
81.0	SHELBURN	WEST FRANKLIN	LIMESTONE	3.0	337.0
-102.0	SHELBURN	DANVILLE	COAL	1.0	520.0
-148.0	CARBONDALE	HERRIN	COAL	4.0	566.0
-216.0	CARBONDALE	BRIAR HILL	COAL	1.5	634.0
-244.0	CARBONDALE	SPRINGFIELD	COAL	6.0	662.0
-348.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	766.0
-469.0	CARBONDALE	SURVANT	COAL	3.0	887.0
-419.0	CARBONDALE	COLCHESTER	COAL	0.8	837.0
-469.0	CARBONDALE	DAVIS	COAL	5.0	887.0
-494.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	912.0

MAPID: 18500330000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 31 QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789788

GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.47641

DATE COLLECTED: 0 / 0 / 1938

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 2408.0

LOG TYPE: Drillers Log

SOURCE: HARRY T. MARTIN 1

WELL TYPE: Dry Hole

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
446.0			UNCONSOLIDATED	53.0	0.0	CLAY, SAND, AND GRAVEL
393.0	BOND		DARK SHALE	11.0	53.0	
382.0	BOND		SANDSTONE	23.0	64.0	
359.0	BOND		DARK SHALE	29.0	87.0	
330.0	BOND	MT. CARMEL	SANDSTONE	92.0	116.0	
238.0	PATOKA		GRAY SHALE	17.0	208.0	
221.0	PATOKA		LIGHT SHALE	20.0	225.0	
201.0	PATOKA		LIGHT SHALE	3.0	245.0	
198.0	PATOKA		DARK SHALE	22.0	248.0	
176.0	PATOKA	MACOUPIN	LIMESTONE	2.0	270.0	
174.0	PATOKA		SANDSTONE	8.0	272.0	
166.0	PATOKA		DARK SHALE	17.0	280.0	
149.0	PATOKA		COAL	1.0	297.0	DO NOT USE FOR RESOURCE CALCULATIONS
148.0	PATOKA		DARK SHALE	22.0	298.0	
126.0	PATOKA		SHALE	23.0	320.0	
103.0	PATOKA		DARK SHALE	27.0	343.0	
76.0	PATOKA		LIGHT SHALE	7.0	370.0	
69.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	377.0	
64.0	SHELBURN	WEST FRANKLIN	GRAY SHALE	2.0	382.0	
62.0	SHELBURN	WEST FRANKLIN	SANDSTONE	3.0	384.0	
59.0	SHELBURN	WEST FRANKLIN	CALCAREOUS SHALE	3.0	387.0	
56.0	SHELBURN	WEST FRANKLIN	LIMESTONE	10.0	390.0	
46.0	SHELBURN	WEST FRANKLIN	SANDSTONE	10.0	400.0	
36.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	410.0	
31.0	SHELBURN		LIGHT SHALE	10.0	415.0	
21.0	SHELBURN		DARK GRAY SHALE	5.0	425.0	
16.0	SHELBURN		DARK SHALE	5.0	430.0	
11.0	SHELBURN		SANDSTONE	35.0	435.0	
-24.0	SHELBURN		DARK SHALE	30.0	470.0	
-54.0	SHELBURN		LIGHT SHALE	14.0	500.0	
-68.0	SHELBURN		SANDSTONE	16.0	514.0	
-84.0	SHELBURN		SANDY SHALE	12.0	530.0	
-96.0	SHELBURN		LIGHT SHALE	33.0	542.0	
-129.0	SHELBURN	DANVILLE	COAL	2.0	575.0	DO NOT USE FOR RESOURCE CALCULATIONS
-131.0	SHELBURN		LIGHT SHALE	8.0	577.0	
-139.0	SHELBURN		LIMESTONE	7.0	585.0	
-146.0	SHELBURN		LIGHT SHALE	10.0	592.0	
-156.0	SHELBURN		DARK SHALE	4.0	602.0	
-160.0	SHELBURN	BRERETON	LIMESTONE	1.0	606.0	

-161.0	CARBONDALE	HERRIN	COAL	4.0	607.0	DO NOT USE FOR RESOURCE CALCULATIONS
-165.0	CARBONDALE		DARK SHALE	6.0	611.0	
-171.0	CARBONDALE		SANDSTONE	49.0	617.0	
-220.0	CARBONDALE		DARK SHALE	13.0	666.0	
-233.0	CARBONDALE	SPRINGFIELD	COAL	4.0	679.0	DO NOT USE FOR RESOURCE CALCULATIONS
-237.0	CARBONDALE		DARK SHALE	12.0	683.0	
-249.0	CARBONDALE		LIMESTONE	3.0	695.0	
-252.0	CARBONDALE		BLACK SHALE	8.0	698.0	
-260.0	CARBONDALE		LIMESTONE	7.0	706.0	
-267.0	CARBONDALE		LIGHT SHALE	28.0	713.0	
-295.0	CARBONDALE		SANDY SHALE	32.0	741.0	
-327.0	CARBONDALE		SANDSTONE	5.0	773.0	
-332.0	CARBONDALE		LIMESTONE	3.0	778.0	
-335.0	CARBONDALE		LIGHT SHALE	14.0	781.0	
-349.0	CARBONDALE	HOUCHIN CREEK	COAL	5.0	795.0	DO NOT USE FOR RESOURCE CALCULATIONS
-354.0	CARBONDALE		LIGHT SHALE	17.0	800.0	
-371.0	CARBONDALE		DARK SHALE	9.0	817.0	
-380.0	CARBONDALE	SURVANT	COAL	2.0	826.0	DO NOT USE FOR RESOURCE CALCULATIONS
-382.0			DARK SHALE	52.0	828.0	
-434.0			SANDSTONE	36.0	880.0	
-470.0			DARK SHALE	3.0	916.0	
-473.0			COAL	6.0	919.0	DO NOT USE FOR RESOURCE CALCULATIONS
-479.0			LIMESTONE	4.0	925.0	
-483.0			LIGHT SHALE	6.0	929.0	
-489.0			LIMESTONE	5.0	935.0	
-494.0			LIMESTONE	11.0	940.0	
-505.0			DARK SHALE	6.0	951.0	
-511.0			LIMESTONE	21.0	957.0	
-532.0			SANDSTONE	28.0	978.0	
-560.0			DARK SHALE	4.0	1006.0	
-564.0			COAL	1.0	1010.0	DO NOT USE FOR RESOURCE CALCULATIONS

MAPID: 18501599000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 31 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787305 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.469061 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2441.0 LOG TYPE: Electric Log
SOURCE: ASHLAND OIL&REF. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-166.0	CARBONDALE	HERRIN	COAL	3.0	592.0
-232.0	CARBONDALE	BRIAR HILL	COAL	-	658.0
-252.0	CARBONDALE	SPRINGFIELD	COAL	4.0	678.0
-344.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0

MAPID: 18501821000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 31 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784909 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.476412 DATE COLLECTED: 9 / 9 / 1949
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 1492.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
313.0	BOND	MT. CARMEL	SANDSTONE	80.0	130.0
159.0	PATOKA	MACOUPIN	LIMESTONE	1.0	284.0
74.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	369.0
-115.0	SHELBURN	DANVILLE	COAL	1.8	558.0
-151.0	CARBONDALE	HERRIN	COAL	3.0	594.0
-219.0	CARBONDALE	BRIAR HILL	COAL	1.0	662.0
-238.0	CARBONDALE	SPRINGFIELD	COAL	3.0	681.0
-339.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	782.0
261.0	CARBONDALE	SURVANT	COAL	0.8	182.0
-410.0	CARBONDALE	COLCHESTER	COAL	-	853.0
-459.0	CARBONDALE	DAVIS	COAL	4.5	902.0
-495.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	938.0

MAPID: 18505314000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 31 QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.785024 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.480122 DATE COLLECTED: 6 / 7 / 1957

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 5FR WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE NWNWSW

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			UNCONSOLIDATED	10.0	0.0	
475.0			SANDSTONE	15.7	10.0	BROWN
459.3			ARGILACEOUS SHALE	4.2	25.7	
455.2			COAL	1.2	29.8	
454.0			CARBONACEOUS SHALE	0.4	31.0	
453.6			COAL	0.3	31.4	
453.3			CARBONACEOUS SHALE	0.6	31.7	
452.7			SANDY SHALE	1.7	32.3	
451.1			CLAYSTONE	0.6	33.9	WITH LIMESTONE NODULES; GRAY
450.5			SHALY LIMESTONE	2.3	34.5	GRAY
448.2			SANDY SHALE	7.6	36.8	
440.7			COAL	0.3	44.3	
440.4			GRAY SHALE	5.7	44.6	WITH SANDY STREAKS
434.7			COAL	0.3	50.3	
434.4			GRAY SHALE	5.3	50.6	WITH SANDY STREAKS
429.2			SANDSTONE	30.0	55.8	WITH DARK GRAY SHALE STREAKS; GRAY
399.2			GRAY SHALE	6.0	85.8	
393.2			SHALY LIMESTONE	1.3	91.8	GRAY
391.9			BLACK SHALE	0.7	93.1	
391.2			COAL	0.4	93.8	
390.8			CLAYSTONE	5.8	94.2	WITH LIMESTONE NODULES; GRAY

MAPID: 18527662000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 31 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.797035 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.476384 DATE COLLECTED: 11 / 17 / 1987

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 258.0 LOG TYPE: Drillers Log

SOURCE: JAMES SPETH 137329 WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	14.0	0.0	
466.0	MATTOON		SANDSTONE	5.0	14.0	
461.0	MATTOON		LIMESTONE	2.0	19.0	
459.0	MATTOON		SANDSTONE	5.0	21.0	
454.0	MATTOON		SANDY SHALE	2.0	26.0	
452.0	MATTOON		DARK SHALE	2.0	28.0	
450.0	MATTOON	FRIENDSVILLE	COAL	5.0	30.0	DO NOT USE FOR RESOURCE CALCULATIONS
445.0	BOND		LIMESTONE	5.0	35.0	
440.0	BOND		SANDSTONE	5.0	40.0	
435.0	BOND		COAL	1.0	45.0	DO NOT USE FOR RESOURCE CALCULATIONS
434.0	BOND		SANDY SHALE	15.0	46.0	
419.0	BOND		SANDSTONE	14.0	61.0	
405.0	BOND		DARK SHALE	5.0	75.0	
400.0	BOND		SANDSTONE	8.0	80.0	
392.0	BOND		DARK SHALE	8.0	88.0	
384.0	BOND	WITT	COAL	1.0	96.0	DO NOT USE FOR RESOURCE CALCULATIONS
383.0	BOND		LIMESTONE	1.0	97.0	
382.0	BOND	WITT	COAL	1.0	98.0	DO NOT USE FOR RESOURCE CALCULATIONS
381.0	BOND		GRAY SHALE	3.0	99.0	
378.0	BOND		LIMESTONE	5.0	102.0	
373.0	BOND		SANDY SHALE	15.0	107.0	
358.0	BOND		COAL	1.0	122.0	DO NOT USE FOR RESOURCE CALCULATIONS
357.0	BOND		DARK SHALE	29.0	123.0	
328.0	BOND	FLANNIGAN	COAL	2.0	152.0	DO NOT USE FOR RESOURCE CALCULATIONS
326.0	BOND		LIMESTONE	3.0	154.0	
323.0	BOND		GRAY SHALE	12.0	157.0	
311.0	BOND	MT. CARMEL	SANDSTONE	89.0	169.0	

MAPID: 18500326000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770424 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.470726 DATE COLLECTED:
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2282.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
58.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	362.0
-154.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	574.0
-412.0	CARBONDALE	COLCHESTER	COAL	-	832.0
-			LIMESTONE	-	
-1601.0		BASE BARLOW	LIMESTONE	-	2021.0
-1862.0	RENAULT	BASE RENAULT	LIMESTONE	-	2282.0

MAPID: 18500328000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 830' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772104 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.467068 DATE COLLECTED:
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2266.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
64.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	356.0
-172.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	592.0
-436.0	CARBONDALE	COLCHESTER	COAL	-	856.0
-1197.0			LIMESTONE	-	1617.0
-1619.0		BASE BARLOW	LIMESTONE	-	2039.0
-1846.0	RENAULT	BASE RENAULT	LIMESTONE	-	2266.0

MAPID: 18500333000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770348 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.467058 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 2266.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
79.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	338.0
-147.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	564.0
-408.0	CARBONDALE	COLCHESTER	COAL	-	825.0
-			LIMESTONE	-	
-1583.0		BASE BARLOW	LIMESTONE	-	2000.0
-1849.0	RENAULT	BASE RENAULT	LIMESTONE	-	2266.0

MAPID: 18500371000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.763218 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.468806 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 1992.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
285.0	BOND	CARTHAGE	LIMESTONE	-	128.0
113.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	300.0
-122.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	535.0
-395.0	CARBONDALE	COLCHESTER	COAL	-	808.0
-1579.0		BASE BARLOW	LIMESTONE	-	1992.0

MAPID: 18500668000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.765645 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.470663 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 2264.0 LOG TYPE:
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
257.0	BOND	CARTHAGE	LIMESTONE	-	146.0
86.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	317.0
-137.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	540.0
-403.0	CARBONDALE	COLCHESTER	COAL	-	806.0
-1193.0			LIMESTONE	-	1596.0
-1590.0		BASE BARLOW	LIMESTONE	-	1993.0
-1861.0	RENAULT	BASE RENAULT	LIMESTONE	-	2264.0

MAPID: 18500670000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.765609 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.46884 DATE COLLECTED:
SURFACE ELEVATION (FT.): 401.0 LOGGED (FT.): 1986.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
107.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	294.0
-129.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	530.0
-389.0	CARBONDALE	COLCHESTER	COAL	-	790.0
-1585.0		BASE BARLOW	LIMESTONE	-	1986.0

MAPID: 18500671000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 830' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.766278 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.467033 DATE COLLECTED:
SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 1992.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
278.0	BOND	CARTHAGE	LIMESTONE	-	136.0
118.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	296.0
-116.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	530.0
-386.0	CARBONDALE	COLCHESTER	COAL	-	800.0
-			LIMESTONE	-	
-1578.0		BASE BARLOW	LIMESTONE	-	1992.0

MAPID: 18500672000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.768034 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.467042 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 2001.0 LOG TYPE:
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
113.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	304.0
-125.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	542.0
-393.0	CARBONDALE	COLCHESTER	COAL	-	810.0
-			LIMESTONE	-	
-1584.0		BASE BARLOW	LIMESTONE	-	2001.0

MAPID: 18500673000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.763446 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.476045 DATE COLLECTED:
SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 2303.0 LOG TYPE:
SOURCE: MORTON M E WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
97.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	322.0
-127.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	546.0
-409.0	CARBONDALE	COLCHESTER	COAL	-	828.0
-1245.0			LIMESTONE	-	1664.0
-1611.0		BASE BARLOW	LIMESTONE	-	2030.0
-1884.0	RENAULT	BASE RENAULT	LIMESTONE	-	2303.0

MAPID: 18501822000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770536 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.476239 DATE COLLECTED:
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2306.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
107.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	322.0
-127.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	556.0
-393.0	CARBONDALE	COLCHESTER	COAL	-	822.0
-			LIMESTONE	-	
-1612.0		BASE BARLOW	LIMESTONE	-	2041.0
-1877.0	RENAULT	BASE RENAULT	LIMESTONE	-	2306.0

MAPID: 18501823000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.777797 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.478259 DATE COLLECTED:
SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 2320.0 LOG TYPE:
SOURCE: BREHM, C. E. DRLG.&PROD. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
97.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	348.0
-141.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	586.0
-401.0	CARBONDALE	COLCHESTER	COAL	-	846.0
-			LIMESTONE	-	
-1605.0		BASE BARLOW	LIMESTONE	-	2050.0
-1875.0	RENAULT	BASE RENAULT	LIMESTONE	-	2320.0

MAPID: 18501824000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.760911 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.472375 DATE COLLECTED:
SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 2274.0 LOG TYPE:
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	285.0
-106.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	516.0
-387.0	CARBONDALE	COLCHESTER	COAL	-	797.0
-1212.0			LIMESTONE	-	1622.0
-1593.0		BASE BARLOW	LIMESTONE	-	2003.0
-1864.0	RENAULT	BASE RENAULT	LIMESTONE	-	2274.0

MAPID: 18502368000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775127 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.467088 DATE COLLECTED:
SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 2302.0 LOG TYPE:
SOURCE: L & M DRLG CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	355.0
-176.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	586.0
-448.0	CARBONDALE	COLCHESTER	COAL	-	858.0
-1198.0			LIMESTONE	-	1608.0
-1628.0		BASE BARLOW	LIMESTONE	-	2038.0
-1892.0	RENAULT	BASE RENAULT	LIMESTONE	-	2302.0

MAPID: 18502411000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.777696 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.472718 DATE COLLECTED:
SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2335.0 LOG TYPE:
SOURCE: L & M DRLG CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
231.0	BOND	CARTHAGE	LIMESTONE	-	192.0
64.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	359.0
-167.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	590.0
-439.0	CARBONDALE	COLCHESTER	COAL	-	862.0
-			LIMESTONE	-	
-1637.0		BASE BARLOW	LIMESTONE	-	2060.0
-1912.0	RENAULT	BASE RENAULT	LIMESTONE	-	2335.0

MAPID: 18502425000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 990' W line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775516 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.480075 DATE COLLECTED:
SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2308.0 LOG TYPE:
SOURCE: FISHER, CHARLES E., JR. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
92.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	330.0
-133.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	555.0
-393.0	CARBONDALE	COLCHESTER	COAL	-	815.0
-			LIMESTONE	-	
-1618.0		BASE BARLOW	LIMESTONE	-	2040.0
-1886.0	RENAULT	BASE RENAULT	LIMESTONE	-	2308.0

MAPID: 18502469000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775166 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.468966 DATE COLLECTED:
SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 2314.0 LOG TYPE:
SOURCE: L & M DRLG CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
61.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	355.0
-170.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	586.0
-439.0	CARBONDALE	COLCHESTER	COAL	-	855.0
-			LIMESTONE	-	
-1632.0		BASE BARLOW	LIMESTONE	-	2048.0
-1898.0	RENAULT	BASE RENAULT	LIMESTONE	-	2314.0

MAPID: 18502696000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 405' E line of NE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.761134 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.4706 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 2277.0 **LOG TYPE:**
SOURCE: BAUER, JOSEPH E. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
121.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	296.0
-106.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	523.0
-375.0	CARBONDALE	COLCHESTER	COAL	-	792.0
-			LIMESTONE	-	
-1579.0		BASE BARLOW	LIMESTONE	-	1996.0
-1860.0	RENAULT	BASE RENAULT	LIMESTONE	-	2277.0

MAPID: 18502738000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.770609 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.479905 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2030.0 **LOG TYPE:**
SOURCE: FISHER, CHARLES E., JR. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
95.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	323.0
-127.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	545.0
-402.0	CARBONDALE	COLCHESTER	COAL	-	820.0
-			LIMESTONE	-	
-1612.0		BASE BARLOW	LIMESTONE	-	2030.0

MAPID: 18502738000C **VERSION:** 2 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.770609 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.479905 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2138.0 **LOG TYPE:** Electric Log
SOURCE: FISHER, CHARLES E., JR. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-129.0	CARBONDALE	HERRIN	COAL	3.0	547.0
-199.0	CARBONDALE	BRIAR HILL	COAL	-	617.0
-221.0	CARBONDALE	SPRINGFIELD	COAL	3.0	639.0
-322.0	CARBONDALE	HOUCHIN CREEK	COAL	-	740.0

MAPID: 18502738000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770609 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.479905 DATE COLLECTED: 4 / 25 / 1956

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 2138.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
346.0	BOND	MT. CARMEL	SANDSTONE	100.0	72.0
181.0	PATOKA	MACOUPIN	LIMESTONE	1.6	237.0
95.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	323.0
-94.0	SHELBURN	DANVILLE	COAL	2.8	512.0
-129.0	CARBONDALE	HERRIN	COAL	3.0	547.0
-202.0	CARBONDALE	BRIAR HILL	COAL	1.0	620.0
-222.0	CARBONDALE	SPRINGFIELD	COAL	4.0	640.0
-324.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	742.0
-356.0	CARBONDALE	SURVANT	COAL	0.8	774.0
-402.0	CARBONDALE	COLCHESTER	COAL	-	820.0
-471.0	CARBONDALE	DEKOVEN	COAL	3.0	889.0
-488.0	CARBONDALE	DAVIS	COAL	4.0	906.0
-532.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	950.0

MAPID: 18505108000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 830' S line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770378 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.468439 DATE COLLECTED: 5 / 4 / 1962

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 2365.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
328.0	BOND	MT. CARMEL	SANDSTONE	90.0	90.0
168.0	PATOKA	MACOUPIN	LIMESTONE	1.0	250.0
80.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	338.0
-114.0	SHELBURN	DANVILLE	COAL	2.0	532.0
-149.0	CARBONDALE	HERRIN	COAL	3.0	567.0
-217.0	CARBONDALE	BRIAR HILL	COAL	1.0	635.0
-239.0	CARBONDALE	SPRINGFIELD	COAL	3.0	657.0
-336.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	754.0
-364.0	CARBONDALE	SURVANT	COAL	0.8	782.0
-401.0	CARBONDALE	COLCHESTER	COAL	-	819.0
-482.0	CARBONDALE	DAVIS	COAL	4.0	900.0
-515.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	933.0

MAPID: 18505108000C **VERSION:** 2 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 830' S line, 330' E line of SW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.770378 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.468439 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2266.0 **LOG TYPE:**
SOURCE: BAUER BROS. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	338.0
-147.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	565.0
-409.0	CARBONDALE	COLCHESTER	COAL	-	827.0
-			LIMESTONE	-	
-1584.0		BASE BARLOW	LIMESTONE	-	2002.0
-1848.0	RENAULT	BASE RENAULT	LIMESTONE	-	2266.0

MAPID: 18505501000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.763254 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.467012 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2260.0 **LOG TYPE:**
SOURCE: BAUER BROS. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
292.0	BOND	CARTHAGE	LIMESTONE	-	126.0
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	295.0
-107.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	525.0
-382.0	CARBONDALE	COLCHESTER	COAL	-	800.0
-1188.0			LIMESTONE	-	1606.0
-1572.0		BASE BARLOW	LIMESTONE	-	1990.0
-1842.0	RENAULT	BASE RENAULT	LIMESTONE	-	2260.0

MAPID: 18505515000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1N 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 360' E line of SE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.760895 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.466996 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 1975.0 **LOG TYPE:**
SOURCE: BAUER BROS. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-374.0	CARBONDALE	COLCHESTER	COAL	-	776.0
-1573.0		BASE BARLOW	LIMESTONE	-	1975.0

MAPID: 18526111000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.765803 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.477933 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2299.0 LOG TYPE:
SOURCE: SO. IL OIL PROD., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
101.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	325.0
-119.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	545.0
-402.0	CARBONDALE	COLCHESTER	COAL	-	828.0
-			LIMESTONE	-	
-1610.0		BASE BARLOW	LIMESTONE	-	2036.0
-1873.0	RENAULT	BASE RENAULT	LIMESTONE	-	2299.0

MAPID: 18501829000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 33 QUARTERS/FOOTAGES: 990' N line, 990' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.756237 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.470493 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 2001.0 LOG TYPE: Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-95.0	CARBONDALE	HERRIN	COAL	2.0	498.0
-175.0	CARBONDALE	BRIAR HILL	COAL	-	578.0
-194.0	CARBONDALE	SPRINGFIELD	COAL	4.0	597.0
-281.0	CARBONDALE	HOUCHIN CREEK	COAL	-	684.0

MAPID: 18502488000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 12W SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 625' W line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.748469 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.475854 DATE COLLECTED: 10 / 26 / 1956
SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2361.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
227.0	PATOKA	MACOUPIN	LIMESTONE	1.0	173.0
134.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	266.0
-60.0	SHELBURN	DANVILLE	COAL	2.8	460.0
-99.0	CARBONDALE	HERRIN	COAL	2.5	499.0
-164.0	CARBONDALE	BRIAR HILL	COAL	1.5	564.0
-190.0	CARBONDALE	SPRINGFIELD	COAL	4.0	590.0
-275.0	CARBONDALE	HOUCHIN CREEK	COAL	1.6	675.0
-313.0	CARBONDALE	SURVANT	COAL	1.0	713.0
-378.0	CARBONDALE	COLCHESTER	COAL	-	778.0
-389.0	CARBONDALE	DEKOVEN	COAL	2.0	789.0
-418.0	CARBONDALE	DAVIS	COAL	4.0	818.0
-452.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	852.0

MAPID: 18501833000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 1 QUARTERS/FOOTAGES: 994' S line, 500' E line
QUADRANGLE: LANCASTER LONGITUDE: -87.801045 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.542466 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 1633.0 LOG TYPE: Electric Log
SOURCE: SANDERS JOHN W ETAL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-281.0	CARBONDALE	HERRIN	COAL	4.0	724.0
-309.0	CARBONDALE	BRIAR HILL	COAL	-	752.0
-345.0	CARBONDALE	SPRINGFIELD	COAL	4.0	788.0
-419.0	CARBONDALE	HOUCHIN CREEK	COAL	-	862.0

MAPID: 18505332000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 1 QUARTERS/FOOTAGES: SW SW NW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.815448 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.551432 DATE COLLECTED: 7 / 30 / 1957
 SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 135.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO 42FR WELL TYPE: Coal Test
 COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
449.0			UNCONSOLIDATED	23.0	0.0	
426.0			GRAY SHALE	52.6	23.0	
373.4			ARGILACEOUS SHALE	6.3	75.6	
367.2			FOSSILIFEROUS SHALE	0.7	81.8	
366.5			BLACK SHALE	2.5	82.5	
364.0			GRAY SHALE	2.6	85.0	WITH SANDY STREAKS
361.4			LIMESTONE	1.2	87.6	GRAY
360.2			CLAYSTONE	6.3	88.8	GRAY
354.0			GRAY SHALE	35.3	95.0	
318.7			COAL	0.8	130.3	
317.8			CLAYSTONE	0.3	131.2	GRAY
317.5			GRAY SHALE	3.5	131.5	WITH SANDY STREAKS

MAPID: 18505341000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 1 QUARTERS/FOOTAGES: NE NE
 QUADRANGLE: LANCASTER LONGITUDE: -87.801778 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.55271 DATE COLLECTED: 7 / 31 / 1957
 SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO 52FR WELL TYPE: Coal Test
 COMMENT: LOCATION MAY BE IN THE NE CORNER SE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			UNCONSOLIDATED	23.0	0.0	
402.0			ARGILACEOUS SHALE	14.3	23.0	N. R.
387.7			FOSSILIFEROUS SHALE	0.6	37.3	
387.1			BLACK SHALE	1.0	37.9	
386.1			SANDY SHALE	6.1	38.9	
380.0			GRAY SHALE	5.9	45.0	
374.1			CLAYSTONE	8.4	50.9	GRAY
365.7			GRAY SHALE	20.6	59.3	
345.1			FOSSILIFEROUS SHALE	1.9	79.9	
343.2			COAL	0.5	81.8	
342.7			CLAYSTONE	12.7	82.3	GRAY

MAPID: 18505357000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 1 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: LANCASTER LONGITUDE: -87.814977 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.548159 DATE COLLECTED: 10 / 21 / 1957

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 67FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	15.0	0.0	
425.0			SANDSTONE	17.4	15.0	BROWN
407.6			CLAYSTONE	3.6	32.4	DK GRY
404.0			GLACIAL DRIFT	3.0	36.0	
401.0			BLACK SHALE	0.2	39.0	
400.8			SHALE	2.8	39.2	DK GRY
398.0			CLAYSTONE	0.2	42.0	GRAY
397.8			LIMESTONE	0.5	42.2	GRAY
397.3			ARGILLACEOUS LIMESTONE	0.3	42.7	GRAY
397.1			LIMESTONE	3.4	42.9	GRAY
393.7			ARGILACEOUS SHALE	7.8	46.3	WITH LIMESTONE NODULES
385.8			LIMESTONE	0.3	54.2	GRAY
385.6			ARGILACEOUS SHALE	2.3	54.4	WITH LIMESTONE NODULES
383.2			SHALE	12.4	56.8	WITH LIMESTONE NODULES; DK GRAY
370.8			BLACK SHALE	2.6	69.2	WITH LIMESTONE FOSSILS
368.2			COAL	1.0	71.8	
367.2			ARGILACEOUS SHALE	0.3	72.8	
366.9			GRAY SHALE	1.9	73.1	

MAPID: 18505358000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 1 QUARTERS/FOOTAGES: NE NE NW NW

QUADRANGLE: LANCASTER LONGITUDE: -87.813987 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.554219 DATE COLLECTED: 10 / 19 / 1957

SURFACE ELEVATION (FT.): 516.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 68FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
516.0			UNCONSOLIDATED	14.0	0.0	
502.0			GRAY SHALE	0.3	14.0	WITH BLACK CARBONACEOUS
501.7			COAL	0.3	14.3	
501.3			SANDY SHALE	0.4	14.7	
500.9			SANDSTONE	1.2	15.1	BROWN
499.7			ARGILLACEOUS SHALE	5.8	16.3	0
494.0			GRAY SHALE	59.0	22.0	
435.0			BLACK SHALE	3.3	81.0	
431.7			BLACK SHALE	0.1	84.3	WITH MASSES OF LIMESTONE FOSSILS
431.7			BLACK SHALE	0.3	84.3	
431.4			CARBONACEOUS SHALE	0.1	84.6	
431.3			GRAY SHALE	0.4	84.7	W/BLK CARBONACEOUS STREAKS & FOSSILS
430.9			GRAY SHALE	1.8	85.1	WITH LIMESTONE NODULES
429.2			GRAY SHALE	13.2	86.8	

MAPID: 18501501000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 2 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW

QUADRANGLE: LANCASTER LONGITUDE: -87.834061 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.546558 DATE COLLECTED:

SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 2785.0 LOG TYPE: Electric Log

SOURCE: SHARP OLEN D WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-301.0	CARBONDALE	HERRIN	COAL	3.0	818.0	
-339.0	CARBONDALE	BRIAR HILL	COAL	-	856.0	
-391.0	CARBONDALE	SPRINGFIELD	COAL	4.0	908.0	
-487.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1004.0	

MAPID: 18527413000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 2 QUARTERS/FOOTAGES: SE NW NW
QUADRANGLE: LANCASTER LONGITUDE: -87.83152 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.552096 DATE COLLECTED: 7 / 3 / 1984
SURFACE ELEVATION (FT.): LOGGED (FT.): 210.0 LOG TYPE: Drillers Log
SOURCE: JAMES A. SPETH 113246 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	27.0	0.0	
-			GRAY SHALE	20.0	27.0	
-			DARK SHALE	5.0	47.0	
-			GRAY SHALE	1.0	52.0	
-			LIMESTONE	1.0	53.0	
-			SANDY SHALE	9.0	54.0	
-			GRAY SHALE	2.0	63.0	
-			LIMESTONE	2.0	65.0	
-			GRAY SHALE	13.0	67.0	
-			DARK SHALE	18.0	80.0	
-			COAL	2.0	98.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	5.0	100.0	
-			COAL	2.0	105.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	8.0	107.0	
-			LIMESTONE	5.0	115.0	
-			SANDSTONE	20.0	120.0	
-			DARK SHALE	5.0	140.0	
-			LIMESTONE	5.0	145.0	
-			DARK SHALE	25.0	150.0	
-			SANDSTONE	35.0	175.0	

MAPID: 18503881000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW
QUADRANGLE: LANCASTER LONGITUDE: -87.852686 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.543039 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2714.0 LOG TYPE: Electric Log
SOURCE: TRUMBULL ASPHALT CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-277.0	CARBONDALE	HERRIN	COAL	2.0	756.0	
-313.0	CARBONDALE	BRIAR HILL	COAL	-	792.0	
-359.0	CARBONDALE	SPRINGFIELD	COAL	3.0	838.0	
-461.0	CARBONDALE	HOUCHIN CREEK	COAL	-	940.0	

MAPID: 18500313000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 1000' E line of NW
QUADRANGLE: LANCASTER LONGITUDE: -87.866291 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.554296 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 2565.0 LOG TYPE: Electric Log
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-252.0	CARBONDALE	HERRIN	COAL	3.0	750.0	
-290.0	CARBONDALE	BRIAR HILL	COAL	-	788.0	
-333.0	CARBONDALE	SPRINGFIELD	COAL	2.0	831.0	
-425.0	CARBONDALE	HOUCHIN CREEK	COAL	-	923.0	

MAPID: 18500313000C VERSION: 3 PROJECT: CONTROL
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 1000' E line of NW
QUADRANGLE: LANCASTER LONGITUDE: -87.866291 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.554296 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2565.0 LOG TYPE: Survey Sample Study
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 18500664000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.862063 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.541328 DATE COLLECTED:
SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 2539.0 LOG TYPE: Electric Log
SOURCE: COTUNGO J REMICK A WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-240.0	CARBONDALE	HERRIN	COAL	2.0	715.0	
-269.0	CARBONDALE	BRIAR HILL	COAL	-	744.0	
-325.0	CARBONDALE	SPRINGFIELD	COAL	6.0	800.0	
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	907.0	

MAPID: 18527414000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 4 QUARTERS/FOOTAGES: NW NE SW
QUADRANGLE: LANCASTER LONGITUDE: -87.866519 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.546941 DATE COLLECTED: 8 / 4 / 1983
SURFACE ELEVATION (FT.): LOGGED (FT.): 115.0 LOG TYPE: Drillers Log
SOURCE: DAVID SPETH 108602 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	20.0	0.0	
-			DARK CLAY	7.0	20.0	
-			SANDSTONE	1.0	27.0	
-			GRAY SHALE	9.0	28.0	
-			LIMESTONE	5.0	37.0	
-			GRAY SHALE	13.0	42.0	
-			SANDSTONE	5.0	55.0	
-			SANDSTONE	2.0	60.0	
-			SANDSTONE	7.0	62.0	
-			COAL	1.0	69.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	6.0	70.0	
-			COAL	1.0	76.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	17.0	77.0	
-			SANDSTONE	21.0	94.0	

MAPID: 18500652000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 5 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.873698 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.541553 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 2553.0 LOG TYPE: Electric Log
SOURCE: BENNETT BROS. DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-237.0	CARBONDALE	HERRIN	COAL	4.0	715.0	
-340.0	CARBONDALE	SPRINGFIELD	COAL	3.0	818.0	
-428.0	CARBONDALE	HOUCHIN CREEK	COAL	-	906.0	

MAPID: 18501467000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.900559 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.541668 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 2729.0 **LOG TYPE:** Electric Log
SOURCE: MALIS S NAVEN BEN **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-373.0	CARBONDALE	BRIAR HILL	COAL	-	836.0	
-433.0	CARBONDALE	SPRINGFIELD	COAL	4.0	896.0	
-517.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	

MAPID: 18501330000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 22' E line of NW
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.901792 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.539846 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 2824.0 **LOG TYPE:** Electric Log
SOURCE: HARRIS, R. A. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-332.0	CARBONDALE	HERRIN	COAL	2.0	799.0	
-375.0	CARBONDALE	BRIAR HILL	COAL	-	842.0	
-433.0	CARBONDALE	SPRINGFIELD	COAL	3.0	900.0	
-513.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	

MAPID: 18505319000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 7 **QUARTERS/FOOTAGES:**
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.901682 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.533419 **DATE COLLECTED:** 6 / 12 / 1957
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO 10 FR **WELL TYPE:** Coal Test
COMMENT: LOCATION MAY BE SE CORNER SW SEC 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	30.0	0.0	
430.0			ARGILACEOUS SHALE	30.0	30.0	WITH LIMESTONE NODULES
400.0			SHALY LIMESTONE	0.5	60.0	GRAY
399.5			BLACK SHALE	3.7	60.5	
395.8			ARGILACEOUS SHALE	15.8	64.2	

MAPID: 18501836000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: LANCASTER **LONGITUDE:** -87.873855 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.532338 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 2521.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-272.0	CARBONDALE	HERRIN	COAL	2.0	706.0	
-306.0	CARBONDALE	BRIAR HILL	COAL	-	740.0	
-368.0	CARBONDALE	SPRINGFIELD	COAL	3.0	802.0	
-456.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0	

MAPID: 18590074000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 8 **QUARTERS/FOOTAGES:** 420' N line, 2230' E line of NE
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.880427 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.539529 **DATE COLLECTED:** 3 / 26 / 1998
SURFACE ELEVATION (FT.): 424.4 **LOGGED (FT.):** 63.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. GW9 **WELL TYPE:** Water Well
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
424.4	PLEISTOCENE		CLAY	21.0	0.0	
403.4	MATTOON		SHALE	4.0	21.0	
399.4	MATTOON		SANDSTONE	18.0	25.0	SHALE STREAKS
381.4	MATTOON		GRAY SHALE	5.0	43.0	SANDSTONE STREAKS
376.4	MATTOON		SANDY SHALE	11.0	48.0	
365.4	MATTOON	FRIENDSVILLE	COAL	2.8	59.0	
362.6	BOND		SANDY SHALE	1.2	61.8	

MAPID: 18590081000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 8 QUARTERS/FOOTAGES: 2100' S line, 1180' E line of SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.876851 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.531706 DATE COLLECTED:
SURFACE ELEVATION (FT.): 412.8 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 604 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
412.8	PLEISTOCENE		UNCONSOLIDATED	17.7	0.0
395.1	MATTOON		SHALE	16.4	17.7
378.7	MATTOON	FRIENDSVILLE	COAL	2.6	34.1
376.1	BOND		SHALE	3.7	36.7
372.4	BOND	LIVINGSTON	LIMESTONE	2.9	40.4
369.5	BOND		SHALE	5.6	43.3
363.9	BOND		SHALY COAL	0.3	48.9
363.6	BOND		SHALE	1.4	49.2
362.2	BOND		SANDSTONE	2.9	50.6
359.3	BOND		SHALE	19.9	53.5
339.4	BOND		SANDSTONE	26.6	73.4

MAPID: 18590082000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 8 QUARTERS/FOOTAGES: 2060' S line, 1880' E line of SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.879313 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.531639 DATE COLLECTED:
SURFACE ELEVATION (FT.): 404.7 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 610 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
404.7	PLEISTOCENE		UNCONSOLIDATED	15.8	0.0
388.9	MATTOON		SHALE	2.4	15.8
386.5	MATTOON		SANDSTONE	2.8	18.2
383.7	MATTOON		SHALE	12.5	21.0
371.2	MATTOON	FRIENDSVILLE	SHALY COAL	2.9	33.5
368.3	BOND		SHALE	1.5	36.4
366.8	BOND	LIVINGSTON	LIMESTONE	11.1	37.9
355.7	BOND		SHALE	2.7	49.0
353.0	BOND		SHALY COAL	0.4	51.7
352.6	BOND		SHALE	33.4	52.1
319.2	BOND		SANDSTONE	9.7	85.5
309.5	BOND		SHALE	4.8	95.2

MAPID: 18590086000C VERSION: 1 PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 8 QUARTERS/FOOTAGES: 2120' S line, 2270' W line of SW

QUADRANGLE: BERRYVILLE LONGITUDE: -87.883462 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.531876 DATE COLLECTED:

SURFACE ELEVATION (FT.): 398.2 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 2630 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
398.2	PLEISTOCENE	FRIENDSVILLE	CLAY	22.0	0.0
376.2	MATTOON		SANDSTONE	4.6	22.0
371.6	MATTOON		COAL	2.6	26.6
369.0	BOND		SHALE	2.8	29.2

MAPID: 18500676000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 9 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.862168 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.535823 DATE COLLECTED:

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 2523.0 LOG TYPE: Electric Log

SOURCE: BANDER, JOE WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-257.0	CARBONDALE	HERRIN	COAL	3.0	702.0
-355.0	CARBONDALE	SPRINGFIELD	COAL	3.0	800.0
-450.0	CARBONDALE	HOUCHIN CREEK	COAL	-	895.0

MAPID: 18590072000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 9 QUARTERS/FOOTAGES: 1290' S line, 60' E line of SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.863643 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.529272 DATE COLLECTED: 3 / 18 / 1998
 SURFACE ELEVATION (FT.): 442.4 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: VIGO COAL CO. GS3 WELL TYPE: Coal Test
 COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
442.4	PLEISTOCENE		CLAY	15.0	0.0	
427.4	MATTOON		SANDSTONE	6.4	15.0	
421.0	MATTOON		SANDSTONE	11.6	21.4	SHALE STREAKS
409.4	MATTOON		GRAY SHALE	0.1	33.0	START CORING
409.3	MATTOON	FRIENDSVILLE	COAL	2.0	33.1	
407.3	MATTOON	FRIENDSVILLE	SHALE W/ COAL STREAKS	1.1	35.1	
406.2	MATTOON	FRIENDSVILLE	COAL	0.7	36.2	
405.6	MATTOON	FRIENDSVILLE	SHALE W/ COAL STREAKS	1.0	36.8	
404.6	BOND		GRAY SHALE	1.3	37.8	
403.2	BOND		SHALE	0.3	39.2	FOSSILS
403.0	BOND	LIVINGSTON	LIMESTONE	1.3	39.4	
401.7	BOND		GRAY SHALE	4.3	40.7	SANDSTONE STREAKS

MAPID: 18590073000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 9 QUARTERS/FOOTAGES: 1980' S line, 640' W line of SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.870463 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.531271 DATE COLLECTED: 3 / 19 / 1998
 SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: VIGO COAL CO. GS4 WELL TYPE: Coal Test
 COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0	PLEISTOCENE		CLAY	15.0	0.0	
410.0	MATTOON		SANDSTONE	1.8	15.0	
408.2	MATTOON		SANDSTONE	16.5	16.8	SHALE STREAKS
391.7	MATTOON		SANDY SHALE	0.7	33.3	
391.0	MATTOON	FRIENDSVILLE	COAL	0.6	34.0	START CORING
390.4	MATTOON	FRIENDSVILLE	SHALE	0.3	34.6	
390.2	MATTOON	FRIENDSVILLE	COAL	2.5	34.8	
387.7	MATTOON	FRIENDSVILLE	SHALE W/ COAL STREAKS	0.1	37.3	
387.6	BOND		SANDY SHALE	2.2	37.4	
385.4	BOND		SHALE	0.2	39.6	FOSSILS
385.2	BOND	LIVINGSTON	LIMESTONE	1.7	39.8	
383.5	BOND		GRAY SHALE	3.5	41.5	SANDSTONE STREAKS

MAPID: 18590083000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 9 QUARTERS/FOOTAGES: 610' S line, 2020' E line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.861258 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.527361 DATE COLLECTED:
SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 2424 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
445.0	PLEISTOCENE		CLAY	15.0	0.0
430.0	MATTOON		SANDY SHALE	16.0	15.0
414.0	MATTOON	FRIENDSVILLE	COAL	2.7	31.0
411.3	BOND		DARK SHALE	3.3	33.7

MAPID: 18502067000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NE
QUADRANGLE: LANCASTER LONGITUDE: -87.841173 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.539188 DATE COLLECTED:
SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 2746.0 LOG TYPE: Electric Log
SOURCE: E PETROLEUM WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-293.0	CARBONDALE	HERRIN	COAL	4.0	796.0
-334.0	CARBONDALE	BRIAR HILL	COAL	-	837.0
-384.0	CARBONDALE	SPRINGFIELD	COAL	4.0	887.0
-472.0	CARBONDALE	HOUCHIN CREEK	COAL	-	975.0

MAPID: 18590068000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 10 QUARTERS/FOOTAGES: 80' N line, 830' E line of NE

QUADRANGLE: LANCASTER LONGITUDE: -87.838271 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.539845 DATE COLLECTED: 3 / 24 / 1998

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. GS6 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE COAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.0	PLEISTOCENE		CLAY	15.0	0.0	
467.0	MATTOON		SHALE	1.4	15.0	
465.6	MATTOON		SANDSTONE	1.0	16.4	SHALE STREAKS
464.6	MATTOON		SANDY SHALE	14.9	17.4	
449.7	MATTOON		GRAY SHALE	5.1	32.3	
444.6	MATTOON	KEENSBURG	COAL	1.2	37.4	
443.4	MATTOON		UNDERCLAY	1.5	38.6	
441.9	MATTOON	MCCLEARY'S BLUFF	COAL	0.2	40.1	
441.7	MATTOON		UNDERCLAY	4.9	40.3	
436.8	MATTOON		GRAY SHALE	5.8	45.2	LIMESTONE NODS
431.0	MATTOON		SANDY SHALE	7.0	51.0	
424.0	MATTOON		SANDSTONE	18.4	58.0	START CORING
405.6	MATTOON		GRAY SHALE	6.1	76.4	SANDSTONE STREAKS
399.5	MATTOON	FRIENDSVILLE	PYRITE	0.2	82.5	
399.3	MATTOON	FRIENDSVILLE	COAL	0.1	82.7	
399.2	MATTOON	FRIENDSVILLE	SHALE	0.1	82.8	
399.1	MATTOON	FRIENDSVILLE	COAL	3.0	82.9	
396.2	MATTOON	FRIENDSVILLE	SHALE W/ COAL STREAKS	0.3	85.8	
395.9	BOND		SANDY SHALE	1.8	86.1	
394.1	BOND		SHALE	0.5	87.9	FOSSILS
393.6	BOND		SANDY SHALE	4.6	88.4	

MAPID: 18590077000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 10 QUARTERS/FOOTAGES: 1250' S line, 2150' E line of SE

QUADRANGLE: LANCASTER LONGITUDE: -87.843089

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.528894

DATE COLLECTED: 3 / 24 / 1998

SURFACE ELEVATION (FT.): 460.2 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. GS5

WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.2	PLEISTOCENE		CLAY	20.0	0.0	
440.2	PLEISTOCENE		SILT	4.0	20.0	
436.2	MATTOON		GRAY SHALE	6.0	24.0	SANDSTONE STREAKS
430.2	MATTOON		GRAY SHALE	2.1	30.0	
428.1	MATTOON	KEENSBURG	COAL	1.2	32.1	
426.9	MATTOON		SANDY SHALE	2.1	33.3	
424.8	MATTOON	MCCLEARY'S BLUFF	COAL	0.5	35.4	
424.4	MATTOON		CLAYSTONE	5.2	35.8	
419.2	MATTOON		GRAY SHALE	5.8	41.0	LIMESTONE NODS
413.4	MATTOON		SANDY SHALE	3.9	46.8	
409.5	MATTOON		GRAY SHALE	2.0	50.7	SANDSTONE STREAKS
407.5	MATTOON		SANDSTONE	7.3	52.7	SHALE STREAKS
400.2	MATTOON		SHALY SANDSTONE	0.4	60.0	START CORING
399.8	MATTOON		SANDSTONE	3.3	60.4	
396.5	MATTOON		SANDSTONE	3.0	63.7	SHALE STREAKS
393.5	MATTOON		SHALE	1.7	66.7	FOSSILS
391.8	MATTOON	FRIENDSVILLE	COAL	3.9	68.4	
387.9	BOND		SANDY SHALE	1.1	72.3	
386.8	BOND		SHALE	0.7	73.4	FOSSILS
386.1	BOND	LIVINGSTON	LIMESTONE	1.0	74.1	
385.1	BOND		SANDSTONE	2.9	75.1	SHALE STREAKS

MAPID: 18590087000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 10 QUARTERS/FOOTAGES: 650' N line, 140' E line of NE
 QUADRANGLE: LANCASTER LONGITUDE: -87.835872 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.538242 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 476.8 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: VIGO COAL CO. 2559 WELL TYPE: Coal Test
 COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
476.8	PLEISTOCENE		CLAY	21.2	0.0
455.6	MATTOON		SHALE	7.4	21.2
448.2	MATTOON	MCCLEARY'S BLUFF	COAL	1.1	28.6
447.1	MATTOON	MCCLEARY'S BLUFF	SHALE W/ COAL STREAKS	2.8	29.7
444.3	MATTOON	MCCLEARY'S BLUFF	COAL	0.5	32.5
443.8	MATTOON		SHALE	11.8	33.0
432.0	MATTOON		SANDSTONE	27.4	44.8
404.6	MATTOON	FRIENDSVILLE	COAL	3.2	72.2
401.4	BOND		SHALE	2.6	75.4

MAPID: 18505344000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 11 QUARTERS/FOOTAGES: SE SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.818785 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.526972 DATE COLLECTED: 7 / 30 / 1957
 SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO 55 FR WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
470.0			UNCONSOLIDATED	23.0	0.0
447.0			SHALEY CLAYSTONE	3.7	23.0 GRAY
443.3			FOSSILIFEROUS LIMESTONE	0.1	26.7 GRAY
443.2			COAL	1.0	26.8
442.2			CLAYSTONE	6.1	27.8 GRAY
436.2			COAL	0.1	33.8
436.1			CLAYSTONE	0.5	33.9 GRAY
435.6			COAL	0.2	34.4
435.4			CLAYSTONE	0.4	34.6 WITH LIMESTONE NODULES; GRAY
435.0			CLAYSTONE	20.0	35.0 WITH LIMESTONE NODULES; GRAY
415.0			GRAY SHALE	18.4	55.0 WITH SANDY STREAKS
396.6			SHALY COAL	2.8	73.4 WITH PYRITE
393.8			CLAYSTONE	1.7	76.2 SANDY; DK GRAY
392.2			FOSSILIFEROUS LIMESTONE	1.7	77.8 GRAY
390.5			SANDY SHALE	1.5	79.5

MAPID: 18590085000C VERSION: 1 PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 11 QUARTERS/FOOTAGES: 80' N line, 300' W line of NW

QUADRANGLE: LANCASTER LONGITUDE: -87.8343 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.539796 DATE COLLECTED:

SURFACE ELEVATION (FT.): 476.1 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 2704 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
476.1	PLEISTOCENE		CLAY	19.5	0.0
456.6	MATTOON		DARK SHALE	6.5	19.5
450.1	MATTOON	MCCLEARY'S BLUFF	COAL	1.5	26.0
448.6	MATTOON		SHALE	45.0	27.5
403.6	MATTOON	FRIENDSVILLE	COAL	3.0	72.5
400.6	BOND		DARK SHALE	1.5	75.5
399.1	BOND		SANDY SHALE	23.0	77.0

MAPID: 18500682000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 12 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.800362 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.536908 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 1596.0 LOG TYPE: Electric Log

SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-265.0	CARBONDALE	HERRIN	COAL	3.0	693.0
-319.0	CARBONDALE	BRIAR HILL	COAL	-	747.0
-354.0	CARBONDALE	SPRINGFIELD	COAL	4.0	782.0
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0

MAPID: 18527544000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 12

QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: LANCASTER

LONGITUDE: -87.810916

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.533302

DATE COLLECTED: 10 / 29 / 1985

SURFACE ELEVATION (FT.):

LOGGED (FT.): 180.0

LOG TYPE: Drillers Log

SOURCE: JAMES SPETH

121216

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	9.0	0.0	
-			SANDY CLAY	2.0	9.0	
-			CLAY	1.0	11.0	
-	MATTOON		GRAY SHALE	9.0	12.0	
-	MATTOON		LIMESTONE	1.0	21.0	
-	MATTOON		GRAY SHALE	26.0	22.0	
-	MATTOON	KEENSBURG	COAL	2.0	48.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	MATTOON		GRAY SHALE	28.0	50.0	
-	MATTOON		SANDSTONE	17.0	78.0	
-	MATTOON		DARK SHALE	4.0	95.0	
-	MATTOON	FRIENDSVILLE	COAL	2.0	99.0	DO NOT USE FOR RESOURCE CALCULATIONS
-			LIMESTONE	6.0	101.0	
-			DARK SHALE	38.0	107.0	
-			SANDSTONE	15.0	145.0	
-			LIMESTONE	4.0	160.0	
-			GRAY SHALE	10.0	164.0	
-			LIMESTONE	1.0	174.0	
-			SANDSTONE	5.0	175.0	

MAPID: 18500002000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: 35' S line, 100' W line of SW NW

QUADRANGLE: LANCASTER LONGITUDE: -87.816237 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.517859 DATE COLLECTED:

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 195.0 LOG TYPE: Drillers Log

SOURCE: POTTS & SON WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	13.0	0.0	
447.0	MATTOON		SANDSTONE	5.0	13.0	
442.0	MATTOON		SANDY SHALE	15.0	18.0	
427.0	MATTOON		LIMESTONE	1.0	33.0	
426.0	MATTOON		SANDSTONE	9.0	34.0	
417.0	MATTOON		LIMESTONE	1.0	43.0	
416.0	MATTOON		SANDY SHALE	8.0	44.0	
408.0	MATTOON		DARK SHALE	4.0	52.0	
404.0	MATTOON		SANDY SHALE	5.0	56.0	
399.0	MATTOON	FRIENDSVILLE	COAL	3.0	61.0	DO NOT USE FOR RESOURCE CALCULATIONS
396.0			DARK SHALE	3.0	64.0	
393.0	BOND		LIMESTONE	1.0	67.0	
392.0	BOND		SHALE	22.0	68.0	
370.0	BOND		SANDSTONE	28.0	90.0	
342.0	BOND		SANDSTONE	2.0	118.0	
340.0	BOND		DARK SHALE	6.0	120.0	
334.0	BOND		LIMESTONE	4.0	126.0	
330.0	BOND		LIMESTONE	3.0	130.0	
327.0	BOND		LIMESTONE	24.0	133.0	
303.0	BOND		DARK SHALE	28.0	157.0	
275.0	BOND	FLANNIGAN	COAL	1.0	185.0	DO NOT USE FOR RESOURCE CALCULATIONS
274.0	BOND		DARK SHALE	6.0	186.0	
268.0	BOND		SANDSTONE	3.0	192.0	

MAPID: 18501332000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: 990' S line, 330' W line

QUADRANGLE: LANCASTER LONGITUDE: -87.815537 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.513138 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2556.0 LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	4.0	671.0	
-	CARBONDALE	BRIAR HILL	COAL	-	734.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	764.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	844.0	

MAPID: 18504637001M VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: LANCASTER LONGITUDE: -87.815578 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.513158 DATE COLLECTED: 0 / 0 / 1980

SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 50.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: PRICE MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
400.0	MATTOON	FRIENDSVILLE	COAL	3.0	47.0	

MAPID: 18505311000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 13

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: LANCASTER

LONGITUDE: -87.799959

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.514696

DATE COLLECTED: 6 / 3 / 1957

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

2 FR

WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE NW CORNER SW

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	28.0	0.0	
432.0			COAL	0.5	28.0	
431.5			CLAYSTONE	21.5	28.5	GRAY
410.0			SHALY SANDSTONE	16.8	50.0	GRAY
393.2			GRAY SHALE	6.3	66.8	
386.9			COAL	1.6	73.1	
385.3			PYRITE	0.1	74.7	
385.2			COAL	0.1	74.8	
385.1			GRAY SHALE	0.3	74.9	
384.8			COAL	1.5	75.2	
383.3			GRAY SHALE	0.3	76.7	WITH COAL STREAKS
383.1			SANDY CLAYSTONE	4.2	76.9	GRAY
378.9			LIMESTONE	0.6	81.1	GRAY
378.3			CLAYSTONE	0.7	81.7	WITH LIMESTONE NODULES; GRAY
377.7			SANDY SHALE	5.8	82.3	
371.9			GRAY SHALE	5.3	88.1	
366.6			COAL	0.4	93.4	
366.2			SANDY CLAYSTONE	6.2	93.8	GRAY

MAPID: 18505352000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.802147 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.511056 DATE COLLECTED: 10 / 9 / 1957

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 62 FR WELL TYPE: Coal Test

COMMENT: SEE MAP SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0			UNCONSOLIDATED	15.0	0.0	
423.0			SANDY SHALE	1.4	15.0	
421.6			CLAYSTONE	1.3	16.4	DK GRAY
420.2			CLAYSTONE	7.7	17.8	DK GRAY
412.6			SANDY SHALE	2.6	25.4	WITH FEW LIMESTONE NODULES
410.0			ARGILACEOUS SHALE	1.0	28.0	
409.0			COAL WITH SHALE	2.9	29.0	
406.1			BLACK SHALE	0.2	31.9	WITH LIMESTONE FOSSILS
405.8			BLACK SHALE	0.1	32.2	WITH COAL SPAR
405.7			BLACK SHALE	2.8	32.3	WITH BLACK CARBONACEOUS

MAPID: 18505353000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.799933 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.512854 DATE COLLECTED: 10 / 9 / 1957

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 63 FR WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE SE CORNER NESE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	14.4	0.0	
425.6			SANDY SHALE	2.2	14.4	
423.4			LIMESTONE AND SANDSTONE	0.6	16.6	GRAY
422.8			SANDY SHALE	1.3	17.2	
421.5			LAMINATED SANDSTONE	4.7	18.5	GRAY
416.8			SANDY SHALE	5.5	23.2	WITH BLACK CARBONACEOUS
411.3			SHALE	2.2	28.7	DK GRAY
409.2			SANDY SHALE	9.8	30.8	
399.4			SANDY SHALE	2.9	40.6	
396.5			BLACK SHALE	0.1	43.5	WITH SANDSTONE STREAKS
396.4			COAL	2.8	43.6	
393.6			BLACK SHALE	0.3	46.4	
393.2			BLACK SHALE	2.3	46.8	WITH COAL SPARS

MAPID: 18505354000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.802206

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.516582

DATE COLLECTED: 10 / 9 / 1957

SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 64 FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.0			UNCONSOLIDATED	14.4	0.0	
428.6			SANDSTONE	1.1	14.4	BROWN
427.5			LIMESTONE AND SANDSTONE	0.7	15.5	GRAY
426.8			SANDSTONE	3.4	16.2	BROWN
423.4			GRAY SHALE	1.3	19.6	
422.1			SANDY SHALE	3.3	20.9	
418.8			SHALE	6.0	24.2	WITH SANDSTONE STREAKS; DK GRAY
412.8			SANDY SHALE	7.0	30.2	WITH BLACK CARBONACEOUS
405.8			COAL	0.3	37.2	
405.5			COAL WITH SHALE	0.2	37.5	
405.3			BLACK SHALE	0.2	37.7	
405.1			COAL WITH SHALE	1.0	37.9	
404.1			COAL	0.7	38.9	
403.4			COAL WITH SHALE	1.0	39.6	
402.4			BLACK SHALE	0.3	40.6	WITH COAL STREAKS
402.2			SHALE	2.2	40.8	WITH LIMESTONE FOSSILS; DK GRAY

MAPID: 18505355000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.800019

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.518381

DATE COLLECTED: 10 / 14 / 1957

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 41.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 65 FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			CLAY	15.0	0.0	
425.0			GLACIAL DRIFT	19.0	15.0	
406.0			ARGILACEOUS SHALE	4.3	34.0	
401.7			COAL	0.3	38.3	
401.4			ARGILACEOUS SHALE	2.4	38.6	

MAPID: 18505356000C
VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH
TWP/RNG: 1N 13W
SECTION: 13
QUARTERS/FOOTAGES: NW NW SE NE

QUADRANGLE: LANCASTER
LONGITUDE: -87.802796
GEOLOGIST: HOKE

CONFIDENTIAL: N
LATITUDE: 38.520733
DATE COLLECTED: 10 / 15 / 1957

SURFACE ELEVATION (FT.): 445.0
LOGGED (FT.): 78.0
LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO
66 FR
WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0			CLAY	15.0	0.0	BROWN
430.0			CALCAREOUS SANDSTONE	0.7	15.0	BROWN
429.3			GLACIAL DRIFT	2.7	15.7	
426.7			CLAYSTONE	0.7	18.3	DK GRAY
426.0			COAL	0.4	19.0	
425.6			CLAYSTONE	0.2	19.4	GRAY
425.4			COAL	0.4	19.6	
425.0			CLAYSTONE	2.0	20.0	DK GRAY
423.0			COAL	0.2	22.0	
422.8			CLAYSTONE	2.1	22.2	DK GRAY
420.7			CARBONACEOUS SHALE	0.5	24.3	
420.2			CLAYSTONE	4.3	24.8	WITH LIMESTONE NODULES; DK GRAY
416.0			CLAYSTONE	4.9	29.0	WITH LIMESTONE NODULES; GRAY
411.1			SANDSTONE	8.3	33.9	WITH LIMESTONE NODULES; GRAY
402.8			MICACEOUS SANDSTONE	26.0	42.2	GRAY
376.8			SANDY SHALE	4.8	68.2	
372.0			COAL	2.9	73.0	
369.1			BLACK SHALE	2.1	75.9	WITH BLACK CARBONACEOUS

MAPID: 18505925000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 13 QUARTERS/FOOTAGES: 497' N line, 303' E line of SE

QUADRANGLE: LANCASTER LONGITUDE: -87.799936 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.516088 DATE COLLECTED: 11 / 19 / 1969

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 750.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER 1-FR WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0			UNCONSOLIDATED	10.5	0.0	& CLAY
427.5			GLACIAL DRIFT	3.9	10.5	
423.6			SANDSTONE	7.6	14.4	BROWN
416.0			SANDSTONE	4.0	22.0	W/SHALE STREAKS; GRAY
412.0			SANDY SHALE	2.5	26.0	
409.5			SANDY SHALE	5.6	28.5	W/SANDSTONE STREAKS
404.0			SANDSTONE	11.6	34.0	W/SHALE STREAKS
392.4	MATTOON	FRIENDSVILLE	COAL	2.8	45.6	
389.7			UNDERCLAY	1.7	48.3	
388.0			SANDY SHALE	5.7	50.0	
382.3			SANDSTONE	11.6	55.7	MED GRAY
370.7			SANDY SHALE	2.7	67.3	
368.0			SANDSTONE	4.1	70.0	GRAY
363.9			SANDY SHALE	16.9	74.1	W/SANDSTONE STREAKS
347.0			SANDSTONE	3.0	91.0	GRAY
344.0			LIMESTONE	2.0	94.0	
342.0			SANDSTONE	1.3	96.0	
340.7			SHALE	2.9	97.3	W/SANDSTONE; MED GRAY
337.8			SHALE	3.1	100.2	DK GRAY
334.7			COAL	0.9	103.3	
333.8			SHALE	2.0	104.2	MED GRAY
331.8			SANDY SHALE	0.6	106.2	
331.2			SANDSTONE	3.7	106.8	
327.5			LIMESTONE	1.5	110.5	
326.0			SANDSTONE	13.6	112.0	W/GRAY SHALE
312.4			SHALE	31.4	125.6	MED GRAY
281.0			DARK SHALE	0.5	157.0	
280.5			SHALE	2.3	157.5	W/DARK SANDSTONE; DK GRAY
278.2			GRAY SHALE	3.1	159.8	W/SANDSTONE
275.1			SANDSTONE	7.1	162.9	
268.1			GRAY SHALE	19.2	169.9	W/SANDSTONE
248.9			SANDSTONE	3.4	189.1	
245.5			LIMESTONE	0.6	192.5	
244.9			SANDSTONE	45.9	193.1	
199.0			SANDY SHALE	34.0	239.0	
165.0			SANDSTONE	12.0	273.0	
153.0			GRAY SHALE	25.0	285.0	
128.0			COAL	0.8	310.0	
127.2			SANDY SHALE	32.3	310.8	

95.0	DARK SHALE	3.0	343.0	
92.0	COAL	1.0	346.0	
91.0	SANDY SHALE	13.8	347.0	
77.2	SANDY SHALE	44.2	360.8	W/BROWN SANDY HARD SEAMS
33.0	GRAY SHALE	15.0	405.0	
18.0	SANDY SHALE	11.8	420.0	
6.2	LIMESTONE	5.1	431.8	
1.2	SANDY SHALE	12.2	436.8	
-11.0	SANDY SHALE	5.5	449.0	W/SANDSTONE STREAKS
-16.5	SANDSTONE	17.9	454.5	
-34.4	SANDSTONE	42.6	472.4	W/SHALE STREAKS
-77.0	SANDSTONE	235.0	515.0	GRAY

MAPID: 18501698000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW
QUADRANGLE: LANCASTER **LONGITUDE:** -87.832055 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.52075 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 2697.0 **LOG TYPE:** Electric Log
SOURCE: ENGLE, GEORGE S. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-279.0	CARBONDALE	HERRIN	COAL	3.0	755.0
-334.0	CARBONDALE	BRIAR HILL	COAL	-	810.0
-363.0	CARBONDALE	SPRINGFIELD	COAL	4.0	839.0
-460.0	CARBONDALE	HOUCHIN CREEK	COAL	-	936.0

MAPID: 18505351000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 14 QUARTERS/FOOTAGES: SW NE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.820242 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.515078 DATE COLLECTED: 10 / 8 / 1957

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 61 FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	26.0	0.0	
424.0			LIMESTONE	0.8	26.0	GRY BRN
423.2			SANDSTONE	11.8	26.8	WITH SHALE STREAKS; GRAY
411.4			SANDY SHALE	1.1	38.6	
410.3			SHALE	4.3	39.7	WITH LIMESTONE STREAKS; DK GRY
406.1			SHALE	0.3	43.9	WITH LIMESTONE FOSSILS; DK GRAY
405.8			SHALE	1.0	44.2	DK GRAY
404.8			COAL	0.7	45.2	
404.2			COAL WITH SHALE	0.3	45.8	
403.9			COAL	0.5	46.1	
403.4			BLACK SHALE	0.2	46.6	
403.3			COAL	1.2	46.7	
402.2			BLACK SHALE	0.3	47.8	WITH COAL SPARS
401.9			BLACK SHALE	2.9	48.1	WITH CARBONACEOUS STREAKS INTERBEDDED

MAPID: 18590069000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 14 QUARTERS/FOOTAGES: 250' S line, 60' W line of SW

QUADRANGLE: LANCASTER LONGITUDE: -87.835667 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.511491 DATE COLLECTED: 3 / 18 / 1998

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. GS1 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.0	PLEISTOCENE		CLAY	15.0	0.0	
421.0	MATTOON		SHALE	4.0	15.0	
417.0	MATTOON		SANDSTONE	6.8	19.0	SHALE STREAKS
410.2	MATTOON		SANDY SHALE	4.0	25.8	
406.2	MATTOON		SHALE	0.3	29.8	FOSSILS
405.9	MATTOON		BLACK SHALE	0.5	30.1	
405.4	MATTOON	FRIENDSVILLE	COAL	2.7	30.6	
402.7	BOND		SANDY SHALE	3.1	33.3	
399.7	BOND		SHALE	1.7	36.3	FOSSILS

MAPID: 18590076000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 14 QUARTERS/FOOTAGES: 370' N line, 50' E line of NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.826203 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.524211 DATE COLLECTED: 3 / 26 / 1998
 SURFACE ELEVATION (FT.): LOGGED (FT.): 62.0 LOG TYPE: Drillers Log
 SOURCE: VIGO COAL CO. GW12 WELL TYPE: Water Well
 COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		CLAY	17.0	0.0	
-	MATTOON		SHALE	4.0	17.0	
-	MATTOON		GRAY SHALE	3.0	21.0	
-	MATTOON	KEENSBURG	COAL	1.2	24.0	
-	MATTOON		SANDY SHALE	2.8	25.2	
-	MATTOON	MCCLEARY'S BLUFF	COAL	0.6	28.0	
-	MATTOON		SANDY SHALE	9.4	28.6	
-	MATTOON		GRAY SHALE	18.0	38.0	SANDSTONE STREAKS
-	MATTOON		GRAY SHALE	2.0	56.0	
-	MATTOON	FRIENDSVILLE	COAL	3.3	58.0	
-	BOND		SANDY SHALE	0.7	61.3	

MAPID: 18590079000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 14 QUARTERS/FOOTAGES: 400' N line, 850' E line of SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.829176 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.516867 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 443.2 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log
 SOURCE: VIGO COAL CO. 667 WELL TYPE: Coal Test
 COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.2	PLEISTOCENE		UNCONSOLIDATED	24.8	0.0	
418.4	MATTOON		SHALE	3.4	24.8	
415.0	MATTOON	FRIENDSVILLE	COAL	4.3	28.2	
410.7	BOND		SHALE	8.5	32.5	
402.2	BOND	LIVINGSTON	LIMESTONE	11.1	41.0	
391.1	BOND		SHALE	16.1	52.1	
375.0	BOND		LIMESTONE	12.0	68.2	
363.0	BOND		SHALE	9.8	80.2	

MAPID: 18590080000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 14 QUARTERS/FOOTAGES: 40' N line, 1470' W line of SW
QUADRANGLE: LANCASTER LONGITUDE: -87.830579 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.517884 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.7 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 663 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.7	PLEISTOCENE	FRIENDSVILLE	UNCONSOLIDATED	21.5	0.0
422.2	MATTOON		SHALE	21.3	21.5
400.9	MATTOON		COAL	2.9	42.8
398.0	BOND		SHALE	49.6	45.7
348.4	BOND		LIMESTONE	9.7	95.3

MAPID: 18500690000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 15 QUARTERS/FOOTAGES: 413' S line, 330' W line of NW SE
QUADRANGLE: LANCASTER LONGITUDE: -87.843916 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.515682 DATE COLLECTED:
SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 2817.0 LOG TYPE: Electric Log
SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-255.0	CARBONDALE	HERRIN	COAL	2.0	789.0
-308.0	CARBONDALE	BRIAR HILL	COAL	-	842.0
-335.0	CARBONDALE	SPRINGFIELD	COAL	3.0	869.0
-430.0	CARBONDALE	HOUCHIN CREEK	COAL	-	964.0

MAPID: 18590070000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 10' S line, 20' W line of NW
QUADRANGLE: LANCASTER **LONGITUDE:** -87.854243 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.518334 **DATE COLLECTED:** 3 / 27 / 1998
SURFACE ELEVATION (FT.): 429.7 **LOGGED (FT.):** 73.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. GW11 **WELL TYPE:** Water Well
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
429.7	PLEISTOCENE		CLAY	28.0	0.0	
401.7	PLEISTOCENE		SAND & GRAVEL	2.0	28.0	
399.7	MATTOON		GRAY SHALE	2.0	30.0	
397.7	MATTOON	MCCLEARY'S BLUFF	COAL	0.4	32.0	
397.3	MATTOON		SANDY SHALE	9.6	32.4	
387.7	MATTOON		SANDSTONE	13.0	42.0	
374.7	MATTOON		LIMESTONE	2.0	55.0	
372.7	MATTOON		SANDSTONE	6.0	57.0	
366.7	MATTOON		SANDSTONE	5.0	63.0	SHALE STREAKS
361.7	MATTOON	FRIENDSVILLE	COAL	3.5	68.0	
358.2	BOND		GRAY SHALE	1.5	71.5	

MAPID: 18590071000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 1050' S line, 50' W line of NW
QUADRANGLE: LANCASTER **LONGITUDE:** -87.854089 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.521204 **DATE COLLECTED:** 3 / 19 / 1998
SURFACE ELEVATION (FT.): 436.4 **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. GS2 **WELL TYPE:** Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.4	PLEISTOCENE		CLAY	18.0	0.0	
418.4	MATTOON		SHALE	3.7	18.0	
414.7	MATTOON		SANDSTONE	4.0	21.7	
410.7	MATTOON		GRAY SHALE	4.1	25.7	LIMESTONE NODS
406.6	MATTOON		SANDSTONE	18.0	29.8	
388.6	MATTOON		SANDSTONE	9.6	47.8	SHALE STREAKS
379.0	MATTOON	FRIENDSVILLE	COAL	3.4	57.4	
375.6	BOND		GRAY SHALE	0.2	60.8	
375.4	BOND		SANDY SHALE	2.4	61.0	
373.0	BOND		SHALE	0.4	63.4	FOSSILS
372.6	BOND	LIVINGSTON	LIMESTONE	1.5	63.8	
371.1	BOND		GRAY SHALE	4.8	65.3	SANDSTONE STREAKS

MAPID: 18590089000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 1600' E line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.841497 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.511787 DATE COLLECTED:
SURFACE ELEVATION (FT.): 461.5 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 2403 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
461.5	PLEISTOCENE		CLAY	23.0	0.0
438.5	MATTOON		SANDY SHALE	17.3	23.0
421.2	MATTOON	MCCLEARY'S BLUFF	COAL	1.2	40.3
420.0	MATTOON		SANDY SHALE	31.0	41.5
389.0	MATTOON	FRIENDSVILLE	COAL	3.0	72.5
386.0	BOND		DARK SHALE	2.5	75.5
383.5	BOND		SANDY SHALE	22.0	78.0

MAPID: 18590090000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 15 QUARTERS/FOOTAGES: 960' S line, 1600' E line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.84146 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.513526 DATE COLLECTED:
SURFACE ELEVATION (FT.): 458.9 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 2401 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
458.9	PLEISTOCENE		CLAY	16.0	0.0
442.9	MATTOON		SANDY SHALE	26.8	16.0
416.1	MATTOON	MCCLEARY'S BLUFF	COAL	1.2	42.8
414.9	MATTOON		SANDY SHALE	33.0	44.0
381.9	MATTOON	FRIENDSVILLE	COAL	2.6	77.0
379.3	BOND		DARK SHALE	2.9	79.6
376.4	BOND		SANDY SHALE	17.5	82.5

MAPID: 18590091000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 680' N line, 610' W line of NW
QUADRANGLE: LANCASTER **LONGITUDE:** -87.852078 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.523674 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 476.2 **LOGGED (FT.):** 90.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. 211 **WELL TYPE:** Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
476.2	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
473.2	PLEISTOCENE		CLAY	15.0	3.0	
458.2	MATTOON		SHALE	27.7	18.0	SOME COAL
430.5	MATTOON	MCCLEARY'S BLUFF	COAL	1.1	45.7	
429.4	MATTOON	MCCLEARY'S BLUFF	SHALE	0.8	46.8	
428.6	MATTOON	MCCLEARY'S BLUFF	COAL	0.1	47.6	
428.5	MATTOON	MCCLEARY'S BLUFF	SHALE	0.6	47.7	
427.9	MATTOON	MCCLEARY'S BLUFF	SHALY COAL	0.7	48.3	
427.2	MATTOON		UNDERCLAY	5.0	49.0	
422.2	MATTOON		SANDY SHALE	2.0	54.0	
420.2	MATTOON		SANDSTONE	28.8	56.0	
391.4	MATTOON	FRIENDSVILLE	COAL	3.5	84.8	
387.9	MATTOON		UNDERCLAY	1.7	88.3	

MAPID: 18590092000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 1570' N line, 2250' E line of NE
QUADRANGLE: LANCASTER **LONGITUDE:** -87.843586 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.521112 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.5 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. 2315 **WELL TYPE:** Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
456.5	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
433.5	MATTOON		SANDY SHALE	20.0	23.0	
413.5	MATTOON	MCCLEARY'S BLUFF	COAL	1.5	43.0	
412.0	MATTOON		SANDY SHALE	34.5	44.5	
377.5	MATTOON	FRIENDSVILLE	COAL	4.0	79.0	
373.5	BOND		DARK SHALE	3.5	83.0	
370.0	BOND		SANDY SHALE	13.5	86.5	

MAPID: 18590093000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 15 QUARTERS/FOOTAGES: 1400' S line, 1660' E line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.841646 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.514741 DATE COLLECTED:
SURFACE ELEVATION (FT.): 459.9 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 2397 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
459.9	PLEISTOCENE		CLAY	22.0	0.0
437.9	MATTOON		SANDY SHALE	26.3	22.0
411.6	MATTOON	MCCLEARY'S BLUFF	COAL	1.2	48.3
410.4	MATTOON		SANDY SHALE	34.0	49.5
376.4	MATTOON	FRIENDSVILLE	COAL	2.9	83.5
373.5	BOND		DARK SHALE	2.6	86.4
370.9	BOND		SANDY SHALE	11.0	89.0

MAPID: 18590095000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 15 QUARTERS/FOOTAGES: 2340' S line, 1650' E line of SE
QUADRANGLE: LANCASTER LONGITUDE: -87.841554 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.517336 DATE COLLECTED:
SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 2400 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
467.0	PLEISTOCENE		CLAY	20.0	0.0
447.0	MATTOON		SANDY SHALE	39.7	20.0
407.3	MATTOON	MCCLEARY'S BLUFF	COAL	1.7	59.7
405.6	MATTOON		SANDY SHALE	33.1	61.4
372.5	MATTOON	FRIENDSVILLE	COAL	3.2	94.5
369.3	BOND		DARK SHALE	4.3	97.7
365.0	BOND		SANDY SHALE	18.0	102.0

MAPID: 18590096000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 950' N line, 1550' E line of NE
QUADRANGLE: LANCASTER **LONGITUDE:** -87.84109 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.522793 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.3 **LOGGED (FT.):** 91.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. 2266 **WELL TYPE:** Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
451.3	PLEISTOCENE		CLAY	40.7	0.0
410.6	MATTOON	MCCLEARY'S BLUFF	COAL	1.2	40.7
409.4	MATTOON		SHALE	34.9	41.9
374.5	MATTOON	FRIENDSVILLE	COAL	3.7	76.8
370.8	BOND		SHALE	10.5	80.5

MAPID: 18501845000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: LANCASTER **LONGITUDE:** -87.867174 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.517543 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 2812.0 **LOG TYPE:** Electric Log
SOURCE: MT. CARMEL DRLG. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-271.0	CARBONDALE	HERRIN	COAL	3.0	742.0
-307.0	CARBONDALE	BRIAR HILL	COAL	-	778.0
-363.0	CARBONDALE	SPRINGFIELD	COAL	3.0	834.0
-453.0	CARBONDALE	HOUCHIN CREEK	COAL	-	924.0

MAPID: 18501847000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.890483 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.517831 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 2851.0 **LOG TYPE:** Electric Log
SOURCE: STRINE D L **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-305.0	CARBONDALE	HERRIN	COAL	4.0	756.0
-399.0	CARBONDALE	SPRINGFIELD	COAL	3.0	850.0
-499.0	CARBONDALE	HOUCHIN CREEK	COAL	-	950.0

MAPID: 18505777000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 17 QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: BERRYVILLE LONGITUDE: -87.890504 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.515968 DATE COLLECTED: 4 / 30 / 1976

SURFACE ELEVATION (FT.): LOGGED (FT.): 270.0 LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 1 WELL TYPE: Dry Hole

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	30.0	0.0	SOIL AND CLAY
-	MATTOON		GRAY SHALE	28.0	30.0	
-	MATTOON		COAL	2.0	58.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	MATTOON		LIMESTONE	2.0	60.0	
-	MATTOON		GRAY SHALE	11.0	62.0	
-	MATTOON		LIMESTONE	3.0	73.0	
-	MATTOON		LIGHT SHALE	14.0	76.0	
-	MATTOON		DARK SHALE	20.0	90.0	
-	MATTOON	FRIENDSVILLE	COAL	2.0	110.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	8.0	112.0	
-	BOND		LIGHT SHALE	5.0	120.0	
-	BOND		LIMESTONE	10.0	125.0	
-	BOND		GRAY SHALE	25.0	135.0	
-	BOND		COAL	2.0	160.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		LIMESTONE	3.0	162.0	
-	BOND		SANDSTONE	13.0	165.0	
-	BOND		SHALE	7.0	178.0	
-	BOND		SANDSTONE	15.0	185.0	
-	BOND		SHALE	18.0	200.0	
-	BOND		DARK SHALE	5.0	218.0	
-	BOND		GRAY SHALE	7.0	223.0	
-	BOND		SANDSTONE	10.0	230.0	
-	BOND		SHALE	30.0	240.0	

MAPID: 18590075000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 17 QUARTERS/FOOTAGES: 10' N line, 1710' E line of NE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.8788 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.525913 DATE COLLECTED: 3 / 27 / 1998
SURFACE ELEVATION (FT.): 401.1 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. GW10 WELL TYPE: Water Well
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.1	PLEISTOCENE		CLAY	10.0	0.0	
391.1	PLEISTOCENE		SAND	18.0	10.0	
373.1	PLEISTOCENE		SILT	5.0	28.0	
368.1	PLEISTOCENE		SAND & GRAVEL	3.0	33.0	
365.1	PLEISTOCENE		SAND	2.0	36.0	
363.1	MATTOON		SANDSTONE	6.0	38.0	SHALE STREAKS
357.1	MATTOON	FRIENDSVILLE	COAL	3.1	44.0	
354.0	BOND		SANDY SHALE	0.9	47.1	

MAPID: 18500691000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 18 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.907834 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.521446 DATE COLLECTED:
SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2900.0 LOG TYPE: Electric Log
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-351.0	CARBONDALE	HERRIN	COAL	-	779.0	
-381.0	CARBONDALE	BRIAR HILL	COAL	-	809.0	
-457.0	CARBONDALE	SPRINGFIELD	COAL	5.0	885.0	
-532.0	CARBONDALE	HOUCHIN CREEK	COAL	-	960.0	

MAPID: 18501848000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.897967 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.499405 DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 2922.0 LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-365.0	CARBONDALE	HERRIN	COAL	4.0	838.0	
-413.0	CARBONDALE	BRIAR HILL	COAL	-	886.0	
-457.0	CARBONDALE	SPRINGFIELD	COAL	3.0	930.0	
-547.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1020.0	

MAPID: 18505340000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: BERRYVILLE LONGITUDE: -87.901667 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.503984 DATE COLLECTED: 7 / 26 / 1957

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 51 FR WELL TYPE: Coal Test

COMMENT: LOC. MAY BE IN CEN. SW NE OF 24-1N-13W

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			UNCONSOLIDATED	23.0	0.0	
432.0			GRAY SHALE	15.4	23.0	WITH SANDY STREAKS
416.6			SHALY COAL	2.8	38.4	WITH PYRITE
413.7			SANDY CLAYSTONE	1.8	41.3	DK GRAY
411.9			FOSSILIFEROUS SHALE	0.3	43.1	
411.6			FOSSILIFEROUS LIMESTONE	2.3	43.4	GRAY
409.3			SANDY SHALE	1.3	45.7	

MAPID: 18500383000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.8839 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.503072 **DATE COLLECTED:** 9 / 16 / 1946
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 2790.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
198.0	BOND	REEL	LIMESTONE	-	252.0
133.0	BOND	MT. CARMEL	SANDSTONE	50.0	317.0
80.0	BOND	CARTHAGE	LIMESTONE	-	370.0
14.0	PATOKA	MACOUPIN	LIMESTONE	2.0	436.0
-82.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	532.0
-302.0	SHELBURN	DANVILLE	COAL	4.0	752.0
-334.0	CARBONDALE	HERRIN	COAL	4.5	784.0
-375.0	CARBONDALE	BRIAR HILL	COAL	0.5	825.0
-434.0	CARBONDALE	SPRINGFIELD	COAL	5.0	884.0
-523.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	973.0
-610.0	CARBONDALE	COLCHESTER	COAL	0.5	1060.0
-733.0	CARBONDALE	DAVIS	COAL	3.8	1183.0
-710.0	TRADEWATER	CARRIER MILLS	SHALE	-	1160.0

MAPID: 18500692000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: BERRYVILLE **LONGITUDE:** -87.877014 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.503047 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 2761.0 **LOG TYPE:** Electric Log
SOURCE: RUDY, J. W., COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-299.0	CARBONDALE	HERRIN	COAL	3.0	750.0
-344.0	CARBONDALE	BRIAR HILL	COAL	-	795.0
-391.0	CARBONDALE	SPRINGFIELD	COAL	4.0	842.0
-487.0	CARBONDALE	HOUCHIN CREEK	COAL	-	938.0

MAPID: 18501849000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NW
QUADRANGLE: LANCASTER LONGITUDE: -87.86747 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.508438 DATE COLLECTED:
SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 2544.0 LOG TYPE: Electric Log
SOURCE: FILE LOST WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-283.0	CARBONDALE	HERRIN	COAL	6.0	750.0	
-325.0	CARBONDALE	BRIAR HILL	COAL	-	792.0	
-371.0	CARBONDALE	SPRINGFIELD	COAL	4.0	838.0	
-467.0	CARBONDALE	HOUCHIN CREEK	COAL	-	934.0	

MAPID: 18503932000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 21 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE
QUADRANGLE: LANCASTER LONGITUDE: -87.862693 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.510198 DATE COLLECTED: 5 / 15 / 1953
SURFACE ELEVATION (FT.): 488.0 LOGGED (FT.): 2831.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
243.0	BOND	REEL	LIMESTONE	-	245.0	
208.0	BOND	MT. CARMEL	SANDSTONE	90.0	280.0	
61.0	PATOKA	MACOUPIN	LIMESTONE	-	427.0	
-30.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	518.0	
-222.0	SHELBURN	DANVILLE	COAL	2.0	710.0	
-264.0	CARBONDALE	HERRIN	COAL	3.0	752.0	
-315.0	CARBONDALE	BRIAR HILL	COAL	-	803.0	
-352.0	CARBONDALE	SPRINGFIELD	COAL	4.5	840.0	
-440.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	928.0	
-562.0	CARBONDALE	COLCHESTER	COAL	0.5	1050.0	
-610.0	CARBONDALE	DAVIS	COAL	4.0	1098.0	
-632.0	TRADEWATER	CARRIER MILLS	SHALE	-	1120.0	

MAPID: 18503933000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.870381 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.497586 DATE COLLECTED: 4 / 15 / 1953

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 2640.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
234.0	BOND	REEL	LIMESTONE	-	210.0
199.0	BOND	MT. CARMEL	SANDSTONE	90.0	245.0
50.0	PATOKA	MACOUPIN	LIMESTONE	-	394.0
-39.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	483.0
-246.0	SHELBURN	DANVILLE	COAL	2.0	690.0
-281.0	CARBONDALE	HERRIN	COAL	3.0	725.0
-344.0	CARBONDALE	BRIAR HILL	COAL	0.8	788.0
-370.0	CARBONDALE	SPRINGFIELD	COAL	5.0	814.0
-465.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	909.0
-556.0	CARBONDALE	COLCHESTER	COAL	0.5	1000.0
-611.0	CARBONDALE	DAVIS	COAL	2.8	1055.0
-646.0	TRADEWATER	CARRIER MILLS	SHALE	-	1090.0
-686.0	TRADEWATER	CREAL SPRING	LIMESTONE	3.8	1130.0

MAPID: 18502375000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.849098 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.502842 DATE COLLECTED: 6 / 0 / 1956

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 0.0 LOG TYPE: Electric Log

SOURCE: HUMPHREY WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
233.0	BOND	REEL	LIMESTONE	-	233.0
178.0	BOND	MT. CARMEL	SANDSTONE	60.0	288.0
121.0	BOND	CARTHAGE	LIMESTONE	-	345.0
46.0	PATOKA	MACOUPIN	LIMESTONE	2.0	420.0
-41.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	507.0
-243.0	SHELBURN	DANVILLE	COAL	3.0	709.0
-289.0	CARBONDALE	HERRIN	COAL	4.5	755.0
-349.0	CARBONDALE	BRIAR HILL	COAL	1.8	815.0
-389.0	CARBONDALE	SPRINGFIELD	COAL	6.0	855.0
-434.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	900.0
-559.0	CARBONDALE	COLCHESTER	COAL	0.5	1025.0
-616.0	CARBONDALE	DAVIS	COAL	3.7	1082.0
-639.0	TRADEWATER	CARRIER MILLS	SHALE	-	1105.0

MAPID: 18505436000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.840041 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.499145 DATE COLLECTED: 6 / 19 / 1965

SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 1886.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
387.0	MATTOON	FRIENDSVILLE	COAL	3.0	110.0
315.0	BOND	WITT	COAL	1.0	182.0
257.0	BOND	REEL	LIMESTONE	-	240.0
225.0	BOND	MT. CARMEL	SANDSTONE	90.0	272.0
67.0	PATOKA	MACOUPIN	LIMESTONE	1.5	430.0
-18.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	515.0
-215.0	SHELBURN	DANVILLE	COAL	1.0	712.0
-263.0	CARBONDALE	HERRIN	COAL	3.0	760.0
-318.0	CARBONDALE	BRIAR HILL	COAL	0.8	815.0
-343.0	CARBONDALE	SPRINGFIELD	COAL	3.8	840.0
-413.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	910.0
-538.0	CARBONDALE	COLCHESTER	COAL	0.5	1035.0
-595.0	CARBONDALE	DAVIS	COAL	3.0	1092.0
-621.0	TRADEWATER	CARRIER MILLS	SHALE	-	1118.0

MAPID: 18590078000C

VERSION: 1

PROJECT: LUMP

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 22

QUARTERS/FOOTAGES: 1370' N line, 1250' E line of NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.840503

GEOLOGIST: NORTH

CONFIDENTIAL: N

LATITUDE: 38.507079

DATE COLLECTED: 5 / 28 / 1998

SURFACE ELEVATION (FT.): 452.3

LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO.

22-5

WELL TYPE: Coal Test

COMMENT: PERMIT 330

FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
452.3	PLEISTOCENE		CLAY	12.0	0.0	
440.3	MATTOON		SHALE	8.0	12.0	
432.3	MATTOON		SANDY SHALE	3.8	20.0	
428.5	MATTOON	KEENSBURG	COAL	1.2	23.8	
427.3	MATTOON		UNDERCLAY	1.0	25.0	
426.3	MATTOON		SANDY SHALE	1.0	26.0	
425.3	MATTOON	MCCLEARY'S BLUFF	COAL	0.6	27.0	
424.7	MATTOON		SANDY SHALE	10.4	27.6	
414.3	MATTOON		SANDSTONE	12.0	38.0	SHALE STREAKS
402.3	MATTOON		SANDY SHALE	9.8	50.0	START CORING
392.5	MATTOON	FRIENDSVILLE	COAL	0.3	59.8	
392.2	MATTOON		SHALE	0.2	60.1	
392.0	MATTOON	FRIENDSVILLE	COAL	1.4	60.3	
390.6	MATTOON	FRIENDSVILLE	SHALE	0.1	61.7	
390.5	MATTOON	FRIENDSVILLE	COAL	1.0	61.8	
389.5	MATTOON	FRIENDSVILLE	SHALE	0.3	62.8	
389.2	MATTOON	FRIENDSVILLE	COAL	0.3	63.1	
388.9	BOND		SANDY SHALE	1.7	63.4	

MAPID: 18590084000C VERSION: 1 PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 22 QUARTERS/FOOTAGES: 50' N line, 1340' E line of SE

QUADRANGLE: LANCASTER LONGITUDE: -87.841025 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.503527 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.2 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 538 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
436.2	PLEISTOCENE		UNCONSOLIDATED	17.9	0.0
418.3	MATTOON		SANDSTONE	2.6	17.9
415.7	MATTOON		SHALE	17.9	20.5
397.8	MATTOON	FRIENDSVILLE	COAL	3.4	38.4
394.4	BOND		SHALE	2.6	41.8
391.8	BOND	LIVINGSTON	LIMESTONE	4.9	44.4
386.9	BOND		SANDSTONE	8.9	49.3
378.0	BOND		SHALE	12.8	58.2
365.2	BOND		SANDSTONE	29.0	71.0

MAPID: 18590088000C VERSION: 1 PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 22 QUARTERS/FOOTAGES: 1200' N line, 1460' E line of NE

QUADRANGLE: LANCASTER LONGITUDE: -87.841212 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.507559 DATE COLLECTED:

SURFACE ELEVATION (FT.): 456.3 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 2434 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
456.3	PLEISTOCENE		CLAY	26.5	0.0
429.8	MATTOON	MCCLEARY'S BLUFF	COAL	1.1	26.5
428.7	MATTOON		SANDY SHALE	33.9	27.6
394.8	MATTOON	FRIENDSVILLE	COAL	2.2	61.5
392.6	BOND		DARK SHALE	2.8	63.7
389.8	BOND		SANDY SHALE	13.5	66.5

MAPID: 18501313000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825734 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.49716 DATE COLLECTED:
SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 2631.0 LOG TYPE: Electric Log
SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-212.0	CARBONDALE	HERRIN	COAL	2.0	674.0
-272.0	CARBONDALE	BRIAR HILL	COAL	-	734.0
-300.0	CARBONDALE	SPRINGFIELD	COAL	3.0	762.0
-380.0	CARBONDALE	HOUCHIN CREEK	COAL	-	842.0

MAPID: 18501857000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NW
QUADRANGLE: LANCASTER LONGITUDE: -87.832584 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.504461 DATE COLLECTED: 5 / 16 / 1950
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 2712.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
318.0	BOND	WITT	COAL	-	162.0
260.0	BOND	REEL	LIMESTONE	1.0	220.0
210.0	BOND	MT. CARMEL	SANDSTONE	66.0	270.0
80.0	PATOKA	MACOUPIN	LIMESTONE	2.5	400.0
-6.0	SHELBURN	WEST FRANKLIN	LIMESTONE	3.5	486.0
-194.0	SHELBURN	DANVILLE	COAL	3.0	674.0
-246.0	CARBONDALE	HERRIN	COAL	3.8	726.0
-301.0	CARBONDALE	BRIAR HILL	COAL	1.0	781.0
-330.0	CARBONDALE	SPRINGFIELD	COAL	4.0	810.0
-400.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	880.0
-513.0	CARBONDALE	COLCHESTER	COAL	0.5	993.0
-574.0	CARBONDALE	DAVIS	COAL	3.8	1054.0
-598.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1078.0

MAPID: 18501858000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828052 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.497197 DATE COLLECTED: 3 / 21 / 1950

SURFACE ELEVATION (FT.): 469.0 LOGGED (FT.): 1757.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
401.0	MATTOON	FRIENDSVILLE	COAL	3.5	68.0
343.0	BOND	WITT	COAL	1.0	126.0
281.0	BOND	REEL	LIMESTONE	-	188.0
233.0	BOND	MT. CARMEL	SANDSTONE	60.0	236.0
114.0	PATOKA	MACOUPIN	LIMESTONE	1.5	355.0
29.0	SHELBURN	WEST FRANKLIN	LIMESTONE	3.0	440.0
-153.0	SHELBURN	DANVILLE	COAL	2.5	622.0
-196.0	CARBONDALE	HERRIN	COAL	3.5	665.0
-255.0	CARBONDALE	BRIAR HILL	COAL	1.0	724.0
-283.0	CARBONDALE	SPRINGFIELD	COAL	3.8	752.0
-367.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	836.0
-493.0	CARBONDALE	COLCHESTER	COAL	-	962.0
-535.0	CARBONDALE	DAVIS	COAL	4.8	1004.0

MAPID: 18526050000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 23 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: LANCASTER **LONGITUDE:** -87.818239 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.500605 **DATE COLLECTED:** 11 / 14 / 1974
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 275.0 **LOG TYPE:** Drillers Log
SOURCE: DAIVD A. SPETH 1 **WELL TYPE:** Water Well
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	14.0	0.0	
446.0	MATTOON		SANDSTONE	6.0	14.0	
440.0	MATTOON	KEENSBURG	COAL	1.0	20.0	DO NOT USE FOR RESOURCE CALCULATIONS
439.0	MATTOON		GRAY SHALE	4.0	21.0	
435.0	MATTOON		SANDY SHALE	40.0	25.0	
395.0	MATTOON		DARK SHALE	3.0	65.0	
392.0	MATTOON	FRIENDSVILLE	COAL	2.0	68.0	DO NOT USE FOR RESOURCE CALCULATIONS
390.0	BOND		LIMESTONE	3.0	70.0	
387.0	BOND		DARK SHALE	10.0	73.0	
377.0	BOND		SANDY SHALE	2.0	83.0	
375.0	BOND		DARK SHALE	12.0	85.0	
363.0	BOND		SANDSTONE	38.0	97.0	
325.0	BOND	WITT	COAL	2.0	135.0	DO NOT USE FOR RESOURCE CALCULATIONS
323.0	BOND		GRAY SHALE	9.0	137.0	
314.0	BOND		LIMESTONE	14.0	146.0	
300.0	BOND		GRAY SHALE	5.0	160.0	
295.0	BOND		DARK SHALE	30.0	165.0	
265.0	BOND	FLANNIGAN	COAL	2.0	195.0	DO NOT USE FOR RESOURCE CALCULATIONS
263.0	BOND		GRAY SHALE	28.0	197.0	
235.0	BOND		SANDY SHALE	30.0	225.0	
205.0	BOND	MT. CARMEL	SANDSTONE	20.0	255.0	

MAPID: 18527418000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 23

QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: LANCASTER

LONGITUDE: -87.818187

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.502394

DATE COLLECTED: 8 / 5 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 184.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH

95348

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	10.0	0.0	
465.0	MATTOON		SANDSTONE	5.0	10.0	
460.0	MATTOON		COAL	3.0	15.0	DO NOT USE FOR RESOURCE CALCULATIONS
457.0	MATTOON		SANDY SHALE	15.0	18.0	
442.0	MATTOON		COAL	2.0	33.0	DO NOT USE FOR RESOURCE CALCULATIONS
440.0	MATTOON		GRAY SHALE	3.0	35.0	
437.0	MATTOON		COAL	1.0	38.0	DO NOT USE FOR RESOURCE CALCULATIONS
436.0	MATTOON		GRAY SHALE	7.0	39.0	
429.0	MATTOON		LIMESTONE	4.0	46.0	
425.0	MATTOON		SANDY SHALE	10.0	50.0	
415.0	MATTOON		DARK SHALE	11.0	60.0	
404.0	MATTOON	FRIENDSVILLE	COAL	4.0	71.0	DO NOT USE FOR RESOURCE CALCULATIONS
400.0	BOND		LIMESTONE	3.0	75.0	
397.0	BOND		DARK SHALE	50.0	78.0	
347.0	BOND		COAL	1.0	128.0	DO NOT USE FOR RESOURCE CALCULATIONS
346.0	BOND		DARK SHALE	41.0	129.0	
305.0	BOND		SANDSTONE	14.0	170.0	

MAPID: 18527617000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 23

QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.830301

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.502611

DATE COLLECTED: 4 / 17 / 1987

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 280.0

LOG TYPE: Drillers Log

SOURCE: JAMES SPETH

130006

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	26.0	0.0	
434.0	MATTOON		SANDSTONE	1.0	26.0	
433.0	MATTOON		COAL	2.0	27.0	DO NOT USE FOR RESOURCE CALCULATIONS
431.0	MATTOON		GRAY SHALE	6.0	29.0	
425.0	MATTOON		SANDSTONE	13.0	35.0	
412.0	MATTOON		GRAY SHALE	30.0	48.0	
382.0	MATTOON	FRIENDSVILLE	COAL	4.0	78.0	DO NOT USE FOR RESOURCE CALCULATIONS
378.0	BOND		LIMESTONE	1.0	82.0	
377.0	BOND		DARK SHALE	10.0	83.0	
367.0	BOND		GRAY SHALE	36.0	93.0	
331.0	BOND		LIMESTONE	4.0	129.0	
327.0	BOND		GRAY SHALE	17.0	133.0	
310.0	BOND		SANDSTONE	45.0	150.0	
265.0	BOND		LIMESTONE	6.0	195.0	
259.0	BOND		SANDSTONE	5.0	201.0	
254.0	BOND		GRAY SHALE	19.0	206.0	
235.0	BOND	MT. CARMEL	SANDSTONE	55.0	225.0	

MAPID: 18501859000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NE
QUADRANGLE: LANCASTER LONGITUDE: -87.804392 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.507527 DATE COLLECTED: 5 / 15 / 1952
SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 1738.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
328.0	BOND	WITT	COAL	1.0	105.0
263.0	BOND	REEL	LIMESTONE	1.8	170.0
223.0	BOND	MT. CARMEL	SANDSTONE	82.0	210.0
93.0	PATOKA	MACOUPIN	LIMESTONE	1.2	340.0
8.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	425.0
-191.0	SHELBURN	DANVILLE	COAL	1.0	624.0
-247.0	CARBONDALE	HERRIN	COAL	4.0	680.0
-312.0	CARBONDALE	BRIAR HILL	COAL	1.6	745.0
-347.0	CARBONDALE	SPRINGFIELD	COAL	4.5	780.0
-402.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	835.0
-485.0	CARBONDALE	COLCHESTER	COAL	0.5	918.0
-547.0	CARBONDALE	DAVIS	COAL	4.5	980.0

MAPID: 18501862000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE
QUADRANGLE: LANCASTER LONGITUDE: -87.804327 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.502136 DATE COLLECTED:
SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 1730.0 LOG TYPE: Electric Log
SOURCE: CALVERT DRILLING, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-235.0	CARBONDALE	HERRIN	COAL	4.0	690.0
-300.0	CARBONDALE	BRIAR HILL	COAL	-	755.0
-330.0	CARBONDALE	SPRINGFIELD	COAL	5.0	785.0
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	-	850.0

MAPID: 18503940000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.808931 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.500469 DATE COLLECTED: 4 / 25 / 1951

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 1831.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
330.0	BOND	WITT	COAL	-	112.0
270.0	BOND	REEL	LIMESTONE	-	172.0
220.0	BOND	MT. CARMEL	SANDSTONE	74.0	222.0
90.0	PATOKA	MACOUPIN	LIMESTONE	2.0	352.0
6.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.5	436.0
-192.0	SHELBURN	DANVILLE	COAL	2.0	634.0
-242.0	CARBONDALE	HERRIN	COAL	3.5	684.0
-303.0	CARBONDALE	BRIAR HILL	COAL	-	745.0
-335.0	CARBONDALE	SPRINGFIELD	COAL	4.8	777.0
-402.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	844.0
-490.0	CARBONDALE	COLCHESTER	COAL	-	932.0
-550.0	CARBONDALE	DAVIS	COAL	3.0	992.0

MAPID: 18504640001M VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 24 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.799757 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.503858 DATE COLLECTED: 0 / 0 / 1980

SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 51.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: PARKINSON MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
419.0	MATTOON	FRIENDSVILLE	COAL	3.0	48.0

MAPID: 18527419000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 24

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.815865

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.500565

DATE COLLECTED: 9 / 2 / 1981

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH

101212

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	11.0	0.0	
449.0	MATTOON		SANDSTONE	6.0	11.0	
443.0	MATTOON		GRAY SHALE	3.0	17.0	
440.0	MATTOON		COAL	2.0	20.0	DO NOT USE FOR RESOURCE CALCULATIONS
438.0	MATTOON		GRAY SHALE	6.0	22.0	
432.0	MATTOON		COAL	1.0	28.0	DO NOT USE FOR RESOURCE CALCULATIONS
431.0	MATTOON		GRAY SHALE	11.0	29.0	
420.0	MATTOON		SANDSTONE	4.0	40.0	
416.0	MATTOON		SANDY SHALE	10.0	44.0	
406.0	MATTOON		DARK SHALE	11.0	54.0	
395.0	MATTOON	FRIENDSVILLE	COAL	5.0	65.0	DO NOT USE FOR RESOURCE CALCULATIONS
390.0	BOND		LIMESTONE	1.0	70.0	
389.0	BOND		DARK SHALE	29.0	71.0	
360.0	BOND		SANDSTONE	35.0	100.0	

MAPID: 18527420000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 24

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.815865

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.500565

DATE COLLECTED: 9 / 2 / 1981

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH

101211

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	20.0	0.0	
440.0	MATTOON		COAL	2.0	20.0	DO NOT USE FOR RESOURCE CALCULATIONS
438.0	MATTOON		GRAY SHALE	18.0	22.0	
420.0	MATTOON		SANDSTONE	20.0	40.0	
400.0	MATTOON		DARK SHALE	10.0	60.0	
390.0	MATTOON	FRIENDSVILLE	COAL	2.0	70.0	DO NOT USE FOR RESOURCE CALCULATIONS
388.0	BOND		DARK SHALE	3.0	72.0	
385.0	BOND		SANDY SHALE	8.0	75.0	
377.0	BOND		COAL	2.0	83.0	DO NOT USE FOR RESOURCE CALCULATIONS
375.0	BOND		GRAY SHALE	5.0	85.0	
370.0	BOND		SANDSTONE	43.0	90.0	
327.0	BOND		COAL	2.0	133.0	DO NOT USE FOR RESOURCE CALCULATIONS

MAPID: 18527579000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 24

QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: LANCASTER

LONGITUDE: -87.80432

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.502155

DATE COLLECTED: 5 / 30 / 1986

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 255.0

LOG TYPE: Drillers Log

SOURCE: JAMES SPETH 124172

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	15.0	0.0	
435.0	MATTOON		COAL	2.0	15.0	DO NOT USE FOR RESOURCE CALCULATIONS
433.0	MATTOON		UNDERCLAY	12.0	17.0	
421.0	MATTOON		GRAY SHALE	4.0	29.0	
417.0	MATTOON		SANDY SHALE	2.0	33.0	
415.0	MATTOON		SANDSTONE	8.0	35.0	
407.0	MATTOON		SANDY SHALE	11.0	43.0	
396.0	MATTOON	FRIENDSVILLE	COAL	3.0	54.0	DO NOT USE FOR RESOURCE CALCULATIONS
393.0	BOND		LIMESTONE	2.0	57.0	
391.0	BOND		GRAY SHALE	3.0	59.0	
388.0	BOND		LIMESTONE	1.0	62.0	
387.0	BOND		GRAY SHALE	5.0	63.0	
382.0	BOND		COAL	2.0	68.0	DO NOT USE FOR RESOURCE CALCULATIONS
380.0	BOND		GRAY SHALE	3.0	70.0	
377.0	BOND		LIMESTONE	2.0	73.0	
375.0	BOND		GRAY SHALE	3.0	75.0	
372.0	BOND		COAL	2.0	78.0	DO NOT USE FOR RESOURCE CALCULATIONS
370.0	BOND		GRAY SHALE	1.0	80.0	
369.0	BOND		LIMESTONE	2.0	81.0	
367.0	BOND		SANDY SHALE	6.0	83.0	
361.0	BOND		SANDSTONE	36.0	89.0	
325.0	BOND	WITT	COAL	2.0	125.0	DO NOT USE FOR RESOURCE CALCULATIONS
323.0	BOND		DARK SHALE	2.0	127.0	
321.0	BOND	WITT	COAL	4.0	129.0	DO NOT USE FOR RESOURCE CALCULATIONS
317.0	BOND		LIMESTONE	3.0	133.0	
314.0	BOND		GRAY SHALE	8.0	136.0	
306.0	BOND		SANDSTONE	12.0	144.0	
294.0	BOND		DARK SHALE	14.0	156.0	
280.0	BOND	FLANNIGAN	COAL	2.0	170.0	DO NOT USE FOR RESOURCE CALCULATIONS
278.0	BOND		SANDY SHALE	83.0	172.0	

MAPID: 18502580000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 25 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.801956 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.49131 DATE COLLECTED: 5 / 27 / 1957
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 1671.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
297.0	BOND	REEL	LIMESTONE	3.0	128.0
252.0	BOND	MT. CARMEL	SANDSTONE	77.0	173.0
117.0	PATOKA	MACOUPIN	LIMESTONE	1.6	308.0
38.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	387.0
-162.0	SHELBURN	DANVILLE	COAL	1.8	587.0
-212.0	CARBONDALE	HERRIN	COAL	2.8	637.0
-257.0	CARBONDALE	BRIAR HILL	COAL	1.2	682.0
-282.0	CARBONDALE	SPRINGFIELD	COAL	3.5	707.0
-383.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	808.0
-475.0	CARBONDALE	COLCHESTER	COAL	-	900.0
-527.0	CARBONDALE	DAVIS	COAL	5.0	952.0
-555.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	980.0

MAPID: 18502580000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 25 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.801956 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.49131 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 1671.0 LOG TYPE: Electric Log
SOURCE: VICKERY DRLG. CO., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-212.0	CARBONDALE	HERRIN	COAL	3.0	637.0
-257.0	CARBONDALE	BRIAR HILL	COAL	-	682.0
-282.0	CARBONDALE	SPRINGFIELD	COAL	3.0	707.0
-380.0	CARBONDALE	HOUCHIN CREEK	COAL	-	805.0

MAPID: 18505336000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 25 QUARTERS/FOOTAGES: NW NW SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816977 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.484684 DATE COLLECTED: 7 / 28 / 1957

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 47 FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP#2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	17.0	0.0	
458.0			GRAY SHALE	16.6	17.0	
441.4			SHALE	4.4	33.6	DK GRAY
437.0			SHALY COAL	1.1	38.0	WITH PYRITE
435.9			CLAYSTONE	2.8	39.1	GRAY
433.1			COAL	0.5	41.9	
432.6			CLAYSTONE	10.1	42.4	WITH LIMESTONE NODULES; GRAY
422.5			ARGILACEOUS SHALE	3.2	52.5	
419.3			GRAY SHALE	16.3	55.7	WITH SANDY STREAKS
403.0			ARGILACEOUS SHALE	6.7	72.0	
396.3			PYRITE	0.1	78.7	
396.2			SHALY COAL	3.6	78.8	WITH PYRITE
392.6			PYRITE	0.1	82.4	
392.5			SANDY CLAYSTONE	3.7	82.5	DK GRAY
388.8			FOSSILIFEROUS SHALE	0.5	86.2	
388.3			FOSSILIFEROUS LIMESTONE	0.8	86.7	GRAY
387.6			SANDY SHALE	0.6	87.4	

MAPID: 18500036000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.83559 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.488096 DATE COLLECTED: 10 / 31 / 1942
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 2680.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0	MATTOON	FRIENDSVILLE	COAL	4.0	58.0	
403.0	BOND		COAL	1.5	95.0	UNCERTAIN CORRELATION
271.0	BOND	REEL	LIMESTONE	1.0	227.0	
194.0	BOND	MT. CARMEL	SANDSTONE	32.0	304.0	
98.0	PATOKA	MACOUPIN	LIMESTONE	1.0	400.0	
18.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	480.0	
-171.0	SHELBURN	DANVILLE	COAL	2.0	669.0	
-214.0	CARBONDALE	HERRIN	COAL	3.0	712.0	
-272.0	CARBONDALE	BRIAR HILL	COAL	2.0	770.0	
-299.0	CARBONDALE	SPRINGFIELD	COAL	4.0	797.0	
-380.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	878.0	
-501.0	CARBONDALE	COLCHESTER	COAL	-	999.0	
-550.0	CARBONDALE	DAVIS	COAL	4.0	1048.0	
-582.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1080.0	

MAPID: 18500036000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.83559 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.488096 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 2680.0 LOG TYPE: Electric Log
SOURCE: CENTRAL PIPELINE CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-212.0	CARBONDALE	HERRIN	COAL	3.0	710.0	
-272.0	CARBONDALE	BRIAR HILL	COAL	-	770.0	
-299.0	CARBONDALE	SPRINGFIELD	COAL	4.0	797.0	
-380.0	CARBONDALE	HOUCHIN CREEK	COAL	-	878.0	

MAPID: 18500036000C VERSION: 3

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.83559 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.488096 DATE COLLECTED: 11 / 0 / 1942

SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 890.0 LOG TYPE: Drillers Log

SOURCE: CENTRAL PIPE LINE 1 WELL TYPE: Plugged and/or Abandoned

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
498.0			NO RECORD	4.5	0.0	NO RECORD GIVEN IN LOG
493.5			UNCONSOLIDATED	13.5	4.5	SOIL, CLAY, AND MUD
480.0	MATTOON	KEENSBURG	SANDSTONE	9.0	18.0	
471.0	MATTOON		GRAY SILTSTONE	6.0	27.0	
465.0	MATTOON		COAL	1.0	33.0	DO NOT USE FOR RESOURCE CALCULATIONS
464.0	MATTOON		LIMESTONE	1.5	34.0	
462.5	MATTOON		GRAY SHALE	1.5	35.5	
461.0	MATTOON		SANDSTONE	5.0	37.0	
456.0	MATTOON		GRAY SHALE	11.0	42.0	
445.0	MATTOON	FRIENDSVILLE	DARK SHALE	5.0	53.0	
440.0	MATTOON		COAL	4.0	58.0	DO NOT USE FOR RESOURCE CALCULATIONS
436.0	BOND		UNDERCLAY	2.0	62.0	
434.0	BOND		UNDERCLAY	2.0	64.0	
432.0	BOND		LIMESTONE	4.0	66.0	
428.0	BOND		SANDSTONE	5.0	70.0	
423.0	BOND		SANDSTONE	6.0	75.0	
417.0	BOND		SANDSTONE	4.0	81.0	
413.0	BOND		SANDSTONE	10.0	85.0	
403.0	BOND		SHALE	0.5	95.0	
402.5	BOND		COAL	1.5	95.5	DO NOT USE FOR RESOURCE CALCULATIONS
401.0	BOND	REEL	GRAY SILTSTONE	2.0	97.0	
399.0	BOND		DARK GRAY SHALE	2.0	99.0	
397.0	BOND		LIMESTONE	2.0	101.0	
395.0	BOND		GRAY SILTSTONE	0.5	103.0	
394.5	BOND		GRAY SHALE	5.5	103.5	
389.0	BOND		GRAY SILTSTONE	11.0	109.0	
378.0	BOND		GRAY SILTSTONE	35.0	120.0	
343.0	BOND		SANDSTONE	7.0	155.0	
336.0	BOND		GRAY SILTSTONE	21.0	162.0	
315.0	BOND		SANDSTONE	4.0	183.0	
311.0	BOND		GRAY SILTSTONE	17.0	187.0	
294.0	BOND		GRAY SILTSTONE	10.0	204.0	
284.0	BOND		GRAY SILTSTONE	9.0	214.0	
275.0	BOND		DARK GRAY SHALE	3.5	223.0	
271.5	BOND		BLACK SHALE	0.5	226.5	
271.0	BOND		LIMESTONE	1.0	227.0	
270.0	BOND		COAL	1.0	228.0	DO NOT USE FOR RESOURCE CALCULATIONS
269.0	BOND		UNDERCLAY	2.0	229.0	
267.0	BOND		GRAY SILTSTONE	2.0	231.0	

265.0	BOND		GRAY SHALE	9.0	233.0	
256.0	BOND		SANDSTONE	3.0	242.0	
253.0	BOND		GRAY SILTSTONE	5.0	245.0	
248.0	BOND		SANDSTONE	10.0	250.0	
238.0	BOND		SILTSTONE	7.0	260.0	
231.0	BOND		GRAY SHALE	5.0	267.0	
226.0	BOND		GRAY SHALE	4.0	272.0	
222.0	BOND		UNDERCLAY	1.0	276.0	
221.0	BOND		SHALE	3.0	277.0	
218.0	BOND		GRAY SILTSTONE	30.0	280.0	
188.0	BOND	MT. CARMEL	SANDSTONE	5.0	310.0	
183.0	BOND	MT. CARMEL	SANDSTONE	5.0	315.0	
178.0	BOND	MT. CARMEL	SANDSTONE	7.0	320.0	
171.0	BOND	MT. CARMEL	BLACK SHALE	1.0	327.0	BK SH W/ COAL STREAKS
170.0	BOND	MT. CARMEL	SANDSTONE	4.0	328.0	
166.0	BOND	MT. CARMEL	SHALE	1.0	332.0	SH W/ COAL STREAKS
165.0	BOND	MT. CARMEL	SANDSTONE	7.0	333.0	
158.0	BOND	MT. CARMEL	GRAY SHALE	2.0	340.0	
156.0	BOND	MT. CARMEL	COAL	1.0	342.0	DO NOT USE FOR RESOURCE CALCULATIONS
155.0	BOND	MT. CARMEL	UNDERCLAY	1.0	343.0	
154.0	BOND	MT. CARMEL	SANDSTONE	8.0	344.0	
146.0	PATOKA		GRAY SILTSTONE	20.0	352.0	
126.0	PATOKA		GRAY SILTSTONE	11.0	372.0	
115.0	PATOKA		GRAY SHALE	12.0	383.0	
103.0	PATOKA	MACOUPIN	LIMESTONE	1.0	395.0	
102.0	PATOKA		BLACK SHALE	1.0	396.0	
101.0	PATOKA	WOMAC	COAL	1.0	397.0	DO NOT USE FOR RESOURCE CALCULATIONS
100.0	PATOKA		UNDERCLAY	3.0	398.0	
97.0	PATOKA		GRAY SHALE	19.0	401.0	
78.0	PATOKA		SILTY SHALE	5.0	420.0	
73.0	PATOKA		GRAY SILTSTONE	5.0	425.0	
68.0	PATOKA		SANDSTONE	4.0	430.0	
64.0	PATOKA		GRAY SHALE	7.0	434.0	
57.0	PATOKA		GRAY SILTSTONE	1.0	441.0	
56.0	PATOKA		GRAY SHALE	14.0	442.0	
42.0	PATOKA		DARK GRAY SHALE	4.0	456.0	
38.0	SHELBURN	WEST FRANKLIN	LIMESTONE	1.0	460.0	
37.0	SHELBURN	WEST FRANKLIN	GRAY SHALE	4.0	461.0	
33.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	465.0	
29.0	SHELBURN	WEST FRANKLIN	BLACK SHALE	1.0	469.0	
28.0	SHELBURN	WEST FRANKLIN	UNDERCLAY	2.0	470.0	
26.0	SHELBURN	WEST FRANKLIN	CALCAREOUS SHALE	4.0	472.0	
22.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	476.0	
15.0	SHELBURN		SANDY SHALE	2.0	483.0	
13.0	SHELBURN		SANDSTONE	2.0	485.0	
11.0	SHELBURN		UNDERCLAY	3.0	487.0	
8.0	SHELBURN		UNDERCLAY	5.0	490.0	

3.0	SHELBURN		SANDSTONE	15.0	495.0	
-12.0	SHELBURN		GRAY SHALE	10.0	510.0	
-22.0	SHELBURN		GRAY SHALE	5.0	520.0	
-27.0	SHELBURN		NO RECORD	4.0	525.0	NO RECORD FOR INTERVAL IN LOG
-31.0	SHELBURN		NO RECORD	46.0	529.0	NO RECORD FOR INTERVAL IN LOG
-77.0	SHELBURN		NO RECORD	15.0	575.0	NO RECORD FOR INTERVAL IN LOG
-92.0	SHELBURN		GRAY SHALE	5.0	590.0	
-97.0	SHELBURN		GRAY SHALE	5.0	595.0	
-102.0	SHELBURN		GRAY SILTSTONE	5.0	600.0	
-107.0	SHELBURN		SANDSTONE	10.0	605.0	
-117.0	SHELBURN		CALCAREOUS SHALE	5.0	615.0	
-122.0	SHELBURN		LIMESTONE	2.0	620.0	
-124.0	SHELBURN		SANDSTONE	13.0	622.0	
-137.0	SHELBURN		GRAY SHALE	29.0	635.0	
-166.0	SHELBURN	DANVILLE	COAL	2.0	664.0	DO NOT USE FOR RESOURCE CALCULATIONS
-168.0	SHELBURN		GRAY SHALE	9.0	666.0	
-177.0	SHELBURN	BANKSTON FORK	LIMESTONE	2.5	675.0	
-179.5	SHELBURN	ANVIL ROCK	SANDSTONE	25.5	677.5	
-205.0	SHELBURN	BRERETON	LIMESTONE	2.0	703.0	
-207.0	CARBONDALE		DARK GRAY SHALE	2.0	705.0	
-209.0	CARBONDALE	HERRIN	COAL	4.0	707.0	DO NOT USE FOR RESOURCE CALCULATIONS
-213.0	CARBONDALE		UNDERCLAY	4.0	711.0	
-217.0	CARBONDALE		SANDSTONE	7.0	715.0	
-224.0	CARBONDALE		SANDSTONE	43.0	722.0	
-267.0	CARBONDALE		DARK GRAY SHALE	4.0	765.0	
-271.0	CARBONDALE		BLACK SHALE	1.0	769.0	
-272.0	CARBONDALE	BRIAR HILL	COAL	2.0	770.0	DO NOT USE FOR RESOURCE CALCULATIONS
-274.0	CARBONDALE		UNDERCLAY	1.0	772.0	
-275.0	CARBONDALE		GRAY SILTSTONE	3.0	773.0	
-278.0	CARBONDALE		SANDSTONE	4.0	776.0	
-282.0	CARBONDALE		GRAY SHALE	6.0	780.0	
-288.0	CARBONDALE		SANDSTONE	2.5	786.0	
-290.5	CARBONDALE	ST. DAVID	LIMESTONE	2.5	788.5	
-293.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	791.0	
-295.0	CARBONDALE	SPRINGFIELD	COAL	4.0	793.0	DO NOT USE FOR RESOURCE CALCULATIONS
-299.0	CARBONDALE		UNDERCLAY	1.0	797.0	
-300.0	CARBONDALE		GRAY SILTSTONE	5.0	798.0	
-305.0	CARBONDALE		SANDSTONE	47.0	803.0	
-352.0	CARBONDALE		GRAY SHALE	5.0	850.0	
-357.0	CARBONDALE		GRAY SHALE	6.0	855.0	
-363.0	CARBONDALE		GRAY SHALE	3.0	861.0	
-366.0	CARBONDALE		GRAY SILTSTONE	1.0	864.0	
-367.0	CARBONDALE		SHALE	1.0	865.0	
-368.0	CARBONDALE		LIMESTONE	2.0	866.0	
-370.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	868.0	DO NOT USE FOR RESOURCE CALCULATIONS
-371.0	CARBONDALE		SANDSTONE	12.0	869.0	
-383.0	CARBONDALE		GRAY SHALE	1.0	881.0	

-384.0	CARBONDALE	SANDSTONE	3.0	882.0
-387.0	CARBONDALE	SANDSTONE	4.0	885.0
-391.0	CARBONDALE	LIMESTONE	1.0	889.0

MAPID: 18500036000C VERSION: 5 PROJECT: CONTROL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.83559 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.488096 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2680.0 LOG TYPE: Survey Sample Study

SOURCE: CENTRAL PIPELINE 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: 18500098000C VERSION: 1 PROJECT: NCRDS87

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 3500' S line, 3450' W line

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.824623 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 38.491205 DATE COLLECTED: 0 / 0 / 1943

SURFACE ELEVATION (FT.): 481.0 LOGGED (FT.): 323.0 LOG TYPE: Drillers Log

SOURCE: NICK POTTS WELL TYPE: Unsuccessful or Unknown Results

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
481.0			UNCONSOLIDATED	25.0	0.0
456.0	MATTOON		SANDSTONE	7.0	25.0
449.0	MATTOON		SHALE	11.0	32.0
438.0	MATTOON	FRIENDSVILLE	COAL	2.0	43.0
436.0	MATTOON		SHALE	13.0	45.0
423.0	BOND	MILLERSVILLE	LIMESTONE	9.0	58.0
414.0	BOND		SHALE	14.0	67.0
400.0	BOND		COAL	3.0	81.0
397.0	BOND		SHALE	4.0	84.0
393.0	BOND		LIMESTONE	6.0	88.0
387.0	BOND		SHALE	31.0	94.0
356.0	BOND		SANDSTONE	26.0	125.0
330.0	BOND		BLACK SHALE	4.0	151.0
326.0	BOND		SHALE	2.0	155.0
324.0	BOND		SANDSTONE	21.0	157.0
303.0	BOND		DARK SHALE	37.0	178.0
266.0	BOND		SHALE	40.0	215.0
226.0	BOND		SANDSTONE	68.0	255.0

MAPID: 18500099000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835602 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.484399 DATE COLLECTED: 10 / 0 / 1942

SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1040.0 LOG TYPE: Drillers Log

SOURCE: W.E. BAILOR 3 WELL TYPE: Plugged and/or Abandoned

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
492.0			NO RECORD	66.0	0.0	NO RECORD GIVEN IN LOG
426.0	MATTOON		SANDSTONE	4.0	66.0	
422.0	MATTOON		GRAY SHALE	10.0	70.0	
412.0	MATTOON		SANDSTONE	4.0	80.0	
408.0	MATTOON		BLACK SHALE	2.0	84.0	
406.0	MATTOON	FRIENDSVILLE	COAL	4.0	86.0	DO NOT USE FOR RESOURCE CALCULATIONS
402.0	BOND		LIMESTONE	2.0	90.0	
400.0	BOND		SANDSTONE	10.0	92.0	
390.0	BOND		GRAY SILTSTONE	2.0	102.0	
388.0	BOND		GRAY SHALE	4.0	104.0	
384.0	BOND		BLACK SHALE	1.0	108.0	
383.0	BOND		COAL	1.0	109.0	DO NOT USE FOR RESOURCE CALCULATIONS
382.0	BOND		SANDSTONE	40.0	110.0	
342.0	BOND		GRAY SILTSTONE	4.0	150.0	
338.0	BOND		GRAY SHALE	4.0	154.0	
334.0	BOND		BLACK SHALE	1.0	158.0	
333.0	BOND	WITT	COAL	3.0	159.0	DO NOT USE FOR RESOURCE CALCULATIONS
330.0	BOND		LIMESTONE	2.0	162.0	
328.0	BOND		LIMESTONE	2.0	164.0	
326.0	BOND		SANDSTONE	8.0	166.0	
318.0	BOND		GRAY SILTSTONE	32.0	174.0	
286.0	BOND		GRAY SHALE	4.0	206.0	
282.0	BOND	REEL	LIMESTONE	4.0	210.0	
278.0	BOND		BLACK SHALE	2.0	214.0	
276.0	BOND		SANDSTONE	2.0	216.0	
274.0	BOND		GRAY SHALE	2.0	218.0	
272.0	BOND		GRAY SHALE	4.0	220.0	
268.0	BOND		GRAY SHALE	16.0	224.0	
252.0	BOND		GRAY SHALE	6.0	240.0	
246.0	BOND		SANDSTONE	6.0	246.0	
240.0	BOND		GRAY SHALE	4.0	252.0	
236.0	BOND		SANDSTONE	4.0	256.0	
232.0	BOND		GRAY SHALE	20.0	260.0	
212.0	BOND		GRAY SHALE	20.0	280.0	
192.0	BOND	MT. CARMEL	SANDSTONE	10.0	300.0	
182.0	BOND	MT. CARMEL	GRAY SHALE	2.0	310.0	
180.0	BOND	MT. CARMEL	SANDSTONE	8.0	312.0	
172.0	BOND		BLACK SHALE	1.0	320.0	
171.0	BOND		UNDERCLAY	3.0	321.0	

168.0	BOND		SANDSTONE	2.0	324.0	
166.0	BOND	CARTHAGE	LIMESTONE	2.0	326.0	
164.0	BOND		SANDSTONE	2.0	328.0	
162.0	BOND	CARTHAGE	LIMESTONE	2.0	330.0	
160.0	PATOKA		GRAY SHALE	4.0	332.0	
156.0	PATOKA		SANDSTONE	36.0	336.0	
120.0	PATOKA		BLACK SHALE	2.0	372.0	
118.0	PATOKA		SILTSTONE	14.0	374.0	
104.0	PATOKA		SANDSTONE	2.0	388.0	
102.0	PATOKA		BLACK SHALE	3.0	390.0	
99.0	PATOKA	WOMAC	COAL	1.0	393.0	DO NOT USE FOR RESOURCE CALCULATIONS
98.0	PATOKA		GRAY SHALE	2.0	394.0	
96.0	PATOKA		SANDSTONE	16.0	396.0	
80.0	PATOKA		SANDSTONE	36.0	412.0	
44.0	PATOKA		GRAY SHALE	20.0	448.0	
24.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	468.0	
19.0	SHELBURN	WEST FRANKLIN	GRAY SHALE	7.0	473.0	
12.0	SHELBURN	WEST FRANKLIN	SHALE	6.0	480.0	
6.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	486.0	
2.0	SHELBURN		SANDSTONE	10.0	490.0	
-8.0	SHELBURN		GRAY SHALE	10.0	500.0	
-18.0	SHELBURN		GRAY SHALE	4.0	510.0	
-22.0	SHELBURN		BLACK SHALE	2.0	514.0	
-24.0	SHELBURN		BLACK SHALE	14.0	516.0	
-38.0	SHELBURN		GRAY SHALE	12.0	530.0	
-50.0	SHELBURN		SANDSTONE	30.0	542.0	
-80.0	SHELBURN		SANDSTONE	86.0	572.0	
-166.0	SHELBURN	DANVILLE	COAL	4.0	658.0	DO NOT USE FOR RESOURCE CALCULATIONS
-170.0	SHELBURN		SANDSTONE	6.0	662.0	
-176.0	SHELBURN		LIMESTONE	2.0	668.0	
-178.0	SHELBURN		SANDY SHALE	6.0	670.0	
-184.0	SHELBURN		BLACK SHALE	2.0	676.0	BK SH W/ COAL PARTINGS
-186.0	SHELBURN		SANDSTONE	14.0	678.0	
-200.0	CARBONDALE		GRAY SHALE	5.0	692.0	
-205.0	CARBONDALE	HERRIN	COAL	4.0	697.0	DO NOT USE FOR RESOURCE CALCULATIONS
-209.0	CARBONDALE		GRAY SHALE	3.0	701.0	
-212.0	CARBONDALE		LIMESTONE	2.0	704.0	
-214.0	CARBONDALE		SANDSTONE	52.0	706.0	
-266.0	CARBONDALE		SHALE	3.0	758.0	
-269.0	CARBONDALE		BLACK SHALE	1.0	761.0	
-270.0	CARBONDALE	BRIAR HILL	COAL	2.0	762.0	DO NOT USE FOR RESOURCE CALCULATIONS
-272.0	CARBONDALE		SANDSTONE	14.0	764.0	
-286.0	CARBONDALE		LIMESTONE	2.0	778.0	
-288.0	CARBONDALE		BLACK SHALE	1.0	780.0	
-289.0	CARBONDALE	SPRINGFIELD	COAL	4.0	781.0	DO NOT USE FOR RESOURCE CALCULATIONS
-293.0	CARBONDALE		SANDSTONE	8.0	785.0	
-301.0	CARBONDALE		LIMESTONE	1.0	793.0	

-302.0	CARBONDALE		SANDSTONE	6.0	794.0	
-308.0	CARBONDALE		LIMESTONE	2.0	800.0	
-310.0	CARBONDALE		SANDSTONE	4.0	802.0	
-314.0	CARBONDALE		LIMESTONE	2.0	806.0	
-316.0	CARBONDALE		SANDSTONE	12.0	808.0	
-328.0	CARBONDALE		SILTY SHALE	18.0	820.0	
-346.0	CARBONDALE		SANDSTONE	26.0	838.0	
-372.0	CARBONDALE		BLACK SHALE	2.0	864.0	
-374.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	866.0	DO NOT USE FOR RESOURCE CALCULATIONS
-378.0	CARBONDALE		LIMESTONE	2.0	870.0	
-380.0	CARBONDALE		SILTY SHALE	16.0	872.0	
-396.0	CARBONDALE		SANDSTONE	76.0	888.0	
-472.0	CARBONDALE		BLACK SHALE	2.0	964.0	
-474.0	CARBONDALE		UNDERCLAY	1.0	966.0	
-475.0			SANDSTONE	7.0	967.0	
-482.0			BLACK SHALE	2.0	974.0	
-484.0			SANDSTONE	32.0	976.0	
-516.0			LIMESTONE	2.0	1008.0	
-518.0			SANDSTONE	12.0	1010.0	
-530.0			BLACK SHALE	2.0	1022.0	
-532.0			UNDERCLAY	2.0	1024.0	
-534.0			SANDSTONE	14.0	1026.0	

MAPID: 18500099000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835602 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.484399 DATE COLLECTED:

SURFACE ELEVATION (FT.): 486.0 LOGGED (FT.): 1774.0 LOG TYPE: Electric Log

SOURCE: BAILOR, W. E. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-212.0	CARBONDALE	HERRIN	COAL	3.0	698.0	
-279.0	CARBONDALE	BRIAR HILL	COAL	-	765.0	
-299.0	CARBONDALE	SPRINGFIELD	COAL	4.0	785.0	
-386.0	CARBONDALE	HOUCHIN CREEK	COAL	-	872.0	

MAPID: 18500099000C VERSION: 4

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835602 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.484399 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 1774.0 LOG TYPE: Survey Sample Study

SOURCE: BAILOR, W. 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: 18501314000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 450' W line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835168 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.488093 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 1780.0 LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	708.0
-	CARBONDALE	BRIAR HILL	COAL	-	758.0
-	CARBONDALE	SPRINGFIELD	COAL	4.0	794.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 18501586000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: 657' S line, 330' E line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818509 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.49063 DATE COLLECTED: 4 / 4 / 1949

SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 2630.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
331.0	BOND	WITT	COAL	1.0	126.0
267.0	BOND	REEL	LIMESTONE	-	190.0
225.0	BOND	MT. CARMEL	SANDSTONE	50.0	232.0
171.0	BOND	CARTHAGE	LIMESTONE	5.0	286.0
97.0	PATOKA	MACOUPIN	LIMESTONE	-	360.0
19.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	438.0
-170.0	SHELBURN	DANVILLE	COAL	2.0	627.0
-211.0	CARBONDALE	HERRIN	COAL	3.7	668.0
-283.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-301.0	CARBONDALE	SPRINGFIELD	COAL	6.0	758.0
-393.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	850.0
-507.0	CARBONDALE	COLCHESTER	COAL	-	964.0
-565.0	CARBONDALE	DAVIS	COAL	5.0	1022.0
-598.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1055.0

MAPID: 18505313000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 26 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828172 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.495368 DATE COLLECTED: 6 / 5 / 1957

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 4 FR WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE SE CORNER NW SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			UNCONSOLIDATED	10.0	0.0	
475.0			CLAY	5.0	10.0	GRAY
470.0			COAL	0.3	15.0	
469.7			CLAYSTONE	29.7	15.3	GRAY
440.0			SHALY SANDSTONE	4.2	45.0	GRAY
435.8			SANDY SHALE	14.3	49.2	
421.5			COAL	0.0	63.5	
421.5			PYRITE	0.1	63.5	
421.4			SHALY COAL	1.8	63.6	
419.6			CARBONACEOUS SHALE	0.4	65.4	
419.2			SANDY CLAYSTONE	2.4	65.8	GRAY
416.8			CLAYSTONE	0.4	68.2	WITH LIMESTONE NODULES; GRAY
416.4			LIMESTONE	2.3	68.6	GRAY
414.2			GRAY SHALE	1.5	70.8	
412.7			COAL	0.2	72.3	
412.5			ARGILACEOUS SHALE	5.2	72.5	
407.3			SHALY SANDSTONE	9.3	77.7	GRAY
398.0			GRAY SHALE	3.8	87.0	
394.2			COAL	0.5	90.8	
393.7			ARGILACEOUS SHALE	2.7	91.3	
391.0			GRAY SHALE	6.0	94.0	

MAPID: 18527422000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 26

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.820956

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.49159

DATE COLLECTED: 3 / 2 / 1983

SURFACE ELEVATION (FT.): 465.0

LOGGED (FT.): 153.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH

106322

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			CLAY	20.0	0.0	
445.0	MATTOON		SANDSTONE	6.0	20.0	
439.0	MATTOON		GRAY SHALE	1.0	26.0	
438.0	MATTOON		COAL	2.0	27.0	DO NOT USE FOR RESOURCE CALCULATIONS
436.0	MATTOON		GRAY SHALE	11.0	29.0	
425.0	MATTOON		SANDSTONE	43.0	40.0	
382.0	MATTOON	FRIENDSVILLE	COAL	3.0	83.0	DO NOT USE FOR RESOURCE CALCULATIONS
379.0	BOND		LIMESTONE	2.0	86.0	
377.0	BOND		DARK SHALE	22.0	88.0	
355.0	BOND		COAL	2.0	110.0	DO NOT USE FOR RESOURCE CALCULATIONS
353.0	BOND		GRAY SHALE	13.0	112.0	
340.0	BOND		SANDSTONE	28.0	125.0	

MAPID: 18501865000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.849512 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.490063 DATE COLLECTED: 11 / 14 / 1950

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 2739.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
373.0	MATTOON	FRIENDSVILLE	COAL	3.0	97.0
308.0	BOND	WITT	COAL	1.0	162.0
250.0	BOND	REEL	LIMESTONE	1.0	220.0
190.0	BOND	MT. CARMEL	SANDSTONE	52.0	280.0
122.0	BOND	CARTHAGE	LIMESTONE	2.0	348.0
60.0	PATOKA	MACOUPIN	LIMESTONE	2.0	410.0
-26.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	496.0
-238.0	SHELBURN	DANVILLE	COAL	2.5	708.0
-280.0	CARBONDALE	HERRIN	COAL	3.5	750.0
-345.0	CARBONDALE	BRIAR HILL	COAL	1.0	815.0
-376.0	CARBONDALE	SPRINGFIELD	COAL	4.0	846.0
-434.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	1.5	904.0
-524.0	CARBONDALE	COLCHESTER	COAL	-	994.0
-577.0	CARBONDALE	DAVIS	COAL	3.0	1047.0
-615.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1085.0

MAPID: 18501865000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.849512 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.490063 DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 2739.0 LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-280.0	CARBONDALE	HERRIN	COAL	3.0	750.0
-342.0	CARBONDALE	BRIAR HILL	COAL	-	812.0
-384.0	CARBONDALE	SPRINGFIELD	COAL	4.0	854.0
-430.0	CARBONDALE	HOUCHIN CREEK	COAL	-	900.0

MAPID: 18501867000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.868216 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.488416 DATE COLLECTED: 9 / 26 / 1953
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2770.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
282.0	BOND	WITT	COAL	-	148.0
222.0	BOND	REEL	LIMESTONE	1.2	208.0
160.0	BOND	MT. CARMEL	SANDSTONE	48.0	270.0
37.0	PATOKA	MACOUPIN	LIMESTONE	1.5	393.0
-50.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	480.0
-280.0	SHELBURN	DANVILLE	COAL	3.0	710.0
-316.0	CARBONDALE	HERRIN	COAL	4.0	746.0
-377.0	CARBONDALE	BRIAR HILL	COAL	1.0	807.0
-410.0	CARBONDALE	SPRINGFIELD	COAL	5.0	840.0
-473.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	903.0
-550.0	CARBONDALE	COLCHESTER	COAL	-	980.0
-600.0	CARBONDALE	DAVIS	COAL	3.0	1030.0
-635.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1065.0

MAPID: 18502816000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.865765 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.49574 DATE COLLECTED:
SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 2498.0 LOG TYPE: Electric Log
SOURCE: RICHEY ANCIL A WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-273.0	CARBONDALE	HERRIN	COAL	5.0	708.0
-325.0	CARBONDALE	BRIAR HILL	COAL	-	760.0
-360.0	CARBONDALE	SPRINGFIELD	COAL	5.0	795.0
-447.0	CARBONDALE	HOUCHIN CREEK	COAL	-	882.0

MAPID: 18502927000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 28 QUARTERS/FOOTAGES: 330' S line, 990' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.861286 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.482814 DATE COLLECTED: 5 / 22 / 1960

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 2544.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
302.0	BOND	WITT	COAL	-	148.0
238.0	BOND	REEL	LIMESTONE	1.0	212.0
196.0	BOND	MT. CARMEL	SANDSTONE	75.0	254.0
50.0	PATOKA	MACOUPIN	LIMESTONE	1.2	400.0
-34.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	484.0
-250.0	SHELBURN	DANVILLE	COAL	2.0	700.0
-283.0	CARBONDALE	HERRIN	COAL	3.7	733.0
-360.0	CARBONDALE	BRIAR HILL	COAL	1.2	810.0
-400.0	CARBONDALE	SPRINGFIELD	COAL	6.0	850.0
-458.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	908.0
-552.0	CARBONDALE	COLCHESTER	COAL	-	1002.0
-600.0	CARBONDALE	DAVIS	COAL	3.5	1050.0
-634.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1084.0

MAPID: 18505312000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 28

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.856523

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.486455

DATE COLLECTED: 6 / 6 / 1957

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

3 FR

WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE NW CORNER SE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	15.0	0.0	
425.0			SANDSTONE	3.2	15.0	GRAY
421.8			SANDSTONE	2.5	18.2	BROWN
419.3			BROWN SHALE	2.5	20.7	
416.8			GRAY SHALE	18.8	23.2	
398.0			CLAYSTONE	0.5	42.0	WITH LIMESTONE NODULES; GRAY
397.5			COAL	1.0	42.5	
396.5			CLAYSTONE	5.4	43.5	GRAY
391.1			SHALY SANDSTONE	39.9	48.9	GRAY
351.2			CARBONACEOUS SHALE	2.7	88.8	WITH PYRITE
348.5			SHALE	0.3	91.5	DK GRAY
348.2			LIMESTONE	1.6	91.8	GRAY
346.7			SANDY SHALE	1.7	93.3	
345.0			CLAYSTONE	1.2	95.0	WITH LIMESTONE NODULES; GRAY
343.8			GRAY SHALE	1.7	96.2	
342.2			COAL	0.4	97.8	
341.7			SANDY SHALE	1.8	98.3	

MAPID: 18505712000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 28

QUARTERS/FOOTAGES: 25' N line, 60' E line of NE SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.855534

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.489147

DATE COLLECTED: 11 / 15 / 1968

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 150.0

LOG TYPE: Drillers Log

SOURCE: PAUL W. POTTS

NF 3468

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
435.0	MATTOON		SANDSTONE	10.0	15.0	
425.0	MATTOON		GRAY SHALE	15.0	25.0	
410.0	MATTOON		DARK SHALE	7.0	40.0	
403.0	MATTOON	FRIENDSVILLE	COAL	2.0	47.0	DO NOT USE FOR RESOURCE CALCULATIONS
401.0	BOND		GRAY SHALE	11.0	49.0	
390.0	BOND		SANDSTONE	20.0	60.0	
370.0	BOND		DARK SHALE	7.0	80.0	
363.0	BOND		COAL	3.0	87.0	DO NOT USE FOR RESOURCE CALCULATIONS
360.0	BOND		DARK SHALE	4.0	90.0	
356.0	BOND		LIMESTONE	1.0	94.0	
355.0	BOND		SHALE	15.0	95.0	
340.0	BOND		LIMESTONE	10.0	110.0	
330.0	BOND		SANDSTONE	25.0	120.0	
305.0	BOND		SHALE	5.0	145.0	

MAPID: 18501871000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: BONE GAP LONGITUDE: -87.875264 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.484801 DATE COLLECTED: 11 / 10 / 1953
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2575.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
211.0	BOND	REEL	LIMESTONE	1.0	220.0
134.0	BOND	MT. CARMEL	SANDSTONE	30.0	297.0
31.0	PATOKA	MACOUPIN	LIMESTONE	1.6	400.0
-58.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	489.0
-293.0	SHELBURN	DANVILLE	COAL	4.0	724.0
-322.0	CARBONDALE	HERRIN	COAL	4.0	753.0
-369.0	CARBONDALE	BRIAR HILL	COAL	1.0	800.0
-399.0	CARBONDALE	SPRINGFIELD	COAL	5.0	830.0
-506.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	937.0
-578.0	CARBONDALE	COLCHESTER	COAL	-	1009.0
-648.0	CARBONDALE	DAVIS	COAL	3.0	1079.0
-674.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1105.0

MAPID: 18502817000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE
QUADRANGLE: BONE GAP LONGITUDE: -87.875168 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.49212 DATE COLLECTED:
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2517.0 LOG TYPE: Electric Log
SOURCE: ILLIANA DRLG CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-271.0	CARBONDALE	HERRIN	COAL	4.0	708.0
-331.0	CARBONDALE	BRIAR HILL	COAL	-	768.0
-365.0	CARBONDALE	SPRINGFIELD	COAL	6.0	802.0
-443.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 18527497000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 29

QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: BONE GAP

LONGITUDE: -87.886425

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.49024

DATE COLLECTED: 6 / 14 / 1985

SURFACE ELEVATION (FT.):

LOGGED (FT.): 180.0

LOG TYPE: Drillers Log

SOURCE: JAMES SPETH 118399

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	15.0	0.0	
-	MATTOON		LIMESTONE	1.0	15.0	
-	MATTOON		GRAY SHALE	4.0	16.0	
-	MATTOON		LIMESTONE	3.0	20.0	
-	MATTOON		GRAY SHALE	9.0	23.0	
-	MATTOON		SANDSTONE	8.0	32.0	
-	MATTOON		GRAY SHALE	16.0	40.0	
-	MATTOON	FRIENDSVILLE	COAL	3.0	56.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	15.0	59.0	
-	BOND		LIMESTONE	1.0	74.0	
-	BOND		SANDSTONE	12.0	75.0	
-	BOND		DARK SHALE	15.0	87.0	
-	BOND		COAL	3.0	102.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		LIMESTONE	1.0	105.0	
-	BOND		DARK SHALE	23.0	106.0	
-	BOND		SANDSTONE	6.0	129.0	
-	BOND		GRAY SHALE	5.0	135.0	
-	BOND		SANDSTONE	29.0	140.0	
-	BOND		LIMESTONE	3.0	169.0	
-	BOND		DARK SHALE	3.0	172.0	
-	BOND		LIMESTONE	2.0	175.0	
-	BOND		SANDY SHALE	3.0	177.0	

MAPID: 18501351000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: BONE GAP LONGITUDE: -87.893284 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.484689 DATE COLLECTED: 1 / 9 / 1947
SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 2858.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
344.0	MATTOON	FRIENDSVILLE	COAL	4.0	114.0
274.0	BOND	WITT	COAL	-	184.0
216.0	BOND	REEL	LIMESTONE	1.2	242.0
166.0	BOND	MT. CARMEL	SANDSTONE	62.0	292.0
28.0	PATOKA	MACOUPIN	LIMESTONE	1.0	430.0
-64.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	522.0
-302.0	SHELBURN	DANVILLE	COAL	4.0	760.0
-330.0	CARBONDALE	HERRIN	COAL	5.0	788.0
-389.0	CARBONDALE	BRIAR HILL	COAL	1.0	847.0
-427.0	CARBONDALE	SPRINGFIELD	COAL	8.0	885.0
-501.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	959.0
-577.0	CARBONDALE	COLCHESTER	COAL	-	1035.0
-646.0	CARBONDALE	DAVIS	COAL	4.0	1104.0
-677.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1135.0

MAPID: 18501351000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: BONE GAP LONGITUDE: -87.893284 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.484689 DATE COLLECTED:
SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 2858.0 LOG TYPE: Electric Log
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-331.0	CARBONDALE	HERRIN	COAL	5.0	789.0
-386.0	CARBONDALE	BRIAR HILL	COAL	-	844.0
-428.0	CARBONDALE	SPRINGFIELD	COAL	7.0	886.0
-496.0	CARBONDALE	HOUCHIN CREEK	COAL	-	954.0

MAPID: 18527425000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 30 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: BONE GAP LONGITUDE: -87.893221

GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.493894

DATE COLLECTED: 3 / 6 / 1981

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: DAVID SPETH 98599

WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	24.0	0.0	
451.0	MATTOON		GRAY SHALE	14.0	24.0	
437.0	MATTOON		COAL	2.0	38.0	DO NOT USE FOR RESOURCE CALCULATIONS
435.0	MATTOON		LIMESTONE	2.0	40.0	
433.0	MATTOON		GRAY SHALE	16.0	42.0	
417.0	MATTOON		LIMESTONE	5.0	58.0	
412.0	MATTOON		GRAY SHALE	37.0	63.0	
375.0	MATTOON	FRIENDSVILLE	COAL	2.0	100.0	DO NOT USE FOR RESOURCE CALCULATIONS
373.0	BOND		DARK SHALE	14.0	102.0	
359.0	BOND		LIMESTONE	4.0	116.0	
355.0	BOND		SANDSTONE	6.0	120.0	
349.0	BOND		DARK SHALE	20.0	126.0	
329.0	BOND		COAL	2.0	146.0	DO NOT USE FOR RESOURCE CALCULATIONS
327.0	BOND		LIMESTONE	1.0	148.0	
326.0	BOND		DARK SHALE	11.0	149.0	
315.0	BOND		SANDSTONE	6.0	160.0	
309.0	BOND		DARK SHALE	59.0	166.0	
250.0	BOND		SANDSTONE	25.0	225.0	
225.0	BOND		DARK SHALE	18.0	250.0	
207.0	BOND	FLANNIGAN	COAL	2.0	268.0	DO NOT USE FOR RESOURCE CALCULATIONS
205.0	BOND		LIMESTONE	3.0	270.0	
202.0	BOND		DARK SHALE	27.0	273.0	
175.0	BOND	MT. CARMEL	SANDSTONE	45.0	300.0	

MAPID: 18502410000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 31 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SE

QUADRANGLE: BONE GAP LONGITUDE: -87.895786 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.467946 DATE COLLECTED:

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 2857.0 LOG TYPE: Electric Log

SOURCE: HOUCHINS D J WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-276.0	CARBONDALE	HERRIN	COAL	3.0	708.0
-343.0	CARBONDALE	BRIAR HILL	COAL	-	775.0
-372.0	CARBONDALE	SPRINGFIELD	COAL	4.0	804.0
-468.0	CARBONDALE	HOUCHIN CREEK	COAL	-	900.0

MAPID: 18500696000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NW

QUADRANGLE: BONE GAP LONGITUDE: -87.886525 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.479119 DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 2890.0 LOG TYPE: Electric Log

SOURCE: CENTRAL PIPELINE CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-338.0	CARBONDALE	HERRIN	COAL	5.0	786.0
-394.0	CARBONDALE	BRIAR HILL	COAL	-	842.0
-431.0	CARBONDALE	SPRINGFIELD	COAL	6.0	879.0
-508.0	CARBONDALE	HOUCHIN CREEK	COAL	-	956.0

MAPID: 18502839000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE

QUADRANGLE: BONE GAP LONGITUDE: -87.877659 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.469673 DATE COLLECTED: 1 / 23 / 1959

SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 2011.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
219.0	BOND	REEL	LIMESTONE	1.8	192.0
191.0	BOND	MT. CARMEL	SANDSTONE	70.0	220.0
123.0	BOND	CARTHAGE	LIMESTONE	2.0	288.0
37.0	PATOKA	MACOUPIN	LIMESTONE	1.0	374.0
-50.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	461.0
-285.0	SHELBURN	DANVILLE	COAL	3.7	696.0
-312.0	CARBONDALE	HERRIN	COAL	4.5	723.0
-378.0	CARBONDALE	BRIAR HILL	COAL	1.5	789.0
-413.0	CARBONDALE	SPRINGFIELD	COAL	5.5	824.0
-494.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	905.0
-557.0	CARBONDALE	COLCHESTER	COAL	-	968.0
-624.0	CARBONDALE	DAVIS	COAL	3.5	1035.0
-648.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1059.0

MAPID: 18502843000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 32 QUARTERS/FOOTAGES: 430' S line, 330' E line of SW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.879998 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.467996 DATE COLLECTED: 5 / 14 / 1959

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 2029.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
230.0	BOND	REEL	LIMESTONE	1.0	182.0
157.0	BOND	MT. CARMEL	SANDSTONE	45.0	255.0
47.0	PATOKA	MACOUPIN	LIMESTONE	1.0	365.0
-43.0	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	455.0
-273.0	SHELBURN	DANVILLE	COAL	4.0	685.0
-298.0	CARBONDALE	HERRIN	COAL	4.0	710.0
-358.0	CARBONDALE	BRIAR HILL	COAL	1.0	770.0
-395.0	CARBONDALE	SPRINGFIELD	COAL	7.0	807.0
-498.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	910.0
-583.0	CARBONDALE	COLCHESTER	COAL	-	995.0
-618.0	CARBONDALE	DAVIS	COAL	4.0	1030.0
-657.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	3.0	1069.0

MAPID: 18505022000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 32

QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: BONE GAP

LONGITUDE: -87.884433

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.471573

DATE COLLECTED: 2 / 21 / 1961

SURFACE ELEVATION (FT.): 427.0

LOGGED (FT.): 2563.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
297.0	BOND	WITT	COAL	-	130.0
226.0	BOND	REEL	LIMESTONE	1.0	201.0
207.0	BOND	MT. CARMEL	SANDSTONE	84.0	220.0
117.0	BOND	CARTHAGE	LIMESTONE	4.0	310.0
45.0	PATOKA	MACOUPIN	LIMESTONE	1.0	382.0
-43.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	470.0
-278.0	SHELBURN	DANVILLE	COAL	3.0	705.0
-305.0	CARBONDALE	HERRIN	COAL	3.5	732.0
-373.0	CARBONDALE	BRIAR HILL	COAL	1.0	800.0
-408.0	CARBONDALE	SPRINGFIELD	COAL	4.0	835.0
-485.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	912.0
-548.0	CARBONDALE	COLCHESTER	COAL	-	975.0
-618.0	CARBONDALE	DAVIS	COAL	4.0	1045.0
-643.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1070.0

MAPID: 18501873000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.866072 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.475236 **DATE COLLECTED:** 5 / 15 / 1950
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2750.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
290.0	BOND	WITT	COAL	3.5	128.0
233.0	BOND	REEL	LIMESTONE	1.0	185.0
206.0	BOND	MT. CARMEL	SANDSTONE	104.0	212.0
102.0	BOND	CARTHAGE	LIMESTONE	3.0	316.0
43.0	PATOKA	MACOUPIN	LIMESTONE	1.0	375.0
-45.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	463.0
-272.0	SHELBURN	DANVILLE	COAL	2.8	690.0
-302.0	CARBONDALE	HERRIN	COAL	4.0	720.0
-370.0	CARBONDALE	BRIAR HILL	COAL	1.0	788.0
-406.0	CARBONDALE	SPRINGFIELD	COAL	7.5	824.0
-476.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	894.0
-544.0	CARBONDALE	COLCHESTER	COAL	-	962.0
-611.0	CARBONDALE	DAVIS	COAL	3.0	1029.0
-638.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1056.0

MAPID: 18501873000C **VERSION:** 2 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1N 13W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.866072 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.475236 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 2750.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-302.0	CARBONDALE	HERRIN	COAL	4.0	720.0
-368.0	CARBONDALE	BRIAR HILL	COAL	-	786.0
-406.0	CARBONDALE	SPRINGFIELD	COAL	8.0	824.0
-472.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0

MAPID: 18500697000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.847504 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.469518 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 1778.0 LOG TYPE: Electric Log
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	658.0
-	CARBONDALE	BRIAR HILL	COAL	-	720.0
-	CARBONDALE	SPRINGFIELD	COAL	3.0	743.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	854.0

MAPID: 18503959000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.85442 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.475151 DATE COLLECTED: 8 / 13 / 1954
SURFACE ELEVATION (FT.): 454.0 LOGGED (FT.): 2726.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
314.0	BOND	WITT	COAL	-	140.0
260.0	BOND	REEL	LIMESTONE	-	194.0
204.0	BOND	MT. CARMEL	SANDSTONE	63.0	250.0
69.0	PATOKA	MACOUPIN	LIMESTONE	1.0	385.0
-16.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	470.0
-236.0	SHELBURN	DANVILLE	COAL	2.5	690.0
-269.0	CARBONDALE	HERRIN	COAL	3.8	723.0
-346.0	CARBONDALE	BRIAR HILL	COAL	1.0	800.0
-381.0	CARBONDALE	SPRINGFIELD	COAL	5.0	835.0
-450.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	904.0
-530.0	CARBONDALE	COLCHESTER	COAL	-	984.0
-578.0	CARBONDALE	DAVIS	COAL	5.0	1032.0
-614.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1068.0

MAPID: 18501617000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823634 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.473142 DATE COLLECTED: 3 / 1 / 1949
SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 2686.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
336.0	BOND	WITT	COAL	-	130.0
271.0	BOND	REEL	LIMESTONE	1.0	195.0
216.0	BOND	MT. CARMEL	SANDSTONE	76.0	250.0
88.0	PATOKA	MACOUPIN	LIMESTONE	1.0	378.0
4.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.7	462.0
-190.0	SHELBURN	DANVILLE	COAL	3.0	656.0
-229.0	CARBONDALE	HERRIN	COAL	2.5	695.0
-294.0	CARBONDALE	BRIAR HILL	COAL	-	760.0
-304.0	CARBONDALE	SPRINGFIELD	COAL	4.0	770.0
-409.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	875.0
-529.0	CARBONDALE	COLCHESTER	COAL	-	995.0
-564.0	CARBONDALE	DAVIS	SANDSTONE	0.0	1030.0
-594.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1060.0

MAPID: 18501880000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835718 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.475037 DATE COLLECTED:
SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 2718.0 LOG TYPE: Electric Log
SOURCE: RYAN OIL CO., ETAL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-234.0	CARBONDALE	HERRIN	COAL	2.0	698.0
-296.0	CARBONDALE	BRIAR HILL	COAL	-	760.0
-325.0	CARBONDALE	SPRINGFIELD	COAL	4.0	789.0
-422.0	CARBONDALE	HOUCHIN CREEK	COAL	-	886.0

MAPID: 18505324000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1N 13W

SECTION: 35

QUARTERS/FOOTAGES: SE SE SE SW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.827928

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.467064

DATE COLLECTED: 6 / 23 / 1957

SURFACE ELEVATION (FT.): 435.0

LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

26 FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP @2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0			UNCONSOLIDATED	21.3	0.0	
413.8			GRAY SHALE	12.3	21.2	WITH SANDY STREAKS
401.6			BLACK SHALE	0.1	33.4	
401.5			CALCAREOUS CLAYSTONE	12.3	33.5	GRAY
389.3			SHALY COAL	3.1	45.7	
386.2			BLACK SHALE	0.3	48.8	WITH COAL STREAKS
385.9			SANDY SHALE	4.8	49.1	

MAPID: 18505927000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 35 QUARTERS/FOOTAGES: 675' N line, 75' E line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.827534 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.475955 DATE COLLECTED: 12 / 12 / 1969

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 764.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER 3-FR WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	20.0	0.0	& CLAY
420.0			GRAY SHALE	10.2	20.0	W/SANDSTONE
409.8			SANDSTONE	6.2	30.2	
403.6			GRAY SHALE	10.7	36.4	W/SANDSTONE
392.9			DARK SHALE	2.1	47.1	
390.8	MATTOON	FRIENDSVILLE	COAL	4.1	49.2	
386.7			GRAY SHALE	3.7	53.3	
383.1			SANDY SHALE	21.1	56.9	W/SANDSTONE
362.0			SANDSTONE	7.6	78.0	
354.4			SANDY SHALE	20.2	85.6	W/SANDSTONE
334.2			SANDSTONE	4.2	105.8	
330.0			GRAY SHALE	6.0	110.0	
324.0			DARK SHALE	2.5	116.0	
321.5			COAL	0.8	118.5	
320.7			SANDY SHALE	6.4	119.3	
314.3			SANDY SHALE	9.3	125.7	W/SANDSTONE STREAKS
305.0			SANDSTONE	38.8	135.0	
266.2			SANDY SHALE	11.0	173.8	W/SANDSTONE
255.2			DARK SHALE	0.8	184.8	
254.5			COAL	0.5	185.5	
254.0			SANDY SHALE	11.9	186.0	
242.1			SANDY SHALE	5.4	197.9	W/SANDSTONE
236.8			SANDSTONE	60.3	203.2	
176.4			SANDY SHALE	5.0	263.6	
171.4			SANDSTONE	13.4	268.6	
158.1			SANDY SHALE	8.1	281.9	W/SANDSTONE
150.0			SANDSTONE	20.9	290.0	
129.1			SANDSTONE	15.1	310.9	W/SANDY GRAY SHALE
114.1			GRAY SHALE	1.1	325.9	
113.0			SANDSTONE	33.1	327.0	W/GRAY SHALE
80.0			COAL	4.0	360.0	
76.0			SANDY SHALE	3.8	364.0	W/SANDSTONE
72.2			LIMESTONE	1.1	367.8	
71.1			SANDY SHALE	6.5	368.9	W/SANDSTONE
64.6			SHALE	4.6	375.4	MULTI
60.0			SANDY SHALE	58.0	380.0	W/SANDSTONE
2.0			COAL	0.5	438.0	
1.5			SANDY SHALE	5.2	438.5	W/SANDSTONE
-3.7			LIMESTONE	6.7	443.7	

-10.4			SHALE	10.7	450.4	W/SANDSTONE; MULTI
-21.0			SILTY SHALE	11.7	461.0	
-32.7			LIMESTONE	5.4	472.7	W/SANDSTONE STREAKS
-38.0			SANDSTONE	32.0	478.0	W/SANDY GRAY SHALE
-70.0			SANDY SHALE	55.0	510.0	W/SS STREAKS
-125.0			SHALE	69.0	565.0	W/SS STREAKS (79' WAS IN THICKNESS); ML
-194.0			LAMINATED SHALE	5.0	634.0	
-199.0	CARBONDALE	DANVILLE	COAL	1.1	639.0	
-200.1			UNDERCLAY	0.8	640.1	LT GRAY
-200.8			SANDY SHALE	3.7	640.8	W/SANDSTONE STREAKS
-204.5			LIMESTONE	0.5	644.5	
-205.0			SHALE	15.0	645.0	W/SANDSTONE STREAKS
-220.0			LIMESTONE	0.5	660.0	
-220.5			SANDSTONE	2.7	660.5	W/SANDY GRAY SHALE; GRAY
-223.2			FOSSILIFEROUS SHALE	3.2	663.2	
-226.4			SANDSTONE	0.3	666.4	BROWN
-226.6			DARK SHALE	0.2	666.6	W/COAL STREAKS
-226.8			CALCAREOUS SHALE	0.6	666.8	
-227.4			FOSSILIFEROUS LIMESTONE	1.2	667.4	GRAY
-228.6			FOSSILIFEROUS SHALE	0.4	668.6	
-228.9			LAMINATED SHALE	0.6	668.9	
-229.5			DARK SHALE	0.6	669.5	
-230.1	CARBONDALE	HERRIN	COAL	3.7	670.1	
-233.8			UNDERCLAY	0.1	673.8	
-233.9			SILTY SHALE	2.0	673.9	
-235.8			SANDY SHALE	3.3	675.8	5.30 FT. WAS IN THICKNESS
-239.2			SANDY SHALE	10.0	679.2	W/SANDSTONE STREAKS
-249.2			SANDSTONE	38.4	689.2	W/SANDY GRAY SHALE
-287.5			SANDY SHALE	3.9	727.5	W/SANDSTONE
-291.3			SHALE	5.5	731.3	DK GRAY
-296.8	CARBONDALE	BRIAR HILL	COAL	1.0	736.8	
-297.8			UNDERCLAY	0.4	737.8	
-298.2			SANDY SHALE	16.9	738.2	W/SANDSTONE
-315.0			SHALE	1.4	755.0	DK GRAY
-316.4	CARBONDALE	SPRINGFIELD	COAL	4.1	756.4	
-320.5			SILTY SHALE	0.5	760.5	
-321.0			SILTY SHALE	0.9	761.0	
-321.8			CALCAREOUS SHALE	0.9	761.8	
-322.7			LIMESTONE	2.1	762.7	

MAPID: 18527387000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 35 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828436 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.480629 DATE COLLECTED: 5 / 24 / 1985

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 160.0 LOG TYPE: Drillers Log

SOURCE: JAMES SPETH 118099 WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0			CLAY	15.0	0.0	
455.0	MATTOON		SANDSTONE	5.0	15.0	
450.0	MATTOON		SANDSTONE	5.0	20.0	
445.0	MATTOON		GRAY SHALE	11.0	25.0	
434.0	MATTOON		DARK SHALE	20.0	36.0	
414.0	MATTOON	FRIENDSVILLE	COAL	2.0	56.0	DO NOT USE FOR RESOURCE CALCULATIONS
412.0	BOND		LIMESTONE	3.0	58.0	
409.0	BOND		GRAY SHALE	22.0	61.0	
387.0	BOND		SANDY SHALE	11.0	83.0	
376.0	BOND		COAL	4.0	94.0	DO NOT USE FOR RESOURCE CALCULATIONS
372.0	BOND		LIMESTONE	14.0	98.0	
358.0	BOND		SANDY SHALE	13.0	112.0	
345.0	BOND		GRAY SHALE	12.0	125.0	
333.0	BOND		SANDSTONE	17.0	137.0	
316.0	BOND		GRAY SHALE	6.0	154.0	

MAPID: 18501881000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 36 QUARTERS/FOOTAGES: 330' S line, 578' W line of SE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810729 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.467399 DATE COLLECTED: 7 / 13 / 1949
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 0.0 LOG TYPE: Electric Log
SOURCE: C.H. MURDICK WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
359.0	BOND	WITT	COAL	-	120.0
297.0	BOND	REEL	LIMESTONE	1.0	182.0
289.0	BOND	MT. CARMEL	SANDSTONE	90.0	190.0
196.0	BOND	CARTHAGE	LIMESTONE	7.0	283.0
123.0	PATOKA	MACOUPIN	LIMESTONE	1.0	356.0
35.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	444.0
-156.0	SHELBURN	DANVILLE	COAL	3.0	635.0
-195.0	CARBONDALE	HERRIN	COAL	3.0	674.0
-259.0	CARBONDALE	BRIAR HILL	COAL	1.0	738.0
-290.0	CARBONDALE	SPRINGFIELD	COAL	3.0	769.0
-377.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	856.0
-491.0	CARBONDALE	COLCHESTER	COAL	-	970.0
-540.0	CARBONDALE	DAVIS	COAL	5.0	1019.0
-573.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1052.0

MAPID: 18501881000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 36 QUARTERS/FOOTAGES: 330' S line, 578' W line of SE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810729 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.467399 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2402.0 LOG TYPE: Electric Log
SOURCE: MURDOCK C H WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-195.0	CARBONDALE	HERRIN	COAL	2.0	674.0
-258.0	CARBONDALE	BRIAR HILL	COAL	-	737.0
-280.0	CARBONDALE	SPRINGFIELD	COAL	2.0	759.0
-377.0	CARBONDALE	HOUCHIN CREEK	COAL	-	856.0

MAPID: 18526411000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 36 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.809099 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.467405 DATE COLLECTED: 8 / 11 / 1977

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 318.0 LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 65198 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
490.0	MATTOON		GRAY SHALE	20.0	25.0	
470.0	MATTOON		LIGHT SHALE	10.0	45.0	
460.0	MATTOON		SANDSTONE	20.0	55.0	
440.0	MATTOON		GRAY SHALE	7.0	75.0	
433.0	MATTOON	FRIENDSVILLE	COAL	2.0	82.0	DO NOT USE FOR RESOURCE CALCULATIONS
431.0	BOND		LIMESTONE	2.0	84.0	
429.0	BOND		DARK SHALE	4.0	86.0	
425.0	BOND		GRAY SHALE	20.0	90.0	
405.0	BOND		SANDSTONE	10.0	110.0	
395.0	BOND		SANDSTONE	12.0	120.0	
383.0	BOND	WITT	COAL	1.0	132.0	DO NOT USE FOR RESOURCE CALCULATIONS
382.0	BOND		BLACK SHALE	7.0	133.0	
375.0	BOND		GRAY SHALE	5.0	140.0	
370.0	BOND		LIGHT SHALE	5.0	145.0	
365.0	BOND		LIMESTONE	2.0	150.0	
363.0	BOND		LIGHT SHALE	8.0	152.0	
355.0	BOND		GRAY SHALE	35.0	160.0	
320.0	BOND		BLACK SHALE	3.0	195.0	
317.0	BOND		GRAY SHALE	22.0	198.0	
295.0	BOND		SANDSTONE	15.0	220.0	
280.0	BOND		GRAY SHALE	10.0	235.0	
270.0	BOND		SANDSTONE	5.0	245.0	
265.0	BOND		GRAY SHALE	5.0	250.0	
260.0	BOND		SANDSTONE	5.0	255.0	
255.0	BOND		GRAY SHALE	18.0	260.0	
237.0	BOND	MT. CARMEL	SANDSTONE	22.0	278.0	
215.0	BOND	MT. CARMEL	SANDSTONE	18.0	300.0	

MAPID: 18526495000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1N 13W SECTION: 36 QUARTERS/FOOTAGES: 400' N line, 400' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806524 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.472785 DATE COLLECTED: 8 / 25 / 1979
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 2400.0 LOG TYPE: Nuclear Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
380.0	BOND	WITT	COAL	-	110.0
322.0	BOND	REEL	LIMESTONE	-	168.0
305.0	BOND	MT. CARMEL	SANDSTONE	108.0	185.0
130.0	PATOKA	MACOUPIN	LIMESTONE	1.0	360.0
55.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	435.0
-138.0	SHELBURN	DANVILLE	COAL	2.0	628.0
-177.0	CARBONDALE	HERRIN	COAL	3.6	667.0
-238.0	CARBONDALE	BRIAR HILL	COAL	1.0	728.0
-258.0	CARBONDALE	SPRINGFIELD	COAL	3.0	748.0
-348.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	838.0
-472.0	CARBONDALE	COLCHESTER	COAL	0.8	962.0
-519.0	CARBONDALE	DAVIS	COAL	5.0	1009.0
-545.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	4.5	1035.0

MAPID: 18500711000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 1 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.923162 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.554533 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 2990.0 LOG TYPE: Electric Log
SOURCE: ASHLAND OIL&REF. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-398.0	CARBONDALE	HERRIN	COAL	2.0	841.0
-451.0	CARBONDALE	BRIAR HILL	COAL	-	894.0
-504.0	CARBONDALE	SPRINGFIELD	COAL	6.0	947.0
-599.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1042.0

MAPID: 18502386000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 2 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.939509 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.55452 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2967.0 LOG TYPE: Electric Log
SOURCE: WRIGHT OIL CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-403.0	CARBONDALE	BRIAR HILL	COAL	-	828.0	
-481.0	CARBONDALE	SPRINGFIELD	COAL	4.0	906.0	
-557.0	CARBONDALE	HOUCHIN CREEK	COAL	-	982.0	

MAPID: 18500296000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 3 QUARTERS/FOOTAGES: 430' N line, 330' E line of SE SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.948933 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.543219 DATE COLLECTED:
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2960.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-367.0	CARBONDALE	HERRIN	COAL	3.0	775.0	
-486.0	CARBONDALE	SPRINGFIELD	COAL	4.0	894.0	
-572.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	

MAPID: 18500356000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 11 QUARTERS/FOOTAGES: 660' N line, 660' E line of NW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.936646 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.538829 DATE COLLECTED:
SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 2922.0 LOG TYPE: Electric Log
SOURCE: BENNETT BROS. DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-365.0	CARBONDALE	HERRIN	COAL	3.0	772.0	
-482.0	CARBONDALE	SPRINGFIELD	COAL	3.0	889.0	
-566.0	CARBONDALE	HOUCHIN CREEK	COAL	-	973.0	

MAPID: 18502079000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 12 QUARTERS/FOOTAGES: 330' S line, 990' E line of NE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.915447 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.534277 DATE COLLECTED:
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 2911.0 LOG TYPE: Electric Log
SOURCE: MIAMI OPERATING CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-358.0	CARBONDALE	HERRIN	COAL	-	810.0
-386.0	CARBONDALE	BRIAR HILL	COAL	-	838.0
-455.0	CARBONDALE	SPRINGFIELD	COAL	3.0	907.0
-555.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1007.0

MAPID: 18502636000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.931343 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.514141 DATE COLLECTED:
SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2276.0 LOG TYPE:
SOURCE: BELL, KENNETH C. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	444.0
-362.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	813.0
-1373.0			LIMESTONE	-	1824.0
-1825.0		BASE BARLOW	LIMESTONE	-	2276.0

MAPID: 18502636000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.931343 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.514141 DATE COLLECTED:
SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 2850.0 LOG TYPE: Electric Log
SOURCE: BELL, KENNETH C. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-411.0	CARBONDALE	HERRIN	COAL	4.0	813.0
-448.0	CARBONDALE	BRIAR HILL	COAL	-	850.0
-522.0	CARBONDALE	SPRINGFIELD	COAL	5.0	924.0
-571.0	CARBONDALE	HOUCHIN CREEK	COAL	-	973.0

MAPID: 18502421000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: BONE GAP LONGITUDE: -87.948999 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.499563 DATE COLLECTED:
SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2950.0 LOG TYPE: Electric Log
SOURCE: SABER CONST. & OPER. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-396.0	CARBONDALE	HERRIN	COAL	3.0	790.0	
-505.0	CARBONDALE	SPRINGFIELD	COAL	4.0	899.0	
-584.0	CARBONDALE	HOUCHIN CREEK	COAL	-	978.0	

MAPID: 18502495000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.940549 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.505004 DATE COLLECTED:
SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 2881.0 LOG TYPE: Electric Log
SOURCE: ATHENE DEV. CO., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-412.0	CARBONDALE	HERRIN	COAL	4.0	810.0	
-447.0	CARBONDALE	BRIAR HILL	COAL	-	845.0	
-520.0	CARBONDALE	SPRINGFIELD	COAL	4.0	918.0	
-582.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	

MAPID: 18502779000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.926609 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.503115 DATE COLLECTED:
SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2854.0 LOG TYPE: Electric Log
SOURCE: GRIFFITH WILBUR L WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-412.0	CARBONDALE	HERRIN	COAL	4.0	818.0	
-452.0	CARBONDALE	BRIAR HILL	COAL	-	858.0	
-512.0	CARBONDALE	SPRINGFIELD	COAL	5.0	918.0	
-584.0	CARBONDALE	HOUCHIN CREEK	COAL	-	990.0	

MAPID: 18505321000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 24 QUARTERS/FOOTAGES: SW SW SW SW

QUADRANGLE: BONE GAP LONGITUDE: -87.929506 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.497148 DATE COLLECTED: 6 / 20 / 1957

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 200.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 21 FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0			UNCONSOLIDATED	43.0	0.0	
402.0			FOSSILIFEROUS SHALE	3.7	43.0	
398.3			GRAY SHALE	0.7	46.7	
397.7			SHALY SANDSTONE	1.1	47.3	GRAY
396.6			GRAY SHALE	3.3	48.4	WITH SANDY STREAKS
393.2			GRAY SHALE	8.2	51.8	
385.1			ARGILACEOUS SHALE	1.3	59.9	
383.8			CALCAREOUS SHALE	4.1	61.2	
379.7			CALCAREOUS CLAYSTONE	2.2	65.3	GRAY
377.6			CALCAREOUS SHALE	6.2	67.4	
371.4			GRAY SHALE	3.8	73.6	
367.7			GRAY SHALE	14.9	77.3	WITH FINE SANDY STREAKS
352.7			SANDSTONE	1.5	92.3	WITH SHALEY STREAKS; GRAY
351.2			GRAY SHALE	0.7	93.8	
350.6			SANDSTONE	3.5	94.4	WITH SHALEY STREAKS; GRAY
347.1			GRAY SHALE	7.8	97.9	
339.2			COAL	0.4	105.8	
338.9			FOSSILIFEROUS BLACK SHALE	0.1	106.1	
338.7			COAL	0.5	106.3	
338.2			SHALE	1.0	106.8	DK GRAY
337.2			CALCAREOUS CLAYSTONE	9.1	107.8	GRAY
328.1			GRAY SHALE	2.8	116.9	
325.3			GRAY SHALE	8.3	119.7	WITH SANDY STREAKS
317.1			SANDSTONE	3.8	127.9	WITH SHALEY STREAKS; GRAY
313.2			GRAY SHALE	13.3	131.8	WITH SANDY STREAKS
300.0			CALCAREOUS SHALE	14.6	145.0	
285.4			FOSSILIFEROUS LIMESTONE	1.5	159.6	GRAY
283.9			SHALE	3.5	161.1	DK GRAY
280.4			GRAY SHALE	6.1	164.6	WITH FINE SANDY STREAKS
274.3			LIMESTONE	0.1	170.7	GRAY
274.2			GRAY SHALE	7.2	170.8	WITH FINE SANDY STREAKS
267.1			SHALY SANDSTONE	3.6	177.9	GRAY
263.5			BLACK SHALE	0.3	181.5	
263.2			CLAYSTONE	3.6	181.8	DK GRAY
259.7			SANDY SHALE	2.8	185.3	

256.8	SANDSTONE	5.6	188.2	GRAY
251.2	SANDSTONE	6.3	193.8	WITH SANDY STREAKS; GRAY

MAPID: 18502086000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 25 QUARTERS/FOOTAGES: 330' S line, 990' E line of NW

QUADRANGLE: BONE GAP LONGITUDE: -87.924091 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.490158 DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2924.0 LOG TYPE: Electric Log

SOURCE: GILLIAN, J. H. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-372.0	CARBONDALE	HERRIN	COAL	3.0	797.0	
-422.0	CARBONDALE	BRIAR HILL	COAL	-	847.0	
-475.0	CARBONDALE	SPRINGFIELD	COAL	7.0	900.0	
-541.0	CARBONDALE	HOUCHIN CREEK	COAL	-	966.0	

MAPID: 18502463000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NW

QUADRANGLE: BONE GAP LONGITUDE: -87.945256 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.494117 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2920.0 LOG TYPE: Electric Log

SOURCE: SABER CONST. & OPER. CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-403.0	CARBONDALE	HERRIN	COAL	4.0	797.0	
-422.0	CARBONDALE	BRIAR HILL	COAL	-	816.0	
-504.0	CARBONDALE	SPRINGFIELD	COAL	5.0	898.0	
-574.0	CARBONDALE	HOUCHIN CREEK	COAL	-	968.0	

MAPID: 18502428000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: BONE GAP LONGITUDE: -87.956545 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.490518 DATE COLLECTED:
SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2889.0 LOG TYPE: Electric Log
SOURCE: MURVIN, JOHN B. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-409.0	CARBONDALE	HERRIN	COAL	3.0	803.0	
-446.0	CARBONDALE	BRIAR HILL	COAL	-	840.0	
-500.0	CARBONDALE	SPRINGFIELD	COAL	5.0	894.0	
-596.0	CARBONDALE	HOUCHIN CREEK	COAL	-	990.0	

MAPID: 18502088000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
QUADRANGLE: BONE GAP LONGITUDE: -87.947111 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.470834 DATE COLLECTED:
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 3008.0 LOG TYPE: Electric Log
SOURCE: CULLUM & LAWHEAD WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-356.0	CARBONDALE	HERRIN	COAL	4.0	755.0	
-450.0	CARBONDALE	SPRINGFIELD	COAL	3.0	849.0	
-567.0	CARBONDALE	HOUCHIN CREEK	COAL	-	966.0	

MAPID: 18500266000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1N 14W SECTION: 36 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: BONE GAP LONGITUDE: -87.923909 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.47359 DATE COLLECTED:
SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2963.0 LOG TYPE: Electric Log
SOURCE: HILTON OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-322.0	CARBONDALE	HERRIN	COAL	3.0	750.0	
-384.0	CARBONDALE	BRIAR HILL	COAL	-	812.0	
-413.0	CARBONDALE	SPRINGFIELD	COAL	3.0	841.0	
-526.0	CARBONDALE	HOUCHIN CREEK	COAL	-	954.0	

MAPID: 18500466000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 4 QUARTERS/FOOTAGES: NE SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.755941 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.454263 DATE COLLECTED:

SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 2355.0 LOG TYPE: Electric Log

SOURCE: SUPERIOR OIL COMPANY WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-41.0	CARBONDALE	DANVILLE	COAL	-	446.0
-52.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	457.0
-75.0	CARBONDALE	HERRIN	COAL	3.0	480.0
-99.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	26.0	504.0
-135.0	CARBONDALE	BRIAR HILL	COAL	-	540.0
-161.0	CARBONDALE	SPRINGFIELD	COAL	4.0	566.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0

MAPID: 18500467000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.75838 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.461526 DATE COLLECTED: 5 / 25 / 1945

SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 2014.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
154.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	263.0
-45.0	SHELBURN	DANVILLE	COAL	3.0	462.0
-81.0	CARBONDALE	HERRIN	COAL	4.3	498.0
-150.0	CARBONDALE	BRIAR HILL	COAL	1.6	567.0
-183.0	CARBONDALE	SPRINGFIELD	COAL	5.3	600.0
-272.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	689.0
-355.0	CARBONDALE	COLCHESTER	COAL	-	772.0
-419.0	CARBONDALE	DAVIS	COAL	5.0	836.0
-452.0	TRADEWATER	CARRIER MILLS	SHALE	-	869.0

MAPID: 18502626000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 4 QUARTERS/FOOTAGES: 260' S line, 130' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.750573 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.452222 DATE COLLECTED: 12 / 2 / 1957
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2021.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
242.0	PATOKA	MACOUPIN	LIMESTONE	2.0	184.0
148.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.5	278.0
-52.0	SHELBURN	DANVILLE	COAL	3.0	478.0
-91.0	CARBONDALE	HERRIN	COAL	3.5	517.0
-144.0	CARBONDALE	BRIAR HILL	COAL	0.8	570.0
-174.0	CARBONDALE	SPRINGFIELD	COAL	4.0	600.0
-283.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	709.0
-316.0	CARBONDALE	SURVANT	COAL	1.0	742.0
-369.0	CARBONDALE	COLCHESTER	COAL	-	795.0
-419.0	CARBONDALE	DEKOVEN	COAL	3.0	845.0
-426.0	CARBONDALE	DAVIS	COAL	4.0	852.0
-457.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	883.0

MAPID: 18500234000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 40' N line, 660' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.77633 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.458852 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 610.0 LOG TYPE:
SOURCE: DEAN & MORTON WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
52.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	373.0
-185.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	610.0

MAPID: 18500334000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.767899 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.457983 DATE COLLECTED:
SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 2244.0 LOG TYPE:
SOURCE: DEAN & MORTON WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
130.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	272.0
-105.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	507.0
-1143.0			LIMESTONE	-	1545.0
-1567.0		BASE BARLOW	LIMESTONE	-	1969.0
-1842.0	RENAULT	BASE RENAULT	LIMESTONE	-	2244.0

MAPID: 18500359000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 312' S line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.777411 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.452611 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 1984.0 LOG TYPE:
SOURCE: OLDS OIL & CHEMICAL CORP WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
61.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	352.0
-162.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	575.0
-1173.0			LIMESTONE	-	1586.0
-1571.0		BASE BARLOW	LIMESTONE	-	1984.0

MAPID: 18500447000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES:
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.76907 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.458904 DATE COLLECTED:
SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 2394.0 LOG TYPE:
SOURCE: SUPERIOR OIL COMPANY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	408.0
-178.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	639.0
-1217.0			LIMESTONE	-	1678.0
-1661.0		BASE BARLOW	LIMESTONE	-	2122.0
-1933.0	RENAULT	BASE RENAULT	LIMESTONE	-	2394.0

MAPID: 18500451000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 312' S line, 455' E line of SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775372 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.452592 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 2270.0 LOG TYPE:
SOURCE: OLDS EDGAR O WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
115.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	302.0
-133.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	550.0
-1173.0			LIMESTONE	-	1590.0
-1577.0		BASE BARLOW	LIMESTONE	-	1994.0
-1853.0	RENAULT	BASE RENAULT	LIMESTONE	-	2270.0

MAPID: 18500453000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772664 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.456229 DATE COLLECTED:
SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 1976.0 LOG TYPE:
SOURCE: DEAN, MORTON & SKILES WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
114.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	288.0
-122.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	524.0
-1158.0			LIMESTONE	-	1560.0
-1574.0		BASE BARLOW	LIMESTONE	-	1976.0

MAPID: 18500454000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 0' S line, 330' E line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.774968 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.455339 DATE COLLECTED:
SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 1986.0 LOG TYPE:
SOURCE: MT. CARMEL DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
106.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	306.0
-125.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	537.0
-1172.0			LIMESTONE	-	1584.0
-1574.0		BASE BARLOW	LIMESTONE	-	1986.0

MAPID: 18500456000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 312' S line, 660' W line of NW SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.776276 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.454406 DATE COLLECTED:
SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 2257.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	-	
-130.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	541.0
-1163.0			LIMESTONE	-	1574.0
-1573.0		BASE BARLOW	LIMESTONE	-	1984.0
-1846.0	RENAULT	BASE RENAULT	LIMESTONE	-	2257.0

MAPID: 18500458000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770242 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.459824 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 1973.0 LOG TYPE:
SOURCE: DEAN & MORTON WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
121.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	282.0
-118.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	521.0
-1157.0			LIMESTONE	-	1560.0
-1570.0		BASE BARLOW	LIMESTONE	-	1973.0

MAPID: 18500459000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 2850' S line, 1750' W line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772513 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.459571 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 1972.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
73.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	330.0
-145.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	548.0
-1153.0			LIMESTONE	-	1556.0
-1569.0		BASE BARLOW	LIMESTONE	-	1972.0

MAPID: 18500460000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 201' N line, 990' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775165 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.458399 DATE COLLECTED:
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2260.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	372.0
-189.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	609.0
-1186.0			LIMESTONE	-	1606.0
-1583.0		BASE BARLOW	LIMESTONE	-	2003.0
-1840.0	RENAULT	BASE RENAULT	LIMESTONE	-	2260.0

MAPID: 18501254000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 280' W line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.768176 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.465222 DATE COLLECTED:
SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 2263.0 LOG TYPE:
SOURCE: MALIS S NAVEN BEN WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
126.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	298.0
-112.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	536.0
-1182.0			LIMESTONE	-	1606.0
-1563.0		BASE BARLOW	LIMESTONE	-	1987.0
-1839.0	RENAULT	BASE RENAULT	LIMESTONE	-	2263.0

MAPID: 18501408000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 859' N line, 728' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.776062 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.456587 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2263.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
46.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	367.0
-187.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	600.0
-1169.0			LIMESTONE	-	1582.0
-1574.0		BASE BARLOW	LIMESTONE	-	1987.0
-1850.0	RENAULT	BASE RENAULT	LIMESTONE	-	2263.0

MAPID: 18501898000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770216 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.458001 DATE COLLECTED:

SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 1972.0 LOG TYPE:

SOURCE: DEAN & MORTON WELL TYPE: Producer-Oil

COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	283.0
-114.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	520.0
-1149.0			LIMESTONE	-	1555.0
-1566.0		BASE BARLOW	LIMESTONE	-	1972.0

MAPID: 18501899000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 873' S line, 350' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770332 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.461325 DATE COLLECTED:

SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 2062.0 LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-89.0	CARBONDALE	DANVILLE	COAL	-	496.0
-103.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	510.0
-125.0	CARBONDALE	HERRIN	COAL	3.0	532.0
-150.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	27.0	557.0
-178.0	CARBONDALE	BRIAR HILL	COAL	-	585.0
-183.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	12.0	590.0
-205.0	CARBONDALE	SPRINGFIELD	COAL	4.0	612.0
-230.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	45.0	637.0
-309.0	CARBONDALE	HOUCHIN CREEK	COAL	-	716.0

MAPID: 18501900000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 873' S line, 838' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772045 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.461337 DATE COLLECTED:

SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 1978.0 LOG TYPE:

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
81.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	322.0
-143.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	546.0
-1149.0			LIMESTONE	-	1552.0
-1575.0		BASE BARLOW	LIMESTONE	-	1978.0

MAPID: 18501901000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 100' N line, 400' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772497 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.462269 DATE COLLECTED: 10 / 27 / 1952

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 1509.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
306.0	BOND	MT. CARMEL	SANDSTONE	65.0	98.0
172.0	PATOKA	MACOUPIN	LIMESTONE	1.0	232.0
80.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.5	324.0
-123.0	SHELBURN	DANVILLE	COAL	3.0	527.0
-152.0	CARBONDALE	HERRIN	COAL	4.0	556.0
-211.0	CARBONDALE	BRIAR HILL	COAL	1.6	615.0
-238.0	CARBONDALE	SPRINGFIELD	COAL	3.5	642.0
-341.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	745.0
-361.0	CARBONDALE	SURVANT	COAL	1.0	765.0
-410.0	CARBONDALE	COLCHESTER	COAL	-	814.0
-460.0	CARBONDALE	DAVIS	COAL	4.0	864.0
-491.0	TRADEWATER	CARRIER MILLS	SHALE	-	895.0

MAPID: 18501903000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.760697 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.46155 DATE COLLECTED:
SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 1972.0 LOG TYPE:
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	254.0
-79.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	486.0
-1565.0		BASE BARLOW	LIMESTONE	-	1972.0

MAPID: 18501904000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 536' N line, 580' W line of SE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.771848 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.461061 DATE COLLECTED:
SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2254.0 LOG TYPE:
SOURCE: MALIS S NAVEN BEN WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
83.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	323.0
-144.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	550.0
-1149.0			LIMESTONE	-	1555.0
-1574.0		BASE BARLOW	LIMESTONE	-	1980.0
-1848.0	RENAULT	BASE RENAULT	LIMESTONE	-	2254.0

MAPID: 18501905000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772688 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.458022 DATE COLLECTED:
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 1995.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
83.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	335.0
-152.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	570.0
-1167.0			LIMESTONE	-	1585.0
-1577.0		BASE BARLOW	LIMESTONE	-	1995.0

MAPID: 18501906000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 450' N line, 10' E line of SW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.773925 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.461313 DATE COLLECTED:
SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 1990.0 LOG TYPE:
SOURCE: MALIS S NAVEN BEN WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	354.0
-188.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	595.0
-1177.0			LIMESTONE	-	1584.0
-1583.0		BASE BARLOW	LIMESTONE	-	1990.0

MAPID: 18501907000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.770291 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.46344 DATE COLLECTED:
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 1994.0 LOG TYPE:
SOURCE: MALIS S NAVEN BEN WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	296.0
-121.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	536.0
-1150.0			LIMESTONE	-	1565.0
-1579.0		BASE BARLOW	LIMESTONE	-	1994.0

MAPID: 18501908000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.77271 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.459845 DATE COLLECTED:
SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 1979.0 LOG TYPE:
SOURCE: MALIS S NAVEN BEN WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	324.0
-140.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	544.0
-1150.0			LIMESTONE	-	1554.0
-1575.0		BASE BARLOW	LIMESTONE	-	1979.0

MAPID: 18502382000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775097 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.465265 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2317.0 LOG TYPE:
SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
56.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	357.0
-177.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	590.0
-1191.0			LIMESTONE	-	1604.0
-1629.0		BASE BARLOW	LIMESTONE	-	2042.0
-1904.0	RENAULT	BASE RENAULT	LIMESTONE	-	2317.0

MAPID: 18502634000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 450' N line, 330' E line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.765533 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.464873 DATE COLLECTED:
SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 1975.0 LOG TYPE:
SOURCE: GEORGE, T. W. TRUST WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
118.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	284.0
-118.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	520.0
-1198.0			LIMESTONE	-	1600.0
-1573.0		BASE BARLOW	LIMESTONE	-	1975.0

MAPID: 18504098000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 447' S line, 660' E line of NE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.77135 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.456541 DATE COLLECTED:
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 1971.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	280.0
-115.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	514.0
-1145.0			LIMESTONE	-	1544.0
-1572.0		BASE BARLOW	LIMESTONE	-	1971.0

MAPID: 18504099000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 830' N line, 330' E line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.760671 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.460169 DATE COLLECTED:
SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 1972.0 LOG TYPE:
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	250.0
-69.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	478.0
-1187.0			LIMESTONE	-	1596.0
-1563.0		BASE BARLOW	LIMESTONE	-	1972.0

MAPID: 18504105000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 400' N line, 440' W line of NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772395 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.465053 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 2270.0 LOG TYPE:
SOURCE: MALIS S NAVEN BEN WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
59.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	358.0
-183.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	600.0
-1187.0			LIMESTONE	-	1604.0
-1589.0		BASE BARLOW	LIMESTONE	-	2006.0
-1853.0	RENAULT	BASE RENAULT	LIMESTONE	-	2270.0

MAPID: 18505037000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 880' N line, 768' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.775923 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.456529 DATE COLLECTED:
SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2262.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT: WELL MAY BE FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
44.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	370.0
-188.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	602.0
-1156.0			LIMESTONE	-	1570.0
-1580.0		BASE BARLOW	LIMESTONE	-	1994.0
-1848.0	RENAULT	BASE RENAULT	LIMESTONE	-	2262.0

MAPID: 18505040000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 2014' N line, 470' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.767443 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.460567 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2230.0 LOG TYPE:

SOURCE: SKILES OIL CORP WELL TYPE: Water Injection

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	265.0
-111.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	505.0
-1150.0			LIMESTONE	-	1544.0
-1569.0		BASE BARLOW	LIMESTONE	-	1963.0
-1836.0	RENAULT	BASE RENAULT	LIMESTONE	-	2230.0

MAPID: 18505443000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 210' S line, 805' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.766149 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.452225 DATE COLLECTED: 7 / 1 / 1965

SURFACE ELEVATION (FT.): 401.0 LOGGED (FT.): 2067.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
237.0	PATOKA	MACOUPIN	LIMESTONE	1.0	164.0
137.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	264.0
-69.0	SHELBURN	DANVILLE	COAL	2.5	470.0
-102.0	CARBONDALE	HERRIN	COAL	3.3	503.0
-169.0	CARBONDALE	BRIAR HILL	COAL	1.0	570.0
-199.0	CARBONDALE	SPRINGFIELD	COAL	4.0	600.0
-299.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	700.0
-334.0	CARBONDALE	SURVANT	COAL	2.0	735.0
-389.0	CARBONDALE	COLCHESTER	COAL	-	790.0
-429.0	CARBONDALE	DAVIS	COAL	4.0	830.0
-459.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	860.0

MAPID: 18505443000C VERSION: 2 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 210' S line, 805' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.766149 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.452225 DATE COLLECTED:
SURFACE ELEVATION (FT.): 401.0 LOGGED (FT.): 1968.0 LOG TYPE:
SOURCE: TEXACO, INC. WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
138.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	263.0
-104.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	505.0
-1124.0			LIMESTONE	-	1525.0
-1567.0		BASE BARLOW	LIMESTONE	-	1968.0

MAPID: 18505458000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.76311 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.457947 DATE COLLECTED:
SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 2244.0 LOG TYPE:
SOURCE: HERRIN OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	254.0
-74.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	484.0
-1190.0			LIMESTONE	-	1600.0
-1567.0		BASE BARLOW	LIMESTONE	-	1977.0
-1834.0	RENAULT	BASE RENAULT	LIMESTONE	-	2244.0

MAPID: 18505459000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.76308 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.456146 DATE COLLECTED:
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 1975.0 LOG TYPE:
SOURCE: HERRIN OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	254.0
-74.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	482.0
-			LIMESTONE	-	
-1567.0		BASE BARLOW	LIMESTONE	-	1975.0

MAPID: 18505491000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 5 QUARTERS/FOOTAGES: 258' S line, 500' W line of SE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772111 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.45964 DATE COLLECTED:
SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 2243.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
72.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	333.0
-148.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	553.0
-1151.0			LIMESTONE	-	1556.0
-1575.0		BASE BARLOW	LIMESTONE	-	1980.0
-1838.0	RENAULT	BASE RENAULT	LIMESTONE	-	2243.0

MAPID: 18500184000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779794 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.458075 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2336.0 LOG TYPE:
SOURCE: LAMBERT BURR WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
45.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	380.0
-190.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	615.0
-1225.0			LIMESTONE	-	1650.0
-1641.0		BASE BARLOW	LIMESTONE	-	2066.0
-1911.0	RENAULT	BASE RENAULT	LIMESTONE	-	2336.0

MAPID: 18500276000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 330' W line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.796937 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.465476 DATE COLLECTED:
SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 2410.0 LOG TYPE:
SOURCE: OSBORNE PAUL F WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
72.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	374.0
-144.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	590.0
-1677.0		BASE BARLOW	LIMESTONE	-	2123.0
-1964.0	RENAULT	BASE RENAULT	LIMESTONE	-	2410.0

MAPID: 18500327000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779731 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.452673 DATE COLLECTED:
SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 2334.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
54.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	378.0
-180.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	612.0
-1245.0			LIMESTONE	-	1677.0
-1625.0		BASE BARLOW	LIMESTONE	-	2057.0
-1902.0	RENAULT	BASE RENAULT	LIMESTONE	-	2334.0

MAPID: 18500385000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 990' S line, 330' W line of SE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.791948 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.454528 DATE COLLECTED:
SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 2402.0 LOG TYPE:
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
56.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	410.0
-176.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	642.0
-1248.0			LIMESTONE	-	1714.0
-1668.0		BASE BARLOW	LIMESTONE	-	2134.0
-1936.0	RENAULT	BASE RENAULT	LIMESTONE	-	2402.0

MAPID: 18500450000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789404 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.452701 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2142.0 LOG TYPE:
SOURCE: AETNA OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	426.0
-185.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	664.0
-1241.0			LIMESTONE	-	1720.0
-1663.0		BASE BARLOW	LIMESTONE	-	2142.0

MAPID: 18501604000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787226 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.463573 DATE COLLECTED:
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2365.0 LOG TYPE:
SOURCE: HAYES, BANDER J. DRLG. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
63.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	367.0
-174.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	604.0
-1651.0		BASE BARLOW	LIMESTONE	-	2081.0
-1935.0	RENAULT	BASE RENAULT	LIMESTONE	-	2365.0

MAPID: 18501910000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787087 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.452694 DATE COLLECTED:
SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 2420.0 LOG TYPE:
SOURCE: DAVIS & JOHNSON DRLG WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	416.0
-186.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	657.0
-1246.0			LIMESTONE	-	1717.0
-1661.0		BASE BARLOW	LIMESTONE	-	2132.0
-1949.0	RENAULT	BASE RENAULT	LIMESTONE	-	2420.0

MAPID: 18501910000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787087 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.452694 DATE COLLECTED:

SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 2490.0 LOG TYPE: Electric Log

SOURCE: DAVIS & JOHNSON DRLG WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-156.0	CARBONDALE	DANVILLE	COAL	-	627.0
-186.0	CARBONDALE	HERRIN	COAL	3.0	657.0
-315.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	6.0	786.0
-231.0	CARBONDALE	BRIAR HILL	COAL	-	702.0
-235.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	7.0	706.0
-256.0	CARBONDALE	SPRINGFIELD	COAL	3.0	727.0
-359.0	CARBONDALE	HOUCHIN CREEK	COAL	-	830.0

MAPID: 18501910000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787087 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.452694 DATE COLLECTED: 9 / 9 / 1952

SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 2490.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
316.0	BOND	REEL	LIMESTONE	1.5	155.0
302.0	BOND	MT. CARMEL	SANDSTONE	87.0	169.0
143.0	PATOKA	MACOUPIN	LIMESTONE	1.0	328.0
54.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	417.0
-156.0	SHELBURN	DANVILLE	COAL	2.5	627.0
-186.0	CARBONDALE	HERRIN	COAL	3.0	657.0
-234.0	CARBONDALE	BRIAR HILL	COAL	1.0	705.0
-256.0	CARBONDALE	SPRINGFIELD	COAL	3.0	727.0
-359.0	CARBONDALE	HOUCHIN CREEK	COAL	1.9	830.0
-477.0	CARBONDALE	COLCHESTER	COAL	-	948.0
-492.0	CARBONDALE	DEKOVEN	COAL	1.0	963.0
-519.0	CARBONDALE	DAVIS	COAL	4.0	990.0
-551.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1022.0

MAPID: 18501911000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784679 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.46173 DATE COLLECTED: 6 / 6 / 1952
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 2455.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
303.0	BOND	MT. CARMEL	SANDSTONE	85.0	112.0
133.0	PATOKA	MACOUPIN	LIMESTONE	1.0	282.0
45.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	370.0
-164.0	SHELBURN	DANVILLE	COAL	2.3	579.0
-198.0	CARBONDALE	HERRIN	COAL	3.0	613.0
-254.0	CARBONDALE	BRIAR HILL	COAL	1.0	669.0
-275.0	CARBONDALE	SPRINGFIELD	COAL	3.0	690.0
-379.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	794.0
-400.0	CARBONDALE	SURVANT	COAL	1.0	815.0
-475.0	CARBONDALE	COLCHESTER	COAL	-	890.0
-524.0	CARBONDALE	DAVIS	COAL	5.0	939.0
-555.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	970.0

MAPID: 18501911000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784679 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.46173 DATE COLLECTED:
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 2360.0 LOG TYPE:
SOURCE: ELLISON GEORGE P WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
45.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	370.0
-199.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	614.0
-1235.0			LIMESTONE	-	1650.0
-1651.0		BASE BARLOW	LIMESTONE	-	2066.0
-1945.0	RENAULT	BASE RENAULT	LIMESTONE	-	2360.0

MAPID: 18502244000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.794312 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.458172 DATE COLLECTED:
SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 2400.0 LOG TYPE:
SOURCE: JET OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
65.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	385.0
-168.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	618.0
-			LIMESTONE	-	
-1668.0		BASE BARLOW	LIMESTONE	-	2118.0
-1950.0	RENAULT	BASE RENAULT	LIMESTONE	-	2400.0

MAPID: 18504108000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 230' E line of NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779508 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.463508 DATE COLLECTED:
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 610.0 LOG TYPE:
SOURCE: EVERTS, C. A. DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	368.0
-192.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	610.0

MAPID: 18505477000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779817 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.459898 DATE COLLECTED:
SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 2336.0 LOG TYPE:
SOURCE: WHITMER, E.L. INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1223.0			LIMESTONE	-	1647.0
-1639.0		BASE BARLOW	LIMESTONE	-	2063.0
-1912.0	RENAULT	BASE RENAULT	LIMESTONE	-	2336.0

MAPID: 18527436000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 6 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.77978 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.452666 **DATE COLLECTED:** 6 / 14 / 1984
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 195.0 **LOG TYPE:** Drillers Log
SOURCE: GEOLOGICAL AND WATER SURVEY 112900 **WELL TYPE:** Water Well
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
399.0			CLAY	13.0	0.0	
386.0	BOND		SANDSTONE	1.0	13.0	
385.0	BOND		LIMESTONE	2.0	14.0	
383.0	BOND		GRAY SHALE	27.0	16.0	
356.0	BOND	WITT	COAL	2.0	43.0	DO NOT USE FOR RESOURCE CALCULATIONS
354.0	BOND		GRAY SHALE	5.0	45.0	
349.0	BOND		DARK SHALE	46.0	50.0	
303.0	BOND	FLANNIGAN	COAL	4.0	96.0	
299.0	BOND		LIMESTONE	2.0	100.0	
297.0	BOND	MT. CARMEL	SANDSTONE	20.0	102.0	
277.0	BOND	MT. CARMEL	GRAY SHALE	7.0	122.0	
270.0	BOND	MT. CARMEL	SANDSTONE	66.0	129.0	

MAPID: 18500293000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.779539 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.443586 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 2310.0 **LOG TYPE:**
SOURCE: FIRST NAT'L. PETRO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	316.0	
-81.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	548.0	
-1153.0			LIMESTONE	-	1620.0	
-1573.0		BASE BARLOW	LIMESTONE	-	2040.0	
-1843.0	RENAULT	BASE RENAULT	LIMESTONE	-	2310.0	

MAPID: 18500299000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 994' S line, 330' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779619 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.447243 DATE COLLECTED:
SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 1998.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	306.0
-108.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	543.0
-1163.0			LIMESTONE	-	1598.0
-1563.0		BASE BARLOW	LIMESTONE	-	1998.0

MAPID: 18500300000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 1040' E line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.782072 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.445424 DATE COLLECTED:
SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 2025.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
77.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	372.0
-136.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	585.0
-1157.0			LIMESTONE	-	1606.0
-1576.0		BASE BARLOW	LIMESTONE	-	2025.0

MAPID: 18500332000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784391 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.441816 DATE COLLECTED:
SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 2314.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	322.0
-89.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	554.0
-1149.0			LIMESTONE	-	1614.0
-1570.0		BASE BARLOW	LIMESTONE	-	2035.0
-1849.0	RENAULT	BASE RENAULT	LIMESTONE	-	2314.0

MAPID: 18500335000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779579 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.445409 DATE COLLECTED:
SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 2019.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	306.0
-88.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	536.0
-1158.0			LIMESTONE	-	1606.0
-1571.0		BASE BARLOW	LIMESTONE	-	2019.0

MAPID: 18500336000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 990' N line, 330' E line of NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.77966 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.44903 DATE COLLECTED:
SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 1991.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
121.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	298.0
-135.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	554.0
-1166.0			LIMESTONE	-	1585.0
-1572.0		BASE BARLOW	LIMESTONE	-	1991.0

MAPID: 18500337000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 994' S line, 1040' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.782112 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.447258 DATE COLLECTED:
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2017.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
67.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	370.0
-165.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	602.0
-1161.0			LIMESTONE	-	1598.0
-1580.0		BASE BARLOW	LIMESTONE	-	2017.0

MAPID: 18500338000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779697 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.450853 DATE COLLECTED:
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2014.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	379.0
-186.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	616.0
-1160.0			LIMESTONE	-	1590.0
-1584.0		BASE BARLOW	LIMESTONE	-	2014.0

MAPID: 18500360000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 993' N line, 1050' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.782185 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.449029 DATE COLLECTED:
SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2015.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
62.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	360.0
-168.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	590.0
-1208.0			LIMESTONE	-	1630.0
-1593.0		BASE BARLOW	LIMESTONE	-	2015.0

MAPID: 18500716000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784422 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.443617 DATE COLLECTED:
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 2308.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
65.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	395.0
-168.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	628.0
-1156.0			LIMESTONE	-	1616.0
-1579.0		BASE BARLOW	LIMESTONE	-	2039.0
-1848.0	RENAULT	BASE RENAULT	LIMESTONE	-	2308.0

MAPID: 18500717000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 1710' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784424 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.44544 DATE COLLECTED:
SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 2256.0 LOG TYPE:
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
62.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	378.0
-166.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	606.0
-1221.0			LIMESTONE	-	1661.0
-1613.0		BASE BARLOW	LIMESTONE	-	2053.0
-1816.0	RENAULT	BASE RENAULT	LIMESTONE	-	2256.0

MAPID: 18500719000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.786924 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.43822 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 2078.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	349.0
-84.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	576.0
-1162.0			LIMESTONE	-	1654.0
-1586.0		BASE BARLOW	LIMESTONE	-	2078.0

MAPID: 18500720000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 990' S line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.786944 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.440043 DATE COLLECTED:
SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 2347.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
92.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	390.0
-116.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	598.0
-1178.0			LIMESTONE	-	1660.0
-1594.0		BASE BARLOW	LIMESTONE	-	2076.0
-1865.0	RENAULT	BASE RENAULT	LIMESTONE	-	2347.0

MAPID: 18500721000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 990' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784608 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.438197 DATE COLLECTED:
SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 2340.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	335.0
-72.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	561.0
-1149.0			LIMESTONE	-	1638.0
-1583.0		BASE BARLOW	LIMESTONE	-	2072.0
-1851.0	RENAULT	BASE RENAULT	LIMESTONE	-	2340.0

MAPID: 18500721000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 990' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784608 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.438197 DATE COLLECTED:
SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 2390.0 LOG TYPE: Electric Log
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-41.0	CARBONDALE	DANVILLE	COAL	-	530.0
-52.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	541.0
-75.0	CARBONDALE	HERRIN	COAL	3.0	564.0
-83.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	50.0	572.0
-143.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	6.0	632.0
-165.0	CARBONDALE	SPRINGFIELD	COAL	2.0	654.0
-261.0	CARBONDALE	HOUCHIN CREEK	COAL	-	750.0

MAPID: 18500722000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 990' N line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.786965 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.441813 DATE COLLECTED: 8 / 16 / 1946
SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 2151.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
334.0	BOND	MT. CARMEL	SANDSTONE	110.0	130.0
155.0	PATOKA	MACOUPIN	LIMESTONE	1.0	309.0
64.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	400.0
-136.0	SHELBURN	DANVILLE	COAL	2.0	600.0
-165.0	CARBONDALE	HERRIN	COAL	2.8	629.0
-231.0	CARBONDALE	BRIAR HILL	COAL	1.0	695.0
-249.0	CARBONDALE	SPRINGFIELD	COAL	5.0	713.0
-356.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	820.0
-466.0	CARBONDALE	COLCHESTER	COAL	-	930.0
-505.0	CARBONDALE	DAVIS	COAL	4.5	969.0
-538.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1002.0

MAPID: 18500722000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 990' N line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.786965 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.441813 DATE COLLECTED:
SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 2071.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
72.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	392.0
-164.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	628.0
-1189.0			LIMESTONE	-	1653.0
-1607.0		BASE BARLOW	LIMESTONE	-	2071.0

MAPID: 18500723000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 990' S line, 330' E line of SW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784361 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.440015 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 2322.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	331.0
-82.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	560.0
-1149.0			LIMESTONE	-	1627.0
-1580.0		BASE BARLOW	LIMESTONE	-	2058.0
-1844.0	RENAULT	BASE RENAULT	LIMESTONE	-	2322.0

MAPID: 18500724000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779501 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.441777 DATE COLLECTED:
SURFACE ELEVATION (FT.): 481.0 LOGGED (FT.): 2048.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	328.0
-76.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	557.0
-1147.0			LIMESTONE	-	1628.0
-1567.0		BASE BARLOW	LIMESTONE	-	2048.0

MAPID: 18500725000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.782074 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.441798 DATE COLLECTED:
SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 2047.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
144.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	330.0
-88.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	562.0
-1146.0			LIMESTONE	-	1620.0
-1573.0		BASE BARLOW	LIMESTONE	-	2047.0

MAPID: 18500726000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.782045 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.439975 DATE COLLECTED:
SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 2064.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
155.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	330.0
-75.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	560.0
-1149.0			LIMESTONE	-	1634.0
-1579.0		BASE BARLOW	LIMESTONE	-	2064.0

MAPID: 18500727000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.782105 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.443602 DATE COLLECTED:
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 2304.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
134.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	326.0
-95.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	555.0
-1154.0			LIMESTONE	-	1614.0
-1573.0		BASE BARLOW	LIMESTONE	-	2033.0
-1844.0	RENAULT	BASE RENAULT	LIMESTONE	-	2304.0

MAPID: 18500728000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.779461 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.439954 DATE COLLECTED:
SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 2043.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	308.0
-69.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	536.0
-1149.0			LIMESTONE	-	1616.0
-1576.0		BASE BARLOW	LIMESTONE	-	2043.0

MAPID: 18500729000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 990' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.781737 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.438168 DATE COLLECTED:
SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 2311.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	294.0
-64.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	520.0
-1152.0			LIMESTONE	-	1608.0
-1578.0		BASE BARLOW	LIMESTONE	-	2034.0
-1855.0	RENAULT	BASE RENAULT	LIMESTONE	-	2311.0

MAPID: 18500730000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.77942 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.438141 DATE COLLECTED:
SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 2289.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
172.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	272.0
-56.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	500.0
-1154.0			LIMESTONE	-	1598.0
-1575.0		BASE BARLOW	LIMESTONE	-	2019.0
-1845.0	RENAULT	BASE RENAULT	LIMESTONE	-	2289.0

MAPID: 18501600000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 7 QUARTERS/FOOTAGES: 990' S line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.78934 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.447294 DATE COLLECTED:
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 2398.0 LOG TYPE:
SOURCE: STOCKER F R WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
58.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	394.0
-173.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	625.0
-1231.0			LIMESTONE	-	1683.0
-1659.0		BASE BARLOW	LIMESTONE	-	2111.0
-1946.0	RENAULT	BASE RENAULT	LIMESTONE	-	2398.0

MAPID: 18501912000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 7 **QUARTERS/FOOTAGES:** 300' S line, 330' W line of SE SW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.791833 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.438188 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1674.0 **LOG TYPE:**
SOURCE: SKILES OIL CORP **WELL TYPE:** Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
98.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	365.0
-129.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	592.0
-1211.0			LIMESTONE	-	1674.0

MAPID: 18504112000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' S line, 100' E line of SW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.788443 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.439145 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 2090.0 **LOG TYPE:**
SOURCE: SKILES OIL CORP **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
82.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	388.0
-144.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	614.0
-1203.0			LIMESTONE	-	1673.0
-1620.0		BASE BARLOW	LIMESTONE	-	2090.0

MAPID: 18526124000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 7 **QUARTERS/FOOTAGES:** 990' S line, 330' W line of NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.796748 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.447342 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 2407.0 **LOG TYPE:**
SOURCE: MASON OIL CO. **WELL TYPE:** Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	387.0
-185.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	625.0
-1280.0			LIMESTONE	-	1720.0
-1680.0		BASE BARLOW	LIMESTONE	-	2120.0
-1967.0	RENAULT	BASE RENAULT	LIMESTONE	-	2407.0

MAPID: 18527437000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 7

QUARTERS/FOOTAGES: SE NW NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.794269

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.449098

DATE COLLECTED: 6 / 28 / 1982

SURFACE ELEVATION (FT.): 395.0

LOGGED (FT.): 145.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 103935

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
395.0			CLAY	15.0	0.0	
380.0	MATTOON		DARK SHALE	12.0	15.0	
368.0	MATTOON	FRIENDSVILLE	COAL	2.0	27.0	DO NOT USE FOR RESOURCE CALCULATIONS
366.0	BOND		GRAY SHALE	6.0	29.0	
360.0	BOND		SANDSTONE	25.0	35.0	
335.0	BOND		LIMESTONE	5.0	60.0	
330.0	BOND		DARK SHALE	5.0	65.0	
325.0	BOND	WITT	COAL	2.0	70.0	DO NOT USE FOR RESOURCE CALCULATIONS
323.0	BOND		LIMESTONE	2.0	72.0	
321.0	BOND		GRAY SHALE	6.0	74.0	
315.0	BOND		LIMESTONE	3.0	80.0	
312.0	BOND		SANDSTONE	19.0	83.0	
293.0	BOND		DARK SHALE	23.0	102.0	
270.0	BOND	FLANNIGAN	COAL	2.0	125.0	DO NOT USE FOR RESOURCE CALCULATIONS
268.0	BOND		LIMESTONE	5.0	127.0	
263.0	BOND	MT. CARMEL	SANDSTONE	4.0	132.0	
259.0	BOND	MT. CARMEL	SANDSTONE	9.0	136.0	

MAPID: 18527641000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 7

QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.789381

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.445463

DATE COLLECTED: 7 / 31 / 1987

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 255.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 134212

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	6.0	0.0	DARK TOP SOIL
454.0			CLAY	2.0	6.0	
452.0	BOND		SANDSTONE	4.0	8.0	
448.0	BOND		SANDSTONE	21.0	12.0	
427.0	BOND		GRAY SHALE	15.0	33.0	
412.0	BOND	WITT	COAL	1.0	48.0	DO NOT USE FOR RESOURCE CALCULATIONS
411.0	BOND		GRAY SHALE	3.0	49.0	
408.0	BOND		LIMESTONE	5.0	52.0	
403.0	BOND		SHALE	43.0	57.0	
360.0	BOND	FLANNIGAN	COAL	2.0	100.0	DO NOT USE FOR RESOURCE CALCULATIONS
358.0	BOND		LIMESTONE	4.0	102.0	
354.0	BOND		SHALE	19.0	106.0	
335.0	BOND	MT. CARMEL	SANDSTONE	63.0	125.0	
272.0	BOND		COAL	1.0	188.0	DO NOT USE FOR RESOURCE CALCULATIONS
271.0	BOND	CARTHAGE	LIMESTONE	4.0	189.0	
267.0	PATOKA		SHALE	27.0	193.0	
240.0	PATOKA		SANDY SHALE	35.0	220.0	

MAPID: 18527748000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 7 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.789381 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.445463 **DATE COLLECTED:** 10 / 5 / 1984
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 240.0 **LOG TYPE:** Drillers Log
SOURCE: GEOLOGICAL AND WATER SURVEY 115169 **WELL TYPE:** Water Well
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	15.0	0.0	
445.0	MATTOON	FRIENDSVILLE	COAL	5.0	15.0	DO NOT USE FOR RESOURCE CALCULATIONS
440.0	BOND		LIMESTONE	2.0	20.0	
438.0	BOND		GRAY SHALE	13.0	22.0	
425.0	BOND		SANDSTONE	41.0	35.0	
384.0	BOND		GRAY SHALE	4.0	76.0	
380.0	BOND	WITT	COAL	2.0	80.0	DO NOT USE FOR RESOURCE CALCULATIONS
378.0	BOND		GRAY SHALE	9.0	82.0	
369.0	BOND		LIMESTONE	2.0	91.0	
367.0	BOND		SANDSTONE	10.0	93.0	
357.0	BOND		LIMESTONE	2.0	103.0	
355.0	BOND		SANDY SHALE	20.0	105.0	
335.0	BOND	FLANNIGAN	COAL	2.0	125.0	DO NOT USE FOR RESOURCE CALCULATIONS
333.0	BOND		LIMESTONE	2.0	127.0	
331.0	BOND		GRAY SHALE	24.0	129.0	
307.0	BOND	MT. CARMEL	SANDSTONE	87.0	153.0	

MAPID: 18500746000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.772485 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.445355 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 2355.0 **LOG TYPE:** Electric Log
SOURCE: CRAFT C R ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-35.0	CARBONDALE	DANVILLE	COAL	-	482.0	
-46.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	493.0	
-75.0	CARBONDALE	HERRIN	COAL	4.0	522.0	
-96.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	32.0	543.0	
-139.0	CARBONDALE	CANTON	SILTSTONE	7.0	586.0	
-159.0	CARBONDALE	SPRINGFIELD	COAL	3.0	606.0	
-173.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	10.0	620.0	
-263.0	CARBONDALE	HOUCHIN CREEK	COAL	-	710.0	

MAPID: 185238A0001F **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 8 **QUARTERS/FOOTAGES:** SE NW SW NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.767095 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.446669 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 17.6 **LOG TYPE:** Measured section
SOURCE: **WELL TYPE:** Outcrop
COMMENT: OUTCROP OF REEL LS/FLANNIGAN COAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0	BOND	REEL	LIMESTONE	2.0	15.0	
423.0	BOND	FLANNIGAN	COAL	0.6	17.0	

MAPID: 18527438000C **VERSION:** 1 **PROJECT:** NCRDS93
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.770059 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.445333 **DATE COLLECTED:** 4 / 13 / 1983
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 360.0 **LOG TYPE:**
SOURCE: DAVID SPETH 106750 **WELL TYPE:** Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	13.0	0.0	
-			COAL	1.0	13.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	1.0	14.0	
-			COAL	4.0	15.0	
-			GRAY SHALE	9.0	19.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SANDSTONE	77.0	28.0	
-			GRAY SHALE	10.0	105.0	
-			SANDSTONE	5.0	115.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	80.0	120.0	
-			COAL	2.0	200.0	
-			GRAY SHALE	46.0	202.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	12.0	248.0	
-			SANDY SHALE	20.0	260.0	
-			COAL	2.0	280.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	10.0	282.0	
-			DARK SHALE	23.0	292.0	
-			GRAY SHALE	40.0	315.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			COAL	5.0	355.0	

MAPID: 18527440000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 8 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.770152 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.450774 **DATE COLLECTED:** 9 / 16 / 1983
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 135.0 **LOG TYPE:** Drillers Log
SOURCE: GEOLOGICAL AND WATER SURVEY 109440 **WELL TYPE:** Water Well
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
410.0			CLAY	16.0	0.0	
394.0	BOND		COAL	2.0	16.0	DO NOT USE FOR RESOURCE CALCULATIONS
392.0	BOND		LIMESTONE	2.0	18.0	
390.0	BOND	WITT	COAL	2.0	20.0	DO NOT USE FOR RESOURCE CALCULATIONS
388.0	BOND		GRAY SHALE	11.0	22.0	
377.0	BOND		SANDSTONE	17.0	33.0	
360.0	BOND		SANDY SHALE	20.0	50.0	
340.0	BOND	REEL	LIMESTONE	3.0	70.0	
337.0	BOND		SANDY SHALE	17.0	73.0	
320.0	BOND	MT. CARMEL	SANDSTONE	45.0	90.0	

MAPID: 18527441000C **VERSION:** 1 **PROJECT:** NCRDS93
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.770059 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.445333 **DATE COLLECTED:** 12 / 23 / 1981
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 135.0 **LOG TYPE:** Drillers Log
SOURCE: GEOLOGICAL AND WATER SURVEY 102454 **WELL TYPE:** Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	14.0	0.0	
-			COAL	2.0	14.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	16.0	
-			COAL	1.0	18.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	10.0	19.0	
-			LIMESTONE	2.0	29.0	
-			GRAY SHALE	2.0	31.0	
-			SANDSTONE	57.0	33.0	
-			SANDSTONE	45.0	90.0	

MAPID: 18527685000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 8 QUARTERS/FOOTAGES: 330' S line, 0' W line of NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.764042 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.441669 DATE COLLECTED: 5 / 6 / 1988

SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 0.0 LOG TYPE: Nuclear Log

SOURCE: TEXACO, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
108.0	PATOKA	MACOUPIN	LIMESTONE	1.0	316.0
54.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	370.0
-31.0	SHELBURN	DANVILLE	COAL	3.7	455.0
-71.0	CARBONDALE	HERRIN	COAL	3.0	495.0
-138.0	CARBONDALE	BRIAR HILL	COAL	1.7	562.0
-162.0	CARBONDALE	SPRINGFIELD	COAL	4.0	586.0
-271.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	695.0
-388.0	CARBONDALE	COLCHESTER	COAL	0.5	812.0
-414.0	CARBONDALE	DEKOVEN	COAL	1.2	838.0
-418.0	CARBONDALE	DAVIS	COAL	4.0	842.0
-448.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	4.5	872.0

MAPID: 18500794000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 9 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.7517 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.445172 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2345.0 LOG TYPE: Electric Log

SOURCE: OLDS OIL & CHEMICAL CORP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	CARBONDALE	DANVILLE	COAL	-	460.0
-43.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	472.0
-69.0	CARBONDALE	HERRIN	COAL	3.0	498.0
-84.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	39.0	513.0
-141.0	CARBONDALE	CANTON	SILTSTONE	10.0	570.0
-169.0	CARBONDALE	SPRINGFIELD	COAL	3.0	598.0
-187.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	14.0	616.0
-273.0	CARBONDALE	HOUCHIN CREEK	COAL	-	702.0

MAPID: 18501916000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.743091 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.441458 DATE COLLECTED: 1 / 22 / 1952

SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 1998.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
282.0	PATOKA	MACOUPIN	LIMESTONE	2.5	115.0	
187.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	210.0	
-3.0	SHELBURN	DANVILLE	COAL	2.0	400.0	
-48.0	CARBONDALE	HERRIN	COAL	3.0	445.0	
-112.0	CARBONDALE	BRIAR HILL	COAL	1.3	509.0	
-148.0	CARBONDALE	SPRINGFIELD	COAL	4.0	545.0	
-251.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	648.0	
-283.0	CARBONDALE	SURVANT	COAL	3.0	680.0	COAL SPLIT BY 7 FT PARTING
-338.0	CARBONDALE	COLCHESTER	COAL	-	735.0	
-391.0	CARBONDALE	DEKOVEN	COAL	2.0	788.0	
-396.0	CARBONDALE	DAVIS	COAL	3.0	793.0	
-425.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	822.0	

MAPID: 18502312000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 9 QUARTERS/FOOTAGES: 625' S line, 300' E line of NW NE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.747309 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.449574 DATE COLLECTED: 11 / 15 / 1955

SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 2050.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
259.0	PATOKA	MACOUPIN	LIMESTONE	1.0	140.0	
167.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	232.0	
-31.0	SHELBURN	DANVILLE	COAL	3.0	430.0	
-73.0	CARBONDALE	HERRIN	COAL	3.3	472.0	
-133.0	CARBONDALE	BRIAR HILL	COAL	0.8	532.0	
-169.0	CARBONDALE	SPRINGFIELD	COAL	3.5	568.0	
-271.0	CARBONDALE	HOUCHIN CREEK	COAL	1.7	670.0	
-304.0	CARBONDALE	SURVANT	COAL	4.0	703.0	
-361.0	CARBONDALE	COLCHESTER	COAL	-	760.0	
-411.0	CARBONDALE	DAVIS	COAL	6.1	810.0	COAL SPLIT BY 2 FT SHALE SPLIT
-449.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	848.0	

MAPID: 18501919000C

VERSION: 1

COUNTY: WABASH

QUADRANGLE: EAST MOUNT CARMEL

CONFIDENTIAL: N

SURFACE ELEVATION (FT.): 388.0

SOURCE: IN FARM BUR. COOP. ASSOC

COMMENT:

TWP/RNG: 1S 12W

LONGITUDE: -87.736161

LATITUDE: 38.444442

LOGGED (FT.): 4237.0

SECTION: 10

QUARTERS/FOOTAGES: 132' S line, 330' W line of SE NW

GEOLOGIST: HOPKINS

DATE COLLECTED:

LOG TYPE: Electric Log

WELL TYPE: Producer-Oil

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-2.0	CARBONDALE	DANVILLE	COAL	-	390.0
-14.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	402.0
-23.0	CARBONDALE	ANVIL ROCK	SILTSTONE	9.0	411.0
-44.0	CARBONDALE	HERRIN	COAL	3.0	432.0
-58.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	39.0	446.0
-115.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	15.0	503.0
-142.0	CARBONDALE	SPRINGFIELD	COAL	2.0	530.0
-236.0	CARBONDALE	HOUCHIN CREEK	COAL	-	624.0

MAPID: 18500119000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 16 QUARTERS/FOOTAGES: 330' S line, 764' W line of SE

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.746869 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.423575 DATE COLLECTED: 7 / 0 / 1942

SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 810.0 LOG TYPE: Drillers Log

SOURCE: H.M. HORTON & P.N. WIGGINS 2 WELL TYPE: Producer-Oil

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
397.0			UNCLASSIFIED	130.0	0.0	NO RECORD FOR INTERVAL
267.0	PATOKA		GRAY SHALE	50.0	130.0	
217.0	PATOKA		BLACK SHALE	1.0	180.0	
216.0	PATOKA		COAL	1.0	181.0	DO NOT USE FOR RESOURCE CALCULATIONS
215.0	PATOKA		GRAY SILTSTONE	8.0	182.0	
207.0	SHELBURN	WEST FRANKLIN	LIMESTONE	12.0	190.0	
195.0	SHELBURN		GRAY SILTSTONE	28.0	202.0	
167.0	SHELBURN		GRAY SHALE	18.0	230.0	
149.0	SHELBURN		BLACK SHALE	1.0	248.0	
148.0	SHELBURN		COAL	1.0	249.0	DO NOT USE FOR RESOURCE CALCULATIONS
147.0	SHELBURN		SANDSTONE	16.0	250.0	
131.0	SHELBURN		GRAY SHALE	90.0	266.0	
41.0	SHELBURN		GRAY SHALE	16.0	356.0	
25.0	SHELBURN		BLACK SHALE	2.0	372.0	
23.0	SHELBURN	DANVILLE	COAL	4.0	374.0	DO NOT USE FOR RESOURCE CALCULATIONS
19.0	SHELBURN		UNDERCLAY	2.0	378.0	
17.0	SHELBURN		GRAY SHALE	14.0	380.0	
3.0	SHELBURN		LIMESTONE	4.0	394.0	
-1.0	SHELBURN		GRAY SHALE	12.0	398.0	
-13.0	CARBONDALE		BLACK SHALE	4.0	410.0	
-17.0	CARBONDALE	HERRIN	COAL	2.0	414.0	DO NOT USE FOR RESOURCE CALCULATIONS
-19.0	CARBONDALE		GRAY SILTSTONE	6.0	416.0	
-25.0	CARBONDALE		LIMESTONE	4.0	422.0	
-29.0	CARBONDALE		BLACK SHALE	2.0	426.0	
-31.0	CARBONDALE		GRAY SHALE	4.0	428.0	
-35.0	CARBONDALE		SANDSTONE	49.0	432.0	
-84.0	CARBONDALE		GRAY SHALE	2.0	481.0	
-86.0	CARBONDALE	BRIAR HILL	COAL	3.0	483.0	DO NOT USE FOR RESOURCE CALCULATIONS
-89.0	CARBONDALE		SANDSTONE	22.0	486.0	
-111.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	508.0	
-112.0	CARBONDALE	DYKERSBURG	GRAY SHALE	28.0	509.0	
-140.0	CARBONDALE	SPRINGFIELD	COAL	4.0	537.0	DO NOT USE FOR RESOURCE CALCULATIONS
-144.0	CARBONDALE		UNDERCLAY	1.0	541.0	
-145.0	CARBONDALE		GRAY SHALE	14.0	542.0	
-159.0	CARBONDALE		GRAY SHALE	44.0	556.0	
-203.0	CARBONDALE		GRAY SHALE	34.0	600.0	
-237.0	CARBONDALE		LIMESTONE	3.0	634.0	
-240.0	CARBONDALE		BLACK SHALE	1.0	637.0	

-241.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	638.0	DO NOT USE FOR RESOURCE CALCULATIONS
-245.0	CARBONDALE		UNDERCLAY	1.0	642.0	
-246.0	CARBONDALE		GRAY SHALE	6.0	643.0	
-252.0	CARBONDALE		GRAY SHALE	4.0	649.0	
-256.0	CARBONDALE		SANDSTONE	41.0	653.0	
-297.0	CARBONDALE		GRAY SHALE	36.0	694.0	
-333.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	730.0	
-336.0	CARBONDALE	COLCHESTER	COAL	3.0	733.0	DO NOT USE FOR RESOURCE CALCULATIONS
-339.0	CARBONDALE		SHALE	2.0	736.0	
-341.0	CARBONDALE		SANDSTONE	34.0	738.0	
-375.0	CARBONDALE	DEKOVEN	COAL	1.0	772.0	DO NOT USE FOR RESOURCE CALCULATIONS
-376.0	CARBONDALE		SANDSTONE	11.0	773.0	
-387.0	CARBONDALE	DAVIS	COAL	5.0	784.0	DO NOT USE FOR RESOURCE CALCULATIONS
-392.0	TRADEWATER		GRAY SHALE	7.0	789.0	
-399.0	TRADEWATER		LIMESTONE	2.0	796.0	
-401.0	TRADEWATER		GRAY SHALE	12.0	798.0	

MAPID: 18500119000C **VERSION:** 2 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 764' W line of SE
QUADRANGLE: EAST MOUNT CARMEL **LONGITUDE:** -87.746869 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.423575 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 2325.0 **LOG TYPE:** Electric Log
SOURCE: HORTON WIGGINS ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
-27.0	CARBONDALE	HERRIN	COAL	3.0	424.0	
-83.0	CARBONDALE	BRIAR HILL	COAL	-	480.0	
-141.0	CARBONDALE	SPRINGFIELD	COAL	4.0	538.0	
-241.0	CARBONDALE	HOUCHIN CREEK	COAL	-	638.0	

MAPID: 18500119000C **VERSION:** 4 **PROJECT:** CONTROL
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 764' W line of SE
QUADRANGLE: EAST MOUNT CARMEL **LONGITUDE:** -87.746869 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.423575 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2325.0 **LOG TYPE:** Survey Sample Study
SOURCE: HORTON WIGGINS ETAL **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: 18501623000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 16 QUARTERS/FOOTAGES: 1680' S line, 1424' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.744671 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.427305 DATE COLLECTED: 5 / 5 / 1949

SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 1986.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
196.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	201.0
8.0	SHELBURN	DANVILLE	COAL	2.0	389.0
-38.0	CARBONDALE	HERRIN	COAL	3.8	435.0
-157.0	CARBONDALE	SPRINGFIELD	COAL	5.0	554.0
-250.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	647.0
-277.0	CARBONDALE	SURVANT	COAL	2.6	674.0
-339.0	CARBONDALE	COLCHESTER	COAL	-	736.0
-357.0	CARBONDALE	DEKOVEN	COAL	1.6	754.0
-395.0	CARBONDALE	DAVIS	COAL	5.0	792.0
-428.0	TRADEWATER	CARRIER MILLS	SHALE	-	825.0

MAPID: 18501623000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 16 QUARTERS/FOOTAGES: 1680' S line, 1424' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.744671 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.427305 DATE COLLECTED:

SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 1986.0 LOG TYPE: Electric Log

SOURCE: ROTSTEIN DAVID ETAL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
8.0	CARBONDALE	DANVILLE	COAL	-	389.0
-6.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	403.0
-39.0	CARBONDALE	HERRIN	COAL	3.0	436.0
-51.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	38.0	448.0
-105.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	8.0	502.0
-157.0	CARBONDALE	SPRINGFIELD	COAL	5.0	554.0
-155.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	6.0	552.0
-245.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0

MAPID: 18505521000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 16 QUARTERS/FOOTAGES: 870' S line, 880' E line of NW

QUADRANGLE: EAST MOUNT CARMEL LONGITUDE: -87.752904 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.432243 DATE COLLECTED: 5 / 23 / 1966

SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 2025.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
197.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	205.0	
7.0	SHELBURN	DANVILLE	COAL	1.3	395.0	
-41.0	CARBONDALE	HERRIN	COAL	2.8	443.0	
-110.0	CARBONDALE	BRIAR HILL	COAL	0.8	512.0	
-139.0	CARBONDALE	SPRINGFIELD	COAL	3.5	541.0	
-245.0	CARBONDALE	HOUCHIN CREEK	COAL	1.6	647.0	
-335.0	CARBONDALE	COLCHESTER	COAL	-	737.0	
-355.0	CARBONDALE	DEKOVEN	COAL	1.3	757.0	
-385.0	CARBONDALE	DAVIS	COAL	5.0	787.0	COAL IS SPLIT

MAPID: 18500120000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.777081 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.423759 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2039.0 LOG TYPE: Electric Log

SOURCE: SHELL OIL COMPANY WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-15.0	CARBONDALE	DANVILLE	COAL	-	452.0	
-27.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	464.0	
-63.0	CARBONDALE	HERRIN	COAL	4.0	500.0	
-85.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	18.0	522.0	
-106.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	9.0	543.0	
-132.0	CARBONDALE	SPRINGFIELD	COAL	3.0	569.0	
-228.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0	

MAPID: 18500120000C VERSION: 3

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.777081 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.423759 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2037.0 LOG TYPE: Survey Sample Study

SOURCE: SHELL 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: 18501488000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 17 QUARTERS/FOOTAGES: 1040' S line, 990' E line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.76257 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.432772 DATE COLLECTED:

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 2379.0 LOG TYPE: Electric Log

SOURCE: SCHOONMAKER, GEORGE C. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-8.0	CARBONDALE	DANVILLE	COAL	-	454.0
-24.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	470.0
-48.0	CARBONDALE	HERRIN	COAL	4.0	494.0
-60.0	CARBONDALE	VERMILIONVILLE		44.0	506.0
-118.0	CARBONDALE	BRIAR HILL	COAL	-	564.0
-122.0	CARBONDALE	CANTON	SILTSTONE & SHALE	22.0	568.0
-146.0	CARBONDALE	SPRINGFIELD	COAL	3.0	592.0
-152.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	12.0	598.0
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0

MAPID: 18504146000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 17 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.762721 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.432603 DATE COLLECTED: 10 / 0 / 1946

SURFACE ELEVATION (FT.): LOGGED (FT.): 1572.0 LOG TYPE: Drillers Log

SOURCE: ELLIS FISH 3 WELL TYPE: Dry Hole

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCLASSIFIED	87.0	0.0	NO RECORD IN LOG
-	BOND		SANDY SHALE	13.0	87.0	
-	BOND	MT. CARMEL	SANDSTONE	47.0	100.0	
-	PATOKA		SHALE	17.0	147.0	
-	PATOKA		GRAY SHALE	21.0	164.0	
-	PATOKA		SANDSTONE	13.0	185.0	
-	PATOKA		SHALE	22.0	198.0	
-	PATOKA		GRAY SHALE	33.0	220.0	
-	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	253.0	
-	SHELBURN		BROWN SHALE	10.0	260.0	
-	SHELBURN		CALCAREOUS SHALE	15.0	270.0	
-	SHELBURN		LIGHT SHALE	30.0	285.0	
-	SHELBURN		DARK SHALE	6.0	315.0	
-	SHELBURN		GRAY SHALE	13.0	321.0	
-	SHELBURN		SANDY SHALE	21.0	334.0	
-	SHELBURN		GRAY SHALE	15.0	355.0	
-	SHELBURN		SANDY SHALE	20.0	370.0	
-	SHELBURN		SANDSTONE	16.0	390.0	
-	SHELBURN		SANDY SHALE	28.0	406.0	
-	SHELBURN		GRAY SHALE	11.0	434.0	
-	SHELBURN	DANVILLE	COAL	3.0	445.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	SHELBURN		SHALE	11.0	448.0	
-	SHELBURN		LIMESTONE	6.0	459.0	
-	SHELBURN		LIGHT SHALE	5.0	465.0	
-	SHELBURN		DARK SHALE	5.0	470.0	
-	SHELBURN		LIMESTONE	5.0	475.0	
-	CARBONDALE	HERRIN	COAL	5.0	480.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	CARBONDALE		SHALE	5.0	485.0	
-	CARBONDALE		SANDSTONE	54.0	490.0	
-	CARBONDALE		DARK SHALE	12.0	544.0	
-	CARBONDALE		SANDY SHALE	7.0	556.0	
-	CARBONDALE	BRIAR HILL	COAL	2.0	563.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	CARBONDALE		SANDSTONE	6.0	565.0	
-	CARBONDALE		LIMESTONE	3.0	571.0	
-	CARBONDALE		SANDSTONE	14.0	574.0	SS AND SH
-	CARBONDALE	SPRINGFIELD	COAL	3.0	588.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	CARBONDALE		SANDSTONE	19.0	591.0	
-	CARBONDALE		GRAY SHALE	16.0	610.0	
-	CARBONDALE		LIGHT SHALE	11.0	626.0	

-	CARBONDALE	DARK SHALE	5.0	637.0	
-	CARBONDALE	LIGHT SHALE	23.0	642.0	
-	CARBONDALE	DARK SHALE	30.0	665.0	
-	CARBONDALE	SANDY SHALE	7.0	695.0	
-	TRADEWATER	SANDSTONE	28.0	702.0	"BROKEN" SS
-	TRADEWATER	SANDSTONE	18.0	730.0	"SHALEY" SS
-	TRADEWATER	SANDSTONE	59.0	748.0	
-	TRADEWATER	SANDSTONE	60.0	807.0	
-	TRADEWATER	LIMESTONE	14.0	867.0	
-	TRADEWATER	CALCAREOUS SHALE	24.0	881.0	
-	TRADEWATER	LIMESTONE	5.0	905.0	
-	TRADEWATER	SHALE	5.0	910.0	
-	TRADEWATER	LIMESTONE	9.0	915.0	
-	TRADEWATER	SHALE	2.0	924.0	
-	TRADEWATER	LIMESTONE	14.0	926.0	
-	TRADEWATER	COAL	1.0	940.0	DO NOT USE FOR RESOURCE CALCULATIONS

MAPID: 18504147000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.764993 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.430835 DATE COLLECTED: 8 / 4 / 1953

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 2050.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
185.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	260.0
-3.0	SHELBURN	DANVILLE	COAL	1.8	448.0
-29.0	CARBONDALE	HERRIN	COAL	2.8	474.0
-107.0	CARBONDALE	BRIAR HILL	COAL	1.0	552.0
-133.0	CARBONDALE	SPRINGFIELD	COAL	3.0	578.0
-237.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	682.0
-357.0	CARBONDALE	COLCHESTER	COAL	-	802.0
-408.0	CARBONDALE	DAVIS	COAL	3.5	853.0
-440.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	885.0

MAPID: 18500868000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 721' S line, 630' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.790192 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.432089 DATE COLLECTED:

SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 2046.0 LOG TYPE:

SOURCE: SHELL OIL COMPANY WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
150.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	302.0
-82.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	534.0
-1159.0			LIMESTONE	-	1611.0
-1594.0		BASE BARLOW	LIMESTONE	-	2046.0

MAPID: 18500870000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 500' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789719 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.431007 DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 2051.0 LOG TYPE:

SOURCE: SHELL OIL COMPANY WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	310.0
-78.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	540.0
-1150.0			LIMESTONE	-	1612.0
-1589.0		BASE BARLOW	LIMESTONE	-	2051.0

MAPID: 18500870000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 500' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789719 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.431007 DATE COLLECTED:
SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 2090.0 LOG TYPE: Electric Log
SOURCE: SHELL OIL COMPANY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-48.0	CARBONDALE	DANVILLE	COAL	-	510.0
-61.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	523.0
-78.0	CARBONDALE	HERRIN	COAL	3.0	540.0
-103.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	29.0	565.0
-141.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	7.0	603.0
-164.0	CARBONDALE	SPRINGFIELD	COAL	3.0	626.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	722.0

MAPID: 18500871000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 770' N line, 898' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.791063 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.427976 DATE COLLECTED:
SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 2359.0 LOG TYPE:
SOURCE: BAUER, JOSEPH E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	320.0
-78.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	550.0
-1151.0			LIMESTONE	-	1623.0
-1600.0		BASE BARLOW	LIMESTONE	-	2072.0
-1887.0	RENAULT	BASE RENAULT	LIMESTONE	-	2359.0

MAPID: 18500883000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.793924 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.428847 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2308.0 LOG TYPE:
SOURCE: HAYS R S ETAL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	302.0
-111.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	542.0
-1169.0			LIMESTONE	-	1600.0
-1619.0		BASE BARLOW	LIMESTONE	-	2050.0
-1877.0	RENAULT	BASE RENAULT	LIMESTONE	-	2308.0

MAPID: 18501928000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789254 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.423766 DATE COLLECTED:
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 2049.0 LOG TYPE:
SOURCE: LOVELAGE, HOYT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
178.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	282.0
-45.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	505.0
-1138.0			LIMESTONE	-	1598.0
-1589.0		BASE BARLOW	LIMESTONE	-	2049.0

MAPID: 18502242000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 1650' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.784135 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.423665 DATE COLLECTED:
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2033.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
134.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	286.0
-118.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	538.0
-1178.0			LIMESTONE	-	1598.0
-1613.0		BASE BARLOW	LIMESTONE	-	2033.0

MAPID: 18504166000C VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 250' N line, 5' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787919 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.429398 DATE COLLECTED: 5 / 3 / 1954
SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 2116.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
242.0	PATOKA	MACOUPIN	LIMESTONE	1.0	255.0
162.0	SHELBURN	WEST FRANKLIN	LIMESTONE	12.0	335.0
-41.0	SHELBURN	DANVILLE	COAL	3.0	538.0
-70.0	CARBONDALE	HERRIN	COAL	3.0	567.0
-133.0	CARBONDALE	BRIAR HILL	COAL	0.8	630.0
-150.0	CARBONDALE	SPRINGFIELD	COAL	3.0	647.0
-251.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	748.0
-363.0	CARBONDALE	COLCHESTER	COAL	-	860.0
-383.0	CARBONDALE	DEKOVEN	COAL	2.5	880.0
-405.0	CARBONDALE	DAVIS	COAL	4.0	902.0
-435.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	932.0

MAPID: 18504169000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 1920' S line, 1540' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.793444 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.435414 DATE COLLECTED:
SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 2048.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
108.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	336.0
-123.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	567.0
-1181.0			LIMESTONE	-	1625.0
-1604.0		BASE BARLOW	LIMESTONE	-	2048.0

MAPID: 18504171000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 2310' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.796204 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.423902 DATE COLLECTED:
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 1602.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
120.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	295.0
-120.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	535.0
-1187.0			LIMESTONE	-	1602.0

MAPID: 18501930000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 630' E line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.780635 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.414525 DATE COLLECTED:
SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 2090.0 LOG TYPE: Electric Log
SOURCE: COLUMBUS EXPLORATION WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-21.0	CARBONDALE	DANVILLE	COAL	-	432.0
-36.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	447.0
-59.0	CARBONDALE	HERRIN	COAL	4.0	470.0
-67.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	32.0	478.0
-139.0	CARBONDALE	SPRINGFIELD	COAL	3.0	550.0
-245.0	CARBONDALE	HOUCHIN CREEK	COAL	-	656.0

MAPID: 18502414000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 19 QUARTERS/FOOTAGES: 330' S line, 990' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.791615 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.416481 DATE COLLECTED: 6 / 8 / 1956

SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2064.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
245.0	PATOKA	MACOUPIN	LIMESTONE	1.0	178.0	
157.0	SHELBURN	WEST FRANKLIN	LIMESTONE	14.0	266.0	MULTI-BENCHED WITH LOWER 5 FOOT PARTING
-54.0	SHELBURN	DANVILLE	COAL	2.7	477.0	
-86.0	CARBONDALE	HERRIN	COAL	3.5	509.0	
-140.0	CARBONDALE	BRIAR HILL	COAL	0.8	563.0	
-167.0	CARBONDALE	SPRINGFIELD	COAL	3.7	590.0	
-277.0	CARBONDALE	HOUCHIN CREEK	COAL	2.3	700.0	
-312.0	CARBONDALE	SURVANT	COAL	0.8	735.0	
-374.0	CARBONDALE	COLCHESTER	COAL	-	797.0	
-407.0	CARBONDALE	DAVIS	COAL	4.6	830.0	
-439.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	862.0	

MAPID: 18527445000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 19 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789238 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.42194 DATE COLLECTED: 4 / 10 / 1981

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 240.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 99188 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			CLAY	16.0	0.0	
424.0	BOND		SANDY CLAY	9.0	16.0	
415.0	BOND		DARK SHALE	12.0	25.0	
403.0	BOND	MT. CARMEL	SANDSTONE	73.0	37.0	
330.0	BOND	CARTHAGE	LIMESTONE	3.0	110.0	
327.0	PATOKA		COAL	1.0	113.0	DO NOT USE FOR RESOURCE CALCULATIONS
326.0	PATOKA		GRAY SHALE	2.0	114.0	
324.0	PATOKA		DARK SHALE	92.0	116.0	
232.0	PATOKA		COAL	2.0	208.0	DO NOT USE FOR RESOURCE CALCULATIONS
230.0	PATOKA		SANDY SHALE	15.0	210.0	
215.0	PATOKA		GRAY SHALE	15.0	225.0	

MAPID: 18500899000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 20

QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.769877

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.416303

DATE COLLECTED: 3 / 3 / 1941

SURFACE ELEVATION (FT.): 467.0

LOGGED (FT.): 2420.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
293.0	PATOKA	MACOUPIN	LIMESTONE	1.0	174.0
207.0	SHELBURN	WEST FRANKLIN	LIMESTONE	14.0	260.0
17.0	SHELBURN	DANVILLE	COAL	3.5	450.0
-21.0	CARBONDALE	HERRIN	COAL	3.5	488.0
-111.0	CARBONDALE	SPRINGFIELD	COAL	4.0	578.0
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	1.7	680.0
-343.0	CARBONDALE	COLCHESTER	COAL	-	810.0
-390.0	CARBONDALE	DAVIS	COAL	4.0	857.0
-418.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	885.0

MAPID: 18501931000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 20

QUARTERS/FOOTAGES: 25' S line, 330' W line of NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.777238

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.415497

DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0

LOGGED (FT.): 2435.0

LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-10.0	CARBONDALE	DANVILLE	COAL	-	438.0
-20.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	448.0
-46.0	CARBONDALE	HERRIN	COAL	2.0	474.0
-56.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	46.0	484.0
-107.0	CARBONDALE	CANTON	SILTSTONE	7.0	535.0
-130.0	CARBONDALE	SPRINGFIELD	COAL	4.0	558.0
-236.0	CARBONDALE	HOUCHIN CREEK	COAL	-	664.0

MAPID: 18500914000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 21 QUARTERS/FOOTAGES: 42' N line, 107' W line of NE SE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.751777 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.411466 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 1991.0 LOG TYPE: Electric Log

SOURCE: OLDS, KEY & MCNEILL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
59.0	CARBONDALE	DANVILLE	COAL	-	335.0
24.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	370.0
-6.0	CARBONDALE	HERRIN	COAL	3.0	400.0
-14.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	26.0	408.0
-50.0	CARBONDALE	BRIAR HILL	COAL	-	444.0
-52.0	CARBONDALE	CANTON	SILTSTONE	8.0	446.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	3.0	488.0
-196.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0

MAPID: 18500920000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 21 QUARTERS/FOOTAGES: 260' S line, 960' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.753064 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.415937 DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 1487.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
58.0	CARBONDALE	DANVILLE	COAL	-	338.0
0.0	CARBONDALE	HERRIN	COAL	3.0	396.0
-24.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	-	420.0
-40.0	CARBONDALE	BRIAR HILL	COAL	-	436.0
-47.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	-	443.0
-84.0	CARBONDALE	SPRINGFIELD	COAL	4.0	480.0
-188.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0

MAPID: 18500936000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 21

QUARTERS/FOOTAGES: 800' N line, 1240' E line of SW

QUADRANGLE: EAST MOUNT CARMEL

LONGITUDE: -87.754139

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.413037

DATE COLLECTED: 6 / 25 / 1941

SURFACE ELEVATION (FT.): 410.0

LOGGED (FT.): 2339.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
230.0	SHELBURN	WEST FRANKLIN	LIMESTONE	11.0	180.0	
56.0	SHELBURN	DANVILLE	COAL	1.0	354.0	
0.0	CARBONDALE	HERRIN	COAL	3.3	410.0	
-82.0	CARBONDALE	SPRINGFIELD	COAL	4.0	492.0	
-185.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	595.0	
-313.0	CARBONDALE	COLCHESTER	COAL	-	723.0	
-365.0	CARBONDALE	DAVIS	COAL	5.0	775.0	
-395.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	805.0	

MAPID: 18505552000C VERSION: 1

PROJECT: NCRDS87

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 21 QUARTERS/FOOTAGES:

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.752031

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 38.411829

DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 180.7

LOG TYPE: Drillers Log

SOURCE: ZIMMERMAN

WELL TYPE: Coal Test

COMMENT: LOC. WITHIN SEC. UNKNOWN, ELE. IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	180.7	0.0	
-	MATTOON		SHALE	2.0		
-	MATTOON		SANDSTONE	2.0		
-	MATTOON		SHALE	4.0		
-	MATTOON		SANDSTONE	39.8		
-	MATTOON		UNDERCLAY	1.0		
-	MATTOON	FRIENDSVILLE	COAL	0.3		UNCERTAIN CORRELATION
-	MATTOON		UNDERCLAY	9.0		
-	MATTOON		SANDSTONE	2.0		
-	MATTOON		SHALE	1.3		
-	MATTOON		UNDERCLAY	3.8		
-	MATTOON		SHALE	88.0		
-	MATTOON		UNDERCLAY	0.6		
-	MATTOON		COAL	0.6		
-	MATTOON		UNDERCLAY	3.0		
-	BOND	MILLERSVILLE	LIMESTONE	5.0		UNCERTAIN CORRELATION
-	BOND		SANDSTONE	0.1		
-	BOND	MILLERSVILLE	LIMESTONE	3.8		UNCERTAIN CORRELATION
-	BOND		SHALE	1.8		
-	BOND		UNCLASSIFIED	0.3		
-	BOND		SHALE	2.0		
-	BOND		LIMESTONE	1.3		
-	BOND		SHALE	0.3		
-	BOND		LIMESTONE	2.3		
-	BOND		SHALE	0.3		
-	BOND		LIMESTONE	8.7		

MAPID: 18527446000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 28

QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.753589

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.403364

DATE COLLECTED: 8 / 14 / 1981

SURFACE ELEVATION (FT.): 395.0

LOGGED (FT.): 360.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 100925

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
395.0			CLAY	15.0	0.0	
380.0			SANDSTONE	10.0	15.0	
370.0			GRAY SHALE	17.0	25.0	
353.0			SANDY SHALE	8.0	42.0	
345.0			GRAY SHALE	80.0	50.0	
265.0			LIMESTONE	10.0	130.0	
255.0			DARK SHALE	28.0	140.0	
227.0			COAL	2.0	168.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
225.0			LIMESTONE	2.0	170.0	
223.0			GRAY SHALE	6.0	172.0	
217.0			COAL	2.0	178.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
215.0			LIMESTONE	2.0	180.0	
213.0			GRAY SHALE	4.0	182.0	
209.0			LIMESTONE	2.0	186.0	
207.0			GRAY SHALE	8.0	188.0	
199.0			LIMESTONE	4.0	196.0	
195.0			GRAY SHALE	35.0	200.0	
160.0			DARK SHALE	70.0	235.0	
90.0			GRAY SHALE	55.0	305.0	

MAPID: 18500279000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 29 QUARTERS/FOOTAGES: 0' N line, 1269' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.769357 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.404449 DATE COLLECTED: 2 / 25 / 1941

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 2418.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
188.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	239.0
-2.0	SHELBURN	DANVILLE	COAL	3.0	429.0
-38.0	CARBONDALE	HERRIN	COAL	3.5	465.0
-132.0	CARBONDALE	SPRINGFIELD	COAL	4.0	559.0
-247.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	674.0
-343.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-396.0	CARBONDALE	DAVIS	COAL	4.5	823.0
-429.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	856.0

MAPID: 18502783000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.760867 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.394127 DATE COLLECTED: 8 / 2 / 1954

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2450.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
198.0	SHELBURN	WEST FRANKLIN	LIMESTONE	16.0	202.0
3.0	SHELBURN	DANVILLE	COAL	2.8	397.0
-52.0	CARBONDALE	HERRIN	COAL	2.5	452.0
-136.0	CARBONDALE	SPRINGFIELD	COAL	2.8	536.0
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	644.0
-352.0	CARBONDALE	COLCHESTER	COAL	-	752.0
-373.0	CARBONDALE	DEKOVEN	COAL	1.0	773.0
-393.0	CARBONDALE	DAVIS	COAL	4.0	793.0
-423.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	823.0

MAPID: 18502783000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.760867 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.394127 DATE COLLECTED:

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2450.0 LOG TYPE: Electric Log

SOURCE: JUAN PETROLEUM CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-52.0	CARBONDALE	HERRIN	COAL	3.0	452.0
-113.0	CARBONDALE	BRIAR HILL	COAL	-	513.0
-136.0	CARBONDALE	SPRINGFIELD	COAL	3.0	536.0
-242.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0

MAPID: 18501935000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.792123 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.403712 DATE COLLECTED:

SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 1781.0 LOG TYPE: Electric Log

SOURCE: PACO PETROLEUM CORP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-129.0	CARBONDALE	HERRIN	COAL	3.0	550.0
-173.0	CARBONDALE	BRIAR HILL	COAL	-	594.0
-195.0	CARBONDALE	SPRINGFIELD	COAL	3.0	616.0
-311.0	CARBONDALE	HOUCHIN CREEK	COAL	-	732.0

MAPID: 18504245000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 12W

SECTION: 30

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

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.787299

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.400042

DATE COLLECTED: 5 / 7 / 1954

SURFACE ELEVATION (FT.): 435.0

LOGGED (FT.): 2476.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
145.0	SHELBURN	WEST FRANKLIN	LIMESTONE	17.0	290.0	TWO BENCHES WITH LRG SH PARTING
-59.0	SHELBURN	DANVILLE	COAL	3.0	494.0	
-100.0	CARBONDALE	HERRIN	COAL	3.7	535.0	
-169.0	CARBONDALE	BRIAR HILL	COAL	1.8	604.0	
-187.0	CARBONDALE	SPRINGFIELD	COAL	4.0	622.0	
-304.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	739.0	
-387.0	CARBONDALE	COLCHESTER	COAL	-	822.0	
-414.0	CARBONDALE	DEKOVEN	COAL	2.5	849.0	
-432.0	CARBONDALE	DAVIS	COAL	4.0	867.0	
-463.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	898.0	

MAPID: 18527660000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 30 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.787235 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.400044 DATE COLLECTED: 10 / 22 / 1987

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 195.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 136582 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0			CLAY	17.0	0.0	
418.0	BOND	MT. CARMEL	SANDSTONE	4.0	17.0	
414.0	BOND	MT. CARMEL	GRAY SHALE	1.0	21.0	
413.0	BOND	MT. CARMEL	SANDSTONE	1.0	22.0	
412.0	BOND	MT. CARMEL	GRAY SHALE	1.0	23.0	
411.0	BOND	MT. CARMEL	SANDSTONE	1.0	24.0	
410.0	BOND	MT. CARMEL	GRAY SHALE	1.0	25.0	
409.0	BOND	MT. CARMEL	SANDSTONE	1.0	26.0	
408.0	BOND	MT. CARMEL	SANDSTONE	1.0	27.0	
407.0	BOND	MT. CARMEL	SANDSTONE	2.0	28.0	
405.0	BOND	MT. CARMEL	GRAY SHALE	1.0	30.0	
404.0	BOND	MT. CARMEL	SANDSTONE	3.0	31.0	
401.0	BOND	MT. CARMEL	GRAY SHALE	2.0	34.0	
399.0	BOND	MT. CARMEL	SANDSTONE	21.0	36.0	
378.0	BOND	MT. CARMEL	SANDSTONE	12.0	57.0	
366.0	BOND	MT. CARMEL	GRAY SHALE	2.0	69.0	
364.0	BOND	MT. CARMEL	SANDSTONE	5.0	71.0	
359.0	BOND	MT. CARMEL	SHALE	8.0	76.0	
351.0	BOND	MT. CARMEL	SANDSTONE	20.0	84.0	
331.0	BOND	MT. CARMEL	COAL	1.0	104.0	DO NOT USE FOR RESOURCE CALCULATIONS
330.0	BOND	MT. CARMEL	SANDSTONE	1.0	105.0	
329.0	BOND	MT. CARMEL	COAL	3.0	106.0	DO NOT USE FOR RESOURCE CALCULATIONS
326.0	BOND	MT. CARMEL	SANDSTONE	8.0	109.0	
318.0			UNCLASSIFIED	78.0	117.0	NO RECORD IN LOG

MAPID: 18501536000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 990' E line of NW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.792042 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.392853 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 430.0 **LOGGED (FT.):** 2444.0 **LOG TYPE:**
SOURCE: KINSELL, W. H. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
114.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	316.0
-136.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	566.0
-1267.0			LIMESTONE	-	1697.0
-1733.0		BASE BARLOW	LIMESTONE	-	2163.0
-2014.0	RENAULT	BASE RENAULT	LIMESTONE	-	2444.0

MAPID: 18501937000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.78512 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.37912 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 2439.0 **LOG TYPE:**
SOURCE: RYAN & SHARP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	266.0
-125.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	510.0
-1273.0			LIMESTONE	-	1658.0
-1735.0		BASE BARLOW	LIMESTONE	-	2120.0
-2054.0	RENAULT	BASE RENAULT	LIMESTONE	-	2439.0

MAPID: 18501937000C **VERSION:** 2 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.78512 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.37912 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 2550.0 **LOG TYPE:** Electric Log
SOURCE: RYAN & SHARP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	CARBONDALE	HERRIN	COAL	4.0	512.0
-199.0	CARBONDALE	BRIAR HILL	COAL	-	584.0
-220.0	CARBONDALE	SPRINGFIELD	COAL	5.0	605.0
-322.0	CARBONDALE	HOUCHIN CREEK	COAL	-	707.0

MAPID: 18501937000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 31 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.78512 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.37912 DATE COLLECTED: 7 / 3 / 1953

SURFACE ELEVATION (FT.): 385.0 LOGGED (FT.): 2550.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
119.0	SHELBURN	WEST FRANKLIN	LIMESTONE	3.5	266.0	
-77.0	SHELBURN	DANVILLE	COAL	3.0	462.0	
-127.0	CARBONDALE	HERRIN	COAL	3.0	512.0	
-199.0	CARBONDALE	BRIAR HILL	COAL	3.0	584.0	
-221.0	CARBONDALE	SPRINGFIELD	COAL	4.0	606.0	
-327.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	712.0	
-354.0	CARBONDALE	SURVANT	COAL	1.0	739.0	
-405.0	CARBONDALE	COLCHESTER	COAL	-	790.0	
-425.0	CARBONDALE	DEKOVEN	COAL	1.0	810.0	
-449.0	CARBONDALE	DAVIS	COAL	3.7	834.0	
-475.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	860.0	

MAPID: 18526415000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 31 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.789799 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.392759 DATE COLLECTED: 8 / 3 / 1978

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 140.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 77795 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
450.0	MATTOON		DARK SHALE	5.0	25.0	
445.0	MATTOON		GRAY SHALE	27.0	30.0	
418.0	MATTOON	FRIENDSVILLE	COAL	3.0	57.0	DO NOT USE FOR RESOURCE CALCULATIONS
415.0	BOND		LIMESTONE	1.0	60.0	
414.0	BOND		DARK SHALE	14.0	61.0	
400.0	BOND		GRAY SHALE	5.0	75.0	
395.0	BOND		SANDSTONE	5.0	80.0	
390.0	BOND		DARK SHALE	5.0	85.0	
385.0	BOND		SANDSTONE	10.0	90.0	
375.0	BOND		COAL	3.0	100.0	DO NOT USE FOR RESOURCE CALCULATIONS
372.0	BOND		DARK SHALE	2.0	103.0	
370.0	BOND		SANDSTONE	35.0	105.0	

MAPID: 18527448000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 31 QUARTERS/FOOTAGES: NE NW NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.794699 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.392837 DATE COLLECTED: 9 / 11 / 1981
 SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 135.0 LOG TYPE: Drillers Log
 SOURCE: GEOLOGICAL AND WATER SURVEY 101285 WELL TYPE: Water Well
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0			CLAY	19.0	0.0	
426.0	BOND		DARK SHALE	6.0	19.0	
420.0	BOND		GRAY SHALE	40.0	25.0	
380.0	BOND		COAL	2.0	65.0	DO NOT USE FOR RESOURCE CALCULATIONS
378.0	BOND		LIMESTONE	3.0	67.0	
375.0	BOND		DARK SHALE	5.0	70.0	
370.0	BOND	FLANNIGAN	COAL	3.0	75.0	DO NOT USE FOR RESOURCE CALCULATIONS
367.0	BOND		LIMESTONE	1.0	78.0	
366.0	BOND		DARK SHALE	16.0	79.0	
350.0	BOND	MT. CARMEL	SANDSTONE	5.0	95.0	
345.0	BOND	MT. CARMEL	GRAY SHALE	7.0	100.0	
338.0	BOND	MT. CARMEL	SANDSTONE	28.0	107.0	

MAPID: 18500199000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 405' W line of NE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.76807 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.386567 DATE COLLECTED: 5 / 1 / 1941
 SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 2507.0 LOG TYPE: Nuclear Log
 SOURCE: WELL TYPE: Dry Hole
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
156.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	241.0	
-20.0	SHELBURN	DANVILLE	COAL	2.0	417.0	
-80.0	CARBONDALE	HERRIN	COAL	3.0	477.0	
-155.0	CARBONDALE	BRIAR HILL	COAL	2.0	552.0	
-173.0	CARBONDALE	SPRINGFIELD	COAL	6.7	570.0	
-293.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	690.0	
-305.0	CARBONDALE	SURVANT	COAL	2.3	702.0	
-385.0	CARBONDALE	COLCHESTER	COAL	0.5	782.0	
-425.0	CARBONDALE	DAVIS	COAL	5.0	822.0	
-454.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	4.0	851.0	

MAPID: 18500199000C VERSION: 2 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 405' W line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.76807 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.386567 DATE COLLECTED:
SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 2365.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	246.0
-83.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	480.0
-1242.0			LIMESTONE	-	1639.0
-1684.0		BASE BARLOW	LIMESTONE	-	2081.0
-1968.0	RENAULT	BASE RENAULT	LIMESTONE	-	2365.0

MAPID: 18501560000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772869 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.392526 DATE COLLECTED:
SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2347.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
149.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	244.0
-83.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	476.0
-1212.0			LIMESTONE	-	1605.0
-1668.0		BASE BARLOW	LIMESTONE	-	2061.0
-1954.0	RENAULT	BASE RENAULT	LIMESTONE	-	2347.0

MAPID: 18501560000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1S 12W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.772869 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.392526 DATE COLLECTED:
SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2511.0 LOG TYPE: Electric Log
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-84.0	CARBONDALE	HERRIN	COAL	3.0	477.0
-156.0	CARBONDALE	BRIAR HILL	COAL	-	549.0
-177.0	CARBONDALE	SPRINGFIELD	COAL	6.0	570.0
-274.0	CARBONDALE	HOUCHIN CREEK	COAL	-	667.0

MAPID: 18502734000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 12W **SECTION:** 32 **QUARTERS/FOOTAGES:** 1163' S line, 1700' W line
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.773033 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.38126 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 2400.0 **LOG TYPE:**
SOURCE: KIEFER BROS CONST **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	246.0
-98.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	495.0
-1278.0			LIMESTONE	-	1675.0
-1712.0		BASE BARLOW	LIMESTONE	-	2109.0
-2003.0	RENAULT	BASE RENAULT	LIMESTONE	-	2400.0

MAPID: 18501938000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.804044 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.460058 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 1671.0 **LOG TYPE:** Electric Log
SOURCE: OIL MANAGEMENT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-128.0	CARBONDALE	DANVILLE	COAL	-	590.0
-140.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	602.0
-144.0	CARBONDALE	ANVIL ROCK	SILTY SHALE	-	606.0
-159.0	CARBONDALE	HERRIN	COAL	-	621.0
-178.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	3.0	640.0
-216.0	CARBONDALE	BRIAR HILL	COAL	-	678.0
-220.0	CARBONDALE	CANTON	SHALE & SILTSTONE	10.0	682.0
-235.0	CARBONDALE	SPRINGFIELD	COAL	3.0	697.0
-248.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	6.0	710.0
-333.0	CARBONDALE	HOUCHIN CREEK	COAL	-	795.0

MAPID: 18502486000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 1 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.803987 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.456409 DATE COLLECTED: 10 / 6 / 1956

SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 1670.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
309.0	BOND	MT. CARMEL	SANDSTONE	120.0	150.0
149.0	PATOKA	MACOUPIN	LIMESTONE	3.0	310.0
63.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.5	396.0
-136.0	SHELBURN	DANVILLE	COAL	3.8	595.0
-162.0	CARBONDALE	HERRIN	COAL	4.0	621.0
-229.0	CARBONDALE	BRIAR HILL	COAL	0.8	688.0
-251.0	CARBONDALE	SPRINGFIELD	COAL	4.0	710.0
-341.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	800.0
-456.0	CARBONDALE	COLCHESTER	COAL	-	915.0
-501.0	CARBONDALE	DAVIS	COAL	4.0	960.0
-532.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	991.0

MAPID: 18505335000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.807738 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.459173 DATE COLLECTED: 7 / 27 / 1957

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 46 FR WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE NE CORNER NW 12-1S-13W

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
480.0			UNCONSOLIDATED	18.0	0.0
462.0			SHALEY CLAYSTONE	2.8	18.0 GRAY
459.2			SHALY COAL	3.6	20.8 WITH PYRITE
455.6			SANDY CLAYSTONE	3.6	24.4 DK GRY
452.0			FOSSILIFEROUS SHALE	0.8	28.0
451.2			FOSSILIFEROUS LIMESTONE	0.3	28.8 GRAY
450.8			GRAY SHALE	0.8	29.2

MAPID: 18505745000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 1

QUARTERS/FOOTAGES: 0' S line, 75' E line of SE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.808001

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.459174

DATE COLLECTED: 5 / 14 / 1969

SURFACE ELEVATION (FT.): 500.0

LOGGED (FT.): 270.0

LOG TYPE: Drillers Log

SOURCE: R.L. XANDERS

NF5689

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	14.0	0.0	SOIL AND CLAY
486.0			SANDSTONE	11.0	14.0	
475.0			BLUE SHALE	15.0	25.0	
460.0			LIMESTONE	2.0	40.0	
458.0			BLUE SHALE	18.0	42.0	
440.0			LIMESTONE	3.0	60.0	
437.0			BLUE SHALE	8.0	63.0	
429.0			LIMESTONE	5.0	71.0	
424.0			COAL	3.0	76.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
421.0			BLUE SHALE	13.0	79.0	
408.0			GRAY SHALE	18.0	92.0	
390.0			SANDSTONE	2.0	110.0	
388.0			GRAY SHALE	29.0	112.0	
359.0			COAL	2.0	141.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
357.0			GRAY SHALE	62.0	143.0	
295.0			LIMESTONE	2.0	205.0	
293.0			GRAY SHALE	10.0	207.0	
283.0			LIMESTONE	3.0	217.0	
280.0			GRAY SHALE	47.0	220.0	GY SH W/ SS STREAKS
233.0			LIMESTONE	3.0	267.0	

MAPID: 18527449000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 1 QUARTERS/FOOTAGES: NW NE NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.811513 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.465579 DATE COLLECTED: 9 / 12 / 1980
 SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 318.0 LOG TYPE: Drillers Log
 SOURCE: GEOLOGICAL AND WATER SURVEY 96092 WELL TYPE: Water Well
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0			CLAY	10.0	0.0	
505.0	MATTOON		SANDSTONE	6.0	10.0	
499.0	MATTOON		DARK SHALE	19.0	16.0	
480.0	MATTOON	KEENSBURG	COAL	2.0	35.0	DO NOT USE FOR RESOURCE CALCULATIONS
478.0	MATTOON		DARK SHALE	8.0	37.0	
470.0	MATTOON		GRAY SHALE	5.0	45.0	
465.0	MATTOON		SANDSTONE	15.0	50.0	
450.0	MATTOON		DARK SHALE	11.0	65.0	
439.0	MATTOON	FRIENDSVILLE	COAL	5.0	76.0	DO NOT USE FOR RESOURCE CALCULATIONS
434.0	BOND		LIMESTONE	4.0	81.0	
430.0	BOND		SANDY SHALE	10.0	85.0	
420.0	BOND		LIMESTONE	5.0	95.0	
415.0	BOND		SANDY SHALE	8.0	100.0	
407.0	BOND		COAL	2.0	108.0	DO NOT USE FOR RESOURCE CALCULATIONS
405.0	BOND		GRAY SHALE	15.0	110.0	
390.0	BOND		SANDSTONE	30.0	125.0	
360.0	BOND		DARK SHALE	70.0	155.0	
290.0	BOND		SANDY SHALE	45.0	225.0	
245.0	BOND	MT. CARMEL	SANDSTONE	48.0	270.0	

MAPID: 18500946000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 2 QUARTERS/FOOTAGES: 430' N line, 330' E line of SE NE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818684 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.461705 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 2692.0 LOG TYPE: Electric Log
 SOURCE: OLDS OIL & MCNEILL WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-183.0	CARBONDALE	DANVILLE	COAL	-	680.0	
-205.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	702.0	
-216.0	CARBONDALE	HERRIN	COAL	3.0	713.0	
-253.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	20.0	750.0	
-289.0	CARBONDALE	SPRINGFIELD	COAL	4.0	786.0	
-379.0	CARBONDALE	HOUCHIN CREEK	COAL	-	876.0	

MAPID: 18502422000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 2

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

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.826071

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.458361

DATE COLLECTED: 5 / 31 / 1956

SURFACE ELEVATION (FT.): 454.0

LOGGED (FT.): 2307.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
279.0	BOND	REEL	LIMESTONE	1.0	175.0
234.0	BOND	MT. CARMEL	SANDSTONE	65.0	220.0
164.0	BOND	CARTHAGE	LIMESTONE	3.0	290.0
92.0	PATOKA	MACOUPIN	LIMESTONE	2.0	362.0
4.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	450.0
-211.0	SHELBURN	DANVILLE	COAL	3.0	665.0
-243.0	CARBONDALE	HERRIN	COAL	4.0	697.0
-306.0	CARBONDALE	BRIAR HILL	COAL	1.4	760.0
-343.0	CARBONDALE	SPRINGFIELD	COAL	6.0	797.0
-399.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	853.0
-555.0	CARBONDALE	DAVIS	COAL	3.5	1009.0
-585.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1039.0

MAPID: 18505736000C
VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH
TWP/RNG: 1S 13W
SECTION: 2

QUADANGLE: MOUNT CARMEL
LONGITUDE: -87.817649

CONFIDENTIAL: N
LATITUDE: 38.46198

SURFACE ELEVATION (FT.): 500.0
LOGGED (FT.): 250.0

SOURCE: GEOLOGICAL AND WATER SURVEY NF5730

QUARTERS/FOOTAGES: 1650' N line, 33' E line
GEOLOGIST: JACOBSON

DATE COLLECTED: 4 / 14 / 1969
LOG TYPE: Drillers Log

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	16.0	0.0	SOIL AND CLAY
484.0	MATTOON		GRAY SHALE	14.0	16.0	
470.0	MATTOON		COAL	2.0	30.0	DO NOT USE FOR RESOURCE CALCULATIONS
468.0	MATTOON		GRAY SHALE	3.0	32.0	
465.0	MATTOON		GRAY SHALE	5.0	35.0	
460.0	MATTOON		SANDSTONE	5.0	40.0	SS & LS
455.0	MATTOON		SANDSTONE	20.0	45.0	
435.0	MATTOON		GRAY SHALE	10.0	65.0	
425.0	MATTOON	FRIENDSVILLE	COAL	5.0	75.0	DO NOT USE FOR RESOURCE CALCULATIONS
420.0	BOND		SANDSTONE	5.0	80.0	
415.0	BOND		DARK SHALE	5.0	85.0	
410.0	BOND		SANDSTONE	24.0	90.0	
386.0	BOND		SANDSTONE	26.0	114.0	
360.0	BOND		GRAY SHALE	6.0	140.0	
354.0	BOND		SANDSTONE	12.0	146.0	
342.0	BOND		SANDSTONE	7.0	158.0	
335.0	BOND		DARK SHALE	35.0	165.0	
300.0	BOND	FLANNIGAN	COAL	3.0	200.0	DO NOT USE FOR RESOURCE CALCULATIONS
297.0	BOND		GRAY SHALE	5.0	203.0	
292.0	BOND		DARK SHALE	17.0	208.0	
275.0	BOND	MT. CARMEL	SANDSTONE	5.0	225.0	
270.0	BOND	MT. CARMEL	LIMESTONE	5.0	230.0	
265.0	BOND	MT. CARMEL	SANDSTONE	15.0	235.0	

MAPID: 18527450000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 2 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823474 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.452867 DATE COLLECTED: 9 / 16 / 1983

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 109439 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
495.0			CLAY	11.0	0.0	
484.0	MATTOON		LIMESTONE	2.0	11.0	
482.0	MATTOON		SANDSTONE	3.0	13.0	
479.0	MATTOON		DARK SHALE	19.0	16.0	
460.0	MATTOON	KEENSBURG	COAL	3.0	35.0	DO NOT USE FOR RESOURCE CALCULATIONS
457.0	MATTOON		GRAY SHALE	7.0	38.0	
450.0	MATTOON		DARK SHALE	20.0	45.0	
430.0	MATTOON		SANDY SHALE	16.0	65.0	
414.0	MATTOON	FRIENDSVILLE	COAL	4.0	81.0	DO NOT USE FOR RESOURCE CALCULATIONS
410.0	BOND		LIMESTONE	1.0	85.0	
409.0	BOND		DARK SHALE	4.0	86.0	
405.0	BOND		SANDSTONE	38.0	90.0	
367.0	BOND		GRAY SHALE	27.0	128.0	
340.0	BOND		DARK SHALE	50.0	155.0	
290.0	BOND	FLANNIGAN	COAL	3.0	205.0	DO NOT USE FOR RESOURCE CALCULATIONS
287.0	BOND		GRAY SHALE	7.0	208.0	
280.0	BOND		LIMESTONE	3.0	215.0	
277.0	BOND		GRAY SHALE	36.0	218.0	
241.0	BOND	MT. CARMEL	SANDSTONE	46.0	254.0	

MAPID: 18527598000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 2 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823474 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.452867 DATE COLLECTED: 10 / 23 / 1986

SURFACE ELEVATION (FT.): LOGGED (FT.): 295.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 127669 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	10.0	0.0	
-	MATTOON		SANDSTONE	5.0	10.0	
-	MATTOON		GRAY SHALE	15.0	15.0	
-	MATTOON		COAL	2.0	30.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	MATTOON		GRAY SHALE	18.0	32.0	
-	MATTOON		LIMESTONE	2.0	50.0	
-	MATTOON		GRAY SHALE	2.0	52.0	
-	MATTOON		SANDSTONE	10.0	54.0	
-	MATTOON		GRAY SHALE	5.0	64.0	
-	MATTOON	FRIENDSVILLE	COAL	2.0	69.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	15.0	71.0	
-	BOND		COAL	2.0	86.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		LIMESTONE	1.0	88.0	
-	BOND		SANDSTONE	46.0	89.0	
-	BOND		GRAY SHALE	61.0	135.0	
-	BOND	REEL	LIMESTONE	4.0	196.0	
-	BOND	MT. CARMEL	SANDSTONE	55.0	200.0	
-	BOND	MT. CARMEL	SANDSTONE	40.0	255.0	

MAPID: 18500086000C

VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 3

QUARTERS/FOOTAGES: 660' N line, 330' E line of SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.838171

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.457497

DATE COLLECTED:

SURFACE ELEVATION (FT.): 488.0

LOGGED (FT.): 2478.0

LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-218.0	CARBONDALE	DANVILLE	COAL	-	706.0
-238.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	726.0
-248.0	CARBONDALE	HERRIN	COAL	4.0	736.0
-282.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	10.0	770.0
-312.0	CARBONDALE	BRIAR HILL	COAL	-	800.0
-352.0	CARBONDALE	SPRINGFIELD	COAL	6.0	840.0
-370.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	22.0	858.0
-408.0	CARBONDALE	HOUCHIN CREEK	COAL	-	896.0

MAPID: 18500086000C

VERSION: 3

PROJECT: CONTROL

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 3

QUARTERS/FOOTAGES: 660' N line, 330' E line of SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.838171

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 38.457497

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2478.0

LOG TYPE: Survey Sample Study

SOURCE: SKILES, C. E., INC.

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: 18500948000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.847514 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.463908 DATE COLLECTED: 10 / 0 / 1944

SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 1898.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
287.0	BOND	REEL	LIMESTONE	3.0	152.0
239.0	BOND	MT. CARMEL	SANDSTONE	116.0	200.0
95.0	PATOKA	MACOUPIN	LIMESTONE	1.0	344.0
18.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	421.0
-202.0	SHELBURN	DANVILLE	COAL	3.5	641.0
-230.0	CARBONDALE	HERRIN	COAL	3.2	669.0
-304.0	CARBONDALE	BRIAR HILL	COAL	1.0	743.0
-338.0	CARBONDALE	SPRINGFIELD	COAL	6.2	777.0
-409.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	848.0
-553.0	CARBONDALE	DAVIS	COAL	4.3	992.0
-583.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1022.0

MAPID: 18501951000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.851981 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.456596 DATE COLLECTED: 9 / 27 / 1951

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 2720.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
282.0	BOND	REEL	LIMESTONE	1.0	163.0
235.0	BOND	MT. CARMEL	SANDSTONE	90.0	210.0
145.0	BOND	CARTHAGE	LIMESTONE	9.0	300.0
82.0	PATOKA	MACOUPIN	LIMESTONE	1.0	363.0
-3.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.3	448.0
-215.0	SHELBURN	DANVILLE	COAL	3.0	660.0
-245.0	CARBONDALE	HERRIN	COAL	3.0	690.0
-315.0	CARBONDALE	BRIAR HILL	COAL	1.2	760.0
-348.0	CARBONDALE	SPRINGFIELD	COAL	8.0	793.0
-415.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	860.0
-472.0	CARBONDALE	COLCHESTER	COAL	-	917.0
-548.0	CARBONDALE	DAVIS	COAL	3.5	993.0
-579.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1024.0

MAPID: 185238A0003F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 3 QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854278 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.456604 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 41.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: FIELD NOTES-SECOND RODRICK MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
402.0	MATTOON	FRIENDSVILLE	COAL	3.0	38.0	

MAPID: 185238A0002F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 3 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.85459 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.465751 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 29.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: FIELD NOTES FROM RODRICK MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
394.0	MATTOON	FRIENDSVILLE	COAL	3.0	26.0	

MAPID: 18527665000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 3 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854151 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.452944 DATE COLLECTED: 11 / 20 / 1987

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 137615 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0			CLAY	11.0	0.0	
424.0	MATTOON		SANDSTONE	5.0	11.0	
419.0	MATTOON		LIMESTONE	1.0	16.0	
418.0	MATTOON		SANDSTONE	3.0	17.0	
415.0	MATTOON		BROWN SHALE	5.0	20.0	
410.0	MATTOON		GRAY SHALE	11.0	25.0	
399.0	MATTOON	FRIENDSVILLE	COAL	1.0	36.0	DO NOT USE FOR RESOURCE CALCULATIONS
398.0	BOND		GRAY SHALE	41.0	37.0	
357.0	BOND		COAL	2.0	78.0	DO NOT USE FOR RESOURCE CALCULATIONS
355.0	BOND		GRAY SHALE	4.0	80.0	
351.0	BOND		LIMESTONE	8.0	84.0	
343.0	BOND		COAL	1.0	92.0	DO NOT USE FOR RESOURCE CALCULATIONS
342.0	BOND		GRAY SHALE	7.0	93.0	
335.0	BOND		LIMESTONE	2.0	100.0	
333.0	BOND		GRAY SHALE	18.0	102.0	
315.0	BOND		SANDSTONE	25.0	120.0	
290.0	BOND		GRAY SHALE	7.0	145.0	
283.0	BOND	WITT	COAL	3.0	152.0	DO NOT USE FOR RESOURCE CALCULATIONS
280.0	BOND		GRAY SHALE	9.0	155.0	
271.0	BOND		SANDSTONE	5.0	164.0	
266.0	BOND		GRAY SHALE	6.0	169.0	
260.0	BOND		SANDY SHALE	5.0	175.0	
255.0	BOND		GRAY SHALE	45.0	180.0	
210.0	BOND		SANDY SHALE	15.0	225.0	
195.0	BOND	MT. CARMEL	SANDSTONE	60.0	240.0	

MAPID: 18501955000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.861325 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.45848 DATE COLLECTED: 2 / 21 / 1953

SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 1749.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
329.0	BOND	WITT	COAL	1.0	90.0
269.0	BOND	REEL	LIMESTONE	2.0	150.0
219.0	BOND	MT. CARMEL	SANDSTONE	90.0	200.0
70.0	PATOKA	MACOUPIN	LIMESTONE	1.0	349.0
-15.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	434.0
-236.0	SHELBURN	DANVILLE	COAL	3.6	655.0
-263.0	CARBONDALE	HERRIN	COAL	3.0	682.0
-341.0	CARBONDALE	BRIAR HILL	COAL	2.0	760.0
-374.0	CARBONDALE	SPRINGFIELD	COAL	7.0	793.0
-444.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	863.0
-501.0	CARBONDALE	COLCHESTER	COAL	-	920.0
-578.0	CARBONDALE	DAVIS	COAL	4.0	997.0
-604.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1023.0

MAPID: 18501955000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.861325 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.45848 DATE COLLECTED:

SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 1749.0 LOG TYPE: Electric Log

SOURCE: COLUMBUS EXPLORATION WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-236.0	CARBONDALE	DANVILLE	COAL	-	655.0
-245.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	664.0
-257.0	CARBONDALE	HERRIN	COAL	3.0	676.0
-278.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	49.0	697.0
-341.0	CARBONDALE	BRIAR HILL	COAL	-	760.0
-343.0	CARBONDALE	CANTON	SANDSTONE/SHALE	9.0	762.0
-374.0	CARBONDALE	SPRINGFIELD	COAL	8.0	793.0
-376.0	CARBONDALE	SS BELOW NO. 5	SHALE & SANDSTONE	-	795.0
-439.0	CARBONDALE	HOUCHIN CREEK	COAL	-	858.0

MAPID: 18505315000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 4 QUARTERS/FOOTAGES: E2 SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.857733

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.455714

DATE COLLECTED: 6 / 8 / 1957

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 150.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 6 FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			UNCONSOLIDATED	27.0	0.0	
403.0			SHALY SANDSTONE	5.7	27.0	GRAY
397.4			SHALEY CLAYSTONE	2.7	32.6	GRAY
394.7			PYRITE	0.1	35.3	
394.6			SHALY COAL	3.7	35.4	
390.9			CARBONACEOUS SHALE	0.4	39.1	
390.5			SANDY SHALE	1.1	39.5	
389.4			LIMESTONE	1.0	40.6	GRAY
388.4			GRAY SHALE	10.8	41.6	
377.7			COAL	0.3	52.3	
377.3			GRAY SHALE	4.5	52.7	
372.8			SHALY SANDSTONE	7.4	57.2	GRAY
365.4			SANDSTONE	15.3	64.6	WITH SHALEY STREAKS; GRAY
350.1			SANDY SHALE	16.7	79.9	
333.4			CALCAREOUS SHALE	1.2	96.6	
332.2			BLACK SHALE	0.3	97.8	
332.0			LIMESTONE	0.3	98.0	GRAY
331.7			BLACK SHALE	0.2	98.3	
331.5			COAL	0.4	98.5	
331.1			CLAYSTONE	6.2	98.9	DK GRAY
324.9			SHALY LIMESTONE	3.9	105.1	GRAY
321.0			SANDY SHALE	21.4	109.0	
299.6			GRAY SHALE	19.6	130.4	

MAPID: 18500964000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE

QUADRANGLE: BONE GAP LONGITUDE: -87.882186 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.458683 DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2803.0 LOG TYPE: Electric Log

SOURCE: SHARP OLEN D WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-276.0	CARBONDALE	DANVILLE	COAL	-	680.0
-291.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	695.0
-304.0	CARBONDALE	HERRIN	COAL	3.0	708.0
-312.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	58.0	716.0
-376.0	CARBONDALE	BRIAR HILL	COAL	-	780.0
-381.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	10.0	785.0
-416.0	CARBONDALE	SPRINGFIELD	COAL	7.0	820.0
-432.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	24.0	836.0
-494.0	CARBONDALE	HOUCHIN CREEK	COAL	-	898.0

MAPID: 18502395000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SW

QUADRANGLE: BONE GAP LONGITUDE: -87.886524 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.455369 DATE COLLECTED: 7 / 23 / 1956

SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 2550.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
278.0	BOND	WITT	COAL	-	125.0
221.0	BOND	REEL	LIMESTONE	1.0	182.0
163.0	BOND	MT. CARMEL	SANDSTONE	50.0	240.0
102.0	BOND	CARTHAGE	LIMESTONE	5.0	301.0
29.0	PATOKA	MACOUPIN	LIMESTONE	1.4	374.0
-59.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	462.0
-279.0	SHELBURN	DANVILLE	COAL	3.0	682.0
-307.0	CARBONDALE	HERRIN	COAL	2.8	710.0
-376.0	CARBONDALE	BRIAR HILL	COAL	1.3	779.0
-404.0	CARBONDALE	SPRINGFIELD	COAL	3.8	807.0
-525.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	928.0
-587.0	CARBONDALE	COLCHESTER	COAL	-	990.0
-666.0	CARBONDALE	DAVIS	COAL	4.0	1069.0
-695.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1098.0

MAPID: 18501962000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 6 QUARTERS/FOOTAGES: 2477' S line, 330' E line of SE

QUADRANGLE: BONE GAP LONGITUDE: -87.893405 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.461518 DATE COLLECTED:

SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 2565.0 LOG TYPE: Electric Log

SOURCE: HAYES&WOLF BROTHERS OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-247.0	CARBONDALE	DANVILLE	COAL	-	650.0
-259.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	662.0
-272.0	CARBONDALE	HERRIN	COAL	2.0	675.0
-281.0	CARBONDALE	VERMILIONVILLE	SANDSTONE/SHALE	-	684.0
-341.0	CARBONDALE	BRIAR HILL	COAL	-	744.0
-354.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	9.0	757.0
-373.0	CARBONDALE	SPRINGFIELD	COAL	4.0	776.0
-403.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	56.0	806.0
-495.0	CARBONDALE	HOUCHIN CREEK	COAL	-	898.0

MAPID: 18501339000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.898228 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.444379 DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 2580.0 LOG TYPE: Electric Log

SOURCE: HAYES&WOLF BROTHERS OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-246.0	CARBONDALE	DANVILLE	COAL	-	642.0
-257.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	653.0
-274.0	CARBONDALE	HERRIN	COAL	2.0	670.0
-296.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	40.0	692.0
-364.0	CARBONDALE	SPRINGFIELD	COAL	4.0	760.0
-396.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	18.0	792.0
-482.0	CARBONDALE	HOUCHIN CREEK	COAL	-	878.0

MAPID: 18501968000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 8 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE
QUADRANGLE: BONE GAP LONGITUDE: -87.882075 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.444179 DATE COLLECTED:
SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2819.0 LOG TYPE: Electric Log
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-254.0	CARBONDALE	DANVILLE	COAL	-	658.0
-262.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	666.0
-268.0	CARBONDALE	ANVIL ROCK	SILTSTONE	5.0	672.0
-284.0	CARBONDALE	HERRIN	COAL	3.0	688.0
-298.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	60.0	702.0
-360.0	CARBONDALE	BRIAR HILL	COAL	-	764.0
-366.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	6.0	770.0
-386.0	CARBONDALE	SPRINGFIELD	COAL	2.0	790.0
-391.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	55.0	795.0
-510.0	CARBONDALE	HOUCHIN CREEK	COAL	-	914.0

MAPID: 18504270000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 8 QUARTERS/FOOTAGES: 330' N line, 430' W line of SE
QUADRANGLE: BONE GAP LONGITUDE: -87.881724 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.444174 DATE COLLECTED: 8 / 12 / 1954
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2575.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
221.0	BOND	REEL	LIMESTONE	3.0	187.0
204.0	BOND	MT. CARMEL	SANDSTONE	71.0	204.0
38.0	PATOKA	MACOUPIN	LIMESTONE	1.0	370.0
-47.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.3	455.0
-252.0	SHELBURN	DANVILLE	COAL	2.0	660.0
-284.0	CARBONDALE	HERRIN	COAL	3.5	692.0
-357.0	CARBONDALE	BRIAR HILL	COAL	-	765.0
-382.0	CARBONDALE	SPRINGFIELD	COAL	3.0	790.0
-512.0	CARBONDALE	HOUCHIN CREEK	COAL	3.8	920.0
-574.0	CARBONDALE	COLCHESTER	COAL	-	982.0
-585.0	CARBONDALE	DEKOVEN	COAL	2.5	993.0
-639.0	CARBONDALE	DAVIS	COAL	3.6	1047.0
-667.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1075.0

MAPID: 18590100000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 8 QUARTERS/FOOTAGES: 570' N line, 390' W line of SE
QUADRANGLE: BONE GAP LONGITUDE: -87.881869 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.443513 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.2 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1213 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
403.2	PLEISTOCENE		SOIL	19.8	0.0
383.4	MATTOON		SANDSTONE	4.1	19.8
379.3	MATTOON		SHALE	5.4	23.9
373.9	MATTOON	FRIENDSVILLE	COAL	3.4	29.3
370.5	BOND		SHALE	1.5	32.7
369.0	BOND	LIVINGSTON	LIMESTONE	0.8	34.2

MAPID: 18590101000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 8 QUARTERS/FOOTAGES: 570' N line, 1200' W line of SE
QUADRANGLE: BONE GAP LONGITUDE: -87.879026 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.443482 DATE COLLECTED:
SURFACE ELEVATION (FT.): 407.6 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1209 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
407.6	PLEISTOCENE		SOIL	14.7	0.0
392.9	MATTOON		SANDSTONE	7.7	14.7
385.2	MATTOON		SHALE	4.4	22.4
380.8	MATTOON	FRIENDSVILLE	COAL	3.4	26.8
377.4	BOND		SHALE	1.5	30.2
375.9	BOND	LIVINGSTON	LIMESTONE	0.3	31.7

MAPID: 18590102000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 8 QUARTERS/FOOTAGES: 600' N line, 920' E line of SE
QUADRANGLE: BONE GAP LONGITUDE: -87.877301 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.44338 DATE COLLECTED:
SURFACE ELEVATION (FT.): 412.5 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1206 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
412.5	PLEISTOCENE		SOIL	13.5	0.0
399.0	MATTOON		SANDSTONE	5.1	13.5
393.9	MATTOON		SHALE	18.0	18.6
375.9	MATTOON	FRIENDSVILLE	COAL	3.2	36.6
372.7	BOND		SHALE	1.7	39.8
371.0	BOND	LIVINGSTON	LIMESTONE	0.5	41.5

MAPID: 18590103000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 8 QUARTERS/FOOTAGES: 570' N line, 600' E line of SE
QUADRANGLE: BONE GAP LONGITUDE: -87.876176 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.44345 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.3 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1204 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
417.3	PLEISTOCENE		SOIL	15.8	0.0
401.5	MATTOON		SANDSTONE	6.4	15.8
395.1	MATTOON		SHALE	19.6	22.2
375.5	MATTOON	FRIENDSVILLE	COAL	3.0	41.8
372.5	BOND		SHALE	1.1	44.8
371.4	BOND	LIVINGSTON	LIMESTONE	0.1	45.9

MAPID: 18590104000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 8 **QUARTERS/FOOTAGES:** 590' N line, 320' E line of SE
QUADRANGLE: BONE GAP **LONGITUDE:** -87.875195 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.443384 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.8 **LOGGED (FT.):** 47.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. 1190 **WELL TYPE:** Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
417.8	PLEISTOCENE		SOIL	14.6	0.0
403.2	MATTOON		SANDSTONE	5.1	14.6
398.1	MATTOON		SANDSTONE	2.9	19.7
395.2	MATTOON		SHALE	18.7	22.6
376.5	MATTOON	FRIENDSVILLE	COAL	3.7	41.3
372.8	BOND		SHALE	2.0	45.0

MAPID: 18501693000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 9 **QUARTERS/FOOTAGES:** 485' N line, 330' E line of SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.856248 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.443461 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 1810.0 **LOG TYPE:** Electric Log
SOURCE: GOPHER DRILLING CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-203.0	CARBONDALE	DANVILLE	COAL	-	704.0
-217.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	718.0
-232.0	CARBONDALE	HERRIN	COAL	3.0	733.0
-249.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	50.0	750.0
-305.0	CARBONDALE	BRIAR HILL	COAL	-	806.0
-309.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	8.0	810.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	3.0	834.0
-363.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE/SANDSTONE	12.0	864.0
-437.0	CARBONDALE	HOUCHIN CREEK	COAL	-	938.0

MAPID: 18502171000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 9 QUARTERS/FOOTAGES: 990' S line, 1650' E line of N2 SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.870363 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.444047 DATE COLLECTED: 6 / 3 / 1955
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2603.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
256.0	BOND	REEL	LIMESTONE	2.5	175.0
231.0	BOND	MT. CARMEL	SANDSTONE	110.0	200.0
59.0	PATOKA	MACOUPIN	LIMESTONE	1.0	372.0
-27.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	458.0
-233.0	SHELBURN	DANVILLE	COAL	3.0	664.0
-261.0	CARBONDALE	HERRIN	COAL	3.0	692.0
-325.0	CARBONDALE	BRIAR HILL	COAL	1.3	756.0
-353.0	CARBONDALE	SPRINGFIELD	COAL	4.5	784.0
-476.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	907.0
-533.0	CARBONDALE	COLCHESTER	COAL	-	964.0
-613.0	CARBONDALE	DAVIS	COAL	4.5	1044.0
-642.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1073.0

MAPID: 18590105000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 9 QUARTERS/FOOTAGES: 590' N line, 60' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.873859 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.443459 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.2 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1186 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
425.2	PLEISTOCENE		SOIL	15.9	0.0
409.3	MATTOON		SANDSTONE	3.3	15.9
406.0	MATTOON		SHALE	22.1	19.2
383.9	MATTOON	FRIENDSVILLE	COAL	3.2	41.3
380.7	BOND		SHALE	1.7	44.5
379.0	BOND	LIVINGSTON	LIMESTONE	0.8	46.2

MAPID: 18590106000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 9 QUARTERS/FOOTAGES: 600' N line, 340' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.872877 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.44342 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.5 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1182 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
426.5	PLEISTOCENE		SOIL	13.8	0.0
412.7	MATTOON		SANDSTONE	3.8	13.8
408.9	MATTOON		SHALE	6.2	17.6
402.7	MATTOON		SHALE	4.5	23.8
398.2	MATTOON		SHALE	6.0	28.3
392.2	MATTOON	FRIENDSVILLE	COAL	1.8	34.3
390.4	MATTOON	FRIENDSVILLE	SHALE	0.2	36.1
390.2	MATTOON	FRIENDSVILLE	COAL	1.2	36.3
389.0	BOND		SHALE	2.7	37.5
386.3	BOND	LIVINGSTON	LIMESTONE	0.8	40.2

MAPID: 18590107000C VERSION: 1 PROJECT: LUMP
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 9 QUARTERS/FOOTAGES: 1330' S line, 1000' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.868132 GEOLOGIST: NORTH
CONFIDENTIAL: N LATITUDE: 38.441318 DATE COLLECTED:
SURFACE ELEVATION (FT.): 428.6 LOGGED (FT.): 99.9 LOG TYPE: Drillers Log
SOURCE: VIGO COAL CO. 1159 WELL TYPE: Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
428.6	PLEISTOCENE		SOIL	13.9	0.0
414.7	MATTOON		SANDSTONE	11.6	13.9
403.1	MATTOON		SHALE	5.0	25.5
398.1	MATTOON	FRIENDSVILLE	COAL	3.1	30.5
395.0	BOND		SHALE	2.4	33.6
392.6	BOND	LIVINGSTON	LIMESTONE	1.6	36.0
391.0	BOND		SANDSTONE	3.4	37.6
387.6	BOND		COAL	2.2	41.0
385.4	BOND		SHALE	11.5	43.2
373.9	BOND		SHALE	9.5	54.7
364.4	BOND		SANDSTONE	35.7	64.2

MAPID: 18500118000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.838081 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.449256 DATE COLLECTED:

SURFACE ELEVATION (FT.): 487.0 LOGGED (FT.): 2348.0 LOG TYPE: Electric Log

SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-281.0	CARBONDALE	HERRIN	COAL	4.0	768.0	
-353.0	CARBONDALE	BRIAR HILL	COAL	-	840.0	
-395.0	CARBONDALE	SPRINGFIELD	COAL	7.0	882.0	
-463.0	CARBONDALE	HOUCHIN CREEK	COAL	-	950.0	

MAPID: 18500118000C VERSION: 3

PROJECT: CONTROL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.838081 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.449256 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2348.0 LOG TYPE: Survey Sample Study

SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 18501972000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 990' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.849432 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.445642 DATE COLLECTED: 8 / 31 / 1949

SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 1785.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
334.0	BOND	WITT	COAL	1.0	150.0
272.0	BOND	REEL	LIMESTONE	3.0	212.0
264.0	BOND	MT. CARMEL	SANDSTONE	134.0	220.0
74.0	PATOKA	MACOUPIN	LIMESTONE	1.0	410.0
-16.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	500.0
-227.0	SHELBURN	DANVILLE	COAL	3.3	711.0
-256.0	CARBONDALE	HERRIN	COAL	4.0	740.0
-324.0	CARBONDALE	BRIAR HILL	COAL	1.0	808.0
-356.0	CARBONDALE	SPRINGFIELD	COAL	6.0	840.0
-436.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	920.0
-504.0	CARBONDALE	COLCHESTER	COAL	-	988.0
-578.0	CARBONDALE	DAVIS	COAL	3.8	1062.0
-609.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1093.0

MAPID: 18501972000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 990' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.849432 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.445642 DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 1785.0 LOG TYPE: Electric Log

SOURCE: JOHNSON RUSSELL P WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-226.0	CARBONDALE	DANVILLE	COAL	-	710.0
-244.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	728.0
-256.0	CARBONDALE	HERRIN	COAL	4.0	740.0
-289.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	21.0	773.0
-322.0	CARBONDALE	BRIAR HILL	COAL	-	806.0
-325.0	CARBONDALE	CANTON	SILTSTONE	6.0	809.0
-356.0	CARBONDALE	SPRINGFIELD	COAL	6.0	840.0
-366.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	20.0	850.0
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	916.0

MAPID: 18504644001M VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: NE NW NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.851816 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.451113 DATE COLLECTED: 10 / 15 / 1942
 SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 22.5 LOG TYPE:
 SOURCE: WELL TYPE: Mine Shaft
 COMMENT: MINE NOTES ISGS FOR THE BECK MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0	MATTOON	FRIENDSVILLE	COAL	2.5	20.0	

MAPID: 18505923000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: NW SE SW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.849274 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.440186 DATE COLLECTED: 8 / 5 / 1976
 SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 330.0 LOG TYPE: Drillers Log
 SOURCE: GEOLOGICAL AND WATER SURVEY 50643 WELL TYPE: Water Well
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			UNCONSOLIDATED	10.0	0.0	
470.0	MATTOON		SANDSTONE	8.0	10.0	
462.0	MATTOON		GRAY SHALE	3.0	18.0	
459.0	MATTOON		SANDY SHALE	10.0	21.0	
449.0	MATTOON		DARK SHALE	14.0	31.0	
435.0	MATTOON		GRAY SHALE	15.0	45.0	
420.0	MATTOON		DARK SHALE	5.0	60.0	
415.0	MATTOON		SANDY SHALE	17.0	65.0	
398.0	MATTOON	FRIENDSVILLE	COAL	1.0	82.0	DO NOT USE FOR RESOURCE CALCULATIONS
397.0	BOND		LIMESTONE	7.0	83.0	
390.0	BOND		DARK SHALE	10.0	90.0	
380.0	BOND		SANDY SHALE	40.0	100.0	
340.0	BOND		DARK SHALE	16.0	140.0	
324.0	BOND		LIMESTONE	5.0	156.0	
319.0	BOND		GRAY SHALE	22.0	161.0	
297.0	BOND		DARK SHALE	17.0	183.0	
280.0	BOND	FLANNIGAN	COAL	2.0	200.0	DO NOT USE FOR RESOURCE CALCULATIONS
278.0	BOND		LIMESTONE	5.0	202.0	
273.0	BOND	MT. CARMEL	SANDSTONE	81.0	207.0	
192.0	BOND	MT. CARMEL	SANDSTONE	42.0	288.0	

MAPID: 185238A0004F

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 10

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.851816

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.451113

DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 28.5

LOG TYPE:

SOURCE:

WELL TYPE: Mine Shaft

COMMENT: BECK MINE FROM FIELD NOTES (SCHOPF)

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
424.0	MATTOON	FRIENDSVILLE	COAL	2.5	26.0	

MAPID: 18527590000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854007 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.447477 DATE COLLECTED: 8 / 4 / 1986
 SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 315.0 LOG TYPE: Drillers Log
 SOURCE: GEOLOGICAL AND WATER SURVEY 125726 WELL TYPE: Water Well
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	14.0	0.0	
466.0	MATTOON		SANDSTONE	2.0	14.0	
464.0	MATTOON		BROWN SHALE	4.0	16.0	
460.0	MATTOON		DARK SHALE	8.0	20.0	
452.0	MATTOON		GRAY SHALE	8.0	28.0	
444.0	MATTOON	FRIENDSVILLE	COAL	3.0	36.0	DO NOT USE FOR RESOURCE CALCULATIONS
441.0	BOND		GRAY SHALE	4.0	39.0	
437.0	BOND		SANDY SHALE	5.0	43.0	
432.0	BOND		GRAY SHALE	3.0	48.0	
429.0	BOND		SANDSTONE	28.0	51.0	
401.0	BOND		COAL	3.0	79.0	DO NOT USE FOR RESOURCE CALCULATIONS
398.0	BOND		LIMESTONE	4.0	82.0	
394.0	BOND		COAL	1.0	86.0	DO NOT USE FOR RESOURCE CALCULATIONS
393.0	BOND		DARK SHALE	10.0	87.0	
383.0	BOND		COAL	1.0	97.0	DO NOT USE FOR RESOURCE CALCULATIONS
382.0	BOND		GRAY SHALE	10.0	98.0	
372.0	BOND		SANDSTONE	42.0	108.0	
330.0	BOND		DARK SHALE	4.0	150.0	
326.0	BOND		LIMESTONE	2.0	154.0	
324.0	BOND		SANDSTONE	29.0	156.0	
295.0	BOND		DARK SHALE	23.0	185.0	
272.0	BOND	FLANNIGAN	COAL	2.0	208.0	DO NOT USE FOR RESOURCE CALCULATIONS
270.0	BOND		LIMESTONE	2.0	210.0	
268.0	BOND		SANDY SHALE	8.0	212.0	
260.0	BOND	MT. CARMEL	SANDSTONE	50.0	220.0	
210.0	BOND	MT. CARMEL	SANDSTONE	45.0	270.0	

MAPID: 18590097000C VERSION: 1 PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: 2000' S line, 770' E line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.839508 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.445436 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.7 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 2327 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
466.7	PLEISTOCENE		UNCONSOLIDATED	17.0	0.0
449.7	MATTOON		SANDY SHALE	23.5	17.0
426.2	MATTOON	MCCLEARY'S BLUFF	COAL	1.5	40.5
424.7	MATTOON		SANDY SHALE	36.5	42.0
388.2	MATTOON	FRIENDSVILLE	COAL	3.5	78.5
384.7	BOND		DARK SHALE	3.0	82.0
381.7	BOND		SANDY SHALE	25.0	85.0

MAPID: 18590098000C VERSION: 1 PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 10 QUARTERS/FOOTAGES: 860' S line, 1140' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.841725 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.439763 DATE COLLECTED:

SURFACE ELEVATION (FT.): 463.9 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 1859 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
463.9	PLEISTOCENE		CLAY	40.0	0.0
423.9	MATTOON		SHALE	20.0	40.0
403.9	MATTOON		SHALY SANDSTONE	15.9	60.0
388.0	MATTOON	FRIENDSVILLE	COAL/SANDSTONE	3.7	75.9
384.3	BOND		SHALY SANDSTONE	25.4	79.6

MAPID: 18500258000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835768 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.449248 DATE COLLECTED: 8 / 0 / 1943

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 1755.0 LOG TYPE: Drillers Log

SOURCE: SINCLAIR WYOMING OIL 2 WELL TYPE: Dry Hole

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
464.0			UNKNOWN	328.0	0.0	LOG SAYS 'SAND, COARSE, SURF, AND GRAVEL
136.0	PATOKA		SANDY SHALE	155.0	328.0	
-19.0	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	483.0	
-28.0	SHELBURN		GRAY SHALE	67.0	492.0	
-95.0	SHELBURN		GRAY SILTSTONE	9.0	559.0	
-104.0	SHELBURN		BLACK SHALE	0.5	568.0	
-104.5	SHELBURN		COAL	0.5	568.5	DO NOT USE FOR RESOURCE CALCULATIONS
-105.0	SHELBURN		UNDERCLAY	2.0	569.0	
-107.0	SHELBURN		GRAY SHALE	10.0	571.0	
-117.0	SHELBURN		GRAY SHALE	5.0	581.0	
-122.0	SHELBURN		SANDSTONE	2.0	586.0	
-124.0	SHELBURN		GRAY SILTSTONE	8.0	588.0	
-132.0	SHELBURN		GRAY SILTSTONE	3.0	596.0	
-135.0	SHELBURN		GRAY SHALE	11.0	599.0	
-146.0	SHELBURN		GRAY SHALE	25.0	610.0	
-171.0	SHELBURN		DARK GRAY SHALE	2.0	635.0	
-173.0	SHELBURN		UNDERCLAY	2.0	637.0	
-175.0	SHELBURN		DARK GRAY SHALE	6.0	639.0	
-181.0	SHELBURN		GRAY SHALE	7.0	645.0	
-188.0	SHELBURN		GRAY SILTSTONE	24.0	652.0	
-212.0	SHELBURN		GRAY SHALE	6.0	676.0	
-218.0	SHELBURN		GRAY SILTSTONE	13.0	682.0	
-231.0	SHELBURN		GRAY SILTSTONE	5.0	695.0	
-236.0	SHELBURN	DANVILLE	GRAY SHALE	4.0	700.0	
-240.0	SHELBURN		GRAY SHALE	24.0	704.0	
-264.0	SHELBURN		BLACK SHALE	0.5	728.0	
-264.5	SHELBURN		COAL	2.0	728.5	DO NOT USE FOR RESOURCE CALCULATIONS
-266.5	SHELBURN		UNDERCLAY	1.5	730.5	
-268.0	SHELBURN		GRAY SHALE	3.0	732.0	
-271.0	SHELBURN		LIMESTONE	3.0	735.0	
-274.0	SHELBURN		SANDSTONE	10.0	738.0	
-284.0	SHELBURN		DARK GRAY SHALE	2.0	748.0	
-286.0	SHELBURN		LIMESTONE	2.0	750.0	
-288.0	SHELBURN	BRERETON	SHALE	5.0	752.0	
-293.0	SHELBURN		LIMESTONE	2.0	757.0	
-295.0	CARBONDALE		SHALE	3.0	759.0	
-298.0	CARBONDALE	HERRIN	COAL	4.0	762.0	DO NOT USE FOR RESOURCE CALCULATIONS
-302.0	CARBONDALE		UNDERCLAY	4.0	766.0	
-306.0	CARBONDALE		GRAY SHALE	11.0	770.0	

-317.0	CARBONDALE		SANDSTONE	5.0	781.0	
-322.0	CARBONDALE		GRAY SILTSTONE	5.0	786.0	
-327.0	CARBONDALE		GRAY SHALE	12.0	791.0	
-339.0	CARBONDALE		DARK GRAY SHALE	9.0	803.0	
-348.0	CARBONDALE		BLACK SHALE	1.0	812.0	
-349.0	CARBONDALE	BRIAR HILL	COAL	2.0	813.0	DO NOT USE FOR RESOURCE CALCULATIONS
-351.0	CARBONDALE		GRAY SILTSTONE	5.0	815.0	
-356.0	CARBONDALE		GRAY SHALE	6.0	820.0	
-362.0	CARBONDALE		DARK GRAY SHALE	2.0	826.0	
-364.0	CARBONDALE		LIMESTONE	4.0	828.0	
-368.0	CARBONDALE		DARK GRAY SHALE	8.0	832.0	
-376.0	CARBONDALE		GRAY SHALE	4.0	840.0	
-380.0	CARBONDALE		GRAY SHALE	4.0	844.0	
-384.0	CARBONDALE		BLACK SHALE	2.5	848.0	
-386.5	CARBONDALE	SPRINGFIELD	COAL	3.5	850.5	DO NOT USE FOR RESOURCE CALCULATIONS
-390.0	CARBONDALE		UNDERCLAY	2.0	854.0	
-392.0	CARBONDALE		GRAY SHALE	6.0	856.0	
-398.0	CARBONDALE		SANDSTONE	13.0	862.0	
-411.0	CARBONDALE		GRAY SHALE	4.0	875.0	
-415.0	CARBONDALE		GRAY SHALE	11.0	879.0	
-426.0	CARBONDALE		GRAY SHALE	6.0	890.0	
-432.0	CARBONDALE		GRAY SHALE	16.0	896.0	
-448.0	CARBONDALE		LIMESTONE	2.0	912.0	
-450.0	CARBONDALE		BLACK SHALE	1.0	914.0	BK SH W/ CO STREAK
-451.0	CARBONDALE		LIMESTONE	1.0	915.0	
-452.0	CARBONDALE		BLACK SHALE	1.0	916.0	
-453.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	917.0	DO NOT USE FOR RESOURCE CALCULATIONS
-455.0	CARBONDALE		UNDERCLAY	3.0	919.0	
-458.0	CARBONDALE		GRAY SHALE	4.0	922.0	
-462.0	CARBONDALE		SANDSTONE	8.0	926.0	
-470.0	CARBONDALE		GRAY SHALE	2.0	934.0	
-472.0	CARBONDALE		BLACK SHALE	1.0	936.0	
-473.0	CARBONDALE	SURVANT	COAL	1.0	937.0	DO NOT USE FOR RESOURCE CALCULATIONS
-474.0	CARBONDALE		GRAY SHALE	4.0	938.0	
-478.0	CARBONDALE		SANDSTONE	8.0	942.0	
-486.0	CARBONDALE		GRAY SHALE	4.0	950.0	
-490.0	CARBONDALE		GRAY SHALE	4.0	954.0	
-494.0	CARBONDALE		GRAY SHALE	18.0	958.0	
-512.0	CARBONDALE		DARK GRAY SHALE	13.0	976.0	
-525.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	989.0	
-527.0	CARBONDALE	COLCHESTER	COAL	1.0	991.0	DO NOT USE FOR RESOURCE CALCULATIONS
-528.0	CARBONDALE		UNDERCLAY	1.0	992.0	
-529.0	CARBONDALE		SANDSTONE	6.0	993.0	
-535.0	CARBONDALE		GRAY SHALE	3.0	999.0	
-538.0	CARBONDALE		SANDSTONE	4.0	1002.0	
-542.0	CARBONDALE		LIMESTONE	2.0	1006.0	
-544.0	CARBONDALE		DARK GRAY SHALE	1.0	1008.0	

-545.0	CARBONDALE		UNDERCLAY	1.0	1009.0	
-546.0	CARBONDALE		GRAY SHALE	7.0	1010.0	
-553.0	CARBONDALE		DARK GRAY SHALE	18.0	1017.0	
-571.0	CARBONDALE		BLACK SHALE	0.5	1035.0	
-571.5	CARBONDALE	DAVIS	COAL	0.5	1035.5	DO NOT USE FOR RESOURCE CALCULATIONS
-572.0			UNDERCLAY	1.5	1036.0	
-573.5			GRAY SHALE	2.5	1037.5	
-576.0			DARK GRAY SHALE	8.0	1040.0	
-584.0			LIMESTONE	4.0	1048.0	
-588.0			GRAY SHALE	2.0	1052.0	
-590.0			GRAY SHALE	2.0	1054.0	
-592.0			DARK GRAY SHALE	10.0	1056.0	
-602.0			BLACK SHALE	3.0	1066.0	
-605.0			COAL	1.0	1069.0	DO NOT USE FOR RESOURCE CALCULATIONS
-606.0			SANDSTONE	8.0	1070.0	
-614.0			GRAY SHALE	6.0	1078.0	
-620.0			SANDSTONE	8.0	1084.0	
-628.0			SANDSTONE	18.0	1092.0	
-646.0			GRAY SHALE	4.0	1110.0	
-650.0			BLACK SHALE	0.7	1114.0	
-650.7			COAL	0.7	1114.7	DO NOT USE FOR RESOURCE CALCULATIONS
-651.3			GRAY SHALE	5.7	1115.3	
-657.0			SANDSTONE	11.0	1121.0	
-668.0			DARK GRAY SHALE	5.0	1132.0	
-673.0			BLACK SHALE	1.0	1137.0	BK SH W/ COAL
-674.0			GRAY SHALE	23.0	1138.0	
-697.0			GRAY SHALE	4.0	1161.0	
-701.0			LIMESTONE	2.0	1165.0	
-703.0			SILTSTONE	9.0	1167.0	
-712.0			SANDSTONE	4.0	1176.0	
-716.0			GRAY SHALE	3.0	1180.0	
-719.0			BLACK SHALE	1.0	1183.0	BK SH W/ CO
-720.0			UNDERCLAY	1.0	1184.0	
-721.0			GRAY SHALE	4.0	1185.0	
-725.0			DARK GRAY SHALE	19.0	1189.0	
-744.0			GRAY SHALE	8.0	1208.0	
-752.0			COAL	0.5	1216.0	DO NOT USE FOR RESOURCE CALCULATIONS
-752.5			GRAY SHALE	24.5	1216.5	
-777.0			GRAY SHALE	17.0	1241.0	
-794.0			GRAY SHALE	21.0	1258.0	
-815.0			LIMESTONE	1.0	1279.0	
-816.0			SANDSTONE	16.0	1280.0	
-832.0			SANDSTONE	14.0	1296.0	
-846.0			SANDSTONE	12.0	1310.0	
-858.0			LIMESTONE	3.0	1322.0	
-861.0			GRAY SHALE	5.0	1325.0	
-866.0			SANDSTONE	10.0	1330.0	

-876.0	DARK GRAY SHALE	11.0	1340.0	
-887.0	LIMESTONE	2.0	1351.0	
-889.0	SANDSTONE	8.0	1353.0	
-897.0	SANDSTONE	15.0	1361.0	
-912.0	UNCLASSIFIED	6.0	1376.0	NO SAMPLE
-918.0	GRAY SHALE	13.0	1382.0	
-931.0	UNCLASSIFIED	5.0	1395.0	NO SAMPLE
-936.0	SHALE	1.0	1400.0	
-937.0	BLACK SHALE	1.0	1401.0	
-938.0	GRAY SHALE	13.0	1402.0	
-951.0	GRAY SILTSTONE	5.0	1415.0	
-956.0	SANDSTONE	16.0	1420.0	
-972.0	DARK GRAY SHALE	12.0	1436.0	
-984.0	BLACK SHALE	1.0	1448.0	
-985.0	COAL	1.0	1449.0	DO NOT USE FOR RESOURCE CALCULATIONS
-986.0	UNDERCLAY	1.0	1450.0	
-987.0	GRAY SHALE	3.0	1451.0	
-990.0	SILTSTONE	6.0	1454.0	
-996.0	SANDSTONE	6.0	1460.0	
-1002.0	SANDSTONE	5.0	1466.0	
-1007.0	GRAY SHALE	3.0	1471.0	
-1010.0	SANDSTONE	1.0	1474.0	
-1011.0	SHALE	7.0	1475.0	
-1018.0	GRAY SHALE	4.0	1482.0	
-1022.0	GRAY SHALE	7.0	1486.0	
-1029.0	DARK GRAY SHALE	2.0	1493.0	
-1031.0	SANDSTONE	10.0	1495.0	
-1041.0	SANDSTONE	13.0	1505.0	
-1054.0	DARK GRAY SHALE	11.0	1518.0	
-1065.0	GRAY SHALE	7.0	1529.0	
-1072.0	GRAY SHALE	4.0	1536.0	
-1076.0	GRAY SHALE	49.0	1540.0	
-1125.0	BLACK SHALE	1.0	1589.0	
-1126.0	SANDSTONE	20.0	1590.0	
-1146.0	GRAY SHALE	6.0	1610.0	
-1152.0	DARK GRAY SHALE	7.0	1616.0	
-1159.0	GRAY SHALE	6.5	1623.0	
-1165.5	COAL	0.5	1629.5	DO NOT USE FOR RESOURCE CALCULATIONS
-1166.0	GRAY SHALE	29.0	1630.0	
-1195.0	DARK GRAY SHALE	23.0	1659.0	
-1218.0	GRAY SHALE	24.0	1682.0	
-1242.0	GRAY SILTSTONE	7.0	1706.0	
-1249.0	GRAY SHALE	8.0	1713.0	
-1257.0	GRAY SHALE	6.0	1721.0	
-1263.0	GRAY SHALE	15.0	1727.0	
-1278.0	UNCLASSIFIED	4.0	1742.0	NO SAMPLE
-1282.0	GRAY SHALE	9.0	1746.0	

MAPID: 18500258000C

VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 11

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

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.835768

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.449248

DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0

LOGGED (FT.): 2486.0

LOG TYPE: Electric Log

SOURCE: SKILES OIL CORP

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-294.0	CARBONDALE	HERRIN	COAL	5.0	758.0	
-341.0	CARBONDALE	BRIAR HILL	COAL	-	805.0	
-376.0	CARBONDALE	SPRINGFIELD	COAL	8.0	840.0	
-444.0	CARBONDALE	HOUCHIN CREEK	COAL	-	908.0	

MAPID: 18500258000C

VERSION: 4

PROJECT: CONTROL

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 11

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

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.835768

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 38.449248

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2486.0

LOG TYPE: Survey Sample Study

SOURCE: SKILES OIL CORP

WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 18501981000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 11 QUARTERS/FOOTAGES: 990' N line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828119 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.441939 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2280.0 LOG TYPE: Electric Log

SOURCE: WISER OIL CO., THE WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-235.0	CARBONDALE	DANVILLE	COAL	-	686.0
-255.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	706.0
-267.0	CARBONDALE	HERRIN	COAL	3.0	718.0
-293.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	36.0	744.0
-343.0	CARBONDALE	BRIAR HILL	COAL	-	794.0
-382.0	CARBONDALE	SPRINGFIELD	COAL	7.0	833.0
-401.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	8.0	852.0
-451.0	CARBONDALE	HOUCHIN CREEK	COAL	-	902.0

MAPID: 18501991000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 530' E line of NE NE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828856 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.443763 DATE COLLECTED: 10 / 31 / 1953

SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 2279.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
272.0	BOND	REEL	LIMESTONE	2.5	184.0
266.0	BOND	MT. CARMEL	SANDSTONE	167.0	190.0
66.0	PATOKA	MACOUPIN	LIMESTONE	1.0	390.0
-19.0	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	475.0
-244.0	SHELBURN	DANVILLE	COAL	3.0	700.0
-276.0	CARBONDALE	HERRIN	COAL	5.0	732.0
-349.0	CARBONDALE	BRIAR HILL	COAL	1.0	805.0
-384.0	CARBONDALE	SPRINGFIELD	COAL	8.0	840.0
-454.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	910.0
-534.0	CARBONDALE	COLCHESTER	COAL	-	990.0
-544.0	CARBONDALE	DEKOVEN	COAL	1.0	1000.0
-572.0	CARBONDALE	DAVIS	COAL	6.0	1028.0
-604.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1060.0

MAPID: 18505327000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.833485 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.438128 DATE COLLECTED: 7 / 15 / 1957

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 28 FR WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE SW CORNER OF SEC 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	25.0	0.0	
425.0			ARGILACEOUS SHALE	6.8	25.0	
418.2			COAL	1.0	31.8	
417.2			CLAYSTONE	1.3	32.8	GRAY
415.8			COAL	0.6	34.2	
415.2			CLAYSTONE	2.3	34.8	GRAY
413.0			CLAYSTONE	8.0	37.0	GRAY
405.0			SANDSTONE	24.7	45.0	WITH SHALEY STREAKS; GRAY
380.3			COAL	1.3	69.7	
379.0			SHALE	3.1	71.0	DK GRAY
375.9			FOSSILIFEROUS LIMESTONE	1.2	74.1	GRAY
374.7			LIMESTONE	1.7	75.3	GRAY
373.1			SANDY SHALE	3.1	76.9	

MAPID: 18527452000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 11

QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.823337

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.443744

DATE COLLECTED: 11 / 22 / 1982

SURFACE ELEVATION (FT.): 485.0

LOGGED (FT.): 291.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 105688

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			CLAY	20.0	0.0	
465.0	MATTOON		DARK SHALE	10.0	20.0	
455.0	MATTOON		COAL	3.0	30.0	DO NOT USE FOR RESOURCE CALCULATIONS
452.0	MATTOON		GRAY SHALE	33.0	33.0	
419.0	MATTOON		COAL	4.0	66.0	DO NOT USE FOR RESOURCE CALCULATIONS
415.0	MATTOON		DARK SHALE	6.0	70.0	
409.0	MATTOON		LIMESTONE	3.0	76.0	
406.0	MATTOON		GRAY SHALE	1.0	79.0	
405.0	MATTOON	FRIENDSVILLE	COAL	8.0	80.0	DO NOT USE FOR RESOURCE CALCULATIONS
397.0	BOND		DARK SHALE	1.0	88.0	
396.0	BOND		GRAY SHALE	6.0	89.0	
390.0	BOND		SANDSTONE	25.0	95.0	
365.0	BOND		GRAY SHALE	30.0	120.0	
335.0	BOND		DARK SHALE	46.0	150.0	
289.0	BOND	REEL	LIMESTONE	2.0	196.0	
287.0	BOND		GRAY SHALE	22.0	198.0	
265.0	BOND	MT. CARMEL	SANDSTONE	40.0	220.0	
225.0	BOND	MT. CARMEL	SANDSTONE	31.0	260.0	

MAPID: 18527453000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 11 QUARTERS/FOOTAGES: 50' N line, 150' W line of SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.826593 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.449999 DATE COLLECTED: 7 / 29 / 1983

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 108497 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
495.0			SANDY CLAY	20.0	0.0	
475.0	MATTOON		SHALE	50.0	20.0	
425.0	MATTOON	FRIENDSVILLE	COAL	1.0	70.0	DO NOT USE FOR RESOURCE CALCULATIONS
424.0	BOND		SHALE	24.0	71.0	
400.0	BOND		SANDSTONE	45.0	95.0	
355.0	BOND		DARK SHALE	15.0	140.0	
340.0	BOND		SANDSTONE	15.0	155.0	
325.0	BOND		SHALE	33.0	170.0	
292.0	BOND	FLANNIGAN	COAL	2.0	203.0	DO NOT USE FOR RESOURCE CALCULATIONS
290.0	BOND		LIMESTONE	2.0	205.0	
288.0	BOND		LIMESTONE	13.0	207.0	
275.0	BOND	MT. CARMEL	SANDSTONE	80.0	220.0	

MAPID: 18527454000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 11 QUARTERS/FOOTAGES: NE NW SE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823337 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.443744 DATE COLLECTED: 10 / 26 / 1984
 SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log
 SOURCE: GEOLOGICAL AND WATER SURVEY 115596 WELL TYPE: Water Well
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			CLAY	20.0	0.0	
465.0	MATTOON		GRAY SHALE	4.0	20.0	
461.0	MATTOON	KEENSBURG	COAL	3.0	24.0	DO NOT USE FOR RESOURCE CALCULATIONS
458.0	MATTOON		GRAY SHALE	32.0	27.0	
426.0	MATTOON	FRIENDSVILLE	COAL	4.0	59.0	DO NOT USE FOR RESOURCE CALCULATIONS
422.0	BOND		GRAY SHALE	2.0	63.0	
420.0	BOND		LIMESTONE	6.0	65.0	
414.0	BOND		SANDSTONE	5.0	71.0	
409.0	BOND		COAL	1.0	76.0	DO NOT USE FOR RESOURCE CALCULATIONS
408.0	BOND		GRAY SHALE	16.0	77.0	
392.0	BOND		SANDSTONE	42.0	93.0	
350.0	BOND		GRAY SHALE	17.0	135.0	
333.0	BOND		DARK SHALE	39.0	152.0	
294.0	BOND	REEL	LIMESTONE	1.0	191.0	
293.0	BOND		GRAY SHALE	38.0	192.0	
255.0	BOND		SANDY SHALE	10.0	230.0	
245.0	BOND	MT. CARMEL	SANDSTONE	60.0	240.0	

MAPID: 18501701000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806444 GEOLOGIST: BRISTOL
 CONFIDENTIAL: N LATITUDE: 38.450956 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 2454.0 LOG TYPE:
 SOURCE: OIL MANAGEMENT, INC. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
57.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	425.0	
-174.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	656.0	
-396.0	CARBONDALE	COLCHESTER	COAL	-	878.0	
-			LIMESTONE	-		
-1704.0		BASE BARLOW	LIMESTONE	-	2186.0	
-1972.0	RENAULT	BASE RENAULT	LIMESTONE	-	2454.0	

MAPID: 18501701000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806444 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.450956 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 2538.0 LOG TYPE: Electric Log

SOURCE: OIL MANAGEMENT, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-142.0	CARBONDALE	DANVILLE	COAL	-	624.0	
-263.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	745.0	
-174.0	CARBONDALE	HERRIN	COAL	4.0	656.0	
-180.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	36.0	662.0	
-228.0	CARBONDALE	BRIAR HILL	COAL	-	710.0	
-234.0	CARBONDALE	CANTON	SANDSTONE/SILTSTONE	7.0	716.0	
-260.0	CARBONDALE	SPRINGFIELD	COAL	4.0	742.0	
-328.0	CARBONDALE	HOUCHIN CREEK	COAL	-	810.0	

MAPID: 18501994000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816047 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.440079 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 466.0 LOG TYPE:

SOURCE: GOPHER DRILLING CORP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
14.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	466.0	

MAPID: 18502393000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.808719 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.441913 DATE COLLECTED: 7 / 13 / 1956

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 2632.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
320.0	BOND	REEL	LIMESTONE	1.0	150.0
316.0	BOND	MT. CARMEL	SANDSTONE	166.0	154.0
128.0	PATOKA	MACOUPIN	LIMESTONE	1.0	342.0
42.0	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	428.0
-170.0	SHELBURN	DANVILLE	COAL	3.0	640.0
-198.0	CARBONDALE	HERRIN	COAL	3.5	668.0
-267.0	CARBONDALE	BRIAR HILL	COAL	1.8	737.0
-287.0	CARBONDALE	SPRINGFIELD	COAL	3.0	757.0
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	865.0
-439.0	CARBONDALE	SURVANT	COAL	-	909.0
-489.0	CARBONDALE	COLCHESTER	COAL	-	959.0
-502.0	CARBONDALE	DEKOVEN	COAL	1.0	972.0
-527.0	CARBONDALE	DAVIS	COAL	5.0	997.0
-560.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1030.0

MAPID: 18502393000C VERSION: 2 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.808719 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.441913 DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 2464.0 LOG TYPE:

SOURCE: DAVIS ALVA C PETRO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
42.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	428.0
-197.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	667.0
-1317.0			LIMESTONE	-	1787.0
-1706.0		BASE BARLOW	LIMESTONE	-	2176.0
-1994.0	RENAULT	BASE RENAULT	LIMESTONE	-	2464.0

MAPID: 18502992000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.803886 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.4401 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 1745.0 **LOG TYPE:**
SOURCE: SOUTHERN TRIANGLE OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
204.0	BOND	CARTHAGE	LIMESTONE	-	260.0
49.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	415.0
-	CARBONDALE	HERRIN	UNCLASSIFIED	-	
-1281.0			LIMESTONE	-	1745.0

MAPID: 18505629000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.799064 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.44913 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 2404.0 **LOG TYPE:**
SOURCE: WHITMER, E.L. INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1273.0			LIMESTONE	-	1718.0
-1681.0		BASE BARLOW	LIMESTONE	-	2126.0
-1959.0	RENAULT	BASE RENAULT	LIMESTONE	-	2404.0

MAPID: 18526051000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 702' W line of SW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.814728 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.438259 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 2228.0 **LOG TYPE:**
SOURCE: SPARTAN PETROLEUM CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
28.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	462.0
-213.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	703.0
-1302.0			LIMESTONE	-	1792.0
-1738.0		BASE BARLOW	LIMESTONE	-	2228.0

MAPID: 18526080000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 400' S line, 400' E line of SW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.804145 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.445728 DATE COLLECTED:

SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 2443.0 LOG TYPE:

SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	473.0
-183.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	655.0
-396.0	CARBONDALE	COLCHESTER	COAL	-	868.0
-1274.0			LIMESTONE	-	1746.0
-1705.0		BASE BARLOW	LIMESTONE	-	2177.0
-1971.0	RENAULT	BASE RENAULT	LIMESTONE	-	2443.0

MAPID: 18526095000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 690' W line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.805148 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.443713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 2444.0 LOG TYPE:

SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
218.0	BOND	CARTHAGE	LIMESTONE	-	260.0
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	427.0
-	CARBONDALE	HERRIN	UNCLASSIFIED	-	
-1258.0			LIMESTONE	-	1736.0
-1709.0		BASE BARLOW	LIMESTONE	-	2187.0
-1966.0	RENAULT	BASE RENAULT	LIMESTONE	-	2444.0

MAPID: 18526102000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 990' N line, 330' W line of NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.801593 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.449104 DATE COLLECTED:
SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 2426.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	402.0
-188.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	641.0
-1297.0			LIMESTONE	-	1750.0
-1693.0		BASE BARLOW	LIMESTONE	-	2146.0
-1973.0	RENAULT	BASE RENAULT	LIMESTONE	-	2426.0

MAPID: 18526129000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 390' W line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806217 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.447335 DATE COLLECTED:
SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 2438.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	425.0
-182.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	655.0
-392.0	CARBONDALE	COLCHESTER	COAL	-	865.0
-1327.0			LIMESTONE	-	1800.0
-1699.0		BASE BARLOW	LIMESTONE	-	2172.0
-1965.0	RENAULT	BASE RENAULT	LIMESTONE	-	2438.0

MAPID: 18526149000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.801583 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.44553 DATE COLLECTED:

SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 2418.0 LOG TYPE:

SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
181.0	BOND	CARTHAGE	LIMESTONE	-	276.0	
52.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	405.0	
-	CARBONDALE	HERRIN	UNCLASSIFIED	-		
-420.0	CARBONDALE	COLCHESTER	COAL	-	877.0	
-1295.0			LIMESTONE	-	1752.0	
-1699.0		BASE BARLOW	LIMESTONE	-	2156.0	
-1961.0	RENAULT	BASE RENAULT	LIMESTONE	-	2418.0	

MAPID: 18527456000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 12 QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.813613 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.443724 DATE COLLECTED: 11 / 4 / 1981

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 285.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 101993 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			CLAY	16.0	0.0	
484.0	MATTOON	KEENSBURG	COAL	1.0	16.0	DO NOT USE FOR RESOURCE CALCULATIONS
483.0	MATTOON	KEENSBURG	GRAY SHALE	1.0	17.0	
482.0	MATTOON	KEENSBURG	COAL	1.0	18.0	DO NOT USE FOR RESOURCE CALCULATIONS
481.0	MATTOON		GRAY SHALE	34.0	19.0	
447.0	MATTOON	FRIENDSVILLE	COAL	2.0	53.0	DO NOT USE FOR RESOURCE CALCULATIONS
445.0	BOND		LIMESTONE	4.0	55.0	
441.0	BOND		GRAY SHALE	20.0	59.0	
421.0	BOND		LIMESTONE	26.0	79.0	
395.0	BOND		GRAY SHALE	40.0	105.0	
355.0	BOND		DARK SHALE	58.0	145.0	
297.0	BOND	REEL	LIMESTONE	5.0	203.0	
292.0	BOND		DARK SHALE	32.0	208.0	
260.0	BOND	MT. CARMEL	SANDSTONE	45.0	240.0	

MAPID: 18500177000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816025 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.424168 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 1787.0 LOG TYPE:

SOURCE: WASHBURN CLYDE WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	443.0
-230.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-1332.0			LIMESTONE	-	1787.0

MAPID: 18500974000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 1756' N line, 500' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.809162 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.432525 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2476.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
16.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	435.0
-223.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	674.0
-1294.0			LIMESTONE	-	1745.0
-1745.0		BASE BARLOW	LIMESTONE	-	2196.0
-2025.0	RENAULT	BASE RENAULT	LIMESTONE	-	2476.0

MAPID: 18500974000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 1756' N line, 500' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.809162 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.432525 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2568.0 LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-195.0	CARBONDALE	DANVILLE	COAL	-	646.0
-221.0	CARBONDALE	HERRIN	COAL	4.0	672.0
-237.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	42.0	688.0
-289.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-291.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	8.0	742.0
-315.0	CARBONDALE	SPRINGFIELD	COAL	4.0	766.0
-335.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	10.0	786.0
-425.0	CARBONDALE	HOUCHIN CREEK	COAL	-	876.0

MAPID: 18500974000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 1756' N line, 500' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.809162 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.432525 DATE COLLECTED: 10 / 14 / 1946

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2568.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
295.0	BOND	REEL	LIMESTONE	1.0	156.0
289.0	BOND	MT. CARMEL	SANDSTONE	96.0	162.0
16.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	435.0
-195.0	SHELBURN	DANVILLE	COAL	1.8	646.0
-222.0	CARBONDALE	HERRIN	COAL	3.5	673.0
-289.0	CARBONDALE	BRIAR HILL	COAL	1.0	740.0
-315.0	CARBONDALE	SPRINGFIELD	COAL	4.3	766.0
-427.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	878.0
-508.0	CARBONDALE	COLCHESTER	COAL	-	959.0
-524.0	CARBONDALE	DEKOVEN	COAL	2.5	975.0
-544.0	CARBONDALE	DAVIS	COAL	3.8	995.0
-574.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1025.0

MAPID: 18501995000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 990' S line, 1650' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.813238 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.425955 DATE COLLECTED:
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 2506.0 LOG TYPE:
SOURCE: HALBERT RALPH C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
6.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	454.0
-235.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	695.0
-1380.0			LIMESTONE	-	1840.0
-1784.0		BASE BARLOW	LIMESTONE	-	2244.0
-2046.0	RENAULT	BASE RENAULT	LIMESTONE	-	2506.0

MAPID: 18502788000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.805158 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.424939 DATE COLLECTED:
SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 2496.0 LOG TYPE:
SOURCE: GUILDE & JONES WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1788.0		BASE BARLOW	LIMESTONE	-	2220.0
-2064.0	RENAULT	BASE RENAULT	LIMESTONE	-	2496.0

MAPID: 18502890000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.813531 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.424137 DATE COLLECTED:
SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 2510.0 LOG TYPE:
SOURCE: HOUCHINS D J WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	446.0
-242.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	695.0
-1357.0			LIMESTONE	-	1810.0
-1780.0		BASE BARLOW	LIMESTONE	-	2233.0
-2057.0	RENAULT	BASE RENAULT	LIMESTONE	-	2510.0

MAPID: 18504645001M VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810111 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.431465 DATE COLLECTED: 10 / 0 / 1942
SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 45.5 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: ISGS MINE NOTES FOR CHAPMAN MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
422.0	MATTOON	FRIENDSVILLE	COAL	2.5	43.0	

MAPID: 18504646001M VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806123 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.429835 DATE COLLECTED: 10 / 0 / 1942
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 38.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: ISGS MINE NOTES FOR SIMONDS MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
417.0	MATTOON	FRIENDSVILLE	COAL	3.0	35.0	

MAPID: 18505325000C VERSION: 1 PROJECT: NCRDS92
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES:
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.807432 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.427019 DATE COLLECTED: 7 / 14 / 1957
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
SOURCE: HANNA COAL CO. 27FR WELL TYPE: Coal Test
COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
437.0			UNCONSOLIDATED	25.0	0.0	
412.0			FOSSILIFEROUS LIMESTONE	1.3	25.0	GRAY
410.7			LIMESTONE	1.9	26.3	GRAY
408.8			SANDY SHALE	2.9	28.2	
405.9			GRAY SHALE	3.8	31.1	
402.1			COAL	0.3	34.9	
401.7			GRAY SHALE	8.3	35.3	
393.4			COAL	0.1	43.6	
393.3			GRAY SHALE	1.3	43.7	

MAPID: 18505326000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.807432 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.427019 DATE COLLECTED: 7 / 14 / 1957

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 24.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 27FR-A WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE CENTER OF SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
437.0			UNCONSOLIDATED	17.0	0.0	
420.0			SHALY COAL	4.1	17.0	WITH PYRITE
415.9			CLAYSTONE	0.2	21.1	GRAY
415.7			COAL	0.3	21.3	
415.4			SANDY SHALE	2.4	21.6	

MAPID: 18505664000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.798905 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.423947 DATE COLLECTED:

SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2065.0 LOG TYPE:

SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil

COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1642.0		BASE BARLOW	LIMESTONE	-	2065.0	

MAPID: 18505755000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 918' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.804298 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.436483 DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 1739.0 LOG TYPE:

SOURCE: SOUTHERN TRIANGLE OIL CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	444.0	
-205.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0	
-1269.0			LIMESTONE	-	1739.0	

MAPID: 185238A0005F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810111 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.431465 DATE COLLECTED: 0 / 0 / 1942
SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 43.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: BOB CHAPMAN MINE FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.0	MATTOON	FRIENDSVILLE	COAL	3.0	40.0	

MAPID: 185238A0006F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806123 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.429835 DATE COLLECTED: 0 / 0 / 1942
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 33.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: SIMONDS MINE FROM MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
422.0	MATTOON	FRIENDSVILLE	COAL	3.0	30.0	

MAPID: 18525974000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.81606 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.425991 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 2506.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
18.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	460.0	
-224.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	702.0	
-1342.0			LIMESTONE	-	1820.0	
-1773.0		BASE BARLOW	LIMESTONE	-	2251.0	
-2028.0	RENAULT	BASE RENAULT	LIMESTONE	-	2506.0	

MAPID: 18526008000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 1680' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.813251 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.4296 DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 2500.0 LOG TYPE:

SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil

COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
15.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	458.0
-227.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	700.0
-1767.0		BASE BARLOW	LIMESTONE	-	2240.0
-2027.0	RENAULT	BASE RENAULT	LIMESTONE	-	2500.0

MAPID: 18526148000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.808653 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.424074 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 2510.0 LOG TYPE:

SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	444.0
-252.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	696.0
-1381.0			LIMESTONE	-	1825.0
-1782.0		BASE BARLOW	LIMESTONE	-	2226.0
-2066.0	RENAULT	BASE RENAULT	LIMESTONE	-	2510.0

MAPID: 18526628000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 13 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806123 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.429835 DATE COLLECTED: 9 / 7 / 1979
 SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 250.0 LOG TYPE: Drillers Log
 SOURCE: GEOLOGICAL AND WATER SURVEY 89531 WELL TYPE: Water Well
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			UNCONSOLIDATED	20.0	0.0	SOIL AND CLAY
435.0	MATTOON		DARK SHALE	10.0	20.0	
425.0	MATTOON	FRIENDSVILLE	COAL	6.0	30.0	DO NOT USE FOR RESOURCE CALCULATIONS
419.0	BOND		LIMESTONE	4.0	36.0	
415.0	BOND		DARK SHALE	18.0	40.0	
397.0	BOND		COAL	2.0	58.0	DO NOT USE FOR RESOURCE CALCULATIONS
395.0	BOND		DARK SHALE	8.0	60.0	
387.0	BOND		SANDY SHALE	32.0	68.0	
355.0	BOND		DARK SHALE	10.0	100.0	
345.0	BOND		SHALE	20.0	110.0	
325.0	BOND		DARK SHALE	36.0	130.0	
289.0	BOND	FLANNIGAN	COAL	2.0	166.0	DO NOT USE FOR RESOURCE CALCULATIONS
287.0	BOND		LIMESTONE	2.0	168.0	
285.0	BOND		DARK SHALE	40.0	170.0	
245.0	BOND	MT. CARMEL	SANDSTONE	20.0	210.0	
225.0	BOND	MT. CARMEL	SANDSTONE	20.0	230.0	

MAPID: 18500975000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.82562 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.431271 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 2265.0 LOG TYPE: Electric Log
 SOURCE: DEAN & MORTON WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-220.0	CARBONDALE	DANVILLE	COAL	-	656.0	
-250.0	CARBONDALE	HERRIN	COAL	4.0	686.0	
-262.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	52.0	698.0	
-320.0	CARBONDALE	BRIAR HILL	COAL	-	756.0	
-328.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	6.0	764.0	
-356.0	CARBONDALE	SPRINGFIELD	COAL	5.0	792.0	
-438.0	CARBONDALE	HOUCHIN CREEK	COAL	-	874.0	

MAPID: 18505306000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820792 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.431638 DATE COLLECTED: 7 / 29 / 1964

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 2593.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
290.0	BOND	REEL	LIMESTONE	1.0	155.0
285.0	BOND	MT. CARMEL	SANDSTONE	101.0	160.0
95.0	PATOKA	MACOUPIN	LIMESTONE	1.0	350.0
7.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.7	438.0
-205.0	SHELBURN	DANVILLE	COAL	2.8	650.0
-233.0	CARBONDALE	HERRIN	COAL	3.0	678.0
-300.0	CARBONDALE	BRIAR HILL	COAL	1.0	745.0
-325.0	CARBONDALE	SPRINGFIELD	COAL	4.0	770.0
-440.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	885.0
-468.0	CARBONDALE	SURVANT	COAL	3.0	913.0
-518.0	CARBONDALE	COLCHESTER	COAL	-	963.0
-533.0	CARBONDALE	DEKOVEN	COAL	0.8	978.0
-551.0	CARBONDALE	DAVIS	COAL	4.0	996.0
-583.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1028.0

MAPID: 185238A0007F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 14 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818422 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.425981 DATE COLLECTED: 0 / 0 / 1927

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 47.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: BLACK DIAMOND MINE-FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
417.0	MATTOON	FRIENDSVILLE	COAL	4.0	43.0

MAPID: 18527457000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 14

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.830461

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.427528

DATE COLLECTED: 4 / 24 / 1981

SURFACE ELEVATION (FT.): 425.0

LOGGED (FT.): 285.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 99393

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			CLAY	15.0	0.0	
410.0	MATTOON		SANDSTONE	6.0	15.0	
404.0	MATTOON		DARK SHALE	3.0	21.0	
401.0	MATTOON	KEENSBURG	COAL	2.0	24.0	DO NOT USE FOR RESOURCE CALCULATIONS
399.0	MATTOON	KEENSBURG	DARK SHALE	2.0	26.0	
397.0	MATTOON	KEENSBURG	COAL	2.0	28.0	DO NOT USE FOR RESOURCE CALCULATIONS
395.0	MATTOON		DARK SHALE	25.0	30.0	
370.0	MATTOON	FRIENDSVILLE	COAL	3.0	55.0	DO NOT USE FOR RESOURCE CALCULATIONS
367.0	BOND		DARK SHALE	3.0	58.0	
364.0	BOND		LIMESTONE	2.0	61.0	
362.0	BOND		DARK SHALE	2.0	63.0	
360.0	BOND		LIMESTONE	3.0	65.0	
357.0	BOND		DARK SHALE	165.0	68.0	
192.0	BOND	MT. CARMEL	SANDSTONE	52.0	233.0	

MAPID: 18527615000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 14 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818451 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.424159 DATE COLLECTED: 3 / 3 / 1987

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 255.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 129584 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	14.0	0.0	
436.0	MATTOON		COAL	2.0	14.0	DO NOT USE FOR RESOURCE CALCULATIONS
434.0	MATTOON		GRAY SHALE	28.0	16.0	
406.0	MATTOON	FRIENDSVILLE	COAL	4.0	44.0	DO NOT USE FOR RESOURCE CALCULATIONS
402.0	BOND		GRAY SHALE	3.0	48.0	
399.0	BOND		LIMESTONE	2.0	51.0	
397.0	BOND		SANDSTONE	17.0	53.0	
380.0	BOND		COAL	2.0	70.0	DO NOT USE FOR RESOURCE CALCULATIONS
378.0	BOND		GRAY SHALE	15.0	72.0	
363.0	BOND		SANDSTONE	33.0	87.0	
330.0	BOND		SANDY SHALE	30.0	120.0	
300.0	BOND		DARK SHALE	30.0	150.0	
270.0	BOND		SANDY SHALE	20.0	180.0	
250.0	BOND		GRAY SHALE	19.0	200.0	
231.0	BOND	REEL	LIMESTONE	1.0	219.0	
230.0	BOND	MT. CARMEL	SANDSTONE	35.0	220.0	

MAPID: 18502114000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.840018 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.431054 DATE COLLECTED: 8 / 28 / 1950

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 2635.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
313.0	BOND	WITT	COAL	1.0	142.0
250.0	BOND	REEL	LIMESTONE	1.8	205.0
241.0	BOND	MT. CARMEL	SANDSTONE	96.0	214.0
-37.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.7	492.0
-255.0	SHELBURN	DANVILLE	COAL	3.0	710.0
-287.0	CARBONDALE	HERRIN	COAL	3.8	742.0
-365.0	CARBONDALE	BRIAR HILL	COAL	1.5	820.0
-396.0	CARBONDALE	SPRINGFIELD	COAL	8.0	851.0
-476.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	931.0
-491.0	CARBONDALE	SURVANT	COAL	0.8	946.0
-550.0	CARBONDALE	COLCHESTER	COAL	-	1005.0
-565.0	CARBONDALE	DEKOVEN	COAL	1.8	1020.0
-577.0	CARBONDALE	LOWER DEKOVEN	COAL	2.0	1032.0
-583.0	CARBONDALE	DAVIS	COAL	5.8	1038.0
-614.0	TRADEWATER	CARRIER MILLS	COAL	-	1069.0

MAPID: 18502114000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.840018 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.431054 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 2635.0 LOG TYPE: Electric Log

SOURCE: HAYES&WOLF BROTHERS OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-253.0	CARBONDALE	DANVILLE	COAL	-	708.0
-273.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	728.0
-285.0	CARBONDALE	HERRIN	COAL	3.0	740.0
-307.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	50.0	762.0
-363.0	CARBONDALE	BRIAR HILL	COAL	-	818.0
-395.0	CARBONDALE	SPRINGFIELD	COAL	8.0	850.0
-407.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	8.0	862.0
-469.0	CARBONDALE	HOUCHIN CREEK	COAL	-	924.0

MAPID: 18527513000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 350' W line of SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.84007 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.42382 DATE COLLECTED: 7 / 19 / 1985

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 0.0 LOG TYPE: Nuclear Log

SOURCE: SMITH OPERATING CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
65.0	PATOKA	MACOUPIN	LIMESTONE	1.0	383.0
-23.0	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	471.0
-239.0	SHELBURN	DANVILLE	COAL	3.0	687.0
-271.0	CARBONDALE	HERRIN	COAL	3.5	719.0
-382.0	CARBONDALE	SPRINGFIELD	COAL	7.0	830.0
-472.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	920.0
-552.0	CARBONDALE	COLCHESTER	COAL	-	1000.0
-582.0	CARBONDALE	DAVIS	COAL	5.5	1030.0
-610.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	4.0	1058.0

MAPID: 18590094000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 15 QUARTERS/FOOTAGES: 2020' S line, 1650' E line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.842263 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.428513 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.9 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: VIGO COAL CO. 2399 WELL TYPE: Coal Test

COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
466.9	PLEISTOCENE		CLAY	33.0	0.0
433.9	MATTOON		SANDY SHALE	26.5	33.0
407.4	MATTOON	MCCLEARY'S BLUFF	COAL	1.5	59.5
405.9	MATTOON		SANDY SHALE	32.3	61.0
373.6	MATTOON	FRIENDSVILLE	COAL	3.3	93.3
370.3	BOND		DARK SHALE	2.4	96.6
367.9	BOND		SANDY SHALE	21.0	99.0

MAPID: 18590099000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 710' S line, 270' E line of NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.837358 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.432076 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 442.9 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: VIGO COAL CO. 1798 **WELL TYPE:** Coal Test
COMMENT: PERMIT 330 FRIENDSVILLE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
442.9	PLEISTOCENE		SOIL	18.0	0.0
424.9	MATTOON		SANDY SHALE	3.5	18.0
421.4	MATTOON	MCCLEARY'S BLUFF	COAL	1.0	21.5
420.4	MATTOON		SANDY SHALE	32.8	22.5
387.6	MATTOON	FRIENDSVILLE	COAL	3.2	55.3
384.4	BOND		DARK SHALE	3.1	58.5
381.3	BOND		SANDY SHALE	18.4	61.6

MAPID: 18501484000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.872954 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.429524 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 2608.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT & WILLIS, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-281.0	CARBONDALE	DANVILLE	COAL	-	724.0
-292.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	735.0
-310.0	CARBONDALE	HERRIN	COAL	4.0	753.0
-327.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	30.0	770.0
-383.0	CARBONDALE	BRIAR HILL	COAL	-	826.0
-423.0	CARBONDALE	SPRINGFIELD	COAL	7.0	866.0
-433.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE/SANDSTONE	8.0	876.0
-485.0	CARBONDALE	HOUCHIN CREEK	COAL	-	928.0

MAPID: 18504290000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.865898 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.433088 DATE COLLECTED: 1 / 28 / 1954

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2616.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
210.0	BOND	MT. CARMEL	SANDSTONE	160.0	220.0
46.0	PATOKA	MACOUPIN	LIMESTONE	1.8	384.0
-42.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	472.0
-254.0	SHELBURN	DANVILLE	COAL	3.3	684.0
-282.0	CARBONDALE	HERRIN	COAL	3.5	712.0
-358.0	CARBONDALE	BRIAR HILL	COAL	1.5	788.0
-389.0	CARBONDALE	SPRINGFIELD	COAL	8.0	819.0
-465.0	CARBONDALE	HOUCHIN CREEK	COAL	3.5	895.0
-526.0	CARBONDALE	COLCHESTER	COAL	-	956.0
-576.0	CARBONDALE	DAVIS	COAL	4.0	1006.0
-613.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1043.0

MAPID: 18527333000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.858903 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.433022 DATE COLLECTED: 9 / 13 / 1984

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 0.0 LOG TYPE: Nuclear Log

SOURCE: HOWARD ENERGY CORP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
62.0	PATOKA	MACOUPIN	LIMESTONE	1.0	382.0
-28.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.5	472.0
-241.0	SHELBURN	DANVILLE	COAL	3.0	685.0
-268.0	CARBONDALE	HERRIN	COAL	3.5	712.0
-356.0	CARBONDALE	BRIAR HILL	COAL	2.0	800.0
-387.0	CARBONDALE	SPRINGFIELD	COAL	8.0	831.0
-466.0	CARBONDALE	HOUCHIN CREEK	COAL	2.8	910.0
-496.0	CARBONDALE	SURVANT	COAL	2.3	940.0
-528.0	CARBONDALE	COLCHESTER	COAL	-	972.0
-576.0	CARBONDALE	DAVIS	COAL	5.0	1020.0
-605.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	4.0	1049.0

MAPID: 18502005000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW
QUADRANGLE: BONE GAP LONGITUDE: -87.891559 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.431527 DATE COLLECTED: 5 / 12 / 1950
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2141.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
293.0	BOND	WITT	COAL	1.0	136.0
231.0	BOND	REEL	LIMESTONE	2.0	198.0
166.0	BOND	CARTHAGE	LIMESTONE	13.0	263.0
37.0	PATOKA	MACOUPIN	LIMESTONE	1.0	392.0
-64.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	493.0
-265.0	SHELBURN	DANVILLE	COAL	2.6	694.0
-294.0	CARBONDALE	HERRIN	COAL	3.8	723.0
-359.0	CARBONDALE	BRIAR HILL	COAL	1.6	788.0
-383.0	CARBONDALE	SPRINGFIELD	COAL	4.0	812.0
-504.0	CARBONDALE	HOUCHIN CREEK	COAL	3.8	933.0
-563.0	CARBONDALE	COLCHESTER	COAL	-	992.0
-639.0	CARBONDALE	DAVIS	COAL	3.6	1068.0
-671.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1100.0

MAPID: 18502005000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW
QUADRANGLE: BONE GAP LONGITUDE: -87.891559 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.431527 DATE COLLECTED:
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2141.0 LOG TYPE: Electric Log
SOURCE: ASHLAND OIL&REF. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-266.0	CARBONDALE	DANVILLE	COAL	-	695.0
-277.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	706.0
-293.0	CARBONDALE	HERRIN	COAL	4.0	722.0
-303.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	54.0	732.0
-357.0	CARBONDALE	BRIAR HILL	COAL	-	786.0
-363.0	CARBONDALE	CANTON	SILTSTONE/SANDSTONE	6.0	792.0
-401.0	CARBONDALE	SPRINGFIELD	COAL	9.0	830.0
-504.0	CARBONDALE	HOUCHIN CREEK	COAL	-	933.0

MAPID: 18502017000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE

QUADRANGLE: BONE GAP LONGITUDE: -87.898497 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.431593 DATE COLLECTED:

SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 2883.0 LOG TYPE: Electric Log

SOURCE: HED OIL CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-257.0	CARBONDALE	DANVILLE	COAL	-	710.0	
-269.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	722.0	
-287.0	CARBONDALE	HERRIN	COAL	3.0	740.0	
-295.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	46.0	748.0	
-347.0	CARBONDALE	BRIAR HILL	COAL	-	800.0	
-353.0	CARBONDALE	CANTON	SILTSTONE	6.0	806.0	
-371.0	CARBONDALE	SPRINGFIELD	COAL	3.0	824.0	
-491.0	CARBONDALE	HOUCHIN CREEK	COAL	-	944.0	

MAPID: 18525986000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 18 QUARTERS/FOOTAGES: 625' N line, 59' W line of SW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.901888 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.425331 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.3 LOGGED (FT.): 826.0 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. 13B-1B WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.3			NO RECORD	724.0	0.0	
-287.7			BLACK SHALE	6.0	724.0	
-293.7	CARBONDALE	HERRIN	COAL WITH SHALE	5.0	730.0	
-298.7			UNDERCLAY	1.0	735.0	GAP IN CORE; MED GRAY
-360.7			SHALE	6.0	797.0	DK GRAY
-366.7			INTERBEDDED SANDSTONE	6.0	803.0	LT GRAY
-372.7			SHALE & SANDSTONE	1.6	809.0	
-374.3	CARBONDALE	ST. DAVID	LIMESTONE	3.4	810.6	DK GRAY
-377.7			BLACK SHALE	1.0	814.0	
-378.7			SHALE	4.0	815.0	DK GRAY
-382.7	CARBONDALE	SPRINGFIELD	COAL	6.0	819.0	
-388.7			CLAYSTONE	1.0	825.0	

MAPID: 18526465000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 18 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.900973 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.424305 DATE COLLECTED: 12 / 5 / 1978

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 330.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 82703 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			UNCONSOLIDATED	20.0	0.0	SOIL AND CLAY
435.0	MATTOON		SANDSTONE	5.0	20.0	
430.0	MATTOON		GRAY SHALE	28.0	25.0	
402.0	MATTOON		LIMESTONE	3.0	53.0	
399.0	MATTOON		GRAY SHALE	5.0	56.0	
394.0	MATTOON		DARK SHALE	3.0	61.0	
391.0	MATTOON		COAL	2.0	64.0	DO NOT USE FOR RESOURCE CALCULATIONS
389.0	MATTOON		GRAY SHALE	9.0	66.0	
380.0	MATTOON		CALCAREOUS SHALE	10.0	75.0	
370.0	MATTOON		DARK SHALE	25.0	85.0	
345.0	MATTOON	FRIENDSVILLE	COAL	5.0	110.0	DO NOT USE FOR RESOURCE CALCULATIONS
340.0	BOND		LIMESTONE	2.0	115.0	
338.0	BOND		SANDY SHALE	23.0	117.0	
315.0	BOND		LIMESTONE	10.0	140.0	
305.0	BOND		SANDSTONE	30.0	150.0	
275.0	BOND		LIMESTONE	2.0	180.0	
273.0	BOND	WITT	COAL	2.0	182.0	DO NOT USE FOR RESOURCE CALCULATIONS
271.0	BOND		LIMESTONE	2.0	184.0	
269.0	BOND		DARK SHALE	6.0	186.0	
263.0	BOND		LIMESTONE	3.0	192.0	
260.0	BOND		GRAY SHALE	20.0	195.0	
240.0	BOND		DARK SHALE	18.0	215.0	
222.0	BOND	FLANNIGAN	COAL	5.0	233.0	DO NOT USE FOR RESOURCE CALCULATIONS
217.0	BOND		DARK SHALE	37.0	238.0	
180.0	BOND	MT. CARMEL	SANDSTONE	55.0	275.0	

MAPID: 18526630000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 18 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: BONE GAP LONGITUDE: -87.893758 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.435202 DATE COLLECTED: 10 / 9 / 1979

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 270.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 90290 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.0			UNCONSOLIDATED	20.0	0.0	SOIL AND CLAY
400.0	MATTOON		DARK SHALE	5.0	20.0	
395.0	MATTOON		COAL	4.0	25.0	DO NOT USE FOR RESOURCE CALCULATIONS
391.0	MATTOON		GRAY SHALE	11.0	29.0	
380.0	MATTOON		LIMESTONE	1.0	40.0	
379.0	MATTOON		SANDY SHALE	6.0	41.0	
373.0	MATTOON		DARK SHALE	8.0	47.0	
365.0	MATTOON		SANDY SHALE	5.0	55.0	
360.0	MATTOON		SANDSTONE	9.0	60.0	
351.0	MATTOON	FRIENDSVILLE	COAL	6.0	69.0	DO NOT USE FOR RESOURCE CALCULATIONS
345.0	BOND		LIMESTONE	2.0	75.0	
343.0	BOND		DARK SHALE	11.0	77.0	
332.0	BOND		COAL	2.0	88.0	DO NOT USE FOR RESOURCE CALCULATIONS
330.0	BOND		GRAY SHALE	8.0	90.0	
322.0	BOND		SANDY SHALE	34.0	98.0	
288.0	BOND		GRAY SHALE	23.0	132.0	
265.0	BOND		LIMESTONE	2.0	155.0	
263.0	BOND		DARK SHALE	48.0	157.0	
215.0	BOND	REEL	LIMESTONE	2.0	205.0	
213.0	BOND		DARK SHALE	33.0	207.0	
180.0	BOND	MT. CARMEL	SANDSTONE	30.0	240.0	

MAPID: 18527459000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 18 QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: BONE GAP LONGITUDE: -87.907844 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.424361 DATE COLLECTED: 4 / 1 / 1981

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 345.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 98978 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	22.0	0.0	
438.0	MATTOON		SANDY SHALE	18.0	22.0	
420.0	MATTOON		DARK SHALE	20.0	40.0	
400.0	MATTOON		SANDY SHALE	5.0	60.0	
395.0	MATTOON		SANDSTONE	35.0	65.0	
360.0	MATTOON	FRIENDSVILLE	COAL	8.0	100.0	DO NOT USE FOR RESOURCE CALCULATIONS
352.0	BOND		LIMESTONE	1.0	108.0	
351.0	BOND		SANDY SHALE	14.0	109.0	
337.0	BOND		COAL	3.0	123.0	DO NOT USE FOR RESOURCE CALCULATIONS
334.0	BOND		GRAY SHALE	9.0	126.0	
325.0	BOND		SANDY SHALE	5.0	135.0	
320.0	BOND		SANDSTONE	33.0	140.0	
287.0	BOND		DARK SHALE	9.0	173.0	
278.0	BOND		SANDY SHALE	20.0	182.0	
258.0	BOND		GRAY SHALE	18.0	202.0	
240.0	BOND		DARK SHALE	65.0	220.0	
175.0	BOND	MT. CARMEL	SANDSTONE	60.0	285.0	

MAPID: 18500033000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 19

QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: BONE GAP

LONGITUDE: -87.894296

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.411565

DATE COLLECTED: 0 / 0 / 1936

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 323.0

LOG TYPE: Drillers Log

SOURCE: POTTS BROTHERS

WELL TYPE: Unsuccessful or Unknown Results

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			UNCONSOLIDATED	30.0	0.0	SOIL AND CLAY
450.0	MATTOON		LIGHT SHALE	21.0	30.0	
429.0	MATTOON		COAL	1.0	51.0	DO NOT USE FOR RESOURCE CALCULATIONS
428.0	MATTOON		LIGHT SHALE	9.0	52.0	
419.0	MATTOON		SANDSTONE	5.0	61.0	
414.0	MATTOON		SHALE	9.0	66.0	
405.0	MATTOON		LIMESTONE	1.0	75.0	
404.0	MATTOON		SHALE	9.0	76.0	
395.0	MATTOON		LIGHT SHALE	3.0	85.0	
392.0	MATTOON		SHALE	1.0	88.0	
391.0	MATTOON		SHALE	26.0	89.0	
365.0	BOND		DARK SHALE	8.0	115.0	
357.0	BOND		GRAY SHALE	7.0	123.0	
350.0	BOND		LIMESTONE	2.0	130.0	
348.0	BOND		GRAY SHALE	18.0	132.0	
330.0	BOND		DARK SHALE	10.0	150.0	
320.0	BOND		COAL	1.0	160.0	DO NOT USE FOR RESOURCE CALCULATIONS
319.0	BOND		SHALE	1.0	161.0	
318.0	BOND		LIMESTONE	2.0	162.0	
316.0	BOND		DARK SHALE	8.0	164.0	
308.0	BOND		SANDY SHALE	8.0	172.0	
300.0	BOND		DARK SHALE	3.0	180.0	
297.0	BOND		LIGHT SHALE	5.0	183.0	
292.0	BOND		DARK SHALE	7.0	188.0	
285.0	BOND		SANDY SHALE	5.0	195.0	
280.0	BOND		SANDSTONE	10.0	200.0	
270.0	BOND		DARK SHALE	22.0	210.0	
248.0	BOND		LIMESTONE	1.0	232.0	
247.0	BOND		DARK SHALE	6.0	233.0	
241.0	BOND		LIGHT SHALE	2.0	239.0	
239.0	BOND		LIMESTONE	7.0	241.0	
232.0	BOND		SANDY SHALE	12.0	248.0	
220.0	BOND		DARK SHALE	32.0	260.0	
188.0	BOND	REEL	LIMESTONE	2.0	292.0	
186.0	BOND		DARK SHALE	1.0	294.0	
185.0	BOND		LIGHT SHALE	15.0	295.0	
170.0	BOND		GRAY SHALE	13.0	310.0	

MAPID: 18500034000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 19

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: BONE GAP

LONGITUDE: -87.910293

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.409763

DATE COLLECTED: 9 / 0 / 1942

SURFACE ELEVATION (FT.): 436.0

LOGGED (FT.): 205.0

LOG TYPE: Drillers Log

SOURCE: POTTS BROTHERS

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.0			UNCONSOLIDATED	14.0	0.0	SOIL AND CLAY (DRIFT)
422.0			SHALE	7.0	14.0	
415.0			COAL	1.0	21.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
414.0			LIMESTONE	3.0	22.0	
411.0			GRAY SHALE	15.0	25.0	
396.0			LIGHT SHALE	15.0	40.0	
381.0			DARK SHALE	28.0	55.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
353.0			GRAY SHALE	12.0	83.0	
341.0			SANDSTONE	6.0	95.0	
335.0			SANDSTONE	14.0	101.0	
321.0			DARK SHALE	17.0	115.0	
304.0			COAL	2.0	132.0	
302.0			LIMESTONE	2.0	134.0	
300.0			DARK SHALE	17.0	136.0	
283.0			LIGHT SHALE	19.0	153.0	
264.0			SANDSTONE	6.0	172.0	
258.0			SANDSTONE	12.0	178.0	
246.0			SANDSTONE	15.0	190.0	

MAPID: 18501589000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 19 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
 QUADRANGLE: BONE GAP LONGITUDE: -87.901013 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.420666 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 2652.0 LOG TYPE: Electric Log
 SOURCE: M & M DRILLING CORP WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-316.0	CARBONDALE	DANVILLE	COAL	-	764.0	
-326.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	774.0	
-347.0	CARBONDALE	HERRIN	COAL	4.0	795.0	
-356.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	50.0	804.0	
-412.0	CARBONDALE	BRIAR HILL	COAL	-	860.0	
-418.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	10.0	866.0	
-439.0	CARBONDALE	SPRINGFIELD	COAL	5.0	887.0	
-449.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE & SHALE	13.0	897.0	

MAPID: 18526043000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 19 QUARTERS/FOOTAGES: 115' N line, 66' E line of NW NW
 QUADRANGLE: BONE GAP LONGITUDE: -87.906949 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.42312 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 1111.0 LOG TYPE: Survey Core Study
 SOURCE: AMAX C. C. BB-51 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
442.0			NO RECORD	761.0	0.0	
-319.0			BLACK SHALE	2.4	761.0	
-321.4	CARBONDALE	HERRIN	COAL	0.0	763.4	REMOVED - GAP IN CORE
-326.0			CLAYSTONE	3.4	768.0	GAP IN CORE
-402.0			BLACK SHALE	0.8	844.0	
-402.8			LIMESTONE	0.3	844.8	
-403.1	CARBONDALE	SPRINGFIELD	COAL	0.0	845.1	REMOVED - GAP IN CORE
-407.7			CLAYSTONE	0.4	849.7	GAP IN CORE
-633.0			SANDSTONE	6.0	1075.0	LT GRAY
-639.0			SANDSTONE	6.0	1081.0	GRAY
-645.0			SANDSTONE	6.0	1087.0	
-651.0			SANDSTONE	2.0	1093.0	
-653.0			SHALE	4.0	1095.0	DK GRAY
-657.0			SHALE	3.5	1099.0	
-660.5	SPOON	SEELYVILLE	COAL	0.0	1102.5	REMOVED - GAP IN CORE
-666.0			CLAYSTONE	3.0	1108.0	CARBONIZED; DK GRAY

MAPID: 18526417000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 19 QUARTERS/FOOTAGES: 300' N line, 300' E line of NW NE

QUADRANGLE: BONE GAP LONGITUDE: -87.898626 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.422543 DATE COLLECTED: 10 / 3 / 1978

SURFACE ELEVATION (FT.): LOGGED (FT.): 360.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 80283 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	15.0	0.0	
-	MATTOON		SANDSTONE	4.0	15.0	
-	MATTOON		DARK SHALE	5.0	19.0	
-	MATTOON		DARK GRAY SHALE	2.0	24.0	
-	MATTOON		GRAY SHALE	2.0	26.0	
-	MATTOON		LIMESTONE	1.0	28.0	
-	MATTOON		GRAY SHALE	6.0	29.0	
-	MATTOON		SANDY SHALE	15.0	35.0	
-	MATTOON		DARK SHALE	15.0	50.0	
-	MATTOON	FRIENDSVILLE	COAL	2.0	65.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	13.0	67.0	
-	BOND		LIMESTONE	1.0	80.0	
-	BOND		GRAY SHALE	4.0	81.0	
-	BOND		DARK SHALE	13.0	85.0	
-	BOND		COAL	3.0	98.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		DARK SHALE	1.0	101.0	
-	BOND		LIMESTONE	1.0	102.0	
-	BOND		DARK SHALE	10.0	103.0	
-	BOND		COAL	2.0	113.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	20.0	115.0	
-	BOND		DARK SHALE	33.0	135.0	
-	BOND	WITT	COAL	3.0	168.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	39.0	171.0	
-	BOND		DARK SHALE	32.0	210.0	
-	BOND	FLANNIGAN	COAL	2.0	242.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		DARK SHALE	4.0	244.0	
-	BOND		GRAY SHALE	37.0	248.0	
-	BOND	MT. CARMEL	SANDSTONE	30.0	285.0	
-	BOND	CARTHAGE	LIMESTONE	10.0	315.0	
-	PATOKA		COAL	5.0	325.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	PATOKA		SANDY SHALE	30.0	330.0	

MAPID: 18526631000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 19

QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: BONE GAP

LONGITUDE: -87.894243

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.415187

DATE COLLECTED: 6 / 11 / 1979

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 86553

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	16.0	0.0	SOIL AND CLAY
434.0	MATTOON		COAL	7.0	16.0	DO NOT USE FOR RESOURCE CALCULATIONS
427.0	MATTOON		DARK SHALE	7.0	23.0	
420.0	MATTOON		LIMESTONE	10.0	30.0	
410.0	MATTOON		DARK SHALE	8.0	40.0	
402.0	MATTOON		GRAY SHALE	17.0	48.0	
385.0	MATTOON		LIMESTONE	3.0	65.0	
382.0	MATTOON		DARK SHALE	19.0	68.0	
363.0	MATTOON		COAL	3.0	87.0	DO NOT USE FOR RESOURCE CALCULATIONS
360.0	MATTOON		GRAY SHALE	15.0	90.0	
345.0	MATTOON		DARK SHALE	7.0	105.0	
338.0	MATTOON	FRIENDSVILLE	COAL	6.0	112.0	DO NOT USE FOR RESOURCE CALCULATIONS
332.0	BOND		LIMESTONE	2.0	118.0	
330.0	BOND		DARK SHALE	50.0	120.0	
280.0	BOND		SANDSTONE	15.0	170.0	
265.0	BOND		LIMESTONE	5.0	185.0	
260.0	BOND		SANDSTONE	7.0	190.0	
253.0	BOND		DARK SHALE	22.0	197.0	
231.0	BOND		GRAY SHALE	11.0	219.0	
220.0	BOND		DARK SHALE	70.0	230.0	
150.0	BOND	MT. CARMEL	SANDSTONE	45.0	300.0	

MAPID: 18526632000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 19

QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: BONE GAP

LONGITUDE: -87.894243

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.415187

DATE COLLECTED: 2 / 16 / 1979

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 83547

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	10.0	0.0	SOIL AND CLAY
440.0	MATTOON		COAL	4.0	10.0	DO NOT USE FOR RESOURCE CALCULATIONS
436.0	MATTOON		GRAY SHALE	6.0	14.0	
430.0	MATTOON		SANDSTONE	5.0	20.0	
425.0	MATTOON		DARK SHALE	15.0	25.0	
410.0	MATTOON		SANDY SHALE	15.0	40.0	
395.0	MATTOON		DARK SHALE	10.0	55.0	
385.0	MATTOON	KEENSBURG	COAL	5.0	65.0	DO NOT USE FOR RESOURCE CALCULATIONS
380.0	MATTOON		GRAY SHALE	10.0	70.0	
370.0	MATTOON		LIMESTONE	3.0	80.0	
367.0	MATTOON		GRAY SHALE	4.0	83.0	
363.0	MATTOON		DARK SHALE	30.0	87.0	
333.0	MATTOON	FRIENDSVILLE	COAL	5.0	117.0	DO NOT USE FOR RESOURCE CALCULATIONS
328.0	BOND		LIMESTONE	3.0	122.0	
325.0	BOND		DARK SHALE	19.0	125.0	
306.0	BOND		GRAY SHALE	11.0	144.0	
295.0	BOND		SANDSTONE	20.0	155.0	
275.0	BOND		DARK SHALE	14.0	175.0	
261.0	BOND		SANDSTONE	43.0	189.0	
218.0	BOND		DARK SHALE	28.0	232.0	
190.0	BOND		COAL	3.0	260.0	DO NOT USE FOR RESOURCE CALCULATIONS
187.0	BOND		SANDY SHALE	47.0	263.0	
140.0	BOND	MT. CARMEL	SANDSTONE	35.0	310.0	

MAPID: 18526633000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 19

QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: BONE GAP

LONGITUDE: -87.898884

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.409757

DATE COLLECTED: 4 / 24 / 1979

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 84863

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	20.0	0.0	SOIL AND CLAY
440.0			DARK SHALE	15.0	20.0	
425.0			COAL	5.0	35.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
420.0			LIMESTONE	10.0	40.0	
410.0			DARK SHALE	7.0	50.0	
403.0			LIMESTONE	9.0	57.0	
394.0			GRAY SHALE	14.0	66.0	
380.0			DARK SHALE	20.0	80.0	
360.0			COAL	3.0	100.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
357.0			GRAY SHALE	5.0	103.0	
352.0			SANDY SHALE	19.0	108.0	
333.0			DARK SHALE	13.0	127.0	
320.0			COAL	4.0	140.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
316.0			LIMESTONE	8.0	144.0	
308.0			DARK SHALE	33.0	152.0	
275.0			SANDSTONE	15.0	185.0	
260.0			SANDSTONE	50.0	200.0	
210.0			DARK SHALE	39.0	250.0	
171.0			COAL	3.0	289.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
168.0			LIMESTONE	2.0	292.0	
166.0			DARK SHALE	10.0	294.0	
156.0			SANDSTONE	41.0	304.0	

MAPID: 18527561000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 19

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: BONE GAP

LONGITUDE: -87.910293

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.409763

DATE COLLECTED: 1 / 7 / 1986

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 121974

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			CLAY	20.0	0.0	
420.0	MATTOON		GRAY SHALE	4.0	20.0	
416.0	MATTOON		COAL	2.0	24.0	DO NOT USE FOR RESOURCE CALCULATIONS
414.0	MATTOON		LIMESTONE	2.0	26.0	
412.0	MATTOON		SANDSTONE	7.0	28.0	
405.0	MATTOON		GRAY SHALE	6.0	35.0	
399.0	MATTOON		LIMESTONE	6.0	41.0	
393.0	MATTOON		GRAY SHALE	36.0	47.0	
357.0	MATTOON	KEENSBURG	COAL	2.0	83.0	DO NOT USE FOR RESOURCE CALCULATIONS
355.0	MATTOON		GRAY SHALE	16.0	85.0	
339.0	MATTOON		SANDSTONE	18.0	101.0	
321.0	MATTOON		DARK SHALE	12.0	119.0	
309.0	MATTOON	FRIENDSVILLE	COAL	5.0	131.0	DO NOT USE FOR RESOURCE CALCULATIONS
304.0	BOND		DARK SHALE	2.0	136.0	
302.0	BOND		LIMESTONE	2.0	138.0	
300.0	BOND		GRAY SHALE	25.0	140.0	
275.0	BOND		SANDSTONE	15.0	165.0	
260.0	BOND		LIMESTONE	15.0	180.0	
245.0	BOND		SANDSTONE	11.0	195.0	
234.0	BOND		DARK SHALE	14.0	206.0	
220.0	BOND		LIMESTONE	6.0	220.0	
214.0	BOND		GRAY SHALE	3.0	226.0	
211.0	BOND		SANDSTONE	2.0	229.0	
209.0	BOND		GRAY SHALE	39.0	231.0	
170.0	BOND	REEL	LIMESTONE	2.0	270.0	
168.0	BOND		SANDY SHALE	28.0	272.0	
140.0	BOND	MT. CARMEL	SANDSTONE	45.0	300.0	

MAPID: 18502043000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.880141 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.415048 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 2634.0 LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-280.0	CARBONDALE	DANVILLE	COAL	-	760.0
-296.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	776.0
-314.0	CARBONDALE	HERRIN	COAL	4.0	794.0
-324.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	38.0	804.0
-384.0	CARBONDALE	BRIAR HILL	COAL	-	864.0
-422.0	CARBONDALE	SPRINGFIELD	COAL	8.0	902.0
-437.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	21.0	917.0
-490.0	CARBONDALE	HOUCHIN CREEK	COAL	-	970.0

MAPID: 18504308000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 20 QUARTERS/FOOTAGES: 101' S line, 330' W line of SE NW

QUADRANGLE: BONE GAP LONGITUDE: -87.887219 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.41631 DATE COLLECTED: 7 / 17 / 1954

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 2657.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
330.0	MATTOON	FRIENDSVILLE	COAL	3.0	147.0
237.0	BOND	WITT	COAL	2.8	240.0
180.0	BOND	REEL	LIMESTONE	3.5	297.0
82.0	BOND	CARTHAGE	LIMESTONE	15.0	395.0
2.0	PATOKA	MACOUPIN	LIMESTONE	1.0	475.0
-90.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	567.0
-320.0	SHELBURN	DANVILLE	COAL	3.8	797.0
-354.0	CARBONDALE	HERRIN	COAL	5.0	831.0
-413.0	CARBONDALE	BRIAR HILL	COAL	2.0	890.0
-445.0	CARBONDALE	SPRINGFIELD	COAL	7.8	922.0
-519.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	996.0
-531.0	CARBONDALE	COLCHESTER	COAL	-	1008.0
-630.0	CARBONDALE	DAVIS	COAL	3.8	1107.0
-662.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1139.0

MAPID: 18526419000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 20

QUARTERS/FOOTAGES: NE SW SE

QUADRANGLE: BONE GAP

LONGITUDE: -87.88022

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.411421

DATE COLLECTED: 4 / 19 / 1978

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 336.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 73235

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	10.0	0.0	SOIL AND CLAY
450.0	MATTOON	KEENSBURG	COAL	5.0	10.0	DO NOT USE FOR RESOURCE CALCULATIONS
445.0	MATTOON		GRAY SHALE	25.0	15.0	
420.0	MATTOON		SANDSTONE	10.0	40.0	
410.0	MATTOON		DARK SHALE	5.0	50.0	
405.0	MATTOON	FRIENDSVILLE	COAL	1.0	55.0	DO NOT USE FOR RESOURCE CALCULATIONS
404.0	BOND		LIMESTONE	1.0	56.0	
403.0	BOND		DARK SHALE	53.0	57.0	
350.0	BOND		LIMESTONE	5.0	110.0	
345.0	BOND		SANDSTONE	15.0	115.0	DO NOT USE FOR RESOURCE CALCULATIONS
330.0	BOND		GRAY SHALE	15.0	130.0	
315.0	BOND		SANDSTONE	35.0	145.0	
280.0	BOND		DARK SHALE	12.0	180.0	
268.0	BOND		COAL	5.0	192.0	
263.0	BOND		LIMESTONE	13.0	197.0	
250.0	BOND		DARK SHALE	75.0	210.0	
175.0	BOND		GRAY SHALE	15.0	285.0	
160.0	BOND	MT. CARMEL	SANDSTONE	36.0	300.0	

MAPID: 18527224000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 20

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

QUADRANGLE: BONE GAP

LONGITUDE: -87.875391

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.417734

DATE COLLECTED: 10 / 12 / 1983

SURFACE ELEVATION (FT.): 444.0

LOGGED (FT.): 0.0

LOG TYPE: Nuclear Log

SOURCE: K & W OIL CO

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
23.0	PATOKA	MACOUPIN	LIMESTONE	1.0	421.0
-66.0	SHELBURN	WEST FRANKLIN	LIMESTONE	10.0	510.0
-289.0	SHELBURN	DANVILLE	COAL	3.0	733.0
-324.0	CARBONDALE	HERRIN	COAL	4.5	768.0
-440.0	CARBONDALE	SPRINGFIELD	COAL	7.0	884.0
-516.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	960.0
-586.0	CARBONDALE	COLCHESTER	COAL	-	1030.0
-596.0	CARBONDALE	DEKOVEN	COAL	2.5	1040.0
-616.0	CARBONDALE	DAVIS	COAL	6.0	1060.0
-651.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	3.8	1095.0

MAPID: 18527539000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 20

QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: BONE GAP

LONGITUDE: -87.891873

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.418791

DATE COLLECTED: 10 / 10 / 1985

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 356.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 120800

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	20.0	0.0	
460.0	MATTOON		GRAY SHALE	16.0	20.0	
444.0	MATTOON		COAL	2.0	36.0	DO NOT USE FOR RESOURCE CALCULATIONS
442.0	MATTOON		LIMESTONE	4.0	38.0	
438.0	MATTOON		GRAY SHALE	5.0	42.0	
433.0	MATTOON		LIMESTONE	2.0	47.0	
431.0	MATTOON		COAL	1.0	49.0	DO NOT USE FOR RESOURCE CALCULATIONS
430.0	MATTOON		GRAY SHALE	15.0	50.0	
415.0	MATTOON		SANDSTONE	11.0	65.0	
404.0	MATTOON		SANDY SHALE	3.0	76.0	
401.0	MATTOON		GRAY SHALE	7.0	79.0	
394.0	MATTOON	FRIENDSVILLE	COAL	4.0	86.0	DO NOT USE FOR RESOURCE CALCULATIONS
390.0	BOND		GRAY SHALE	8.0	90.0	
382.0	BOND		LIMESTONE	2.0	98.0	
380.0	BOND		DARK SHALE	35.0	100.0	
345.0	BOND		COAL	5.0	135.0	DO NOT USE FOR RESOURCE CALCULATIONS
340.0	BOND		LIMESTONE	2.0	140.0	
338.0	BOND		DARK SHALE	14.0	142.0	
324.0	BOND	WITT	COAL	1.0	156.0	DO NOT USE FOR RESOURCE CALCULATIONS
323.0	BOND		LIMESTONE	1.0	157.0	
322.0	BOND		GRAY SHALE	11.0	158.0	
311.0	BOND		SANDSTONE	26.0	169.0	
285.0	BOND		DARK SHALE	21.0	195.0	
264.0	BOND	REEL	LIMESTONE	15.0	216.0	
249.0	BOND		GRAY SHALE	24.0	231.0	
225.0	BOND		DARK SHALE	49.0	255.0	
176.0	BOND		SANDY SHALE	19.0	304.0	
157.0	BOND	MT. CARMEL	SANDSTONE	33.0	323.0	

MAPID: 18500981000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.86372 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.416744 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2820.0 LOG TYPE: Electric Log

SOURCE: INLAND PRODUCERS CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-289.0	CARBONDALE	DANVILLE	COAL	-	740.0
-309.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	760.0
-323.0	CARBONDALE	HERRIN	COAL	5.0	774.0
-335.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	34.0	786.0
-393.0	CARBONDALE	BRIAR HILL	COAL	-	844.0
-429.0	CARBONDALE	SPRINGFIELD	COAL	8.0	880.0
-445.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	18.0	896.0
-507.0	CARBONDALE	HOUCHIN CREEK	COAL	-	958.0

MAPID: 18502790000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 21 QUARTERS/FOOTAGES: 384' S line, 384' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.863531 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.416893 DATE COLLECTED: 1 / 8 / 1949

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 2754.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
297.0	BOND	WITT	COAL	1.0	163.0
238.0	BOND	REEL	LIMESTONE	1.8	222.0
188.0	BOND	MT. CARMEL	SANDSTONE	108.0	272.0
36.0	PATOKA	MACOUPIN	LIMESTONE	2.0	424.0
-53.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	513.0
-281.0	SHELBURN	DANVILLE	COAL	4.0	741.0
-313.0	CARBONDALE	HERRIN	COAL	6.0	773.0
-385.0	CARBONDALE	BRIAR HILL	COAL	2.0	845.0
-422.0	CARBONDALE	SPRINGFIELD	COAL	7.7	882.0
-500.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	960.0
-572.0	CARBONDALE	COLCHESTER	COAL	-	1032.0
-584.0	CARBONDALE	DEKOVEN	COAL	2.8	1044.0
-600.0	CARBONDALE	DAVIS	COAL	3.8	1060.0
-632.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1092.0

MAPID: 18526200000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 21

QUARTERS/FOOTAGES: 1000' S line, 100' E line of SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.855827

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.411234

DATE COLLECTED: 4 / 16 / 1976

SURFACE ELEVATION (FT.):

LOGGED (FT.): 4.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 46380

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	20.0	0.0	
-			GRAY SHALE	15.0	20.0	
-			LIMESTONE	1.0	35.0	
-			DARK SHALE	21.0	36.0	
-			COAL	2.0	57.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	8.0	59.0	
-			SANDSTONE	14.0	67.0	
-			DARK SHALE	5.0	81.0	
-			COAL	3.0	86.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	5.0	89.0	
-			DARK SHALE	23.0	94.0	
-			SHALE	8.0	117.0	
-			DARK SHALE	8.0	125.0	
-			SANDSTONE	11.0	133.0	
-			DARK SHALE	13.0	144.0	
-			GRAY SHALE	10.0	157.0	
-			SANDSTONE	6.0	167.0	
-			GRAY SHALE	12.0	173.0	
-			DARK SHALE	80.0	185.0	
-			SANDSTONE	29.0	265.0	

MAPID: 18526229000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 21 QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.859029 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.422197 DATE COLLECTED: 8 / 3 / 1976

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 293.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 50457 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
410.0	MATTOON		LIMESTONE	2.0	25.0	
408.0	MATTOON		GRAY SHALE	8.0	27.0	
400.0	MATTOON	KEENSBURG	COAL	2.0	35.0	DO NOT USE FOR RESOURCE CALCULATIONS
398.0	MATTOON		GRAY SHALE	17.0	37.0	
381.0	MATTOON		LIGHT SHALE	6.0	54.0	
375.0	MATTOON		GRAY SHALE	13.0	60.0	
362.0	MATTOON	FRIENDSVILLE	COAL	7.0	73.0	DO NOT USE FOR RESOURCE CALCULATIONS
355.0	BOND		LIMESTONE	3.0	80.0	
352.0	BOND		GRAY SHALE	24.0	83.0	
328.0	BOND		SANDSTONE	27.0	107.0	
301.0	BOND		SHALE	11.0	134.0	
290.0	BOND	WITT	COAL	2.0	145.0	DO NOT USE FOR RESOURCE CALCULATIONS
288.0	BOND		LIGHT SHALE	5.0	147.0	
283.0	BOND		LIMESTONE	15.0	152.0	
268.0	BOND		GRAY SHALE	33.0	167.0	
235.0	BOND	FLANNIGAN	COAL	2.0	200.0	DO NOT USE FOR RESOURCE CALCULATIONS
233.0	BOND		GRAY SHALE	69.0	202.0	
164.0	BOND	MT. CARMEL	SANDSTONE	22.0	271.0	

MAPID: 18526281000C VERSION: 1 PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 21 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.856649 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.409392 DATE COLLECTED: 11 / 30 / 1976

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 305.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 55232 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0			UNCONSOLIDATED	15.0	0.0	
420.0			SANDSTONE	5.0	15.0	
415.0			SHALE	10.0	20.0	
405.0			LIMESTONE	3.0	30.0	
402.0			SANDY SHALE	2.0	33.0	
400.0			LIMESTONE	2.0	35.0	
398.0			SANDY SHALE	8.0	37.0	
390.0			SHALE	2.0	45.0	
388.0			SANDY SHALE	63.0	47.0	
325.0			COAL	2.0	110.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
323.0			SHALE	26.0	112.0	
297.0			LIMESTONE	3.0	138.0	
294.0			SANDSTONE	99.0	141.0	SS W/ SDY SH
195.0			SANDY SHALE	40.0	240.0	
155.0			SANDSTONE	15.0	280.0	
140.0			COAL	2.0	295.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
138.0			SHALE	8.0	297.0	

MAPID: 18526634000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 21 **QUARTERS/FOOTAGES:** 300' S line, 300' E line of SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.856517 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.409305 **DATE COLLECTED:** 10 / 3 / 1978
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 300.0 **LOG TYPE:** Drillers Log
SOURCE: GEOLOGICAL AND WATER SURVEY 80284 **WELL TYPE:** Water Well
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	15.0	0.0	
-	MATTOON		SANDSTONE	3.0	15.0	
-	MATTOON		GRAY SHALE	23.0	18.0	
-	MATTOON	FRIENDSVILLE	COAL	4.0	41.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	28.0	45.0	
-	BOND		COAL	4.0	73.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		LIMESTONE	5.0	77.0	
-	BOND		GRAY SHALE	28.0	82.0	
-	BOND		SANDY SHALE	12.0	110.0	
-	BOND		SANDSTONE	15.0	122.0	
-	BOND		DARK SHALE	28.0	137.0	
-	BOND		GRAY SHALE	30.0	165.0	
-	BOND		SANDY SHALE	30.0	195.0	
-	BOND		DARK SHALE	30.0	225.0	
-	BOND	MT. CARMEL	SANDSTONE	45.0	255.0	

MAPID: 18502130000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.8402 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.41474 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 2443.0 **LOG TYPE:** Electric Log
SOURCE: HAYES&WOLF BROTHERS OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-239.0	CARBONDALE	DANVILLE	COAL	-	674.0	
-253.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	688.0	
-267.0	CARBONDALE	HERRIN	COAL	3.0	702.0	
-285.0	CARBONDALE	VERMILIONVILLE	SILTSTONE/SANDSTONE	42.0	720.0	
-340.0	CARBONDALE	BRIAR HILL	COAL	-	775.0	
-371.0	CARBONDALE	SPRINGFIELD	COAL	6.0	806.0	
-455.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0	

MAPID: 18504324000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.84021 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.412935 **DATE COLLECTED:** 5 / 21 / 1950
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 2427.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
242.0	BOND	REEL	LIMESTONE	1.0	180.0
230.0	BOND	MT. CARMEL	SANDSTONE	92.0	192.0
70.0	PATOKA	MACOUPIN	LIMESTONE	2.0	352.0
-20.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	442.0
-245.0	SHELBURN	DANVILLE	COAL	3.0	667.0
-275.0	CARBONDALE	HERRIN	COAL	3.8	697.0
-344.0	CARBONDALE	BRIAR HILL	COAL	1.0	766.0
-372.0	CARBONDALE	SPRINGFIELD	COAL	6.0	794.0
-465.0	CARBONDALE	HOUCHIN CREEK	COAL	2.6	887.0
-540.0	CARBONDALE	COLCHESTER	COAL	-	962.0
-556.0	CARBONDALE	DEKOVEN	COAL	1.3	978.0
-575.0	CARBONDALE	DAVIS	COAL	4.5	997.0
-607.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1029.0

MAPID: 18505337000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 22 **QUARTERS/FOOTAGES:** NE NE NE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.837231 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.415175 **DATE COLLECTED:** 7 / 25 / 1957
SURFACE ELEVATION (FT.): 420.0 **LOGGED (FT.):** 26.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO. 48FR **WELL TYPE:** Coal Test
COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
420.0			UNCONSOLIDATED	15.0	0.0
405.0			COAL	0.3	15.0
404.7			SHALY COAL	2.1	15.3 WITH PYRITE
402.6			SANDY CLAYSTONE	4.1	17.4 DK GRAY
398.5			FOSSILIFEROUS SHALE	0.6	21.5
397.9			FOSSILIFEROUS LIMESTONE	0.9	22.1 GRAY
397.0			SHALY SANDSTONE	3.0	23.0 GRAY

MAPID: 18526635000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 22 QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.8496 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.409353 DATE COLLECTED: 6 / 7 / 1979

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 285.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 86367 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
400.0			SANDSTONE	5.0	15.0	
395.0			DARK SHALE	7.0	20.0	
388.0			COAL	3.0	27.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
385.0			GRAY SHALE	5.0	30.0	
380.0			SANDY SHALE	4.0	35.0	
376.0			DARK SHALE	26.0	39.0	
350.0			COAL	3.0	65.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
347.0			DARK SHALE	2.0	68.0	
345.0			LIMESTONE	3.0	70.0	
342.0			DARK SHALE	17.0	73.0	
325.0			SANDY SHALE	5.0	90.0	
320.0			SANDSTONE	30.0	95.0	
290.0			GRAY SHALE	13.0	125.0	
277.0			LIMESTONE	4.0	138.0	
273.0			DARK SHALE	2.0	142.0	
271.0			SANDSTONE	21.0	144.0	
250.0			DARK SHALE	25.0	165.0	
225.0			LIMESTONE	15.0	190.0	
210.0			SANDY SHALE	35.0	205.0	
175.0			SANDSTONE	45.0	240.0	

MAPID: 18500092000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821245 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.40949 DATE COLLECTED:

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 2532.0 LOG TYPE:

SOURCE: LAMBERT BURR WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	434.0	
-229.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0	
-1384.0			LIMESTONE	-	1830.0	
-1816.0		BASE BARLOW	LIMESTONE	-	2262.0	
-2086.0	RENAULT	BASE RENAULT	LIMESTONE	-	2532.0	

MAPID: 18500725001M **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 23 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.823394 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.418584 **DATE COLLECTED:** 8 / 8 / 1928
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 52.0 **LOG TYPE:**
SOURCE: **WELL TYPE:** Mine Shaft
COMMENT: BLACK DIAMOND MINE FROM ISGS NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
391.0	MATTOON	FRIENDSVILLE	COAL	3.0	49.0

MAPID: 18501414000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 23 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.823477 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.413115 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 2288.0 **LOG TYPE:**
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	478.0
-230.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	715.0
-1359.0			LIMESTONE	-	1844.0
-1803.0		BASE BARLOW	LIMESTONE	-	2288.0

MAPID: 18501462000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.823434 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.414937 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 2290.0 **LOG TYPE:**
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
5.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	484.0
-235.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	724.0
-1405.0			LIMESTONE	-	1894.0
-1801.0		BASE BARLOW	LIMESTONE	-	2290.0

MAPID: 18501657000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821077 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.416797 DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 2543.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
11.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	466.0
-233.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	710.0
-1331.0			LIMESTONE	-	1808.0
-1792.0		BASE BARLOW	LIMESTONE	-	2269.0
-2066.0	RENAULT	BASE RENAULT	LIMESTONE	-	2543.0

MAPID: 18502131000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825832 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.414897 DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2280.0 LOG TYPE:

SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-3.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	482.0
-247.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	726.0
-1342.0			LIMESTONE	-	1821.0
-1801.0		BASE BARLOW	LIMESTONE	-	2280.0

MAPID: 18502131000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825832 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.414897 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2288.0 LOG TYPE: Electric Log
SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-215.0	CARBONDALE	DANVILLE	COAL	-	694.0
-226.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	705.0
-247.0	CARBONDALE	HERRIN	COAL	4.0	726.0
-263.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	28.0	742.0
-307.0	CARBONDALE	BRIAR HILL	COAL	-	786.0
-311.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	10.0	790.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	3.0	812.0
-448.0	CARBONDALE	HOUCHIN CREEK	COAL	-	927.0

MAPID: 18502131000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825832 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.414897 DATE COLLECTED: 1 / 8 / 1948
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2288.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
284.0	BOND	REEL	LIMESTONE	1.0	195.0
254.0	BOND	MT. CARMEL	SANDSTONE	85.0	225.0
89.0	PATOKA	MACOUPIN	LIMESTONE	4.0	390.0
-3.0	SHELBURN	WEST FRANKLIN	LIMESTONE	17.0	482.0
-216.0	SHELBURN	DANVILLE	COAL	3.5	695.0
-246.0	CARBONDALE	HERRIN	COAL	4.0	725.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	3.8	812.0
-453.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	932.0
-525.0	CARBONDALE	COLCHESTER	COAL	-	1004.0
-541.0	CARBONDALE	DEKOVEN	COAL	2.5	1020.0
-561.0	CARBONDALE	DAVIS	COAL	4.0	1040.0
-591.0	TRADEWATER	CARRIER MILLS	SHALE	-	1070.0

MAPID: 18502791000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823475 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.416757 DATE COLLECTED:
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 2542.0 LOG TYPE:
SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-2062.0	RENAULT	BASE RENAULT	LIMESTONE	-	2542.0	

MAPID: 18503894001M VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825835 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.416717 DATE COLLECTED: 0 / 0 / 1927
SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 38.3 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: CHAS.H. WORTH MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
388.0	MATTOON	FRIENDSVILLE	COAL	3.3	35.0	

MAPID: 18503896001M VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825906 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.413073 DATE COLLECTED: 10 / 0 / 1942
SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 48.6 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: SEITZ MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
414.0	MATTOON	FRIENDSVILLE	COAL	3.6	45.0	

MAPID: 18504327000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 1090' N line, 330' E line of W2 NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825874 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.412799 DATE COLLECTED:
SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 2282.0 LOG TYPE:
SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
3.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	474.0
-243.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	720.0
-1352.0			LIMESTONE	-	1829.0
-1805.0		BASE BARLOW	LIMESTONE	-	2282.0

MAPID: 18504328000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 990' S line, 330' W line of SW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825977 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.411249 DATE COLLECTED:
SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 2527.0 LOG TYPE:
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
8.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-241.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	694.0
-1360.0			LIMESTONE	-	1813.0
-1802.0		BASE BARLOW	LIMESTONE	-	2255.0
-2074.0	RENAULT	BASE RENAULT	LIMESTONE	-	2527.0

MAPID: 18504331000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825793 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.416719 DATE COLLECTED:
SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 2270.0 LOG TYPE:
SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	472.0
-245.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	716.0
-1347.0			LIMESTONE	-	1818.0
-1799.0		BASE BARLOW	LIMESTONE	-	2270.0

MAPID: 18504650001M

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 23

QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.82121

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.409493

DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 428.0

LOGGED (FT.): 35.7

LOG TYPE:

SOURCE:

WELL TYPE: Mine Shaft

COMMENT: KOLB MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.0	MATTOON	FRIENDSVILLE	COAL	3.7	32.0	

MAPID: 18505097000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 23

QUARTERS/FOOTAGES: 990' N line, 990' E line of SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.821012

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.413157

DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0

LOGGED (FT.): 2551.0

LOG TYPE:

SOURCE: MINOR, F. M. DRLG. CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1809.0		BASE BARLOW	LIMESTONE	-	2286.0	
-2074.0	RENAULT	BASE RENAULT	LIMESTONE	-	2551.0	

MAPID: 18505347000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818637 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.416844 DATE COLLECTED: 10 / 4 / 1957

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 58FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			UNCONSOLIDATED	16.6	0.0	
448.4			CLAY	6.1	16.6	WITH LIMESTONE NODULES; BROWN
442.3			SANDSTONE	0.6	22.7	BROWN
441.7			CLAYSTONE	0.8	23.3	WITH LIMESTONE NODULES; BROWN
441.0			SANDSTONE	0.3	24.0	BROWN
440.7			CLAYSTONE	2.1	24.3	WITH LIMESTONE NODULES; BROWN
438.6			BLACK SHALE	2.6	26.4	
436.0			COAL	1.3	29.0	
434.7			CLAYSTONE	3.9	30.3	GRAY
430.8			COAL	0.4	34.2	
430.4			ARGILACEOUS SHALE	4.9	34.6	WITH SMALL LIMESTONE NODULES
425.5			ARGILACEOUS SHALE	3.0	39.5	
422.5			LIMESTONE	0.5	42.5	GRAY
422.0			SANDY SHALE	3.8	43.0	WITH LIMESTONE NODULES
418.2			SANDY SHALE	2.0	46.8	WITH LIMESTONE FOSSILS
416.2			SANDY SHALE	1.4	48.8	
414.8			LIMESTONE	0.7	50.2	GRAY
414.2			SANDY SHALE	6.3	50.8	WITH BLACK CARBONACEOUS
407.9			DARK SHALE	0.9	57.1	WITH SANDSTONE STREAKS & COAL SPARS
407.0			DARK SHALE	1.3	58.0	WITH LIMESTONE FOSSILS
405.7			CARBONACEOUS SHALE	0.1	59.3	
405.6			COAL	1.9	59.4	
403.7			PYRITE	0.0	61.3	
403.7			COAL	0.3	61.3	
403.4			COAL	0.3	61.6	WITH PYRITE
403.1			COAL WITH SHALE	0.3	61.9	
402.8			CARBONACEOUS SHALE	0.4	62.2	
402.4			COAL	0.0	62.6	
402.4			BLACK SHALE	0.4	62.6	WITH COAL SPARS
401.9			BLACK SHALE	0.9	63.1	WITH COAL STREAKS

MAPID: 18505348000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 23

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.820992

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.418629

DATE COLLECTED: 10 / 7 / 1957

SURFACE ELEVATION (FT.): 466.0

LOGGED (FT.): 61.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO.

59FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
466.0			UNCONSOLIDATED	18.0	0.0	
448.0			COAL	1.2	18.0	
446.8			CLAYSTONE	3.6	19.2	GRAY
443.2			COAL	0.8	22.8	
442.5			CLAYSTONE	0.5	23.5	GRAY
442.0			CLAYSTONE	5.0	24.0	GRAY
437.0			GRAY SHALE	14.3	29.0	WITH LIMESTONE NODULES
422.7			SANDY SHALE	7.0	43.3	WITH BLACK CARBONACEOUS
415.7			DARK SHALE	2.8	50.3	
412.9			LIMESTONE	0.5	53.1	FOSSILS
412.4			BLACK SHALE	0.3	53.6	WITH LIMESTONE FOSSILS
412.2			COAL WITH SHALE	0.2	53.8	
412.0			COAL	0.9	54.0	
411.1			CARBONACEOUS SHALE	3.0	54.9	
408.1			BLACK SHALE	0.1	57.9	WITH PYRITE INTERBEDDED
408.0			BLACK SHALE	0.9	58.0	WITH COAL INTERBEDDED
407.1			DARK SHALE	2.1	58.9	W/ BLK CARBONACEOUS STREAKS & COAL SPARS

MAPID: 18505349000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820903 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.422284 DATE COLLECTED: 10 / 3 / 1957

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 24.5 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 60FR WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	14.8	0.0	
425.2			LAMINATED SANDSTONE	1.4	14.8	WITH BLACK CARBONACEOUS STREAKS;
423.7			DARK SHALE	1.2	16.3	
422.6			ARGILACEOUS SHALE	2.4	17.4	WITH SANDSTONE STREAKS
420.2			LIMESTONE	0.2	19.8	GRAY
420.0			ARGILACEOUS SHALE	1.4	20.0	WITH NUMEROUS LIMESTONE FOSSILS
418.6			LIMESTONE	0.2	21.4	GRAY
418.4			DARK SHALE	0.6	21.6	WITH NUMEROUS LS FOSSILS
417.8			MINE OPENING	2.3	22.2	

MAPID: 18505350000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.82705 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.415787 DATE COLLECTED: 10 / 21 / 1957

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 36.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 60A WELL TYPE: Coal Test

COMMENT: LOCATION IN SECTION MAY BE NWNENE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	13.0	0.0	
427.0			SHALE & SANDSTONE	2.0	13.0	
425.0			ARGILACEOUS SHALE	3.0	15.0	
422.0			DARK GRAY SHALE	13.0	18.0	WITH SANDSTONE STREAKS
409.0			ARGILACEOUS SHALE	0.2	31.0	
408.8			COAL	0.3	31.2	
408.6			COAL	0.2	31.4	WITH PYRITE
408.4			COAL	2.9	31.6	
405.5			COAL WITH SHALE	0.2	34.5	
405.3			CARBONACEOUS SHALE	0.6	34.7	
404.7			BLACK SHALE	0.2	35.3	WITH COAL INTERBEDDED
404.6			BLACK SHALE	0.6	35.4	WITH COAL INTERBEDDED

MAPID: 18505650000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.830698 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.414813 DATE COLLECTED: 2 / 25 / 1968

SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 1949.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
274.0	BOND	REEL	LIMESTONE	1.0	150.0
166.0	BOND	CARTHAGE	LIMESTONE	8.0	258.0
-124.0	PATOKA	MACOUPIN	LIMESTONE	1.8	548.0
-14.0	SHELBURN	WEST FRANKLIN	LIMESTONE	14.0	438.0
-229.0	SHELBURN	DANVILLE	COAL	3.3	653.0
-260.0	CARBONDALE	HERRIN	COAL	4.5	684.0
-320.0	CARBONDALE	BRIAR HILL	COAL	2.5	744.0
-342.0	CARBONDALE	SPRINGFIELD	COAL	4.5	766.0
-463.0	CARBONDALE	HOUCHIN CREEK	COAL	3.5	887.0
-478.0	CARBONDALE	SURVANT	COAL	2.0	902.0
-534.0	CARBONDALE	COLCHESTER	COAL	-	958.0
-545.0	CARBONDALE	DEKOVEN	COAL	2.0	969.0
-571.0	CARBONDALE	DAVIS	COAL	5.0	995.0
-602.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	5.0	1026.0

MAPID: 18505926000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 205' N line, 118' E line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.817689 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.422698 DATE COLLECTED: 12 / 5 / 1969

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 835.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER 2-FR WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	15.0	0.0	& CLAY
425.0			SANDSTONE	2.0	15.0	BROWN
423.0			GRAY SHALE	14.0	17.0	
409.0	MATTOON	FRIENDSVILLE	COAL	4.0	31.0	
405.0			GRAY SHALE	3.5	35.0	
401.5			LIMESTONE	6.3	38.5	
395.2			SANDY SHALE	3.6	44.8	
391.7			SANDSTONE	7.6	48.3	
384.1			COAL	1.9	55.9	
382.2			SANDY SHALE	2.0	57.8	MEDIUM
380.2			SANDSTONE	31.0	59.8	
349.2			SANDY SHALE	9.3	90.8	
340.0			SANDY SHALE	23.5	100.0	W/SANDSTONE STREAKS
316.5			SANDSTONE	17.4	123.5	
299.2			DARK SHALE	19.2	140.8	W/SANDSTONE STREAKS
280.0			SANDSTONE	3.0	160.0	
277.0			SANDY SHALE	12.9	163.0	W/SANDSTONE
264.1			SANDSTONE	10.1	175.9	
254.1			SANDY SHALE	4.5	185.9	W/SANDSTONE
249.6			SANDSTONE	20.7	190.4	
229.0			SANDY SHALE	17.0	211.0	W/SANDSTONE
212.0			SANDY SHALE	8.9	228.0	
203.1			SANDSTONE	37.1	236.9	
166.0			COAL	0.7	274.0	
165.3			SANDY SHALE	16.7	274.7	
148.6			SANDY SHALE	2.6	291.4	W/SANDSTONE
146.0			SANDSTONE	3.8	294.0	
142.2			GRAY SHALE	3.2	297.8	
139.0			COAL	0.8	301.0	
138.2			SANDY SHALE	4.2	301.8	
134.0			SANDY SHALE	48.7	306.0	W/SANDSTONE STREAKS
84.7			COAL	2.3	355.3	0.6 FEET UNACCOUNTED FOR ON ORIGINAL LOG
82.4			SANDY SHALE	7.7	357.6	W/SANDSTONE STREAKS
74.7			SANDSTONE	12.5	365.3	
62.2			SANDSTONE	25.0	377.8	W/SHALE STREAKS
37.2			COAL	1.0	402.8	
36.2			SANDY SHALE	33.2	403.8	W/SANDSTONE
3.0			LIMESTONE	5.8	437.0	
-2.8			SANDY SHALE	18.1	442.8	W/SANDSTONE

-20.9			LIMESTONE	4.1	460.9	
-25.0			SANDSTONE	165.0	465.0	W/SANDY GRAY SHALE
-190.0			SHALE	25.0	630.0	MULTI
-215.0			DARK SHALE	20.6	655.0	
-235.6	CARBONDALE	DANVILLE	COAL	2.0	675.6	
-237.6			LIGHT SHALE	3.9	677.6	
-241.5			SANDY SHALE	13.5	681.5	
-255.0			SANDSTONE	36.0	695.0	GRAY
-291.0			SANDY SHALE	6.0	731.0	W.SANDSTONE
-297.0			SILTY SHALE	1.1	737.0	
-298.1			SANDY SHALE	6.1	738.1	W/SANDSTONE
-304.2			SILTY SHALE	1.7	744.2	
-305.8			SANDY SHALE	26.8	745.8	W/SS & BROWN HARD SEAMS
-332.7			SILTY SHALE	49.9	772.7	W/SANDY BROWN HARD SEAMS
-382.5			DARK SHALE	0.3	822.5	
-382.8			COAL	1.8	822.8	
-384.5			DARK SHALE	0.7	824.5	W/COAL
-385.2			DARK SHALE	4.0	825.2	
-389.2			GRAY SHALE	0.8	829.2	
-390.0			LIMESTONE	0.7	830.0	
-390.6			GRAY SHALE	1.3	830.6	W/LIME NODULES
-391.9			SANDY SHALE	3.1	831.9	

MAPID: 185238A0009F **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW SW SE SE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.821796 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.40994 **DATE COLLECTED:** 0 / 0 / 1927
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 34.5 **LOG TYPE:**
SOURCE: **WELL TYPE:** Mine Shaft
COMMENT: KOLB MINE FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
419.0	MATTOON	FRIENDSVILLE	COAL	3.5	31.0

MAPID: 185238A0008F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: NE NE SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.822783 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.419053 DATE COLLECTED: 0 / 0 / 1927
SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 52.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: BLACK DIAMOND MINE - FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.0	MATTOON	FRIENDSVILLE	COAL	3.0	49.0	

MAPID: 185238A0010F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.81849 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.422332 DATE COLLECTED: 0 / 0 / 1942
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 27.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: WALLACE MINE - FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
419.0	MATTOON	FRIENDSVILLE	COAL	3.0	24.0	

MAPID: 185238A0013F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SW SE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.82121 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.409493 DATE COLLECTED: 0 / 0 / 1942
SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 35.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: MINE FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.0	MATTOON	FRIENDSVILLE	COAL	3.0	32.0	

MAPID: 185238A0011F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SE NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.81854 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.420504 DATE COLLECTED: 0 / 0 / 1942
SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 48.0 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: ANOTHER MINE FROM FIELD NOTES OF SCHOPF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.0	MATTOON	FRIENDSVILLE	COAL	3.0	45.0	

MAPID: 185238A0012F VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825906 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.413073 DATE COLLECTED: 0 / 0 / 1942
SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 43.7 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: SEITZ MINE FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
419.0	MATTOON	FRIENDSVILLE	COAL	3.7	40.0

MAPID: 18525945000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 360' S line, 330' W line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825804 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.420444 DATE COLLECTED:
SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2490.0 LOG TYPE:
SOURCE: HIGGINS, GILBERT A. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0
-233.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	671.0
-1454.0			LIMESTONE	-	1892.0
-1803.0		BASE BARLOW	LIMESTONE	-	2241.0
-2052.0	RENAULT	BASE RENAULT	LIMESTONE	-	2490.0

MAPID: 18526010000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 570' E line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.824109 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.422217 DATE COLLECTED:
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2490.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
3.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	434.0
-240.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	677.0
-1795.0		BASE BARLOW	LIMESTONE	-	2232.0
-2053.0	RENAULT	BASE RENAULT	LIMESTONE	-	2490.0

MAPID: 18526042000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 1236' N line, 31' W line of NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.831682 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.41956 DATE COLLECTED: 0 / 0 / 1973
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 1136.0 LOG TYPE: Survey Core Study
SOURCE: AMAX C. C. BB-40 WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.0			NO RECORD	747.0	0.0	
-327.0			SHALE	4.4	747.0	MED GRAY
-331.4	CARBONDALE	BRERETON	LIMESTONE	1.6	751.4	MED GRAY
-333.0			LIMESTONE	4.2	753.0	
-337.2	CARBONDALE	ANNA	SHALE	1.8	757.2	
-339.0	CARBONDALE	ANNA	SHALE	1.0	759.0	DK GRAY
-340.0	CARBONDALE	HERRIN	COAL	4.5	760.0	REMOVED BY CO.
-426.5			CLAYSTONE	1.5	846.5	GAP IN CORE; MED GRAY
-682.0			SANDSTONE	8.0	1102.0	
-690.0			SANDSTONE	8.0	1110.0	
-698.0			SANDSTONE	8.0	1118.0	
-706.0			SANDSTONE	1.3	1126.0	
-707.3			SHALE	0.9	1127.3	
-708.2	SPOON	SEELYVILLE	COAL	5.9	1128.2	REMOVED BY CO.
-714.0			CLAYSTONE	2.0	1134.0	DK GRAY

MAPID: 18526052000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: 664' N line, 330' W line of NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.82097 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.421363 DATE COLLECTED:
SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2506.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
9.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	442.0	
-236.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	687.0	
-1395.0			LIMESTONE	-	1846.0	
-1788.0		BASE BARLOW	LIMESTONE	-	2239.0	
-2055.0	RENAULT	BASE RENAULT	LIMESTONE	-	2506.0	

MAPID: 18527460000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.83543 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.416549 DATE COLLECTED: 12 / 26 / 1980

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 205.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 98004 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0			CLAY	22.0	0.0	
393.0	BOND		LIMESTONE	2.0	22.0	
391.0	BOND		SHALE	21.0	24.0	
370.0	BOND	WITT	COAL	1.0	45.0	DO NOT USE FOR RESOURCE CALCULATIONS
369.0	BOND		UNDERCLAY	2.0	46.0	
367.0	BOND		SHALE	17.0	48.0	
350.0	BOND		SANDY SHALE	30.0	65.0	
320.0	BOND	FLANNIGAN	COAL	1.0	95.0	DO NOT USE FOR RESOURCE CALCULATIONS
319.0	BOND		UNDERCLAY	1.0	96.0	
318.0	BOND		SHALE	15.0	97.0	
303.0	BOND		COAL	1.0	112.0	DO NOT USE FOR RESOURCE CALCULATIONS
302.0	BOND		SHALE	8.0	113.0	
294.0	BOND	MT. CARMEL	SANDSTONE	36.0	121.0	
258.0	BOND	MT. CARMEL	SANDY SHALE	23.0	157.0	
235.0	BOND	MT. CARMEL	SANDSTONE	9.0	180.0	
226.0			SANDY SHALE	16.0	189.0	

MAPID: 18527461000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 23

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.832962

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.422036

DATE COLLECTED: 11 / 30 / 1983

SURFACE ELEVATION (FT.): 425.0

LOGGED (FT.): 234.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 110625

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			CLAY	19.0	0.0	
406.0	MATTOON		GRAY SHALE	1.0	19.0	
405.0	MATTOON	FRIENDSVILLE	COAL	6.0	20.0	DO NOT USE FOR RESOURCE CALCULATIONS
399.0	BOND		GRAY SHALE	1.0	26.0	
398.0	BOND		LIMESTONE	2.0	27.0	
396.0	BOND		GRAY SHALE	3.0	29.0	
393.0	BOND		COAL	2.0	32.0	DO NOT USE FOR RESOURCE CALCULATIONS
391.0	BOND		GRAY SHALE	1.0	34.0	
390.0	BOND		SANDSTONE	11.0	35.0	
379.0	BOND		COAL	2.0	46.0	DO NOT USE FOR RESOURCE CALCULATIONS
377.0	BOND		GRAY SHALE	7.0	48.0	
370.0	BOND		SANDSTONE	17.0	55.0	
353.0	BOND		DARK SHALE	10.0	72.0	
343.0	BOND	WITT	COAL	1.0	82.0	DO NOT USE FOR RESOURCE CALCULATIONS
342.0	BOND		GRAY SHALE	17.0	83.0	
325.0	BOND		SANDSTONE	10.0	100.0	
315.0	BOND		GRAY SHALE	18.0	110.0	
297.0	BOND		DARK SHALE	30.0	128.0	
267.0	BOND	MT. CARMEL	SANDSTONE	35.0	158.0	
232.0	BOND	MT. CARMEL	GRAY SHALE	12.0	193.0	
220.0	BOND	MT. CARMEL	SANDSTONE	29.0	205.0	

MAPID: 18527462000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 23 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828137 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.422135 DATE COLLECTED: 3 / 6 / 1981

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 235.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 98601 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			CLAY	15.0	0.0	
410.0	MATTOON	FRIENDSVILLE	COAL	5.0	15.0	DO NOT USE FOR RESOURCE CALCULATIONS
405.0	BOND		DARK SHALE	5.0	20.0	
400.0	BOND		LIMESTONE	3.0	25.0	
397.0	BOND		DARK SHALE	12.0	28.0	
385.0	BOND		SANDSTONE	4.0	40.0	
381.0	BOND		COAL	2.0	44.0	DO NOT USE FOR RESOURCE CALCULATIONS
379.0	BOND		SANDY SHALE	28.0	46.0	
351.0	BOND		DARK SHALE	14.0	74.0	
337.0	BOND	WITT	COAL	6.0	88.0	DO NOT USE FOR RESOURCE CALCULATIONS
331.0	BOND		LIMESTONE	2.0	94.0	
329.0	BOND		GRAY SHALE	7.0	96.0	
322.0	BOND		SANDSTONE	12.0	103.0	
310.0	BOND		SANDY SHALE	28.0	115.0	
282.0	BOND	FLANNIGAN	COAL	4.0	143.0	DO NOT USE FOR RESOURCE CALCULATIONS
278.0	BOND		LIMESTONE	1.0	147.0	
277.0	BOND		DARK SHALE	3.0	148.0	
274.0	BOND	MT. CARMEL	SANDSTONE	44.0	151.0	
230.0	BOND	MT. CARMEL	GRAY SHALE	8.0	195.0	
222.0	BOND	MT. CARMEL	SANDSTONE	32.0	203.0	

MAPID: 18527616000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.820903 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.422284 **DATE COLLECTED:** 3 / 3 / 1987
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 255.0 **LOG TYPE:** Drillers Log
SOURCE: GEOLOGICAL AND WATER SURVEY 129583 **WELL TYPE:** Water Well
COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0			CLAY	20.0	0.0	
425.0	MATTOON		GRAY SHALE	7.0	20.0	
418.0	MATTOON		COAL	1.0	27.0	DO NOT USE FOR RESOURCE CALCULATIONS
417.0	MATTOON		GRAY SHALE	8.0	28.0	
409.0	MATTOON		LIMESTONE	2.0	36.0	
407.0	MATTOON	FRIENDSVILLE	COAL	6.0	38.0	DO NOT USE FOR RESOURCE CALCULATIONS
401.0	BOND		LIMESTONE	3.0	44.0	
398.0	BOND		DARK SHALE	16.0	47.0	
382.0	BOND		GRAY SHALE	45.0	63.0	
337.0	BOND		SANDSTONE	22.0	108.0	
315.0	BOND		DARK SHALE	30.0	130.0	
285.0	BOND		LIMESTONE	4.0	160.0	
281.0	BOND		DARK SHALE	36.0	164.0	
245.0	BOND		SANDY SHALE	16.0	200.0	
229.0	BOND	MT. CARMEL	SANDSTONE	39.0	216.0	

MAPID: 18501415000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.808874 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.414904 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 2530.0 **LOG TYPE:**
SOURCE: GILLIAM DRILLING **WELL TYPE:** Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-3.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0	
-251.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	684.0	
-			LIMESTONE	-		
-1819.0		BASE BARLOW	LIMESTONE	-	2252.0	
-2097.0	RENAULT	BASE RENAULT	LIMESTONE	-	2530.0	

MAPID: 18501415000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.808874 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.414904 DATE COLLECTED:

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 2650.0 LOG TYPE: Electric Log

SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-213.0	CARBONDALE	DANVILLE	COAL	-	646.0
-233.0	CARBONDALE	ANVIL ROCK	CALCAREOUS SANDSTONE	8.0	666.0
-251.0	CARBONDALE	HERRIN	COAL	4.0	684.0
-263.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	28.0	696.0
-307.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	4.0	766.0
-447.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 18501415000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.808874 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.414904 DATE COLLECTED: 10 / 10 / 1947

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 2650.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
268.0	BOND	REEL	LIMESTONE	1.0	165.0
263.0	BOND	MT. CARMEL	SANDSTONE	87.0	170.0
88.0	PATOKA	MACOUPIN	LIMESTONE	2.0	345.0
-2.0	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	435.0
-214.0	SHELBURN	DANVILLE	COAL	4.0	647.0
-251.0	CARBONDALE	HERRIN	COAL	4.5	684.0
-311.0	CARBONDALE	BRIAR HILL	COAL	1.0	744.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	4.0	766.0
-451.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	884.0
-529.0	CARBONDALE	COLCHESTER	COAL	-	962.0
-543.0	CARBONDALE	DEKOVEN	COAL	1.0	976.0
-563.0	CARBONDALE	DAVIS	COAL	5.8	996.0
-595.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1028.0

MAPID: 18501428000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 990' S line, 330' W line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816229 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.418665 DATE COLLECTED:
SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 2517.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
3.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	452.0
-243.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	698.0
-1345.0			LIMESTONE	-	1800.0
-1795.0		BASE BARLOW	LIMESTONE	-	2250.0
-2062.0	RENAULT	BASE RENAULT	LIMESTONE	-	2517.0

MAPID: 18501625000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 657' S line, 699' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810104 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.417647 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2227.0 LOG TYPE:
SOURCE: M & M DRILLING CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-5.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0
-246.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	677.0
-1351.0			LIMESTONE	-	1782.0
-1796.0		BASE BARLOW	LIMESTONE	-	2227.0

MAPID: 18501658000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806428 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.420366 DATE COLLECTED:
SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2228.0 LOG TYPE:
SOURCE: M & M DRILLING CORP WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	424.0
-248.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-1404.0			LIMESTONE	-	1826.0
-1806.0		BASE BARLOW	LIMESTONE	-	2228.0

MAPID: 18502253000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.801796 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.409244 DATE COLLECTED:
SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 2423.0 LOG TYPE:
SOURCE: SANDERS & FYE DRLG WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	344.0
-126.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	593.0
-			LIMESTONE	-	
-1685.0		BASE BARLOW	LIMESTONE	-	2152.0
-1956.0	RENAULT	BASE RENAULT	LIMESTONE	-	2423.0

MAPID: 18502332000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.799033 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.418438 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2070.0 LOG TYPE:
SOURCE: BEARD, FRANCIS L. WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	291.0
-120.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	533.0
-1242.0			LIMESTONE	-	1655.0
-1657.0		BASE BARLOW	LIMESTONE	-	2070.0

MAPID: 18504334000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.813714 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.416803 DATE COLLECTED:
SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 2516.0 LOG TYPE:
SOURCE: M & M DRILLING CORP WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-5.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-250.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-1356.0			LIMESTONE	-	1796.0
-1802.0		BASE BARLOW	LIMESTONE	-	2242.0
-2076.0	RENAULT	BASE RENAULT	LIMESTONE	-	2516.0

MAPID: 18504335000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.811301 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.420437 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2231.0 LOG TYPE:
SOURCE: BARKER, EARNEST I. WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	434.0
-236.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-1346.0			LIMESTONE	-	1780.0
-1797.0		BASE BARLOW	LIMESTONE	-	2231.0

MAPID: 18504336000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 330' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.798959 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.422126 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 1616.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
116.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	297.0
-120.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	533.0
-1203.0			LIMESTONE	-	1616.0

MAPID: 18505694000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.808831 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.416726 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2239.0 LOG TYPE:
SOURCE: M & M DRILLING CORP WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	431.0
-247.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0
-1359.0			LIMESTONE	-	1790.0
-1808.0		BASE BARLOW	LIMESTONE	-	2239.0

MAPID: 18526064000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 660' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.815171 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.415002 DATE COLLECTED:
SURFACE ELEVATION (FT.): 454.0 LOGGED (FT.): 2528.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	455.0
-244.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	698.0
-1366.0			LIMESTONE	-	1820.0
-1806.0		BASE BARLOW	LIMESTONE	-	2260.0
-2074.0	RENAULT	BASE RENAULT	LIMESTONE	-	2528.0

MAPID: 18526083000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: 400' N line, 400' W line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.815887 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.42215 DATE COLLECTED:
SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 2506.0 LOG TYPE:
SOURCE: SPARTAN PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	444.0
-	CARBONDALE	HERRIN	UNCLASSIFIED	-	
-1339.0			LIMESTONE	-	1790.0
-1787.0		BASE BARLOW	LIMESTONE	-	2238.0
-2055.0	RENAULT	BASE RENAULT	LIMESTONE	-	2506.0

MAPID: 18527550000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 24 QUARTERS/FOOTAGES: SW NE NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.811242 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.420442 DATE COLLECTED: 11 / 20 / 1985
 SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 246.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Water Well
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			CLAY	16.0	0.0	
424.0			SANDSTONE	2.0	16.0	
422.0			COAL	5.0	18.0	THICKNESS IS PROBABLY NOT ACCURATE
417.0			DARK SHALE	32.0	23.0	
385.0			SANDSTONE	31.0	55.0	
354.0			CALCAREOUS SANDSTONE	2.0	86.0	
352.0	BOND	WITT	COAL	2.0	88.0	THICKNESS IS PROBABLY NOT ACCURATE
350.0	BOND		LIMESTONE	1.0	90.0	
349.0	BOND		GRAY SHALE	16.0	91.0	
333.0	BOND		SANDSTONE	10.0	107.0	
323.0	BOND		DARK SHALE	15.0	117.0	
308.0	BOND	REEL	LIMESTONE	4.0	132.0	
304.0	BOND		DARK SHALE	2.0	136.0	
302.0	BOND		SANDSTONE	15.0	138.0	
287.0	BOND		SANDY SHALE	27.0	153.0	
260.0	BOND	MT. CARMEL	SANDSTONE	66.0	180.0	

MAPID: 18501548000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816534 GEOLOGIST: BRISTOL
 CONFIDENTIAL: N LATITUDE: 38.40227 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2606.0 LOG TYPE:
 SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
 COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
14.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	465.0	
-249.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	728.0	
-1391.0			LIMESTONE	-	1870.0	
-1852.0		BASE BARLOW	LIMESTONE	-	2331.0	
-2127.0	RENAULT	BASE RENAULT	LIMESTONE	-	2606.0	

MAPID: 18501548000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816534 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.40227 DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 2748.0 LOG TYPE: Electric Log

SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-219.0	CARBONDALE	DANVILLE	COAL	-	698.0
-235.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	714.0
-251.0	CARBONDALE	HERRIN	COAL	4.0	730.0
-265.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	12.0	744.0
-311.0	CARBONDALE	BRIAR HILL	COAL	-	790.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	4.0	812.0
-441.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 18502060000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810371 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.403069 DATE COLLECTED:

SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 2518.0 LOG TYPE:

SOURCE: DECK & HAYS WELL TYPE: Producer-Oil

COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1331.0			LIMESTONE	-	1805.0
-1856.0		BASE BARLOW	LIMESTONE	-	2330.0
-2044.0	RENAULT	BASE RENAULT	LIMESTONE	-	2518.0

MAPID: 18502793000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.804201 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.403859 DATE COLLECTED: 7 / 8 / 1954

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 2626.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
392.0	BOND	REEL	LIMESTONE	1.0	98.0
380.0	BOND	MT. CARMEL	SANDSTONE	127.0	110.0
195.0	PATOKA	MACOUPIN	LIMESTONE	1.0	295.0
106.0	SHELBURN	WEST FRANKLIN	LIMESTONE	17.0	384.0
-100.0	SHELBURN	DANVILLE	COAL	3.0	590.0
-137.0	CARBONDALE	HERRIN	COAL	3.8	627.0
-203.0	CARBONDALE	BRIAR HILL	COAL	3.0	693.0
-218.0	CARBONDALE	SPRINGFIELD	COAL	6.3	708.0
-343.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	833.0
-362.0	CARBONDALE	SURVANT	COAL	0.8	852.0
-423.0	CARBONDALE	COLCHESTER	COAL	-	913.0
-456.0	CARBONDALE	DAVIS	COAL	4.0	946.0
-483.0	TRADEWATER	CARRIER MILLS	SHALE	-	973.0

MAPID: 18502793000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.804201 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.403859 DATE COLLECTED:

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 2494.0 LOG TYPE:

SOURCE: NOAH PETROLEUM, THE WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
106.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	384.0
-136.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	626.0
-1290.0			LIMESTONE	-	1780.0
-1728.0		BASE BARLOW	LIMESTONE	-	2218.0
-2004.0	RENAULT	BASE RENAULT	LIMESTONE	-	2494.0

MAPID: 18505410000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: 990' N line, 400' W line of NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.801724 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.398389 DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 2488.0 LOG TYPE:

SOURCE: LITTLE EGYPT OIL CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
114.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	350.0	
-126.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	590.0	
-1300.0			LIMESTONE	-	1764.0	
-1733.0		BASE BARLOW	LIMESTONE	-	2197.0	
-2024.0	RENAULT	BASE RENAULT	LIMESTONE	-	2488.0	

MAPID: 18526423000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 25 QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.799478 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.398386 DATE COLLECTED: 11 / 8 / 1977

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	20.0	0.0	SOIL AND CLAY
430.0	BOND		GRAY SHALE	7.0	20.0	
423.0	BOND		LIMESTONE	3.0	27.0	
420.0	BOND		SANDSTONE	10.0	30.0	
410.0	BOND		DARK SHALE	45.0	40.0	
365.0	BOND	REEL	LIMESTONE	5.0	85.0	
360.0	BOND		GRAY SHALE	6.0	90.0	
354.0	BOND	FLANNIGAN	COAL	4.0	96.0	THICKNESS IS PROBABLY NOT ACCURATE
350.0	BOND		DARK SHALE	8.0	100.0	
342.0	BOND		LIMESTONE	7.0	108.0	
335.0	BOND	MT. CARMEL	SANDSTONE	31.0	115.0	

MAPID: 18526637000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 25

QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.806658

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.407521

DATE COLLECTED: 7 / 5 / 1979

SURFACE ELEVATION (FT.): 500.0

LOGGED (FT.): 295.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	22.0	0.0	SOIL AND CLAY
478.0	MATTOON		SANDSTONE	4.0	22.0	
474.0	MATTOON		GRAY SHALE	14.0	26.0	
460.0	MATTOON	FRIENDSVILLE	COAL	2.0	40.0	THICKNESS IS PROBABLY NOT ACCURATE
458.0	BOND		GRAY SHALE	4.0	42.0	
454.0	BOND		COAL	2.0	46.0	THICKNESS IS PROBABLY NOT ACCURATE
452.0	BOND		LIMESTONE	3.0	48.0	
449.0	BOND		GRAY SHALE	12.0	51.0	
437.0	BOND		DARK SHALE	12.0	63.0	
425.0	BOND		COAL	7.0	75.0	THICKNESS IS PROBABLY NOT ACCURATE
418.0	BOND		LIMESTONE	4.0	82.0	
414.0	BOND		DARK SHALE	12.0	86.0	
402.0	BOND		COAL	2.0	98.0	THICKNESS IS PROBABLY NOT ACCURATE
400.0	BOND		GRAY SHALE	10.0	100.0	
390.0	BOND		SANDY SHALE	10.0	110.0	
380.0	BOND		SANDSTONE	26.0	120.0	
354.0	BOND		DARK SHALE	10.0	146.0	
344.0	BOND		LIMESTONE	6.0	156.0	
338.0	BOND		SANDY SHALE	16.0	162.0	
322.0	BOND		DARK SHALE	62.0	178.0	
260.0	BOND	MT. CARMEL	SANDSTONE	55.0	240.0	

MAPID: 18527511000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 25

QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80439

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.394852

DATE COLLECTED: 7 / 10 / 1985

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 300.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	17.0	0.0	
433.0	BOND	WITT	COAL	2.0	17.0	THICKNESS IS PROBABLY NOT ACCURATE
431.0	BOND		LIMESTONE	1.0	19.0	
430.0	BOND		GRAY SHALE	6.0	20.0	
424.0	BOND		LIMESTONE	2.0	26.0	
422.0	BOND		SANDSTONE	5.0	28.0	
417.0	BOND		GRAY SHALE	3.0	33.0	
414.0	BOND		SANDSTONE	6.0	36.0	
408.0	BOND		GRAY SHALE	4.0	42.0	
404.0	BOND		DARK SHALE	51.0	46.0	
353.0	BOND		COAL	2.0	97.0	
351.0	BOND	REEL	LIMESTONE	9.0	99.0	THICKNESS IS PROBABLY NOT ACCURATE
342.0	BOND	FLANNIGAN	COAL	12.0	108.0	
330.0	BOND		LIMESTONE	1.0	120.0	
329.0	BOND		GRAY SHALE	5.0	121.0	
324.0	BOND		SANDSTONE	42.0	126.0	
282.0			LIMESTONE	2.0	168.0	
280.0			GRAY SHALE	15.0	170.0	
265.0			SANDSTONE	7.0	185.0	
258.0			GRAY SHALE	8.0	192.0	
250.0			SANDY SHALE	58.0	200.0	
192.0			GRAY SHALE	10.0	258.0	
182.0			SANDY SHALE	12.0	268.0	
170.0			GRAY SHALE	20.0	280.0	

MAPID: 18527582000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 25

QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80421

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.407477

DATE COLLECTED: 6 / 19 / 1986

SURFACE ELEVATION (FT.): 500.0

LOGGED (FT.): 286.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			CLAY	15.0	0.0	
485.0			LIMESTONE	2.0	15.0	
483.0			SANDSTONE	1.0	17.0	
482.0			GRAY SHALE	22.0	18.0	
460.0			COAL	1.0	40.0	THICKNESS IS PROBABLY NOT ACCURATE
459.0			GRAY SHALE	35.0	41.0	
424.0			COAL	5.0	76.0	THICKNESS IS PROBABLY NOT ACCURATE
419.0			DARK SHALE	3.0	81.0	
416.0			LIMESTONE	2.0	84.0	
414.0			GRAY SHALE	5.0	86.0	
409.0			COAL	2.0	91.0	THICKNESS IS PROBABLY NOT ACCURATE
407.0			GRAY SHALE	18.0	93.0	
389.0			LIMESTONE	2.0	111.0	
387.0			SANDSTONE	31.0	113.0	
356.0			GRAY SHALE	12.0	144.0	
344.0			LIMESTONE	6.0	156.0	
338.0			SANDY SHALE	23.0	162.0	
315.0			GRAY SHALE	15.0	185.0	
300.0			COAL	2.0	200.0	THICKNESS IS PROBABLY NOT ACCURATE
298.0			DARK SHALE	8.0	202.0	
290.0			LIMESTONE	1.0	210.0	
289.0			GRAY SHALE	29.0	211.0	
260.0			SANDY SHALE	15.0	240.0	
245.0			SANDSTONE	31.0	255.0	

MAPID: 18527622000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 25

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.809183

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.40034

DATE COLLECTED: 5 / 13 / 1987

SURFACE ELEVATION (FT.): 485.0

LOGGED (FT.): 305.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			CLAY	33.0	0.0	
452.0			LIMESTONE	5.0	33.0	
447.0			GRAY SHALE	9.0	38.0	
438.0			SANDSTONE	3.0	47.0	
435.0			GRAY SHALE	39.0	50.0	
396.0			SANDSTONE	6.0	89.0	
390.0			GRAY SHALE	10.0	95.0	
380.0			COAL	9.0	105.0	THICKNESS IS PROBABLY NOT ACCURATE
371.0			LIMESTONE	6.0	114.0	
365.0			SANDY SHALE	18.0	120.0	
347.0			SHALE	12.0	138.0	
335.0			SANDSTONE	24.0	150.0	
311.0	BOND	WITT	COAL	8.0	174.0	THICKNESS IS PROBABLY NOT ACCURATE
303.0	BOND		LIMESTONE	7.0	182.0	
296.0	BOND		SANDY SHALE	81.0	189.0	
215.0	BOND	MT. CARMEL	SANDSTONE	20.0	270.0	
195.0	BOND	MT. CARMEL	SANDSTONE	15.0	290.0	

MAPID: 18500049000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 26

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

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.835636

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.402006

DATE COLLECTED:

SURFACE ELEVATION (FT.): 417.0

LOGGED (FT.): 2503.0

LOG TYPE:

SOURCE: TIDEWATER OIL CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-9.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	426.0	
-258.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0	
-1388.0			LIMESTONE	-	1805.0	
-1872.0		BASE BARLOW	LIMESTONE	-	2289.0	
-2086.0	RENAULT	BASE RENAULT	LIMESTONE	-	2503.0	

MAPID: 18500090000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835561 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.407483 DATE COLLECTED:
SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 2520.0 LOG TYPE:
SOURCE: GILLIAM DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-4.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	420.0
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	671.0
-1396.0			LIMESTONE	-	1812.0
-1864.0		BASE BARLOW	LIMESTONE	-	2280.0
-2104.0	RENAULT	BASE RENAULT	LIMESTONE	-	2520.0

MAPID: 18500982000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 990' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.833415 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.394747 DATE COLLECTED:
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2548.0 LOG TYPE:
SOURCE: YINGLING SAMUEL C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-8.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-263.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	700.0
-1389.0			LIMESTONE	-	1826.0
-1863.0		BASE BARLOW	LIMESTONE	-	2300.0
-2111.0	RENAULT	BASE RENAULT	LIMESTONE	-	2548.0

MAPID: 18501544000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821333 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.398604 DATE COLLECTED:
SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 2627.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
4.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	496.0
-252.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	752.0
-1376.0			LIMESTONE	-	1876.0
-1835.0		BASE BARLOW	LIMESTONE	-	2335.0
-2127.0	RENAULT	BASE RENAULT	LIMESTONE	-	2627.0

MAPID: 18501576000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 355' S line, 330' W line of SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821309 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.402301 DATE COLLECTED:
SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 2294.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	454.0
-234.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	700.0
-1365.0			LIMESTONE	-	1831.0
-1828.0		BASE BARLOW	LIMESTONE	-	2294.0

MAPID: 18501613000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.826099 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.400335 DATE COLLECTED:
SURFACE ELEVATION (FT.): 487.0 LOGGED (FT.): 2303.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
13.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	474.0
-236.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	723.0
-1353.0			LIMESTONE	-	1840.0
-1816.0		BASE BARLOW	LIMESTONE	-	2303.0

MAPID: 18501626000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.826052 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.405791 DATE COLLECTED:
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2520.0 LOG TYPE:
SOURCE: ROSSI, PAUL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	429.0
-241.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-1368.0			LIMESTONE	-	1797.0
-1823.0		BASE BARLOW	LIMESTONE	-	2252.0
-2091.0	RENAULT	BASE RENAULT	LIMESTONE	-	2520.0

MAPID: 18501659000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823602 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.405827 DATE COLLECTED:
SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 2531.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
14.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	426.0
-230.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-1355.0			LIMESTONE	-	1795.0
-1826.0		BASE BARLOW	LIMESTONE	-	2266.0
-2091.0	RENAULT	BASE RENAULT	LIMESTONE	-	2531.0

MAPID: 18501683000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.826066 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.403971 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2531.0 LOG TYPE:
SOURCE: LOHMANN-JOHNSON DRLG. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	427.0
-241.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0
-1364.0			LIMESTONE	-	1798.0
-1822.0		BASE BARLOW	LIMESTONE	-	2256.0
-2097.0	RENAULT	BASE RENAULT	LIMESTONE	-	2531.0

MAPID: 18502132000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.826084 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.402158 DATE COLLECTED:
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 2274.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	442.0
-232.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	684.0
-1358.0			LIMESTONE	-	1810.0
-1822.0		BASE BARLOW	LIMESTONE	-	2274.0

MAPID: 18502132000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.826084 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.402158 DATE COLLECTED:

SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 2290.0 LOG TYPE: Electric Log

SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-202.0	CARBONDALE	DANVILLE	COAL	-	658.0
-212.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	668.0
-230.0	CARBONDALE	HERRIN	COAL	4.0	686.0
-240.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	22.0	696.0
-296.0	CARBONDALE	BRIAR HILL	COAL	-	752.0
-302.0	CARBONDALE	CANTON	CALCAREOUS SILTSTONE	6.0	758.0
-318.0	CARBONDALE	SPRINGFIELD	COAL	4.0	774.0
-422.0	CARBONDALE	HOUCHIN CREEK	COAL	-	878.0

MAPID: 18502794000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.830842 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.396618 DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 2301.0 LOG TYPE:

SOURCE: MERIMAC OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	464.0
-253.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	717.0
-1380.0			LIMESTONE	-	1844.0
-1837.0		BASE BARLOW	LIMESTONE	-	2301.0

MAPID: 18504337000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823624 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.402196 DATE COLLECTED: 9 / 30 / 1948
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 2296.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
244.0	BOND	MT. CARMEL	SANDSTONE	50.0	208.0
104.0	PATOKA	MACOUPIN	LIMESTONE	1.0	348.0
-5.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	457.0
-201.0	SHELBURN	DANVILLE	COAL	3.5	653.0
-231.0	CARBONDALE	HERRIN	COAL	4.0	683.0
-300.0	CARBONDALE	BRIAR HILL	COAL	1.0	752.0
-318.0	CARBONDALE	SPRINGFIELD	COAL	5.0	770.0
-427.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	879.0
-442.0	CARBONDALE	SURVANT	COAL	1.2	894.0
-498.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-558.0	CARBONDALE	DAVIS	COAL	3.8	1010.0
-586.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1038.0

MAPID: 18504337000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823624 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.402196 DATE COLLECTED:
SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 2274.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
21.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0
-225.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	682.0
-1356.0			LIMESTONE	-	1813.0
-1817.0		BASE BARLOW	LIMESTONE	-	2274.0

MAPID: 18504338000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 405' W line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.825821 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.402159 DATE COLLECTED:
SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 2552.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-235.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-1358.0			LIMESTONE	-	1808.0
-1821.0		BASE BARLOW	LIMESTONE	-	2271.0
-2102.0	RENAULT	BASE RENAULT	LIMESTONE	-	2552.0

MAPID: 18504339000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823712 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.400372 DATE COLLECTED:
SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 2282.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	454.0
-236.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	700.0
-1358.0			LIMESTONE	-	1822.0
-1818.0		BASE BARLOW	LIMESTONE	-	2282.0

MAPID: 18504340000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821322 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.40041 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 2313.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	482.0
-230.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	722.0
-1370.0			LIMESTONE	-	1862.0
-1821.0		BASE BARLOW	LIMESTONE	-	2313.0

MAPID: 18504341000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828448 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.396658 DATE COLLECTED:
SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 2597.0 LOG TYPE:
SOURCE: FIRST NAT'L. PETRO., THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	477.0
-251.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	728.0
-1378.0			LIMESTONE	-	1855.0
-1839.0		BASE BARLOW	LIMESTONE	-	2316.0
-2120.0	RENAULT	BASE RENAULT	LIMESTONE	-	2597.0

MAPID: 18504343000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835682 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.398353 DATE COLLECTED:
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 2529.0 LOG TYPE:
SOURCE: BRUBECK, W. E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	416.0
-248.0	CARBONDALE	BRERETON	LIMESTONE	-	663.0
-248.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	663.0
-1380.0			LIMESTONE	-	1795.0
-1869.0		BASE BARLOW	LIMESTONE	-	2284.0
-2114.0	RENAULT	BASE RENAULT	LIMESTONE	-	2529.0

MAPID: 18505334000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818878
CONFIDENTIAL: N LATITUDE: 38.40408
SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 41.0
SOURCE: HANNA COAL CO. 45FR
COMMENT: SEE COAL SECTION MAP #2-6-93L

QUARTERS/FOOTAGES: NE SE NE
GEOLOGIST: HOKE
DATE COLLECTED: 7 / 25 / 1957
LOG TYPE: Drillers Log
WELL TYPE: Coal Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			UNCONSOLIDATED	23.0	0.0	
442.0			SHALEY CLAYSTONE	8.3	23.0	GRA
433.7			FOSSILIFEROUS LIMESTONE	0.3	31.3	GRAY
433.4			FOSSILIFEROUS SHALE	0.1	31.6	3
433.3			SHALY COAL	3.8	31.7	WITH PYRITE STREAKS
429.6			DARK SHALE	0.8	35.4	WITH COAL STREAKS
428.7			SANDY CLAYSTONE	3.2	36.3	DK GRAY
425.6			FOSSILIFEROUS SHALE	0.6	39.4	
425.0			FOSSILIFEROUS LIMESTONE	1.0	40.0	GRAY

MAPID: 18525994000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.830797
CONFIDENTIAL: N LATITUDE: 38.407544
SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2512.0
SOURCE: SO. IL OIL PROD., INC.
COMMENT:

QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW
GEOLOGIST: BRISTOL
DATE COLLECTED:
LOG TYPE:
WELL TYPE: Producer-Oil

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	425.0	
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0	
-1365.0			LIMESTONE	-	1788.0	
-1819.0		BASE BARLOW	LIMESTONE	-	2242.0	
-2089.0	RENAULT	BASE RENAULT	LIMESTONE	-	2512.0	

MAPID: 18526069000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 1700' S line, 990' E line of NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.830682 GEOLOGIST: BRISTOL
 CONFIDENTIAL: N LATITUDE: 38.405864 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2504.0 LOG TYPE:
 SOURCE: HOCKING, ANDY G. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	423.0	
-247.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0	
-1368.0			LIMESTONE	-	1791.0	
-1821.0		BASE BARLOW	LIMESTONE	-	2244.0	
-2081.0	RENAULT	BASE RENAULT	LIMESTONE	-	2504.0	

MAPID: 18526425000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.828436 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.402117 DATE COLLECTED: 8 / 3 / 1976
 SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 278.0 LOG TYPE: Drillers Log
 SOURCE:
 COMMENT: NO ELEVATION GIVEN IN LOG WELL TYPE: Water Well

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	15.0	0.0	SAND AND CLAY
445.0	MATTOON		SANDSTONE	12.0	15.0	
433.0	MATTOON	FRIENDSVILLE	COAL	4.0	27.0	THICKNESS IS PROBABLY NOT ACCURATE
429.0	BOND		GRAY SHALE	9.0	31.0	
420.0	BOND		DARK SHALE	5.0	40.0	
415.0	BOND		LIMESTONE	5.0	45.0	
410.0	BOND		COAL	4.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
406.0	BOND		DARK SHALE	3.0	54.0	
403.0	BOND		LIMESTONE	6.0	57.0	
397.0	BOND		DARK SHALE	12.0	63.0	
385.0	BOND		GRAY SHALE	5.0	75.0	
380.0	BOND		SANDSTONE	10.0	80.0	
370.0	BOND		SHALE	37.0	90.0	
333.0	BOND		SHALE	18.0	127.0	
315.0	BOND		LIMESTONE	3.0	145.0	
312.0	BOND		GRAY SHALE	9.0	148.0	
303.0	BOND		DARK SHALE	42.0	157.0	
261.0	BOND	REEL	LIMESTONE	4.0	199.0	
257.0	BOND		GRAY SHALE	50.0	203.0	
207.0	BOND	MT. CARMEL	SANDSTONE	25.0	253.0	

MAPID: 18526426000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.818904 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.39864 DATE COLLECTED: 5 / 29 / 1978

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
490.0			CLAY	15.0	0.0	
475.0	MATTOON		GRAY SHALE	7.0	15.0	
468.0	MATTOON		LIMESTONE	3.0	22.0	
465.0	MATTOON	FRIENDSVILLE	COAL	3.0	25.0	THICKNESS IS PROBABLY NOT ACCURATE
462.0	BOND		LIMESTONE	7.0	28.0	
455.0	BOND		COAL	6.0	35.0	THICKNESS IS PROBABLY NOT ACCURATE
449.0	BOND		LIMESTONE	3.0	41.0	
446.0	BOND		DARK SHALE	6.0	44.0	
440.0	BOND		GRAY SHALE	10.0	50.0	
430.0	BOND		SANDSTONE	12.0	60.0	
418.0	BOND		DARK SHALE	6.0	72.0	
412.0	BOND		LIMESTONE	2.0	78.0	
410.0	BOND		COAL	8.0	80.0	THICKNESS IS PROBABLY NOT ACCURATE
402.0	BOND		LIMESTONE	4.0	88.0	
398.0	BOND		COAL	8.0	92.0	THICKNESS IS PROBABLY NOT ACCURATE
390.0	BOND		GRAY SHALE	23.0	100.0	
367.0	BOND		DARK SHALE	7.0	123.0	
360.0	BOND		SANDSTONE	18.0	130.0	
342.0	BOND	MT. CARMEL	DARK SHALE	5.0	148.0	
337.0	BOND		LIMESTONE	10.0	153.0	
327.0	BOND		GRAY SHALE	18.0	163.0	
309.0	BOND		DARK SHALE	29.0	181.0	
280.0	BOND		SANDY SHALE	10.0	210.0	
270.0	BOND		DARK SHALE	50.0	220.0	
220.0	BOND		SANDSTONE	30.0	270.0	

MAPID: 18526427000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 26

QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.823688

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.398561

DATE COLLECTED: 6 / 27 / 1978

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 300.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			UNCONSOLIDATED	15.0	0.0	
465.0	MATTOON		SANDSTONE	4.0	15.0	
461.0	MATTOON		LIMESTONE	5.0	19.0	
456.0	MATTOON	FRIENDSVILLE	COAL	3.0	24.0	THICKNESS IS PROBABLY NOT ACCURATE
453.0	BOND		LIMESTONE	2.0	27.0	
451.0	BOND		COAL	6.0	29.0	THICKNESS IS PROBABLY NOT ACCURATE
445.0	BOND		LIMESTONE	3.0	35.0	
442.0	BOND		COAL	2.0	38.0	THICKNESS IS PROBABLY NOT ACCURATE
440.0	BOND		DARK SHALE	10.0	40.0	
430.0	BOND		GRAY SHALE	18.0	50.0	
412.0	BOND		DARK SHALE	22.0	68.0	
390.0	BOND		COAL	3.0	90.0	THICKNESS IS PROBABLY NOT ACCURATE
387.0	BOND		LIMESTONE	1.0	93.0	
386.0	BOND		DARK SHALE	11.0	94.0	
375.0	BOND		SANDY SHALE	40.0	105.0	
335.0	BOND		LIMESTONE	15.0	145.0	
320.0	BOND		DARK SHALE	90.0	160.0	
230.0	BOND	MT. CARMEL	SANDSTONE	50.0	250.0	

MAPID: 18527202000C VERSION: 1

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835707 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.396534 DATE COLLECTED: 8 / 17 / 1983

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 0.0 LOG TYPE: Nuclear Log

SOURCE: JOHN L AULVIN WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
87.0	PATOKA	MACOUPIN	LIMESTONE	1.0	328.0
-3.0	SHELBURN	WEST FRANKLIN	LIMESTONE	16.0	418.0
-223.0	SHELBURN	DANVILLE	COAL	3.8	638.0
-251.0	CARBONDALE	HERRIN	COAL	4.5	666.0
-336.0	CARBONDALE	BRIAR HILL	COAL	2.0	751.0
-351.0	CARBONDALE	SPRINGFIELD	COAL	7.0	766.0
-435.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	850.0
-533.0	CARBONDALE	COLCHESTER	COAL	-	948.0
-543.0	CARBONDALE	DEKOVEN	COAL	2.0	958.0
-575.0	CARBONDALE	DAVIS	COAL	3.0	990.0
-584.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	3.0	999.0

MAPID: 18527468000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 26

QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.828487

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.396659

DATE COLLECTED: 9 / 16 / 1982

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 330.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	22.0	0.0	
458.0	MATTOON		DARK SHALE	6.0	22.0	
452.0	MATTOON		LIMESTONE	4.0	28.0	
448.0	MATTOON		SANDSTONE	3.0	32.0	
445.0	MATTOON		DARK SHALE	20.0	35.0	
425.0	MATTOON	FRIENDSVILLE	COAL	3.0	55.0	THICKNESS IS PROBABLY NOT ACCURATE
422.0	BOND		LIMESTONE	4.0	58.0	
418.0	BOND		DARK SHALE	31.0	62.0	
387.0	BOND		COAL	4.0	93.0	THICKNESS IS PROBABLY NOT ACCURATE
383.0	BOND		DARK SHALE	3.0	97.0	
380.0	BOND		LIMESTONE	7.0	100.0	
373.0	BOND		GRAY SHALE	13.0	107.0	
360.0	BOND		SANDSTONE	30.0	120.0	
330.0	BOND		GRAY SHALE	12.0	150.0	
318.0	BOND		SANDSTONE	30.0	162.0	
288.0	BOND		GRAY SHALE	28.0	192.0	
260.0	BOND		DARK SHALE	20.0	220.0	
240.0	BOND		SANDY SHALE	30.0	240.0	
210.0	BOND		DARK SHALE	30.0	270.0	
180.0	BOND	MT. CARMEL	SANDSTONE	30.0	300.0	

MAPID: 18527469000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 26

QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.823688

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.398561

DATE COLLECTED: 1 / 5 / 1983

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 279.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	17.0	0.0	
463.0	MATTOON		DARK SHALE	3.0	17.0	
460.0	MATTOON	FRIENDSVILLE	COAL	3.0	20.0	THICKNESS IS PROBABLY NOT ACCURATE
457.0	BOND		DARK SHALE	36.0	23.0	
421.0	BOND		COAL	14.0	59.0	THICKNESS IS PROBABLY NOT ACCURATE
407.0	BOND		LIMESTONE	7.0	73.0	
400.0	BOND		COAL	3.0	80.0	THICKNESS IS PROBABLY NOT ACCURATE
397.0	BOND		LIMESTONE	2.0	83.0	
395.0	BOND		GRAY SHALE	20.0	85.0	
375.0	BOND		SANDSTONE	15.0	105.0	
360.0	BOND		GRAY SHALE	15.0	120.0	
345.0	BOND		SANDSTONE	13.0	135.0	
332.0	BOND		DARK SHALE	47.0	148.0	
285.0	BOND		GRAY SHALE	45.0	195.0	
240.0	BOND	MT. CARMEL	SANDSTONE	39.0	240.0	

MAPID: 18527607000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 26 QUARTERS/FOOTAGES: SE NW SE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823688 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.398561 DATE COLLECTED: 12 / 30 / 1986
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 290.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			CLAY	11.0	0.0	
469.0			SANDSTONE	5.0	11.0	
464.0			SANDSTONE	30.0	16.0	
434.0			DARK SHALE	19.0	46.0	
415.0			LIMESTONE	3.0	65.0	
412.0			DARK SHALE	43.0	68.0	
369.0			SANDSTONE	23.0	111.0	
346.0			GRAY SHALE	11.0	134.0	
335.0	BOND	WITT	COAL	2.0	145.0	THICKNESS IS PROBABLY NOT ACCURATE
333.0	BOND		GRAY SHALE	9.0	147.0	
324.0	BOND		LIMESTONE	2.0	156.0	
322.0	BOND		GRAY SHALE	12.0	158.0	
310.0	BOND		SANDSTONE	5.0	170.0	
305.0	BOND		GRAY SHALE	25.0	175.0	
280.0	BOND	FLANNIGAN	COAL	3.0	200.0	THICKNESS IS PROBABLY NOT ACCURATE
277.0	BOND		DARK SHALE	3.0	203.0	
274.0	BOND		LIMESTONE	2.0	206.0	
272.0	BOND		GRAY SHALE	32.0	208.0	
240.0	BOND		SANDY SHALE	15.0	240.0	
225.0	BOND	MT. CARMEL	SANDSTONE	35.0	255.0	

MAPID: 18500723001M VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: SW SW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854389 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.402068 DATE COLLECTED:
SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 49.7 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: MAUD STATION MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.0	MATTOON	FRIENDSVILLE	COAL	3.7	46.0	

MAPID: 18502115000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 990' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.847368 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.403864 DATE COLLECTED:

SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2480.0 LOG TYPE: Electric Log

SOURCE: WASSON OF OHIO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-229.0	CARBONDALE	DANVILLE	COAL	-	642.0
-243.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	656.0
-247.0	CARBONDALE	ANVIL ROCK	CALCAREOUS SILTSTONE	6.0	660.0
-261.0	CARBONDALE	HERRIN	COAL	3.0	674.0
-327.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-341.0	CARBONDALE	SPRINGFIELD	COAL	5.0	754.0
-449.0	CARBONDALE	HOUCHIN CREEK	COAL	-	862.0

MAPID: 18502616000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.842696 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.39836 DATE COLLECTED: 11 / 6 / 1957

SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 1953.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
260.0	BOND	REEL	LIMESTONE	1.5	150.0
220.0	BOND	MT. CARMEL	SANDSTONE	70.0	190.0
75.0	PATOKA	MACOUPIN	LIMESTONE	1.0	335.0
-15.0	SHELBURN	WEST FRANKLIN	LIMESTONE	15.0	425.0
-230.0	SHELBURN	DANVILLE	COAL	2.8	640.0
-260.0	CARBONDALE	HERRIN	COAL	3.5	670.0
-332.0	CARBONDALE	BRIAR HILL	COAL	2.0	742.0
-349.0	CARBONDALE	SPRINGFIELD	COAL	5.0	759.0
-455.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	865.0
-470.0	CARBONDALE	SURVANT	COAL	1.0	880.0
-540.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-580.0	CARBONDALE	DAVIS	COAL	4.0	990.0
-610.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1020.0

MAPID: 185238A0015F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854476 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.396585 DATE COLLECTED: 0 / 0 / 1927

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 49.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: OLD MINE AT MAUD FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.0	MATTOON	FRIENDSVILLE	COAL	4.0	45.0	

MAPID: 185238A0014F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854389 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.402068 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 44.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: MAUD STATION MINE FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.0	MATTOON	FRIENDSVILLE	COAL	3.0	41.0	

MAPID: 18527463000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.854305

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.40755

DATE COLLECTED: 9 / 6 / 1984

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 299.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			CLAY	16.0	0.0	
414.0			BOULDER	3.0	16.0	
411.0			SANDY CLAY	2.0	19.0	
409.0	MATTOON		SANDY SHALE	8.0	21.0	
401.0	MATTOON		GRAY SHALE	10.0	29.0	
391.0	MATTOON	FRIENDSVILLE	COAL	1.0	39.0	THICKNESS IS PROBABLY NOT ACCURATE
390.0	MATTOON		GRAY SHALE	5.0	40.0	
385.0	MATTOON	FRIENDSVILLE	COAL	5.0	45.0	THICKNESS IS PROBABLY NOT ACCURATE
380.0	BOND		GRAY SHALE	10.0	50.0	
370.0	BOND		SANDY SHALE	13.0	60.0	
357.0	BOND		GRAY SHALE	5.0	73.0	
352.0	BOND		COAL	10.0	78.0	THICKNESS IS PROBABLY NOT ACCURATE
342.0	BOND		DARK SHALE	2.0	88.0	
340.0	BOND		LIMESTONE	3.0	90.0	
337.0	BOND		GRAY SHALE	7.0	93.0	
330.0	BOND		DARK SHALE	2.0	100.0	
328.0	BOND		COAL	1.0	102.0	THICKNESS IS PROBABLY NOT ACCURATE
327.0	BOND		GRAY SHALE	4.0	103.0	
323.0	BOND		SANDSTONE	33.0	107.0	
290.0	BOND		GRAY SHALE	20.0	140.0	
270.0	BOND		SANDSTONE	6.0	160.0	
264.0	BOND		GRAY SHALE	7.0	166.0	
257.0	BOND		SANDY SHALE	9.0	173.0	
248.0	BOND		GRAY SHALE	30.0	182.0	
218.0	BOND	REEL	LIMESTONE	2.0	212.0	
216.0	BOND		GRAY SHALE	21.0	214.0	
195.0	BOND		SANDY SHALE	15.0	235.0	
180.0	BOND		DARK SHALE	15.0	250.0	
165.0	BOND	MT. CARMEL	SANDSTONE	34.0	265.0	

MAPID: 18527470000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 27 QUARTERS/FOOTAGES: 740' S line, 300' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.847213 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.403164 DATE COLLECTED: 9 / 16 / 1980

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			CLAY	19.0	0.0	
411.0			SANDY SHALE	15.0	19.0	
396.0			DARK SHALE	80.0	34.0	
316.0			COAL	5.0	114.0	THICKNESS IS PROBABLY NOT ACCURATE
311.0	BOND		SANDY SHALE	57.0	119.0	
254.0	BOND		SANDSTONE	11.0	176.0	
243.0	BOND		SANDY SHALE	68.0	187.0	
175.0	BOND	MT. CARMEL	SANDSTONE	43.0	255.0	
132.0			DARK SHALE	2.0	298.0	

MAPID: 18501520000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.868559 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.400317 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2738.0 LOG TYPE: Electric Log

SOURCE: LAMBERT DAVIS WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	DANVILLE	COAL	-	698.0	
-	CARBONDALE	BANKSTON FORK	LIMESTONE	-	710.0	
-	CARBONDALE	HERRIN	COAL	4.0	730.0	
-	CARBONDALE	VERMILIONVILLE	SILTSTONE & BLACK SHALES	54.0	746.0	
-	CARBONDALE	BRIAR HILL	COAL	-	800.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	818.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	926.0	

MAPID: 18501523000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.863774 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.407627 DATE COLLECTED: 7 / 13 / 1948

SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 2817.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
391.0	MATTOON	FRIENDSVILLE	COAL	1.3	92.0
281.0	BOND	WITT	COAL	1.3	202.0
223.0	BOND	REEL	LIMESTONE	3.8	260.0
171.0	BOND	MT. CARMEL	SANDSTONE	53.0	312.0
31.0	PATOKA	MACOUPIN	LIMESTONE	2.0	452.0
-61.0	SHELBURN	WEST FRANKLIN	LIMESTONE	18.0	544.0
-289.0	SHELBURN	DANVILLE	COAL	3.7	772.0
-323.0	CARBONDALE	HERRIN	COAL	5.7	806.0
-389.0	CARBONDALE	BRIAR HILL	COAL	2.7	872.0
-415.0	CARBONDALE	SPRINGFIELD	COAL	7.7	898.0
-501.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	984.0
-582.0	CARBONDALE	COLCHESTER	COAL	-	1065.0
-612.0	CARBONDALE	DAVIS	COAL	6.0	1095.0
-642.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1125.0

MAPID: 18505721000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 28 QUARTERS/FOOTAGES: 1500' S line, 525' E line of SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.857472 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.397995 DATE COLLECTED: 0 / 0 / 1968

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 320.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.0			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
405.0	MATTOON		SANDSTONE	8.0	15.0	
397.0	MATTOON		GRAY SHALE	17.0	23.0	
380.0	MATTOON		SANDSTONE	15.0	40.0	
365.0	MATTOON		DARK SHALE	15.0	55.0	
350.0	MATTOON		GRAY SHALE	5.0	70.0	
345.0	MATTOON		DARK SHALE	5.0	75.0	
340.0	MATTOON	KEENSBURG	COAL	2.0	80.0	THICKNESS IS PROBABLY NOT ACCURATE
338.0	MATTOON		GRAY SHALE	3.0	82.0	
335.0	MATTOON		GRAY SHALE	25.0	85.0	
310.0	MATTOON		LIMESTONE	1.0	110.0	
309.0	MATTOON	FRIENDSVILLE	COAL	2.0	111.0	THICKNESS IS PROBABLY NOT ACCURATE
307.0	BOND		DARK SHALE	1.0	113.0	
306.0	BOND		LIMESTONE	24.0	114.0	
282.0	BOND		SANDSTONE	32.0	138.0	
250.0	BOND		DARK SHALE	20.0	170.0	
230.0	BOND		BLACK SHALE	8.0	190.0	
222.0	BOND		SANDSTONE	12.0	198.0	
210.0	BOND		DARK SHALE	36.0	210.0	
174.0	BOND		BLACK SHALE	3.0	246.0	
171.0	BOND	REEL	LIMESTONE	6.0	249.0	
165.0	BOND		GRAY SHALE	40.0	255.0	
125.0	BOND	MT. CARMEL	SANDSTONE	25.0	295.0	

MAPID: 18526638000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 28 QUARTERS/FOOTAGES: SE NE NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.866132 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.405805 DATE COLLECTED: 4 / 7 / 1980
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 345.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
435.0	MATTOON		LIMESTONE	2.0	25.0	
433.0	MATTOON		DARK SHALE	43.0	27.0	
390.0	MATTOON	FRIENDSVILLE	COAL	2.0	70.0	THICKNESS IS PROBABLY NOT ACCURATE
388.0	BOND		GRAY SHALE	18.0	72.0	
370.0	BOND		DARK SHALE	10.0	90.0	
360.0	BOND		COAL	5.0	100.0	THICKNESS IS PROBABLY NOT ACCURATE
355.0	BOND		LIMESTONE	2.0	105.0	
353.0	BOND		DARK SHALE	18.0	107.0	
335.0	BOND		GRAY SHALE	10.0	125.0	
325.0	BOND		SANDSTONE	40.0	135.0	
285.0	BOND		DARK SHALE	125.0	175.0	
160.0	BOND	MT. CARMEL	SANDSTONE	45.0	300.0	

MAPID: 18527165000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.866205 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.396633 DATE COLLECTED: 6 / 10 / 1983
SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 0.0 LOG TYPE: Nuclear Log
SOURCE: K & W OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
62.0	PATOKA	MACOUPIN	LIMESTONE	1.0	360.0	
-28.0	SHELBURN	WEST FRANKLIN	LIMESTONE	15.0	450.0	
-240.0	SHELBURN	DANVILLE	COAL	3.3	662.0	
-274.0	CARBONDALE	HERRIN	COAL	4.0	696.0	
-322.0	CARBONDALE	BRIAR HILL	COAL	2.5	744.0	
-353.0	CARBONDALE	SPRINGFIELD	COAL	5.5	775.0	
-471.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	893.0	
-538.0	CARBONDALE	COLCHESTER	COAL	-	960.0	
-594.0	CARBONDALE	DAVIS	COAL	3.7	1016.0	
-620.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	3.5	1042.0	

MAPID: 18527471000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 28

QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.85902

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.407584

DATE COLLECTED: 1 / 5 / 1983

SURFACE ELEVATION (FT.): 465.0

LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			CLAY	12.0	0.0	
453.0	MATTOON		SANDSTONE	3.0	12.0	
450.0	MATTOON		GRAY SHALE	5.0	15.0	
445.0	MATTOON		SANDSTONE	4.0	20.0	
441.0	MATTOON		GRAY SHALE	6.0	24.0	
435.0	MATTOON		SANDSTONE	5.0	30.0	
430.0	MATTOON		GRAY SHALE	15.0	35.0	
415.0	MATTOON	FRIENDSVILLE	COAL	1.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
414.0	BOND		GRAY SHALE	14.0	51.0	
400.0	BOND		COAL	5.0	65.0	THICKNESS IS PROBABLY NOT ACCURATE
395.0	BOND		GRAY SHALE	20.0	70.0	
375.0	BOND		LIMESTONE	4.0	90.0	
371.0	BOND		GRAY SHALE	41.0	94.0	
330.0	BOND		SANDSTONE	25.0	135.0	
305.0	BOND		GRAY SHALE	22.0	160.0	
283.0	BOND		SANDSTONE	7.0	182.0	
276.0	BOND		GRAY SHALE	61.0	189.0	
215.0	BOND		SANDSTONE	43.0	250.0	
172.0	BOND	MT. CARMEL	SANDSTONE	22.0	293.0	

MAPID: 18527540000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 28 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.856827

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.396594

DATE COLLECTED: 10 / 11 / 1985

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 286.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			CLAY	30.0	0.0	
395.0			GRAY SHALE	7.0	30.0	
388.0			COAL	1.0	37.0	THICKNESS IS PROBABLY NOT ACCURATE
387.0			LIMESTONE	1.0	38.0	
386.0			GRAY SHALE	14.0	39.0	
372.0			COAL	1.0	53.0	THICKNESS IS PROBABLY NOT ACCURATE
371.0			LIMESTONE	4.0	54.0	
367.0			COAL	8.0	58.0	THICKNESS IS PROBABLY NOT ACCURATE
359.0			LIMESTONE	3.0	66.0	
356.0			DARK SHALE	26.0	69.0	
330.0			SANDSTONE	17.0	95.0	
313.0			SANDY SHALE	14.0	112.0	
299.0	BOND	WITT	COAL	6.0	126.0	THICKNESS IS PROBABLY NOT ACCURATE
293.0	BOND		LIMESTONE	5.0	132.0	
288.0	BOND		GRAY SHALE	103.0	137.0	
185.0	BOND		SANDY SHALE	10.0	240.0	
175.0	BOND	MT. CARMEL	SANDSTONE	36.0	250.0	

MAPID: 18501517000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: BONE GAP LONGITUDE: -87.885005

GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.402326

DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 2875.0

LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-304.0	CARBONDALE	DANVILLE	COAL	-	746.0	
-314.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	756.0	
-340.0	CARBONDALE	HERRIN	COAL	5.0	782.0	
-364.0	CARBONDALE	VERMILIONVILLE	SILTSTONE	10.0	806.0	
-398.0	CARBONDALE	BRIAR HILL	COAL	-	840.0	
-437.0	CARBONDALE	SPRINGFIELD	COAL	9.0	879.0	

MAPID: 18502228000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NW
QUADRANGLE: BONE GAP LONGITUDE: -87.892075 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.406089 DATE COLLECTED: 9 / 12 / 1955
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 2921.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
310.0	MATTOON	FRIENDSVILLE	COAL	3.0	142.0
246.0	BOND	WITT	COAL	1.0	206.0
192.0	BOND	REEL	LIMESTONE	1.0	260.0
142.0	BOND	MT. CARMEL	SANDSTONE	84.0	310.0
-3.0	PATOKA	MACOUPIN	LIMESTONE	1.0	455.0
-97.0	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	549.0
-325.0	SHELBURN	DANVILLE	COAL	2.8	777.0
-361.0	CARBONDALE	HERRIN	COAL	5.0	813.0
-427.0	CARBONDALE	BRIAR HILL	COAL	1.7	879.0
-458.0	CARBONDALE	SPRINGFIELD	COAL	6.0	910.0
-536.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	988.0
-598.0	CARBONDALE	COLCHESTER	COAL	-	1050.0
-650.0	CARBONDALE	DAVIS	COAL	4.0	1102.0
-668.0	TRADEWATER	CARRIER MILLS	SHALE	-	1120.0

MAPID: 18502798000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE
QUADRANGLE: BONE GAP LONGITUDE: -87.878012 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.396722 DATE COLLECTED: 8 / 9 / 1948
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 2596.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
278.0	BOND	WITT	COAL	1.0	140.0
220.0	BOND	REEL	LIMESTONE	1.0	198.0
188.0	BOND	MT. CARMEL	SANDSTONE	55.0	230.0
38.0	PATOKA	MACOUPIN	LIMESTONE	3.0	380.0
-54.0	SHELBURN	WEST FRANKLIN	LIMESTONE	16.0	472.0
-268.0	SHELBURN	DANVILLE	COAL	3.5	686.0
-298.0	CARBONDALE	HERRIN	COAL	4.0	716.0
-350.0	CARBONDALE	BRIAR HILL	COAL	1.0	768.0
-394.0	CARBONDALE	SPRINGFIELD	COAL	8.0	812.0
-488.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	906.0
-621.0	CARBONDALE	DAVIS	COAL	4.0	1039.0

MAPID: 18526421000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: 300' S line, 300' E line of SW NW

QUADRANGLE: BONE GAP LONGITUDE: -87.889616 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.402311 DATE COLLECTED: 10 / 3 / 1978

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 360.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	20.0	0.0	
455.0	MATTOON		DARK SHALE	23.0	20.0	
432.0	MATTOON		COAL	1.0	43.0	THICKNESS IS PROBABLY NOT ACCURATE
431.0	MATTOON		LIMESTONE	3.0	44.0	
428.0	MATTOON		GRAY SHALE	6.0	47.0	
422.0	MATTOON		LIMESTONE	2.0	53.0	
420.0	MATTOON		GRAY SHALE	7.0	55.0	
413.0	MATTOON		LIMESTONE	3.0	62.0	
410.0	MATTOON		SANDY SHALE	9.0	65.0	
401.0	MATTOON		DARK SHALE	26.0	74.0	
375.0	MATTOON	FRIENDSVILLE	COAL	5.0	100.0	THICKNESS IS PROBABLY NOT ACCURATE
370.0	BOND		GRAY SHALE	13.0	105.0	
357.0	BOND		DARK SHALE	7.0	118.0	
350.0	BOND		COAL	4.0	125.0	THICKNESS IS PROBABLY NOT ACCURATE
346.0	BOND		DARK SHALE	4.0	129.0	
342.0	BOND		LIMESTONE	2.0	133.0	
340.0	BOND		DARK SHALE	4.0	135.0	
336.0	BOND		SANDY SHALE	13.0	139.0	
323.0	BOND		DARK SHALE	15.0	152.0	
308.0	BOND		SANDY SHALE	5.0	167.0	
303.0	BOND		SANDSTONE	25.0	172.0	
278.0	BOND		LIMESTONE	8.0	197.0	
270.0	BOND		DARK SHALE	5.0	205.0	
265.0	BOND		LIMESTONE	5.0	210.0	
260.0	BOND		DARK SHALE	48.0	215.0	
212.0	BOND	FLANNIGAN	COAL	2.0	263.0	THICKNESS IS PROBABLY NOT ACCURATE
210.0	BOND		GRAY SHALE	45.0	265.0	
165.0	BOND	MT. CARMEL	SANDSTONE	50.0	310.0	

MAPID: 18526422000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: 300' N line, 300' E line of NW SW

QUADRANGLE: BONE GAP LONGITUDE: -87.889635 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.400654 DATE COLLECTED: 10 / 3 / 1978

SURFACE ELEVATION (FT.): LOGGED (FT.): 360.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 80280 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			DARK CLAY	25.0	0.0	
-	MATTOON	KEENSBURG	DARK SHALE	6.0	25.0	
-	MATTOON		COAL	2.0	31.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	MATTOON		DARK SHALE	2.0	33.0	
-	MATTOON		LIMESTONE	7.0	35.0	
-	MATTOON		SANDY SHALE	11.0	42.0	
-	MATTOON	FRIENDSVILLE	DARK SHALE	20.0	53.0	
-	MATTOON		COAL	2.0	73.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		SANDY SHALE	15.0	75.0	
-	BOND		DARK SHALE	15.0	90.0	
-	BOND		COAL	10.0	105.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		DARK SHALE	6.0	115.0	
-	BOND		SANDY SHALE	9.0	121.0	
-	BOND		COAL	2.0	130.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		GRAY SHALE	10.0	132.0	
-	BOND		DARK SHALE	16.0	142.0	
-	BOND	WITT	SANDSTONE	36.0	158.0	
-	BOND		COAL	3.0	194.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		DARK SHALE	13.0	197.0	
-	BOND		GRAY SHALE	15.0	210.0	
-	BOND		DARK SHALE	35.0	225.0	
-	BOND	MT. CARMEL	GRAY SHALE	15.0	260.0	
-	BOND		DARK SHALE	13.0	275.0	
-	BOND		SANDSTONE	72.0	288.0	

MAPID: 18526433000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29
 QUADRANGLE: BONE GAP LONGITUDE: -87.889764
 CONFIDENTIAL: N LATITUDE: 38.40057
 SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 325.0
 SOURCE: GEOLOGICAL AND WATER SURVEY 79133
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

GEOLOGIST: JACOBSON
 DATE COLLECTED: 9 / 7 / 1978
 LOG TYPE: Drillers Log
 WELL TYPE: Water Well

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			CLAY	20.0	0.0	
445.0	MATTOON		DARK SHALE	15.0	20.0	
430.0	MATTOON		LIMESTONE	5.0	35.0	
425.0	MATTOON		DARK SHALE	3.0	40.0	
422.0	MATTOON		LIMESTONE	1.0	43.0	
421.0	MATTOON		DARK SHALE	9.0	44.0	
412.0	MATTOON		COAL	2.0	53.0	DO NOT USE FOR RESOURCE CALCULATIONS
410.0	MATTOON		DARK SHALE	23.0	55.0	
387.0	MATTOON	FRIENDSVILLE	COAL	2.0	78.0	DO NOT USE FOR RESOURCE CALCULATIONS
385.0	BOND		DARK SHALE	5.0	80.0	
380.0	BOND		GRAY SHALE	23.0	85.0	
357.0	BOND		COAL	5.0	108.0	DO NOT USE FOR RESOURCE CALCULATIONS
352.0	BOND		LIMESTONE	5.0	113.0	
347.0	BOND		DARK SHALE	18.0	118.0	
329.0	BOND		COAL	1.0	136.0	DO NOT USE FOR RESOURCE CALCULATIONS
328.0	BOND		DARK SHALE	16.0	137.0	
312.0	BOND		SANDSTONE	27.0	153.0	
285.0	BOND		DARK SHALE	5.0	180.0	
280.0	BOND		LIMESTONE	2.0	185.0	
278.0	BOND		DARK SHALE	13.0	187.0	
265.0	BOND		GRAY SHALE	10.0	200.0	
255.0	BOND		DARK SHALE	80.0	210.0	
175.0	BOND	MT. CARMEL	SANDSTONE	35.0	290.0	

MAPID: 18526434000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 29

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: BONE GAP

LONGITUDE: -87.892171

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.396948

DATE COLLECTED: 9 / 7 / 1978

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 360.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 79132

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	30.0	0.0	SOIL AND CLAY
420.0	MATTOON		GRAY SHALE	9.0	30.0	
411.0	MATTOON		LIMESTONE	2.0	39.0	
409.0	MATTOON		DARK SHALE	27.0	41.0	
382.0	MATTOON	FRIENDSVILLE	COAL	3.0	68.0	DO NOT USE FOR RESOURCE CALCULATIONS
379.0	BOND		GRAY SHALE	13.0	71.0	
366.0	BOND		DARK SHALE	24.0	84.0	
342.0	BOND		COAL	7.0	108.0	DO NOT USE FOR RESOURCE CALCULATIONS
335.0	BOND		LIMESTONE	2.0	115.0	
333.0	BOND		DARK SHALE	8.0	117.0	
325.0	BOND		COAL	5.0	125.0	DO NOT USE FOR RESOURCE CALCULATIONS
320.0	BOND		SANDY SHALE	28.0	130.0	
292.0	BOND		SANDSTONE	12.0	158.0	
280.0	BOND		DARK SHALE	20.0	170.0	
260.0	BOND		SANDSTONE	30.0	190.0	
230.0	BOND		DARK SHALE	25.0	220.0	
205.0	BOND	FLANNIGAN	COAL	3.0	245.0	DO NOT USE FOR RESOURCE CALCULATIONS
202.0	BOND		LIMESTONE	2.0	248.0	
200.0	BOND		DARK SHALE	40.0	250.0	
160.0	BOND		SANDY SHALE	25.0	290.0	
135.0	BOND	MT. CARMEL	SANDSTONE	45.0	315.0	

MAPID: 18526435000C VERSION: 1 PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: BONE GAP LONGITUDE: -87.892148 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.398776 DATE COLLECTED: 9 / 7 / 1978

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 360.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 79136 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	18.0	0.0	SOIL AND CLAY
432.0			SANDSTONE	15.0	18.0	
417.0			LIMESTONE	2.0	33.0	
415.0			GRAY SHALE	10.0	35.0	
405.0			SANDSTONE	5.0	45.0	
400.0			DARK SHALE	40.0	50.0	
360.0			COAL	3.0	90.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
357.0			GRAY SHALE	12.0	93.0	
345.0			DARK SHALE	33.0	105.0	
312.0			COAL	9.0	138.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
303.0			GRAY SHALE	10.0	147.0	
293.0			SANDY SHALE	3.0	157.0	
290.0			SANDSTONE	20.0	160.0	
270.0			DARK SHALE	20.0	180.0	
250.0			LIMESTONE	4.0	200.0	
246.0			COAL	6.0	204.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
240.0			LIMESTONE	3.0	210.0	
237.0			GRAY SHALE	25.0	213.0	
212.0			DARK SHALE	42.0	238.0	
170.0			SANDY MUDSTONE	20.0	280.0	
150.0			SANDSTONE	60.0	300.0	

MAPID: 18526436000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: BONE GAP LONGITUDE: -87.875563 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.407719 DATE COLLECTED: 6 / 27 / 1978

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 319.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 76143 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
415.0	MATTOON		SANDY SHALE	5.0	25.0	
410.0	MATTOON		GRAY SHALE	15.0	30.0	
395.0	MATTOON	FRIENDSVILLE	COAL	5.0	45.0	DO NOT USE FOR RESOURCE CALCULATIONS
390.0	BOND		GRAY SHALE	15.0	50.0	
375.0	BOND		DARK SHALE	15.0	65.0	
360.0	BOND		COAL	5.0	80.0	DO NOT USE FOR RESOURCE CALCULATIONS
355.0	BOND		LIMESTONE	4.0	85.0	
351.0	BOND		DARK SHALE	11.0	89.0	
340.0	BOND		SANDSTONE	15.0	100.0	
325.0	BOND		GRAY SHALE	25.0	115.0	
300.0	BOND		DARK SHALE	20.0	140.0	
280.0	BOND		LIMESTONE	5.0	160.0	
275.0	BOND		GRAY SHALE	15.0	165.0	
260.0	BOND		DARK SHALE	90.0	180.0	
170.0	BOND	MT. CARMEL	SANDSTONE	49.0	270.0	

MAPID: 18526639000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 29

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: BONE GAP

LONGITUDE: -87.892148

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.398776

DATE COLLECTED: 2 / 16 / 1979

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
425.0	MATTOON		COAL	2.0	25.0	THICKNESS IS PROBABLY NOT ACCURATE
423.0	MATTOON		LIMESTONE	7.0	27.0	
416.0	MATTOON		GRAY SHALE	10.0	34.0	
406.0	MATTOON		DARK SHALE	34.0	44.0	
372.0	MATTOON	FRIENDSVILLE	COAL	7.0	78.0	THICKNESS IS PROBABLY NOT ACCURATE
365.0	BOND		GRAY SHALE	20.0	85.0	
345.0	BOND		DARK SHALE	11.0	105.0	
334.0	BOND		COAL	6.0	116.0	THICKNESS IS PROBABLY NOT ACCURATE
328.0	BOND		DARK SHALE	8.0	122.0	
320.0	BOND		SHALE	5.0	130.0	
315.0	BOND		SANDSTONE	20.0	135.0	
295.0	BOND		DARK SHALE	33.0	155.0	
262.0	BOND		LIMESTONE	7.0	188.0	
255.0	BOND		DARK SHALE	75.0	195.0	
180.0	BOND	MT. CARMEL	SANDSTONE	75.0	270.0	

MAPID: 18526640000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: BONE GAP LONGITUDE: -87.875563 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.407719 DATE COLLECTED: 9 / 21 / 1979

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 330.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 897311 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	21.0	0.0	SOIL AND CLAY
419.0	MATTOON		GRAY SHALE	11.0	21.0	
408.0	MATTOON		SANDSTONE	8.0	32.0	
400.0	MATTOON		DARK SHALE	20.0	40.0	
380.0	MATTOON	FRIENDSVILLE	COAL	4.0	60.0	DO NOT USE FOR RESOURCE CALCULATIONS
376.0	BOND		DARK SHALE	26.0	64.0	
350.0	BOND		LIMESTONE	3.0	90.0	
347.0	BOND		COAL	8.0	93.0	DO NOT USE FOR RESOURCE CALCULATIONS
339.0	BOND		LIMESTONE	3.0	101.0	
336.0	BOND		DARK SHALE	36.0	104.0	
300.0	BOND		SANDY SHALE	15.0	140.0	
285.0	BOND		DARK SHALE	12.0	155.0	
273.0	BOND	WITT	COAL	3.0	167.0	DO NOT USE FOR RESOURCE CALCULATIONS
270.0	BOND		LIMESTONE	2.0	170.0	
268.0	BOND		SHALE	23.0	172.0	
245.0	BOND		DARK SHALE	33.0	195.0	
212.0	BOND	FLANNIGAN	COAL	2.0	228.0	DO NOT USE FOR RESOURCE CALCULATIONS
210.0	BOND		LIMESTONE	2.0	230.0	
208.0	BOND		GRAY SHALE	53.0	232.0	
155.0	BOND	MT. CARMEL	SANDSTONE	45.0	285.0	

MAPID: 18527464000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 29

QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: BONE GAP

LONGITUDE: -87.877927

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.405911

DATE COLLECTED: 6 / 1 / 1981

SURFACE ELEVATION (FT.): 455.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 99932

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			CLAY	30.0	0.0	
425.0	MATTOON		GRAY SHALE	10.0	30.0	
415.0	MATTOON		SANDSTONE	10.0	40.0	
405.0	MATTOON		GRAY SHALE	8.0	50.0	
397.0	MATTOON	FRIENDSVILLE	COAL	7.0	58.0	DO NOT USE FOR RESOURCE CALCULATIONS
390.0	BOND		GRAY SHALE	30.0	65.0	
360.0	BOND		COAL	6.0	95.0	DO NOT USE FOR RESOURCE CALCULATIONS
354.0	BOND		LIMESTONE	3.0	101.0	
351.0	BOND		GRAY SHALE	2.0	104.0	
349.0	BOND		DARK SHALE	34.0	106.0	
315.0	BOND		SANDSTONE	15.0	140.0	
300.0	BOND		DARK SHALE	20.0	155.0	
280.0	BOND	WITT	COAL	2.0	175.0	DO NOT USE FOR RESOURCE CALCULATIONS
278.0	BOND		LIMESTONE	4.0	177.0	
274.0	BOND		DARK SHALE	87.0	181.0	
187.0	BOND		GRAY SHALE	17.0	268.0	
170.0	BOND	MT. CARMEL	SANDSTONE	60.0	285.0	

MAPID: 18527472000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 29

QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: BONE GAP

LONGITUDE: -87.877927

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.405911

DATE COLLECTED: 5 / 24 / 1982

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 330.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	28.0	0.0	
422.0	MATTOON		DARK SHALE	7.0	28.0	
415.0	MATTOON		LIMESTONE	2.0	35.0	
413.0	MATTOON		DARK SHALE	13.0	37.0	
400.0	MATTOON		SANDSTONE	5.0	50.0	
395.0	MATTOON		DARK SHALE	15.0	55.0	
380.0	MATTOON	FRIENDSVILLE	COAL	2.0	70.0	THICKNESS IS PROBABLY NOT ACCURATE
378.0	BOND		GRAY SHALE	20.0	72.0	
358.0	BOND		DARK SHALE	10.0	92.0	
348.0	BOND		COAL	3.0	102.0	THICKNESS IS PROBABLY NOT ACCURATE
345.0	BOND		LIMESTONE	7.0	105.0	
338.0	BOND		DARK SHALE	8.0	112.0	
330.0	BOND		SANDY SHALE	5.0	120.0	
325.0	BOND		COAL	2.0	125.0	THICKNESS IS PROBABLY NOT ACCURATE
323.0	BOND		SANDY SHALE	28.0	127.0	
295.0	BOND		LIMESTONE	7.0	155.0	
288.0	BOND		DARK SHALE	83.0	162.0	
205.0	BOND	FLANNIGAN	COAL	2.0	245.0	THICKNESS IS PROBABLY NOT ACCURATE
203.0	BOND		LIMESTONE	4.0	247.0	
199.0	BOND		DARK SHALE	49.0	251.0	
150.0	BOND	MT. CARMEL	SANDSTONE	30.0	300.0	

MAPID: 18527498000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: BONE GAP LONGITUDE: -87.892124 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.400606 DATE COLLECTED: 2 / 18 / 1983

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 330.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	20.0	0.0	
440.0			GRAY SHALE	10.0	20.0	
430.0			COAL	2.0	30.0	THICKNESS IS PROBABLY NOT ACCURATE
428.0			DARK SHALE	103.0	32.0	
325.0			COAL	3.0	135.0	THICKNESS IS PROBABLY NOT ACCURATE
322.0			LIMESTONE	2.0	138.0	
320.0			SANDSTONE	30.0	140.0	
290.0			GRAY SHALE	10.0	170.0	
280.0			COAL	3.0	180.0	THICKNESS IS PROBABLY NOT ACCURATE
277.0			LIMESTONE	2.0	183.0	
275.0			DARK SHALE	85.0	185.0	
190.0			SANDY SHALE	30.0	270.0	
160.0	BOND	MT. CARMEL	SANDSTONE	30.0	300.0	

MAPID: 18527527000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 29

QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: BONE GAP

LONGITUDE: -87.892101

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.402434

DATE COLLECTED: 9 / 4 / 1985

SURFACE ELEVATION (FT.): 470.0

LOGGED (FT.): 340.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0			CLAY	24.0	0.0	
446.0	MATTOON		COAL	2.0	24.0	THICKNESS IS PROBABLY NOT ACCURATE
444.0	MATTOON		BROWN SHALE	14.0	26.0	
430.0	MATTOON		GRAY SHALE	7.0	40.0	
423.0	MATTOON		LIMESTONE	2.0	47.0	
421.0	MATTOON		SANDY SHALE	4.0	49.0	
417.0	MATTOON		LIMESTONE	1.0	53.0	
416.0	MATTOON		GRAY SHALE	31.0	54.0	
385.0	MATTOON	FRIENDSVILLE	COAL	5.0	85.0	THICKNESS IS PROBABLY NOT ACCURATE
380.0	BOND		SANDY SHALE	20.0	90.0	
360.0	BOND		DARK SHALE	8.0	110.0	
352.0	BOND		COAL	3.0	118.0	THICKNESS IS PROBABLY NOT ACCURATE
349.0	BOND		GRAY SHALE	5.0	121.0	
344.0	BOND		LIMESTONE	2.0	126.0	
342.0	BOND		SANDY SHALE	12.0	128.0	
330.0	BOND		SANDSTONE	8.0	140.0	
322.0	BOND		SANDY SHALE	7.0	148.0	
315.0	BOND		SANDSTONE	39.0	155.0	
276.0	BOND		LIMESTONE	9.0	194.0	
267.0	BOND		GRAY SHALE	6.0	203.0	
261.0	BOND		LIMESTONE	4.0	209.0	
257.0	BOND		DARK SHALE	42.0	213.0	
215.0	BOND	REEL	LIMESTONE	2.0	255.0	
213.0	BOND		DARK SHALE	28.0	257.0	
185.0	BOND		SANDY SHALE	15.0	285.0	
170.0	BOND	MT. CARMEL	SANDSTONE	40.0	300.0	

MAPID: 18527541000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 29 QUARTERS/FOOTAGES: 130' S line, 40' W line of NE NW
 QUADRANGLE: BONE GAP LONGITUDE: -87.88839 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.405488 DATE COLLECTED: 10 / 11 / 1985
 SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 380.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Water Well
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			UNCONSOLIDATED	16.0	0.0	SOIL AND CLAY
464.0			SANDSTONE	11.0	16.0	
453.0			GRAY SHALE	50.0	27.0	
403.0			LIMESTONE	2.0	77.0	
401.0			SHALE	36.0	79.0	
365.0			GRAY SHALE	7.0	115.0	
358.0			CALCAREOUS SHALE	28.0	122.0	
330.0			COAL	2.0	150.0	THICKNESS IS PROBABLY NOT ACCURATE
328.0			SANDSTONE	3.0	152.0	
325.0			GRAY SHALE	81.0	155.0	
244.0			SANDSTONE	3.0	236.0	
241.0			SHALE	23.0	239.0	
218.0			DARK SHALE	31.0	262.0	
187.0			SANDY SHALE	44.0	293.0	
143.0	BOND	MT. CARMEL	SANDSTONE	18.0	337.0	SS W/ SOME SHALE
125.0	BOND	MT. CARMEL	SANDSTONE	25.0	355.0	

MAPID: 18502090000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 30 QUARTERS/FOOTAGES: 330' S line, 330' W line
 QUADRANGLE: BONE GAP LONGITUDE: -87.910505 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.395167 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 3004.0 LOG TYPE: Electric Log
 SOURCE: WOLBERG SAMUEL WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-346.0	CARBONDALE	DANVILLE	COAL	-	756.0	
-360.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	770.0	
-356.0	CARBONDALE	ANVIL ROCK	SILTSTONE	3.0	766.0	
-382.0	CARBONDALE	HERRIN	COAL	5.0	792.0	
-400.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	6.0	810.0	
-426.0	CARBONDALE	BRIAR HILL	COAL	-	836.0	
-496.0	CARBONDALE	SPRINGFIELD	COAL	8.0	906.0	
-560.0	CARBONDALE	HOUCHIN CREEK	COAL	-	970.0	

MAPID: 18504642001M **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: BONE GAP **LONGITUDE:** -87.910319 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.407938 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 420.0 **LOGGED (FT.):** 28.5 **LOG TYPE:**
SOURCE: **WELL TYPE:** Mine Shaft
COMMENT: RODRICK COAL CO MINE NO 1 FROM MINE NOTE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
394.0	MATTOON	FRIENDSVILLE	COAL	2.5	26.0

MAPID: 18504643001M **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 30 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: BONE GAP **LONGITUDE:** -87.910462 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.398817 **DATE COLLECTED:** 10 / 15 / 1942
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 40.5 **LOG TYPE:**
SOURCE: **WELL TYPE:** Mine Shaft
COMMENT: MINE NOTES FOR RODRICK MINE NO 2

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
402.0	MATTOON	FRIENDSVILLE	COAL	2.5	38.0

MAPID: 18525987000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 13W **SECTION:** 30 **QUARTERS/FOOTAGES:** 159' S line, 101' E line of NE NE
QUADRANGLE: BONE GAP **LONGITUDE:** -87.89359 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.405633 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.9 **LOGGED (FT.):** 1111.0 **LOG TYPE:** Survey Core Study
SOURCE: AMAX C. C. BB-19 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.9	CARBONDALE	SPRINGFIELD	NO RECORD	810.0	0.0	
-366.1			BLACK SHALE	4.0	810.0	
-370.1			COAL	5.0	814.0	
-375.1			SHALE	3.0	819.0	GAP IN CORE; GRY BLK
-472.1			SHALE	3.2	916.0	GAP IN CORE; MED GRAY
-641.1			SHALE	6.0	1085.0	MED
-647.1			SHALE	6.0	1091.0	MED GRAY
-653.1			SHALE	6.0	1097.0	MED GRAY
-659.1			SILTY CLAYSTONE	0.2	1103.0	GAP IN CORE
-665.1			UNDERCLAY	2.0	1109.0	

MAPID: 18526437000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 30 QUARTERS/FOOTAGES: 300' S line, 300' W line of NW SW

QUADRANGLE: BONE GAP LONGITUDE: -87.910552 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.398732 DATE COLLECTED: 10 / 3 / 1978

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 375.0 LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 80281 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			CLAY	20.0	0.0	
410.0	MATTOON		DARK SHALE	7.0	20.0	
403.0	MATTOON		COAL	1.0	27.0	DO NOT USE FOR RESOURCE CALCULATIONS
402.0	MATTOON		LIMESTONE	5.0	28.0	
397.0	MATTOON		DARK SHALE	12.0	33.0	
385.0	MATTOON		LIMESTONE	3.0	45.0	
382.0	MATTOON		DARK SHALE	8.0	48.0	
374.0	MATTOON		LIMESTONE	9.0	56.0	
365.0	MATTOON		DARK SHALE	19.0	65.0	
346.0	MATTOON	FRIENDSVILLE	COAL	4.0	84.0	DO NOT USE FOR RESOURCE CALCULATIONS
342.0	BOND		GRAY SHALE	45.0	88.0	
297.0	BOND		COAL	5.0	133.0	DO NOT USE FOR RESOURCE CALCULATIONS
292.0	BOND		DARK SHALE	7.0	138.0	
285.0	BOND		LIMESTONE	1.0	145.0	
284.0	BOND		GRAY SHALE	19.0	146.0	
265.0	BOND		DARK SHALE	15.0	165.0	
250.0	BOND		SANDSTONE	20.0	180.0	
230.0	BOND		DARK SHALE	10.0	200.0	
220.0	BOND		LIMESTONE	10.0	210.0	
210.0	BOND		GRAY SHALE	20.0	220.0	
190.0	BOND		DARK SHALE	30.0	240.0	
160.0	BOND		GRAY SHALE	20.0	270.0	
140.0	BOND		SANDY SHALE	30.0	290.0	
110.0	BOND	MT. CARMEL	SANDSTONE	20.0	320.0	
90.0	BOND	MT. CARMEL	SANDSTONE	35.0	340.0	

MAPID: 18502799000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 31

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

QUADRANGLE: BONE GAP

LONGITUDE: -87.910563

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.38956

DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0

LOGGED (FT.): 2922.0

LOG TYPE: Electric Log

SOURCE: RYAN & SHARP

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-352.0	CARBONDALE	HERRIN	COAL	4.0	766.0	
-392.0	CARBONDALE	BRIAR HILL	COAL	-	806.0	
-479.0	CARBONDALE	SPRINGFIELD	COAL	8.0	893.0	
-546.0	CARBONDALE	HOUCHIN CREEK	COAL	-	960.0	

MAPID: 18526248000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 31 QUARTERS/FOOTAGES: SW

QUADRANGLE: BONE GAP LONGITUDE: -87.907207 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.382886 DATE COLLECTED: 8 / 17 / 1976

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

SOURCE: OLEN L. WILSON 2 WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	25.0	0.0	
-	MATTOON		SANDSTONE	15.0	25.0	
-	MATTOON		SANDY SHALE	5.0	40.0	
-	MATTOON		SHALE	5.0	45.0	
-	MATTOON		DARK SHALE	8.0	50.0	
-	MATTOON	FRIENDSVILLE	COAL	1.0	58.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		SHALE	3.0	59.0	
-	BOND		SANDSTONE	18.0	62.0	
-	BOND		SHALE	13.0	80.0	
-	BOND		COAL	2.0	93.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		SHALE	3.0	95.0	
-	BOND		LIMESTONE	2.0	98.0	
-	BOND		SANDY SHALE	8.0	100.0	
-	BOND		SHALE	3.0	108.0	
-	BOND		COAL	1.0	111.0	DO NOT USE FOR RESOURCE CALCULATIONS
-	BOND		SHALE	14.0	112.0	
-	BOND		SANDSTONE	39.0	126.0	
-	BOND		SHALE	19.0	165.0	
-	BOND		SHALE	2.0	184.0	
-	BOND		SANDSTONE	18.0	186.0	
-	BOND		SHALE	32.0	204.0	
-	BOND		SHALE	2.0	236.0	
-	BOND		SHALE	22.0	238.0	
-	BOND	MT. CARMEL	SANDSTONE	70.0	260.0	
-			SHALE	5.0	330.0	

MAPID: 18502133000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: BONE GAP LONGITUDE: -87.885195 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.385643 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2595.0 LOG TYPE: Electric Log

SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-276.0	CARBONDALE	DANVILLE	COAL	-	704.0
-286.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	714.0
-288.0	CARBONDALE	ANVIL ROCK	CALCAREOUS SANDSTONE	6.0	716.0
-306.0	CARBONDALE	HERRIN	COAL	3.0	734.0
-334.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	14.0	762.0
-348.0	CARBONDALE	BRIAR HILL	COAL	-	776.0
-475.0	CARBONDALE	SS BELOW NO. 5	SANDSTONE/SHALE	30.0	903.0
-520.0	CARBONDALE	HOUCHIN CREEK	COAL	-	948.0

MAPID: 18504406000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SW

QUADRANGLE: BONE GAP LONGITUDE: -87.887607 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.383713 DATE COLLECTED: 9 / 12 / 1951

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2616.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
273.0	BOND	WITT	COAL	1.0	165.0
216.0	BOND	REEL	LIMESTONE	2.5	222.0
163.0	BOND	MT. CARMEL	SANDSTONE	50.0	275.0
28.0	PATOKA	MACOUPIN	LIMESTONE	1.5	410.0
-67.0	SHELBURN	WEST FRANKLIN	LIMESTONE	14.0	505.0
-286.0	SHELBURN	DANVILLE	COAL	2.0	724.0
-315.0	CARBONDALE	HERRIN	COAL	3.5	753.0
-354.0	CARBONDALE	BRIAR HILL	COAL	1.0	792.0
-387.0	CARBONDALE	SPRINGFIELD	SILTSTONE	0.0	825.0
-530.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	968.0
-545.0	CARBONDALE	SURVANT	COAL	2.8	983.0
-601.0	CARBONDALE	COLCHESTER	COAL	-	1039.0
-637.0	CARBONDALE	DEKOVEN	COAL	1.0	1075.0
-649.0	CARBONDALE	LOWER DEKOVEN	COAL	3.0	1087.0
-656.0	CARBONDALE	DAVIS	COAL	4.0	1094.0
-682.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1120.0

MAPID: 18502134000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 33 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.868732 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.38733 DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2555.0 LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-254.0	CARBONDALE	DANVILLE	COAL	-	658.0
-266.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	670.0
-272.0	CARBONDALE	ANVIL ROCK	SILTSTONE	4.0	676.0
-284.0	CARBONDALE	HERRIN	COAL	3.0	688.0
-334.0	CARBONDALE	BRIAR HILL	COAL	-	738.0
-452.0	CARBONDALE	SS BELOW NO. 5	SANDSTONE/SHALE	52.0	856.0
-510.0	CARBONDALE	HOUCHIN CREEK	COAL	-	914.0

MAPID: 18504448000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.866453 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.381759 DATE COLLECTED: 10 / 20 / 1950

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2555.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
226.0	BOND	REEL	LIMESTONE	1.4	178.0
197.0	BOND	MT. CARMEL	SANDSTONE	75.0	207.0
40.0	PATOKA	MACOUPIN	LIMESTONE	1.0	364.0
-46.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.5	450.0
-246.0	SHELBURN	DANVILLE	COAL	2.8	650.0
-276.0	CARBONDALE	HERRIN	COAL	2.8	680.0
-335.0	CARBONDALE	BRIAR HILL	COAL	1.5	739.0
-366.0	CARBONDALE	SPRINGFIELD	COAL	0.0	770.0
-507.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	911.0
-572.0	CARBONDALE	COLCHESTER	COAL	-	976.0
-595.0	CARBONDALE	DEKOVEN	COAL	2.7	999.0
-614.0	CARBONDALE	DAVIS	COAL	4.0	1018.0
-639.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	4.7	1043.0

MAPID: 18504451000C VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 33 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.866351 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.387316 DATE COLLECTED: 3 / 3 / 1954

SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 2556.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
285.0	BOND	WITT	COAL	1.0	120.0
245.0	BOND	REEL	COAL	1.0	160.0
193.0	BOND	MT. CARMEL	SANDSTONE	98.0	212.0
45.0	PATOKA	MACOUPIN	LIMESTONE	1.5	360.0
-45.0	SHELBURN	WEST FRANKLIN	LIMESTONE	15.0	450.0
-249.0	SHELBURN	DANVILLE	COAL	2.8	654.0
-279.0	CARBONDALE	HERRIN	COAL	2.8	684.0
-330.0	CARBONDALE	BRIAR HILL	COAL	0.8	735.0
-355.0	CARBONDALE	SPRINGFIELD	SILTSTONE	0.0	760.0
-508.0	CARBONDALE	HOUCHIN CREEK	COAL	3.5	913.0
-517.0	CARBONDALE	SURVANT	COAL	2.5	922.0
-575.0	CARBONDALE	COLCHESTER	COAL	-	980.0
-589.0	CARBONDALE	DEKOVEN	COAL	2.5	994.0
-616.0	CARBONDALE	DAVIS	COAL	4.7	1021.0
-645.0	TRADEWATER	CARRIER MILLS	SHALE	-	1050.0

MAPID: 18527473000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 33

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.857039

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.38353

DATE COLLECTED: 12 / 8 / 1982

SURFACE ELEVATION (FT.): 415.0

LOGGED (FT.): 240.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 105817

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0			CLAY	21.0	0.0	
394.0	MATTOON	FRIENDSVILLE	COAL	5.0	21.0	DO NOT USE FOR RESOURCE CALCULATIONS
389.0	BOND		LIMESTONE	2.0	26.0	
387.0	BOND		GRAY SHALE	7.0	28.0	
380.0	BOND		DARK SHALE	45.0	35.0	
335.0	BOND		SANDSTONE	21.0	80.0	
314.0	BOND		LIMESTONE	2.0	101.0	
312.0	BOND	WITT	COAL	2.0	103.0	DO NOT USE FOR RESOURCE CALCULATIONS
310.0	BOND		GRAY SHALE	4.0	105.0	
306.0	BOND		LIMESTONE	3.0	109.0	
303.0	BOND		GRAY SHALE	8.0	112.0	
295.0	BOND		DARK SHALE	40.0	120.0	
255.0	BOND	FLANNIGAN	COAL	3.0	160.0	DO NOT USE FOR RESOURCE CALCULATIONS
252.0	BOND		LIMESTONE	2.0	163.0	
250.0	BOND		DARK SHALE	47.0	165.0	
203.0	BOND	MT. CARMEL	SANDSTONE	28.0	212.0	

MAPID: 18527475000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 33

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.873552

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.379935

DATE COLLECTED: 9 / 16 / 1982

SURFACE ELEVATION (FT.): 410.0

LOGGED (FT.): 300.0

LOG TYPE: Drillers Log

SOURCE: GEOLOGICAL AND WATER SURVEY 104817

WELL TYPE: Water Well

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
410.0			CLAY	23.0	0.0	
387.0	MATTOON		DARK SHALE	12.0	23.0	
375.0	MATTOON		GRAY SHALE	30.0	35.0	
345.0	MATTOON	FRIENDSVILLE	COAL	4.0	65.0	DO NOT USE FOR RESOURCE CALCULATIONS
341.0	BOND		LIMESTONE	2.0	69.0	
339.0	BOND		GRAY SHALE	34.0	71.0	
305.0	BOND		SANDSTONE	26.0	105.0	
279.0	BOND		GRAY SHALE	27.0	131.0	
252.0	BOND		SANDSTONE	6.0	158.0	
246.0	BOND		DARK SHALE	33.0	164.0	
213.0	BOND	REEL	LIMESTONE	5.0	197.0	
208.0	BOND		GRAY SHALE	50.0	202.0	
158.0	BOND	MT. CARMEL	SANDSTONE	48.0	252.0	

MAPID: 18527872000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 33 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.856884 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.392914 DATE COLLECTED: 6 / 0 / 1964

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 323.0 LOG TYPE: Drillers Log

SOURCE: POTTS BROTHERS CO. 1 WELL TYPE: Oil and Gas Test

COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			UNCLASSIFIED	30.0	0.0	INTERVAL NOT GIVEN IN LOG
395.0	BOND		LIGHT SHALE	21.0	30.0	
374.0	BOND		COAL	1.0	51.0	DO NOT USE FOR RESOURCE CALCULATIONS
373.0	BOND		LIGHT SHALE	9.0	52.0	
364.0	BOND		SANDSTONE	5.0	61.0	
359.0	BOND		SHALE	9.0	66.0	
350.0	BOND		LIMESTONE	1.0	75.0	
349.0	BOND		SHALE	9.0	76.0	
340.0	BOND		LIGHT SHALE	3.0	85.0	
337.0	BOND		LIMESTONE	1.0	88.0	
336.0	BOND		SHALE	26.0	89.0	
310.0	BOND		DARK SHALE	8.0	115.0	
302.0	BOND		SHALE	7.0	123.0	
295.0	BOND		LIMESTONE	2.0	130.0	
293.0	BOND		GRAY SHALE	18.0	132.0	
275.0	BOND		DARK SHALE	10.0	150.0	
265.0	BOND	FLANNIGAN	COAL	1.0	160.0	DO NOT USE FOR RESOURCE CALCULATIONS
264.0	BOND		BROWN SHALE	1.0	161.0	
263.0	BOND		LIMESTONE	2.0	162.0	
261.0	BOND		DARK SHALE	8.0	164.0	
253.0	BOND		SANDY SHALE	8.0	172.0	
245.0	BOND		DARK SHALE	3.0	180.0	
242.0	BOND		LIGHT SHALE	5.0	183.0	
237.0	BOND		DARK SHALE	7.0	188.0	
230.0	BOND		SANDY SHALE	5.0	195.0	
225.0	BOND	MT. CARMEL	SANDSTONE	10.0	200.0	
215.0	BOND		DARK SHALE	22.0	210.0	
193.0	BOND		LIMESTONE	1.0	232.0	
192.0	BOND		DARK SHALE	6.0	233.0	
186.0	BOND		LIGHT SHALE	2.0	239.0	
184.0	BOND	CARTHAGE	LIMESTONE	7.0	241.0	
177.0	PATOKA		SANDY SHALE	12.0	248.0	
165.0	PATOKA		DARK SHALE	32.0	260.0	
133.0	PATOKA		LIMESTONE	2.0	292.0	
131.0	PATOKA		DARK SHALE	1.0	294.0	
130.0	PATOKA		LIGHT SHALE	15.0	295.0	
115.0	PATOKA		DARK SHALE	13.0	310.0	

MAPID: 18527873000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 33 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.856884 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.392914 DATE COLLECTED: 3 / 0 / 1943
 SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 217.0 LOG TYPE: Drillers Log
 SOURCE: POTTS BROTHERS CO. 2 WELL TYPE: Oil and Gas Test
 COMMENT: UNIT THICKNESSES ARE HIGHLY GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			CLAY	22.0	0.0	
403.0	BOND		SANDSTONE	2.0	22.0	
401.0	BOND		LIGHT SHALE	12.0	24.0	
389.0	BOND		LIMESTONE	2.0	36.0	
387.0	BOND		DARK SHALE	32.0	38.0	
355.0	BOND		LIGHT SHALE	10.0	70.0	
345.0	BOND		SANDSTONE	10.0	80.0	
335.0	BOND		DARK SHALE	11.0	90.0	
324.0	BOND		GRAY SHALE	12.0	101.0	
312.0	BOND	FLANNIGAN	COAL	2.0	113.0	DO NOT USE FOR RESOURCE CALCULATIONS
310.0	BOND		LIMESTONE	1.0	115.0	
309.0	BOND		DARK SHALE	24.0	116.0	
285.0	BOND		GRAY SHALE	15.0	140.0	
270.0	BOND	MT. CARMEL	SANDSTONE	17.0	155.0	
253.0	BOND	MT. CARMEL	SANDSTONE	8.0	172.0	
245.0	BOND		DARK SHALE	11.0	180.0	
234.0	BOND	CARTHAGE	LIMESTONE	6.0	191.0	
228.0	PATOKA		LIGHT SHALE	6.0	197.0	
222.0	PATOKA		DARK SHALE	14.0	203.0	

MAPID: 18502135000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 34 QUARTERS/FOOTAGES: 255' N line, 340' W line of SE
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.845254 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.385579 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 1975.0 LOG TYPE: Electric Log
 SOURCE: LUTTRELL & EVERHART WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-205.0	CARBONDALE	DANVILLE	COAL	-	616.0	
-215.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	626.0	
-233.0	CARBONDALE	HERRIN	COAL	2.0	644.0	
-285.0	CARBONDALE	BRIAR HILL	COAL	-	696.0	
-359.0	CARBONDALE	SS BELOW NO. 5	CALCAREOUS SANDSTONE	26.0	770.0	
-441.0	CARBONDALE	HOUCHIN CREEK	COAL	-	852.0	

MAPID: 18502713000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.845329 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.383432 DATE COLLECTED: 10 / 21 / 1958

SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2348.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
284.0	BOND	REEL	LIMESTONE	1.0	124.0
239.0	BOND	MT. CARMEL	SANDSTONE	94.0	169.0
90.0	PATOKA	MACOUPIN	LIMESTONE	1.5	318.0
3.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	405.0
-197.0	SHELBURN	DANVILLE	COAL	2.8	605.0
-228.0	CARBONDALE	HERRIN	COAL	3.0	636.0
-282.0	CARBONDALE	BRIAR HILL	COAL	1.6	690.0
-312.0	CARBONDALE	SPRINGFIELD	SILTSTONE	0.0	720.0
-406.0	CARBONDALE	HOUCHIN CREEK	COAL	-	814.0
-529.0	CARBONDALE	COLCHESTER	COAL	-	937.0
-551.0	CARBONDALE	DEKOVEN	COAL	1.8	959.0
-570.0	CARBONDALE	DAVIS	COAL	4.0	978.0
-598.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1006.0

MAPID: 18500183000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 327' W line of NE NW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.833377 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.392927 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2554.0 LOG TYPE:

SOURCE: TIDEWATER OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-11.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-266.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	695.0
-1396.0			LIMESTONE	-	1825.0
-1867.0		BASE BARLOW	LIMESTONE	-	2296.0
-2125.0	RENAULT	BASE RENAULT	LIMESTONE	-	2554.0

MAPID: 18500988000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.82866 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.383366 DATE COLLECTED: 3 / 11 / 1944

SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 2793.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
387.0	MATTOON	FRIENDSVILLE	COAL	4.0	86.0
311.0	BOND	WITT	COAL	1.0	162.0
271.0	BOND	REEL	LIMESTONE	1.8	202.0
213.0	BOND	MT. CARMEL	SANDSTONE	50.0	260.0
165.0	BOND	CARTHAGE	LIMESTONE	8.0	308.0
-16.0	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	489.0
-229.0	SHELBURN	DANVILLE	COAL	4.5	702.0
-261.0	CARBONDALE	HERRIN	COAL	4.7	734.0
-323.0	CARBONDALE	BRIAR HILL	COAL	1.0	796.0
-360.0	CARBONDALE	SPRINGFIELD	COAL	8.0	833.0
-457.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	930.0
-536.0	CARBONDALE	COLCHESTER	COAL	-	1009.0
-570.0	CARBONDALE	DAVIS	COAL	3.5	1043.0
-607.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1080.0

MAPID: 18500988000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.82866 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.383366 DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 2662.0 LOG TYPE:

SOURCE: PARTEE & SLAGTER WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-16.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	489.0
-261.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	734.0
-1427.0			LIMESTONE	-	1900.0
-1902.0		BASE BARLOW	LIMESTONE	-	2375.0
-2189.0	RENAULT	BASE RENAULT	LIMESTONE	-	2662.0

MAPID: 18501240000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835872 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.387156 DATE COLLECTED:
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 2275.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	430.0
-264.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	682.0
-1395.0			LIMESTONE	-	1813.0
-1857.0		BASE BARLOW	LIMESTONE	-	2275.0

MAPID: 18501260000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.833392 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.387167 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2332.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-16.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	450.0
-268.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	702.0
-1412.0			LIMESTONE	-	1846.0
-1898.0		BASE BARLOW	LIMESTONE	-	2332.0

MAPID: 18501480000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835834 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.389108 DATE COLLECTED:
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 2558.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	430.0
-266.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	684.0
-1398.0			LIMESTONE	-	1816.0
-1870.0		BASE BARLOW	LIMESTONE	-	2288.0
-2140.0	RENAULT	BASE RENAULT	LIMESTONE	-	2558.0

MAPID: 18501489000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835908 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.385334 DATE COLLECTED:
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2287.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	432.0
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	680.0
-1401.0			LIMESTONE	-	1826.0
-1862.0		BASE BARLOW	LIMESTONE	-	2287.0

MAPID: 18501489000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835908 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.385334 DATE COLLECTED:
SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 2318.0 LOG TYPE: Electric Log
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-225.0	CARBONDALE	DANVILLE	COAL	-	646.0
-239.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	660.0
-259.0	CARBONDALE	HERRIN	COAL	5.0	680.0
-319.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-369.0	CARBONDALE	SPRINGFIELD	COAL	8.0	790.0
-445.0	CARBONDALE	HOUCHIN CREEK	COAL	-	866.0

MAPID: 18501492000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.83602 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.379606 DATE COLLECTED:
SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2308.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	416.0
-231.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	645.0
-1424.0			LIMESTONE	-	1838.0
-1894.0		BASE BARLOW	LIMESTONE	-	2308.0

MAPID: 18501495000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835981 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.381561 DATE COLLECTED:
SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 2293.0 LOG TYPE:
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-7.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	418.0
-239.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	650.0
-1425.0			LIMESTONE	-	1836.0
-1882.0		BASE BARLOW	LIMESTONE	-	2293.0

MAPID: 18502096000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821414 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.3911 DATE COLLECTED:
SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 2651.0 LOG TYPE:
SOURCE: WEST HUGH WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-24.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	495.0
-273.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	744.0
-1414.0			LIMESTONE	-	1885.0
-1897.0		BASE BARLOW	LIMESTONE	-	2368.0
-2180.0	RENAULT	BASE RENAULT	LIMESTONE	-	2651.0

MAPID: 18504461000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835946 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.38338 DATE COLLECTED:
SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2288.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-4.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	426.0
-246.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	668.0
-1404.0			LIMESTONE	-	1826.0
-1866.0		BASE BARLOW	LIMESTONE	-	2288.0

MAPID: 18504463000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835799 GEOLOGIST: BRISTOL
 CONFIDENTIAL: N LATITUDE: 38.39093 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 2544.0 LOG TYPE:
 SOURCE: TIDEWATER OIL CO. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	427.0	
-265.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	680.0	
-1395.0			LIMESTONE	-	1810.0	
-1869.0		BASE BARLOW	LIMESTONE	-	2284.0	
-2129.0	RENAULT	BASE RENAULT	LIMESTONE	-	2544.0	

MAPID: 18505316000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SW NW SW
 QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.835903 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.383415 DATE COLLECTED: 6 / 10 / 1957
 SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO. 7FR WELL TYPE: Coal Test
 COMMENT: LOCATION MAY BE NW CORNER SE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			UNCONSOLIDATED	15.0	0.0	
450.0			SANDSTONE	13.0	15.0	BROWN
437.0			SANDSTONE	0.3	28.0	GRAY
436.7			ARGILLACEOUS SHALE	9.8	28.3	
426.9			CALCAREOUS SHALE	0.4	38.1	
426.5			COAL	1.1	38.5	
425.4			CLAYSTONE	4.2	39.6	GRAY
421.2			COAL	0.1	43.8	
421.1			CLAYSTONE	0.2	43.9	GRAY
420.9			COAL	0.6	44.1	WITH SHALEY STREAKS
420.3			CLAYSTONE	0.2	44.7	GRAY
420.2			COAL	0.0	44.8	
420.1			CLAYSTONE	7.4	44.9	WITH LIMESTONE NODULES; GRAY
412.7			SANDY SHALE	7.2	52.3	
405.6			GRAY SHALE	17.0	59.4	
388.6			SHALEY CLAYSTONE	5.1	76.4	DK GRAY
383.5			SHALY COAL	3.5	81.5	WITH PYRITE
380.0			SANDY SHALE	2.0	85.0	

MAPID: 18505626000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819069 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.385353 DATE COLLECTED: 6 / 9 / 1967

SURFACE ELEVATION (FT.): LOGGED (FT.): 295.0 LOG TYPE: Drillers Log

SOURCE: POTTS CO. 2029 WELL TYPE: Coal Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	23.0	0.0	SOIL AND CLAY
-	MATTOON		GRAY SHALE	2.0	23.0	
-	MATTOON		SANDSTONE	10.0	25.0	
-	MATTOON		DARK SHALE	10.0	35.0	
-	MATTOON		LIMESTONE	3.0	45.0	
-	MATTOON		GRAY SHALE	37.0	48.0	
-	MATTOON		DARK SHALE	5.0	85.0	
-	MATTOON		SHALE	13.0	90.0	
-	MATTOON		COAL	2.0	103.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		SANDSTONE	10.0	105.0	
-	BOND		SANDSTONE	10.0	115.0	
-	BOND		SANDSTONE	25.0	125.0	
-	BOND	WITT	COAL	3.0	150.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		GRAY SHALE	4.0	153.0	
-	BOND		SANDSTONE	18.0	157.0	
-	BOND		DARK SHALE	28.0	175.0	
-	BOND	FLANNIGAN	COAL	2.0	203.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	2.0	205.0	
-	BOND		GRAY SHALE	14.0	207.0	
-	BOND		SHALE	7.0	221.0	
-	BOND		SANDY SHALE	9.0	228.0	
-	BOND		GRAY SHALE	3.0	237.0	
-	BOND		DARK SHALE	5.0	240.0	
-	BOND		SANDSTONE	13.0	245.0	
-	BOND		SANDSTONE	37.0	258.0	

MAPID: 18505799000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.833321 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.39096 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2298.0 LOG TYPE:

SOURCE: HOCKING, ANDY G. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-13.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	442.0
-266.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	695.0
-1390.0			LIMESTONE	-	1819.0
-1869.0		BASE BARLOW	LIMESTONE	-	2298.0

MAPID: 185238A0016F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NW NW SE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.822127 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.381957 DATE COLLECTED: 5 / 14 / 1969

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 1.6 LOG TYPE: Measured section

SOURCE: WELL TYPE: Outcrop

COMMENT: VARIOUS FIELD NOTES -SCHRODTS STATION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MATTOON	FRIENDSVILLE	COAL	1.6	

MAPID: 18526439000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819037 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.387299 DATE COLLECTED: 10 / 24 / 1978

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 330.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			CLAY	15.0	0.0	
440.0	MATTOON		SANDSTONE	7.0	15.0	
433.0	MATTOON		SANDSTONE	23.0	22.0	
410.0	MATTOON		DARK SHALE	5.0	45.0	
405.0	MATTOON	FRIENDSVILLE	COAL	10.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
395.0	BOND		SANDY SHALE	15.0	60.0	
380.0	BOND		DARK SHALE	20.0	75.0	
360.0	BOND		COAL	5.0	95.0	THICKNESS IS PROBABLY NOT ACCURATE
355.0	BOND		DARK SHALE	16.0	100.0	
339.0	BOND		COAL	2.0	116.0	THICKNESS IS PROBABLY NOT ACCURATE
337.0	BOND		UNDERCLAY	3.0	118.0	
334.0	BOND		DARK SHALE	40.0	121.0	
294.0	BOND	WITT	COAL	3.0	161.0	THICKNESS IS PROBABLY NOT ACCURATE
291.0	BOND		LIMESTONE	1.0	164.0	
290.0	BOND		DARK SHALE	5.0	165.0	
285.0	BOND		LIMESTONE	7.0	170.0	
278.0	BOND		SANDY SHALE	15.0	177.0	
263.0	BOND		DARK SHALE	26.0	192.0	
237.0	BOND	REEL	LIMESTONE	2.0	218.0	
235.0	BOND		DARK SHALE	65.0	220.0	
170.0	BOND		LIMESTONE	15.0	285.0	
155.0	BOND	MT. CARMEL	SANDSTONE	30.0	300.0	

MAPID: 18526440000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820221

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.38826

DATE COLLECTED: 10 / 24 / 1978

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	20.0	0.0	
430.0			SANDSTONE	12.0	20.0	
418.0			SANDY SHALE	8.0	32.0	
410.0			DARK SHALE	47.0	40.0	
363.0			DARK SHALE	8.0	87.0	
355.0			COAL	5.0	95.0	THICKNESS IS PROBABLY NOT ACCURATE
350.0			LIMESTONE	2.0	100.0	
348.0			DARK SHALE	4.0	102.0	
344.0			COAL	5.0	106.0	THICKNESS IS PROBABLY NOT ACCURATE
339.0	BOND		DARK SHALE	24.0	111.0	
315.0	BOND		LIMESTONE	3.0	135.0	
312.0	BOND		DARK SHALE	9.0	138.0	
303.0	BOND		LIMESTONE	4.0	147.0	
299.0	BOND		DARK SHALE	59.0	151.0	
240.0	BOND	REEL	LIMESTONE	2.0	210.0	
238.0	BOND		GRAY SHALE	68.0	212.0	
170.0	BOND	MT. CARMEL	SANDSTONE	35.0	280.0	

MAPID: 18526441000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820288

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.384376

DATE COLLECTED: 11 / 29 / 1977

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 299.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0			UNCONSOLIDATED	15.0	0.0	TOP SOIL
420.0			SHALE	70.0	15.0	
350.0			LIMESTONE	5.0	85.0	
345.0			COAL	2.0	90.0	THICKNESS IS PROBABLY NOT ACCURATE
343.0	BOND		SHALE	68.0	92.0	
275.0	BOND		LIMESTONE	10.0	160.0	
265.0	BOND		SHALE	99.0	170.0	
166.0	BOND	MT. CARMEL	SANDSTONE	30.0	269.0	

MAPID: 18526442000C VERSION: 1 PROJECT: NCRDS92
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820221 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.38826 DATE COLLECTED: 11 / 29 / 1977
SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 309.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			UNCONSOLIDATED	15.0	0.0	
435.0			SHALE	70.0	15.0	
365.0			LIMESTONE	5.0	85.0	
360.0			COAL	2.0	90.0	THICKNESS IS PROBABLY NOT ACCURATE
358.0			SHALE	68.0	92.0	
290.0	BOND		LIMESTONE	10.0	160.0	
280.0	BOND		SHALE	109.0	170.0	
171.0	BOND	MT. CARMEL	SANDSTONE	30.0	279.0	

MAPID: 18526443000C VERSION: 1 PROJECT: NCRDS92
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.822586 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.390175 DATE COLLECTED: 5 / 17 / 1978
SURFACE ELEVATION (FT.): LOGGED (FT.): 307.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	3.0	0.0	SOIL
-			SHALE	12.0	3.0	
-			SHALE	70.0	15.0	
-			LIMESTONE	5.0	85.0	
-			COAL	2.0	90.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SHALE	68.0	92.0	
-			LIMESTONE	10.0	160.0	
-			SHALE	105.0	170.0	
-	BOND	MT. CARMEL	SANDSTONE	32.0	275.0	

MAPID: 18526466000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821405 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.389219 DATE COLLECTED: 10 / 27 / 1979

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 315.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
445.0	MATTOON		SANDSTONE	10.0	15.0	
435.0	MATTOON		SANDSTONE	7.0	25.0	LOG REPORTED "SAND"
428.0	MATTOON		DARK SHALE	7.0	32.0	
421.0	MATTOON	FRIENDSVILLE	COAL	2.0	39.0	THICKNESS IS PROBABLY NOT ACCURATE
419.0	MATTOON		DARK SHALE	2.0	41.0	
417.0	MATTOON	FRIENDSVILLE	COAL	3.0	43.0	THICKNESS IS PROBABLY NOT ACCURATE
414.0	BOND		GRAY SHALE	31.0	46.0	
383.0	BOND		COAL	10.0	77.0	THICKNESS IS PROBABLY NOT ACCURATE
373.0	BOND		LIMESTONE	2.0	87.0	
371.0	BOND		DARK SHALE	5.0	89.0	
366.0	BOND		LIMESTONE	3.0	94.0	
363.0	BOND		GRAY SHALE	13.0	97.0	
350.0	BOND		SANDY SHALE	10.0	110.0	
340.0	BOND		SANDSTONE	12.0	120.0	
328.0	BOND		COAL	2.0	132.0	THICKNESS IS PROBABLY NOT ACCURATE
326.0	BOND		LIMESTONE	1.0	134.0	
325.0	BOND		GRAY SHALE	15.0	135.0	
310.0	BOND		LIMESTONE	10.0	150.0	
300.0	BOND		GRAY SHALE	20.0	160.0	
280.0	BOND		DARK SHALE	24.0	180.0	
256.0	BOND	FLANNIGAN	COAL	2.0	204.0	THICKNESS IS PROBABLY NOT ACCURATE
254.0	BOND		LIMESTONE	2.0	206.0	
252.0	BOND		DARK SHALE	47.0	208.0	
205.0	BOND		SANDY SHALE	15.0	255.0	
190.0	BOND	MT. CARMEL	SANDSTONE	45.0	270.0	

MAPID: 18526641000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 35

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.821405

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.389219

DATE COLLECTED: 6 / 3 / 1980

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 321.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	12.0	0.0	
448.0	MATTOON		SANDSTONE	38.0	12.0	
410.0	MATTOON	FRIENDSVILLE	COAL	5.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
405.0	BOND		LIMESTONE	3.0	55.0	
402.0	BOND		GRAY SHALE	12.0	58.0	
390.0	BOND		DARK SHALE	17.0	70.0	
373.0	BOND		COAL	12.0	87.0	THICKNESS IS PROBABLY NOT ACCURATE
361.0	BOND		LIMESTONE	2.0	99.0	
359.0	BOND		DARK SHALE	19.0	101.0	
340.0	BOND		SANDSTONE	20.0	120.0	
320.0	BOND		DARK SHALE	32.0	140.0	
288.0	BOND		LIMESTONE	8.0	172.0	
280.0	BOND		GRAY SHALE	25.0	180.0	
255.0	BOND	REEL	LIMESTONE	3.0	205.0	
252.0	BOND		DARK SHALE	62.0	208.0	
190.0	BOND	MT. CARMEL	SANDSTONE	51.0	270.0	

MAPID: 18526642000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 35

QUARTERS/FOOTAGES: NE SE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.819005

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.389245

DATE COLLECTED: 10 / 5 / 1979

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LGO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	11.0	0.0	SOIL AND CLAY
449.0			SANDSTONE	39.0	11.0	
410.0			DARK SHALE	20.0	50.0	
390.0			LIMESTONE	2.0	70.0	
388.0			DARK SHALE	25.0	72.0	
363.0			COAL	6.0	97.0	THICKNESS IS PROBABLY NOT ACCURATE
357.0			LIMESTONE	4.0	103.0	
353.0			DARK SHALE	16.0	107.0	
337.0			SANDY SHALE	27.0	123.0	
310.0			LIMESTONE	12.0	150.0	
298.0			GRAY SHALE	98.0	162.0	
200.0			SANDY SHALE	20.0	260.0	
180.0	BOND	MT. CARMEL	SANDSTONE	35.0	280.0	

MAPID: 18526643000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.821405 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.389219 DATE COLLECTED: 10 / 26 / 1979

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			UNCONSOLIDATED	19.0	0.0	SOIL AND CLAY
441.0	MATTOON		SANDSTONE	16.0	19.0	
425.0	MATTOON		SANDSTONE	12.0	35.0	
413.0	MATTOON		DARK SHALE	3.0	47.0	
410.0	MATTOON	FRIENDSVILLE	COAL	3.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
407.0	MATTOON		GRAY SHALE	1.0	53.0	
406.0	MATTOON	FRIENDSVILLE	COAL	1.0	54.0	THICKNESS IS PROBABLY NOT ACCURATE
405.0	BOND		LIMESTONE	1.0	55.0	
404.0	BOND		GRAY SHALE	27.0	56.0	
377.0	BOND		LIMESTONE	2.0	83.0	
375.0	BOND		COAL	10.0	85.0	THICKNESS IS PROBABLY NOT ACCURATE
365.0	BOND		LIMESTONE	5.0	95.0	
360.0	BOND		DARK SHALE	30.0	100.0	
330.0	BOND		SANDSTONE	15.0	130.0	
315.0	BOND		DARK SHALE	17.0	145.0	
298.0	BOND	WITT	COAL	3.0	162.0	THICKNESS IS PROBABLY NOT ACCURATE
295.0	BOND		LIMESTONE	10.0	165.0	
285.0	BOND		SANDSTONE	13.0	175.0	
272.0	BOND		DARK SHALE	87.0	188.0	
185.0	BOND	MT. CARMEL	SANDSTONE	25.0	275.0	

MAPID: 18527373000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820221

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.38826

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	15.0	0.0	
435.0			SANDSTONE	12.0	15.0	
423.0			SANDSTONE	7.0	27.0	
416.0			DARK SHALE	14.0	34.0	
402.0			LIMESTONE	1.0	48.0	
401.0			GRAY SHALE	28.0	49.0	
373.0			LIMESTONE	6.0	77.0	
367.0			COAL	9.0	83.0	THICKNESS IS PROBABLY NOT ACCURATE
358.0			LIMESTONE	2.0	92.0	
356.0			DARK SHALE	14.0	94.0	
342.0			LIMESTONE	2.0	108.0	
340.0			SANDSTONE	26.0	110.0	
314.0			DARK SHALE	29.0	136.0	
285.0			LIMESTONE	3.0	165.0	
282.0			SANDY SHALE	14.0	168.0	
268.0			DARK SHALE	30.0	182.0	
238.0	BOND	REEL	LIMESTONE	2.0	212.0	
236.0	BOND	FLANNIGAN	COAL	3.0	214.0	THICKNESS IS PROBABLY NOT ACCURATE
233.0	BOND		LIMESTONE	2.0	217.0	
231.0	BOND		SANDY SHALE	5.0	219.0	
226.0	BOND		GRAY SHALE	31.0	224.0	
195.0	BOND		SANDY SHALE	28.0	255.0	
167.0	BOND	MT. CARMEL	SANDSTONE	32.0	283.0	

MAPID: 18527465000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.820221 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.38826 DATE COLLECTED: 10 / 2 / 1984

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 315.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	14.0	0.0	
436.0			SANDSTONE	15.0	14.0	
421.0			SANDSTONE	12.0	29.0	
409.0			DARK SHALE	10.0	41.0	
399.0			GRAY SHALE	14.0	51.0	
385.0			DARK SHALE	27.0	65.0	
358.0			COAL	5.0	92.0	THICKNESS IS PROBABLY NOT ACCURATE
353.0			LIMESTONE	2.0	97.0	
351.0			SANDY SHALE	6.0	99.0	
345.0			COAL	3.0	105.0	THICKNESS IS PROBABLY NOT ACCURATE
342.0			DARK SHALE	4.0	108.0	
338.0			GRAY SHALE	9.0	112.0	
329.0			SANDSTONE	6.0	121.0	
323.0			GRAY SHALE	31.0	127.0	
292.0			SANDSTONE	14.0	158.0	
278.0			GRAY SHALE	13.0	172.0	
265.0	BOND	WITT	COAL	4.0	185.0	THICKNESS IS PROBABLY NOT ACCURATE
261.0	BOND		DARK SHALE	21.0	189.0	
240.0	BOND		GRAY SHALE	16.0	210.0	
224.0	BOND		DARK SHALE	19.0	226.0	
205.0	BOND		GRAY SHALE	33.0	245.0	
172.0	BOND	MT. CARMEL	SANDSTONE	37.0	278.0	

MAPID: 18527467000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819037 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.387299 DATE COLLECTED: 3 / 2 / 1983

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 312.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	14.0	0.0	
436.0	MATTOON		SANDSTONE	13.0	14.0	
423.0	MATTOON		SANDSTONE	8.0	27.0	
415.0	MATTOON		GRAY SHALE	6.0	35.0	
409.0	MATTOON	FRIENDSVILLE	COAL	4.0	41.0	THICKNESS IS PROBABLY NOT ACCURATE
405.0	BOND		GRAY SHALE	5.0	45.0	
400.0	BOND		SANDSTONE	10.0	50.0	
390.0	BOND		GRAY SHALE	21.0	60.0	
369.0	BOND		LIMESTONE	3.0	81.0	
366.0	BOND		COAL	17.0	84.0	THICKNESS IS PROBABLY NOT ACCURATE
349.0	BOND		LIMESTONE	4.0	101.0	
345.0	BOND		SANDSTONE	5.0	105.0	
340.0	BOND		COAL	5.0	110.0	THICKNESS IS PROBABLY NOT ACCURATE
335.0	BOND		GRAY SHALE	5.0	115.0	
330.0	BOND		SANDSTONE	25.0	120.0	
305.0	BOND		DARK SHALE	7.0	145.0	
298.0	BOND	WITT	COAL	4.0	152.0	THICKNESS IS PROBABLY NOT ACCURATE
294.0	BOND		LIMESTONE	8.0	156.0	
286.0	BOND		DARK SHALE	41.0	164.0	
245.0	BOND	FLANNIGAN	COAL	2.0	205.0	THICKNESS IS PROBABLY NOT ACCURATE
243.0	BOND		LIMESTONE	2.0	207.0	
241.0	BOND		GRAY SHALE	61.0	209.0	
180.0	BOND	MT. CARMEL	SANDSTONE	42.0	270.0	

MAPID: 18527476000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.829746 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.391999 DATE COLLECTED: 6 / 8 / 1984

SURFACE ELEVATION (FT.): LOGGED (FT.): 271.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	15.0	0.0	
-	MATTOON		GRAY SHALE	23.0	15.0	
-	MATTOON		LIMESTONE	1.0	38.0	
-	MATTOON		GRAY SHALE	3.0	39.0	
-	MATTOON	FRIENDSVILLE	COAL	2.0	42.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		DARK SHALE	24.0	44.0	
-	BOND		SANDSTONE	26.0	68.0	
-	BOND		DARK SHALE	40.0	94.0	
-	BOND		SANDSTONE	9.0	134.0	
-	BOND		DARK SHALE	37.0	143.0	
-	BOND		SANDY SHALE	60.0	180.0	
-	BOND	MT. CARMEL	SANDSTONE	31.0	240.0	

MAPID: 18527477000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.829818 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.388182 DATE COLLECTED: 3 / 6 / 1981

SURFACE ELEVATION (FT.): LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	11.0	0.0	
-	MATTOON		SANDSTONE	24.0	11.0	
-	MATTOON	FRIENDSVILLE	COAL	3.0	35.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		GRAY SHALE	4.0	38.0	
-	BOND		LIMESTONE	2.0	42.0	
-	BOND		GRAY SHALE	54.0	44.0	
-	BOND		SANDSTONE	39.0	98.0	
-	BOND		DARK SHALE	48.0	137.0	
-	BOND		SANDSTONE	5.0	185.0	
-	BOND		SANDSTONE	35.0	190.0	
-	BOND		GRAY SHALE	45.0	225.0	
-	BOND	MT. CARMEL	SANDSTONE	30.0	270.0	

MAPID: 18527478000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819037 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.387299 DATE COLLECTED: 6 / 20 / 1980

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 310.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	26.0	0.0	
434.0			SANDSTONE	10.0	26.0	
424.0			DARK SHALE	7.0	36.0	
417.0			GRAY SHALE	25.0	43.0	
392.0			DARK SHALE	17.0	68.0	
375.0			COAL	6.0	85.0	THICKNESS IS PROBABLY NOT ACCURATE
369.0			LIMESTONE	2.0	91.0	
367.0			DARK SHALE	2.0	93.0	
365.0			SANDY SHALE	45.0	95.0	
320.0			DARK SHALE	31.0	140.0	
289.0			LIMESTONE	7.0	171.0	
282.0			DARK SHALE	23.0	178.0	
259.0	BOND	FLANNIGAN	COAL	3.0	201.0	THICKNESS IS PROBABLY NOT ACCURATE
256.0	BOND		LIMESTONE	2.0	204.0	
254.0	BOND		DARK SHALE	2.0	206.0	
252.0	BOND		GRAY SHALE	21.0	208.0	
231.0	BOND		SANDY SHALE	8.0	229.0	
223.0	BOND		DARK SHALE	37.0	237.0	
186.0	BOND	MT. CARMEL	SANDSTONE	36.0	274.0	

MAPID: 18527479000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 35

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.821405

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.389219

DATE COLLECTED: 5 / 3 / 1983

SURFACE ELEVATION (FT.): 455.0

LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			CLAY	12.0	0.0	
443.0			SANDSTONE	23.0	12.0	
420.0			DARK SHALE	19.0	35.0	
401.0			SANDY SHALE	6.0	54.0	
395.0			DARK SHALE	32.0	60.0	
363.0			COAL	2.0	92.0	THICKNESS IS PROBABLY NOT ACCURATE
361.0			LIMESTONE	4.0	94.0	
357.0			SANDY SHALE	12.0	98.0	
345.0			SANDSTONE	35.0	110.0	
310.0			GRAY SHALE	15.0	145.0	
295.0	BOND	WITT	COAL	5.0	160.0	THICKNESS IS PROBABLY NOT ACCURATE
290.0	BOND		LIMESTONE	3.0	165.0	
287.0	BOND		SANDSTONE	17.0	168.0	
270.0	BOND		DARK SHALE	83.0	185.0	
187.0	BOND	MT. CARMEL	SANDSTONE	47.0	268.0	

MAPID: 18527480000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 35

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.821405

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.389219

DATE COLLECTED: 11 / 22 / 1982

SURFACE ELEVATION (FT.): 455.0

LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0			CLAY	19.0	0.0	
436.0			SANDSTONE	11.0	19.0	
425.0			SANDSTONE	11.0	30.0	
414.0			DARK SHALE	19.0	41.0	
395.0			GRAY SHALE	25.0	60.0	
370.0			COAL	5.0	85.0	THICKNESS IS PROBABLY NOT ACCURATE
365.0			GRAY SHALE	10.0	90.0	
355.0			SANDSTONE	45.0	100.0	
310.0			DARK SHALE	15.0	145.0	
295.0	BOND	WITT	COAL	2.0	160.0	THICKNESS IS PROBABLY NOT ACCURATE
293.0	BOND		LIMESTONE	8.0	162.0	
285.0	BOND		SANDSTONE	17.0	170.0	
268.0	BOND		GRAY SHALE	3.0	187.0	
265.0	BOND		DARK SHALE	23.0	190.0	
242.0	BOND	FLANNIGAN	COAL	2.0	213.0	THICKNESS IS PROBABLY NOT ACCURATE
240.0	BOND		LIMESTONE	6.0	215.0	
234.0	BOND		GRAY SHALE	17.0	221.0	
217.0	BOND		SANDY SHALE	32.0	238.0	
185.0	BOND	MT. CARMEL	SANDSTONE	45.0	270.0	

MAPID: 18527481000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819037 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.387299 DATE COLLECTED: 9 / 8 / 1983

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	15.0	0.0	
445.0	MATTOON		SANDSTONE	25.0	15.0	
420.0	MATTOON		GRAY SHALE	10.0	40.0	
410.0	MATTOON	FRIENDSVILLE	COAL	3.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
407.0	BOND		GRAY SHALE	37.0	53.0	
370.0	BOND		SANDSTONE	12.0	90.0	
358.0	BOND		DARK SHALE	23.0	102.0	
335.0	BOND		SANDSTONE	21.0	125.0	
314.0	BOND		GRAY SHALE	22.0	146.0	
292.0	BOND		SANDSTONE	10.0	168.0	
282.0	BOND		GRAY SHALE	4.0	178.0	
278.0	BOND		DARK SHALE	33.0	182.0	
245.0	BOND	FLANNIGAN	COAL	2.0	215.0	THICKNESS IS PROBABLY NOT ACCURATE
243.0	BOND		LIMESTONE	2.0	217.0	
241.0	BOND		DARK SHALE	31.0	219.0	
210.0	BOND		SANDY SHALE	23.0	250.0	
187.0	BOND	MT. CARMEL	SANDSTONE	27.0	273.0	

MAPID: 18527659000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819037 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.387299 DATE COLLECTED: 10 / 13 / 1987

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 305.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	17.0	0.0	
433.0	MATTOON		SANDSTONE	11.0	17.0	
422.0	MATTOON		SANDSTONE	5.0	28.0	
417.0	MATTOON		LIMESTONE	6.0	33.0	
411.0	MATTOON	FRIENDSVILLE	COAL	5.0	39.0	THICKNESS IS PROBABLY NOT ACCURATE
406.0	BOND		GRAY SHALE	5.0	44.0	
401.0	BOND		LIMESTONE	3.0	49.0	
398.0	BOND		GRAY SHALE	23.0	52.0	
375.0	BOND		LIMESTONE	3.0	75.0	
372.0	BOND		SHALE	6.0	78.0	
366.0	BOND		COAL	7.0	84.0	THICKNESS IS PROBABLY NOT ACCURATE
359.0	BOND		LIMESTONE	2.0	91.0	
357.0	BOND		GRAY SHALE	6.0	93.0	
351.0	BOND		COAL	4.0	99.0	THICKNESS IS PROBABLY NOT ACCURATE
347.0	BOND		GRAY SHALE	12.0	103.0	
335.0	BOND		SANDSTONE	12.0	115.0	
323.0	BOND		SHALE	20.0	127.0	
303.0	BOND		LIMESTONE	12.0	147.0	
291.0	BOND	WITT	COAL	2.0	159.0	THICKNESS IS PROBABLY NOT ACCURATE
289.0	BOND		GRAY SHALE	3.0	161.0	
286.0	BOND		LIMESTONE	2.0	164.0	
284.0	BOND		SANDY SHALE	14.0	166.0	
270.0	BOND		GRAY SHALE	28.0	180.0	
242.0	BOND	REEL	LIMESTONE	2.0	208.0	
240.0	BOND		GRAY SHALE	45.0	210.0	
195.0	BOND		SANDY SHALE	7.0	255.0	
188.0	BOND	MT. CARMEL	SANDSTONE	8.0	262.0	
180.0	BOND	MT. CARMEL	SANDSTONE	5.0	270.0	
175.0	BOND		SHALE	2.0	275.0	
173.0	BOND	MT. CARMEL	SANDSTONE	28.0	277.0	

MAPID: 18527676000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 35 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.819037

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.387299

DATE COLLECTED: 12 / 28 / 1987

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 300.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	17.0	0.0	
433.0	MATTOON		SANDSTONE	5.0	17.0	
428.0	MATTOON		LIMESTONE	1.0	22.0	
427.0	MATTOON		SANDSTONE	6.0	23.0	
421.0	MATTOON		LIMESTONE	1.0	29.0	
420.0	MATTOON		SANDSTONE	12.0	30.0	
408.0	MATTOON		DARK SHALE	8.0	42.0	
400.0	MATTOON	FRIENDSVILLE	COAL	1.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
399.0	BOND		GRAY SHALE	51.0	51.0	
348.0	BOND		LIMESTONE	2.0	102.0	
346.0	BOND		GRAY SHALE	21.0	104.0	
325.0	BOND		SANDSTONE	29.0	125.0	
296.0	BOND		SHALE	4.0	154.0	
292.0	BOND		SANDY SHALE	12.0	158.0	
280.0	BOND		SANDSTONE	10.0	170.0	
270.0	BOND		GRAY SHALE	6.0	180.0	
264.0	BOND		DARK SHALE	24.0	186.0	
240.0	BOND	FLANNIGAN	COAL	3.0	210.0	THICKNESS IS PROBABLY NOT ACCURATE
237.0	BOND		LIMESTONE	5.0	213.0	
232.0	BOND		DARK SHALE	32.0	218.0	
200.0	BOND		SANDY SHALE	25.0	250.0	
175.0	BOND	MT. CARMEL	SANDSTONE	25.0	275.0	

MAPID: 18500389000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 330' N line, 990' W line

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.814271

GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.393174

DATE COLLECTED:

SURFACE ELEVATION (FT.): 494.0 LOGGED (FT.): 1940.0

LOG TYPE:

SOURCE: CONTINENTAL OIL CO.

WELL TYPE: Producer-Oil

COMMENT: WELL MAY BE FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-30.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	524.0	
-272.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	766.0	
-1446.0			LIMESTONE	-	1940.0	

MAPID: 18500989000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 990' S line, 343' W line of SW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.806941 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.388936 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 2573.0 LOG TYPE:
SOURCE: DUNCAN, WALTER WELL TYPE: Producer-Oil
COMMENT: WELL MAY BE FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
93.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	385.0
-148.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	626.0
-1320.0			LIMESTONE	-	1798.0
-1793.0		BASE BARLOW	LIMESTONE	-	2271.0
-2095.0	RENAULT	BASE RENAULT	LIMESTONE	-	2573.0

MAPID: 18502113000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 990' S line, 330' E line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.814208 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.385124 DATE COLLECTED:
SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 2596.0 LOG TYPE:
SOURCE: WEST DRLG-DEPUTY, THE WELL TYPE: Producer-Oil
COMMENT: WELL MAY BE FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
64.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	403.0
-177.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	644.0
-1377.0			LIMESTONE	-	1844.0
-1847.0		BASE BARLOW	LIMESTONE	-	2314.0
-2129.0	RENAULT	BASE RENAULT	LIMESTONE	-	2596.0

MAPID: 18502113000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 990' S line, 330' E line of NW SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.814208 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.385124 DATE COLLECTED:
SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 2750.0 LOG TYPE: Electric Log
SOURCE: WEST DRLG-DEPUTY, THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-143.0	CARBONDALE	DANVILLE	COAL	-	610.0
-150.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	617.0
-179.0	CARBONDALE	HERRIN	COAL	3.0	646.0
-253.0	CARBONDALE	BRIAR HILL	COAL	-	720.0
-276.0	CARBONDALE	SPRINGFIELD	COAL	5.0	743.0
-373.0	CARBONDALE	HOUCHIN CREEK	COAL	-	840.0

MAPID: 18502805000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.799682 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.387029 DATE COLLECTED:
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2507.0 LOG TYPE:
SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
102.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	335.0
-137.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	574.0
-1298.0			LIMESTONE	-	1735.0
-1761.0		BASE BARLOW	LIMESTONE	-	2198.0
-2070.0	RENAULT	BASE RENAULT	LIMESTONE	-	2507.0

MAPID: 18502897000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 74' N line, 574' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.810219 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.386038 DATE COLLECTED:
SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2550.0 LOG TYPE:
SOURCE: MORRIS E H WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1822.0		BASE BARLOW	LIMESTONE	-	2260.0
-2112.0	RENAULT	BASE RENAULT	LIMESTONE	-	2550.0

MAPID: 18505055000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.802289 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.383174 DATE COLLECTED: 10 / 16 / 1961

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2678.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
319.0	BOND	MT. CARMEL	SANDSTONE	64.0	111.0
154.0	PATOKA	MACOUPIN	LIMESTONE	1.0	276.0
80.0	SHELBURN	WEST FRANKLIN	LIMESTONE	14.0	350.0
-128.0	SHELBURN	DANVILLE	COAL	2.0	558.0
-168.0	CARBONDALE	HERRIN	COAL	3.8	598.0
-249.0	CARBONDALE	BRIAR HILL	COAL	3.0	679.0
-263.0	CARBONDALE	SPRINGFIELD	COAL	5.0	693.0
-379.0	CARBONDALE	HOUCHIN CREEK	COAL	1.6	809.0
-390.0	CARBONDALE	SURVANT	COAL	1.3	820.0
-467.0	CARBONDALE	COLCHESTER	COAL	-	897.0
-480.0	CARBONDALE	DEKOVEN	COAL	1.0	910.0
-505.0	CARBONDALE	DAVIS	COAL	3.7	935.0
-534.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	964.0

MAPID: 18505055000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.802289 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.383174 DATE COLLECTED:

SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2536.0 LOG TYPE:

SOURCE: MT. CARMEL DRLG. CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
84.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	350.0
-162.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	596.0
-1334.0			LIMESTONE	-	1768.0
-1804.0		BASE BARLOW	LIMESTONE	-	2238.0
-2102.0	RENAULT	BASE RENAULT	LIMESTONE	-	2536.0

MAPID: 18505440000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80938 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.385321 DATE COLLECTED:
SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 2575.0 LOG TYPE:
SOURCE: KENEIPP RICHARD L JR WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1356.0			LIMESTONE	-	1804.0	
-1826.0		BASE BARLOW	LIMESTONE	-	2274.0	
-2127.0	RENAULT	BASE RENAULT	LIMESTONE	-	2575.0	

MAPID: 18526210000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 6 / 29 / 1976
SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 200.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	21.0	0.0	SOIL AND CLAY
454.0	BOND		SANDSTONE	12.0	21.0	
442.0	BOND		GRAY SHALE	17.0	33.0	
425.0	BOND		SANDSTONE	30.0	50.0	
395.0	BOND		GRAY SHALE	27.0	80.0	
368.0	BOND	FLANNIGAN	COAL	5.0	107.0	THICKNESS IS PROBABLY NOT ACCURATE
363.0	BOND		GRAY SHALE	8.0	112.0	
355.0	BOND		SHALE	47.0	120.0	
308.0	BOND	MT. CARMEL	SANDSTONE	33.0	167.0	

MAPID: 18526246000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 8 / 3 / 1976

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 190.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
460.0	BOND		SANDSTONE	15.0	15.0	
445.0	BOND		GRAY SHALE	15.0	30.0	
430.0	BOND	WITT	COAL	1.0	45.0	THICKNESS IS PROBABLY NOT ACCURATE
429.0	BOND		GRAY SHALE	4.0	46.0	
425.0	BOND		LIMESTONE	10.0	50.0	
415.0	BOND		SANDSTONE	12.0	60.0	
403.0	BOND		GRAY SHALE	4.0	72.0	
399.0	BOND		DARK SHALE	28.0	76.0	
371.0	BOND	FLANNIGAN	COAL	2.0	104.0	THICKNESS IS PROBABLY NOT ACCURATE
369.0	BOND		GRAY SHALE	54.0	106.0	
315.0	BOND	MT. CARMEL	SANDSTONE	30.0	160.0	

MAPID: 18526445000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 9 / 25 / 1978

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 240.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	12.0	0.0	
463.0			LIMESTONE	2.0	12.0	
461.0			SANDSTONE	6.0	14.0	
455.0			DARK SHALE	10.0	20.0	
445.0			COAL	4.0	30.0	THICKNESS IS PROBABLY NOT ACCURATE
441.0			DARK SHALE	16.0	34.0	
425.0			SANDY SHALE	10.0	50.0	
415.0			DARK SHALE	45.0	60.0	
370.0			GRAY SHALE	25.0	105.0	
345.0			DARK SHALE	15.0	130.0	
330.0			SANDY SHALE	31.0	145.0	
299.0	BOND	MT. CARMEL	SANDSTONE	64.0	176.0	

MAPID: 18526446000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 9 / 15 / 1975

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 210.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	10.0	0.0	
465.0	BOND		SANDSTONE	14.0	10.0	
451.0	BOND		DARK SHALE	14.0	24.0	
437.0	BOND	WITT	COAL	3.0	38.0	THICKNESS IS PROBABLY NOT ACCURATE
434.0	BOND		DARK SHALE	9.0	41.0	
425.0	BOND		SANDY SHALE	13.0	50.0	
412.0	BOND		DARK SHALE	20.0	63.0	
392.0	BOND	FLANNIGAN	COAL	8.0	83.0	THICKNESS IS PROBABLY NOT ACCURATE
384.0	BOND		LIMESTONE	1.0	91.0	
383.0	BOND		GRAY SHALE	73.0	92.0	
310.0	BOND		DARK SHALE	15.0	165.0	
295.0	BOND	MT. CARMEL	SANDSTONE	30.0	180.0	

MAPID: 18526448000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 5 / 24 / 1977

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 188.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	10.0	0.0	SOIL AND CLAY
465.0	BOND		SANDSTONE	20.0	10.0	
445.0	BOND		GRAY SHALE	17.0	30.0	
428.0	BOND		LIMESTONE	10.0	47.0	
418.0	BOND		SANDSTONE	13.0	57.0	
405.0	BOND		DARK SHALE	20.0	70.0	
385.0	BOND	FLANNIGAN	COAL	7.0	90.0	THICKNESS IS PROBABLY NOT ACCURATE
378.0	BOND		SHALE	46.0	97.0	
332.0	BOND		LIMESTONE	2.0	143.0	
330.0	BOND		SHALE	15.0	145.0	
315.0	BOND	MT. CARMEL	SANDSTONE	28.0	160.0	

MAPID: 18526449000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 5 / 1 / 1978

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 200.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	12.0	0.0	
463.0	BOND		SANDSTONE	10.0	12.0	
453.0	BOND		DARK SHALE	12.0	22.0	
441.0	BOND		COAL	2.0	34.0	THICKNESS IS PROBABLY NOT ACCURATE
439.0	BOND		GRAY SHALE	7.0	36.0	
432.0	BOND		LIMESTONE	4.0	43.0	
428.0	BOND		SANDSTONE	13.0	47.0	
415.0	BOND		DARK SHALE	33.0	60.0	
382.0	BOND	REEL	LIMESTONE	3.0	93.0	
379.0	BOND		DARK SHALE	11.0	96.0	
368.0	BOND		GRAY SHALE	35.0	107.0	
333.0	BOND		LIMESTONE	4.0	142.0	
329.0	BOND		DARK SHALE	24.0	146.0	
305.0	BOND	MT. CARMEL	SANDSTONE	30.0	170.0	

MAPID: 18526450000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80689 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.391067 DATE COLLECTED: 5 / 1 / 1978

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 198.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	10.0	0.0	
465.0	BOND		SANDSTONE	15.0	10.0	
450.0	BOND		DARK SHALE	22.0	25.0	
428.0	BOND		SANDY SHALE	21.0	47.0	
407.0	BOND		DARK SHALE	17.0	68.0	
390.0	BOND	FLANNIGAN	COAL	5.0	85.0	THICKNESS IS PROBABLY NOT ACCURATE
385.0	BOND		LIMESTONE	3.0	90.0	
382.0	BOND		DARK SHALE	42.0	93.0	
340.0	BOND		GRAY SHALE	10.0	135.0	
330.0	BOND		LIMESTONE	2.0	145.0	
328.0	BOND		GRAY SHALE	23.0	147.0	
305.0	BOND	MT. CARMEL	SANDSTONE	28.0	170.0	

MAPID: 18526644000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.391097

DATE COLLECTED: 3 / 28 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 200.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	15.0	0.0	
460.0	BOND		DARK SHALE	13.0	15.0	
447.0	BOND	WITT	COAL	1.0	28.0	THICKNESS IS PROBABLY NOT ACCURATE
446.0	BOND		LIMESTONE	15.0	29.0	
431.0	BOND		GRAY SHALE	6.0	44.0	
425.0	BOND		DARK SHALE	48.0	50.0	
377.0	BOND	REEL	LIMESTONE	3.0	98.0	
374.0	BOND	FLANNIGAN	COAL	2.0	101.0	THICKNESS IS PROBABLY NOT ACCURATE
372.0	BOND		GRAY SHALE	34.0	103.0	
338.0	BOND		SANDY SHALE	13.0	137.0	
325.0	BOND		DARK SHALE	25.0	150.0	
300.0	BOND	MT. CARMEL	SANDSTONE	25.0	175.0	

MAPID: 18526645000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.391097

DATE COLLECTED: 3 / 28 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 200.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	15.0	0.0	SOIL AND CLAY
460.0	BOND		DARK SHALE	26.0	15.0	
434.0	BOND	WITT	COAL	3.0	41.0	THICKNESS IS PROBABLY NOT ACCURATE
431.0	BOND		SANDY SHALE	2.0	44.0	
429.0	BOND		LIMESTONE	2.0	46.0	
427.0	BOND		SANDSTONE	12.0	48.0	
415.0	BOND		GRAY SHALE	10.0	60.0	
405.0	BOND		DARK SHALE	28.0	70.0	
377.0	BOND	FLANNIGAN	COAL	3.0	98.0	THICKNESS IS PROBABLY NOT ACCURATE
374.0	BOND		GRAY SHALE	73.0	101.0	
301.0	BOND	MT. CARMEL	SANDSTONE	26.0	174.0	

MAPID: 18526646000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.391097

DATE COLLECTED: 3 / 28 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 200.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	21.0	0.0	SOIL AND CLAY
454.0	BOND		DARK SHALE	20.0	21.0	
434.0	BOND	WITT	COAL	2.0	41.0	THICKNESS IS PROBABLY NOT ACCURATE
432.0	BOND		GRAY SHALE	2.0	43.0	
430.0	BOND		LIMESTONE	10.0	45.0	
420.0	BOND		GRAY SHALE	35.0	55.0	
385.0	BOND	FLANNIGAN	COAL	5.0	90.0	THICKNESS IS PROBABLY NOT ACCURATE
380.0	BOND		LIMESTONE	5.0	95.0	
375.0	BOND		GRAY SHALE	75.0	100.0	
300.0	BOND	MT. CARMEL	SANDSTONE	25.0	175.0	

MAPID: 18526647000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.391097

DATE COLLECTED: 4 / 7 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 210.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	18.0	0.0	SOIL AND CLAY
457.0	BOND		DARK SHALE	32.0	18.0	
425.0	BOND		SANDSTONE	15.0	50.0	
410.0	BOND		GRAY SHALE	10.0	65.0	
400.0	BOND		DARK SHALE	26.0	75.0	
374.0	BOND	FLANNIGAN	COAL	5.0	101.0	THICKNESS IS PROBABLY NOT ACCURATE
369.0	BOND		GRAY SHALE	29.0	106.0	
340.0	BOND		DARK SHALE	40.0	135.0	
300.0	BOND	MT. CARMEL	SANDSTONE	35.0	175.0	

MAPID: 18526648000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80689

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.391067

DATE COLLECTED: 8 / 16 / 1979

SURFACE ELEVATION (FT.): 375.0

LOGGED (FT.): 207.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
375.0			UNCONSOLIDATED	14.0	0.0	SOIL AND CLAY
361.0	BOND		SANDSTONE	6.0	14.0	
355.0	BOND		DARK SHALE	5.0	20.0	
350.0	BOND		SANDSTONE	10.0	25.0	
340.0	BOND		DARK SHALE	11.0	35.0	
329.0	BOND	WITT	COAL	1.0	46.0	THICKNESS IS PROBABLY NOT ACCURATE
328.0	BOND		SHALE	10.0	47.0	
318.0	BOND		LIMESTONE	3.0	57.0	
315.0	BOND		SANDY SHALE	12.0	60.0	
303.0	BOND		DARK SHALE	29.0	72.0	
274.0	BOND	FLANNIGAN	COAL	2.0	101.0	THICKNESS IS PROBABLY NOT ACCURATE
272.0	BOND		LIMESTONE	2.0	103.0	
270.0	BOND		DARK SHALE	5.0	105.0	
265.0	BOND		GRAY SHALE	50.0	110.0	
215.0	BOND		SANDY SHALE	10.0	160.0	
205.0	BOND	MT. CARMEL	SANDSTONE	37.0	170.0	

MAPID: 18527482000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.391097

DATE COLLECTED: 3 / 28 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 205.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	15.0	0.0	
460.0			DARK SHALE	5.0	15.0	
455.0			SANDSTONE	10.0	20.0	
445.0			DARK SHALE	12.0	30.0	
433.0	BOND	WITT	COAL	2.0	42.0	THICKNESS IS PROBABLY NOT ACCURATE
431.0	BOND		GRAY SHALE	6.0	44.0	
425.0	BOND		SANDSTONE	8.0	50.0	
417.0	BOND		DARK SHALE	42.0	58.0	
375.0	BOND	FLANNIGAN	COAL	3.0	100.0	THICKNESS IS PROBABLY NOT ACCURATE
372.0	BOND		GRAY SHALE	73.0	103.0	
299.0	BOND	MT. CARMEL	SANDSTONE	29.0	176.0	

MAPID: 18527483000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 13W

SECTION: 36

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.80931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.391097

DATE COLLECTED: 3 / 28 / 1980

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 200.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	17.0	0.0	
458.0	BOND		DARK SHALE	21.0	17.0	
437.0	BOND	WITT	COAL	6.0	38.0	THICKNESS IS PROBABLY NOT ACCURATE
431.0	BOND		GRAY SHALE	3.0	44.0	
428.0	BOND		LIMESTONE	6.0	47.0	
422.0	BOND		SANDSTONE	8.0	53.0	
414.0	BOND		GRAY SHALE	34.0	61.0	
380.0	BOND	FLANNIGAN	COAL	2.0	95.0	THICKNESS IS PROBABLY NOT ACCURATE
378.0	BOND		LIMESTONE	1.0	97.0	
377.0	BOND		DARK SHALE	3.0	98.0	
374.0	BOND		GRAY SHALE	69.0	101.0	
305.0	BOND	MT. CARMEL	SANDSTONE	30.0	170.0	

MAPID: 18527491000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.80931 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.391097 DATE COLLECTED: 3 / 28 / 1980

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 200.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			CLAY	14.0	0.0	
461.0			SANDSTONE	2.0	14.0	
459.0			DARK SHALE	26.0	16.0	
433.0	BOND	WITT	COAL	3.0	42.0	THICKNESS IS PROBABLY NOT ACCURATE
430.0	BOND		SHALE	3.0	45.0	
427.0	BOND		LIMESTONE	8.0	48.0	
419.0	BOND		SANDSTONE	10.0	56.0	
409.0	BOND		GRAY SHALE	32.0	66.0	
377.0	BOND	FLANNIGAN	COAL	1.0	98.0	THICKNESS IS PROBABLY NOT ACCURATE
376.0	BOND		LIMESTONE	2.0	99.0	
374.0	BOND		COAL	2.0	101.0	
372.0	BOND		GRAY SHALE	67.0	103.0	
305.0	BOND	MT. CARMEL	SANDSTONE	30.0	170.0	

MAPID: 18527551000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 13W SECTION: 36 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.816765 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.379493 DATE COLLECTED: 11 / 21 / 1985

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 225.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0			CLAY	21.0	0.0	
429.0	BOND		GRAY SHALE	15.0	21.0	
414.0	BOND		LIMESTONE	1.0	36.0	
413.0	BOND		GRAY SHALE	18.0	37.0	
395.0	BOND	WITT	COAL	2.0	55.0	THICKNESS IS PROBABLY NOT ACCURATE
393.0	BOND		GRAY SHALE	10.0	57.0	
383.0	BOND		LIMESTONE	2.0	67.0	
381.0	BOND		SANDY SHALE	9.0	69.0	
372.0	BOND		GRAY SHALE	12.0	78.0	
360.0	BOND		DARK SHALE	20.0	90.0	
340.0	BOND	FLANNIGAN	COAL	2.0	110.0	THICKNESS IS PROBABLY NOT ACCURATE
338.0	BOND		LIMESTONE	1.0	112.0	
337.0	BOND		GRAY SHALE	17.0	113.0	
320.0	BOND		LIMESTONE	2.0	130.0	
318.0	BOND		DARK SHALE	28.0	132.0	
290.0	BOND		GRAY SHALE	15.0	160.0	
275.0	BOND	MT. CARMEL	SANDSTONE	50.0	175.0	

MAPID: 18502097000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 1 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE

QUADRANGLE: BONE GAP LONGITUDE: -87.916907 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.457482 DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2927.0 LOG TYPE: Electric Log

SOURCE: ROSSI, PAUL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-292.0	CARBONDALE	DANVILLE	COAL	-	696.0	
-306.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	710.0	
-320.0	CARBONDALE	HERRIN	COAL	3.0	724.0	
-334.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	42.0	738.0	
-381.0	CARBONDALE	BRIAR HILL	COAL	-	785.0	
-408.0	CARBONDALE	SPRINGFIELD	COAL	2.0	812.0	
-530.0	CARBONDALE	HOUCHIN CREEK	COAL	-	934.0	

MAPID: 18505322000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 1 QUARTERS/FOOTAGES: SW SW SE SW

QUADRANGLE: BONE GAP LONGITUDE: -87.924387 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.453512 DATE COLLECTED: 6 / 22 / 1957

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 22FR WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.0			UNCONSOLIDATED	32.8	0.0	
387.2			GRAY SHALE	5.5	32.8	WITH SANDY STREAKS
381.7			SANDSTONE	3.1	38.3	WITH SHALEY STREAKS; GRAY
378.6			COAL	0.0	41.4	
378.6			GRAY SHALE	0.4	41.4	
378.2			SANDSTONE	1.6	41.8	WITH SHALEY STREAKS; GRAY
376.6			COAL	0.0	43.4	
376.6			GRAY SHALE	10.3	43.4	WITH SANDY STREAKS
366.2			GRAY SHALE	6.2	53.8	
360.1			DARK SHALE	1.0	59.9	
359.1			FOSSILIFEROUS SHALE	2.0	60.9	
357.1			BLACK SHALE	0.2	62.9	WITH COAL AND PYRITE STREAKS
356.9			COAL	0.5	63.1	
356.4			BLACK SHALE	0.1	63.6	
356.3			DARK SHALE	0.2	63.7	WITH COAL STREAKS
356.1			COAL	0.0	63.9	
356.1			CLAYSTONE	0.2	63.9	GRAY
355.9			COAL	0.6	64.1	WITH SHALEY STREAKS
355.3			CALCAREOUS CLAYSTONE	6.0	64.7	GRAY
349.3			CALCAREOUS CLAYSTONE	0.9	70.7	GRAY
348.4			CALCAREOUS SHALE	6.1	71.6	
342.3			GRAY SHALE	7.3	77.7	WITH SANDY STREAKS

MAPID: 18502911000C VERSION: 1 PROJECT: AVAIL

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE

QUADRANGLE: BONE GAP LONGITUDE: -87.93796 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.44665 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 1092.0 LOG TYPE: Electric Log

SOURCE: BLACK & BLACK OIL CO WELL TYPE: Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-614.0	CARBONDALE	COLCHESTER	COAL	0.5	1008.0
-693.0	CARBONDALE	LOWER DEKOVEN	COAL	2.5	1087.0
-696.0	CARBONDALE	DAVIS	COAL	2.0	1090.0

MAPID: 18502911000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE

QUADRANGLE: BONE GAP LONGITUDE: -87.93796 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.44665 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2960.0 LOG TYPE: Electric Log

SOURCE: BLACK & BLACK OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-310.0	CARBONDALE	HERRIN	COAL	3.0	704.0
-375.0	CARBONDALE	BRIAR HILL	COAL	-	769.0
-402.0	CARBONDALE	SPRINGFIELD	COAL	3.0	796.0
-513.0	CARBONDALE	HOUCHIN CREEK	COAL	-	907.0

MAPID: 18502136000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 13 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE
QUADRANGLE: BONE GAP LONGITUDE: -87.917034 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.428002 DATE COLLECTED:
SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2592.0 LOG TYPE: Electric Log
SOURCE: ROSSI, PAUL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-290.0	CARBONDALE	DANVILLE	COAL	-	696.0
-306.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	712.0
-320.0	CARBONDALE	HERRIN	COAL	4.0	726.0
-331.0	CARBONDALE	VERMILIONVILLE	SANDSTONE/SILTSTONE	43.0	737.0
-374.0	CARBONDALE	BRIAR HILL	COAL	-	780.0
-378.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	9.0	784.0
-402.0	CARBONDALE	SPRINGFIELD	COAL	4.0	808.0
-419.0	CARBONDALE	SS BELOW NO. 5		25.0	825.0
-522.0	CARBONDALE	HOUCHIN CREEK	COAL	-	928.0

MAPID: 18502099000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: BONE GAP LONGITUDE: -87.942843 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.430082 DATE COLLECTED:
SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 2990.0 LOG TYPE: Electric Log
SOURCE: HAYES, BANDER J. DRLG. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-342.0	CARBONDALE	HERRIN	COAL	3.0	738.0
-419.0	CARBONDALE	SPRINGFIELD	COAL	3.0	815.0
-541.0	CARBONDALE	HOUCHIN CREEK	COAL	-	937.0

MAPID: 18525981000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 14W

SECTION: 14

QUARTERS/FOOTAGES: 133' S line, 757' W line of SE

QUADRANGLE: BONE GAP

LONGITUDE: -87.936614

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.423926

DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.2

LOGGED (FT.): 831.0

LOG TYPE: Survey Core Study

SOURCE: AMAX C. C.

BB-6

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.2			NO RECORD	732.0	0.0	
-335.8	CARBONDALE	BRERETON	LIMESTONE	2.0	732.0	
-337.8	CARBONDALE	ANNA	SHALE	1.7	734.0	DK GRAY
-339.5	CARBONDALE	HERRIN	UNCLASSIFIED	0.1	735.7	GAP IN CORE
-343.8			CLAYSTONE	2.0	740.0	GAP IN CORE
-397.8			COAL	0.3	794.0	
-398.1			SHALE	5.7	794.3	GAP IN CORE; MED GRAY
-403.8			SHALE	2.0	800.0	
-405.8			SANDSTONE	1.1	802.0	LT GRAY
-406.9			SILTSTONE	2.9	803.1	MED GRAY
-409.8			SILTSTONE	4.0	806.0	
-413.8			SHALE	0.8	810.0	
-414.6			LIMESTONE	1.0	810.8	GAP IN CORE
-415.8			SHALE	3.0	812.0	DK GRAY
-418.8			SHALE	2.2	815.0	MED GRAY
-421.0			COAL	0.8	817.2	
-421.8			SHALE	4.0	818.0	GAP IN CORE; MED GRAY
-429.8			SHALE	1.7	826.0	MED GRAY
-431.5			CLAYSTONE	3.2	827.7	MED GRAY
-434.7			SHALE	0.4	830.9	DK GRAY

MAPID: 18501540000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW
 QUADRANGLE: BONE GAP LONGITUDE: -87.959359 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.415247 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 3040.0 LOG TYPE: Electric Log
 SOURCE: ARVIN DRILLING WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-359.0	CARBONDALE	DANVILLE	COAL	-	754.0
-371.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	766.0
-385.0	CARBONDALE	HERRIN	COAL	3.0	780.0
-399.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	38.0	794.0
-451.0	CARBONDALE	BRIAR HILL	COAL	-	846.0
-457.0	CARBONDALE	CANTON	SILTSTONE	6.0	852.0
-487.0	CARBONDALE	SPRINGFIELD	COAL	5.0	882.0
-501.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	4.0	896.0
-599.0	CARBONDALE	HOUCHIN CREEK	COAL	-	994.0

MAPID: 18526038000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 22 QUARTERS/FOOTAGES: 47' S line, 435' W line of SE SE
 QUADRANGLE: BONE GAP LONGITUDE: -87.952126 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.408926 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 394.6 LOGGED (FT.): 904.0 LOG TYPE: Survey Core Study
 SOURCE: AMAX C. C. BB-30 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
394.6			NO RECORD	787.0	0.0
-392.4			SHALE	0.4	787.0 MED GRAY
-392.8			LIMESTONE	1.0	787.4
-393.8			COAL	0.1	788.4
-393.8			CLAYSTONE	1.0	788.4
-394.8	CARBONDALE	ANNA	SHALE	0.6	789.4 1.55 WAS IN THICKNESS; DK GRAY
-395.4	CARBONDALE	HERRIN	COAL	6.0	790.0
-401.4			CLAYSTONE	3.0	796.0 GAP IN CORE; MED GRAY
-482.4			BLACK SHALE	2.6	877.0
-485.0	CARBONDALE	DYKERSBURG	SHALE	3.4	879.6 MED GRAY
-488.4			SHALE	7.0	883.0
-495.4			SHALE	3.0	890.0 GAP IN CORE
-507.4			CLAYSTONE	2.0	902.0 MED GRAY

MAPID: 18526595000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N, 1007' W, SE/c
QUADRANGLE: BONE GAP LONGITUDE: -87.95249 GEOLOGIST: MORSE
CONFIDENTIAL: N LATITUDE: 38.409703 DATE COLLECTED: 8 / 21 / 1980
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 3050.0 LOG TYPE: Electric Log
SOURCE: VIKING OIL 1 WELL TYPE: Coal Test
COMMENT: DENNIS HORN B LEASE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
81.0	BOND	CARTHAGE	LIMESTONE	4.0	318.0
-21.0	SHELBURN		BLACK SHALE	2.0	420.0
-76.0	SHELBURN		SANDSTONE	39.0	475.0
-115.0	SHELBURN		BLACK SHALE	2.0	514.0
-125.0	SHELBURN	WEST FRANKLIN	LIMESTONE	22.0	524.0
-360.0	SHELBURN	DANVILLE	COAL	4.0	759.0
-372.0	SHELBURN	BANKSTON FORK	LIMESTONE	6.0	771.0
-382.0	SHELBURN	BRERETON	LIMESTONE	5.0	781.0
-387.0	CARBONDALE	ANNA	BLACK SHALE	3.0	786.0
-390.0	CARBONDALE	HERRIN	COAL	4.0	789.0
-413.0	CARBONDALE		SANDSTONE	20.0	812.0
-454.0	CARBONDALE	BRIAR HILL	COAL	1.0	853.0
-458.0	CARBONDALE	ST. DAVID	LIMESTONE	3.0	857.0
-471.0	CARBONDALE	TURNER MINE	SHALE	2.0	870.0
-473.0	CARBONDALE	DYKERSBURG	SHALE	13.0	872.0
-486.0	CARBONDALE	SPRINGFIELD	COAL	5.0	885.0
-599.0	CARBONDALE	EXCELLO	SHALE	2.0	998.0
-601.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1000.0
-615.0	CARBONDALE	SURVANT	COAL	2.0	1014.0
-670.0	CARBONDALE	MECCA QUARRY	SHALE	3.0	1069.0
-673.0	CARBONDALE	COLCHESTER	COAL	1.0	1072.0
-683.0	CARBONDALE		SANDSTONE	53.0	1082.0
-751.0	CARBONDALE	SEELYVILLE	COAL	6.0	1150.0
-778.0	TRADEWATER	CARRIER MILLS	SHALE	2.0	1177.0

MAPID: 18502116000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NW
 QUADRANGLE: BONE GAP LONGITUDE: -87.942942 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.418933 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 3004.0 LOG TYPE: Electric Log
 SOURCE: ROSSI, PAUL WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-340.0	CARBONDALE	DANVILLE	COAL	-	736.0	
-354.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	750.0	
-368.0	CARBONDALE	HERRIN	COAL	3.0	764.0	
-382.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	8.0	778.0	
-414.0	CARBONDALE	BRIAR HILL	COAL	-	810.0	
-434.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	13.0	830.0	
-454.0	CARBONDALE	SPRINGFIELD	COAL	5.0	850.0	
-478.0	CARBONDALE	SS BELOW NO. 5	SILTSTONE	20.0	874.0	
-574.0	CARBONDALE	HOUCHIN CREEK	COAL	-	970.0	

MAPID: 18525990000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 23 QUARTERS/FOOTAGES: 105' S line, 619' W line of SE
 QUADRANGLE: BONE GAP LONGITUDE: -87.937443 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.409104 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 396.3 LOGGED (FT.): 1151.0 LOG TYPE: Survey Core Study
 SOURCE: AMAX C. C. BB-28 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.3			NO RECORD	766.0	0.0	
-369.7	CARBONDALE	BRERETON	LIMESTONE	3.6	766.0	MED GRAY
-373.3	CARBONDALE	ANNA	SHALE	2.4	769.6	DK GRAY
-375.7	CARBONDALE	HERRIN	COAL	4.0	772.0	REMOVED BY COMPANY
-379.7			CLAYSTONE	2.0	776.0	GAP IN CORE; LT GRAY
-457.7			SHALE	8.0	854.0	MED GRAY
-465.7			SHALE	1.0	862.0	
-466.7	CARBONDALE	SPRINGFIELD	COAL	5.0	863.0	REMOVED BY COMPANY
-471.7			CLAYSTONE	2.0	868.0	GAP IN CORE; OLV GRY
-728.7			SANDSTONE	8.0	1125.0	LT GRAY
-736.7			SANDSTONE	8.0	1133.0	
-744.7			SANDSTONE	2.0	1141.0	
-746.7			COAL	6.0	1143.0	REMOVED BY COMPANY
-752.7			CLAYSTONE	2.0	1149.0	

MAPID: 18501505000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 1S 14W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: BONE GAP **LONGITUDE:** -87.919524 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.41698 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 2998.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-301.0	CARBONDALE	DANVILLE	COAL	-	708.0	
-313.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	720.0	
-325.0	CARBONDALE	HERRIN	COAL	3.0	732.0	
-377.0	CARBONDALE	BRIAR HILL	COAL	-	784.0	
-381.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	20.0	788.0	
-416.0	CARBONDALE	SPRINGFIELD	COAL	4.0	823.0	
-525.0	CARBONDALE	HOUCHIN CREEK	COAL	-	932.0	

MAPID: 18525985000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 14W **SECTION:** 24 **QUARTERS/FOOTAGES:** 67' S line, 363' E line of SW SE
QUADRANGLE: BONE GAP **LONGITUDE:** -87.917418 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.408883 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.2 **LOGGED (FT.):** 890.0 **LOG TYPE:** Survey Core Study
SOURCE: AMAX C. C. BB-17 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.2			NO RECORD	782.0	0.0	
-363.8			SANDSTONE	4.0	782.0	LT GRAY
-367.8			SANDY SHALE	1.0	786.0	
-368.8			SANDSTONE	1.0	787.0	LT GRAY
-369.8			SHALE	2.5	788.0	MED GRAY
-372.3			BLACK SHALE	1.5	790.5	
-373.8			LIMESTONE	2.0	792.0	LT GRAY
-375.8			LIMESTONE	2.0	794.0	DK GRAY
-377.8	CARBONDALE	ANNA	BLACK SHALE	4.0	796.0	
-381.8	CARBONDALE	ANNA	BLACK SHALE	1.5	800.0	
-383.3			CLAYSTONE	1.0	801.5	GAP IN CORE
-453.8			GRAY SHALE	6.0	872.0	
-459.8			SILTSTONE	3.6	878.0	MED GRAY
-463.4	CARBONDALE	DYKERSBURG	SHALE	2.4	881.6	MED GRAY
-465.8	CARBONDALE	DYKERSBURG	SHALE	6.0	884.0	DK GRAY

MAPID: 18526039000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 24 QUARTERS/FOOTAGES: 101' N line, 62' E line of SE NW

QUADRANGLE: BONE GAP LONGITUDE: -87.920848 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.419486 DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.6 LOGGED (FT.): 1085.0 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. BB-34 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
404.6			NO RECORD	729.0	0.0	
-324.4	CARBONDALE	BRERETON	LIMESTONE	1.7	729.0	MED GRAY
-325.1	CARBONDALE	ANNA	SHALE	1.8	729.7	DK GRAY
-326.9	CARBONDALE	HERRIN	COAL	0.0	731.5	REMOVED BY CO. - (GAP IN CORE)
-333.4			CLAYSTONE	0.4	738.0	DK GRAY
-333.8			CLAYSTONE	2.0	738.4	GAP IN CORE; LT GRAY
-407.4			BLACK SHALE	2.6	812.0	
-410.0	CARBONDALE	HERRIN	COAL	0.0	814.6	REMOVED BY CO. - (GAP IN CORE)
-414.9			CLAYSTONE	0.5	819.5	GAP IN CORE; MED GRAY
-658.4			SANDSTONE	13.0	1063.0	LT GRAY
-671.4	SPOON	SEELYVILLE	COAL	0.0	1076.0	REMOVED BY CO., (GAP IN CORE)
-677.4			SILTY CLAYSTONE	3.1	1082.0	MED GRAY

MAPID: 18526273000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 1S 14W

SECTION: 24

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: BONE GAP

LONGITUDE: -87.912462

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.422381

DATE COLLECTED: 12 / 21 / 1976

SURFACE ELEVATION (FT.):

LOGGED (FT.): 355.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	19.0	0.0	
-			SHALE	4.0	19.0	
-	MATTOON		SANDSTONE	15.0	23.0	
-	MATTOON		SHALE	21.0	38.0	
-	MATTOON	FRIENDSVILLE	COAL	1.0	59.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	8.0	60.0	
-			SHALE	30.0	68.0	
-			SANDY SHALE	20.0	98.0	
-			SANDSTONE	12.0	118.0	
-			SHALE	30.0	130.0	
-			SANDSTONE	45.0	160.0	
-			SHALE	65.0	205.0	
-			SANDSTONE	48.0	270.0	
-			LIMESTONE	9.0	318.0	
-			SANDSTONE	21.0	327.0	
-			SHALE	5.0	348.0	
-			LIMESTONE	2.0	353.0	

MAPID: 18501243000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 1S 14W

SECTION: 25

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

QUADRANGLE: BONE GAP

LONGITUDE: -87.919799

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.400408

DATE COLLECTED:

SURFACE ELEVATION (FT.): 417.0

LOGGED (FT.): 3020.0

LOG TYPE: Electric Log

SOURCE: V T DRILLING CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-357.0	CARBONDALE	DANVILLE	COAL	-	774.0	
-369.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	786.0	
-373.0	CARBONDALE	ANVIL ROCK	CALCAREOUS SANDSTONE	6.0	790.0	
-387.0	CARBONDALE	HERRIN	COAL	4.0	804.0	
-393.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	46.0	810.0	
-449.0	CARBONDALE	BRIAR HILL	COAL	-	866.0	
-499.0	CARBONDALE	SPRINGFIELD	COAL	7.0	916.0	

MAPID: 18505722000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 25 QUARTERS/FOOTAGES: 90' N line, 207' E line of NE SE SE

QUADRANGLE: BONE GAP LONGITUDE: -87.912354 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.397349 DATE COLLECTED: 0 / 0 / 1968

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 195.0 LOG TYPE: Drillers Log

SOURCE: PAUL W. POTTS CO. NF5211 WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
412.0			UNCONSOLIDATED	16.0	0.0	SOIL AND CLAY
396.0	MATTOON		LIMESTONE	2.0	16.0	
394.0	MATTOON		GRAY SHALE	2.0	18.0	
392.0	MATTOON		SANDSTONE	15.0	20.0	
377.0	MATTOON		SANDSTONE	3.0	35.0	
374.0	MATTOON		DARK SHALE	18.0	38.0	
356.0	MATTOON	KEENSBURG	COAL	2.0	56.0	THICKNESS IS PROBABLY NOT ACCURATE
354.0	MATTOON		NO RECORD	22.0	58.0	NO RECORD GIVEN IN LOG
332.0	MATTOON		SHALE	10.0	80.0	
322.0	MATTOON		DARK SHALE	18.0	90.0	
304.0	MATTOON	FRIENDSVILLE	COAL	2.0	108.0	THICKNESS IS PROBABLY NOT ACCURATE
302.0			GRAY SHALE	2.0	110.0	
300.0			LIMESTONE	3.0	112.0	
297.0			DARK SHALE	15.0	115.0	
282.0			LIGHT SHALE	10.0	130.0	
272.0			SANDSTONE	55.0	140.0	

MAPID: 18526155000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 25 QUARTERS/FOOTAGES: 1700' N line, 73' E line of NE

QUADRANGLE: BONE GAP LONGITUDE: -87.91178 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.403949 DATE COLLECTED: 3 / 12 / 1976

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 365.0 LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH CO. 1 WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.0			UNCONSOLIDATED	15.0	0.0	
413.0			SANDY CLAY	5.0	15.0	
408.0			SAND	6.0	20.0	
402.0	MATTOON		GRAY SHALE	11.0	26.0	
391.0	MATTOON		COAL	1.0	37.0	THICKNESS IS PROBABLY NOT ACCURATE
390.0	MATTOON		LIMESTONE	2.0	38.0	
388.0	MATTOON		GRAY SHALE	17.0	40.0	
371.0	MATTOON		DARK SHALE	21.0	57.0	
350.0	MATTOON	KEENSBURG	COAL	2.0	78.0	THICKNESS IS PROBABLY NOT ACCURATE
348.0	MATTOON		SANDY SHALE	20.0	80.0	
328.0	MATTOON		SANDY SHALE	10.0	100.0	
318.0	MATTOON		DARK SHALE	19.0	110.0	
299.0	MATTOON	FRIENDSVILLE	COAL	2.0	129.0	THICKNESS IS PROBABLY NOT ACCURATE
297.0			LIMESTONE	2.0	131.0	
295.0			DARK SHALE	13.0	133.0	
282.0			COAL	2.0	146.0	THICKNESS IS PROBABLY NOT ACCURATE
280.0			GRAY SHALE	17.0	148.0	
263.0			DARK SHALE	20.0	165.0	
243.0			SANDY SHALE	12.0	185.0	
231.0			DARK SHALE	12.0	197.0	
219.0			LIMESTONE	2.0	209.0	
217.0			SANDY SHALE	9.0	211.0	
208.0			DARK SHALE	70.0	220.0	
138.0			SANDY SHALE	30.0	290.0	
108.0			DARK SHALE	7.0	320.0	
101.0			SANDSTONE	13.0	327.0	
88.0			SANDSTONE	25.0	340.0	

MAPID: 18527528000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 25 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: BONE GAP LONGITUDE: -87.912838

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.394835

DATE COLLECTED: 9 / 13 / 1985

SURFACE ELEVATION (FT.): LOGGED (FT.): 315.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	21.0	0.0	
-			SAND	4.0	21.0	
-			UNCONSOLIDATED	11.0	25.0	
-			LIMESTONE	2.0	36.0	
-			CLAYSTONE	18.0	38.0	LOG REPORTED "MUD"
-			COAL	3.0	56.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	9.0	59.0	
-			LIMESTONE	1.0	68.0	
-			GRAY SHALE	61.0	69.0	
-			SANDSTONE	41.0	130.0	
-			SANDY SHALE	24.0	171.0	
-			LIMESTONE	3.0	195.0	
-			GRAY SHALE	42.0	198.0	
-			SANDY SHALE	40.0	240.0	
-			SANDSTONE	35.0	280.0	

MAPID: 18500390000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: BONE GAP LONGITUDE: -87.940845

GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.402299

DATE COLLECTED:

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 3016.0

LOG TYPE: Electric Log

SOURCE: FLEMING, F.J. DRLG CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-355.0	CARBONDALE	DANVILLE	COAL	-	755.0	
-370.0	CARBONDALE	ANVIL ROCK	CALCAREOUS SANDSTONE	8.0	770.0	
-387.0	CARBONDALE	HERRIN	COAL	3.0	787.0	
-394.0	CARBONDALE	VERMILIONVILLE	SILTSTONE	12.0	794.0	
-444.0	CARBONDALE	BRIAR HILL	COAL	-	844.0	
-448.0	CARBONDALE	CANTON	CALCAREOUS SANDSTONE	16.0	848.0	
-490.0	CARBONDALE	SPRINGFIELD	COAL	7.0	890.0	
-592.0	CARBONDALE	HOUCHIN CREEK	COAL	-	992.0	

MAPID: 18502752000C

VERSION: 1

PROJECT: AVAIL

COUNTY: WABASH

TWP/RNG: 1S 14W

SECTION: 26

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

QUADRANGLE: BONE GAP

LONGITUDE: -87.938587

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.39676

DATE COLLECTED:

SURFACE ELEVATION (FT.): 402.0

LOGGED (FT.): 1133.5

LOG TYPE: Electric Log

SOURCE: ALBERT MORRIS DRLG & PROD

WELL TYPE: Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-652.0	CARBONDALE	COLCHESTER	COAL	0.5	1054.0	
-726.0	CARBONDALE	LOWER DEKOVEN	COAL	1.5	1128.0	
-728.0	CARBONDALE	DAVIS	COAL	3.5	1130.0	

MAPID: 18500393000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 2356' S, 2348' E, NW/c
 QUADRANGLE: BONE GAP LONGITUDE: -87.95958 GEOLOGIST: MORSE
 CONFIDENTIAL: N LATITUDE: 38.402338 DATE COLLECTED: 11 / 29 / 1946
 SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 3009.0 LOG TYPE: Electric Log
 SOURCE: PHILLIPS 1 WELL TYPE: Coal Test
 COMMENT: HERSCHEL FARM

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
78.0	BOND	CARTHAGE	LIMESTONE	3.0	319.0
-3.0	SHELBURN		BLACK SHALE	2.0	400.0
-43.0	SHELBURN		SANDSTONE	70.0	440.0
-113.0	SHELBURN		BLACK SHALE	1.0	510.0
-122.0	SHELBURN	WEST FRANKLIN	LIMESTONE	21.0	519.0
-347.0	SHELBURN	DANVILLE	COAL	4.0	744.0
-362.0	SHELBURN	BANKSTON FORK	LIMESTONE	5.0	759.0
-377.0	SHELBURN	BRERETON	LIMESTONE	3.0	774.0
-380.0	CARBONDALE	ANNA	BLACK SHALE	5.0	777.0
-385.0	CARBONDALE	HERRIN	COAL	4.0	782.0
-393.0	CARBONDALE		SANDSTONE	24.0	790.0
-438.0	CARBONDALE	BRIAR HILL	COAL	2.0	835.0
-441.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	838.0
-456.0	CARBONDALE	TURNER MINE	SHALE	3.0	853.0
-459.0	CARBONDALE	DYKERSBURG	SHALE	14.0	856.0
-473.0	CARBONDALE	SPRINGFIELD	COAL	6.0	870.0
-578.0	CARBONDALE	EXCELLO	SHALE	5.0	975.0
-589.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	986.0
-600.0	CARBONDALE	SURVANT	COAL	3.0	997.0
-656.0	CARBONDALE	MECCA QUARRY	SHALE	2.0	1053.0
-658.0	CARBONDALE	COLCHESTER	COAL	0.5	1055.0
-663.0	CARBONDALE		SANDSTONE	71.0	1060.0
-736.0	CARBONDALE	SEELYVILLE	COAL	6.0	1133.0
-765.0	TRADEWATER	CARRIER MILLS	SHALE	2.0	1162.0

MAPID: 18500993000C

VERSION: 1

COUNTY: WABASH

QUADRANGLE: BONE GAP

CONFIDENTIAL: N

SURFACE ELEVATION (FT.): 397.0

SOURCE: GILLIAM OIL CO.

COMMENT:

TWP/RNG: 1S 14W

SECTION: 27

LONGITUDE: -87.957265

LATITUDE: 38.402332

LOGGED (FT.): 3037.0

PROJECT: CIRC 431

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

GEOLOGIST: HOPKINS

DATE COLLECTED:

LOG TYPE: Electric Log

WELL TYPE: Producer-Oil

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-347.0	CARBONDALE	DANVILLE	COAL	-	744.0	
-361.0	CARBONDALE	BANKSTON FORK	LIMESTONE	-	758.0	
-379.0	CARBONDALE	HERRIN	COAL	4.0	776.0	
-399.0	CARBONDALE	VERMILIONVILLE	CALCAREOUS SANDSTONE	24.0	796.0	
-439.0	CARBONDALE	BRIAR HILL	COAL	-	836.0	
-475.0	CARBONDALE	SPRINGFIELD	COAL	7.0	872.0	
-585.0	CARBONDALE	HOUCHIN CREEK	COAL	-	982.0	

MAPID: 18500993000C VERSION: 2

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW SW NE
 QUADRANGLE: BONE GAP LONGITUDE: -87.957265 GEOLOGIST: MORSE
 CONFIDENTIAL: N LATITUDE: 38.402332 DATE COLLECTED: 11 / 11 / 1946
 SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 3037.0 LOG TYPE: Electric Log
 SOURCE: GUILLIAM-ASPEN 1 WELL TYPE: Coal Test
 COMMENT: L GARNER FIELD

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
71.0	BOND	CARTHAGE	LIMESTONE	4.0	326.0
-18.0	PATOKA		BLACK SHALE	1.0	415.0
-62.0	PATOKA		SANDSTONE	49.0	459.0
-113.0	PATOKA		BLACK SHALE	2.0	510.0
-115.0	PATOKA	CHAPEL	COAL	0.5	512.0
-123.0	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	520.0
-349.0	SHELBURN	DANVILLE	COAL	4.0	746.0
-361.0	SHELBURN	BANKSTON FORK	LIMESTONE	8.0	758.0
-373.0	SHELBURN	BRERETON	LIMESTONE	4.0	770.0
-377.0	CARBONDALE	ANNA	BLACK SHALE	2.0	774.0
-379.0	CARBONDALE	HERRIN	COAL	4.0	776.0
-401.0	CARBONDALE		SANDSTONE	20.0	798.0
-440.0	CARBONDALE	BRIAR HILL	COAL	2.0	837.0
-459.0	CARBONDALE	TURNER MINE	SHALE	4.0	856.0
-463.0	CARBONDALE	DYKERSBURG	SHALE	13.0	860.0
-476.0	CARBONDALE	SPRINGFIELD	COAL	5.0	873.0
-583.0	CARBONDALE	EXCELLO	SHALE	2.0	980.0
-586.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	983.0
-599.0	CARBONDALE	SURVANT	COAL	2.0	996.0
-655.0	CARBONDALE	MECCA QUARRY	SHALE	3.0	1052.0
-658.0	CARBONDALE	COLCHESTER	COAL	1.0	1055.0
-673.0	CARBONDALE		SANDSTONE	58.0	1070.0
-736.0	CARBONDALE	SEELYVILLE	COAL	5.0	1133.0
-760.0	TRADEWATER	CARRIER MILLS	SHALE	2.0	1157.0

MAPID: 18500994000C **VERSION:** 1 **PROJECT:** CO2 SEQ
COUNTY: WABASH **TWP/RNG:** 1S 14W **SECTION:** 27 **QUARTERS/FOOTAGES:** 332' S, 1678' W, NE/c
QUADRANGLE: BONE GAP **LONGITUDE:** -87.954858 **GEOLOGIST:** MORSE
CONFIDENTIAL: N **LATITUDE:** 38.40789 **DATE COLLECTED:** 8 / 7 / 1947
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 2963.0 **LOG TYPE:** Electric Log
SOURCE: CHERRY & KIDD 1 **WELL TYPE:** Coal Test
COMMENT: GRAY-TANQUARY FARM

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
69.0	BOND	CARTHAGE	LIMESTONE	5.0	330.0
-25.0	SHELBURN		BLACK SHALE	3.0	424.0
-67.0	SHELBURN		SANDSTONE	54.0	466.0
-123.0	SHELBURN	WEST FRANKLIN	BLACK SHALE	2.0	522.0
-133.0	SHELBURN		LIMESTONE	23.0	532.0
-365.0	SHELBURN		COAL	5.0	764.0
-380.0	SHELBURN	BANKSTON FORK	LIMESTONE	6.0	779.0
-388.0	SHELBURN	BRERETON	LIMESTONE	5.0	787.0
-393.0	CARBONDALE	ANNA	BLACK SHALE	2.0	792.0
-395.0	CARBONDALE	HERRIN	COAL	5.0	794.0
-415.0	CARBONDALE	BRIAR HILL	SANDSTONE	22.0	814.0
-457.0	CARBONDALE		COAL	2.0	856.0
-479.0	CARBONDALE		LIMESTONE	2.0	878.0
-481.0	CARBONDALE	TURNER MINE	SHALE	2.0	880.0
-483.0	CARBONDALE	DYKERSBURG	SHALE	14.0	882.0
-497.0	CARBONDALE	SPRINGFIELD	COAL	7.0	896.0
-595.0	CARBONDALE	EXCELLO	SHALE	6.0	994.0
-607.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	1006.0
-616.0	CARBONDALE	SURVANT	COAL	2.0	1015.0
-676.0	CARBONDALE	MECCA QUARRY	SHALE	4.0	1075.0
-680.0	CARBONDALE	COLCHESTER	COAL	2.0	1079.0
-685.0	CARBONDALE	SEELYVILLE	SANDSTONE	56.0	1084.0
-757.0	CARBONDALE		COAL	6.0	1156.0
-787.0	TRADEWATER		SHALE	2.0	1186.0

MAPID: 18526305000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 2366' N, 2351' E, SW/c
 QUADRANGLE: BONE GAP LONGITUDE: -87.95961 GEOLOGIST: MORSE
 CONFIDENTIAL: N LATITUDE: 38.400516 DATE COLLECTED: 12 / 3 / 1977
 SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 3702.0 LOG TYPE: Electric Log
 SOURCE: PETROSEARCH ASSOC 1-P WELL TYPE: Coal Test
 COMMENT: HERRING, HENRY FARM

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
234.0	BOND	MT. CARMEL	SANDSTONE	24.0	166.0
84.0	BOND	CARTHAGE	LIMESTONE	6.0	316.0
-10.0	SHELBURN		BLACK SHALE	6.0	410.0
-60.0	SHELBURN		SANDSTONE	40.0	460.0
-110.0	SHELBURN		BLACK SHALE	5.0	510.0
-124.0	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	524.0
-352.0	SHELBURN	DANVILLE	COAL	3.0	752.0
-376.0	SHELBURN	BRERETON	LIMESTONE	4.0	776.0
-380.0	CARBONDALE	ANNA	BLACK SHALE	5.0	780.0
-385.0	CARBONDALE	HERRIN	COAL	3.0	785.0
-402.0	CARBONDALE		SANDSTONE	21.0	802.0
-450.0	CARBONDALE	BRIAR HILL	COAL	1.0	850.0
-454.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	854.0
-472.0	CARBONDALE	TURNER MINE	SHALE	4.0	872.0
-476.0	CARBONDALE	DYKERSBURG	SHALE	14.0	876.0
-490.0	CARBONDALE	SPRINGFIELD	COAL	6.0	890.0
-518.0	CARBONDALE		SANDSTONE	16.0	918.0
-584.0	CARBONDALE	EXCELLO	SHALE	9.0	984.0
-593.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	993.0
-602.0	CARBONDALE	SURVANT	COAL	1.0	1002.0
-659.0	CARBONDALE	MECCA QUARRY	SHALE	7.0	1059.0
-666.0	CARBONDALE	COLCHESTER	COAL	1.0	1066.0
-676.0	CARBONDALE		SANDSTONE	51.0	1076.0
-730.0	CARBONDALE	SEELYVILLE	COAL	5.0	1130.0
-752.0	TRADEWATER	CARRIER MILLS	SHALE	6.0	1152.0

MAPID: 18526546000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 1009' S, 1006' W, NE/c
 QUADRANGLE: BONE GAP LONGITUDE: -87.95253 GEOLOGIST: MORSE
 CONFIDENTIAL: N LATITUDE: 38.406027 DATE COLLECTED: 5 / 14 / 1980
 SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 3806.0 LOG TYPE: Electric Log
 SOURCE: VIKING OIL 1 WELL TYPE: Coal Test
 COMMENT: HIBBS-GARNER

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
82.0	BOND	CARTHAGE	LIMESTONE	5.0	320.0
-14.0	SHELBURN		BLACK SHALE	6.0	416.0
-78.0	SHELBURN		SANDSTONE	30.0	480.0
-108.0	SHELBURN		BLACK SHALE	2.0	510.0
-120.0	SHELBURN	WEST FRANKLIN	LIMESTONE	21.0	522.0
-348.0	SHELBURN	DANVILLE	COAL	4.0	750.0
-358.0	SHELBURN	BANKSTON FORK	LIMESTONE	5.0	760.0
-368.0	SHELBURN	BRERETON	LIMESTONE	6.0	770.0
-374.0	CARBONDALE	ANNA	BLACK SHALE	2.0	776.0
-376.0	CARBONDALE	HERRIN	COAL	4.0	778.0
-398.0	CARBONDALE		SANDSTONE	24.0	800.0
-437.0	CARBONDALE	BRIAR HILL	COAL	2.0	839.0
-452.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	854.0
-453.0	CARBONDALE	TURNER MINE	SHALE	5.0	855.0
-458.0	CARBONDALE	DYKERSBURG	SHALE	12.0	860.0
-470.0	CARBONDALE	SPRINGFIELD	COAL	4.0	872.0
-586.0	CARBONDALE	EXCELLO	SHALE	4.0	988.0
-598.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1000.0
-608.0	CARBONDALE	SURVANT	COAL	1.0	1010.0
-667.0	CARBONDALE	MECCA QUARRY	SHALE	3.0	1069.0
-670.0	CARBONDALE	COLCHESTER	COAL	-	1072.0
-688.0	CARBONDALE		SANDSTONE	53.0	1090.0
-747.0	CARBONDALE	SEELYVILLE	COAL	4.0	1149.0
-772.0	TRADEWATER	CARRIER MILLS	SHALE	2.0	1174.0

MAPID: 18527234000C **VERSION:** 1 **PROJECT:** CO2 SEQ
COUNTY: WABASH **TWP/RNG:** 1S 14W **SECTION:** 27 **QUARTERS/FOOTAGES:** 332' S, 1679' W, NE/c
QUADRANGLE: BONE GAP **LONGITUDE:** -87.954861 **GEOLOGIST:** MORSE
CONFIDENTIAL: N **LATITUDE:** 38.40789 **DATE COLLECTED:** 12 / 21 / 1983
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 3067.0 **LOG TYPE:** Electric Log
SOURCE: SMITH DRILLING 1 **WELL TYPE:** Coal Test
COMMENT: GRAY-ESTATE FARM

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
70.0	BOND	CARTHAGE	LIMESTONE	3.0	329.0
-21.0	SHELBURN		BLACK SHALE	3.0	420.0
-51.0	SHELBURN		SANDSTONE	68.0	450.0
-120.0	SHELBURN		BLACK SHALE	2.0	519.0
-131.0	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	530.0
-359.0	SHELBURN	DANVILLE	COAL	4.0	758.0
-381.0	SHELBURN	BRERETON	LIMESTONE	6.0	780.0
-387.0	CARBONDALE	ANNA	BLACK SHALE	2.0	786.0
-391.0	CARBONDALE	HERRIN	COAL	3.0	790.0
-403.0	CARBONDALE		SANDSTONE	33.0	802.0
-456.0	CARBONDALE	BRIAR HILL	COAL	1.0	855.0
-472.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	871.0
-474.0	CARBONDALE	TURNER MINE	SHALE	5.0	873.0
-479.0	CARBONDALE	DYKERSBURG	SHALE	11.0	878.0
-490.0	CARBONDALE	SPRINGFIELD	COAL	6.0	889.0
-598.0	CARBONDALE	EXCELLO	SHALE	4.0	997.0
-602.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1001.0
-611.0	CARBONDALE	SURVANT	COAL	2.0	1010.0
-670.0	CARBONDALE	MECCA QUARRY	SHALE	2.0	1069.0
-672.0	CARBONDALE	COLCHESTER	COAL	1.0	1071.0
-701.0	CARBONDALE		SANDSTONE	39.0	1100.0
-745.0	CARBONDALE	SEELYVILLE	COAL	6.0	1144.0
-769.0	TRADEWATER	CARRIER MILLS	SHALE	3.0	1168.0

MAPID: 18527346000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 1676' S, 2350' W, NE/c
QUADRANGLE: BONE GAP LONGITUDE: -87.95724 GEOLOGIST: MORSE
CONFIDENTIAL: N LATITUDE: 38.404201 DATE COLLECTED: 11 / 1 / 1984
SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 5075.0 LOG TYPE: Electric Log
SOURCE: HOCKING OIL 1 WELL TYPE: Coal Test
COMMENT: GARNER FARM

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
90.0	BOND	CARTHAGE	LIMESTONE	4.0	310.0
0.0	SHELBURN		BLACK SHALE	3.0	400.0
-40.0	SHELBURN		SANDSTONE	60.0	440.0
-100.0	SHELBURN	WEST FRANKLIN	BLACK SHALE	2.0	500.0
-110.0	SHELBURN		LIMESTONE	21.0	510.0
-337.0	SHELBURN		COAL	4.0	737.0
-350.0	SHELBURN	BANKSTON FORK	LIMESTONE	4.0	750.0
-359.0	SHELBURN	BRERETON	LIMESTONE	5.0	759.0
-364.0	CARBONDALE	ANNA	BLACK SHALE	3.0	764.0
-367.0	CARBONDALE	HERRIN	COAL	4.0	767.0
-385.0	CARBONDALE	BRIAR HILL	SANDSTONE	25.0	785.0
-428.0	CARBONDALE		COAL	2.0	828.0
-432.0	CARBONDALE		LIMESTONE	2.0	832.0
-447.0	CARBONDALE	TURNER MINE	SHALE	1.0	847.0
-448.0	CARBONDALE	DYKERSBURG	SHALE	10.0	848.0
-458.0	CARBONDALE	SPRINGFIELD	COAL	5.0	858.0
-580.0	CARBONDALE	EXCELLO	SHALE	5.0	980.0
-585.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	985.0
-596.0	CARBONDALE	SURVANT	COAL	3.0	996.0
-654.0	CARBONDALE	MECCA QUARRY	SHALE	3.0	1054.0
-657.0	CARBONDALE	COLCHESTER	COAL	1.0	1057.0
-667.0	CARBONDALE	SEELYVILLE	SANDSTONE	63.0	1067.0
-735.0	CARBONDALE		COAL	5.0	1135.0
-761.0	TRADEWATER		SHALE	2.0	1161.0

MAPID: 18528444000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 566' S, 2611' E, NW/c
QUADRANGLE: BONE GAP LONGITUDE: -87.95856 GEOLOGIST: MORSE
CONFIDENTIAL: N LATITUDE: 38.40725 DATE COLLECTED: 7 / 23 / 2007
SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 1210.0 LOG TYPE: Gamma Ray Density
SOURCE: GALLAGHER DRILLING M-1 WELL TYPE: Observation Well
COMMENT: CO2 SEQUESTRATION MONITORING WELL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
70.2	BOND	CARTHAGE	LIMESTONE	3.3	325.8
-22.5	SHELBURN		BLACK SHALE	2.3	418.5
-131.3	SHELBURN	WEST FRANKLIN	LIMESTONE	21.3	527.3
-363.0	SHELBURN	DANVILLE	COAL	3.7	759.0
-366.7	SHELBURN	BANKSTON FORK	LIMESTONE	2.3	762.7
-384.5	SHELBURN	BRERETON	LIMESTONE	5.5	780.5
-390.0	CARBONDALE	ANNA	BLACK SHALE	2.0	786.0
-392.0	CARBONDALE	HERRIN	COAL	4.3	788.0
-406.0	CARBONDALE		SANDSTONE	34.5	802.0
-457.3	CARBONDALE	BRIAR HILL	COAL	2.0	853.3
-477.8	CARBONDALE	ST. DAVID	LIMESTONE	1.8	873.8
-479.6	CARBONDALE	TURNER MINE	SHALE	3.8	875.6
-483.3	CARBONDALE	DYKERSBURG	SHALE	14.3	879.3
-497.6	CARBONDALE	SPRINGFIELD	COAL	6.1	893.6
-598.8	CARBONDALE	EXCELLO	SHALE	2.8	994.8
-603.0	CARBONDALE	HOUCHIN CREEK	COAL	2.3	999.0
-612.3	CARBONDALE	SURVANT	COAL	1.0	1008.3
-671.0	CARBONDALE	MECCA QUARRY	SHALE	2.5	1067.0
-673.5	CARBONDALE	COLCHESTER	COAL	0.8	1069.5
-681.0	CARBONDALE		SANDSTONE	53.4	1077.0
-746.8	CARBONDALE	SEELYVILLE	COAL	6.0	1142.8
-773.0	TRADEWATER	CARRIER MILLS	SHALE	1.5	1169.0

MAPID: 18528446000C VERSION: 1 PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 559' S, 2536' E, NW/c

QUADRANGLE: BONE GAP LONGITUDE: -87.95882 GEOLOGIST: MORSE

CONFIDENTIAL: N LATITUDE: 38.40727 DATE COLLECTED: 5 / 22 / 2008

SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 985.0 LOG TYPE: Gamma Ray Density

SOURCE: GALLAGHER DRILLING M-2B WELL TYPE: Observation Well

COMMENT: CO2 SEQUESTRATION MONITORING WELL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
69.0	BOND	CARTHAGE	LIMESTONE	2.4	326.0
-21.4	SHELBURN		BLACK SHALE	2.0	416.4
-131.0	SHELBURN	WEST FRANKLIN	LIMESTONE	22.0	526.0
-362.5	SHELBURN	DANVILLE	COAL	3.7	757.5
-366.0	SHELBURN	BANKSTON FORK	LIMESTONE	3.0	761.0
-384.8	SHELBURN	BRERETON	LIMESTONE	4.2	779.8
-389.0	CARBONDALE	ANNA	BLACK SHALE	2.3	784.0
-391.3	CARBONDALE	HERRIN	COAL	3.7	786.3
-404.6	CARBONDALE		SANDSTONE	33.5	799.6
-458.0	CARBONDALE	BRIAR HILL	COAL	2.0	853.0
-478.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	873.0
-479.3	CARBONDALE	TURNER MINE	SHALE	3.4	874.3
-482.7	CARBONDALE	DYKERSBURG	SHALE	11.6	877.7
-494.3	CARBONDALE	SPRINGFIELD	COAL	6.3	889.3

MAPID: 18528456000C VERSION: 1

PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 461' S, 2558' E, NW/c
QUADRANGLE: BONE GAP LONGITUDE: -87.95874 GEOLOGIST: MORSE
CONFIDENTIAL: N LATITUDE: 38.40754 DATE COLLECTED: 7 / 30 / 2007
SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 1215.0 LOG TYPE: Gamma Ray Density
SOURCE: GALLAGHER DRILLING I-1A WELL TYPE: CO2 Injection
COMMENT: CO2 SEQUESTRATION INJECTION WELL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
71.0	BOND	CARTHAGE	LIMESTONE	4.0	325.0
-22.0	SHELBURN		BLACK SHALE	3.0	418.0
-133.0	SHELBURN	WEST FRANKLIN	LIMESTONE	19.0	529.0
-363.0	SHELBURN	DANVILLE	COAL	3.6	759.0
-366.6	SHELBURN	BANKSTON FORK	LIMESTONE	2.2	762.6
-385.0	SHELBURN	BRERETON	LIMESTONE	4.5	781.0
-389.5	CARBONDALE	ANNA	BLACK SHALE	2.0	785.5
-391.5	CARBONDALE	HERRIN	COAL	4.5	787.5
-406.0	CARBONDALE		SANDSTONE	34.0	802.0
-460.5	CARBONDALE	BRIAR HILL	COAL	2.0	856.5
-481.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	877.0
-483.0	CARBONDALE	TURNER MINE	SHALE	3.5	879.0
-486.5	CARBONDALE	DYKERSBURG	SHALE	11.7	882.5
-498.2	CARBONDALE	SPRINGFIELD	COAL	6.8	894.2
-600.8	CARBONDALE	EXCELLO	SHALE	2.2	996.8
-603.0	CARBONDALE	HOUCHIN CREEK	COAL	2.8	999.0
-612.5	CARBONDALE	SURVANT	COAL	1.5	1008.5
-670.5	CARBONDALE	MECCA QUARRY	SHALE	2.5	1066.5
-673.0	CARBONDALE	COLCHESTER	COAL	1.0	1069.0
-679.0	CARBONDALE		SANDSTONE	55.0	1075.0
-746.5	CARBONDALE	SEELYVILLE	COAL	6.5	1142.5
-772.0	TRADEWATER	CARRIER MILLS	SHALE	1.5	1168.0

MAPID: 18528457000C VERSION: 1 PROJECT: CO2 SEQ

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 27 QUARTERS/FOOTAGES: 493' S, 2575' E, NW/c

QUADRANGLE: BONE GAP LONGITUDE: -87.95868 GEOLOGIST: MORSE

CONFIDENTIAL: N LATITUDE: 38.40745 DATE COLLECTED: 5 / 30 / 2008

SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 975.0 LOG TYPE: Gamma Ray Density

SOURCE: GALLAGHER DRILLING I-1B WELL TYPE: CO2 Injection

COMMENT: CO2 SEQUESTRATION INJECTION WELL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
68.3	BOND	CARTHAGE	LIMESTONE	3.5	326.7
-24.7	SHELBURN		BLACK SHALE	1.5	419.7
-133.8	SHELBURN	WEST FRANKLIN	LIMESTONE	21.6	528.8
-366.7	SHELBURN	DANVILLE	COAL	3.7	761.7
-370.4	SHELBURN	BANKSTON FORK	LIMESTONE	2.5	765.4
-388.0	SHELBURN	BRERETON	LIMESTONE	5.0	783.0
-393.0	CARBONDALE	ANNA	BLACK SHALE	2.3	788.0
-395.3	CARBONDALE	HERRIN	COAL	3.9	790.3
-410.0	CARBONDALE		SANDSTONE	33.3	805.0
-460.7	CARBONDALE	BRIAR HILL	COAL	2.3	855.7
-481.5	CARBONDALE	ST. DAVID	LIMESTONE	2.0	876.5
-483.5	CARBONDALE	TURNER MINE	SHALE	1.5	878.5
-485.0	CARBONDALE	DYKERSBURG	SHALE	15.5	880.0
-500.5	CARBONDALE	SPRINGFIELD	COAL	6.6	895.5

MAPID: 18525982000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 34 QUARTERS/FOOTAGES: 623' S line, 107' W line of SE

QUADRANGLE: BONE GAP LONGITUDE: -87.958084 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.380949 DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.2 LOGGED (FT.): 887.9 LOG TYPE: Survey Core Study

SOURCE: AMAX C.C. BB-7 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.2			NO RECORD	773.0	0.0	GEOPHYSICAL LOG AVAILABLE
-376.8			GRAY SHALE	0.9	773.0	
-377.7			GRAY SHALE	1.1	773.9	
-378.8			GRAY SHALE	1.6	775.0	
-380.4			CLAYSTONE	0.6	776.6	GRAY
-381.0			LIMESTONE	1.9	777.2	MED GRAY
-382.8			LIMESTONE	3.7	779.0	MED GRAY
-386.5			BLACK SHALE	2.3	782.7	GAP IN CORE
-476.8			SHALE	5.1	873.0	LT GRAY
-481.9			SHALE	0.2	878.1	DK GRAY
-482.1			SHALE	0.3	878.3	GAP IN CORE; MED GRAY
-488.8			SHALE	0.8	885.0	MED GRY
-489.6			SHALE	2.1	885.8	LT GRAY

MAPID: 18525984000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 35 QUARTERS/FOOTAGES: 60' N line, 65' E line

QUADRANGLE: BONE GAP LONGITUDE: -87.930629 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.393753 DATE COLLECTED:

SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 1149.0 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. BB-16 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
398.0			NO RECORD	795.0	0.0	
-397.0			LIMESTONE	2.0	795.0	BRN GRAY
-399.0			SHALE	1.7	797.0	GAP IN CORE; DK GRAY
-401.0	CARBONDALE	HERRIN	COAL	4.0	799.0	REMOVED
-405.0			CLAYSTONE	3.0	803.0	INTERVAL NOT CORED; LT GRAY
-496.0			SHALE	3.1	894.0	MED GRAY
-499.1			CLAYSTONE	2.9	897.1	
-502.0			SHALE	6.0	900.0	MED GRAY
-508.0			SHALE	6.0	906.0	MED GRAY
-514.0			SHALE	6.0	912.0	
-520.0			SHALE	0.5	918.0	
-520.5	CARBONDALE	SPRINGFIELD	COAL	2.5	918.5	REMOVED
-523.0			SHALE	3.0	921.0	MED GRAY
-526.0	CARBONDALE	SPRINGFIELD	COAL	4.0	924.0	REMOVED
-530.0			CLAYSTONE	0.5	928.0	MED GRAY
-530.5			SILTSTONE	0.1	928.5	LT GRAY
-530.6			SANDSTONE	0.3	928.6	LT GRAY
-530.9			SANDSTONE	0.6	928.9	GAP IN CORE; LT GRAY
-532.0			SANDSTONE	6.0	930.0	
-538.0			SANDSTONE	7.0	936.0	GAP IN CORE
-710.0			SANDSTONE	6.0	1108.0	GAP IN CORE
-722.0			SANDSTONE	8.0	1120.0	
-730.0			SANDSTONE	6.0	1128.0	
-736.0			SANDSTONE	6.0	1134.0	LT GRAY
-742.0			SANDSTONE	1.0	1140.0	
-743.0	SPOON	SEELYVILLE	COAL	6.0	1141.0	
-749.0			UNDERCLAY	2.0	1147.0	MED GRAY

MAPID: 18527888000C VERSION: 1

PROJECT: NCRDS99

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 35 QUARTERS/FOOTAGES: 75' S line, 200' W line of SW SE NW

QUADRANGLE: BONE GAP LONGITUDE: -87.943765

GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 38.386798

DATE COLLECTED: 10 / 5 / 1984

SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 1309.0

LOG TYPE: Multiple log types

SOURCE: EXXON EIBI-7

WELL TYPE: Coal Test

COMMENT: EXXON COAL QUALITY DATA-GEOPHYS LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
398.0			UNCLASSIFIED	332.0	0.0	
66.0			LIMESTONE	3.5	332.0	
62.5			UNCLASSIFIED	94.8	335.5	
-32.3			SHALE	2.5	430.3	CARBONACEOUS? DRILLERS LOG SAYS COAL
-34.8			UNCLASSIFIED	92.8	432.8	
-127.5	MODESTO	WEST FRANKLIN	LIMESTONE	1.0	525.5	CORRELATION ON DRILLER'S LOG
-128.5	MODESTO	WEST FRANKLIN	ROCK	2.5	526.5	
-131.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	529.0	
-137.5	MODESTO		ROCK	85.5	535.5	
-223.0	MODESTO		SANDSTONE	36.5	621.0	
-259.5	MODESTO		ROCK	92.5	657.5	
-352.0	CARBONDALE	DANVILLE	COAL	3.8	750.0	
-355.8	CARBONDALE		ROCK	4.3	753.8	
-360.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	758.0	
-362.5	CARBONDALE		ROCK	8.3	760.5	
-370.8	CARBONDALE	JAMESTOWN	SHALE	1.3	768.8	LOG TRACE SUGGESTS CARBONACEOUS
-372.0	CARBONDALE	BRERETON	LIMESTONE	6.8	770.0	
-378.8	CARBONDALE	ANNA	SHALE	2.3	776.8	LOG TRACE SUGGESTS CARBONACEOUS
-381.0	CARBONDALE	HERRIN	COAL	3.8	779.0	
-384.8	CARBONDALE		ROCK	54.3	782.8	
-439.0	CARBONDALE	BRIAR HILL	COAL	2.0	837.0	
-441.0	CARBONDALE		ROCK	15.0	839.0	
-456.0	CARBONDALE		SHALE	1.0	854.0	LOG TRACE SUGGEST CARBONACEOUS
-457.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	855.0	
-459.0	CARBONDALE	TURNER MINE	SHALE	1.5	857.0	LOG TRACE SUGGEST CARBONACEOUS
-460.5	CARBONDALE		ROCK	25.5	858.5	
-486.0	CARBONDALE	SPRINGFIELD	COAL	6.0	884.0	
-492.0	CARBONDALE		ROCK	19.0	890.0	
-511.0	CARBONDALE		SANDSTONE	35.3	909.0	
-546.3	CARBONDALE		ROCK	34.8	944.3	
-581.0	CARBONDALE	EXCELLO	SHALE	2.5	979.0	LOG TRACE SUGGEST CARBONACEOUS
-583.5	CARBONDALE	HOUCHIN CREEK	COAL	2.0	981.5	
-585.5	CARBONDALE		ROCK	81.0	983.5	
-666.5	CARBONDALE		SHALE	2.5	1064.5	LOG TRACE SUGGEST CARBONACEOUS
-669.0	CARBONDALE	COLCHESTER	COAL	1.3	1067.0	
-670.3	CARBONDALE		ROCK	7.3	1068.3	
-677.5	CARBONDALE		SANDSTONE	54.5	1075.5	
-732.0	CARBONDALE		ROCK	4.5	1130.0	

-736.5	CARBONDALE	SEELYVILLE	COAL	4.0	1134.5	
-740.5	CARBONDALE		ROCK	7.8	1138.5	
-748.3	CARBONDALE		SHALE	0.8	1146.3	LOG TRACE SUGGEST CARBONACEOUS
-749.0	CARBONDALE		ROCK	17.5	1147.0	
-766.5	CARBONDALE		SHALE	1.0	1164.5	LOG TRACE SUGGEST CARBONACEOUS
-767.5	CARBONDALE		ROCK	14.0	1165.5	
-781.5	CARBONDALE		SHALE	2.5	1179.5	LOG TRACE SUGGEST CARBONACEOUS
-784.0	CARBONDALE		ROCK	1.0	1182.0	THIN COAL?
-785.0	CARBONDALE		ROCK	15.0	1183.0	
-800.0	CARBONDALE		ROCK	1.0	1198.0	THIN COAL?
-801.0	CARBONDALE		ROCK	83.0	1199.0	
-884.0	TRADEWATER	SEAHORNE LS	LIMESTONE	5.0	1282.0	
-889.0	TRADEWATER		ROCK	3.0	1287.0	
-892.0	TRADEWATER		COAL	1.5	1290.0	
-893.5	TRADEWATER		ROCK	17.5	1291.5	

MAPID: 18527888000C VERSION: 2

PROJECT: NCRDS94

COUNTY: WABASH TWP/RNG: 1S 14W SECTION: 35 QUARTERS/FOOTAGES: 75' S line, 200' W line of SW SE NW

QUADRANGLE: BONE GAP LONGITUDE: -87.943765

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.386798

DATE COLLECTED: 10 / 5 / 1984

SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 1320.0

LOG TYPE: Drillers Log

SOURCE: EXXON EIBI-7

WELL TYPE: Coal Test

COMMENT: GAMMA; DENSITY; RESIST LOGS AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
398.0			CLAY	20.0	0.0
378.0			CLAY	10.0	20.0
368.0			CLAY	5.0	30.0
363.0			CLAY	15.0	35.0
348.0			SANDSTONE	79.0	50.0
269.0			SANDSTONE	20.0	129.0
249.0			SANDSTONE	36.0	149.0
213.0			SILTY SHALE	15.0	185.0
198.0			GRAY SHALE	25.0	200.0
173.0			DARK GRAY SHALE	20.0	225.0
153.0			GRAY SHALE	15.0	245.0
138.0			SANDY SHALE	15.0	260.0
123.0			DARK GRAY SHALE	10.0	275.0
113.0			GRAY SHALE	5.0	285.0
108.0			GRAY SHALE	15.0	290.0
93.0			GRAY SHALE	15.0	305.0
78.0			GRAY SHALE	13.0	320.0
65.0			LIMESTONE	5.0	333.0
60.0			SANDY SHALE	37.0	338.0
23.0			SILTY SHALE	15.0	375.0
8.0			CALCAREOUS SHALE	10.0	390.0
-2.0			SILTY SHALE	35.0	400.0
-37.0			COAL	2.0	435.0
-39.0			GRAY SHALE	23.0	437.0
-62.0			SANDY SHALE	10.0	460.0
-72.0			SILTY SHALE	15.0	470.0
-87.0			GRAY SHALE	25.0	485.0
-112.0			DARK GRAY SHALE	16.0	510.0
-128.0			LIMESTONE	12.0	526.0
-140.0			CLAYSTONE & SILTSTONE	12.0	538.0
-152.0			GRAY SHALE	30.0	550.0
-182.0			GRAY SHALE	10.0	580.0
-192.0			SILTY SHALE	20.0	590.0
-212.0			SANDSTONE	20.0	610.0
-232.0			SANDSTONE	35.0	630.0
-267.0			GRAY SHALE	20.0	665.0
-287.0			SILTY SHALE	15.0	685.0
-302.0			GRAY SHALE	35.0	700.0
-337.0			GRAY SHALE	9.2	735.0

-346.2			GRAY SHALE	6.9	744.2	
-353.1	CARBONDALE	DANVILLE	COAL	3.1	751.1	
-356.2	CARBONDALE	DANVILLE	UNCLASSIFIED	0.3	754.2	CORE LOSS
-356.5	CARBONDALE	DANVILLE	COAL	0.5	754.5	
-356.9	CARBONDALE		UNDERCLAY	1.1	754.9	
-358.0	CARBONDALE		UNDERCLAY	2.2	756.0	
-360.2	CARBONDALE		UNDERCLAY	0.3	758.2	
-360.5	CARBONDALE		UNDERCLAY	1.3	758.5	
-361.8	CARBONDALE	BANKSTON FORK	LIMESTONE	2.3	759.8	
-364.0	CARBONDALE		UNDERCLAY	0.7	762.0	
-364.7	CARBONDALE	ANVIL ROCK	SANDSTONE	5.5	762.7	
-370.1	CARBONDALE		GRAY SHALE	2.2	768.1	
-372.3	CARBONDALE		BLACK SHALE	0.6	770.3	
-372.9	CARBONDALE		SHALE	1.2	770.9	
-374.1	CARBONDALE	BRERETON	LIMESTONE	5.7	772.1	
-379.8	CARBONDALE		UNDERCLAY	0.4	777.8	
-380.2	CARBONDALE	ANNA	BLACK SHALE	1.5	778.2	
-381.7	CARBONDALE	HERRIN	COAL	4.6	779.7	
-386.3	CARBONDALE		UNDERCLAY	0.4	784.3	
-386.7	CARBONDALE		UNDERCLAY	3.0	784.7	
-389.7	CARBONDALE		SANDSTONE	5.4	787.7	
-395.0	CARBONDALE		CLAYSTONE & SILTSTONE	7.0	793.0	
-402.0	CARBONDALE		SILTY SHALE	20.0	800.0	
-422.0	CARBONDALE		DARK GRAY SHALE	10.0	820.0	
-432.0	CARBONDALE		SILTSTONE	7.1	830.0	LGY ST; LT GY
-439.1	CARBONDALE	BRIAR HILL	COAL	2.1	837.1	
-441.1	CARBONDALE		UNDERCLAY	0.3	839.1	
-441.5	CARBONDALE		GRAY SILTSTONE	0.7	839.5	
-442.1	CARBONDALE		SANDSTONE	2.3	840.1	
-444.4	CARBONDALE		SANDSTONE	0.6	842.4	
-445.0	CARBONDALE		SANDSTONE	4.7	843.0	
-449.7	CARBONDALE		UNCLASSIFIED	1.3	847.7	CORE LOSS
-451.0	CARBONDALE		UNCLASSIFIED	1.0	849.0	CORE LOSS
-452.0	CARBONDALE		UNDERCLAY	0.3	850.0	
-452.3	CARBONDALE		SANDY SHALE	5.1	850.3	
-457.4	CARBONDALE		LIMESTONE	1.3	855.4	
-458.7	CARBONDALE		BLACK SHALE	1.4	856.7	
-460.1	CARBONDALE		SANDSTONE	0.5	858.1	
-460.6	CARBONDALE		DARK GRAY SHALE	2.4	858.6	
-463.0	CARBONDALE		GRAY SHALE	9.0	861.0	
-472.0	CARBONDALE		GRAY SHALE	6.0	870.0	
-478.0	CARBONDALE		GRAY SHALE	10.6	876.0	
-488.6	CARBONDALE		DARK GRAY SHALE	0.4	886.6	
-489.0	CARBONDALE	SPRINGFIELD	COAL	6.0	887.0	
-495.0			UNDERCLAY	2.5	893.0	
-497.5			UNDERCLAY	4.5	895.5	
-502.0			UNCLASSIFIED	2.0	900.0	CORE LOSS
-504.0			SILTY SHALE	8.0	902.0	

-512.0	SANDSTONE	55.0	910.0
-567.0	DARK GRAY SHALE	35.0	965.0
-602.0	SANDY SHALE	30.0	1000.0
-632.0	DARK GRAY SHALE	60.0	1030.0
-692.0	SANDSTONE	55.0	1090.0
-747.0	SILTY SHALE	105.0	1145.0
-852.0	GRAY SHALE	70.0	1250.0

MAPID: 18526040000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 1S 14W **SECTION:** 36 **QUARTERS/FOOTAGES:** 264' S line, 206' W line of SW SE NW
QUADRANGLE: BONE GAP **LONGITUDE:** -87.925039 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.387268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 432.3 **LOGGED (FT.):** 963.0 **LOG TYPE:** Survey Core Study
SOURCE: AMAX C. C. B-69 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
432.3			NO RECORD	812.0 0.0	
-379.7	CARBONDALE	BRERETON	LIMESTONE	6.0 812.0	GAP IN CORE; LT GRAY
-493.7	CARBONDALE	DYKERSBURG	SHALE	6.0 926.0	MED GRAY
-499.7			SHALE	6.0 932.0	
-505.7			SHALE	6.0 938.0	
-511.7			SHALE	4.0 944.0	GAP IN CORE
-526.7			SHALE	4.0 959.0	MED GRAY

MAPID: 18502818000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 2N 11W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' N line, 330' W line of SE
QUADRANGLE: ST. FRANCISVILLE **LONGITUDE:** -87.676472 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.5563 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 398.0 **LOGGED (FT.):** 2119.0 **LOG TYPE:** Electric Log
SOURCE: MORRIS E H **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-51.0	CARBONDALE	HERRIN	COAL	2.0 449.0	
-116.0	CARBONDALE	BRIAR HILL	COAL	- 514.0	
-139.0	CARBONDALE	SPRINGFIELD	COAL	3.0 537.0	
-216.0	CARBONDALE	HOUCHIN CREEK	COAL	- 614.0	

MAPID: 18502821000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 11W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.657835 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.561713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2575.0 LOG TYPE: Electric Log

SOURCE: CONTINENTAL DRLG COR WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	CARBONDALE	HERRIN	COAL	2.0	406.0
-60.0	CARBONDALE	BRIAR HILL	COAL	-	466.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	3.0	487.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0

MAPID: 18500269000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 31 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.784962 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.564457 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 2445.0 LOG TYPE: Electric Log

SOURCE: WABASH OIL & GAS AS WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-255.0	CARBONDALE	HERRIN	COAL	3.0	710.0
-322.0	CARBONDALE	BRIAR HILL	COAL	-	777.0
-353.0	CARBONDALE	SPRINGFIELD	COAL	4.0	808.0
-437.0	CARBONDALE	HOUCHIN CREEK	COAL	-	892.0

MAPID: 18505342000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2N 12W

SECTION: 31

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.790324

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.560869

DATE COLLECTED: 8 / 1 / 1957

SURFACE ELEVATION (FT.): 448.0

LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

53 FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.0			UNCONSOLIDATED	26.0	0.0	
422.0			FOSSILIFEROUS LIMESTONE	0.1	26.0	GRAY
421.9			BLACK SHALE	0.9	26.1	WITH LIMESTONE STREAKS
421.0			CLAYSTONE	1.3	27.0	GRAY
419.7			LIMESTONE	2.3	28.3	GRAY
417.4			CLAYSTONE	3.8	30.6	GRAY
413.7			ARGILACEOUS SHALE	17.2	34.3	
396.5			COAL	0.5	51.5	
396.0			CLAYSTONE	8.2	52.0	GRAY
387.8			GRAY SHALE	18.3	60.2	
369.5			SANDSTONE	21.5	78.5	GRAY

MAPID: 18526153000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 31 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.780077 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.557163 DATE COLLECTED: 4 / 7 / 1976

SURFACE ELEVATION (FT.): LOGGED (FT.): 295.0 LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 45221 WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	17.0	0.0	
-			SANDSTONE	4.0	17.0	
-			GRAY SHALE	3.0	21.0	
-			COAL	1.0	24.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	7.0	25.0	
-			GRAY SHALE	8.0	32.0	
-			DARK SHALE	15.0	40.0	
-			COAL	2.0	55.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	30.0	57.0	
-			SANDSTONE	4.0	87.0	
-			GRAY SHALE	9.0	91.0	
-			DARK SHALE	17.0	100.0	
-			COAL	3.0	117.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	4.0	120.0	
-			DARK SHALE	3.0	124.0	
-			SANDY SHALE	12.0	127.0	
-			DARK SHALE	3.0	139.0	
-			SANDSTONE	33.0	142.0	
-			SHALE	2.0	175.0	
-			LIMESTONE	1.0	177.0	
-			SHALE	2.0	178.0	
-			GRAY SHALE	7.0	180.0	
-			LIMESTONE	3.0	187.0	
-			SANDSTONE	20.0	190.0	
-			SHALE	10.0	210.0	
-			COAL	2.0	220.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	14.0	222.0	
-			SANDY SHALE	4.0	236.0	
-			SANDSTONE	37.0	240.0	
-			SANDSTONE	18.0	277.0	

MAPID: 18526247000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 2N 12W

SECTION: 31

QUARTERS/FOOTAGES: 470' S line, 120' E line of SE

QUADRANGLE: LANCASTER

LONGITUDE: -87.779236

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.555737

DATE COLLECTED: 10 / 4 / 1976

SURFACE ELEVATION (FT.): 482.0

LOGGED (FT.): 285.0

LOG TYPE: Drillers Log

SOURCE: DAIVD A. SPETH

1

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.0			UNCONSOLIDATED	13.0	0.0	SOIL AND CLAY
469.0			SANDSTONE	7.0	13.0	
462.0			LIMESTONE	3.0	20.0	
459.0			GRAY SHALE	16.0	23.0	
443.0			COAL	2.0	39.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
441.0			LIMESTONE	2.0	41.0	
439.0			LIMESTONE	4.0	43.0	
435.0			GRAY SHALE	46.0	47.0	
389.0			COAL	4.0	93.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
385.0			DARK SHALE	27.0	97.0	
358.0			COAL	3.0	124.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
355.0			SANDSTONE	10.0	127.0	
345.0			DARK SHALE	3.0	137.0	
342.0			LIGHT SHALE	20.0	140.0	
322.0			SANDY SHALE	10.0	160.0	
312.0			DARK SHALE	35.0	170.0	
277.0			LIMESTONE	2.0	205.0	
275.0			GRAY SHALE	30.0	207.0	
245.0			SANDY SHALE	18.0	237.0	
227.0			SANDSTONE	30.0	255.0	

MAPID: 18526412000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 2N 12W

SECTION: 31

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.798139

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.557276

DATE COLLECTED: 2 / 28 / 1977

SURFACE ELEVATION (FT.):

LOGGED (FT.): 330.0

LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH 57162

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	25.0	0.0	SOIL AND CLAY
-			GRAY SHALE	40.0	25.0	
-			COAL	3.0	65.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	5.0	68.0	
-			SANDY SHALE	27.0	73.0	
-			COAL	3.0	100.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	103.0	
-			GRAY SHALE	30.0	105.0	
-			SANDSTONE	10.0	135.0	SS W/ LIME
-			SANDSTONE	20.0	145.0	
-			DARK SHALE	5.0	165.0	
-			COAL	2.0	170.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	3.0	172.0	
-			DARK SHALE	20.0	175.0	
-			GRAY SHALE	5.0	195.0	
-			SANDSTONE	28.0	200.0	
-			LIMESTONE	10.0	228.0	
-			COAL	4.0	238.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	10.0	242.0	
-			LIMESTONE	8.0	252.0	
-			SANDSTONE	14.0	260.0	SS AND LIME
-			DARK SHALE	26.0	274.0	
-			COAL	10.0	300.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	20.0	310.0	

MAPID: 18526624000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 31 QUARTERS/FOOTAGES: NE NW SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.785166 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.560828 DATE COLLECTED: 3 / 19 / 1980
 SURFACE ELEVATION (FT.): LOGGED (FT.): 315.0 LOG TYPE: Drillers Log
 SOURCE: DAIVD A. SPETH 93069 WELL TYPE: Oil and Gas Test
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	21.0	0.0	SOIL AND CLAY
-			COAL	4.0	21.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			DARK SHALE	1.0	25.0	
-			LIMESTONE	3.0	26.0	
-			DARK SHALE	9.0	29.0	
-			LIMESTONE	4.0	38.0	
-			GRAY SHALE	8.0	42.0	
-			COAL	3.0	50.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	47.0	53.0	
-			SANDY SHALE	20.0	100.0	
-			DARK SHALE	5.0	120.0	
-			CALCAREOUS SHALE	20.0	125.0	
-			GRAY SHALE	18.0	145.0	
-			SANDSTONE	20.0	163.0	
-			SANDSTONE	17.0	183.0	
-			SANDY SHALE	10.0	200.0	
-			DARK SHALE	45.0	210.0	
-			SANDSTONE	60.0	255.0	

MAPID: 18502631000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.77058 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.562486 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 2193.0 LOG TYPE: Electric Log
 SOURCE: IL OIL CO. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-164.0	CARBONDALE	HERRIN	COAL	2.0	625.0	
-229.0	CARBONDALE	BRIAR HILL	COAL	-	690.0	
-252.0	CARBONDALE	SPRINGFIELD	COAL	3.0	713.0	
-339.0	CARBONDALE	HOUCHIN CREEK	COAL	-	800.0	

MAPID: 18505624000C

VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH

TWP/RNG: 2N 12W

SECTION: 32

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.761199

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.56776

DATE COLLECTED: 7 / 11 / 1967

SURFACE ELEVATION (FT.):

LOGGED (FT.): 242.0

LOG TYPE: Drillers Log

SOURCE: DAVID A. SPETH54539

WELL TYPE: Oil and Gas Test

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	10.0	0.0	
-			SANDSTONE	15.0	10.0	
-			GRAY SHALE	7.0	25.0	
-			COAL	1.0	32.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	33.0	
-			DARK SHALE	10.0	35.0	
-			SANDY SHALE	8.0	45.0	
-			DARK SHALE	10.0	53.0	
-			SANDY SHALE	10.0	63.0	
-			DARK SHALE	14.0	73.0	
-			COAL	3.0	87.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	5.0	90.0	
-			SANDY SHALE	5.0	95.0	
-			GRAY SHALE	10.0	100.0	
-			DARK SHALE	30.0	110.0	
-			COAL	2.0	140.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			SANDY SHALE	29.0	142.0	
-			SANDSTONE	71.0	171.0	

MAPID: 18526047000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 32 QUARTERS/FOOTAGES: SW NW SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.777594 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.558951 DATE COLLECTED: 4 / 4 / 1974
 SURFACE ELEVATION (FT.): LOGGED (FT.): 315.0 LOG TYPE: Drillers Log
 SOURCE: DAVID A. SPETH 28682 WELL TYPE: Oil and Gas Test
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	15.0	0.0	
-			SANDSTONE	5.0	15.0	
-			DARK SHALE	23.0	20.0	
-			GRAY SHALE	32.0	43.0	
-			DARK SHALE	21.0	75.0	
-			COAL	1.0	96.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	1.0	97.0	
-			SANDSTONE	72.0	98.0	
-			COAL	2.0	170.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	13.0	172.0	
-			SANDY SHALE	20.0	185.0	
-			DARK SHALE	55.0	205.0	
-			SANDSTONE	55.0	260.0	

MAPID: 18527428000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 32 QUARTERS/FOOTAGES: SW SW SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.777664 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.55533 DATE COLLECTED: 7 / 28 / 1983
 SURFACE ELEVATION (FT.): LOGGED (FT.): 270.0 LOG TYPE: Drillers Log
 SOURCE: JAMES A. SPETH 108436 WELL TYPE: Oil and Gas Test
 COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	26.0	0.0	
-			SANDSTONE	9.0	26.0	
-			SANDY SHALE	5.0	35.0	
-			DARK SHALE	16.0	40.0	
-			COAL	4.0	56.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	3.0	60.0	
-			SANDY SHALE	17.0	63.0	
-			COAL	2.0	80.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	24.0	82.0	
-			SANDSTONE	46.0	106.0	
-			DARK SHALE	88.0	152.0	
-			SANDSTONE	30.0	240.0	

MAPID: 18502412000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 33 QUARTERS/FOOTAGES: 330' S line, 370' W line of SE SW
QUADRANGLE: LANCASTER LONGITUDE: -87.75433 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.554991 DATE COLLECTED:
SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 2375.0 LOG TYPE: Electric Log
SOURCE: BAILOR, W. E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-113.0	CARBONDALE	HERRIN	COAL	2.0	590.0	
-188.0	CARBONDALE	SPRINGFIELD	COAL	3.0	665.0	
-279.0	CARBONDALE	HOUCHIN CREEK	COAL	-	756.0	

MAPID: 18526266000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 33 QUARTERS/FOOTAGES: 1050' S line, 130' W line of SW
QUADRANGLE: LANCASTER LONGITUDE: -87.759813 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.557117 DATE COLLECTED: 2 / 22 / 1977
SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 240.0 LOG TYPE: Drillers Log
SOURCE: DAVID A. SPETH 1 WELL TYPE: Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			UNCONSOLIDATED	1.5	0.0	SOIL AND CLAY
483.5			SANDSTONE	13.5	1.5	
470.0			COAL	3.0	15.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
467.0			LIMESTONE	9.0	18.0	
458.0			DARK SHALE	13.0	27.0	
445.0			GRAY SHALE	8.0	40.0	
437.0			SANDSTONE	37.0	48.0	
400.0			COAL	3.0	85.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
397.0			LIMESTONE	5.0	88.0	
392.0			GRAY SHALE	12.0	93.0	
380.0			DARK SHALE	65.0	105.0	
315.0			SANDY SHALE	41.0	170.0	
274.0			SANDSTONE	29.0	211.0	

MAPID: 18502824000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 34 QUARTERS/FOOTAGES: 10' N line, 650' W line of SE SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.734589 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.557364 DATE COLLECTED:

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 1514.0 LOG TYPE: Electric Log

SOURCE: HORAN STEPHEN WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-103.0	CARBONDALE	HERRIN	COAL	3.0	548.0
-165.0	CARBONDALE	BRIAR HILL	COAL	-	610.0
-183.0	CARBONDALE	SPRINGFIELD	COAL	4.0	628.0
-259.0	CARBONDALE	HOUCHIN CREEK	COAL	-	704.0

MAPID: 18502219000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 639' E line of SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.715809 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.554467 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 2204.0 LOG TYPE: Electric Log

SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-70.0	CARBONDALE	HERRIN	COAL	2.0	497.0
-137.0	CARBONDALE	BRIAR HILL	COAL	-	564.0
-166.0	CARBONDALE	SPRINGFIELD	COAL	3.0	593.0
-233.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0

MAPID: 18525961000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 35 QUARTERS/FOOTAGES: 1851' S line, 1643' E line of SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.70986 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.558625 DATE COLLECTED: 11 / 1 / 1974
 SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2016.0 LOG TYPE: Drillers Log
 SOURCE: WAYNE SMITH, OPERATOR INC. 1 WELL TYPE: Oil and Gas Test
 COMMENT: COAL ONLY TO 678'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0			UNCONSOLIDATED	42.0	0.0	SOIL, CLAY, AND SAND
396.0			SANDY SHALE	58.0	42.0	
338.0			SANDSTONE	67.0	100.0	
271.0			SANDSTONE	23.0	167.0	SS W/ SOME SH
248.0			SHALE	91.0	190.0	LOG SAYS SH, ST, SS, CALC SH
157.0			SANDSTONE	21.0	281.0	
136.0			CALCAREOUS SHALE	15.0	302.0	
121.0			SHALE	23.0	317.0	
98.0			SHALE	120.0	340.0	
-22.0			COAL	2.0	460.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-24.0			CALCAREOUS SHALE	30.0	462.0	
-54.0			COAL	3.0	492.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-57.0			SANDY SHALE	15.0	495.0	
-72.0			SANDSTONE	41.0	510.0	
-113.0			SHALE	17.0	551.0	
-130.0			CALCAREOUS SHALE	22.0	568.0	
-152.0			SILTY SHALE	85.0	590.0	
-237.0			COAL	3.0	675.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-240.0			SANDY SHALE	32.0	678.0	
-272.0			SHALE	38.0	710.0	
-310.0			SANDSTONE	53.0	748.0	

MAPID: 18502619000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 12W SECTION: 36 QUARTERS/FOOTAGES: 450' S line, 100' W line of SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.694509 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.554774 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 1392.0 LOG TYPE:
 SOURCE: GEORGE, T. W. OIL WELL TYPE: Water Injection
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-24.0	CARBONDALE	HERRIN	COAL	-	450.0	CHENOWETH SAYS #6@ 486
-128.0	CARBONDALE	BRIAR HILL	COAL	-	554.0	
-156.0	CARBONDALE	SPRINGFIELD	COAL	4.0	582.0	
-214.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0	

MAPID: 18501336000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2N 13W

SECTION: 31

QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: BERRYVILLE

LONGITUDE: -87.903725

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.561854

DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.0

LOGGED (FT.): 2901.0

LOG TYPE: Electric Log

SOURCE: BEARD, FRANCIS L.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-383.0	CARBONDALE	BRIAR HILL	COAL	-	824.0	
-423.0	CARBONDALE	SPRINGFIELD	COAL	3.0	864.0	
-517.0	CARBONDALE	HOUCHIN CREEK	COAL	-	958.0	

MAPID: 18502618000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2N 13W

SECTION: 32

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

QUADRANGLE: BERRYVILLE

LONGITUDE: -87.891659

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.563579

DATE COLLECTED:

SURFACE ELEVATION (FT.): 423.0

LOGGED (FT.): 2851.0

LOG TYPE: Electric Log

SOURCE: SHURE OIL CORP.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-404.0	CARBONDALE	SPRINGFIELD	COAL	3.0	827.0	
-495.0	CARBONDALE	HOUCHIN CREEK	COAL	-	918.0	

MAPID: 18527432000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 32 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.884428 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.569061 DATE COLLECTED: 3 / 9 / 1984
SURFACE ELEVATION (FT.): LOGGED (FT.): 300.0 LOG TYPE: Drillers Log
SOURCE: JAMES A. SPETH 111508 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	25.0	0.0	
-			GRAY SHALE	21.0	25.0	
-			COAL	3.0	46.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	6.0	49.0	
-			COAL	1.0	55.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	56.0	
-			GRAY SHALE	7.0	58.0	
-			SANDY SHALE	5.0	65.0	
-			SANDSTONE	10.0	70.0	
-			LIMESTONE	2.0	80.0	
-			SANDSTONE	38.0	82.0	
-			SANDSTONE	28.0	120.0	
-			COAL	3.0	148.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	14.0	151.0	
-			DARK SHALE	115.0	165.0	
-			SANDY SHALE	20.0	280.0	

MAPID: 18500410000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 33 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW
QUADRANGLE: LANCASTER LONGITUDE: -87.865883 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.55611 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2574.0 LOG TYPE: Electric Log
SOURCE: HAYES&WOLF BROTHERS OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	3.0	763.0	
-	CARBONDALE	BRIAR HILL	COAL	-	808.0	
-	CARBONDALE	SPRINGFIELD	COAL	3.0	844.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	938.0	

MAPID: 18505320000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 33 QUARTERS/FOOTAGES: E2 SW

QUADRANGLE: LANCASTER LONGITUDE: -87.866984 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.558879 DATE COLLECTED: 6 / 14 / 1957

SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 150.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 11 FR WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE SE CORNER NW

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.0			UNCONSOLIDATED	25.0	0.0	
472.0			ARGILLACEOUS SHALE	14.3	25.0	
457.7			LIMESTONE	0.7	39.3	GRAY
457.0			BLACK SHALE	1.9	40.0	
455.1			LIMESTONE	0.4	41.9	GRAY
454.7			BLACK SHALE	1.8	42.3	
452.9			GRAY SHALE	6.8	44.1	
446.2			GRAY SHALE	6.0	50.8	WITH SANDY STREAKS
440.2			SHALEY CLAYSTONE	2.6	56.8	DK GRAY
437.6			LIMESTONE	0.5	59.4	GRAY
437.1			GRAY SHALE	0.3	59.9	
436.7			LIMESTONE	4.8	60.3	GRAY
432.0			GRAY SHALE	0.8	65.0	
431.2			SHALY SANDSTONE	5.8	65.8	GRAY
425.4			SANDY SHALE	4.3	71.6	
421.2			SHALEY CLAYSTONE	5.8	75.8	GRAY
415.3			SANDY SHALE	6.8	81.7	
408.6			BLACK SHALE	0.3	88.4	
408.2			COAL	0.3	88.8	
407.9			GRAY SHALE	8.0	89.1	
399.9			SHALEY CLAYSTONE	8.6	97.1	GRAY
391.3			COAL	0.3	105.7	
391.1			SHALEY CLAYSTONE	2.4	105.9	DK GRAY
388.7			SHALEY CLAYSTONE	2.3	108.3	DK GRAY
386.4			CLAYSTONE	4.3	110.6	WITH LIMESTONE NODULES; GRAY
382.1			GRAY SHALE	3.3	114.9	
378.7			SANDSTONE	21.5	118.3	GRAY
357.2			GRAY SHALE	10.3	139.8	WITH SANDY STREAKS

MAPID: 18502617000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW
QUADRANGLE: LANCASTER LONGITUDE: -87.85173 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.568898 DATE COLLECTED:
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 2740.0 LOG TYPE: Electric Log
SOURCE: SHURE OIL CORP. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-248.0	CARBONDALE	HERRIN	COAL	2.0	728.0	
-282.0	CARBONDALE	BRIAR HILL	COAL	-	762.0	
-337.0	CARBONDALE	SPRINGFIELD	COAL	3.0	817.0	
-425.0	CARBONDALE	HOUCHIN CREEK	COAL	-	905.0	

MAPID: 18501148000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NE
QUADRANGLE: LANCASTER LONGITUDE: -87.82137 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.56665 DATE COLLECTED:
SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 2706.0 LOG TYPE: Electric Log
SOURCE: IL MID CONTINENT CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-254.0	CARBONDALE	HERRIN	COAL	2.0	764.0	
-370.0	CARBONDALE	SPRINGFIELD	COAL	3.0	880.0	
-464.0	CARBONDALE	HOUCHIN CREEK	COAL	-	974.0	

MAPID: 18501892000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 36 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: LANCASTER LONGITUDE: -87.809733 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.564708 DATE COLLECTED:
SURFACE ELEVATION (FT.): 494.0 LOGGED (FT.): 1767.0 LOG TYPE: Electric Log
SOURCE: GOPHER DRILLING CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-265.0	CARBONDALE	HERRIN	COAL	2.0	759.0	
-303.0	CARBONDALE	BRIAR HILL	COAL	-	797.0	
-367.0	CARBONDALE	SPRINGFIELD	COAL	5.0	861.0	
-455.0	CARBONDALE	HOUCHIN CREEK	COAL	-	949.0	

MAPID: 18527434000C VERSION: 1

PROJECT: NCRDS93

COUNTY: WABASH TWP/RNG: 2N 13W SECTION: 36 QUARTERS/FOOTAGES: NW SW NW
QUADRANGLE: LANCASTER LONGITUDE: -87.816712 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.564777 DATE COLLECTED: 8 / 14 / 1981
SURFACE ELEVATION (FT.): LOGGED (FT.): 250.0 LOG TYPE: Drillers Log
SOURCE: DAVID SPETH 100926 WELL TYPE: Oil and Gas Test
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	25.0	0.0	
-			SANDSTONE	2.0	25.0	
-			GRAY SHALE	36.0	27.0	
-			COAL	2.0	63.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	6.0	65.0	
-			GRAY SHALE	15.0	71.0	
-			LIMESTONE	3.0	86.0	
-			GRAY SHALE	21.0	89.0	
-			COAL	2.0	110.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	2.0	112.0	
-			GRAY SHALE	21.0	114.0	
-			DARK SHALE	34.0	135.0	
-			COAL	2.0	169.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			LIMESTONE	3.0	171.0	
-			DARK SHALE	17.0	174.0	
-			COAL	2.0	191.0	NOT SUITABLE FOR RESOURCE CALCULATIONS
-			GRAY SHALE	4.0	193.0	
-			SANDY SHALE	28.0	197.0	
-			SANDSTONE	25.0	225.0	

MAPID: 18501249000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2N 14W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.953451 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.560039 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2990.0 LOG TYPE: Electric Log
SOURCE: MORTIMER HARRY B WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-389.0	CARBONDALE	HERRIN	COAL	3.0	802.0	
-431.0	CARBONDALE	BRIAR HILL	COAL	-	844.0	
-467.0	CARBONDALE	SPRINGFIELD	COAL	3.0	880.0	
-549.0	CARBONDALE	HOUCHIN CREEK	COAL	-	962.0	

MAPID: 18501242000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2N 14W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 660' E line of SE
QUADRANGLE: BERRYVILLE LONGITUDE: -87.931297 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.561787 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2893.0 LOG TYPE: Electric Log
SOURCE: PHILLIPS PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-408.0	CARBONDALE	HERRIN	COAL	-	834.0
-462.0	CARBONDALE	BRIAR HILL	COAL	-	888.0
-520.0	CARBONDALE	SPRINGFIELD	COAL	6.0	946.0
-560.0	CARBONDALE	HOUCHIN CREEK	COAL	-	986.0

MAPID: 18501597000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2N 14W SECTION: 36 QUARTERS/FOOTAGES: 330' N line, 186' E line of SW
QUADRANGLE: BERRYVILLE LONGITUDE: -87.920346 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.561787 DATE COLLECTED:
SURFACE ELEVATION (FT.): 454.0 LOGGED (FT.): 2961.0 LOG TYPE: Electric Log
SOURCE: FULK, PERRY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-386.0	CARBONDALE	HERRIN	COAL	3.0	840.0
-438.0	CARBONDALE	BRIAR HILL	COAL	-	892.0
-474.0	CARBONDALE	SPRINGFIELD	COAL	4.0	928.0

MAPID: 18501549000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 12W SECTION: 6 QUARTERS/FOOTAGES: 70' N line, 990' W line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.786023 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.378027 DATE COLLECTED:
SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 2619.0 LOG TYPE: Electric Log
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-155.0	CARBONDALE	HERRIN	COAL	3.0	550.0
-239.0	CARBONDALE	BRIAR HILL	COAL	-	634.0
-272.0	CARBONDALE	SPRINGFIELD	COAL	7.0	667.0
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	740.0

MAPID: 18500124000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 1 QUARTERS/FOOTAGES: N2 NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.805784 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.377471 DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2576.0 LOG TYPE:

SOURCE: WILHELMI AL ETAL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	
60.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	365.0
-155.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	580.0
-450.0	CARBONDALE	COLCHESTER	COAL	-	875.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1375.0			LIMESTONE	-	1800.0
-1837.0		BASE BARLOW	LIMESTONE	-	2262.0
-2151.0	RENAULT	BASE RENAULT	LIMESTONE	-	2576.0

MAPID: 18501506000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 1 QUARTERS/FOOTAGES: 426' S line, 2326' W line

QUADRANGLE: KEENSBURG LONGITUDE: -87.809338 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.364829 DATE COLLECTED:

SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2283.0 LOG TYPE:

SOURCE: HELDT DEE-WALTN GOPH WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
267.0	BOND	CARTHAGE	LIMESTONE	-	125.0
90.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	302.0
-138.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	530.0
-451.0	CARBONDALE	COLCHESTER	COAL	-	843.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1376.0			LIMESTONE	-	1768.0
-1891.0		BASE BARLOW	LIMESTONE	-	2283.0

MAPID: 18502105000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 1 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.804779 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.369998 DATE COLLECTED: 8 / 17 / 1951

SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 1951.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
159.0	PATOKA	MACOUPIN	LIMESTONE	1.0	234.0
89.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.8	304.0
-82.0	SHELBURN	DANVILLE	COAL	2.0	475.0
-115.0	CARBONDALE	HERRIN	COAL	3.0	508.0
-177.0	CARBONDALE	BRIAR HILL	COAL	2.5	570.0
-222.0	CARBONDALE	SPRINGFIELD	SILTSTONE	0.0	615.0
-370.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	763.0
-446.0	CARBONDALE	COLCHESTER	COAL	-	839.0
-460.0	CARBONDALE	DEKOVEN	COAL	0.8	853.0
-487.0	CARBONDALE	DAVIS	COAL	3.0	880.0
-515.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	908.0

MAPID: 18502105000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 1 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.804779 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.369998 DATE COLLECTED:

SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 1732.0 LOG TYPE:

SOURCE: RYAN & SHARP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	
89.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	304.0
-114.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	507.0
-434.0	CARBONDALE	COLCHESTER	COAL	-	827.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1339.0			LIMESTONE	-	1732.0

MAPID: 18502237000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 1

QUARTERS/FOOTAGES: 990' S line, 330' E line of NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.800046

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.373761

DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0

LOGGED (FT.): 1726.0

LOG TYPE:

SOURCE: OLDS OIL & CHEMICAL CORP

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	
108.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	288.0
-124.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	520.0
-442.0	CARBONDALE	COLCHESTER	COAL	-	838.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1330.0			LIMESTONE	-	1726.0

MAPID: 18502237000C

VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 1

QUARTERS/FOOTAGES: 990' S line, 330' E line of NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.800046

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.373761

DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0

LOGGED (FT.): 1948.0

LOG TYPE: Electric Log

SOURCE: OLDS OIL & CHEMICAL CORP

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	CARBONDALE	HERRIN	COAL	2.0	523.0
-190.0	CARBONDALE	BRIAR HILL	COAL	-	586.0
-360.0	CARBONDALE	HOUCHIN CREEK	COAL	-	756.0

MAPID: 18502925000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 1

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.814001

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.371583

DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0

LOGGED (FT.): 2614.0

LOG TYPE:

SOURCE: D T DRLG CO

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	BOND	CARTHAGE	LIMESTONE	-		
97.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	365.0	
-125.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	587.0	
-452.0	CARBONDALE	COLCHESTER	COAL	-	914.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1388.0			LIMESTONE	-	1850.0	
-1866.0		BASE BARLOW	LIMESTONE	-	2328.0	
-2152.0	RENAULT	BASE RENAULT	LIMESTONE	-	2614.0	

MAPID: 18590108000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 1 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.810298 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.364415 DATE COLLECTED: 6 / 26 / 1980

SURFACE ELEVATION (FT.): 387.2 LOGGED (FT.): 780.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-243 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
387.2	PLEISTOCENE		SILT	1.0	0.0
386.2	PLEISTOCENE		CLAY	5.0	1.0
381.2	PLEISTOCENE		SAND & GRAVEL	10.0	6.0
371.2			BLACK SHALE	5.0	16.0
366.2			GRAY SHALE	13.0	21.0
353.2			LIMESTONE	1.0	34.0
352.2			SANDY SHALE	18.0	35.0
334.2			SANDSTONE	57.0	53.0
277.2	BOND		SANDY SHALE	109.0	110.0
168.2	PATOKA	MACOUPIN	LIMESTONE	2.0	219.0
166.2	PATOKA		SANDY SHALE	59.0	221.0
107.2	PATOKA		DARK SHALE	7.0	280.0
100.2	PATOKA		COAL	3.0	287.0
97.2	PATOKA		UNDERCLAY	1.0	290.0
96.2	PATOKA		GRAY SHALE	5.0	291.0
91.2	SHELBURN		LIMESTONE	7.5	296.0
83.7	SHELBURN		SANDSTONE	21.5	303.5
62.2	SHELBURN		SANDY SHALE	169.0	325.0
-106.8	SHELBURN		LIMESTONE	4.0	494.0
-110.8	SHELBURN		SANDY SHALE	19.0	498.0
-129.8	SHELBURN	BRERETON	LIMESTONE	4.0	517.0
-133.8	CARBONDALE	ANNA	BLACK SHALE	2.0	521.0
-135.8	CARBONDALE	HERRIN	COAL	4.0	523.0
-139.8	CARBONDALE		UNDERCLAY	1.0	527.0
-140.8	CARBONDALE		SANDY SHALE	127.7	528.0
-268.5	CARBONDALE		SANDSTONE/SHALE	4.4	655.7
-272.9	CARBONDALE		SANDSTONE	1.6	660.1
-274.5	CARBONDALE		SANDSTONE/SHALE	4.1	661.7
-278.6	CARBONDALE		SANDSTONE	0.2	665.8
-278.8	CARBONDALE	SPRINGFIELD	COAL	4.7	666.0
-283.5	CARBONDALE		CARBONACEOUS SHALE	1.4	670.7
-284.9	CARBONDALE		UNDERCLAY	2.7	672.1
-287.6	CARBONDALE		GRAY SHALE	8.7	674.8
-296.3	CARBONDALE		SANDY SHALE	66.0	683.5
-362.3	CARBONDALE		COAL	1.0	749.5
-363.3	CARBONDALE		UNDERCLAY	1.5	750.5
-364.8	CARBONDALE		GRAY SHALE	7.0	752.0
-371.8	CARBONDALE		BLACK SHALE	2.0	759.0
-373.8	CARBONDALE	HOUCHIN CREEK	COAL	3.0	761.0

-376.8	CARBONDALE	UNDERCLAY	1.0	764.0
-377.8	CARBONDALE	COAL	1.0	765.0
-378.8	CARBONDALE	UNDERCLAY	1.0	766.0
-379.8	CARBONDALE	GRAY SHALE	13.0	767.0

MAPID: 18501519000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.830203 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.371697 DATE COLLECTED:

SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2361.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
216.0	BOND	CARTHAGE	LIMESTONE	-	215.0
-5.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0
-235.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	666.0
-508.0	CARBONDALE	COLCHESTER	COAL	-	939.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1458.0			LIMESTONE	-	1889.0
-1930.0		BASE BARLOW	LIMESTONE	-	2361.0

MAPID: 18501555000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: KEENSBURG LONGITUDE: -87.818654 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.363582 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2589.0 LOG TYPE:

SOURCE: BRUBECK, W. E. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
242.0	BOND	CARTHAGE	LIMESTONE	-	152.0
67.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	327.0
-170.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	564.0
-468.0	CARBONDALE	COLCHESTER	COAL	-	862.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1407.0			LIMESTONE	-	1801.0
-1909.0		BASE BARLOW	LIMESTONE	-	2303.0
-2195.0	RENAULT	BASE RENAULT	LIMESTONE	-	2589.0

MAPID: 18502358000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.827858 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.367722 DATE COLLECTED:

SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2643.0 LOG TYPE:

SOURCE: MABEE PETROLEUM CORP. WELL TYPE: Producer-Oil

COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
172.0	BOND	CARTHAGE	LIMESTONE	-	250.0
-8.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	430.0
-242.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	664.0
-528.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1378.0			LIMESTONE	-	1800.0
-1951.0		BASE BARLOW	LIMESTONE	-	2373.0
-2221.0	RENAULT	BASE RENAULT	LIMESTONE	-	2643.0

MAPID: 18502358000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.827858 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.367722 DATE COLLECTED:

SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2768.0 LOG TYPE: Electric Log

SOURCE: MABEE PETROLEUM CORP. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-244.0	CARBONDALE	HERRIN	COAL	2.0	666.0
-300.0	CARBONDALE	BRIAR HILL	COAL	-	722.0
-372.0	CARBONDALE	SPRINGFIELD	COAL	3.0	794.0
-468.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0

MAPID: 18502358000C VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.827858 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.367722 DATE COLLECTED: 4 / 4 / 1956

SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 2768.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
267.0	BOND	REEL	LIMESTONE	1.0	155.0
240.0	BOND	MT. CARMEL	SANDSTONE	68.0	182.0
171.0	BOND	CARTHAGE	LIMESTONE	8.0	251.0
72.0	PATOKA	MACOUPIN	LIMESTONE	1.0	350.0
-8.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	430.0
-206.0	SHELBURN	DANVILLE	COAL	2.7	628.0
-242.0	CARBONDALE	HERRIN	COAL	3.0	664.0
-302.0	CARBONDALE	BRIAR HILL	COAL	1.6	724.0
-372.0	CARBONDALE	SPRINGFIELD	COAL	9.0	794.0
-471.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	893.0
-482.0	CARBONDALE		COAL	2.5	904.0
-528.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-553.0	CARBONDALE	DEKOVEN	COAL	2.8	975.0
-574.0	CARBONDALE	DAVIS	COAL	4.7	996.0
-600.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1022.0

MAPID: 18502755000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 467' S line, 309' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.83491 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.372149 DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 2352.0 LOG TYPE:

SOURCE: ROAN DR BERT & SON WELL TYPE: Producer-Oil

COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	
-6.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	454.0
-241.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	689.0
-512.0	CARBONDALE	COLCHESTER	COAL	-	960.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1442.0			LIMESTONE	-	1890.0
-1904.0		BASE BARLOW	LIMESTONE	-	2352.0

MAPID: 18504488000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 2 **QUARTERS/FOOTAGES:** 1320' N line, 330' E line
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.818623 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.374892 **DATE COLLECTED:** 1 / 24 / 1951
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 2776.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
324.0	BOND	REEL	LIMESTONE	1.0	110.0
297.0	BOND	MT. CARMEL	SANDSTONE	44.0	137.0
82.0	SHELBURN	WEST FRANKLIN	LIMESTONE	5.5	352.0
-113.0	SHELBURN	DANVILLE	COAL	3.0	547.0
-142.0	CARBONDALE	HERRIN	COAL	2.6	576.0
-201.0	CARBONDALE	BRIAR HILL	COAL	2.7	635.0
-241.0	CARBONDALE	SPRINGFIELD	SANDSTONE	0.0	675.0
-376.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	810.0
-399.0	CARBONDALE	SURVANT	COAL	2.0	833.0
-458.0	CARBONDALE	COLCHESTER	COAL	-	892.0
-500.0	CARBONDALE	DAVIS	COAL	4.5	934.0
-528.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	962.0

MAPID: 18504488000C **VERSION:** 2 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 2 **QUARTERS/FOOTAGES:** 1320' N line, 330' E line
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.818623 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.374892 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 2586.0 **LOG TYPE:**
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	
83.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	351.0
-138.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	572.0
-456.0	CARBONDALE	COLCHESTER	COAL	-	890.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1399.0			LIMESTONE	-	1833.0
-1866.0		BASE BARLOW	LIMESTONE	-	2300.0
-2152.0	RENAULT	BASE RENAULT	LIMESTONE	-	2586.0

MAPID: 18504651001M

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 2

QUARTERS/FOOTAGES: SW SE NW NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.823855

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.375128

DATE COLLECTED: 10 / 0 / 1942

SURFACE ELEVATION (FT.): 449.0

LOGGED (FT.): 54.0

LOG TYPE:

SOURCE:

WELL TYPE: Mine Shaft

COMMENT: SCHRODT MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
399.0	MATTOON	FRIENDSVILLE	COAL	4.0	50.0	

MAPID: 18505900000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: 1875' S line, 700' W line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.833469 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.368176 DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.0 LOGGED (FT.): 1029.9 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. T2-95 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.0			NO RECORD	662.8	0.0	
-221.8			SHALE	4.8	662.8	MED GRAY
-226.6			SANDSTONE	1.0	667.6	
-227.6			SHALE	3.1	668.6	MED GRAY
-230.7			SANDSTONE	4.6	671.7	
-235.3			SANDY SHALE	3.4	676.3	
-238.7			SHALE	1.4	679.7	DK GRAY
-240.1			SHALE	0.3	681.1	GRN GRAY
-240.4	CARBONDALE	BRERETON	LIMESTONE	2.5	681.4	
-242.9	CARBONDALE	ANNA	SHALE	1.1	683.9	
-243.9	CARBONDALE	HERRIN	COAL	4.1	684.9	
-248.1			CLAYSTONE	3.5	689.1	GAP IN CORE
-348.0	CARBONDALE	DYKERSBURG	SHALE	28.3	789.0	
-376.3	CARBONDALE	SPRINGFIELD	COAL	9.2	817.3	
-385.5			SHALE/COAL	0.7	826.5	
-386.2			UNDERCLAY	2.8	827.2	
-389.0			SILTY SHALE	7.8	830.0	GAP IN CORE
-528.0			BLACK SHALE	1.6	969.0	
-529.6			COAL	0.4	970.6	
-530.0			CLAYSTONE	1.8	971.0	
-531.7			ARGILLACEOUS SILTSTONE	6.0	972.7	
-537.7			SHALE	2.4	978.7	MED GRAY
-540.0			SHALE	7.5	981.0	DK GRAY
-547.5			SHALE	1.2	988.5	
-548.7			COAL	0.1	989.7	
-548.8			CLAYSTONE	0.8	989.8	&SILTSTONE
-549.6			SILTSTONE	0.6	990.6	OR SHALE
-550.2			COAL	2.3	991.2	
-552.5			UNDERCLAY	1.8	993.5	
-554.0			SANDSTONE	3.2	995.0	LT GRAY
-557.2			SANDSTONE	9.8	998.2	LT GRAY
-567.0			SHALE	2.1	1008.0	DK GRAY
-569.1			LIMESTONE	1.1	1010.1	
-570.2			SHALE	1.8	1011.2	DK GRAY
-572.0	SPOON	SEELYVILLE	COAL	5.7	1013.0	
-577.7			SANDY CLAYSTONE	3.0	1018.7	CARBONACEOUS
-580.7			SHALE	7.4	1021.7	GRN-GRY
-588.1			LIMESTONE	0.3	1029.1	

-588.4	BLACK SHALE	0.4	1029.4
-588.8	COAL	0.1	1029.8

MAPID: 185238A0017F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: SE NW NE

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.823275 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.375617 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 54.0 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: SCHRODT MINE FROM FIELD NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
399.0	MATTOON	FRIENDSVILLE	COAL	4.0	50.0

MAPID: 185238D0001F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 2 QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.830114 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.363906 DATE COLLECTED: 9 / 0 / 1942

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2.5 LOG TYPE: Measured section

SOURCE: WELL TYPE: Outcrop

COMMENT: FIELD NOTES SMALL MINES AND OUTCROPS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MATTOON	FRIENDSVILLE	COAL	2.5	

MAPID: 18500121000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853277 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.372017 DATE COLLECTED:

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 2640.0 LOG TYPE:

SOURCE: SINCLAIR WYOMING OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-28.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-266.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0
-561.0	CARBONDALE	COLCHESTER	COAL	-	973.0
-1460.0			LIMESTONE	-	1872.0
-1938.0		BASE BARLOW	LIMESTONE	-	2350.0
-2228.0	RENAULT	BASE RENAULT	LIMESTONE	-	2640.0

MAPID: 18500121000C

VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 3

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.853277

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.372017

DATE COLLECTED:

SURFACE ELEVATION (FT.): 412.0

LOGGED (FT.): 2767.0

LOG TYPE: Electric Log

SOURCE: SINCLAIR WYOMING OIL

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-267.0	CARBONDALE	HERRIN	COAL	3.0	679.0	
-324.0	CARBONDALE	BRIAR HILL	COAL	-	736.0	
-377.0	CARBONDALE	SPRINGFIELD	COAL	4.0	789.0	
-478.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0	

MAPID: 18500121000C VERSION: 3

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853277 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.372017 DATE COLLECTED: 3 / 0 / 1943

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 1273.0 LOG TYPE: Drillers Log

SOURCE: SINCLAIR WYOMING CO. 2 WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
412.0			UNCONSOLIDATED	55.0	0.0	GLACIAL DRIFT
357.0			SANDSTONE	44.5	55.0	
312.5			GRAY SHALE	6.0	99.5	
306.5	BOND		LIMESTONE	4.0	105.5	
302.5	BOND		GRAY SILTSTONE	20.5	109.5	
282.0	BOND		UNCLASSIFIED	5.0	130.0	NO SAMPLE
277.0	BOND		SANDY SHALE	9.5	135.0	
267.5	BOND	REEL	LIMESTONE	1.0	144.5	
266.5	BOND		SANDY SHALE	4.5	145.5	
262.0	BOND		SANDSTONE	21.0	150.0	
241.0	BOND		UNCLASSIFIED	4.0	171.0	NO SAMPLE
237.0	BOND		GRAY SILTSTONE	5.0	175.0	
232.0			UNCLASSIFIED	190.0	180.0	NO SAMLE
42.0	PATOKA		GRAY SILTSTONE	5.0	370.0	
37.0	PATOKA		UNCLASSIFIED	25.0	375.0	NO SAMPLE
12.0	PATOKA		GRAY SILTSTONE	2.0	400.0	
10.0	PATOKA		GRAY SHALE	10.0	402.0	
0.0	PATOKA		GRAY SHALE	3.0	412.0	
-3.0	PATOKA		GRAY SILTSTONE	3.0	415.0	
-6.0	PATOKA		GRAY SHALE	13.0	418.0	
-19.0	PATOKA		COAL	2.0	431.0	THICKNESS IS PROBABLY NOT ACCURATE
-21.0	PATOKA		UNDERCLAY	4.0	433.0	
-25.0	PATOKA		CALCAREOUS SILTSTONE	4.0	437.0	
-29.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	441.0	
-37.0	SHELBURN		CALCAREOUS SHALE	2.0	449.0	
-39.0	SHELBURN		LIMESTONE	6.0	451.0	
-45.0	SHELBURN		CALCAREOUS SILTSTONE	20.0	457.0	
-65.0	SHELBURN		GRAY SHALE	31.0	477.0	
-96.0	SHELBURN		SANDSTONE	1.0	508.0	
-97.0	SHELBURN		GRAY SILTSTONE	4.0	509.0	
-101.0	SHELBURN		GRAY SHALE	8.0	513.0	
-109.0	SHELBURN		SANDSTONE	19.0	521.0	
-128.0	SHELBURN		GRAY SHALE	1.0	540.0	
-129.0	SHELBURN		GRAY SILTSTONE	2.0	541.0	
-131.0	SHELBURN		GRAY SHALE	2.0	543.0	
-133.0	SHELBURN		GRAY SILTSTONE	2.0	545.0	
-135.0	SHELBURN		GRAY SHALE	11.0	547.0	
-146.0	SHELBURN		SANDSTONE	4.0	558.0	
-150.0	SHELBURN		GRAY SILTSTONE	5.0	562.0	

-155.0	SHELBURN		GRAY SHALE	11.0	567.0	
-166.0	SHELBURN		SANDSTONE	1.0	578.0	
-167.0	SHELBURN		GRAY SHALE	1.0	579.0	
-168.0	SHELBURN		SANDSTONE	1.0	580.0	
-169.0	SHELBURN		GRAY SHALE	1.0	581.0	
-170.0	SHELBURN		SANDSTONE	3.0	582.0	
-173.0	SHELBURN		GRAY SILTSTONE	12.0	585.0	
-185.0	SHELBURN		DARK GRAY SHALE	1.0	597.0	
-186.0	SHELBURN		SANDSTONE	1.0	598.0	
-187.0	SHELBURN		GRAY SHALE	1.0	599.0	
-188.0	SHELBURN		SANDSTONE	2.0	600.0	
-190.0	SHELBURN		SILTY SHALE	47.0	602.0	
-237.0	SHELBURN	DANVILLE	COAL	1.0	649.0	THICKNESS IS PROBABLY NOT ACCURATE
-238.0	SHELBURN		UNDERCLAY	1.0	650.0	
-239.0	SHELBURN		GRAY SHALE	3.0	651.0	
-242.0	SHELBURN		LIMESTONE	4.0	654.0	
-246.0	SHELBURN		GRAY SHALE	4.0	658.0	
-250.0	SHELBURN		SANDSTONE	4.0	662.0	
-254.0	SHELBURN		GRAY SHALE	5.0	666.0	
-259.0	SHELBURN		LIMESTONE	3.0	671.0	
-262.0	CARBONDALE		GRAY SHALE	2.0	674.0	
-264.0	CARBONDALE		BLACK SHALE	2.0	676.0	
-266.0	CARBONDALE	HERRIN	COAL	3.0	678.0	THICKNESS IS PROBABLY NOT ACCURATE
-269.0	CARBONDALE		UNDERCLAY	1.0	681.0	
-270.0	CARBONDALE		GRAY SHALE	5.0	682.0	
-275.0	CARBONDALE		SANDSTONE	17.0	687.0	
-292.0	CARBONDALE		GRAY SILTSTONE	2.0	704.0	
-294.0	CARBONDALE		GRAY SHALE	2.0	706.0	
-296.0	CARBONDALE		GRAY SILTSTONE	1.0	708.0	
-297.0	CARBONDALE		GRAY SHALE	1.0	709.0	
-298.0	CARBONDALE		GRAY SILTSTONE	4.0	710.0	
-302.0	CARBONDALE		SANDSTONE	3.0	714.0	
-305.0	CARBONDALE		DARK GRAY SHALE	1.0	717.0	
-306.0	CARBONDALE		SILTSTONE	9.0	718.0	
-315.0	CARBONDALE		DARK GRAY SHALE	1.0	727.0	
-316.0	CARBONDALE		SANDY SILTSTONE	6.0	728.0	
-322.0	CARBONDALE		DARK GRAY SHALE	6.0	734.0	
-328.0	CARBONDALE		DARK GRAY SHALE	6.0	740.0	
-334.0	CARBONDALE		SANDSTONE	2.0	746.0	
-336.0	CARBONDALE		SANDSTONE	5.0	748.0	
-341.0	CARBONDALE		GRAY SILTSTONE	3.0	753.0	
-344.0	CARBONDALE		SANDSTONE	5.0	756.0	
-349.0	CARBONDALE		GRAY SHALE	1.0	761.0	
-350.0	CARBONDALE		GRAY SILTSTONE	23.0	762.0	
-373.0	CARBONDALE		GRAY SHALE	7.0	785.0	
-380.0	CARBONDALE		DARK GRAY SHALE	15.0	792.0	
-395.0	CARBONDALE		GRAY SILTSTONE	13.0	807.0	

-408.0	CARBONDALE		GRAY SILTSTONE	6.0	820.0	
-414.0	CARBONDALE		GRAY SHALE	1.0	826.0	
-415.0	CARBONDALE		GRAY SILTSTONE	10.0	827.0	
-425.0	CARBONDALE		GRAY SHALE	1.0	837.0	
-426.0	CARBONDALE		SANDY SILTSTONE	4.0	838.0	GRAY
-430.0	CARBONDALE		GRAY SHALE	1.0	842.0	
-431.0	CARBONDALE		GRAY SILTSTONE	12.0	843.0	
-443.0	CARBONDALE		GRAY SHALE	1.0	855.0	
-444.0	CARBONDALE		GRAY SILTSTONE	15.0	856.0	
-459.0	CARBONDALE		GRAY SHALE	10.0	871.0	
-469.0	CARBONDALE		GRAY SILTSTONE	4.0	881.0	
-473.0	CARBONDALE		GRAY SHALE	2.0	885.0	
-475.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	887.0	THICKNESS IS PROBABLY NOT ACCURATE
-477.0	CARBONDALE		UNDERCLAY	2.0	889.0	
-479.0	CARBONDALE		GRAY SILTSTONE	10.0	891.0	
-489.0	CARBONDALE		GRAY SHALE	5.0	901.0	
-494.0	CARBONDALE		GRAY SILTSTONE	7.0	906.0	
-501.0	CARBONDALE		GRAY SHALE	8.0	913.0	
-509.0	CARBONDALE		GRAY SILTSTONE	15.0	921.0	
-524.0	CARBONDALE		GRAY SHALE	1.0	936.0	
-525.0	CARBONDALE		GRAY SILTSTONE	1.0	937.0	
-526.0	CARBONDALE		GRAY SHALE	1.0	938.0	
-527.0	CARBONDALE		GRAY SILTSTONE	2.0	939.0	
-529.0	CARBONDALE		DARK GRAY SHALE	11.0	941.0	
-540.0	CARBONDALE		SANDSTONE	1.0	952.0	
-541.0	CARBONDALE		GRAY SHALE	1.0	953.0	
-542.0	CARBONDALE		GRAY SILTSTONE	1.0	954.0	
-543.0	CARBONDALE		LIMESTONE	1.0	955.0	
-544.0	CARBONDALE		DARK GRAY SHALE	1.0	956.0	
-545.0	CARBONDALE		BLACK SHALE	2.0	957.0	
-547.0	CARBONDALE		BLACK SHALE	5.0	959.0	
-552.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	964.0	
-553.0	CARBONDALE		UNDERCLAY	1.0	965.0	
-554.0	CARBONDALE		BLACK SHALE	4.0	966.0	
-558.0	CARBONDALE		BLACK SHALE	2.0	970.0	
-560.0	CARBONDALE		LIMESTONE	4.0	972.0	
-564.0	CARBONDALE		DARK GRAY SHALE	8.0	976.0	
-572.0	CARBONDALE		BLACK SHALE	1.0	984.0	
-573.0	CARBONDALE	DEKOVEN	COAL	1.0	985.0	THICKNESS IS PROBABLY NOT ACCURATE
-574.0	CARBONDALE		GRAY SHALE	1.0	986.0	
-575.0	CARBONDALE		GRAY SILTSTONE	3.0	987.0	
-578.0	CARBONDALE		GRAY SHALE	13.0	990.0	
-591.0	CARBONDALE		DARK GRAY SHALE	4.0	1003.0	
-595.0	CARBONDALE	DAVIS	COAL	1.0	1007.0	THICKNESS IS PROBABLY NOT ACCURATE
-596.0	TRADEWATER		UNDERCLAY	1.0	1008.0	
-597.0	TRADEWATER		GRAY SILTSTONE	1.0	1009.0	
-598.0	TRADEWATER		SANDSTONE	2.0	1010.0	

-600.0	TRADEWATER	SILTSTONE	2.0	1012.0	
-602.0	TRADEWATER	UNCLASSIFIED	5.0	1014.0	NO SAMPLE
-607.0	TRADEWATER	GRAY SHALE	5.0	1019.0	
-612.0	TRADEWATER	BLACK SHALE	2.0	1024.0	
-614.0	TRADEWATER	UNDERCLAY	1.0	1026.0	
-615.0	TRADEWATER	SANDSTONE	2.0	1027.0	
-617.0	TRADEWATER	GRAY SILTSTONE	4.0	1029.0	
-621.0	TRADEWATER	LIMESTONE	16.0	1033.0	
-637.0	TRADEWATER	GRAY SHALE	25.0	1049.0	
-662.0	TRADEWATER	SANDSTONE	60.0	1074.0	
-722.0	TRADEWATER	GRAY SILTSTONE	10.0	1134.0	
-732.0	TRADEWATER	GRAY SHALE	7.0	1144.0	
-739.0	TRADEWATER	LIMESTONE	3.0	1151.0	
-742.0	TRADEWATER	COAL	2.0	1154.0	THICKNESS IS PROBABLY NOT ACCURATE
-744.0	TRADEWATER	GRAY SHALE	6.0	1156.0	
-750.0	TRADEWATER	COAL	2.0	1162.0	THICKNESS IS PROBABLY NOT ACCURATE
-752.0	TRADEWATER	UNDERCLAY	1.0	1164.0	
-753.0	TRADEWATER	GRAY SHALE	19.0	1165.0	
-772.0	TRADEWATER	GRAY SILTSTONE	16.0	1184.0	
-788.0	TRADEWATER	GRAY SHALE	4.0	1200.0	
-792.0	TRADEWATER	COAL	1.0	1204.0	THICKNESS IS PROBABLY NOT ACCURATE
-793.0	TRADEWATER	UNDERCLAY	2.0	1205.0	
-795.0	TRADEWATER	SANDSTONE	2.0	1207.0	
-797.0	TRADEWATER	GRAY SILTSTONE	8.0	1209.0	
-805.0	TRADEWATER	COAL	1.0	1217.0	THICKNESS IS PROBABLY NOT ACCURATE
-806.0	TRADEWATER	UNDERCLAY	1.0	1218.0	
-807.0	TRADEWATER	SANDSTONE	11.0	1219.0	
-818.0	TRADEWATER	GRAY SHALE	5.0	1230.0	
-823.0	TRADEWATER	SANDSTONE	4.0	1235.0	
-827.0	TRADEWATER	GRAY SHALE	2.0	1239.0	
-829.0	TRADEWATER	SANDSTONE	5.0	1241.0	
-834.0	TRADEWATER	BLACK SHALE	1.0	1246.0	
-835.0	TRADEWATER	UNDERCLAY	1.0	1247.0	
-836.0	TRADEWATER	SANDSTONE	5.0	1248.0	
-841.0	TRADEWATER	GRAY SHALE	2.0	1253.0	
-843.0	TRADEWATER	SANDSTONE	2.0	1255.0	
-845.0	TRADEWATER	GRAY SHALE	1.0	1257.0	
-846.0	TRADEWATER	SANDSTONE	15.0	1258.0	

MAPID: 18500121000C **VERSION:** 5 **PROJECT:** CONTROL
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.853277 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.372017 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2767.0 **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: 18500295000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.851004 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.364273 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 2383.0 **LOG TYPE:**
SOURCE: EXCHANGE OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-56.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	455.0
-291.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-581.0	CARBONDALE	COLCHESTER	COAL	-	980.0
-1478.0			LIMESTONE	-	1877.0
-1984.0		BASE BARLOW	LIMESTONE	-	2383.0

MAPID: 18501491000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 1065' E line
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.839825 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.377811 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 2286.0 **LOG TYPE:**
SOURCE: SKILES, C. E., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
186.0	BOND	CARTHAGE	LIMESTONE	-	221.0
9.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	398.0
-207.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	614.0
-523.0	CARBONDALE	COLCHESTER	COAL	-	930.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1398.0			LIMESTONE	-	1805.0
-1879.0		BASE BARLOW	LIMESTONE	-	2286.0

MAPID: 18501507000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 405' E line
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.837514 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.377797 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 2304.0 **LOG TYPE:**
SOURCE: SKILES, C. E., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
180.0	BOND	CARTHAGE	LIMESTONE	-	230.0
-2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	412.0
-226.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	636.0
-536.0	CARBONDALE	COLCHESTER	COAL	-	946.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1406.0			LIMESTONE	-	1816.0
-1894.0		BASE BARLOW	LIMESTONE	-	2304.0

MAPID: 18501508000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of SE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.841731 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.370041 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 2619.0 **LOG TYPE:**
SOURCE: SKILES, C. E., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-42.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	452.0
-276.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	686.0
-564.0	CARBONDALE	COLCHESTER	COAL	-	974.0
-1452.0			LIMESTONE	-	1862.0
-1934.0		BASE BARLOW	LIMESTONE	-	2344.0
-2209.0	RENAULT	BASE RENAULT	LIMESTONE	-	2619.0

MAPID: 18501512000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.83711 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.36998 DATE COLLECTED:
SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 2366.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
150.0	BOND	CARTHAGE	LIMESTONE	-	282.0
-27.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	459.0
-252.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	684.0
-534.0	CARBONDALE	COLCHESTER	COAL	-	966.0
-1464.0			LIMESTONE	-	1896.0
-1934.0		BASE BARLOW	LIMESTONE	-	2366.0

MAPID: 18501513000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 975' N line, 435' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.837587 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.376017 DATE COLLECTED:
SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 2302.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-4.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	414.0
-225.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	635.0
-534.0	CARBONDALE	COLCHESTER	COAL	-	944.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1421.0			LIMESTONE	-	1831.0
-1892.0		BASE BARLOW	LIMESTONE	-	2302.0

MAPID: 18501608000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 330' W line

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.853219 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.377893 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2597.0 LOG TYPE:

SOURCE: CALVERT & WILLIS, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-22.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0
-250.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	664.0
-556.0	CARBONDALE	COLCHESTER	COAL	-	970.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1442.0			LIMESTONE	-	1856.0
-1921.0		BASE BARLOW	LIMESTONE	-	2335.0
-2183.0	RENAULT	BASE RENAULT	LIMESTONE	-	2597.0

MAPID: 18501670000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 400' S line, 330' W line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.844055 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.372087 DATE COLLECTED:

SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 2334.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-25.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	434.0
-254.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	663.0
-548.0	CARBONDALE	COLCHESTER	COAL	-	957.0
-1444.0			LIMESTONE	-	1853.0
-1925.0		BASE BARLOW	LIMESTONE	-	2334.0

MAPID: 18502756000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 3

QUARTERS/FOOTAGES: 330' S line, 1330' W line of NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.840549

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.371849

DATE COLLECTED:

SURFACE ELEVATION (FT.): 410.0

LOGGED (FT.): 2326.0

LOG TYPE:

SOURCE: ROAN DR BERT & SON

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	442.0
-262.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	672.0
-546.0	CARBONDALE	COLCHESTER	COAL	-	956.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1424.0			LIMESTONE	-	1834.0
-1916.0		BASE BARLOW	LIMESTONE	-	2326.0

MAPID: 18502756000C

VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 3

QUARTERS/FOOTAGES: 330' S line, 1330' W line of NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.840549

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.371849

DATE COLLECTED:

SURFACE ELEVATION (FT.): 410.0

LOGGED (FT.): 2350.0

LOG TYPE: Electric Log

SOURCE: ROAN DR BERT & SON

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-264.0	CARBONDALE	HERRIN	COAL	3.0	674.0
-318.0	CARBONDALE	BRIAR HILL	COAL	-	728.0
-386.0	CARBONDALE	SPRINGFIELD	COAL	8.0	796.0
-476.0	CARBONDALE	HOUCHIN CREEK	COAL	-	886.0

MAPID: 18502756000C

VERSION: 3

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 3

QUARTERS/FOOTAGES: 330' S line, 1330' W line of NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.840549

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.371849

DATE COLLECTED: 9 / 25 / 1948

SURFACE ELEVATION (FT.): 410.0

LOGGED (FT.): 2350.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
298.0	BOND	WITT	COAL	4.3	112.0
247.0	BOND	REEL	LIMESTONE	2.0	163.0
201.0	BOND	MT. CARMEL	SANDSTONE	53.0	209.0
144.0	BOND	CARTHAGE	LIMESTONE	5.3	266.0
-31.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.8	441.0
-233.0	SHELBURN	DANVILLE	COAL	3.5	643.0
-265.0	CARBONDALE	HERRIN	COAL	3.0	675.0
-320.0	CARBONDALE	BRIAR HILL	COAL	-	730.0
-385.0	CARBONDALE	SPRINGFIELD	COAL	8.5	795.0
-479.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	889.0
-550.0	CARBONDALE	COLCHESTER	COAL	-	960.0
-561.0	CARBONDALE	DEKOVEN	COAL	1.8	971.0
-582.0	CARBONDALE	DAVIS	COAL	4.7	992.0
-612.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1022.0

MAPID: 18502757000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 353' N line, 330' W line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.848684 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.366206 DATE COLLECTED: 10 / 11 / 1951

SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2782.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
298.0	BOND	WITT	COAL	1.0	115.0
249.0	BOND	REEL	LIMESTONE	3.0	164.0
203.0	BOND	MT. CARMEL	SANDSTONE	108.0	210.0
53.0	PATOKA	MACOUPIN	LIMESTONE	2.0	360.0
-39.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	452.0
-235.0	SHELBURN	DANVILLE	COAL	2.0	648.0
-267.0	CARBONDALE	HERRIN	COAL	2.3	680.0
-325.0	CARBONDALE	BRIAR HILL	COAL	1.0	738.0
-397.0	CARBONDALE	SPRINGFIELD	COAL	8.0	810.0
-467.0	CARBONDALE	HOUCHIN CREEK	COAL	1.3	880.0
-566.0	CARBONDALE	COLCHESTER	COAL	-	979.0
-579.0	CARBONDALE	DEKOVEN	COAL	1.0	992.0
-601.0	CARBONDALE	DAVIS	COAL	5.0	1014.0
-625.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1038.0

MAPID: 18502757000C VERSION: 2

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 353' N line, 330' W line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.848684 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.366206 DATE COLLECTED:

SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2681.0 LOG TYPE:

SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-40.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	453.0
-265.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0
-564.0	CARBONDALE	COLCHESTER	COAL	-	977.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1450.0			LIMESTONE	-	1863.0
-1959.0		BASE BARLOW	LIMESTONE	-	2372.0
-2268.0	RENAULT	BASE RENAULT	LIMESTONE	-	2681.0

MAPID: 18504489000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 1725' E line
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.84214 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.377825 DATE COLLECTED:
SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 2290.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
8.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	397.0
-215.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	620.0
-520.0	CARBONDALE	COLCHESTER	COAL	-	925.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1400.0			LIMESTONE	-	1805.0
-1885.0		BASE BARLOW	LIMESTONE	-	2290.0

MAPID: 18504490000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.839484 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.375732 DATE COLLECTED:
SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 2306.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-5.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	412.0
-225.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	632.0
-527.0	CARBONDALE	COLCHESTER	COAL	-	934.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1409.0			LIMESTONE	-	1816.0
-1899.0		BASE BARLOW	LIMESTONE	-	2306.0

MAPID: 18504491000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844071 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.375776 DATE COLLECTED:
SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2298.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	406.0
-222.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	626.0
-526.0	CARBONDALE	COLCHESTER	COAL	-	930.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1429.0			LIMESTONE	-	1833.0
-1894.0		BASE BARLOW	LIMESTONE	-	2298.0

MAPID: 18504492000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 467' S line, 757' E line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.838647 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.3722 DATE COLLECTED:
SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2309.0 LOG TYPE:
SOURCE: ROAN DR BERT & SON WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
143.0	BOND	CARTHAGE	LIMESTONE	-	270.0
-27.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-257.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-534.0	CARBONDALE	COLCHESTER	COAL	-	947.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1453.0			LIMESTONE	-	1866.0
-1896.0		BASE BARLOW	LIMESTONE	-	2309.0

MAPID: 18504493000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 224' E line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.836773 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.371797 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2350.0 LOG TYPE:

SOURCE: ROAN DR BERT & SON WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	BOND	CARTHAGE	LIMESTONE	-	278.0
-21.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	450.0
-256.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-526.0	CARBONDALE	COLCHESTER	COAL	-	955.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1401.0			LIMESTONE	-	1830.0
-1921.0		BASE BARLOW	LIMESTONE	-	2350.0

MAPID: 18504494000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: KEENSBURG LONGITUDE: -87.837004 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.363986 DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2642.0 LOG TYPE:

SOURCE: GALLAGHER, VICTOR R. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-19.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	423.0
-256.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	660.0
-540.0	CARBONDALE	COLCHESTER	COAL	-	944.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1483.0			LIMESTONE	-	1887.0
-1951.0		BASE BARLOW	LIMESTONE	-	2355.0
-2238.0	RENAULT	BASE RENAULT	LIMESTONE	-	2642.0

MAPID: 18504495000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846375 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.373979 DATE COLLECTED:
SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 2314.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-19.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	424.0
-249.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	654.0
-547.0	CARBONDALE	COLCHESTER	COAL	-	952.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1427.0			LIMESTONE	-	1832.0
-1909.0		BASE BARLOW	LIMESTONE	-	2314.0

MAPID: 18504496000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 455' S line, 330' E line of SW NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.85098 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.372333 DATE COLLECTED:
SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 2347.0 LOG TYPE:
SOURCE: MESSMAN, GRAHAM, ETAL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-27.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	432.0
-272.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	677.0
-569.0	CARBONDALE	COLCHESTER	COAL	-	974.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1445.0			LIMESTONE	-	1850.0
-1942.0		BASE BARLOW	LIMESTONE	-	2347.0

MAPID: 18504497000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 1650' N line, 330' W line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.853258 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.374248 DATE COLLECTED:
SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 2617.0 LOG TYPE:
SOURCE: CALVERT & WILLIS, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	436.0
-256.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	666.0
-1450.0			LIMESTONE	-	1860.0
-1934.0		BASE BARLOW	LIMESTONE	-	2344.0
-2207.0	RENAULT	BASE RENAULT	LIMESTONE	-	2617.0

MAPID: 18504498000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844061 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.373954 DATE COLLECTED:
SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2313.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-14.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	418.0
-238.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	642.0
-1436.0			LIMESTONE	-	1840.0
-1909.0		BASE BARLOW	LIMESTONE	-	2313.0

MAPID: 18504499000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 500' N line, 330' E line of SW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.841775 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.373463 DATE COLLECTED:
SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 2326.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
161.0	BOND	CARTHAGE	LIMESTONE	-	248.0
-10.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	419.0
-237.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	646.0
-515.0	CARBONDALE	COLCHESTER	COAL	-	924.0
-1412.0			LIMESTONE	-	1821.0
-1917.0		BASE BARLOW	LIMESTONE	-	2326.0

MAPID: 18504500000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 3

QUARTERS/FOOTAGES: 479' N line, 680' E line of SE NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.8384

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.373489

DATE COLLECTED:

SURFACE ELEVATION (FT.): 409.0

LOGGED (FT.): 2305.0

LOG TYPE:

SOURCE: SKILES, C. E., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-19.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	428.0
-243.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	652.0
-531.0	CARBONDALE	COLCHESTER	COAL	-	940.0
-1431.0			LIMESTONE	-	1840.0
-1896.0		BASE BARLOW	LIMESTONE	-	2305.0

MAPID: 18504726000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 3

QUARTERS/FOOTAGES: 614' N line, 330' E line of NW

QUADRANGLE: MOUNT CARMEL

LONGITUDE: -87.846388

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.377069

DATE COLLECTED:

SURFACE ELEVATION (FT.): 408.0

LOGGED (FT.): 2576.0

LOG TYPE:

SOURCE: BARKER, EARNEST I.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1406.0			LIMESTONE	-	1814.0
-1879.0		BASE BARLOW	LIMESTONE	-	2287.0
-2168.0	RENAULT	BASE RENAULT	LIMESTONE	-	2576.0

MAPID: 18505295000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:** 250' N line, 370' E line of NW NE
QUADRANGLE: MOUNT CARMEL **LONGITUDE:** -87.841963 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.378046 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 2289.0 **LOG TYPE:**
SOURCE: IN FARM BUR. COOP. ASSOC **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
190.0	BOND	CARTHAGE	LIMESTONE	-	217.0
8.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	399.0
-213.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	620.0
-520.0	CARBONDALE	COLCHESTER	COAL	-	927.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1400.0			LIMESTONE	-	1807.0
-1882.0		BASE BARLOW	LIMESTONE	-	2289.0

MAPID: 18505328000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:**
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.845206 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.370999 **DATE COLLECTED:** 7 / 16 / 1957
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 30.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO 0FR **WELL TYPE:** Coal Test
COMMENT: SEE COAL SECTION MAP#2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
405.0			UNCONSOLIDATED	28.3	0.0
376.7			COAL	1.7	28.3

MAPID: 18505329000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 3 **QUARTERS/FOOTAGES:**
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.845206 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.370999 **DATE COLLECTED:** 7 / 16 / 1957
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 35.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO 5329 **WELL TYPE:** Coal Test
COMMENT: LOCATION MAY BE SESWSW OF 34-1S-13W

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
405.0			UNCONSOLIDATED	28.3	0.0
376.7			COAL	0.2	28.3
376.5			SHALY COAL	3.8	28.5 WITH PYRITE STREAKS
372.7			SANDY CLAYSTONE	2.8	32.3 DK GRAY

MAPID: 18590109000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 311' N line, 28' E line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.845181 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.366012 DATE COLLECTED: 6 / 24 / 1982

SURFACE ELEVATION (FT.): 409.7 LOGGED (FT.): 919.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-297 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
409.7	PLEISTOCENE		CLAY	7.0	0.0	
402.7	PLEISTOCENE		SAND	4.0	7.0	
398.7	PLEISTOCENE		UNCONSOLIDATED	5.0	11.0	
393.7	PLEISTOCENE		CLAY	3.0	16.0	YEL
390.7	PLEISTOCENE		CLAY	9.0	19.0	GRAY
381.7	PLEISTOCENE		CLAY	7.0	28.0	YEL
374.7			COAL	2.0	35.0	TOP ERODED
372.7			CLAYSTONE	8.0	37.0	
364.7			COAL	1.0	45.0	
363.7			SANDY SHALE	54.0	46.0	
309.7			DARK SHALE	12.0	100.0	
297.7			COAL	2.0	112.0	
295.7			GRAY SHALE	6.0	114.0	
289.7	BOND		LIMESTONE	1.0	120.0	
288.7	BOND		GRAY SHALE	2.5	121.0	
286.2	BOND		LIMESTONE	1.0	123.5	
285.2	BOND		GRAY SHALE	5.5	124.5	
279.7	BOND		LIMESTONE	3.0	130.0	
276.7	BOND		GRAY SHALE	30.0	133.0	
246.7	BOND		GRAY SANDSTONE	1.0	163.0	
245.7	BOND		BLACK SHALE	1.0	164.0	
244.7	BOND		GRAY SHALE	9.0	165.0	
235.7	BOND		BROWN LIMESTONE	1.0	174.0	
234.7	BOND		SANDY SHALE	40.0	175.0	
194.7	BOND	MT. CARMEL	GRAY SANDSTONE	107.0	215.0	
87.7	BOND		COAL	1.0	322.0	
86.7	BOND		GRAY SANDSTONE	22.0	323.0	
64.7	BOND		DARK SHALE	28.0	345.0	
36.7	PATOKA		COAL	2.0	373.0	
34.7	PATOKA		GRAY SHALE	22.0	375.0	
12.7	PATOKA		GRAY SANDSTONE	2.0	397.0	
10.7	PATOKA		GRAY SHALE	36.0	399.0	
-25.3	PATOKA		DARK SHALE	23.0	435.0	
-48.3	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	458.0	
-57.3	SHELBURN		GRAY SHALE	3.0	467.0	
-60.3	SHELBURN		LIMESTONE	3.0	470.0	
-63.3	SHELBURN		GRAY SANDSTONE	17.0	473.0	
-80.3	SHELBURN		SANDY SHALE	169.0	490.0	
-249.3	SHELBURN	DANVILLE	COAL	2.5	659.0	

-251.8	SHELburn		GRAY SHALE	3.0	661.5	
-254.8	SHELburn		LIMESTONE	4.0	664.5	
-258.8	SHELburn		GRAY SHALE	6.0	668.5	
-264.8	SHELburn		SILTY SHALE	2.1	674.5	
-266.9	SHELburn		DARK SHALE	0.4	676.6	
-267.3	SHELburn		SILTY SHALE	1.3	677.0	
-268.6	SHELburn		SANDSTONE	4.7	678.3	CALCAREOUS
-273.3	SHELburn		SILTY SHALE	1.9	683.0	
-275.2	SHELburn		BLACK SHALE	1.9	684.9	
-277.1	SHELburn	BRERETON	LIMESTONE	1.8	686.8	ARGILLACEOUS
-278.9	CARBONDALE	ANNA	BLACK SHALE	0.7	688.6	
-279.6	CARBONDALE	HERRIN	COAL	3.5	689.3	
-283.1	CARBONDALE		SHALE/UNDERCLAY	3.1	692.8	
-286.2	CARBONDALE		LIMESTONE	0.3	695.9	
-286.5	CARBONDALE		GRAY SANDSTONE	2.5	696.2	
-289.0	CARBONDALE			2.4	698.7	
-291.4	CARBONDALE		GRAY SANDSTONE	6.9	701.1	
-298.3	CARBONDALE		DARK SHALE	74.0	708.0	
-372.3	CARBONDALE		SANDY SHALE	16.0	782.0	
-388.3	CARBONDALE		SILTSTONE	17.5	798.0	
-405.8	CARBONDALE		SILTY SHALE	0.4	815.5	
-406.2	CARBONDALE	SPRINGFIELD	COAL	7.2	815.9	UPPER
-413.4	CARBONDALE		GRAY SHALE	0.7	823.1	
-414.1	CARBONDALE	SPRINGFIELD	COAL	1.5	823.8	LOWER
-415.6	CARBONDALE		GRAY SHALE	6.0	825.3	
-421.6	CARBONDALE		SILTY SHALE	6.0	831.3	
-427.6	CARBONDALE		UNKNOWN	0.7	837.3	CORE LOSS
-428.3	CARBONDALE			50.0	838.0	
-478.3	CARBONDALE		SANDY LIMESTONE	2.0	888.0	
-480.3	CARBONDALE		GRAY SHALE	1.0	890.0	
-481.3	CARBONDALE			3.0	891.0	
-484.3	CARBONDALE		UNDERCLAY	1.0	894.0	
-485.3	CARBONDALE		SANDY SHALE	25.0	895.0	

MAPID: 18590110000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 3 QUARTERS/FOOTAGES: 1066' S line, 215' W line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853741 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.366347 DATE COLLECTED: 6 / 22 / 1982

SURFACE ELEVATION (FT.): 405.3 LOGGED (FT.): 850.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-296 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
405.3	PLEISTOCENE		CLAY	7.0	0.0	
398.3	PLEISTOCENE		SAND	9.0	7.0	
389.3	PLEISTOCENE		UNCONSOLIDATED	8.0	16.0	
381.3	PLEISTOCENE		CLAY	15.0	24.0	
366.3	PLEISTOCENE		UNKNOWN	2.0	39.0	DRILLER REPORTS COAL
364.3	PLEISTOCENE		CLAY	14.0	41.0	
350.3	PLEISTOCENE		SAND	18.0	55.0	
332.3			LIMESTONE	6.0	73.0	WHITE
326.3			SANDSTONE	16.0	79.0	
310.3			SANDY SHALE	29.0	95.0	
281.3	BOND		SANDSTONE	9.0	124.0	
272.3	BOND		SANDY SHALE	25.0	133.0	
247.3	BOND		DARK SHALE	7.0	158.0	
240.3	BOND		BLACK SHALE	4.0	165.0	
236.3	BOND		BROWN LIMESTONE	3.0	169.0	
233.3	BOND	FLANNIGAN	COAL	1.5	172.0	
231.8	BOND		SANDY SHALE	17.5	173.5	
214.3	BOND			2.0	191.0	
212.3	BOND		SANDY SHALE	8.0	193.0	
204.3	BOND			14.0	201.0	
190.3	BOND		SANDY SHALE	18.5	215.0	
171.8	BOND	CARTHAGE	LIMESTONE	15.5	233.5	
156.3	BOND			30.0	249.0	
126.3	PATOKA		LIMESTONE	12.0	279.0	
114.3	PATOKA			30.0	291.0	CARTH
84.3	PATOKA		LIMESTONE	4.5	321.0	
79.8	PATOKA		SANDY SHALE	41.5	325.5	
38.3	PATOKA		LIMESTONE	1.0	367.0	
37.3	PATOKA		COAL	3.0	368.0	
34.3	PATOKA		GRAY SHALE	85.0	371.0	
-50.7	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	456.0	
-59.7	SHELBURN	WEST FRANKLIN	GRAY SHALE	1.0	465.0	
-60.7	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	4.0	466.0	
-64.7	SHELBURN		GRAY SHALE	68.0	470.0	
-132.7	SHELBURN		GRAY SANDSTONE	7.0	538.0	
-139.7	SHELBURN		GRAY SHALE	123.0	545.0	
-262.7	SHELBURN		LIMESTONE	5.0	668.0	
-267.7	SHELBURN		GRAY SHALE	15.0	673.0	
-282.7	SHELBURN		BROWN LIMESTONE	2.0	688.0	

-284.7	CARBONDALE	HERRIN	COAL	3.0	690.0
-287.7	CARBONDALE		GRAY SHALE	4.0	693.0
-291.7	CARBONDALE		LIMESTONE	2.0	697.0
-293.7	CARBONDALE		SANDY SHALE	5.0	699.0
-298.7	CARBONDALE		LIMESTONE	5.0	704.0
-303.7	CARBONDALE		SANDY SHALE	101.0	709.0
-404.7	CARBONDALE		SILTSTONE	13.5	810.0
-418.2	CARBONDALE		SILTY SHALE	1.6	823.5
-419.8	CARBONDALE	SPRINGFIELD	COAL	9.4	825.1
-429.2	CARBONDALE		SHALE	2.0	834.5
-431.2	CARBONDALE		SILTSTONE	5.3	836.5
-436.5	CARBONDALE		SILTY SANDSTONE	8.2	841.8

MAPID: 18501440000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 1010' W line of SE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.8601 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.370281 **DATE COLLECTED:** 11 / 7 / 1947
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 2725.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
294.0	BOND	WITT	COAL	1.5	116.0
240.0	BOND	REEL	LIMESTONE	2.5	170.0
190.0	BOND	MT. CARMEL	SANDSTONE	150.0	220.0
-44.0	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	454.0
-251.0	SHELBURN	DANVILLE	COAL	3.8	661.0
-282.0	CARBONDALE	HERRIN	COAL	4.0	692.0
-349.0	CARBONDALE	BRIAR HILL	COAL	1.0	759.0
-384.0	CARBONDALE	SPRINGFIELD	COAL	5.5	794.0
-490.0	CARBONDALE	HOUCHIN CREEK	COAL	-	900.0
-580.0	CARBONDALE	COLCHESTER	COAL	-	990.0
-594.0	CARBONDALE	DEKOVEN	COAL	1.0	1004.0
-613.0	CARBONDALE	DAVIS	COAL	4.7	1023.0
-639.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1049.0

MAPID: 18502759000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: KEENSBURG LONGITUDE: -87.85567 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.364361 DATE COLLECTED:

SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 2583.0 LOG TYPE: Electric Log

SOURCE: F B DRLG CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-301.0	CARBONDALE	HERRIN	COAL	-	703.0
-360.0	CARBONDALE	BRIAR HILL	COAL	-	762.0
-440.0	CARBONDALE	SPRINGFIELD	COAL	8.0	842.0
-526.0	CARBONDALE	HOUCHIN CREEK	COAL	-	928.0

MAPID: 18527484000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 4 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.870496 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.377064 DATE COLLECTED: 8 / 25 / 1983

SURFACE ELEVATION (FT.): 405.0 LOGGED (FT.): 296.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
405.0			CLAY	20.0	0.0
385.0			SAND	15.0	20.0
370.0			GRAY SHALE	15.0	35.0
355.0			COAL	7.0	50.0
348.0			LIMESTONE	1.0	57.0
347.0			GRAY SHALE	7.0	58.0
340.0			SANDSTONE	57.0	65.0
283.0	BOND	WITT	COAL	3.0	122.0
280.0	BOND		GRAY SHALE	15.0	125.0
265.0	BOND		SANDSTONE	15.0	140.0
250.0	BOND		DARK SHALE	31.0	155.0
219.0	BOND	FLANNIGAN	COAL	2.0	186.0
217.0	BOND		LIMESTONE	2.0	188.0
215.0	BOND		SANDY SHALE	59.0	190.0
156.0	BOND	MT. CARMEL	SANDSTONE	47.0	249.0

MAPID: 18590111000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 4 QUARTERS/FOOTAGES: 978' N line, 1917' E line of SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.861161 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.368096 DATE COLLECTED: 8 / 7 / 1984

SURFACE ELEVATION (FT.): 403.5 LOGGED (FT.): 880.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-317 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
403.5	PLEISTOCENE		SANDY CLAY	10.0	0.0
393.5	PLEISTOCENE		UNCONSOLIDATED	50.0	10.0
343.5	PLEISTOCENE		SAND & GRAVEL	12.0	60.0
331.5	PLEISTOCENE		CLAY	1.0	72.0
330.5	BOND		GRAY SANDSTONE	39.0	73.0
291.5	BOND		DARK SHALE	10.0	112.0
281.5	BOND		BLACK SHALE	0.5	122.0
281.0	BOND	WITT	COAL	1.5	122.5
279.5	BOND		UNDERCLAY	3.0	124.0
276.5	BOND		SHALE	4.5	127.0
272.0	BOND		SANDY SHALE	18.5	131.5
253.5	BOND		DARK SHALE	17.5	150.0
236.0	BOND		BROWN LIMESTONE	2.0	167.5
234.0	BOND	FLANNIGAN	COAL	2.0	169.5
232.0	BOND		SANDY SHALE	42.5	171.5
189.5	BOND		GRAY SHALE	6.0	214.0
183.5	BOND	MT. CARMEL	GRAY SANDSTONE	95.0	220.0
88.5			GRAY SHALE	45.0	315.0
43.5			SANDY SHALE	35.0	360.0
8.5			GRAY SHALE	32.0	395.0
-23.5			SANDY SHALE	8.0	427.0
-31.5			DARK SHALE	15.5	435.0
-47.0			BLACK SHALE	2.5	450.5
-49.5			GRAY SHALE	6.0	453.0
-55.5	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	7.0	459.0
-62.5	SHELBURN		GRAY SHALE	6.0	466.0
-68.5	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	3.0	472.0
-71.5	SHELBURN		SHALY SANDSTONE	12.0	475.0
-83.5	SHELBURN		SANDY SHALE	15.0	487.0
-98.5	SHELBURN		GRAY SHALE	28.0	502.0
-126.5	SHELBURN		SANDY SHALE	8.0	530.0
-134.5	SHELBURN		GRAY SHALE	9.0	538.0
-143.5	SHELBURN		SANDY SHALE	93.0	547.0
-236.5	SHELBURN		GRAY SHALE	30.5	640.0
-267.0	SHELBURN	DANVILLE	COAL	3.5	670.5
-270.5	SHELBURN		UNDERCLAY	2.0	674.0
-272.5	SHELBURN		GRAY SHALE	5.0	676.0
-277.5	SHELBURN		BROWN LIMESTONE	6.5	681.0
-284.0	SHELBURN		SANDY SHALE	7.5	687.5

-291.5	SHELBURN	BRERETON	BROWN LIMESTONE	5.0	695.0
-296.5	CARBONDALE	ANNA	BLACK SHALE	1.0	700.0
-297.5	CARBONDALE	HERRIN	COAL	2.5	701.0
-300.0	CARBONDALE		UNDERCLAY	1.5	703.5
-301.5	CARBONDALE		GRAY SANDSTONE	15.0	705.0
-316.5	CARBONDALE		SANDY SHALE	43.0	720.0
-359.5	CARBONDALE	BRIAR HILL	COAL	2.0	763.0
-361.5	CARBONDALE		GRAY SHALE	6.0	765.0
-367.5	CARBONDALE		BLACK SHALE	2.0	771.0
-369.5	CARBONDALE		SANDY SHALE	58.4	773.0
-427.9	CARBONDALE		GRAY SHALE	1.0	831.4
-428.9	CARBONDALE		BLACK SHALE	0.2	832.4
-429.1	CARBONDALE	SPRINGFIELD	COAL	6.7	832.6
-435.8	CARBONDALE		CARBONACEOUS SHALE	0.2	839.3
-436.0	CARBONDALE		BLACK SHALE	0.2	839.5
-436.2	CARBONDALE		CARBONACEOUS SHALE	6.6	839.7
-442.8	CARBONDALE		UNDERCLAY	0.7	846.3
-443.5	CARBONDALE		SANDY SHALE	13.0	847.0
-456.5	CARBONDALE		SANDY SHALE	9.0	860.0
-465.5	CARBONDALE		GRAY SANDSTONE	11.0	869.0

MAPID: 18501554000C **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.886326 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.372079 **DATE COLLECTED:** 12 / 8 / 1948
SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 2593.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
249.0	BOND	WITT	COAL	1.5	176.0
201.0	BOND	REEL	LIMESTONE	2.0	224.0
121.0	BOND	MT. CARMEL	SANDSTONE	17.0	304.0
16.0	PATOKA	MACOUPIN	LIMESTONE	1.0	409.0
-77.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.5	502.0
-288.0	SHELBURN	DANVILLE	COAL	3.0	713.0
-308.0	CARBONDALE	HERRIN	COAL	3.8	733.0
-371.0	CARBONDALE	BRIAR HILL	COAL	1.0	796.0
-428.0	CARBONDALE	SPRINGFIELD	COAL	4.0	853.0
-555.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	980.0
-624.0	CARBONDALE	COLCHESTER	COAL	-	1049.0
-635.0	CARBONDALE	DEKOVEN	COAL	1.8	1060.0
-663.0	CARBONDALE	DAVIS	COAL	4.7	1088.0
-691.0	TRADEWATER	CARRIER MILLS	BLACK SHALE	-	1116.0

CHENOWETH SAYS #6:
3.5@744

MAPID: 18501674000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 5 QUARTERS/FOOTAGES: 2310' S line, 990' E line of NW
QUADRANGLE: BONE GAP LONGITUDE: -87.886494 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.37754 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 2646.0 LOG TYPE: Electric Log
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-320.0	CARBONDALE	HERRIN	COAL	4.0	798.0
-362.0	CARBONDALE	BRIAR HILL	COAL	-	840.0
-419.0	CARBONDALE	SPRINGFIELD	COAL	10.0	897.0
-548.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1026.0

MAPID: 18504534000C VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 5 QUARTERS/FOOTAGES: 2589' S line, 623' E line of NE
QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.874975 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.378466 DATE COLLECTED: 11 / 7 / 1952
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2575.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
267.0	BOND	WITT	COAL	1.0	158.0
216.0	BOND	REEL	LIMESTONE	1.0	209.0
185.0	BOND	MT. CARMEL	SANDSTONE	75.0	240.0
26.0	PATOKA	MACOUPIN	LIMESTONE	2.0	399.0
-69.0	SHELBURN	WEST FRANKLIN	LIMESTONE	12.0	494.0
-272.0	SHELBURN	DANVILLE	COAL	3.0	697.0
-302.0	CARBONDALE	HERRIN	COAL	3.0	727.0
-363.0	CARBONDALE	BRIAR HILL	COAL	0.8	788.0
-411.0	CARBONDALE	SPRINGFIELD	COAL	4.5	836.0
-547.0	CARBONDALE	HOUCHIN CREEK	COAL	2.8	972.0
-617.0	CARBONDALE	COLCHESTER	COAL	-	1042.0
-628.0	CARBONDALE	DEKOVEN	COAL	2.5	1053.0
-649.0	CARBONDALE	DAVIS	COAL	5.0	1074.0
-678.0	TRADEWATER	CARRIER MILLS	SHALE	-	1103.0

MAPID: 18504548000C

VERSION: 1

PROJECT: MTCARMEL

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 5

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.876336

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.36654

DATE COLLECTED: 9 / 14 / 1950

SURFACE ELEVATION (FT.): 405.0

LOGGED (FT.): 0.0

LOG TYPE: Electric Log

SOURCE: O.O. BUMP & NAT'L DRLG. CO.

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
275.0	BOND	WITT	COAL	2.0	130.0
235.0	BOND	REEL	LIMESTONE	1.0	170.0
187.0	BOND	MT. CARMEL	SANDSTONE	57.0	218.0
35.0	PATOKA	MACOUPIN	LIMESTONE	1.0	370.0
-56.0	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	461.0
-266.0	SHELBURN	DANVILLE	COAL	3.0	671.0
-297.0	CARBONDALE	HERRIN	COAL	3.0	702.0
-359.0	CARBONDALE	BRIAR HILL	COAL	0.8	764.0
-380.0	CARBONDALE	SPRINGFIELD	COAL	4.3	785.0
-527.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	932.0
-594.0	CARBONDALE	COLCHESTER	COAL	-	999.0
-605.0	CARBONDALE	DEKOVEN	COAL	-	1010.0
-632.0	CARBONDALE	DAVIS	COAL	5.0	1037.0
-659.0	TRADEWATER	CARRIER MILLS	SHALE	-	1064.0

MAPID: 18501530000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 350' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.905332 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.363294 DATE COLLECTED: 5 / 0 / 1947

SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 54.5 LOG TYPE: Drillers Log

SOURCE: MIDWEST RADIANT 4W WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
423.0			CLAY	14.9	0.0	
408.1			BOULDER	0.5	14.9	
407.6			CLAY	1.8	15.4	
405.7			LIMESTONE	0.7	17.3	
405.1			UNKNOWN	0.2	17.9	
404.9			BLACK SHALE	3.3	18.1	BK SH W/ COAL SHOWING
401.7			UNDERCLAY	1.0	21.3	
400.7			DARK SHALE	3.7	22.3	
397.0			LIMESTONE	0.5	26.0	
396.5			DARK SHALE	3.0	26.5	
393.5			GRAY SHALE	5.3	29.5	
388.2	MATTOON	FRIENDSVILLE	COAL	0.3	34.8	THICKNESS IS PROBABLY NOT ACCURATE
387.8			SHALE	0.7	35.2	
387.2			UNDERCLAY	2.0	35.8	
385.2			SANDY SHALE	9.2	37.8	
376.0			SANDSTONE	7.5	47.0	

MAPID: 18501531000C VERSION: 1 PROJECT: NCRDS87
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: SE SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.894506 GEOLOGIST: WEIBEL
CONFIDENTIAL: N LATITUDE: 38.36516 DATE COLLECTED: 4 / 0 / 1947
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 74.5 LOG TYPE: Drillers Log
SOURCE: MIDWEST RADIANT WELL TYPE: Coal Test
COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
415.0			UNCONSOLIDATED	21.0	0.0
394.0	MATTOON		SHALE	3.5	21.0
390.5	MATTOON		SANDSTONE	7.0	24.5
383.5	MATTOON		SHALE	5.3	31.5
378.2	MATTOON		LIMESTONE	2.3	36.8
375.8	MATTOON		UNCLASSIFIED	0.2	39.2
375.7	MATTOON	FRIENDSVILLE	COAL	2.7	39.3
373.0	MATTOON		SHALE	2.0	42.0
371.0	MATTOON		UNDERCLAY	0.7	44.0
370.3	MATTOON		SANDSTONE	4.5	44.7
365.8	MATTOON		UNCLASSIFIED	6.3	49.2
359.5	MATTOON		SHALE	8.5	55.5
351.0	MATTOON		SHALE & SANDSTONE	8.5	64.0
342.5	MATTOON		SANDSTONE	2.0	72.5

MAPID: 18502762000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: 1906' S line, 341' E line of NE
QUADRANGLE: BONE GAP LONGITUDE: -87.894265 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.376364 DATE COLLECTED:
SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 2660.0 LOG TYPE: Electric Log
SOURCE: ATHA, H. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-305.0	CARBONDALE	HERRIN	COAL	3.0	770.0
-359.0	CARBONDALE	BRIAR HILL	COAL	-	824.0
-539.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1004.0

MAPID: 18504652001M **VERSION:** 1 **PROJECT:** MTCARMEL
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 6 **QUARTERS/FOOTAGES:** SE SW SW SW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.914815 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.363886 **DATE COLLECTED:** 10 / 0 / 1942
SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 46.5 **LOG TYPE:**
SOURCE: **WELL TYPE:** Mine Shaft
COMMENT: EPPLER MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.0	MATTOON	FRIENDSVILLE	COAL	3.5	43.0	

MAPID: 18505317000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 6 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.909093 **GEOLOGIST:** HOKE
CONFIDENTIAL: N **LATITUDE:** 38.364318 **DATE COLLECTED:** 6 / 10 / 1957
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO 8FR **WELL TYPE:** Coal Test
COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
417.0			UNCONSOLIDATED	20.0	0.0	
397.0			LIMESTONE	1.7	20.0	GRAY
395.3			CALCAREOUS SHALE	0.3	21.7	
395.0			COAL	3.4	22.0	WITH PYRITE
391.6			SANDY SHALE	1.8	25.4	
389.7			LIMESTONE	1.2	27.3	GRAY
388.6			SHALEY CLAYSTONE	0.4	28.4	GRAY
388.2			SHALEY CLAYSTONE	0.2	28.8	WITH THIN COAL STREAKS; GRAY
388.0			SHALEY CLAYSTONE	4.5	29.0	GRAY
383.5			COAL	0.3	33.5	
383.2			BLACK SHALE	0.3	33.8	
382.8			CLAYSTONE	0.3	34.2	GRAY
382.6			SHALY SANDSTONE	0.3	34.4	
382.3			SHALEY CLAYSTONE	5.3	34.7	GRAY

MAPID: 185238B0001F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: NW NE NW NW

QUADRANGLE: BONE GAP LONGITUDE: -87.913514 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.378622 DATE COLLECTED: 10 / 0 / 1942

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 46.5 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: LIPPER MINE FROM FIELD NOTES BY SCHOPF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.0	MATTOON	FRIENDSVILLE	COAL	3.5	43.0	

MAPID: 185238C0001F VERSION: 1 PROJECT: MTCARMEL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: SW SE SW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.913174 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.363869 DATE COLLECTED: 10 / 0 / 1942

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 38.5 LOG TYPE:

SOURCE: WELL TYPE: Mine Shaft

COMMENT: EPPLER MINE FROM FIELD NOTES BY SCHOPF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
397.0	MATTOON	FRIENDSVILLE	COAL	3.5	35.0	

MAPID: 18525989000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: 198' S line, 475' W line of NE NW

QUADRANGLE: BONE GAP LONGITUDE: -87.909503 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.375703 DATE COLLECTED:

SURFACE ELEVATION (FT.): 434.8 LOGGED (FT.): 1065.6 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. BB-26 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.8			NO RECORD	727.0	0.0	
-292.2			LIMESTONE	1.8	727.0	
-294.0			SHALE	0.2	728.8	MED GRAY
-294.1			SANDSTONE	4.1	728.9	LT GRAY
-298.2			LIMESTONE	0.1	733.0	MED GRAY
-298.3			CLAYSTONE	0.2	733.1	DK GRAY
-298.5			SHALE	1.7	733.3	PART OF CORE MISSING; DK GRAY
-304.2			CLAYSTONE	2.1	739.0	LT BROWN
-306.3			CLAYSTONE	0.9	741.1	PART OF CORE MISSING; MED GRAY
-411.2			SHALE	6.0	846.0	
-417.2			SHALE	6.0	852.0	
-423.2			SHALE	2.0	858.0	MED GRAY
-425.2			SHALE	1.1	860.0	PART OF CORE MISSING
-435.2	CARBONDALE	SPRINGFIELD	COAL	0.2	870.0	
-435.4			CLAYSTONE	0.6	870.2	GRY BLK
-436.0			CLAYSTONE	36.0	870.8	DK GRAY
-436.6			CLAYSTONE	2.5	871.4	PART OF CORE MISSING; MED GRAY
-614.2	SPOON	SEELYVILLE	COAL	0.4	1049.0	
-614.6			CLAYSTONE	0.9	1049.4	MED GRAY
-615.4			CLAYSTONE	0.8	1050.2	GAP IN CORE; MED GRAY
-622.2			CLAYSTONE	0.8	1057.0	DK GRAY
-623.0			CLAYSTONE	3.1	1057.8	GAP IN CORE; MED GRAY
-626.2			CLAYSTONE	2.7	1061.0	MED GRAY
-628.9			LIMESTONE	0.5	1063.7	LT GRAY
-629.4			CLAYSTONE	1.4	1064.2	MED GRAY

MAPID: 18527485000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 6 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: BONE GAP LONGITUDE: -87.902204

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.377093

DATE COLLECTED: 11 / 4 / 1981

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			CLAY	18.0	0.0	
412.0	MATTOON		GRAY SHALE	22.0	18.0	
390.0	MATTOON		COAL	1.0	40.0	THICKNESS IS PROBABLY NOT ACCURATE
389.0	MATTOON		LIMESTONE	1.0	41.0	
388.0	MATTOON		GRAY SHALE	23.0	42.0	
365.0	MATTOON		SANDSTONE	20.0	65.0	
345.0	MATTOON		GRAY SHALE	10.0	85.0	
335.0	MATTOON	FRIENDSVILLE	COAL	2.0	95.0	THICKNESS IS PROBABLY NOT ACCURATE
333.0	BOND		LIMESTONE	1.0	97.0	
332.0	BOND		DARK SHALE	12.0	98.0	
320.0	BOND		GRAY SHALE	30.0	110.0	
290.0	BOND		COAL	7.0	140.0	THICKNESS IS PROBABLY NOT ACCURATE
283.0	BOND		LIMESTONE	3.0	147.0	
280.0	BOND		DARK SHALE	35.0	150.0	
245.0	BOND		SANDSTONE	25.0	185.0	
220.0	BOND		GRAY SHALE	5.0	210.0	
215.0	BOND	WITT	COAL	5.0	215.0	THICKNESS IS PROBABLY NOT ACCURATE
210.0	BOND		LIMESTONE	5.0	220.0	
205.0	BOND		GRAY SHALE	15.0	225.0	
190.0	BOND		SANDY SHALE	27.0	240.0	
163.0	BOND	FLANNIGAN	COAL	1.0	267.0	THICKNESS IS PROBABLY NOT ACCURATE
162.0	BOND		LIMESTONE	2.0	268.0	
160.0	BOND		DARK SHALE	30.0	270.0	
130.0	BOND		SANDY SHALE	15.0	300.0	
115.0	BOND	MT. CARMEL	SANDSTONE	30.0	315.0	

MAPID: 18502763000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.905228 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.356923 DATE COLLECTED:
SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 2603.0 LOG TYPE: Electric Log
SOURCE: ATHA, H. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-278.0	CARBONDALE	HERRIN	COAL	-	689.0
-329.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-404.0	CARBONDALE	SPRINGFIELD	COAL	5.0	815.0
-491.0	CARBONDALE	HOUCHIN CREEK	COAL	-	902.0

MAPID: 18504653001M VERSION: 1 PROJECT: MTCARMEL
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 7 QUARTERS/FOOTAGES: NE NW NW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.914805 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.362939 DATE COLLECTED: 10 / 14 / 1942
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 46.5 LOG TYPE:
SOURCE: WELL TYPE: Mine Shaft
COMMENT: LIPPER MINE FROM ISGS MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
387.0	MATTOON	FRIENDSVILLE	COAL	3.5	43.0

MAPID: 18502723000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 8 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.880781 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.35331 DATE COLLECTED:
SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2615.0 LOG TYPE: Electric Log
SOURCE: MURVIN, JOHN B. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-275.0	CARBONDALE	HERRIN	COAL	3.0	698.0
-333.0	CARBONDALE	BRIAR HILL	COAL	-	756.0
-424.0	CARBONDALE	SPRINGFIELD	COAL	5.0	847.0
-493.0	CARBONDALE	HOUCHIN CREEK	COAL	-	916.0

MAPID: 18505338000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 8 QUARTERS/FOOTAGES: NW NW SW SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.881384 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.35193 DATE COLLECTED: 7 / 17 / 1957

SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO 49FR WELL TYPE: Coal Test

COMMENT: SEE COAL MAP SECTION #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
419.0			UNCONSOLIDATED	100.0	0.0

MAPID: 18500052000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.858028 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.355117 DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 2425.0 LOG TYPE:

SOURCE: SMOKEY OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-45.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	470.0
-277.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	702.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2000.0		BASE BARLOW	LIMESTONE	-	2425.0

MAPID: 18500057000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 365' S line, 3000' E line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.865169 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.349691 DATE COLLECTED: 1 / 0 / 1931
 SURFACE ELEVATION (FT.): 434.8 LOGGED (FT.): 276.0 LOG TYPE: Drillers Log
 SOURCE: POTTS & SON WELL TYPE: Coal Test
 COMMENT: NO COMPANY NUMBER GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.8			UNCONSOLIDATED	2.0	0.0	DARK SOIL
432.8			CLAY	6.0	2.0	
426.8			SAND	4.0	8.0	
422.8			MUD	35.0	12.0	
387.8			GRAVEL	3.0	47.0	
384.8			MUD	8.0	50.0	
376.8			GRAVEL	5.0	58.0	
371.8			LIMESTONE	1.0	63.0	
370.8			DARK SHALE	71.0	64.0	
299.8	BOND	WITT	BLACK SHALE	6.0	135.0	
293.8	BOND		LIMESTONE	2.0	141.0	
291.8	BOND		CALCAREOUS SHALE	7.0	143.0	
284.8	BOND		LIMESTONE	10.0	150.0	
274.8	BOND		DARK SHALE	21.0	160.0	
253.8	BOND	REEL	LIMESTONE	1.0	181.0	
252.8	BOND	FLANNIGAN	COAL	2.0	182.0	THICKNESS IS PROBABLY NOT ACCURATE
250.8	BOND		GRAY SHALE	29.0	184.0	
221.8	BOND		SANDSTONE	7.0	213.0	
214.8	BOND		SANDSTONE	25.0	220.0	BROKEN SS
189.8	BOND		SANDSTONE	29.0	245.0	
160.8	BOND		LIMESTONE	2.0	274.0	

MAPID: 18501009000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE
 QUADRANGLE: KEENSBURG LONGITUDE: -87.858061 GEOLOGIST: BRISTOL
 CONFIDENTIAL: N LATITUDE: 38.35139 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 2730.0 LOG TYPE:
 SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-42.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	466.0	
-266.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-2030.0		BASE BARLOW	LIMESTONE	-	2454.0	
-2306.0	RENAULT	BASE RENAULT	LIMESTONE	-	2730.0	

MAPID: 18501010000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 374' S line, 141' E line of SW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.859663 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.357084 DATE COLLECTED:
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 690.0 LOG TYPE:
SOURCE: LAMBERT BURR WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-40.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	460.0
-270.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18501011000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 930' W line of NW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.860526 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.35325 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2686.0 LOG TYPE:
SOURCE: SKILES, C. & LEACH BROS. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-38.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	464.0
-264.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1977.0		BASE BARLOW	LIMESTONE	-	2403.0
-2260.0	RENAULT	BASE RENAULT	LIMESTONE	-	2686.0

MAPID: 18501360000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.862629 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.35328 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2682.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	458.0
-244.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1979.0		BASE BARLOW	LIMESTONE	-	2405.0
-2256.0	RENAULT	BASE RENAULT	LIMESTONE	-	2682.0

MAPID: 18501360000C

VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 9

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.862629

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.35328

DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0

LOGGED (FT.): 2776.0

LOG TYPE: Electric Log

SOURCE: SKILES, C. E., INC.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-244.0	CARBONDALE	HERRIN	COAL	2.0	670.0	
-300.0	CARBONDALE	BRIAR HILL	COAL	-	726.0	
-388.0	CARBONDALE	SPRINGFIELD	COAL	9.0	814.0	
-464.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0	

MAPID: 18501360000C VERSION: 3

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.862629

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.35328

DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2776.0

LOG TYPE: Drillers Log

SOURCE: C. E. SKILES B1

WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1092'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.0			UNCONSOLIDATED	15.0	0.0	
411.0	BOND		SANDSTONE	15.0	15.0	
396.0	BOND		SANDY SHALE	96.0	30.0	
300.0	BOND		SHALE	124.0	126.0	
176.0	BOND		SANDY SHALE	16.0	250.0	
160.0	BOND	CARTHAGE	LIMESTONE	5.0	266.0	
155.0	PATOKA		COAL	2.0	271.0	THICKNESS IS PROBABLY NOT ACCURATE
153.0	PATOKA		SANDY SHALE	174.0	273.0	
-21.0	SHELBURN	WEST FRANKLIN	LIMESTONE	12.0	447.0	
-33.0	SHELBURN		SANDY SHALE	75.0	459.0	
-108.0	SHELBURN		SHALE	66.0	534.0	
-174.0	SHELBURN		SANDY SHALE	50.0	600.0	
-224.0	SHELBURN		LIMESTONE	5.0	650.0	
-229.0	SHELBURN		SHALE	15.0	655.0	
-244.0	CARBONDALE	HERRIN	COAL	2.0	670.0	THICKNESS IS PROBABLY NOT ACCURATE
-246.0	CARBONDALE		CALCAREOUS SHALE	31.0	672.0	
-277.0	CARBONDALE		SANDY SHALE	73.0	703.0	
-350.0	CARBONDALE		SANDY SHALE	44.0	776.0	
-394.0	CARBONDALE		SHALE	30.0	820.0	
-424.0	CARBONDALE		SANDY SHALE	55.0	850.0	
-479.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	905.0	THICKNESS IS PROBABLY NOT ACCURATE
-482.0	CARBONDALE		SANDSTONE	23.0	908.0	
-505.0	CARBONDALE		SANDY SHALE	46.0	931.0	
-551.0	CARBONDALE		SANDSTONE	11.0	977.0	
-562.0	CARBONDALE		SHALE	25.0	988.0	
-587.0	CARBONDALE	DAVIS	COAL	4.0	1013.0	THICKNESS IS PROBABLY NOT ACCURATE
-591.0	TRADEWATER		SHALE	3.0	1017.0	
-594.0	TRADEWATER		SANDY SHALE	4.0	1020.0	
-598.0	TRADEWATER		LIMESTONE	66.0	1024.0	
-664.0	TRADEWATER		COAL	2.0	1090.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18502494000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 2310' S line, 380' W line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.862369 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.362471 DATE COLLECTED:
SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 2648.0 LOG TYPE:
SOURCE: KING W J WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-44.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	456.0
-278.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1970.0		BASE BARLOW	LIMESTONE	-	2382.0
-2236.0	RENAULT	BASE RENAULT	LIMESTONE	-	2648.0

MAPID: 18502986000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.860342 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.355153 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2411.0 LOG TYPE:
SOURCE: PARTYKA CHESTER P WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1980.0		BASE BARLOW	LIMESTONE	-	2411.0

MAPID: 18504681000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 380' W line of SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.862486 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.349553 DATE COLLECTED:
SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 2423.0 LOG TYPE:
SOURCE: LYNCH OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-25.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	461.0
-257.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	693.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1987.0		BASE BARLOW	LIMESTONE	-	2423.0

MAPID: 18505071000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.862643 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.351417 DATE COLLECTED:
SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2411.0 LOG TYPE:
SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-24.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	462.0
-239.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	677.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1973.0		BASE BARLOW	LIMESTONE	-	2411.0

MAPID: 18505077000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 1370' S line, 1050' W line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.860045 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.359843 DATE COLLECTED:
SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 2384.0 LOG TYPE:
SOURCE: GEORGE, T. W. TRUST WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-41.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	458.0
-277.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	694.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1967.0		BASE BARLOW	LIMESTONE	-	2384.0

MAPID: 18505081000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 610' S line, 1270' E line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.859027 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.357727 DATE COLLECTED:
SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 2391.0 LOG TYPE:
SOURCE: GEORGE, T. W. TRUST WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-45.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	465.0
-276.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	696.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1971.0		BASE BARLOW	LIMESTONE	-	2391.0

MAPID: 18590112000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 641' N line, 1043' E line of NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.858244 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.354273 DATE COLLECTED: 6 / 19 / 1982

SURFACE ELEVATION (FT.): 419.4 LOGGED (FT.): 865.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-295 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
419.4	PLEISTOCENE		CLAY	7.0	0.0
412.4	PLEISTOCENE		SILTY CLAY	5.0	7.0
407.4	PLEISTOCENE		SAND	5.0	12.0
402.4	PLEISTOCENE		UNCONSOLIDATED	23.0	17.0
379.4	PLEISTOCENE		CLAY	23.0	40.0
356.4	MATTOON		COAL	1.0	63.0
355.4	MATTOON		DARK SHALE	8.0	64.0
347.4	MATTOON		LIMESTONE	1.0	72.0
346.4	MATTOON		GRAY SHALE	3.0	73.0
343.4	MATTOON		COAL	1.0	76.0
342.4	BOND		GRAY SHALE	13.0	77.0
329.4	BOND		DARK SHALE	7.0	90.0
322.4	BOND		GRAY SANDSTONE	18.0	97.0
304.4	BOND		LIMESTONE	2.0	115.0
302.4	BOND		GRAY SANDSTONE	23.0	117.0
279.4	BOND		DARK SHALE	7.0	140.0
272.4	BOND	WITT	COAL	1.0	147.0
271.4	BOND		GRAY SHALE	9.0	148.0
262.4	BOND		SANDY SHALE	23.0	157.0
239.4	BOND		GRAY SHALE	13.0	180.0
226.4	BOND		LIMESTONE	3.0	193.0
223.4	BOND		GRAY SHALE	64.0	196.0
159.4	BOND	MT. CARMEL	GRAY SANDSTONE	22.0	260.0
137.4	BOND		BROWN LIMESTONE	12.0	282.0
125.4			BLACK SHALE	2.0	294.0
123.4			LIMESTONE	2.0	296.0
121.4			SANDY SHALE	29.0	298.0
92.4			GRAY SANDSTONE	1.0	327.0
91.4			GRAY SHALE	70.0	328.0
21.4			DARK SHALE	10.0	398.0
11.4			BROWN LIMESTONE	3.0	408.0
8.4			SANDY SHALE	9.0	411.0
-0.6			GRAY SANDSTONE	47.0	420.0
-47.6	SHELBURN		BROWN LIMESTONE	8.0	467.0
-55.6	SHELBURN		GRAY SHALE	2.0	475.0
-57.6	SHELBURN		GRAY SANDSTONE	23.0	477.0
-80.6	SHELBURN		GRAY SHALE	85.0	500.0
-165.6	SHELBURN		BROWN LIMESTONE	2.0	585.0
-167.6	SHELBURN		SANDY SHALE	48.0	587.0

-215.6	SHELburn		GRAY SHALE	28.0	635.0
-243.6	SHELburn	DANVILLE	COAL	3.0	663.0
-246.6	SHELburn		GRAY SHALE	2.0	666.0
-248.6	SHELburn		BROWN LIMESTONE	5.0	668.0
-253.6	SHELburn		GRAY SANDSTONE	16.0	673.0
-269.6	SHELburn		GRAY SHALE	6.0	689.0
-275.6	CARBONDALE	HERRIN	COAL	3.0	695.0
-278.6	CARBONDALE		GRAY SHALE	7.0	698.0
-285.6	CARBONDALE		GRAY SANDSTONE	5.0	705.0
-290.6	CARBONDALE		GRAY SHALE	50.0	710.0
-340.6	CARBONDALE		SANDY SHALE	25.0	760.0
-365.6	CARBONDALE		LIMESTONE	1.0	785.0
-366.6	CARBONDALE		SANDY SHALE	24.0	786.0
-390.6	CARBONDALE		SILTSTONE	15.0	810.0
-405.6	CARBONDALE		SILTY SHALE	11.8	825.0
-417.4	CARBONDALE	SPRINGFIELD	COAL	7.7	836.8
-425.1	CARBONDALE		GRAY SHALE	3.1	844.5
-428.2	CARBONDALE		SANDSTONE	1.3	847.6
-429.5	CARBONDALE		SILTSTONE	16.1	848.9

MAPID: 18590113000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 352' N line, 73' E line of NE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.863955 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.362604 DATE COLLECTED: 6 / 28 / 1982

SURFACE ELEVATION (FT.): 402.2 LOGGED (FT.): 839.7 LOG TYPE: Drillers Log

SOURCE: AMAX T2-298 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
402.2	PLEISTOCENE		CLAY	7.0	0.0	
395.2	PLEISTOCENE		SILTY CLAY	16.0	7.0	
379.2	PLEISTOCENE		CLAY	25.0	23.0	
354.2	PLEISTOCENE		SAND/CLAY	8.0	48.0	
346.2	PLEISTOCENE		UNKNOWN	1.0	56.0	DRILLER REPORTS COAL
345.2	PLEISTOCENE		SAND & GRAVEL	15.0	57.0	
330.2	MATTOON		COAL	3.0	72.0	TOP ERODED
327.2	BOND		GRAY SHALE	10.0	75.0	
317.2	BOND		GRAY SANDSTONE	5.0	85.0	
312.2	BOND		GRAY SHALE	34.0	90.0	
278.2	BOND		LIMESTONE	1.0	124.0	
277.2	BOND	WITT	COAL	2.0	125.0	
275.2	BOND		GRAY SHALE	7.0	127.0	
268.2	BOND		LIMESTONE	2.0	134.0	
266.2	BOND		GRAY SHALE	36.0	136.0	
230.2	BOND		LIMESTONE	2.0	172.0	
228.2	BOND		GRAY SHALE	76.0	174.0	
152.2	BOND		SANDY SHALE	19.0	250.0	
133.2	BOND		BROWN LIMESTONE	4.5	269.0	
128.7	BOND		DARK SHALE	6.5	273.5	
122.2	BOND		SANDY SHALE	77.0	280.0	
45.2			BLACK SHALE	3.0	357.0	
42.2			SANDY SHALE	91.0	360.0	
-48.8	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	451.0	
-55.8	SHELBURN		SANDY SHALE	7.0	458.0	
-62.8	SHELBURN		GRAY SANDSTONE	10.0	465.0	
-72.8	SHELBURN		SANDY SHALE	55.0	475.0	
-127.8	SHELBURN		GRAY SANDSTONE	20.0	530.0	
-147.8	SHELBURN		SANDY SHALE	30.0	550.0	
-177.8	SHELBURN		BROWN LIMESTONE	1.0	580.0	
-178.8	SHELBURN		GRAY SANDSTONE	18.0	581.0	
-196.8	SHELBURN		BROWN LIMESTONE	3.0	599.0	
-199.8	SHELBURN		GRAY SANDSTONE	18.0	602.0	
-217.8	SHELBURN		SANDY SHALE	38.0	620.0	
-255.8	SHELBURN	DANVILLE	COAL	2.0	658.0	
-257.8	SHELBURN		UNDERCLAY	1.0	660.0	
-258.8	SHELBURN		SANDY SHALE	6.5	661.0	
-265.3	SHELBURN		LIMESTONE	7.0	667.5	
-272.3	SHELBURN		DARK SHALE	8.0	674.5	

-280.3	SHELBURN		LIMESTONE	0.5	682.5	
-280.8	SHELBURN		GRAY SHALE	1.0	683.0	
-281.8	SHELBURN	BRERETON	LIMESTONE	0.5	684.0	
-282.3	CARBONDALE	ANNA	BLACK SHALE	0.5	684.5	
-282.8	CARBONDALE	HERRIN	COAL	3.5	685.0	
-286.3	CARBONDALE		UNDERCLAY	1.5	688.5	
-287.8	CARBONDALE		SANDY SHALE	4.0	690.0	
-291.8	CARBONDALE		CALCAREOUS SHALE	2.0	694.0	
-293.8	CARBONDALE		SANDY SHALE	55.5	696.0	
-349.3	CARBONDALE	BRIAR HILL	COAL	0.5	751.5	
-349.8	CARBONDALE		SANDY SHALE	45.1	752.0	
-394.9	CARBONDALE		SANDSTONE	0.6	797.1	FINE
-395.5	CARBONDALE		SANDY SHALE	14.3	797.7	
-409.8	CARBONDALE		SILTY SHALE	2.0	812.0	
-411.8	CARBONDALE		DARK SHALE	0.5	814.0	
-412.3	CARBONDALE	SPRINGFIELD	COAL	7.8	814.5	
-420.1	CARBONDALE		BLACK SHALE	0.1	822.3	
-420.2	CARBONDALE		UNDERCLAY	1.8	822.4	
-422.0	CARBONDALE		SILTY SHALE	2.6	824.2	
-424.6	CARBONDALE			11.1	826.8	
-435.7	CARBONDALE		SANDSTONE	1.8	837.9	

MAPID: 18590114000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 420' S line, 5' W line of SE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.868315 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.357337 DATE COLLECTED: 6 / 30 / 1982

SURFACE ELEVATION (FT.): 411.6 LOGGED (FT.): 820.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-299 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
411.6	PLEISTOCENE	WITT	CLAY	3.0	0.0	BROWN
408.6	PLEISTOCENE		CLAY	5.0	3.0	YELLOW
403.6	PLEISTOCENE		CLAY	55.0	8.0	GRAY
348.6	PLEISTOCENE		SAND & GRAVEL	5.0	63.0	
343.6	PLEISTOCENE		CLAY	3.0	68.0	
340.6	BOND		GRAY SANDSTONE	27.0	71.0	
313.6	BOND		SANDY SHALE	11.0	98.0	
302.6	BOND		LIMESTONE	1.0	109.0	
301.6	BOND		COAL	1.5	110.0	
300.1	BOND		SANDY SHALE	7.5	111.5	
292.6	BOND		LIMESTONE	2.0	119.0	
290.6	BOND		SANDY SHALE	39.0	121.0	
251.6	BOND		BROWN LIMESTONE	2.0	160.0	
249.6	BOND		COAL	1.0	162.0	
248.6	BOND		SANDY SHALE	17.0	163.0	
231.6	BOND		GRAY SANDSTONE	59.0	180.0	
172.6	BOND		LIMESTONE	6.0	239.0	
166.6	PATOKA		SANDY SHALE	19.0	245.0	
147.6	PATOKA		LIMESTONE	2.0	264.0	
145.6	PATOKA		GRAY SANDSTONE	4.0	266.0	
141.6	PATOKA		SANDY SHALE	64.5	270.0	
77.1	PATOKA	DANVILLE	COAL	1.5	334.5	
75.6	PATOKA		SANDY SHALE	17.5	336.0	
58.1	PATOKA		LIMESTONE	3.5	353.5	
54.6	PATOKA		SANDY SHALE	40.0	357.0	
14.6	PATOKA		DARK SHALE	18.0	397.0	
-3.4	PATOKA		GRAY SHALE	8.0	415.0	
-11.4	PATOKA		GRAY SANDSTONE	3.0	423.0	
-14.4	SHELBURN		BROWN LIMESTONE	6.0	426.0	
-20.4	SHELBURN		SANDY SHALE	18.0	432.0	
-38.4	SHELBURN		GRAY SHALE	110.0	450.0	
-148.4	SHELBURN		GRAY SANDSTONE	24.0	560.0	
-172.4	SHELBURN		GRAY SHALE	36.0	584.0	
-208.4	SHELBURN		COAL	3.0	620.0	
-211.4	SHELBURN		UNDERCLAY	2.0	623.0	
-213.4	SHELBURN		GRAY SHALE	7.0	625.0	
-220.4	SHELBURN		LIMESTONE	2.0	632.0	
-222.4	SHELBURN		CALCAREOUS SHALE	1.0	634.0	
-223.4	SHELBURN		DARK SHALE	0.3	635.0	

-223.7	SHELburn		SHALY LIMESTONE	1.6	635.3	
-225.3	SHELburn		SANDSTONE	21.9	636.9	
-247.2	CARBONDALE		BLACK SHALE	0.2	658.8	COAL #6 ZONE
-247.4	CARBONDALE		UNDERCLAY	1.8	659.0	
-249.2	CARBONDALE		CALCAREOUS SHALE	1.9	660.8	
-251.1	CARBONDALE		SANDY SHALE	4.3	662.7	
-255.4	CARBONDALE		CALCAREOUS SHALE	1.1	667.0	
-256.5	CARBONDALE		SANDY SHALE	4.4	668.1	
-260.9	CARBONDALE		SILTY SHALE	3.8	672.5	
-264.7	CARBONDALE		SILTY SHALE	0.4	676.3	DARK
-265.1	CARBONDALE		SANDSTONE	1.3	676.7	
-266.4	CARBONDALE			34.0	678.0	
-300.4	CARBONDALE		DARK SHALE	3.0	712.0	
-303.4	CARBONDALE	BRIAR HILL	COAL	1.5	715.0	
-304.9	CARBONDALE		SANDY SHALE	1.5	716.5	
-306.4	CARBONDALE			58.0	718.0	
-364.4	CARBONDALE		SANDY SHALE	16.5	776.0	
-380.9	CARBONDALE		DARK SHALE	0.8	792.5	
-381.7	CARBONDALE	SPRINGFIELD	COAL	8.2	793.3	
-389.9	CARBONDALE		UNDERCLAY	4.5	801.5	
-394.4	CARBONDALE		GRAY SHALE	0.5	806.0	
-394.9	CARBONDALE		SHALY SANDSTONE	1.1	806.5	
-396.0	CARBONDALE		SANDSTONE	12.4	807.6	

MAPID: 18590183000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 9 QUARTERS/FOOTAGES: 630' N line, 310' E line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.869371 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.361922 DATE COLLECTED: 7 / 31 / 1984

SURFACE ELEVATION (FT.): 403.2 LOGGED (FT.): 860.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-316 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
403.2	PLEISTOCENE	CARTHAGE	CLAY	5.0	0.0	BROWN
398.2	PLEISTOCENE		CLAY	64.0	5.0	GRAY
334.2	PLEISTOCENE			1.0	69.0	
333.2	PLEISTOCENE		CLAY	15.0	70.0	
318.2	BOND		GRAY SANDSTONE	18.0	85.0	
300.2	BOND		SANDY SHALE	5.0	103.0	
295.2	BOND		GRAY SHALE	10.0	108.0	
285.2	BOND		BLACK SHALE	4.0	118.0	
281.2	BOND		GRAY SHALE	1.5	122.0	
279.7	BOND		COAL	1.2	123.5	WITT?
278.5	BOND		UNDERCLAY	1.3	124.7	
277.2	BOND		GRAY SHALE	1.0	126.0	
276.2	BOND		LIMESTONE	3.0	127.0	GREEN
273.2	BOND		SANDY SHALE	3.0	130.0	LIGHT GREEN
270.2	BOND		SANDY SHALE	10.0	133.0	
260.2	BOND		DARK SHALE	23.5	143.0	
236.7	BOND		LIMESTONE	1.5	166.5	
235.2	BOND		COAL	1.5	168.0	FLANNIGAN?
233.7	BOND		GRAY SHALE	5.0	169.5	
228.7	BOND		SANDY SHALE	10.5	174.5	
218.2	BOND		SANDY SHALE	9.0	185.0	LIGHT GRAY
209.2	BOND		SANDY SHALE	16.0	194.0	
193.2	BOND		GRAY SANDSTONE	54.5	210.0	
138.7	BOND		LIMESTONE	6.5	264.5	
132.2	PATOKA	CHAPEL	BLACK SHALE	2.0	271.0	
130.2	PATOKA		GRAY SHALE	29.0	273.0	
101.2	PATOKA		SANDSTONE	10.0	302.0	
91.2	PATOKA		SANDY SHALE	32.0	312.0	
59.2	PATOKA		GRAY SHALE	13.0	344.0	
46.2	PATOKA		BLACK SHALE	3.0	357.0	
43.2	PATOKA		GRAY SHALE	5.0	360.0	
38.2	PATOKA		SHALE	15.0	365.0	
23.2	PATOKA		SANDY SHALE	35.0	380.0	
-11.8	PATOKA			5.0	415.0	
-16.8	PATOKA		DARK SHALE	19.0	420.0	
-35.8	PATOKA		BLACK SHALE	1.0	439.0	
-36.8	PATOKA		COAL	2.5	440.0	
-39.3	PATOKA		UNDERCLAY	3.5	442.5	
-42.8	PATOKA		GRAY SHALE	4.5	446.0	

-47.3	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	450.5
-55.3	SHELBURN		SANDY SHALE	10.5	458.5
-65.8	SHELBURN		GRAY SANDSTONE	11.0	469.0
-76.8	SHELBURN		GRAY SHALE	20.0	480.0
-96.8	SHELBURN		SANDY SHALE	31.0	500.0
-127.8	SHELBURN		GRAY SANDSTONE	17.0	531.0
-144.8	SHELBURN		SANDY SHALE	35.0	548.0
-179.8	SHELBURN		GRAY SANDSTONE	34.0	583.0
-213.8	SHELBURN		SANDY SHALE	18.0	617.0
-231.8	SHELBURN		GRAY SHALE	26.0	635.0
-257.8	SHELBURN		BROWN LIMESTONE	1.5	661.0
-259.3	SHELBURN		GRAY SANDSTONE	13.5	662.5
-272.8	SHELBURN	BRERETON	BROWN LIMESTONE	5.5	676.0
-278.3	CARBONDALE	HERRIN	COAL	5.0	681.5
-283.3	CARBONDALE		UNDERCLAY	4.0	686.5
-287.3	CARBONDALE		GRAY SANDSTONE	18.5	690.5
-305.8	CARBONDALE		SANDY SHALE	30.0	709.0
-335.8	CARBONDALE	BRIAR HILL	COAL	0.7	739.0
-336.5	CARBONDALE		SANDY SHALE	68.9	739.7
-405.4	CARBONDALE		DARK SHALE	0.7	808.6
-406.1	CARBONDALE	SPRINGFIELD	COAL	8.0	809.3
-414.1	CARBONDALE		UNDERCLAY	2.5	817.3
-416.6	CARBONDALE		SANDY SHALE	25.2	819.8
-441.8	CARBONDALE		SANDSTONE	15.0	845.0

MAPID: 18500202000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 165' W line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.8495 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.34936 DATE COLLECTED:

SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2398.0 LOG TYPE:

SOURCE: IL MID-CONT. CO. WELL TYPE: Producer-Oil

COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
24.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	410.0
-201.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	635.0
-506.0	CARBONDALE	COLCHESTER	COAL	-	940.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1964.0		BASE BARLOW	LIMESTONE	-	2398.0

MAPID: 18501277000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.837427 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.351069 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2680.0 LOG TYPE:
SOURCE: RATCLIFF RAYMOND F WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
41.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	390.0
-183.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	614.0
-507.0	CARBONDALE	COLCHESTER	COAL	-	938.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1951.0		BASE BARLOW	LIMESTONE	-	2382.0
-2249.0	RENAULT	BASE RENAULT	LIMESTONE	-	2680.0

MAPID: 18502139000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.837225 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.356589 DATE COLLECTED:
SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 2665.0 LOG TYPE:
SOURCE: INLAND PRODUCERS CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	419.0
-231.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	650.0
-527.0	CARBONDALE	COLCHESTER	COAL	-	946.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1941.0		BASE BARLOW	LIMESTONE	-	2360.0
-2246.0	RENAULT	BASE RENAULT	LIMESTONE	-	2665.0

MAPID: 18502139000C **VERSION:** 2 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.837225 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.356589 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 2800.0 **LOG TYPE:** Electric Log
SOURCE: INLAND PRODUCERS CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-234.0	CARBONDALE	HERRIN	COAL	2.0	653.0
-291.0	CARBONDALE	BRIAR HILL	COAL	-	710.0
-379.0	CARBONDALE	SPRINGFIELD	COAL	6.0	798.0
-467.0	CARBONDALE	HOUCHIN CREEK	COAL	-	886.0

MAPID: 18502248000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.846353 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.362356 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 2386.0 **LOG TYPE:**
SOURCE: WHITE, CHARLES C. **WELL TYPE:** Producer-Oil
COMMENT: ON LOW SIDE OF FAULT; MAY BE FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-79.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	478.0
-315.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	714.0
-606.0	CARBONDALE	COLCHESTER	COAL	-	1005.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1987.0		BASE BARLOW	LIMESTONE	-	2386.0

MAPID: 18504687000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.844211 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.354887 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 2680.0 **LOG TYPE:**
SOURCE: TATUM, W S **WELL TYPE:** Producer-Oil
COMMENT: WELL ON UP-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-9.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	419.0
-235.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	645.0
-565.0	CARBONDALE	COLCHESTER	COAL	-	975.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1974.0		BASE BARLOW	LIMESTONE	-	2384.0
-2270.0	RENAULT	BASE RENAULT	LIMESTONE	-	2680.0

MAPID: 18505544000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 10

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.851051

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.360551

DATE COLLECTED:

SURFACE ELEVATION (FT.): 412.0

LOGGED (FT.): 2692.0

LOG TYPE:

SOURCE: EGAN, T. M.

WELL TYPE: Producer-Oil

COMMENT: ON LOW SIDE OF FAULT; MAY BE FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	490.0
-315.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	727.0
-625.0	CARBONDALE	COLCHESTER	COAL	-	1037.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1994.0		BASE BARLOW	LIMESTONE	-	2406.0
-2280.0	RENAULT	BASE RENAULT	LIMESTONE	-	2692.0

MAPID: 18505906000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 675' S line, 0' W line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.854648 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.350386 DATE COLLECTED: 3 / 27 / 1973

SURFACE ELEVATION (FT.): 418.7 LOGGED (FT.): 1073.0 LOG TYPE: Drillers Log

SOURCE: AMAX C. C. T2-97 WELL TYPE: Coal Test

COMMENT: HOLE DRILLED 12 DEGREES OFF VERTICAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-287.2	CARBONDALE		COAL	2.5	705.9	
-289.7	CARBONDALE		COAL	2.5	708.4	'GAP IN CORE 708.4 TO 853.7 FT'
-435.0	CARBONDALE		COAL	8.2	853.7	
-443.2	CARBONDALE		UNDERCLAY	0.7	861.9	
-443.9	CARBONDALE		GRAY SHALE	3.5	862.6	'GAP IN CORE'
-454.3			SHALY SANDSTONE	5.0	873.0	
-459.3			SANDY SHALE	50.0	878.0	W/SANSTONE SEAMS
-509.3			SANDSTONE	18.0	928.0	
-527.3			SANDSTONE	13.5	946.0	W/HAIR LINE COAL SEAMS
-540.8			SANDY SHALE	4.5	959.5	W/SS SEAMS
-545.3			BONE COAL	1.2	964.0	
-546.5			CLAYSTONE & SHALE	1.8	965.2	
-548.3			SHALE	3.0	967.0	GRN GRAY
-551.3			SANDY SHALE	33.0	970.0	
-584.3			GRAY SHALE	13.0	1003.0	
-597.3			SILTY SHALE	4.5	1016.0	
-601.8			BLACK SHALE	2.0	1020.5	
-603.8			BONE COAL	0.5	1022.5	
-604.3			CLAYSTONE	1.0	1023.0	
-605.3			LAMINATED SHALE	9.0	1024.0	
-614.3			LAMINATED SHALE	2.0	1033.0	
-616.3			LAMINATED SHALE	1.7	1035.0	
-618.0			BLACK SHALE	1.2	1036.7	
-619.2			LAMINATED SHALE	0.8	1037.9	W/SS
-620.0			BLACK SHALE	0.6	1038.7	W/SULPHUR
-620.6			COAL	1.6	1039.3	
-622.2			ARGILACEOUS SHALE	1.2	1040.9	W/COAL PARTINGS
-623.4			SANDY SHALE	2.2	1042.1	W/SS
-625.6			SANDSTONE	1.1	1044.3	
-626.7			LAMINATED SHALE	5.3	1045.4	
-632.0			CLAYSTONE	0.4	1050.7	
-632.4			BLACK SHALE	0.1	1051.1	
-632.5			LAMINATED SHALE	2.8	1051.2	W/SIDERITE
-635.3			CALCAREOUS SHALE	0.4	1054.0	
-635.7			LIMESTONE	1.5	1054.4	
-637.2			DARK SHALE	0.1	1055.9	
-637.3			CALCAREOUS SHALE	1.0	1056.0	
-638.3			SHALE	0.3	1057.0	LT GRAY
-638.6			COAL	1.0	1057.3	

-639.6			CLAYSTONE	1.0	1058.3	
-640.6			SHALE	1.5	1059.3	DK GRAY
-642.1	SPOON	SEELYVILLE	COAL	4.4	1060.8	
-647.4			SILTY CLAYSTONE	0.2	1066.1	
-647.7			SILTSTONE	2.7	1066.4	
-650.3			SHALE	3.8	1069.0	LT GRAY

MAPID: 18505912000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1300' S line, 470' W line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.843616 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.359379 DATE COLLECTED: 3 / 13 / 1973

SURFACE ELEVATION (FT.): 412.3 LOGGED (FT.): 1019.0 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. T2-96 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
412.3			NO RECORD	658.0	0.0	
-245.7			SILTSTONE	1.0	658.0	GRN GRAY
-246.7			SANDSTONE	1.0	659.0	LT GRAY
-247.7			SHALE	1.7	660.0	MED GRAY
-249.4			SHALE	5.5	661.7	MED GRAY
-254.9			SHALE	0.8	667.2	DK GRAY
-255.7			CLAYSTONE	0.4	668.0	
-256.1			SANDSTONE	2.9	668.4	LT GRAY
-259.0			SANDSTONE	3.2	671.3	LT GRAY
-262.2			SHALE	2.2	674.5	DK GRAY
-264.4	CARBONDALE	CONANT	LIMESTONE	0.2	676.7	
-264.6			SHALE	0.1	676.9	GRY BLK
-264.7	CARBONDALE	JAMESTOWN	COAL	0.0	677.0	
-264.7			CLAYSTONE	0.6	677.0	MED GRAY
-265.3	CARBONDALE	BRERETON	LIMESTONE	0.3	677.6	MARKER IS 677.8; DK GRAY
-265.5			LIMESTONE	1.5	677.8	
-267.0			SHALE	0.4	679.3	DK GRAY
-267.4			SHALE	0.6	679.7	MARKER IS 680.4; GRY BLK
-268.1	CARBONDALE	HERRIN	COAL	4.1	680.4	
-272.2			CLAYSTONE	2.0	684.5	MED GRAY
-274.2			CLAYSTONE	0.7	686.5	INTERVAL NOT CORED; LT GRAY
-372.7	CARBONDALE	DYKERSBURG	SILTSTONE	10.0	785.0	MED GRAY
-382.7			SILTSTONE	9.8	795.0	
-392.5			SHALE	5.5	804.8	MED GRAY
-397.9	CARBONDALE	SPRINGFIELD	COAL	8.2	810.2	
-406.1			CLAYSTONE	1.3	818.4	MED GRAY
-407.4			SILTSTONE	1.1	819.7	INTERVAL IN CORE; MED GRAY
-423.9			SHALE	1.4	836.2	INTERVAL NOT CORED; MED GRAY
-570.7			SILTSTONE	1.1	983.0	LT GRAY
-571.8			SHALE	4.9	984.1	MED GRAY
-576.7			SHALE	1.1	989.0	MED GRAY
-577.8			SHALE	0.9	990.1	DK GRAY
-578.7			SHALE	2.0	991.0	DK GRAY
-580.7			SHALE	0.1	993.0	
-580.8			CALCAREOUS SHALE	1.6	993.1	FOSSILIFEROUS ZONE, SH, CLSTONE, STSTONE
-582.4	SPOON	SEELYVILLE	COAL	1.7	994.7	
-584.1			CLAYSTONE	0.3	996.4	DK GRAY
-584.4			SHALE	0.5	996.7	
-584.9			SHALE	5.8	997.2	MED GRAY

-590.7	SHALE	2.1	1003.0	MED GRAY
-592.8	SHALE	1.8	1005.1	MED GRAY
-594.6	SHALE	0.4	1006.9	GRY BLK
-595.0	LIMESTONE	0.9	1007.3	MED GRAY
-595.9	CLAYSTONE	1.4	1008.2	DK GRAY
-597.3	CLAYSTONE	0.7	1009.6	MED GRAY
-598.0	COAL	0.8	1010.3	
-598.8	CLAYSTONE	1.0	1011.1	LT GRAY
-599.8	COAL	4.9	1012.1	MARKER IS 1017.0
-604.7	CLAYSTONE	0.8	1017.0	MARKER IS 1017.9; OLV GRAY
-605.6	SILTSTONE	0.5	1017.9	LT GRAY
-606.1	SANDSTONE	0.6	1018.4	

MAPID: 18526000000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 130' S line, 1140' E line of SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.840354 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.348682 DATE COLLECTED:

SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 980.0 LOG TYPE:

SOURCE: AMOCO PROD. CO. WELL TYPE: Service Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	371.0
-184.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	605.0
-559.0	CARBONDALE	COLCHESTER	COAL	-	980.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18526547000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1725' S line, 1495' W line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.84938 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.35321 DATE COLLECTED: 7 / 28 / 1978

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 1068.7 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. T2-198 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
412.0			NO RECORD	670.0	0.0	
-258.0			SHALE	8.0	670.0	MED GRAY
-266.0			SHALE	8.0	678.0	
-274.0	CARBONDALE	DANVILLE	COAL	4.0	686.0	
-278.0			CLAYSTONE	3.9	690.0	LT GRAY
-281.9			LIMESTONE	1.8	693.9	LT GRAY
-283.7			SANDSTONE	2.3	695.7	LT GRAY
-286.0			SANDSTONE	7.2	698.0	LT GRAY
-293.2	CARBONDALE	JAMESTOWN	CLAYSTONE	0.3	705.2	DK GRAY
-293.5			SILTSTONE	0.5	705.5	GRAY GRN
-294.0			SANDSTONE	3.0	706.0	LT GRAY
-297.0			SILTSTONE	4.0	709.0	LT GRAY
-301.0			SHALE	0.8	713.0	MED GRAY
-301.8	CARBONDALE	BRERETON	LIMESTONE	0.8	713.8	GRAY
-302.6	CARBONDALE	BRERETON	LIMESTONE	2.4	714.6	LT GRAY
-305.0	CARBONDALE	BRERETON	LIMESTONE	1.2	717.0	LT GRAY
-306.2			CLAYSTONE	0.3	718.2	DK GRAY
-306.5			UNCLASSIFIED	1.0	718.5	CORE LOSS
-307.5	CARBONDALE	HERRIN	COAL	3.6	719.5	REMOVED 719.5-723.1
-311.1			CLAYSTONE	1.9	723.1	LT GRAY
-313.0			CLAYSTONE	1.0	725.0	GAP IN CORE; GRAY
-398.0			SILTSTONE	8.0	810.0	GRAY
-406.0			SILTSTONE	6.7	818.0	LOG HAS BOTTOM AT 824.7
-413.0			SILTSTONE	8.0	825.0	MED GRAY
-421.0			SILTSTONE	8.0	833.0	
-429.0			SILTSTONE	3.0	841.0	
-432.0			SILTSTONE	8.0	844.0	MED GRAY
-440.0			SILTSTONE	8.0	852.0	LT GRAY
-448.0			SILTSTONE	3.0	860.0	MED GRAY
-451.0			SHALE	8.0	863.0	MED GRAY
-459.0	CARBONDALE	SPRINGFIELD	COAL	5.7	871.0	
-464.7			CLAYSTONE	2.3	876.7	LT GRAY
-467.0			SHALE	3.0	879.0	
-470.0			SHALE	4.5	882.0	LT GRAY
-474.5			SILTSTONE	3.5	886.5	MED GRAY
-478.0			SANDSTONE	8.0	890.0	LT GRAY
-486.0			SANDSTONE	0.2	898.0	
-486.2			SANDSTONE	2.8	898.2	LT GRAY
-489.0			SANDSTONE	3.0	901.0	LT GRAY

-492.0			BRECCIA	2.0	904.0	LT GRAY
-494.0			LIMESTONE	3.0	906.0	LT GRAY
-497.0			SANDSTONE	2.0	909.0	CORE LOSS; LT GRAY
-603.0			SANDSTONE	2.0	1015.0	LT GRAY
-605.0			SILTSTONE	2.0	1017.0	LT GRAY
-607.0			SHALE	4.0	1019.0	MED GRAY
-611.0			SHALE	2.0	1023.0	MED GRAY
-613.0			BLACK SHALE	2.6	1025.0	
-615.6			CLAYSTONE	0.3	1027.6	DK GRAY
-615.9			GRAY SHALE	0.5	1027.9	
-616.4	SPOON	DAVIS	COAL	2.6	1028.4	
-619.0	SPOON	DAVIS	BONE COAL	0.2	1031.0	
-619.2			SHALE	4.0	1031.2	LT GRAY
-623.2			SHALE	4.0	1035.2	LOG HAS BOTTOM AT 1039.2; MED GRAY
-627.0			GRAY SHALE	2.3	1039.0	
-629.3			GRAY SHALE	0.5	1041.3	
-629.8			LIMESTONE	0.6	1041.8	MED GRAY
-630.4			GRAY SHALE	2.3	1042.4	
-632.7	SPOON	DAVIS	COAL	2.3	1044.7	
-635.0	SPOON	DAVIS	COAL	4.0	1047.0	LOG HAS 1047.
-639.2			CLAYSTONE	1.1	1051.2	LOG HAS 1051.2
-640.3			SANDSTONE	1.4	1052.3	LT GRAY
-641.7			SHALE	0.7	1053.7	LT GRAY
-642.4			LIMESTONE	0.4	1054.4	GAP IN CORE; LT GRAY
-643.0			LIMESTONE	0.2	1055.0	
-643.2			SHALE	4.1	1055.2	LT GRAY
-647.3			LIMESTONE	0.5	1059.3	LT GRAY
-647.8			GRAY SHALE	1.3	1059.8	
-649.1			LIMESTONE	1.3	1061.1	LT GRAY
-650.4			SANDSTONE	0.6	1062.4	LT GRAY
-651.0			SHALE	5.7	1063.0	MED GRAY

MAPID: 18526548000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1667' S line, 1578' W line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.849089 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.353046 DATE COLLECTED: 8 / 8 / 1978

SURFACE ELEVATION (FT.): 412.4 LOGGED (FT.): 1200.0 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. T2-200 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
412.4			SILT	3.0	0.0	
409.4			CLAY	17.0	3.0	
392.4			GRAY SHALE	40.0	20.0	
352.4			SANDY SHALE	15.0	60.0	
337.4			COAL	1.0	75.0	
336.4			UNDERCLAY	1.0	76.0	
335.4			GRAY SHALE	3.0	77.0	
332.4			SANDSTONE	7.0	80.0	
325.4			SANDY SHALE	5.0	87.0	
320.4			COAL	1.0	92.0	
319.4			UNDERCLAY	1.0	93.0	
318.4			GRAY SHALE	26.0	94.0	
292.4			BLACK SHALE	4.0	120.0	
288.4			SANDY SHALE	6.0	124.0	
282.4			LIMESTONE	2.0	130.0	
280.4			GRAY SHALE	38.0	132.0	
242.4			BLACK SHALE	2.0	170.0	
240.4			DARK SHALE	4.0	172.0	
236.4			COAL	1.0	176.0	
235.4			UNDERCLAY	1.0	177.0	
234.4			GRAY SHALE	41.0	178.0	
193.4			BLACK SHALE	5.0	219.0	
188.4			SANDY SHALE	76.0	224.0	
112.4			GRAY SHALE	184.0	300.0	
-71.6			LIMESTONE	4.0	484.0	
-75.6			SHALE	189.0	488.0	
-264.6	CARBONDALE	DANVILLE	COAL	6.0	677.0	
-270.6			UNDERCLAY	2.0	683.0	
-272.6			SANDY SHALE	2.0	685.0	
-274.6			LIMESTONE	3.0	687.0	
-277.6			SANDY SHALE	16.0	690.0	
-293.6			LIMESTONE	4.0	706.0	
-297.6	CARBONDALE	HERRIN	COAL	6.0	710.0	
-303.6			UNDERCLAY	2.0	716.0	
-305.6			GRAY SHALE	12.0	718.0	
-317.6			LIMESTONE	1.0	730.0	
-377.6			SHALE	8.0	790.0	BEGINNING OF CORE STUDY; MED GRAY
-385.6			SHALE	8.0	798.0	
-393.6			SILTSTONE	8.0	806.0	MED GRAY

-401.6			SILTSTONE	8.0	814.0	
-409.6			SHALE	3.0	822.0	CORE LOSS 825.0 - 826.0; LT GRAY
-413.6			SHALE	4.0	826.0	
-417.6			SHALE	8.0	830.0	
-425.6			SHALE	8.0	838.0	
-433.6			SHALE	3.9	846.0	
-437.5	CARBONDALE	SPRINGFIELD	COAL	4.1	849.9	
-441.6			CLAYSTONE	8.0	854.0	MED GRAY
-449.6			SHALE	8.0	862.0	LT GRAY
-457.6			SHALE	2.0	870.0	
-459.6			SANDSTONE	4.0	872.0	LT GRAY
-463.6			SANDSTONE	2.0	876.0	LT GRAY
-465.6			SANDSTONE	8.0	878.0	
-473.6			SANDSTONE	7.0	886.0	END OF CORE STUDY
-506.6			SANDY SHALE	17.0	919.0	
-523.6			DARK SHALE	4.0	936.0	
-527.6			GRAY SHALE	61.0	940.0	
-588.6			BLACK SHALE	16.0	1001.0	
-604.6			GRAY SHALE	5.0	1017.0	
-609.6	SPOON	DEKOVEN	COAL	3.0	1022.0	
-612.6			UNDERCLAY	1.0	1025.0	
-613.6			SANDY SHALE	12.0	1026.0	
-625.6	SPOON	DAVIS	COAL	6.0	1038.0	
-631.6			UNDERCLAY	1.0	1044.0	
-632.6			SANDY SHALE	8.0	1045.0	
-640.6			LIMESTONE	2.0	1053.0	
-642.6			SHALE	15.0	1055.0	
-657.6			CALCAREOUS SHALE	2.0	1070.0	
-659.6			SHALE	23.0	1072.0	
-682.6			LIMESTONE	6.0	1095.0	
-688.6			SHALE	31.0	1101.0	
-719.6			LIMESTONE	4.0	1132.0	
-723.6			SHALE	64.0	1136.0	

MAPID: 18526550000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 10

QUARTERS/FOOTAGES: SE NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.847624

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.357716

DATE COLLECTED: 10 / 23 / 1977

SURFACE ELEVATION (FT.): 407.1

LOGGED (FT.): 909.0

LOG TYPE: Survey Core Study

SOURCE: AMAX

T2-194

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
407.1			NO RECORD	803.0	0.0	
-395.9			SILTSTONE	8.0	803.0	LT GRAY
-403.9			SILTSTONE	8.0	811.0	
-411.9			SILTSTONE	8.0	819.0	
-419.9			SILTSTONE	8.0	827.0	
-427.9			SHALE	8.0	835.0	MED GRAY
-435.9			SHALE	7.2	843.0	
-443.1			UNCLASSIFIED	1.0	850.2	CORE MISSING
-444.1	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	8.0	851.2	CORE MISSING
-452.1			CLAYSTONE	1.0	859.2	CORE MISSING
-453.1			CLAYSTONE	2.0	860.2	LT GRAY
-455.1			SHALE	5.8	862.2	LT GRAY
-460.9			SILTSTONE	8.0	868.0	LT GRAY
-468.9			SHALE	8.0	876.0	LT GRAY
-476.9			SANDSTONE	6.0	884.0	LT GRAY
-482.9			SANDSTONE	8.0	890.0	
-490.9			SANDSTONE	8.0	898.0	
-498.9			SANDSTONE	3.0	906.0	

MAPID: 18527486000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.838474

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.353849

DATE COLLECTED: 6 / 17 / 1981

SURFACE ELEVATION (FT.): LOGGED (FT.): 270.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	20.0	0.0	
-			MUD	18.0	20.0	
-			COAL	7.0	38.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	8.0	45.0	
-			COAL	2.0	53.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	1.0	55.0	
-			GRAY SHALE	7.0	56.0	
-			DARK SHALE	4.0	63.0	
-			CALCAREOUS SANDSTONE	1.0	67.0	
-			SANDSTONE	22.0	68.0	
-			DARK SHALE	20.0	90.0	
-			LIMESTONE	4.0	110.0	
-	BOND	WITT	COAL	3.0	114.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	6.0	117.0	
-	BOND		GRAY SHALE	2.0	123.0	
-	BOND		LIMESTONE	3.0	125.0	
-	BOND		GRAY SHALE	25.0	128.0	
-	BOND		DARK SHALE	12.0	153.0	
-	BOND	FLANNIGAN	COAL	2.0	165.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	2.0	167.0	
-	BOND		GRAY SHALE	31.0	169.0	
-	BOND		SANDY SHALE	10.0	200.0	
-	BOND		SANDSTONE	14.0	210.0	
-	BOND		GRAY SHALE	2.0	224.0	
-	BOND		SANDSTONE	19.0	226.0	
-	BOND		DARK SHALE	2.0	245.0	
-	BOND	MT. CARMEL	SANDSTONE	23.0	247.0	

MAPID: 18527908000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 231' N line, 33' E line of NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.836447 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.354617 DATE COLLECTED: 7 / 22 / 1980

SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 814.8 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. T2-247 WELL TYPE: Coal Test

COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
422.0			CLAY	5.0	0.0
417.0			UNCONSOLIDATED	26.0	5.0
391.0	BOND		SANDSTONE	36.0	31.0
355.0	BOND		GRAY SHALE	23.0	67.0
332.0	BOND	WITT	COAL	3.0	90.0
329.0	BOND		LIMESTONE	1.0	93.0
328.0	BOND		GRAY SHALE	85.0	94.0
243.0	BOND		SANDY SHALE	42.0	179.0
201.0	BOND		GRAY SHALE	16.0	221.0
185.0	BOND	CARTHAGE	LIMESTONE	4.0	237.0
181.0	PATOKA		COAL	2.0	241.0
179.0	PATOKA		GRAY SHALE	92.0	243.0
87.0	PATOKA		SANDY SHALE	12.0	335.0
75.0	PATOKA		LIMESTONE	11.0	347.0
64.0	PATOKA		SANDSTONE	55.0	358.0
9.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	413.0
1.0	SHELBURN		GRAY SHALE	2.0	421.0
-1.0	SHELBURN		SANDSTONE	7.0	423.0
-8.0	SHELBURN		SANDY SHALE	14.0	430.0
-22.0	SHELBURN		GRAY SHALE	173.0	444.0
-195.0	SHELBURN		SANDY SHALE	11.0	617.0
-206.0	SHELBURN		LIMESTONE	4.0	628.0
-210.0			SANDSTONE	8.0	632.0
-218.0			GRAY SHALE	7.0	640.0
-225.0	CARBONDALE	ANNA	BLACK SHALE	2.0	647.0
-227.0	CARBONDALE	HERRIN	COAL	5.0	649.0
-232.0	CARBONDALE		UNDERCLAY	2.0	654.0
-234.0	CARBONDALE		GRAY SHALE	7.0	656.0
-241.0	CARBONDALE		SANDY SHALE	129.2	663.0
-370.2	CARBONDALE	SPRINGFIELD	COAL	6.2	792.2
-376.4	CARBONDALE		UNDERCLAY	1.7	798.4
-378.1	CARBONDALE		COAL	0.6	800.1
-378.7	CARBONDALE		GRAY SHALE	7.7	800.7
-386.4	CARBONDALE		SANDSTONE	6.4	808.4

MAPID: 18590002000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 27' S line, 11' E line of SW NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.840921 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.355372 **DATE COLLECTED:** 7 / 12 / 1972
SURFACE ELEVATION (FT.): 415.4 **LOGGED (FT.):** 175.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. WST-13-72 **WELL TYPE:** Coal Test
COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
415.4			CLAY	15.0	0.0
400.4			UNCONSOLIDATED	26.0	15.0
374.4	BOND		SANDY SHALE	39.0	41.0
335.4	BOND		DARK GRAY SHALE	16.0	80.0
319.4	BOND		BLACK SHALE	1.6	96.0
317.8	BOND		LIMESTONE	1.4	97.6
316.4	BOND	WITT	COAL	0.5	99.0
315.9	BOND		UNDERCLAY	1.5	99.5
314.4	BOND		GRAY SHALE	4.0	101.0
310.4	BOND		LIMESTONE	3.0	105.0
307.4	BOND		DARK GRAY SHALE	33.0	108.0
274.4	BOND		BLACK SHALE	2.0	141.0
272.4	BOND	REEL	LIMESTONE	2.3	143.0
270.1	BOND	FLANNIGAN	COAL	0.8	145.3
269.4	BOND		UNDERCLAY	2.0	146.0
267.4	BOND		SANDY SHALE	27.0	148.0

MAPID: 18590003000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 15' S line, 17' E line of SW NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.840782 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.355782 **DATE COLLECTED:** 10 / 13 / 1970
SURFACE ELEVATION (FT.): 414.7 **LOGGED (FT.):** 68.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. A-323 **WELL TYPE:** Coal Test
COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
414.7			UNCONSOLIDATED	6.0	0.0
408.7			SAND	2.0	6.0
406.7			UNCONSOLIDATED	27.0	8.0
379.7			UNCONSOLIDATED	7.5	35.0
372.2			SANDY SHALE	4.0	42.5
368.2			SANDSTONE	2.0	46.5
366.2			SANDY SHALE	13.5	48.5
352.7			SANDSTONE	6.0	62.0

MAPID: 18590004000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 31' S line, 22' E line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.836175 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.355746 DATE COLLECTED: 10 / 13 / 1970
SURFACE ELEVATION (FT.): 419.4 LOGGED (FT.): 48.5 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. A-325 WELL TYPE: Coal Test
COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
419.4			UNCONSOLIDATED	4.0	0.0
415.4			UNCONSOLIDATED	20.0	4.0
395.4			SANDY SHALE	2.6	24.0
392.8			SANDSTONE	4.9	26.6
387.9			SANDY SHALE	12.5	31.5
375.4			SANDSTONE	4.5	44.0

MAPID: 18590005000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 31' S line, 568' E line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.838309 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.355348 DATE COLLECTED: 7 / 14 / 1972
SURFACE ELEVATION (FT.): 419.8 LOGGED (FT.): 175.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. WST-14-72 WELL TYPE: Coal Test
COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
419.8			CLAY	15.0	0.0
404.8			SAND	16.0	15.0
388.8	BOND		SANDY SHALE	40.0	31.0
348.8	BOND		DARK GRAY SHALE	22.0	71.0
326.8	BOND		BLACK SHALE	1.7	93.0
325.1	BOND		LIMESTONE	1.0	94.7
324.1	BOND		BLACK SHALE	0.6	95.7
323.5	BOND	WITT	COAL	1.3	96.3
322.2	BOND		UNDERCLAY	1.4	97.6
320.8	BOND		GRAY SHALE	3.0	99.0
317.8	BOND		LIMESTONE	3.0	102.0
314.8	BOND		GRAY SHALE	15.0	105.0
299.8	BOND		DARK GRAY SHALE	19.0	120.0
280.8	BOND		BLACK SHALE	1.0	139.0
279.8	BOND	REEL	LIMESTONE	1.0	140.0
278.8	BOND	FLANNIGAN	COAL	0.5	141.0
278.3	BOND		UNDERCLAY	1.5	141.5
276.8	BOND		GRAY SHALE	18.0	143.0
258.8	BOND		SANDY SHALE	14.0	161.0

MAPID: 18590006000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 30' S line, 73' E line of SE NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.836574 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.355332 **DATE COLLECTED:** 7 / 18 / 1972
SURFACE ELEVATION (FT.): 417.2 **LOGGED (FT.):** 178.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. WST-15-72 **WELL TYPE:** Coal Test
COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
417.2			CLAY	12.0	0.0
405.2			SAND	22.0	12.0
383.2	BOND		GRAY SHALE	3.0	34.0
380.2	BOND		SANDSTONE	2.0	37.0
378.2	BOND		SANDY SHALE	23.0	39.0
355.2	BOND		DARK SHALE	23.0	62.0
332.2	BOND		BLACK SHALE	1.5	85.0
330.7	BOND	WITT	COAL	1.0	86.5
329.7	BOND		UNDERCLAY	2.5	87.5
327.2	BOND		GRAY SHALE	10.0	90.0
317.2	BOND		DARK GRAY SHALE	27.0	100.0
290.2	BOND		BLACK SHALE	2.0	127.0
288.2	BOND	REEL	LIMESTONE	1.0	129.0
287.2	BOND	FLANNIGAN	COAL	0.6	130.0
286.6	BOND		UNDERCLAY	1.4	130.6
285.2	BOND		SANDY SHALE	46.0	132.0

MAPID: 18590007000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:**
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.940267 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.429456 **DATE COLLECTED:** 6 / 23 / 1982
SURFACE ELEVATION (FT.): 406.4 **LOGGED (FT.):** 52.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX COAL CO. OBSW-GG-1 **WELL TYPE:** Coal Test
COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
406.4			CLAY	26.0	0.0
380.4			SAND	16.0	26.0
364.4			GRAY SHALE	10.0	42.0

MAPID: 18590008000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 10

QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG

LONGITUDE: -87.937432

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.430194

DATE COLLECTED: 6 / 25 / 1982

SURFACE ELEVATION (FT.): 425.8

LOGGED (FT.): 31.0

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO.

OBSW7-GG-2

WELL TYPE: Coal Test

COMMENT: DATA SUBMITTED WITH MINE PERMIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.8			CLAY	11.0	0.0	
414.8			SANDY CLAY	7.0	11.0	
407.8			CLAY	11.8	18.0	
396.0			GRAY SHALE	1.2	29.8	

MAPID: 18590115000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 74' S line, 2456' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.846025 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.356034 DATE COLLECTED: 12 / 11 / 1980

SURFACE ELEVATION (FT.): 385.9 LOGGED (FT.): 779.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-272 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
385.9	PLEISTOCENE		SANDY CLAY	4.0	0.0
381.9	PLEISTOCENE		SAND	12.0	4.0
369.9	PLEISTOCENE			51.0	16.0
318.9	BOND		SANDSTONE	18.0	67.0
300.9	BOND		GRAY SHALE	14.0	85.0
286.9	BOND		SANDSTONE	18.0	99.0
268.9	PATOKA		GRAY SHALE	20.0	117.0
248.9	PATOKA		GRAY SANDSTONE	3.0	137.0
245.9	PATOKA		GRAY SHALE	87.0	140.0
158.9	PATOKA		BROWN LIMESTONE	2.0	227.0
156.9	PATOKA		GRAY SHALE	5.0	229.0
151.9	PATOKA		GRAY SANDSTONE	5.0	234.0
146.9	PATOKA		SANDY SHALE	37.0	239.0
109.9	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	4.0	276.0
105.9	SHELBURN		GRAY SHALE	14.0	280.0
91.9	SHELBURN		BROWN LIMESTONE	31.0	294.0
60.9	SHELBURN		BLACK SHALE	2.0	325.0
58.9	SHELBURN		GRAY SHALE	13.0	327.0
45.9	SHELBURN		SANDY SHALE	79.0	340.0
-33.1	SHELBURN		GRAY SHALE	62.0	419.0
-95.1	SHELBURN		BLACK SHALE	2.0	481.0
-97.1	SHELBURN	DANVILLE	COAL	2.0	483.0
-99.1	SHELBURN		UNDERCLAY	1.0	485.0
-100.1	SHELBURN		SANDY SHALE	18.0	486.0
-118.1	SHELBURN		LIMESTONE	3.0	504.0
-121.1	SHELBURN		MICACEOUS SHALE	4.0	507.0
-125.1	SHELBURN		CALCAREOUS SHALE	9.0	511.0
-134.1	SHELBURN	BRERETON	LIMESTONE	8.0	520.0
-142.1	CARBONDALE	ANNA	BLACK SHALE	2.0	528.0
-144.1	CARBONDALE	HERRIN	COAL	3.5	530.0
-147.6	CARBONDALE		UNDERCLAY	1.5	533.5
-149.1	CARBONDALE		SANDY SHALE	13.0	535.0
-162.1	CARBONDALE		CALCAREOUS SHALE	12.0	548.0
-174.1	CARBONDALE		GRAY SHALE	100.9	560.0
-275.0	CARBONDALE	SPRINGFIELD	COAL	7.3	660.9
-282.3	CARBONDALE		UNDERCLAY	1.2	668.2
-283.5	CARBONDALE		GRAY SHALE	4.6	669.4
-288.1	CARBONDALE		SANDY SHALE	3.3	674.0
-291.4	CARBONDALE		SHALY SANDSTONE	3.8	677.3

-295.2	CARBONDALE		SANDSTONE	43.9	681.1
-339.1	CARBONDALE		GRAY SHALE	23.0	725.0
-362.1	CARBONDALE		BLACK SHALE	4.5	748.0
-366.6	CARBONDALE	HOUCHIN CREEK	COAL	3.0	752.5
-369.6	CARBONDALE		UNDERCLAY	1.5	755.5
-371.1	CARBONDALE		GRAY SHALE	4.0	757.0
-375.1	CARBONDALE		BLACK SHALE	1.0	761.0
-376.1	CARBONDALE		COAL	3.0	762.0
-379.1	CARBONDALE		UNDERCLAY	1.0	765.0
-380.1	CARBONDALE		SANDY SHALE	13.0	766.0

MAPID: 18590116000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 10 **QUARTERS/FOOTAGES:** 12' S line, 61' W line of SW NW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.854379 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.356007 **DATE COLLECTED:** 11 / 12 / 1970
SURFACE ELEVATION (FT.): 416.2 **LOGGED (FT.):** 98.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE A317Y **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
416.2	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
410.2	PLEISTOCENE		SAND	3.0	6.0
407.2	PLEISTOCENE		MUD	34.0	9.0
373.2	PLEISTOCENE		CLAY	7.8	43.0
365.4			GRAY SHALE	8.3	50.8
357.2			GRAY SHALE	24.0	59.0
333.2			BLACK SHALE	0.8	83.0
332.4			COAL	2.3	83.8
330.2			UNDERCLAY	2.5	86.0
327.7			DARK SHALE	9.5	88.5

MAPID: 18590117000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 14' S line, 110' W line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.849583 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.35593 DATE COLLECTED: 10 / 13 / 1970
SURFACE ELEVATION (FT.): 413.4 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE A319Y WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
413.4	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
407.4	PLEISTOCENE		SAND	4.0	6.0
403.4	PLEISTOCENE		CLAY	59.0	10.0
344.4			GRAY SHALE	6.5	69.0
337.9			COAL	2.8	75.5
335.1			UNDERCLAY	2.7	78.3
332.4			GRAY SHALE	4.0	81.0
328.4			SANDSTONE	4.0	85.0

MAPID: 18590118000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 14' S line, 43' E line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.845496 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.35586 DATE COLLECTED: 10 / 13 / 1970
SURFACE ELEVATION (FT.): 409.2 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE A321 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
409.2	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0
399.2	PLEISTOCENE		CLAY	32.0	10.0
367.2	PLEISTOCENE			4.0	42.0
363.2	PLEISTOCENE		CLAY	6.7	46.0
356.5			SANDSTONE	21.3	52.7

MAPID: 18590145000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 10

QUARTERS/FOOTAGES: 247' S line, 132' E line of SE SW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.845962

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.34908

DATE COLLECTED: 4 / 14 / 1971

SURFACE ELEVATION (FT.): 438.3

LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE

P9

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.3	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
432.3	PLEISTOCENE		SAND	8.0	6.0	
424.3	PLEISTOCENE		UNCONSOLIDATED	21.0	14.0	
403.3			SHALE	1.0	35.0	

MAPID: 18590184000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1059' S line, 51' W line of SW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.854386 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.358884 DATE COLLECTED: 6 / 18 / 1982

SURFACE ELEVATION (FT.): 411.3 LOGGED (FT.): 891.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-294 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
411.3	PLEISTOCENE		CLAY	13.0	0.0
398.3	PLEISTOCENE		UNCONSOLIDATED	24.0	13.0
374.3	PLEISTOCENE		CLAY	18.0	37.0
356.3	PLEISTOCENE		SAND	8.0	55.0
348.3	PLEISTOCENE		UNCONSOLIDATED	7.0	63.0
341.3			COAL	1.0	70.0 TOP ERODED
340.3	BOND		SANDY SHALE	8.5	71.0
331.8	BOND		LIMESTONE	0.5	79.5
331.3	BOND		SANDY SHALE	0.5	80.0
330.8	BOND		COAL	4.5	80.5 BRISTOL HILL?
326.3	BOND		GRAY SHALE	10.0	85.0
316.3	BOND		DARK SHALE	5.0	95.0
311.3	BOND		GRAY SANDSTONE	5.0	100.0
306.3	BOND		LIMESTONE	1.0	105.0
305.3	BOND		GRAY SANDSTONE	25.0	106.0
280.3	BOND		DARK SHALE	19.0	131.0
261.3	BOND		LIMESTONE	2.0	150.0
259.3	BOND		COAL	1.0	152.0 FLANNIGAN?
258.3	BOND		GRAY SHALE	8.0	153.0
250.3	BOND		LIMESTONE	1.0	161.0
249.3	BOND		GRAY SHALE	39.0	162.0
210.3	BOND		GRAY SANDSTONE	1.0	201.0
209.3	BOND		SANDY SHALE	68.0	202.0
141.3	BOND		GRAY SANDSTONE	80.0	270.0
61.3			GRAY SHALE	140.0	350.0
-78.7			GRAY SANDSTONE	5.0	490.0
-83.7	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	4.0	495.0
-87.7	SHELBURN		GRAY SHALE	71.0	499.0
-158.7	SHELBURN		SANDY SHALE	70.0	570.0
-228.7	SHELBURN		SANDSTONE	25.0	640.0
-253.7	SHELBURN		GRAY SHALE	30.0	665.0
-283.7	SHELBURN	DANVILLE	COAL	3.0	695.0
-286.7	SHELBURN		GRAY SHALE	2.0	698.0
-288.7	SHELBURN		BROWN LIMESTONE	2.0	700.0
-290.7	SHELBURN		SANDY SHALE	8.0	702.0
-298.7	SHELBURN		BROWN LIMESTONE	1.0	710.0
-299.7	SHELBURN		GRAY SHALE	6.0	711.0
-305.7	SHELBURN		BROWN LIMESTONE	5.0	717.0
-310.7	SHELBURN		SANDY SHALE	9.0	722.0

-319.7	CARBONDALE	HERRIN	COAL	3.0	731.0
-322.7	CARBONDALE		GRAY SHALE	6.0	734.0
-328.7	CARBONDALE		GRAY SANDSTONE	30.0	740.0
-358.7	CARBONDALE		SANDY SHALE	60.0	770.0
-418.7	CARBONDALE		GRAY SHALE	21.0	830.0
-439.7	CARBONDALE		SILTSTONE	11.5	851.0
-451.2	CARBONDALE		GRAY SHALE	0.8	862.5
-452.0	CARBONDALE		DARK SHALE	0.3	863.3
-452.3	CARBONDALE	SPRINGFIELD	COAL	7.7	863.6
-460.0	CARBONDALE		DARK SHALE	0.2	871.3
-460.2	CARBONDALE		SILTSTONE	13.4	871.5
-473.6	CARBONDALE		GRAY SHALE	6.1	884.9

MAPID: 18590185000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 45' S line, 214' E line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.850833 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.348592 DATE COLLECTED: 3 / 5 / 1970

SURFACE ELEVATION (FT.): 430.9 LOGGED (FT.): 527.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AST2-2 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.9	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
419.9	PLEISTOCENE		CLAY	25.0	11.0	
394.9	MATTOON		GRAY SHALE	17.5	36.0	
377.4	MATTOON		DARK SHALE	8.3	53.5	
369.1	MATTOON	KEENSBURG	COAL	1.3	61.8	FAIR
367.9	MATTOON		UNDERCLAY	4.0	63.0	
363.9	MATTOON		LIMESTONE	3.7	67.0	
360.2	MATTOON		SANDY SHALE	36.3	70.7	
323.9	MATTOON	FRIENDSVILLE	COAL	2.3	107.0	FAIR
321.6	BOND		UNDERCLAY	2.7	109.3	
318.9	BOND		GRAY SHALE	8.0	112.0	
310.9	BOND		GRAY SANDSTONE	3.0	120.0	
307.9	BOND		SANDY SHALE	37.0	123.0	
270.9	BOND		DARK SHALE	33.5	160.0	
237.4	BOND	WITT	COAL	2.0	193.5	FAIR
235.4	BOND		UNDERCLAY	3.5	195.5	
231.9	BOND	REEL	LIMESTONE	4.0	199.0	
227.9	BOND		GRAY SHALE	22.0	203.0	
205.9	BOND		SANDY SHALE	56.0	225.0	
149.9	BOND		GRAY SANDSTONE	23.0	281.0	
126.9	BOND		GRAY SANDSTONE	16.0	304.0	
110.9	BOND		GRAY SANDSTONE	6.0	320.0	
104.9			SANDY SHALE	3.2	326.0	
101.7			COAL	0.8	329.2	FAIR
100.9			SANDY SHALE	4.0	330.0	
96.9			GRAY SANDSTONE	20.0	334.0	
76.9			SANDY SHALE	7.0	354.0	
69.9			GRAY SANDSTONE	10.0	361.0	
59.9			SANDY SHALE	7.0	371.0	
52.9			CALCAREOUS SHALE	30.0	378.0	
22.9			GRAY SHALE	16.5	408.0	
6.4			COAL	2.1	424.5	FAIR
4.3			GRAY SHALE	5.4	426.6	SOFT
-1.1			GRAY SANDSTONE	16.0	432.0	
-17.1			SANDY SHALE	27.0	448.0	
-44.1			GRAY SANDSTONE	14.0	475.0	
-58.1			LIMESTONE	4.7	489.0	WHITE
-62.8			SANDY SHALE	1.3	493.7	
-64.1			GRAY SANDSTONE	6.0	495.0	

-70.1		SANDY SHALE	8.0	501.0
-78.1		GRAY SANDSTONE	11.0	509.0
-89.1		SANDY SHALE	7.0	520.0

MAPID: 18590186000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 27' S line, 491' E line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.851801 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.348556 DATE COLLECTED: 3 / 5 / 1970

SURFACE ELEVATION (FT.): 430.2 LOGGED (FT.): 578.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AST2-3 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.2	PLEISTOCENE		SANDY CLAY	8.0	0.0	
422.2	PLEISTOCENE		CLAY	30.0	8.0	
392.2	MATTOON		GRAY SANDSTONE	3.0	38.0	
389.2	MATTOON		SANDY SHALE	11.0	41.0	
378.2	MATTOON		GRAY SHALE	7.0	52.0	
371.2	MATTOON		DARK SHALE	6.3	59.0	
364.9	MATTOON	KEENSBURG	COAL	0.7	65.3	FAIR
364.2	MATTOON		GRAY SHALE	4.5	66.0	
359.7	MATTOON		LIMESTONE	4.0	70.5	
355.7	MATTOON		SANDY SHALE	35.8	74.5	
319.9	MATTOON	FRIENDSVILLE	COAL	2.8	110.3	FAIR
317.2	MATTOON		SANDSTONE/SHALE	3.8	113.0	
313.4	MATTOON		COAL	1.0	116.8	
312.4	BOND		GRAY SANDSTONE	3.7	117.8	
308.7	BOND		SHALE & SANDSTONE	41.5	121.5	HARD
267.2	BOND		GRAY SHALE	31.0	163.0	
236.2	BOND		BLACK SHALE	1.7	194.0	
234.5	BOND		GRAY SHALE	2.3	195.7	
232.2	BOND		COAL	0.8	198.0	FAIR WITT?
231.4	BOND		UNDERCLAY	5.2	198.8	
226.2	BOND		LIMESTONE	3.0	204.0	
223.2	BOND		SANDY SHALE	16.0	207.0	
207.2	BOND		DARK SHALE	16.5	223.0	
190.7	BOND		BLACK SHALE	4.3	239.5	
186.4	BOND		SHALE & SANDSTONE	50.2	243.8	
136.2	BOND		GRAY SANDSTONE	46.8	294.0	
89.4	BOND		LIMESTONE	4.2	340.8	
85.2			BLACK SHALE	2.0	345.0	
83.2			DARK SHALE	17.0	347.0	
66.2			SANDY SHALE	71.0	364.0	
-4.8			DARK SHALE	12.0	435.0	
-16.8			SHALE & SANDSTONE	16.0	447.0	
-32.8			GRAY SANDSTONE	49.5	463.0	
-82.3			LIMESTONE	5.3	512.5	
-87.6			SANDSTONE/SHALE	6.3	517.8	
-93.8			GRAY SANDSTONE	25.0	524.0	
-118.8			GRAY SHALE	12.0	549.0	
-130.8			SHALE & SANDSTONE	17.0	561.0	

MAPID: 18590187000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 45' S line, 79' W line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.849812 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.34858 DATE COLLECTED: 3 / 12 / 1970

SURFACE ELEVATION (FT.): 432.5 LOGGED (FT.): 438.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AST2-8 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.5	PLEISTOCENE		SANDY CLAY	9.0	0.0	
423.5	PLEISTOCENE		CLAY	26.0	9.0	
397.5	MATTOON		GRAY SHALE	70.8	35.0	
326.7	MATTOON	FRIENDSVILLE	COAL	1.3	105.8	
325.5	BOND		UNDERCLAY	4.0	107.0	
321.5	BOND		LIMESTONE	1.0	111.0	
320.5	BOND		SHALE & SANDSTONE	31.0	112.0	
289.5	BOND		BLACK SHALE	2.5	143.0	
287.0	BOND		GRAY SHALE	13.5	145.5	
273.5	BOND		SHALE & SANDSTONE	17.5	159.0	
256.0	BOND		LIMESTONE	1.0	176.5	
255.0	BOND		CALCAREOUS SHALE	7.5	177.5	
247.5	BOND		SANDSTONE/SHALE	29.0	185.0	
218.5	BOND		GRAY SANDSTONE	16.0	214.0	
202.5	BOND		SHALE & SANDSTONE	8.0	230.0	
194.5	BOND		LIMESTONE	1.0	238.0	
193.5	BOND		BLACK SHALE	2.0	239.0	
191.5	BOND		SANDSTONE/SHALE	13.0	241.0	
178.5	BOND		SANDSTONE/SHALE	4.0	254.0	GRAY
174.5	BOND		COAL	0.7	258.0	
173.8	BOND		SANDSTONE/SHALE	85.3	258.7	
88.5			COAL	2.0	344.0	
86.5			UNDERCLAY	2.0	346.0	
84.5			GRAY SHALE	7.5	348.0	
77.0			LIMESTONE	1.5	355.5	
75.5			GRAY SANDSTONE	27.0	357.0	
48.5			GRAY SHALE	4.0	384.0	
44.5			GRAY SANDSTONE	21.7	388.0	
22.8			LIMESTONE	7.3	409.7	
15.5			SHALE & SANDSTONE	11.5	417.0	
4.0			GRAY SHALE	10.0	428.5	

MAPID: 18590188000C VERSION: 1 PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 502' S line, 197' W line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853962 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.34989 DATE COLLECTED: 4 / 12 / 1971

SURFACE ELEVATION (FT.): 421.4 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE P1 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.4	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
415.4	PLEISTOCENE		UNCONSOLIDATED	29.5	6.0	
385.9			GRAY SHALE	2.5	35.5	
383.4			COAL	1.4	38.0	HARD RASHY
382.0			UNDERCLAY	3.6	39.4	
378.4			COAL	0.2	43.0	FAIR
378.2			UNDERCLAY	0.4	43.2	
377.8			LIMESTONE	2.6	43.6	BROKEN, WHITE

MAPID: 18590189000C VERSION: 1 PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 482' S line, 295' W line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853623 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.349833 DATE COLLECTED: 4 / 14 / 1971

SURFACE ELEVATION (FT.): 421.5 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE P2 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.5	PLEISTOCENE		SANDY CLAY	6.0	0.0	
415.5	PLEISTOCENE		UNCONSOLIDATED	22.0	6.0	

MAPID: 18590190000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 463' S line, 393' W line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.853281 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349776 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 421.7 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P3 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.7	PLEISTOCENE		SANDY CLAY	8.0	0.0	
413.7	PLEISTOCENE		UNCONSOLIDATED	27.4	8.0	
386.3			GRAY SHALE	7.1	35.4	
379.2			COAL	1.0	42.5	FAIR
378.2			UNDERCLAY	3.0	43.5	
375.2			COAL	0.5	46.5	FAIR
374.7			UNDERCLAY	0.5	47.0	
374.2			LIMESTONE	3.8	47.5	WHITE
370.4			SHALE & SANDSTONE	6.8	51.3	

MAPID: 18590191000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 481' S line, 316' W line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.853549 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349829 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 421.5 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P4 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.5	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
416.5	PLEISTOCENE		UNCONSOLIDATED	30.4	5.0	
386.1			GRAY SHALE	2.6	35.4	

MAPID: 18590192000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 372' S line, 1210' W line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.845856 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349421 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 425.5 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P5 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.5	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
421.5	PLEISTOCENE		SANDY CLAY	4.0	4.0	
417.5	PLEISTOCENE		UNCONSOLIDATED	24.0	8.0	

MAPID: 18590193000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 243' S line, 1490' W line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.844886 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349053 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 430.8 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P6 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.8	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
425.8	PLEISTOCENE		SANDY CLAY	4.0	5.0	
421.8	PLEISTOCENE		UNCONSOLIDATED	19.0	9.0	

MAPID: 18590194000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 262' S line, 186' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844853 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349105 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 446.3 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P7 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
446.3	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
440.3	PLEISTOCENE		SANDY CLAY	12.0	6.0	BROWN
428.3	PLEISTOCENE		SANDY CLAY	10.0	18.0	

MAPID: 18590195000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.843179 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.350219 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 442.1 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE PH10 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
442.1	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
435.1	PLEISTOCENE		CLAY	18.0	7.0	
417.1			SHALE	3.0	25.0	

MAPID: 18590196000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 978' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.842087 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349253 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 34.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE PH12 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
423.0	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
417.0	PLEISTOCENE		CLAY	8.0	6.0
409.0	PLEISTOCENE		CLAY	19.0	14.0
390.0			SHALE	1.0	33.0

MAPID: 18590197000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 535' S line, 785' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.842747 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349826 DATE COLLECTED: 4 / 14 / 1971
SURFACE ELEVATION (FT.): 427.1 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE PH13 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
427.1	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
421.1	PLEISTOCENE		CLAY	30.0	6.0
391.1			SHALE	1.0	36.0

MAPID: 18590198000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 738' S line, 873' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.842425 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.350379 DATE COLLECTED: 7 / 14 / 1971
SURFACE ELEVATION (FT.): 422.6 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P14 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
422.6	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
416.6	PLEISTOCENE		CLAY	9.0	6.0
407.6	PLEISTOCENE		CLAY	23.0	15.0
384.6			SHALE	2.0	38.0

MAPID: 18590199000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 259' S line, 41' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.845358 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349104 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 443.7 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P15 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.7	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
435.7	PLEISTOCENE		CLAY	2.0	8.0
433.7	PLEISTOCENE		SANDY CLAY	17.2	10.0
416.5			SANDY SHALE	0.8	27.2

MAPID: 18590200000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 259' S line, 341' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.84431 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349089 DATE COLLECTED: 4 / 21 / 1971
SURFACE ELEVATION (FT.): 443.5 LOGGED (FT.): 23.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P16 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.5	PLEISTOCENE		UNCONSOLIDATED	7.5	0.0
436.0	PLEISTOCENE		CLAY	14.5	7.5
421.5			SANDY SHALE	1.0	22.0

MAPID: 18590201000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 359' S line, 191' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844829 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349373 DATE COLLECTED: 4 / 19 / 1971
SURFACE ELEVATION (FT.): LOGGED (FT.): 25.5 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P17 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
-	PLEISTOCENE		CLAY	18.5	6.0
-			SANDY SHALE	1.0	24.5

MAPID: 18590202000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 459' S line, 191' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844823 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349646 DATE COLLECTED: 4 / 19 / 1971
SURFACE ELEVATION (FT.): 442.5 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P18 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
442.5	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
436.5	PLEISTOCENE		CLAY	19.0	6.0
417.5			SANDY SHALE	1.0	25.0

MAPID: 18590203000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 559' S line, 191' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844817 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349922 DATE COLLECTED: 4 / 19 / 1971
SURFACE ELEVATION (FT.): 445.5 LOGGED (FT.): 28.5 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P19 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
445.5	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
439.5	PLEISTOCENE		SAND	21.5	6.0
418.0			SANDY SHALE	1.0	27.5

MAPID: 18590204000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 659' S line, 191' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.84481 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.350195 DATE COLLECTED: 4 / 19 / 1971
SURFACE ELEVATION (FT.): 439.1 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P20 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
439.1	PLEISTOCENE		SANDY CLAY	6.0	0.0
433.1	PLEISTOCENE		CLAY	18.0	6.0
415.1			SANDY SHALE	1.0	24.0

MAPID: 18590205000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 854' S line, 191' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844798 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.350731 DATE COLLECTED: 4 / 19 / 1971
SURFACE ELEVATION (FT.): 431.9 LOGGED (FT.): 23.5 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P21 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
431.9	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
425.9	PLEISTOCENE		CLAY	6.0	6.0
419.9	PLEISTOCENE		CLAY	10.5	12.0
409.4			SANDY SHALE	1.0	22.5

MAPID: 18590206000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1059' S line, 191' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844785 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.351294 DATE COLLECTED: 4 / 19 / 1971
SURFACE ELEVATION (FT.): 425.7 LOGGED (FT.): 24.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P22 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
425.7	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
419.7	PLEISTOCENE		CLAY	9.0	6.0
410.7	PLEISTOCENE		CLAY	8.0	15.0
402.7			GRAY SHALE	1.0	23.0

MAPID: 18590207000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 359' S line, 341' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844304 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349365 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 441.9 LOGGED (FT.): 21.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P23 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
441.9	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
433.9	PLEISTOCENE		CLAY	12.5	8.0
421.4			SANDY SHALE	0.5	20.5

MAPID: 18590208000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 459' S line, 341' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844297 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349639 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 439.9 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P24 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
439.9	PLEISTOCENE		UNCONSOLIDATED	19.0	0.0
420.9	PLEISTOCENE		CLAY	2.5	19.0
418.4			SANDY SHALE	0.5	21.5

MAPID: 18590209000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 559' S line, 341' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844291 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349915 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 443.8 LOGGED (FT.): 29.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P25 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.8	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
428.8	PLEISTOCENE		CLAY	13.7	15.0
415.1			SANDY SHALE	0.3	28.7

MAPID: 18590210000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 659' S line, 341' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844285 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.350188 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 443.5 LOGGED (FT.): 29.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P26 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.5	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0
436.5	PLEISTOCENE		SAND	7.0	7.0
429.5	PLEISTOCENE		CLAY	14.0	14.0
415.5			SANDY SHALE	1.0	28.0

MAPID: 18590211000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 359' S line, 41' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.845352 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.34938 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 442.6 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P27 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
442.6	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
436.6	PLEISTOCENE		SANDY CLAY	19.9	6.0
416.7			SANDY SHALE	0.3	25.9

MAPID: 18590212000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 459' S line, 41' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.845345 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349654 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P28 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
442.0	PLEISTOCENE		UNCONSOLIDATED	7.6	0.0
434.4	PLEISTOCENE		CLAY	10.0	7.6
424.4	PLEISTOCENE		SANDY CLAY	7.4	17.6
417.0			SANDY SHALE	1.0	25.0

MAPID: 18590213000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 560' S line, 26' E line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.84557 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349933 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 442.2 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P29 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
442.2	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
434.2	PLEISTOCENE		SAND	4.0	8.0
430.2	PLEISTOCENE		CLAY	18.6	12.0
411.6			SANDY SHALE	0.6	30.6

MAPID: 18590214000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 659' S line, 20' E line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.845543 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.350206 DATE COLLECTED: 4 / 20 / 1971
SURFACE ELEVATION (FT.): 440.1 LOGGED (FT.): 33.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P31 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
440.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
432.1	PLEISTOCENE		SAND	7.6	8.0
424.5	PLEISTOCENE		CLAY	17.2	15.6
407.3			SANDY SHALE	0.4	32.8

MAPID: 18590215000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 475' S line, 509' E line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847262 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349725 DATE COLLECTED: 4 / 21 / 1971
SURFACE ELEVATION (FT.): 432.8 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P31 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
432.8	PLEISTOCENE		SANDY CLAY	6.0	0.0
426.8	PLEISTOCENE		SAND	9.0	6.0
417.8	PLEISTOCENE		CLAY	15.7	15.0
402.1			SANDY SHALE	1.5	30.7

MAPID: 18590216000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 525' S line, 509' E line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847258 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349861 DATE COLLECTED: 4 / 21 / 1971
SURFACE ELEVATION (FT.): 430.6 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P32 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
430.6	PLEISTOCENE		SANDY CLAY	7.6	0.0
423.0	PLEISTOCENE		SAND	8.0	7.6
415.0	PLEISTOCENE		CLAY	20.7	15.6
394.3			SANDY SHALE	0.9	36.3

MAPID: 18590217000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 10

QUARTERS/FOOTAGES: 575' S line, 509' E line of SE SW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.847255

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.349999

DATE COLLECTED: 4 / 21 / 1971

SURFACE ELEVATION (FT.): 428.9

LOGGED (FT.): 38.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE

P33

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.9	PLEISTOCENE		SANDY CLAY	8.6	0.0	
420.3	PLEISTOCENE		CLAY	1.4	8.6	BROWN
418.9	PLEISTOCENE		CLAY	17.0	10.0	GRAY
401.9	PLEISTOCENE		CLAY	10.5	27.0	
391.4			SANDY SHALE	0.7	37.5	

MAPID: 18590218000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 10

QUARTERS/FOOTAGES: 425' S line, 509' E line of SE SW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.847265

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.349587

DATE COLLECTED: 4 / 21 / 1971

SURFACE ELEVATION (FT.): 434.5

LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE

P34

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.5	PLEISTOCENE		SANDY CLAY	8.5	0.0	
426.0	PLEISTOCENE		SAND	6.0	8.5	
420.0	PLEISTOCENE		CLAY	14.5	14.5	
405.5			SANDY SHALE	1.0	29.0	

MAPID: 18590219000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 5 / 7 / 1973

SURFACE ELEVATION (FT.): 424.5 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE SCALE 1

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
424.5	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	FILL
417.5	PLEISTOCENE		SAND	6.5	7.0	
411.0	PLEISTOCENE		CLAY	10.5	13.5	BROWN
400.5	PLEISTOCENE		CLAY	22.0	24.0	GRAY
378.5	PLEISTOCENE		UNCONSOLIDATED	0.6	46.0	
377.9	PLEISTOCENE		CLAY	0.4	46.6	BOULD
377.5	PLEISTOCENE		UNCONSOLIDATED	1.7	47.0	
375.8			SANDY SHALE	5.3	48.7	
370.5			GRAY SHALE	4.0	54.0	

MAPID: 18590220000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.838474

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.353851

DATE COLLECTED: 10 / 16 / 1992

SURFACE ELEVATION (FT.): 416.2 LOGGED (FT.): 33.8

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE OBSW16

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
416.2	PLEISTOCENE		CLAY	6.0	0.0	
410.2	PLEISTOCENE		SAND	4.0	6.0	
406.2	PLEISTOCENE		SILT	4.0	10.0	
402.2	PLEISTOCENE		SAND	7.0	14.0	
395.2	PLEISTOCENE		SILTY CLAY	12.5	21.0	
382.7	PLEISTOCENE		UNKNOWN	0.3	33.5	LOST CORE

MAPID: 18590221000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.838474 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.353851 DATE COLLECTED: 10 / 14 / 1992
SURFACE ELEVATION (FT.): 444.2 LOGGED (FT.): 32.3 LOG TYPE: Drillers Log
SOURCE: AMAX OBSW17 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
444.2	PLEISTOCENE		SAND	16.5	0.0
427.7	PLEISTOCENE		UNKNOWN	4.5	16.5
423.2	PLEISTOCENE		SILTY CLAY	7.0	21.0
416.2			UNKNOWN	3.0	28.0
413.2			SILTY SANDSTONE	1.3	31.0

MAPID: 18590222000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.838474 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.353851 DATE COLLECTED: 10 / 15 / 1992
SURFACE ELEVATION (FT.): 420.8 LOGGED (FT.): 31.4 LOG TYPE: Drillers Log
SOURCE: AMAX OBSW18 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
420.8	PLEISTOCENE		CLAY	4.0	0.0
416.8	PLEISTOCENE			8.0	4.0
408.8	PLEISTOCENE		SILT	4.0	12.0
404.8	PLEISTOCENE		UNKNOWN	5.0	16.0
399.8	PLEISTOCENE		SILTY CLAY	7.0	21.0
392.8			UNKNOWN	3.0	28.0
389.8			SILTY SHALE	1.4	31.0

MAPID: 18590223000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.843083 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.353926 DATE COLLECTED: 10 / 20 / 1992

SURFACE ELEVATION (FT.): 410.9 LOGGED (FT.): 43.5 LOG TYPE: Drillers Log

SOURCE: AMAX OBSW19 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
410.9	PLEISTOCENE		SILTY CLAY	4.0	0.0
406.9	PLEISTOCENE		SAND	4.3	4.0
402.6	PLEISTOCENE		SILT	2.2	8.3
400.4	PLEISTOCENE		SILTY CLAY	5.5	10.5
394.9	PLEISTOCENE		UNKNOWN	5.0	16.0
389.9	PLEISTOCENE		SILTY CLAY	2.0	21.0
387.9	PLEISTOCENE		UNKNOWN	3.0	23.0
384.9	PLEISTOCENE		SAND	2.0	26.0
382.9	PLEISTOCENE		UNKNOWN	3.0	28.0
379.9	PLEISTOCENE		SILTY CLAY	7.0	31.0
372.9	PLEISTOCENE		SAND	5.5	38.0

MAPID: 18590224000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.847692 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.354 DATE COLLECTED: 10 / 21 / 1992

SURFACE ELEVATION (FT.): 413.9 LOGGED (FT.): 36.8 LOG TYPE: Drillers Log

SOURCE: AMAX OBSW20 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
413.9	PLEISTOCENE		SILTY CLAY	6.0	0.0
407.9	PLEISTOCENE		SAND	4.0	6.0
403.9	PLEISTOCENE			2.0	10.0
401.9	PLEISTOCENE		SAND	2.5	12.0
399.4	PLEISTOCENE		SILTY CLAY	2.0	14.5
397.4	PLEISTOCENE		UNKNOWN	4.5	16.5
392.9	PLEISTOCENE		SILTY CLAY	15.0	21.0
377.9			GRAY SHALE	0.8	36.0

MAPID: 18590225000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 2169' N line, 1266' E line of SW
 QUADRANGLE: KEENSBURG LONGITUDE: -87.849897 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 38.34994 DATE COLLECTED: 5 / 18 / 1983
 SURFACE ELEVATION (FT.): 425.2 LOGGED (FT.): 25.5 LOG TYPE: Drillers Log
 SOURCE: AMAX OVB8 WELL TYPE: Coal Test
 COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.2	PLEISTOCENE		SILTY CLAY	5.0	0.0	
420.2	PLEISTOCENE		SAND	8.0	5.0	
412.2	PLEISTOCENE		SILT	2.0	13.0	
410.2	PLEISTOCENE		SILTY CLAY	10.0	15.0	ORGANIE ZONE
400.2			SHALE	0.5	25.0	

MAPID: 18590226000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1376' N line, 922' E line of SW
 QUADRANGLE: KEENSBURG LONGITUDE: -87.848648 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 38.352098 DATE COLLECTED: 5 / 19 / 1983
 SURFACE ELEVATION (FT.): 418.8 LOGGED (FT.): 36.0 LOG TYPE: Drillers Log
 SOURCE: AMAX OVB9 WELL TYPE: Coal Test
 COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.8	PLEISTOCENE		SOIL	2.5	0.0	
416.3	PLEISTOCENE		SILTY CLAY	2.5	2.5	
413.8	PLEISTOCENE		SAND	6.0	5.0	
407.8	PLEISTOCENE		SOIL	5.0	11.0	
402.8	PLEISTOCENE		SAND	20.0	16.0	

MAPID: 18590227000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1983' N line, 887' E line of SW
 QUADRANGLE: KEENSBURG LONGITUDE: -87.848564 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 38.350429 DATE COLLECTED: 5 / 18 / 1983
 SURFACE ELEVATION (FT.): 425.8 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log
 SOURCE: AMAX OVB10 WELL TYPE: Coal Test
 COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.8	PLEISTOCENE		SILTY CLAY	5.0	0.0	
420.8	PLEISTOCENE		SAND	9.0	5.0	
411.8	PLEISTOCENE		CLAY	12.0	14.0	
399.8	PLEISTOCENE		SANDY CLAY	3.0	26.0	
396.8			SHALE	3.0	29.0	

MAPID: 18590228000C VERSION: 1 PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1526' N line, 137' E line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.84592 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.351639 DATE COLLECTED: 5 / 17 / 1983

SURFACE ELEVATION (FT.): 426.8 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log

SOURCE: AMAX OVB11 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.8	PLEISTOCENE		UNCONSOLIDATED	2.5	0.0	WITH COAL & SHALE
424.3	PLEISTOCENE		SILTY CLAY	5.0	2.5	
419.3	PLEISTOCENE		SAND	2.0	7.5	
417.3	PLEISTOCENE		SILTY CLAY	15.5	9.5	

MAPID: 18590229000C VERSION: 1 PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 2637' N line, 1440' E line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.850533 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.348665 DATE COLLECTED: 5 / 19 / 1983

SURFACE ELEVATION (FT.): 430.3 LOGGED (FT.): 36.1 LOG TYPE: Drillers Log

SOURCE: AMAX OVB12 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.3	PLEISTOCENE		SILTY CLAY	3.0	0.0	
427.3	PLEISTOCENE		SAND	9.0	3.0	BROWN
418.3	PLEISTOCENE		SAND	1.0	12.0	GRAY
417.3	PLEISTOCENE		SILTY CLAY	23.0	13.0	
394.3			SHALE	0.1	36.0	

MAPID: 18590230000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 1390' N line, 610' E line of SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847559 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.352041 DATE COLLECTED: 5 / 19 / 1983
SURFACE ELEVATION (FT.): 421.4 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log
SOURCE: AMAX OVB13 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.4	PLEISTOCENE		SILTY CLAY	5.0	0.0	
416.4	PLEISTOCENE		SAND	2.0	5.0	BROWN
414.4	PLEISTOCENE		SAND	4.0	7.0	GRAY
410.4	PLEISTOCENE		SILT	5.0	11.0	
405.4	PLEISTOCENE		SAND	6.0	16.0	
399.4	PLEISTOCENE		SILTY CLAY	9.0	22.0	
390.4			GRAY SHALE	4.0	31.0	

MAPID: 18590231000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: SE SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.83748 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.349209 DATE COLLECTED: 6 / 24 / 1982
SURFACE ELEVATION (FT.): 406.4 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log
SOURCE: AMAX OVB14 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
406.4	PLEISTOCENE		SANDY CLAY	26.0	0.0	
380.4	PLEISTOCENE		SAND	16.0	26.0	
364.4			GRAY SHALE	10.0	42.0	

MAPID: 18590232000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: NE SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.837416 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.351058 DATE COLLECTED: 6 / 25 / 1982
SURFACE ELEVATION (FT.): 425.8 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log
SOURCE: AMAX OVB15 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.8	PLEISTOCENE		CLAY	11.0	0.0	
414.8	PLEISTOCENE		SANDY CLAY	7.0	11.0	
407.8	PLEISTOCENE		CLAY	11.8	18.0	
396.0			GRAY SHALE	1.2	29.8	

MAPID: 18590233000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 180' N line, 237' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844616 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.351601 DATE COLLECTED: 9 / 14 / 1983
SURFACE ELEVATION (FT.): 426.5 LOGGED (FT.): 54.1 LOG TYPE: Drillers Log
SOURCE: AMAX CC2005 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.5	PLEISTOCENE		UNCONSOLIDATED	1.5	0.0	
425.0	PLEISTOCENE		SHALE	4.5	1.5	
420.5	PLEISTOCENE		CLAYSTONE & SILTSTONE	5.0	6.0	
415.5	PLEISTOCENE		SANDY CLAYSTONE	12.0	11.0	
403.5	PLEISTOCENE		CLAYSTONE & SILTSTONE	19.0	23.0	
384.5			SILTSTONE	12.0	42.0	

MAPID: 18590234000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 145' N line, 97' W line of NW SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.845101 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.351705 DATE COLLECTED: 9 / 14 / 1983
SURFACE ELEVATION (FT.): 427.2 LOGGED (FT.): 49.8 LOG TYPE: Drillers Log
SOURCE: AMAX CC2006 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
427.2	PLEISTOCENE		UNCONSOLIDATED	2.0	0.0	SAND
425.2	PLEISTOCENE		SHALE	4.0	2.0	
421.2	PLEISTOCENE		CLAYSTONE & SILTSTONE	7.0	6.0	SILTY
414.2	PLEISTOCENE		CLAYSTONE & SILTSTONE	7.0	13.0	SILTY BROWN
407.2	PLEISTOCENE		CONGLOMERATE	9.5	20.0	
397.7			UNKNOWN	1.5	29.5	
396.2			SANDSTONE	8.9	31.0	
387.3			SANDSTONE	2.4	39.9	
384.9			SILTSTONE	4.7	42.3	SANDY
380.2			SILTSTONE	2.6	47.0	
377.6			UNKNOWN	0.1	49.6	LOST

MAPID: 18590235000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES: 295' N line, 325' E line of NW SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844287 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.351279 DATE COLLECTED: 9 / 15 / 1983
SURFACE ELEVATION (FT.): 428.1 LOGGED (FT.): 0.0 LOG TYPE: Drillers Log
SOURCE: AMAX CC2007 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.1	PLEISTOCENE		CLAY	14.0	0.0	
414.1	PLEISTOCENE		SANDY CLAY	8.0	14.0	
406.1	PLEISTOCENE		CLAY	6.0	22.0	
400.1			SILTSTONE	5.6	28.0	
394.5			UNKNOWN	1.3	33.6	LOST
393.2			SILTSTONE	0.1	34.9	
393.1			CLAYSTONE	0.3	35.0	
392.8				8.6	35.3	

MAPID: 18590236000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:
QUADRANGLE: KEENSBURG LONGITUDE: -87.845346 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.35582 DATE COLLECTED: 7 / 12 / 1991
SURFACE ELEVATION (FT.): 426.9 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
SOURCE: AMAX PREP53 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.9	PLEISTOCENE		SILTY CLAY	11.0	0.0	
415.9	PLEISTOCENE		SANDY CLAY	1.5	11.0	
414.4	PLEISTOCENE		UNCONSOLIDATED	16.0	12.5	
398.4	PLEISTOCENE		CLAY	1.5	28.5	
396.9			SHALE	15.0	30.0	

MAPID: 18590237000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 16 / 1991

SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 52.4

LOG TYPE: Drillers Log

SOURCE: AMAX PREP56

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.0	PLEISTOCENE		SILTY CLAY	6.0	0.0	
420.0	PLEISTOCENE		SAND/CLAY	1.5	6.0	
418.5	PLEISTOCENE		SAND	6.0	7.5	
412.5	PLEISTOCENE		UNCONSOLIDATED	15.0	13.5	
397.5	PLEISTOCENE		SILTY CLAY	10.0	28.5	
387.5			SILTY SHALE	1.5	38.5	
386.0			SANDY SHALE	2.4	40.0	
383.6			SANDSTONE	7.9	42.4	
375.7			SILTY SHALE	2.1	50.3	

MAPID: 18590238000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 15 / 1991

SURFACE ELEVATION (FT.): 427.2 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: AMAX PREP58

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
427.2	PLEISTOCENE		CLAY	7.5	0.0	WITH SIDERITE NODULES
419.7	PLEISTOCENE		UNCONSOLIDATED	7.5	7.5	
412.2			SILTY SHALE	15.0	15.0	W/ SIDERITE NODULES
397.2			UNKNOWN	4.7	30.0	LOST
392.5			SHALE	5.2	34.7	
387.3			SILTSTONE	4.2	39.9	
383.1			SILTY SHALE	2.9	44.1	

MAPID: 18590239000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 12 / 1991

SURFACE ELEVATION (FT.): 427.6 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: AMAX PREP60

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
427.6	PLEISTOCENE		UNKNOWN	4.5	0.0	
423.1	PLEISTOCENE		CLAY	3.5	4.5	
419.6	PLEISTOCENE		SAND	2.0	8.0	
417.6	PLEISTOCENE		UNCONSOLIDATED	10.0	10.0	
407.6	PLEISTOCENE		SILTY CLAY	5.0	20.0	
402.6			SHALE	14.7	25.0	
387.9			SANDSTONE	2.6	39.7	
385.3			SILTY SHALE	9.7	42.3	

MAPID: 18590240000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 11 / 1991

SURFACE ELEVATION (FT.): 428.7 LOGGED (FT.): 43.1

LOG TYPE: Drillers Log

SOURCE: AMAX PREP61

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.7	PLEISTOCENE			2.0	0.0	AND COAL
426.7	PLEISTOCENE		CLAY	3.0	2.0	AND COAL
423.7	PLEISTOCENE		SILTY CLAY	8.5	5.0	
415.2	PLEISTOCENE		UNCONSOLIDATED	15.0	13.5	
400.2	PLEISTOCENE		SILTY CLAY	1.5	28.5	
398.7			SHALE	6.4	30.0	
392.3			SANDSTONE	1.8	36.4	
390.5			SHALE	4.9	38.2	

MAPID: 18590241000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 11 / 1991

SURFACE ELEVATION (FT.): 428.5 LOGGED (FT.): 40.4

LOG TYPE: Drillers Log

SOURCE: AMAX PREP62

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.5	PLEISTOCENE		UNKNOWN	3.5	0.0	WITH COAL
425.0	PLEISTOCENE		CLAY	1.5	3.5	
423.5	PLEISTOCENE		SILTY CLAY	15.0	5.0	
408.5	PLEISTOCENE		UNCONSOLIDATED	6.0	20.0	
402.5			SANDSTONE	4.5	26.0	
398.0			SHALE	9.9	30.5	

MAPID: 18590242000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 16 / 1991

SURFACE ELEVATION (FT.): 434.7 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: AMAX PREP64

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.7	PLEISTOCENE		SILTY CLAY	11.0	0.0	
423.7	PLEISTOCENE		SAND	1.5	11.0	
422.2	PLEISTOCENE		UNCONSOLIDATED	11.0	12.5	
411.2	PLEISTOCENE		CLAY	1.5	23.5	
409.7			SILTY SHALE	25.0	25.0	

MAPID: 18590243000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.35582

DATE COLLECTED: 7 / 15 / 1991

SURFACE ELEVATION (FT.): 436.4 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: AMAX PREP65

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
436.4	PLEISTOCENE		SILTY CLAY	11.0	0.0
425.4	PLEISTOCENE		UNCONSOLIDATED	12.5	11.0
412.9			SANDY SHALE	6.5	23.5
406.4			SANDSTONE	2.1	30.0
404.3			SHALE & SANDSTONE	11.9	32.1

MAPID: 18500115000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.832679

GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.354693

DATE COLLECTED:

SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 2356.0

LOG TYPE:

SOURCE: MARVEL OIL

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
25.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	399.0
-204.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	628.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1932.0		BASE BARLOW	LIMESTONE	-	2356.0

MAPID: 18500203000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 660' N line, 330' W line of SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.825777

GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.353668

DATE COLLECTED:

SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 2660.0

LOG TYPE:

SOURCE: MARVEL OIL

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	399.0
-180.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	627.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1919.0		BASE BARLOW	LIMESTONE	-	2366.0
-2213.0	RENAULT	BASE RENAULT	LIMESTONE	-	2660.0

MAPID: 18501022000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.828062 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.354618 DATE COLLECTED:
SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 2668.0 LOG TYPE:
SOURCE: MYERS J O MILLER H O WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
35.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	412.0
-200.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	647.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1931.0		BASE BARLOW	LIMESTONE	-	2378.0
-2221.0	RENAULT	BASE RENAULT	LIMESTONE	-	2668.0

MAPID: 18501023000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.825854 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.350971 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 2660.0 LOG TYPE:
SOURCE: WILSON R E WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	390.0
-183.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	626.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1920.0		BASE BARLOW	LIMESTONE	-	2363.0
-2217.0	RENAULT	BASE RENAULT	LIMESTONE	-	2660.0

MAPID: 18501023000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.825854 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.350971 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 2785.0 LOG TYPE: Electric Log
SOURCE: WILSON R E WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-181.0	CARBONDALE	HERRIN	COAL	3.0	624.0
-237.0	CARBONDALE	BRIAR HILL	COAL	-	680.0
-319.0	CARBONDALE	SPRINGFIELD	COAL	11.0	762.0
-411.0	CARBONDALE	HOUCHIN CREEK	COAL	-	854.0

MAPID: 18501024000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.825696 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.3564 DATE COLLECTED:
SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 2672.0 LOG TYPE:
SOURCE: MYERS J W MILLER H C WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	388.0
-181.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	620.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1915.0		BASE BARLOW	LIMESTONE	-	2354.0
-2233.0	RENAULT	BASE RENAULT	LIMESTONE	-	2672.0

MAPID: 18501677000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 718' S line, 785' E line
QUADRANGLE: KEENSBURG LONGITUDE: -87.820476 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.352461 DATE COLLECTED:
SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 549.0 LOG TYPE:
SOURCE: LYNCH OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
75.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	316.0
-158.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	549.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18504688000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 428' W line of SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.825569 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.349064 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 1638.0 LOG TYPE:
SOURCE: LYNCH OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
73.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	314.0
-159.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	546.0
-1251.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1638.0

MAPID: 18504690000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 1330' S line, 880' E line
QUADRANGLE: KEENSBURG LONGITUDE: -87.82077 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.354106 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 1620.0 LOG TYPE:
SOURCE: LYNCH OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
70.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	317.0
-162.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	549.0
-1233.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1620.0

MAPID: 18504691000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 163' S line, 680' W line of SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.824697 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.348593 DATE COLLECTED:
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 554.0 LOG TYPE:
SOURCE: LYNCH OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
75.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	324.0
-155.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	554.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18505178000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW NE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.830426 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.352796 DATE COLLECTED:
SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2653.0 LOG TYPE:
SOURCE: VANCE M L WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
33.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	395.0
-197.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	625.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1925.0		BASE BARLOW	LIMESTONE	-	2353.0
-2225.0	RENAULT	BASE RENAULT	LIMESTONE	-	2653.0

MAPID: 18526549000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 11 QUARTERS/FOOTAGES: NE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.829244 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.353707 DATE COLLECTED: 11 / 9 / 1977

SURFACE ELEVATION (FT.): 438.7 LOGGED (FT.): 795.8 LOG TYPE: Drillers Log

SOURCE: AMAX T2-196 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
438.7			CLAY	15.0	0.0
423.7			UNCONSOLIDATED	13.0	15.0
410.7			SOFT SHALE	31.0	28.0
379.7			HARD SHALE	14.0	59.0
365.7			GRAY SHALE	47.0	73.0
318.7			DARK SHALE	1.0	120.0
317.7			LIMESTONE	2.0	121.0
315.7			CALCAREOUS SHALE	26.0	123.0
289.7			SANDY SHALE	10.0	149.0
279.7			GRAY SHALE	40.0	159.0
239.7			CALCAREOUS SHALE	39.0	199.0
200.7			BLACK SHALE	2.0	238.0
198.7	MODESTO	CHAPEL	COAL	3.0	240.0
195.7			GRAY SHALE	153.0	243.0
42.7			CALCAREOUS SHALE	1.0	396.0
41.7			LIMESTONE	4.0	397.0
37.7			CALCAREOUS SHALE	20.0	401.0
17.7			SHALE	148.0	421.0 LT GRAY
-130.3	CARBONDALE	DANVILLE	COAL	3.0	569.0
-133.3			SHALE	31.0	572.0
-164.3			CALCAREOUS SHALE	7.0	603.0
-171.3			SHALE	10.0	610.0
-181.3			CALCAREOUS SHALE	10.0	620.0
-191.3	CARBONDALE	HERRIN	COAL	4.0	630.0
-195.3			SHALE	125.0	634.0
-320.3	CARBONDALE	SPRINGFIELD	COAL	7.0	759.0
-327.3			UNDERCLAY	1.0	766.0
-328.3			SHALE	12.0	767.0
-340.3	CARBONDALE	SPRINGFIELD	COAL	2.0	779.0
-342.3			UNDERCLAY	1.0	781.0
-343.3			SHALE	13.8	782.0

MAPID: 18501278000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 12

QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG

LONGITUDE: -87.814406

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.357061

DATE COLLECTED:

SURFACE ELEVATION (FT.): 390.0

LOGGED (FT.): 2755.0

LOG TYPE: Electric Log

SOURCE: HELDT, FREDERICK

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-165.0	CARBONDALE	HERRIN	COAL	2.0	555.0	
-230.0	CARBONDALE	BRIAR HILL	COAL	-	620.0	
-302.0	CARBONDALE	SPRINGFIELD	COAL	10.0	692.0	
-400.0	CARBONDALE	HOUCHIN CREEK	COAL	-	790.0	

MAPID: 18590244000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 12 QUARTERS/FOOTAGES: 300' S line, 140' W line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.81701 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.359844 DATE COLLECTED: 6 / 11 / 1980

SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 800.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-240 WELL TYPE: Coal Test

COMMENT: WABASH BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
386.0	PLEISTOCENE		SILT	2.0	0.0
384.0	PLEISTOCENE		CLAY	3.0	2.0
381.0	PLEISTOCENE		SAND	11.0	5.0
370.0	PLEISTOCENE			2.0	16.0
368.0	PLEISTOCENE		CLAY	3.0	18.0
365.0			SANDY SHALE	10.5	21.0
354.5			BLACK SHALE	1.0	31.5
353.5			LIMESTONE	0.5	32.5
353.0			COAL	0.5	33.0
352.5			UNDERCLAY	1.5	33.5
351.0			SANDY SHALE	6.0	35.0
345.0			GRAY SHALE	9.0	41.0
336.0			SANDY SHALE	25.0	50.0
311.0			SANDSTONE	49.0	75.0
262.0			LIMESTONE	1.0	124.0
261.0			MICACEOUS SHALE	2.0	125.0
259.0			COAL	2.0	127.0
257.0			UNDERCLAY	1.0	129.0
256.0			MICACEOUS SHALE	2.0	130.0
254.0			LIMESTONE	3.0	132.0
251.0			GRAY SHALE	16.0	135.0
235.0			COAL	1.0	151.0
234.0			UNDERCLAY	1.0	152.0
233.0			SANDY SHALE	9.0	153.0
224.0			CALCAREOUS SANDSTONE	2.0	162.0
222.0			GRAY SHALE	16.0	164.0
206.0			SANDY SHALE	40.0	180.0
166.0			BLACK SHALE	3.0	220.0
163.0			COAL	0.5	223.0
162.5			UNDERCLAY	1.5	223.5
161.0			SANDY SHALE	65.0	225.0
96.0			DARK SHALE	15.0	290.0
81.0			COAL	2.0	305.0
79.0			UNDERCLAY	2.0	307.0
77.0			LIMESTONE	1.0	309.0
76.0			SANDSTONE	5.0	310.0
71.0	SHELBURN		LIMESTONE	5.0	315.0
66.0	SHELBURN		CALCAREOUS SHALE	20.0	320.0

46.0	SHELBURN		SANDY SHALE	30.0	340.0
16.0	SHELBURN		SANDSTONE	30.0	370.0
-14.0	SHELBURN		SANDY SHALE	100.0	400.0
-114.0	SHELBURN		GRAY SHALE	11.0	500.0
-125.0	SHELBURN	DANVILLE	COAL	2.0	511.0
-127.0	SHELBURN		UNDERCLAY	2.0	513.0
-129.0	SHELBURN		GRAY SHALE	15.0	515.0
-144.0	SHELBURN		LIMESTONE	2.0	530.0
-146.0	SHELBURN		GRAY SHALE	8.0	532.0
-154.0	SHELBURN	BRERETON	LIMESTONE	6.0	540.0
-160.0	CARBONDALE	HERRIN	COAL	4.0	546.0
-164.0	CARBONDALE		UNDERCLAY	2.0	550.0
-166.0	CARBONDALE		LIMESTONE	3.0	552.0
-169.0	CARBONDALE		SANDY SHALE	27.0	555.0
-196.0	CARBONDALE		LIMESTONE	3.0	582.0
-199.0	CARBONDALE		SANDY SHALE	17.0	585.0
-216.0	CARBONDALE		BLACK SHALE	1.0	602.0
-217.0	CARBONDALE	BRIAR HILL	COAL	2.0	603.0
-219.0	CARBONDALE		UNDERCLAY	1.0	605.0
-220.0	CARBONDALE		SANDY SHALE	70.5	606.0
-290.5	CARBONDALE		DARK SHALE	0.7	676.5
-291.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	677.2
-291.5	CARBONDALE	SPRINGFIELD	COAL	8.9	677.5
-300.4	CARBONDALE		UNDERCLAY	2.0	686.4
-302.4	CARBONDALE		SANDY SHALE	83.6	688.4
-386.0	CARBONDALE		LIMESTONE	2.0	772.0
-388.0	CARBONDALE		BLACK SHALE	3.0	774.0
-391.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	777.0
-394.0	CARBONDALE		UNDERCLAY	2.0	780.0
-396.0	CARBONDALE		BLACK SHALE	2.0	782.0
-398.0	CARBONDALE		COAL	2.0	784.0
-400.0	CARBONDALE		UNDERCLAY	2.0	786.0
-402.0	CARBONDALE		SANDY SHALE	4.0	788.0
-406.0	CARBONDALE		BLACK SHALE	0.5	792.0
-406.5	CARBONDALE		COAL	1.5	792.5
-408.0	CARBONDALE		UNDERCLAY	2.0	794.0
-410.0	CARBONDALE		SANDY SHALE	4.0	796.0

MAPID: 18590245000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 12 QUARTERS/FOOTAGES: 620' N line, 190' W line of SW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.816834 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.357318 DATE COLLECTED: 6 / 16 / 1980

SURFACE ELEVATION (FT.): 386.6 LOGGED (FT.): 819.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-241 WELL TYPE: Coal Test

COMMENT: WABASH BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.6	PLEISTOCENE		SILT	2.0	0.0	
384.6	PLEISTOCENE		CLAY	4.0	2.0	
380.6	PLEISTOCENE		SAND & GRAVEL	10.0	6.0	
370.6			SANDY SHALE	22.0	16.0	
348.6			BLACK SHALE	4.0	38.0	
344.6			GRAY SHALE	2.0	42.0	
342.6			SANDSTONE	6.0	44.0	
336.6			SANDY SHALE	55.0	50.0	
281.6			SANDSTONE	21.0	105.0	
260.6			COAL	2.0	126.0	
258.6			UNDERCLAY	1.0	128.0	
257.6			SANDY SHALE	6.0	129.0	
251.6			LIMESTONE	2.0	135.0	
249.6			BLACK SHALE	2.0	137.0	
247.6			COAL	0.5	139.0	
247.1			UNDERCLAY	1.5	139.5	
245.6			SANDY SHALE	171.0	141.0	
74.6			CALCAREOUS SANDSTONE	5.0	312.0	
69.6			LIMESTONE	8.0	317.0	
61.6	SHELBURN		SANDSTONE	5.0	325.0	
56.6	SHELBURN		CALCAREOUS SHALE	20.0	330.0	
36.6	SHELBURN		SANDY SHALE	160.0	350.0	
-123.4	SHELBURN	DANVILLE	COAL	4.0	510.0	
-127.4	SHELBURN		UNDERCLAY	2.0	514.0	
-129.4	SHELBURN		SANDY SHALE	9.0	516.0	
-138.4	SHELBURN		CALCAREOUS SHALE	5.0	525.0	
-143.4	SHELBURN		LIMESTONE	1.0	530.0	
-144.4	SHELBURN		SANDY SHALE	20.0	531.0	
-164.4	CARBONDALE	HERRIN	COAL	4.0	551.0	
-168.4	CARBONDALE		UNDERCLAY	2.0	555.0	
-170.4	CARBONDALE		LIMESTONE	2.0	557.0	
-172.4	CARBONDALE		SANDY SHALE	46.0	559.0	
-218.4	CARBONDALE		DARK SHALE	5.5	605.0	
-223.9	CARBONDALE	BRIAR HILL	COAL	1.0	610.5	
-224.9	CARBONDALE		UNDERCLAY	0.5	611.5	
-225.4	CARBONDALE		SANDY SHALE	75.1	612.0	
-300.5	CARBONDALE	SPRINGFIELD	COAL	0.9	687.1	UPPER
-301.4	CARBONDALE		SHALE	3.5	688.0	

-304.9	CARBONDALE	SPRINGFIELD	COAL	4.0	691.5	LOWER
-308.9	CARBONDALE		BLACK SHALE	0.4	695.5	
-309.3	CARBONDALE		UNDERCLAY	1.7	695.9	
-311.0	CARBONDALE		GRAY SHALE	7.0	697.6	
-318.0	CARBONDALE		SANDY SHALE	1.4	704.6	
-319.4	CARBONDALE		SHALY SANDSTONE	1.0	706.0	
-320.4	CARBONDALE		SANDY SHALE	23.0	707.0	
-343.4	CARBONDALE		LIMESTONE	2.0	730.0	
-345.4	CARBONDALE		SANDY SHALE	41.0	732.0	
-386.4	CARBONDALE		LIMESTONE	7.0	773.0	
-393.4	CARBONDALE		GRAY SHALE	1.5	780.0	
-394.9	CARBONDALE		BLACK SHALE	1.5	781.5	
-396.4	CARBONDALE	HOUCHIN CREEK	COAL	1.5	783.0	
-397.9	CARBONDALE		UNDERCLAY	2.0	784.5	
-399.9	CARBONDALE		GRAY SHALE	3.0	786.5	
-402.9	CARBONDALE		BLACK SHALE	1.5	789.5	
-404.4	CARBONDALE		COAL	1.5	791.0	
-405.9	CARBONDALE		UNDERCLAY	1.5	792.5	
-407.4	CARBONDALE		SANDY SHALE	13.0	794.0	
-420.4	CARBONDALE		COAL	2.0	807.0	
-422.4	CARBONDALE		UNDERCLAY	1.0	809.0	
-423.4	CARBONDALE		SANDY SHALE	9.0	810.0	

MAPID: 18590246000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 12 QUARTERS/FOOTAGES: 290' N line, 325' W line of NE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.811762 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.361849 DATE COLLECTED: 6 / 18 / 1980

SURFACE ELEVATION (FT.): 388.7 LOGGED (FT.): 800.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-242 WELL TYPE: Coal Test

COMMENT: WABASH BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
388.7	PLEISTOCENE		SILT	2.0	0.0
386.7	PLEISTOCENE		CLAY	6.0	2.0
380.7	PLEISTOCENE		SAND & GRAVEL	7.0	8.0
373.7			BLACK SHALE	2.0	15.0
371.7			LIMESTONE	3.0	17.0
368.7			GRAY SHALE	2.0	20.0
366.7			SANDY SHALE	20.0	22.0
346.7			SANDSTONE	83.0	42.0
263.7			LIMESTONE	4.0	125.0
259.7			BLACK SHALE	2.0	129.0
257.7			SANDY SHALE	86.0	131.0
171.7			BLACK SHALE	2.0	217.0
169.7			COAL	1.0	219.0
168.7			UNDERCLAY	1.0	220.0
167.7			SANDY SHALE	77.0	221.0
90.7			BLACK SHALE	2.0	298.0
88.7			COAL	2.0	300.0
86.7			UNDERCLAY	2.0	302.0
84.7			GRAY SHALE	6.0	304.0
78.7			CALCAREOUS SANDSTONE	4.0	310.0
74.7			LIMESTONE	3.0	314.0
71.7			CALCAREOUS SHALE	5.0	317.0
66.7			LIMESTONE	8.0	322.0
58.7	SHELBURN		CALCAREOUS SHALE	2.0	330.0
56.7	SHELBURN		SANDY SHALE	167.0	332.0
-110.3	SHELBURN	DANVILLE	COAL	2.0	499.0
-112.3	SHELBURN		UNDERCLAY	2.0	501.0
-114.3	SHELBURN		GRAY SHALE	7.0	503.0
-121.3	SHELBURN		LIMESTONE	3.0	510.0
-124.3	SHELBURN		SANDY SHALE	22.0	513.0
-146.3	SHELBURN	BRERETON	LIMESTONE	2.5	535.0
-148.8	CARBONDALE	ANNA	BLACK SHALE	2.0	537.5
-150.8	CARBONDALE	HERRIN	COAL	4.5	539.5
-155.3	CARBONDALE		UNDERCLAY	2.0	544.0
-157.3	CARBONDALE		SANDY SHALE	54.0	546.0
-211.3	CARBONDALE		BLACK SHALE	2.0	600.0
-213.3	CARBONDALE	BRIAR HILL	COAL	1.0	602.0
-214.3	CARBONDALE		UNDERCLAY	1.0	603.0

-215.3	CARBONDALE		SHALE/UNDERCLAY	54.3	604.0	
-269.6	CARBONDALE		GRAY SHALE	1.7	658.3	
-271.3	CARBONDALE		BLACK SHALE	1.0	660.0	
-272.3	CARBONDALE		BLACK SHALE & COAL	6.5	661.0	
-278.8	CARBONDALE	SPRINGFIELD	COAL	6.2	667.5	
-285.0	CARBONDALE		BLACK SHALE & COAL	0.5	673.7	
-285.5	CARBONDALE		UNDERCLAY	0.5	674.2	
-286.0	CARBONDALE		UNDERCLAY	1.0	674.7	
-287.0	CARBONDALE		SANDY SHALE	17.3	675.7	GRAY
-304.3	CARBONDALE		SANDY SHALE	58.0	693.0	
-362.3	CARBONDALE		LIMESTONE	10.0	751.0	
-372.3	CARBONDALE		SANDY SHALE	24.0	761.0	
-396.3	CARBONDALE	HOUCHIN CREEK	COAL	1.0	785.0	
-397.3	CARBONDALE		UNDERCLAY	1.0	786.0	
-398.3	CARBONDALE		GRAY SHALE	13.0	787.0	

MAPID: 18502766000C
VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH
TWP/RNG: 2S 13W
SECTION: 14

QUARTERS/FOOTAGES: 2442' S line, 2562' W line of NW

QUADRANGLE: KEENSBURG
LONGITUDE: -87.827396

GEOLOGIST: HOPKINS

CONFIDENTIAL: N
LATITUDE: 38.347721

DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.0
LOGGED (FT.): 2030.0

LOG TYPE: Electric Log

SOURCE: ARVIN DRILLING

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
-164.0	CARBONDALE	HERRIN	COAL	3.0	584.0	
-220.0	CARBONDALE	BRIAR HILL	COAL	-	640.0	
-310.0	CARBONDALE	SPRINGFIELD	COAL	8.0	730.0	
-397.0	CARBONDALE	HOUCHIN CREEK	COAL	-	817.0	

MAPID: 18526693000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 14 QUARTERS/FOOTAGES: 1543' N line, 2274' W line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.828457 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.344042 DATE COLLECTED: 3 / 15 / 1977
 SURFACE ELEVATION (FT.): 390.4 LOGGED (FT.): 700.0 LOG TYPE: Drillers Log
 SOURCE: AMAX T2-191 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
390.4			CLAY	7.0	0.0	BROWN
383.4			COAL	1.0	7.0	
382.4			SANDSTONE	6.0	8.0	GRAY
376.4			CLAYSTONE	12.0	14.0	GRAY
364.4			SANDSTONE	2.0	26.0	GRAY
362.4			CLAYSTONE	6.0	28.0	GRAY
356.4			SANDY SHALE	24.0	34.0	
332.4			GREEN SHALE	22.0	58.0	
310.4			SANDSTONE	39.0	80.0	GRAY
271.4			GRAY SHALE	1.5	119.0	
269.9			LIMESTONE	2.5	120.5	GRAY
267.4			BLACK SHALE	1.0	123.0	
266.4			GRAY SHALE	4.0	124.0	
262.4			SANDSTONE	8.0	128.0	GRAY
254.4			SANDY SHALE	12.0	136.0	
242.4			COAL	0.5	148.0	
241.9			SANDY SHALE	10.5	148.5	
231.4			SANDSTONE	45.0	159.0	GRAY
186.4			SANDY SHALE	18.0	204.0	
168.4			GRAY SHALE	14.0	222.0	LOG SAYS 16 IN THICKNESS
154.4			BLACK SHALE	5.0	236.0	
149.4			GRAY SHALE	14.0	241.0	
135.4			GRAY SHALE	18.0	255.0	
117.4			GRAY SHALE	20.0	273.0	
97.4			GRAY SHALE	10.0	293.0	
87.4			SHALY LIMESTONE	10.0	303.0	GRAY
77.4			SANDY SHALE	18.0	313.0	
59.4			SANDY SHALE	29.0	331.0	
30.4			SANDSTONE	6.0	360.0	GRAY
24.4			SANDY SHALE	15.0	366.0	LOG SAYS 25.00 IN THICKNESS
9.4			SANDY SHALE	10.0	381.0	
-0.6			SANDY SHALE	20.0	391.0	
-20.6			SANDY SHALE	19.0	411.0	
-39.6			ARGILLACEOUS SHALE	20.0	430.0	
-59.6			GRAY SHALE	18.0	450.0	
-77.6			SANDY SHALE	29.0	468.0	
-106.6	CARBONDALE	DANVILLE	COAL	3.0	497.0	
-109.6			UNDERCLAY	6.0	500.0	
-115.6			LIMESTONE	1.0	506.0	WHITE

-116.6			ARGILACEOUS SHALE	9.0	507.0	
-125.6			SANDY SHALE	19.0	516.0	
-144.6	CARBONDALE	HERRIN	COAL	3.0	535.0	
-147.6			SHALY LIMESTONE	2.0	538.0	GRAY
-149.6			SHALY LIMESTONE	6.0	540.0	GRAY
-155.6			SANDY SHALE	20.0	546.0	
-175.6			SANDY SHALE	38.0	566.0	
-213.6			SANDY SHALE	20.0	604.0	
-233.6			SANDY SHALE	19.0	624.0	
-252.6			SANDY SHALE	19.0	643.0	
-271.6			GRAY SHALE	15.0	662.0	
-286.6	CARBONDALE	SPRINGFIELD	COAL	7.0	677.0	
-293.6			SANDY SHALE	16.0	684.0	

MAPID: 18527487000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 14 **QUARTERS/FOOTAGES:** NW NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.824781 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.346485 **DATE COLLECTED:** 3 / 16 / 1983
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 255.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: NO ELEVATION GIVEN IN LOG.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	11.0	0.0	
-			SAND	4.0	11.0	
-			SANDY CLAY	25.0	15.0	
-			GRAY SHALE	30.0	40.0	
-			COAL	3.0	70.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	3.0	73.0	
-			GRAY SHALE	34.0	76.0	
-			SANDSTONE	47.0	110.0	
-			COAL	6.0	157.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SANDSTONE	2.0	163.0	
-			COAL	3.0	165.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SANDSTONE	7.0	168.0	
-			COAL	3.0	175.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	5.0	178.0	
-			COAL	6.0	183.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	66.0	189.0	

MAPID: 18527543000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 14

QUARTERS/FOOTAGES: NE NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.829456

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.346464

DATE COLLECTED: 10 / 22 / 1985

SURFACE ELEVATION (FT.):

LOGGED (FT.): 129.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	12.0	0.0	
-	BOND		SANDSTONE	2.0	12.0	
-	BOND		DARK SHALE	6.0	14.0	
-	BOND	FLANNIGAN	COAL	1.0	20.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	1.0	21.0	
-	BOND		GRAY SHALE	18.0	22.0	
-	BOND		SANDSTONE	1.0	40.0	
-	BOND		SANDSTONE	6.0	41.0	SS & OIL
-	BOND		GRAY SHALE	13.0	47.0	
-	BOND		SANDSTONE	3.0	60.0	
-	BOND		GRAY SHALE	7.0	63.0	
-	BOND		SANDSTONE	5.0	70.0	
-	BOND		GRAY SHALE	20.0	75.0	
-	BOND	MT. CARMEL	SANDSTONE	34.0	95.0	

MAPID: 18501627000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.837702

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.335464

DATE COLLECTED:

SURFACE ELEVATION (FT.): 392.0

LOGGED (FT.): 580.0

LOG TYPE:

SOURCE: LYNCH OIL CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
52.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	340.0	
-188.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	580.0	

MAPID: 18502140000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.842207 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.340107 DATE COLLECTED:
SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 2376.0 LOG TYPE:
SOURCE: HALBERT, R. C & REZNIK,J WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
45.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	350.0
-183.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	578.0
-1314.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1709.0
-1981.0		BASE BARLOW	LIMESTONE	-	2376.0

MAPID: 18502141000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.851344 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.340219 DATE COLLECTED:
SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 2640.0 LOG TYPE:
SOURCE: MILLER, G. W. DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
31.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	364.0
-207.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	602.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1970.0		BASE BARLOW	LIMESTONE	-	2365.0
-2245.0	RENAULT	BASE RENAULT	LIMESTONE	-	2640.0

MAPID: 18502141000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.851344 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.340219 DATE COLLECTED:
SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 2746.0 LOG TYPE: Electric Log
SOURCE: MILLER, G. W. DRILLING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-211.0	CARBONDALE	HERRIN	COAL	2.0	602.0
-267.0	CARBONDALE	BRIAR HILL	COAL	-	658.0
-356.0	CARBONDALE	SPRINGFIELD	COAL	6.0	747.0
-456.0	CARBONDALE	HOUCHIN CREEK	COAL	-	847.0

MAPID: 18505018000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.837566 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.345532 DATE COLLECTED:
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 2356.0 LOG TYPE:
SOURCE: PARTYKA CHESTER P WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1957.0		BASE BARLOW	LIMESTONE	-	2356.0	

MAPID: 18505025000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.837591 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.34371 DATE COLLECTED:
SURFACE ELEVATION (FT.): 401.0 LOGGED (FT.): 2362.0 LOG TYPE:
SOURCE: PARTYKA CHESTER P WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
68.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	333.0	
-156.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	557.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1961.0		BASE BARLOW	LIMESTONE	-	2362.0	

MAPID: 18505026000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 990' S line, 330' W line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.848989 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.343835 DATE COLLECTED:
SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 2636.0 LOG TYPE:
SOURCE: PARTYKA CHESTER P WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1979.0		BASE BARLOW	LIMESTONE	-	2376.0	
-2239.0	RENAULT	BASE RENAULT	LIMESTONE	-	2636.0	

MAPID: 18505066000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.842115

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.347437

DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0

LOGGED (FT.): 2694.0

LOG TYPE:

SOURCE: PARTYKA CHESTER P

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1972.0		BASE BARLOW	LIMESTONE	-	2410.0
-2256.0	RENAULT	BASE RENAULT	LIMESTONE	-	2694.0

MAPID: 18505620000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

QUARTERS/FOOTAGES: 560' N line, 530' E line of NW NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.842823

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.346809

DATE COLLECTED:

SURFACE ELEVATION (FT.): 445.0

LOGGED (FT.): 625.0

LOG TYPE:

SOURCE: HOCKING, ANDY G.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
47.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	398.0
-180.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	625.0

MAPID: 18526126000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 2616' S line, 2578' W line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.845711 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.34095 DATE COLLECTED: 9 / 22 / 1970

SURFACE ELEVATION (FT.): 390.1 LOGGED (FT.): 199.5 LOG TYPE: Drillers Log

SOURCE: AMAX A-121 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
390.1			UNCONSOLIDATED	3.0	0.0	
387.1			SAND & GRAVEL	17.0	3.0	
370.1			CLAY	6.0	20.0	
364.1			BLACK SHALE	1.0	26.0	
363.1			BLACK SHALE	3.0	27.0	
360.1			UNDERCLAY	1.0	30.0	
359.1			UNDERCLAY	3.0	31.0	
356.1			CLAYSTONE	1.5	34.0	
354.6			GRAY SHALE	7.2	35.5	LIME BOTTOMS
347.4			GRAY SHALE	1.3	42.7	
346.1			GRAY SHALE	16.0	44.0	
330.1			SHALE	4.0	60.0	DK GRAY
326.1			CALCAREOUS SHALE	2.5	64.0	
323.6			BLACK SHALE	1.7	66.5	
321.9			LIMESTONE	1.8	68.2	
320.1			GRAY SHALE	12.4	70.0	
307.7			GRAY SHALE	5.7	82.4	LIME BOTTOMS
302.0			SANDY SHALE	3.8	88.1	
298.2			SANDSTONE	0.9	91.9	
297.3			SANDY SHALE	2.7	92.8	
294.6			SANDSTONE	0.8	95.5	
293.8			SANDY SHALE	1.0	96.3	
292.8			SANDSTONE	56.5	97.3	
236.3			SANDY SHALE	1.7	153.8	
234.6			SANDY SHALE	0.3	155.5	
234.3			SANDSTONE	0.2	155.8	
234.1			SANDSTONE	35.8	156.0	
198.3			SANDSTONE	1.5	191.8	LIME BOTTOM
196.8			SANDSTONE	1.3	193.3	
195.5			BLACK SHALE	0.5	194.6	
195.0			SHALE	1.7	195.1	DK GRAY
193.3			SANDY SHALE	0.2	196.8	
193.2			COAL	2.6	196.9	

MAPID: 18526127000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 2612' N line, 23' E line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.836551 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.341058 DATE COLLECTED: 10 / 2 / 1970

SURFACE ELEVATION (FT.): 393.6 LOGGED (FT.): 197.0 LOG TYPE: Survey Core Study

SOURCE: AMAX A-125 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
393.6			UNCONSOLIDATED	7.0	0.0	
386.6			SAND	20.0	7.0	
366.6			CLAY	9.0	27.0	GREENISH
357.6			SANDY SHALE	6.6	36.0	
351.0			CALCAREOUS SHALE	2.2	42.6	
348.8			BLACK SHALE	2.6	44.8	
346.2			CALCAREOUS BLACK SHALE	2.3	47.4	
343.9			LIMESTONE	1.9	49.7	
342.0			COAL	0.9	51.6	
341.1			RASH	0.3	52.5	
340.8			CLAYSTONE	3.8	52.8	
337.0			CLAYSTONE	1.1	56.6	
335.9			SANDY SHALE	7.5	57.7	
328.4			SANDY SHALE	9.0	65.2	34.7
319.4			SANDSTONE	34.7	74.2	
284.7			SANDSTONE	10.4	108.9	
274.3			SANDSTONE	30.2	119.3	
244.1			SANDSTONE	6.1	149.5	& COAL STREAKS
238.0			BLACK SHALE	2.9	155.6	
235.1			SANDY SHALE	38.7	158.5	

MAPID: 18526128000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

QUARTERS/FOOTAGES: 1225' N line, 24' W line of NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.854618

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.345139

DATE COLLECTED: 10 / 13 / 1970

SURFACE ELEVATION (FT.): 435.3

LOGGED (FT.): 197.0

LOG TYPE: Drillers Log

SOURCE: AMAX

A-167

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.3			SAND	22.0	0.0	
413.3			CLAY	25.0	22.0	BLUE MUD
388.3			LIMESTONE	7.0	47.0	
381.3			GRAY SHALE	1.0	54.0	
380.3			GRAY SHALE	1.0	55.0	
379.3			GRAY SHALE	3.5	56.0	
375.8			SANDSTONE	2.5	59.5	
373.3			GRAY SHALE	22.3	62.0	
351.0			COAL	1.5	84.3	
349.5			UNDERCLAY	3.6	85.8	
345.9			COAL	0.3	89.4	
345.6			LIMESTONE	3.5	89.7	
342.1			LAMINATED SHALE	26.8	93.2	
315.3			CALCAREOUS SHALE	6.4	120.0	
308.9			COAL	3.2	126.4	
305.7			SHALE	3.4	129.6	DK GRAY
302.3			CALCAREOUS SHALE	3.0	133.0	
299.3			COAL	0.3	136.0	
299.0			SANDY SHALE	3.7	136.3	
295.4			SANDSTONE	4.6	139.9	
290.8			LAMINATED SHALE	35.5	144.5	
255.3			GRAY SHALE	17.0	180.0	

MAPID: 18526651000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: NE NE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.837627 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.340047 DATE COLLECTED: 4 / 2 / 1980
SURFACE ELEVATION (FT.): LOGGED (FT.): 147.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	10.0	0.0	SOIL AND SAND
-			SAND	11.0	10.0	LOG SAYS 'QUICK SAND'
-			GRAY SHALE	24.0	21.0	
-			DARK SHALE	5.0	45.0	
-			COAL	5.0	50.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	1.0	55.0	
-			GRAY SHALE	9.0	56.0	
-			SANDSTONE	10.0	65.0	
-			SANDSTONE	72.0	75.0	

MAPID: 18527124000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 680' N line, 680' W line
QUADRANGLE: KEENSBURG LONGITUDE: -87.852302 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.346611 DATE COLLECTED: 0 / 0 / 1982
SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 891.4 LOG TYPE: Survey Core Study
SOURCE: AMAX COAL T2-286 WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0			NO RECORD	830.0	0.0	
-392.0			SANDSTONE	20.0	830.0	LT GRAY
-412.0			SANDSTONE	37.4	850.0	GRAY
-449.4	CARBONDALE	HOUCHIN CREEK	COAL	2.0	887.4	
-451.4			CLAYSTONE	2.0	889.4	OLV GRAY

MAPID: 18527126000C VERSION: 1

PROJECT: AVAIL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 690' N line, 580' W line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.852653 GEOLOGIST: NORTH/CARR
 CONFIDENTIAL: N LATITUDE: 38.346588 DATE COLLECTED: 5 / 26 / 1982
 SURFACE ELEVATION (FT.): 434.8 LOGGED (FT.): 1060.0 LOG TYPE: Drillers Log
 SOURCE: AMAX T2-290 WELL TYPE: Coal Test
 COMMENT: WABASH BOX27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
434.8				880.3	0.0
-445.5	CARBONDALE		SANDSTONE & CONGLOMERATE	2.7	880.3
-448.2	CARBONDALE	HOUCHIN CREEK	COAL	1.0	883.0
-449.2	CARBONDALE		UNDERCLAY	1.0	884.0
-450.2	CARBONDALE		GRAY SHALE	7.0	885.0
-457.2	CARBONDALE		SANDY SHALE	40.0	892.0
-497.2	CARBONDALE	COLCHESTER	COAL	3.0	932.0
-500.2	CARBONDALE		UNDERCLAY	1.0	935.0
-501.2	CARBONDALE		DARK SHALE	7.0	936.0
-508.2	CARBONDALE		GRAY SANDSTONE	17.0	943.0
-525.2	CARBONDALE	DEKOVEN	COAL	2.0	960.0
-527.2	CARBONDALE		UNDERCLAY	1.0	962.0
-528.2	CARBONDALE		SANDY SHALE	13.0	963.0
-541.2	CARBONDALE	DAVIS	COAL	5.0	976.0
-546.2			UNDERCLAY	2.0	981.0
-548.2			GRAY SHALE	4.0	983.0
-552.2			GRAY SANDSTONE	40.0	987.0
-592.2			COAL	3.0	1027.0
-595.2			UNDERCLAY	1.0	1030.0
-596.2			SANDY SHALE	14.0	1031.0
-610.2			COAL	3.0	1045.0
-613.2			UNDERCLAY	1.0	1048.0
-614.2			GRAY SHALE	3.0	1049.0
-617.2			SANDSTONE	5.0	1052.0
-622.2			GRAY SHALE	3.0	1057.0

MAPID: 18527126000C VERSION: 2 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 690' N line, 580' W line

QUADRANGLE: KEENSBURG LONGITUDE: -87.852653 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.346588 DATE COLLECTED: 0 / 0 / 1982

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 885.0 LOG TYPE: Survey Core Study

SOURCE: AMAX COAL T2-290 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0			NO RECORD	732.0	0.0	
-294.0			SILTSTONE	1.3	732.0	DK GRAY
-295.3			COAL	0.3	733.3	
-295.6			CLAYSTONE	0.3	733.6	DK GRAY
-295.8			MUDSTONE	5.9	733.8	MED GRAY
-301.7			SANDSTONE	4.0	739.7	LT GRAY
-305.7			SHALE	5.9	743.7	MED GRAY
-311.6	CARBONDALE	BRERETON	LIMESTONE	2.4	749.6	GRAY
-314.0			NO RECORD	7.3	752.0	INCLUDES HERRIN #6 COAL
-321.3			CLAYSTONE	2.4	759.3	DK GRAY
-323.7			MUDSTONE	9.3	761.7	MED GRAY
-333.0			SHALE	10.0	771.0	MED GRAY
-343.0			SANDSTONE	8.0	781.0	MED GRAY
-351.0			SHALE	18.0	789.0	DK GRAY
-369.0			SHALE	1.0	807.0	
-370.0	CARBONDALE	BRIAR HILL	COAL	1.5	808.0	
-371.5			SILTSTONE	43.5	809.5	DK GRAY
-415.0			BRECCIA	7.7	853.0	
-422.7			SANDSTONE	19.4	860.7	LT GRAY
-442.1			CONGLOMERATE	4.9	880.1	

MAPID: 18590119000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 660' N line, 250' E line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.850982 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.346658 DATE COLLECTED: 5 / 12 / 1982

SURFACE ELEVATION (FT.): 439.5 LOGGED (FT.): 982.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-283 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.5	PLEISTOCENE		CLAY	11.0	0.0	
428.5	PLEISTOCENE		UNCONSOLIDATED	21.0	11.0	
407.5	BOND			3.0	32.0	
404.5	BOND		SANDY SHALE	25.0	35.0	
379.5	BOND		DARK SHALE	84.0	60.0	
295.5	BOND		LIMESTONE	0.5	144.0	
295.0	BOND		DARK SHALE	15.5	144.5	
279.5	BOND		LIMESTONE	86.0	160.0	
193.5	PATOKA		SANDY SHALE	6.0	246.0	
187.5	PATOKA			2.0	252.0	
185.5	PATOKA		GRAY SHALE	16.0	254.0	
169.5	PATOKA		SANDY SHALE	57.0	270.0	
112.5	PATOKA		SANDSTONE	13.0	327.0	
99.5	PATOKA		GRAY SHALE	19.0	340.0	
80.5	PATOKA		SANDSTONE	55.0	359.0	
25.5	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	414.0	
19.5	SHELBURN		GRAY SHALE	7.0	420.0	
12.5	SHELBURN		SANDY SHALE	49.0	427.0	
-36.5	SHELBURN		SANDSTONE	6.0	476.0	
-42.5	SHELBURN		SANDY SHALE	32.0	482.0	
-74.5	SHELBURN		SANDSTONE	68.0	514.0	
-142.5	SHELBURN		GRAY SHALE	25.0	582.0	
-167.5	SHELBURN	DANVILLE	COAL	2.0	607.0	
-169.5	SHELBURN		UNDERCLAY	2.0	609.0	
-171.5	SHELBURN		GRAY SHALE	3.0	611.0	
-174.5	SHELBURN		LIMESTONE	3.0	614.0	
-177.5	SHELBURN		GRAY SHALE	8.0	617.0	
-185.5	SHELBURN		SANDSTONE	13.2	625.0	
-198.7	CARBONDALE	HERRIN	COAL	3.8	638.2	TOP ERODED
-202.5	CARBONDALE		SANDSTONE	53.0	642.0	
-255.5	CARBONDALE		GRAY SHALE	20.0	695.0	
-275.5	CARBONDALE		SANDY SHALE	63.0	715.0	
-338.5	CARBONDALE	SPRINGFIELD	COAL	7.5	778.0	
-346.0	CARBONDALE		UNDERCLAY	2.0	785.5	
-348.0	CARBONDALE		GRAY SHALE	34.5	787.5	
-382.5	CARBONDALE		SANDSTONE	40.0	822.0	
-422.5	CARBONDALE		CALCAREOUS SHALE	30.0	862.0	
-452.5	CARBONDALE		COAL	1.5	892.0	
-454.0	CARBONDALE		UNDERCLAY	2.5	893.5	

-456.5	CARBONDALE	COAL	1.5	896.0
-458.0	CARBONDALE	DARK SHALE	53.5	897.5
-511.5	CARBONDALE	SANDSTONE	31.0	951.0

MAPID: 18590120000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 660' N line, 850' E line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853075 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.346688 DATE COLLECTED: 5 / 12 / 1982

SURFACE ELEVATION (FT.): 442.2 LOGGED (FT.): 1036.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-282 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
442.2	PLEISTOCENE		SAND	40.0	0.0
402.2	PLEISTOCENE		CLAY	7.0	40.0
395.2	MATTOON		GRAY SANDSTONE	11.0	47.0
384.2	MATTOON		GRAY SHALE	26.0	58.0
358.2	MATTOON		BROWN LIMESTONE	4.0	84.0
354.2	MATTOON		SANDY SHALE	3.0	88.0
351.2	MATTOON		GRAY SHALE	29.0	91.0
322.2	MATTOON	FRIENDSVILLE	COAL	2.0	120.0
320.2	BOND		BROWN SHALE	6.0	122.0
314.2	BOND		BROWN LIMESTONE	2.0	128.0
312.2	BOND		GRAY SHALE	4.0	130.0
308.2	BOND		GRAY SANDSTONE	6.0	134.0
302.2	BOND		GRAY SHALE	85.0	140.0
217.2	BOND		BROWN LIMESTONE	1.0	225.0
216.2	BOND		GRAY SHALE	114.0	226.0
102.2	BOND		SANDY SHALE	4.0	340.0
98.2	BOND	MT. CARMEL	GRAY SANDSTONE	4.0	344.0
94.2	BOND	MT. CARMEL	GRAY SANDSTONE	8.0	348.0
86.2	BOND		LIMESTONE	6.0	356.0
80.2			BLACK SHALE	2.0	362.0
78.2			GRAY SHALE	104.0	364.0
-25.8			BLACK SHALE	4.0	468.0
-29.8			GRAY SHALE	59.0	472.0
-88.8	SHELBURN		LIMESTONE	4.0	531.0
-92.8	SHELBURN		GRAY SHALE	193.0	535.0
-285.8	SHELBURN	DANVILLE	COAL	4.0	728.0
-289.8	SHELBURN		LIMESTONE	1.0	732.0
-290.8	SHELBURN		GRAY SHALE	17.0	733.0
-307.8	SHELBURN		LIMESTONE	2.0	750.0
-309.8	SHELBURN		GRAY SHALE	149.0	752.0
-458.8	CARBONDALE	SPRINGFIELD	COAL	5.0	901.0
-463.8	CARBONDALE			104.0	906.0
-567.8	CARBONDALE		COAL	2.0	1010.0
-569.8	CARBONDALE		GRAY SHALE	24.0	1012.0

MAPID: 18590121000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 660' N line, 400' E line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.851504 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.346666 DATE COLLECTED: 5 / 14 / 1982

SURFACE ELEVATION (FT.): 440.1 LOGGED (FT.): 980.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-284 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
440.1	PLEISTOCENE		CLAY	17.0	0.0
423.1	PLEISTOCENE		UNCONSOLIDATED	15.0	17.0
408.1	PLEISTOCENE		CLAY	4.0	32.0
404.1	MATTOON		BROWN SHALE	10.0	36.0
394.1	MATTOON		GRAY SHALE	3.0	46.0
391.1	MATTOON	KEENSBURG	COAL	2.5	49.0
388.6	MATTOON		GRAY SHALE	16.5	51.5
372.1	MATTOON		GRAY SANDSTONE	15.0	68.0
357.1	MATTOON		GRAY SHALE	22.0	83.0
335.1	MATTOON		SANDY SHALE	15.0	105.0
320.1	MATTOON	FRIENDSVILLE	COAL	1.5	120.0
318.6	MATTOON		UNDERCLAY	0.5	121.5
318.1	BOND		DARK SHALE	6.0	122.0
312.1	BOND		LIMESTONE	1.0	128.0
311.1	BOND		SANDY SHALE	31.0	129.0
280.1	BOND		DARK SHALE	11.0	160.0
269.1	BOND		SANDY SHALE	24.0	171.0
245.1	BOND		GRAY SANDSTONE	46.0	195.0
199.1	BOND		SANDY SHALE	4.0	241.0
195.1	BOND		GRAY SANDSTONE	8.0	245.0
187.1	BOND		LIMESTONE	5.0	253.0
182.1	PATOKA		SANDY SHALE	3.0	258.0
179.1	PATOKA		BLACK SHALE	1.5	261.0
177.6	PATOKA		DARK SHALE	3.5	262.5
174.1	PATOKA		SANDY SHALE	107.0	266.0
67.1	PATOKA		GRAY SANDSTONE	12.0	373.0
55.1	PATOKA		SANDY SHALE	39.0	385.0
16.1	SHELBURN		LIMESTONE	7.0	424.0
9.1	SHELBURN		SANDY SHALE	53.0	431.0
-43.9	SHELBURN		DARK SHALE	48.0	484.0
-91.9	SHELBURN			3.0	532.0
-94.9	SHELBURN		SANDY SHALE	70.0	535.0
-164.9	SHELBURN		DARK SHALE	5.0	605.0
-169.9	SHELBURN	DANVILLE	COAL	2.5	610.0
-172.4	SHELBURN		UNDERCLAY	1.5	612.5
-173.9	SHELBURN		LIMESTONE	1.0	614.0
-174.9	SHELBURN		SANDY SHALE	16.5	615.0
-191.4	SHELBURN	BRERETON	LIMESTONE	4.5	631.5
-195.9	SHELBURN		GRAY SHALE	2.0	636.0

-197.9	CARBONDALE	HERRIN	COAL	2.2	638.0
-200.1	CARBONDALE		UNDERCLAY	1.8	640.2
-201.9	CARBONDALE		GRAY SHALE	58.0	642.0
-259.9	CARBONDALE		DARK SHALE	3.0	700.0
-262.9	CARBONDALE		COAL	0.5	703.0
-263.4	CARBONDALE		GRAY SHALE	77.0	703.5
-340.4	CARBONDALE	SPRINGFIELD	COAL	6.5	780.5
-346.9	CARBONDALE		UNDERCLAY	0.8	787.0
-347.7	CARBONDALE		GRAY SANDSTONE	36.2	787.8
-383.9	CARBONDALE		SHALY SANDSTONE	63.0	824.0
-446.9	CARBONDALE		GRAY SHALE	2.0	887.0
-448.9	CARBONDALE		SANDSTONE	4.5	889.0
-453.4	CARBONDALE		COAL	1.5	893.5
-454.9	CARBONDALE		UNDERCLAY	3.5	895.0
-458.4	CARBONDALE		GRAY SHALE	72.5	898.5
-530.9	CARBONDALE		COAL	1.5	971.0
-532.4	CARBONDALE		GRAY SHALE	7.5	972.5

MAPID: 18590122000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 660' N line, 700' E line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.838834 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 38.346489 DATE COLLECTED: 5 / 14 / 1982
 SURFACE ELEVATION (FT.): 435.5 LOGGED (FT.): 1117.0 LOG TYPE: Drillers Log
 SOURCE: AMAX T2-285 WELL TYPE: Coal Test
 COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
435.5	PLEISTOCENE		SANDY CLAY	7.0	0.0
428.5	PLEISTOCENE		SAND	15.0	7.0
413.5	PLEISTOCENE		CLAY	21.0	22.0
392.5	MATTOON		GRAY SHALE	5.0	43.0
387.5	MATTOON		SANDY SHALE	29.0	48.0
358.5	MATTOON		BROWN LIMESTONE	3.0	77.0
355.5	MATTOON		GRAY SHALE	40.0	80.0
315.5	MATTOON		BROWN LIMESTONE	1.0	120.0
314.5	MATTOON	FRIENDSVILLE	COAL	2.0	121.0
312.5	BOND		GRAY SHALE	8.0	123.0
304.5	BOND		SANDY LIMESTONE	1.0	131.0
303.5	BOND		GRAY SHALE	118.0	132.0
185.5	BOND		BLACK SHALE	5.0	250.0
180.5	BOND		GRAY SHALE	25.0	255.0
155.5	BOND		SANDY SHALE	15.0	280.0
140.5	BOND	MT. CARMEL	GRAY SANDSTONE	65.0	295.0
75.5			GRAY SHALE	101.0	360.0
-25.5			COAL	2.0	461.0
-27.5			UNDERCLAY	1.0	463.0
-28.5			GRAY SHALE	12.0	464.0
-40.5			SANDY SHALE	13.0	476.0
-53.5			GRAY SHALE	38.0	489.0
-91.5	SHELBURN		BROWN LIMESTONE	4.0	527.0
-95.5	SHELBURN		GRAY SHALE	84.0	531.0
-179.5	SHELBURN		SANDY SHALE	18.0	615.0
-197.5	SHELBURN		GRAY SHALE	87.0	633.0
-284.5	SHELBURN	DANVILLE	COAL	3.0	720.0
-287.5	SHELBURN		UNDERCLAY	2.0	723.0
-289.5	SHELBURN		GRAY SHALE	2.0	725.0
-291.5	SHELBURN		BROWN LIMESTONE	5.0	727.0
-296.5	SHELBURN		GRAY SHALE	75.4	732.0
-371.9	SHELBURN		CALCAREOUS SHALE	1.1	807.4
-373.0	CARBONDALE	BRIAR HILL	COAL	0.6	808.5
-373.6	CARBONDALE		GRAY SHALE	1.2	809.1
-374.8	CARBONDALE		SANDSTONE/SHALE	30.0	810.3
-404.8	CARBONDALE		SHALE & SANDSTONE	52.9	840.3
-457.7	CARBONDALE		DARK SHALE	0.8	893.2
-458.5	CARBONDALE	SPRINGFIELD	COAL	6.0	894.0
-464.5	CARBONDALE		UNDERCLAY	1.4	900.0

-465.9	CARBONDALE		SANDY SHALE	9.3	901.4
-475.2	CARBONDALE		SHALE & SANDSTONE	3.2	910.7
-478.4	CARBONDALE		GRAY SANDSTONE	26.1	913.9
-504.5	CARBONDALE		SANDY SHALE	36.0	940.0
-540.5			BROWN LIMESTONE	1.0	976.0
-541.5			GRAY SHALE	5.0	977.0
-546.5			SHALY LIMESTONE	8.0	982.0
-554.5			COAL	2.0	990.0
-556.5			UNDERCLAY	1.0	992.0
-557.5			GRAY SHALE	14.0	993.0
-571.5			COAL	4.0	1007.0
-575.5			UNDERCLAY	2.0	1011.0
-577.5			GRAY SHALE	19.0	1013.0
-596.5			COAL	3.0	1032.0
-599.5			UNDERCLAY	1.0	1035.0
-600.5			GRAY SHALE	22.0	1036.0
-622.5			COAL	4.0	1058.0
-626.5			GRAY SHALE	11.0	1062.0
-637.5			SANDY SHALE	7.0	1073.0
-644.5			BLACK SHALE	2.0	1080.0
-646.5	CARBONDALE	HOUCHIN CREEK	COAL	8.0	1082.0
-654.5			UNDERCLAY	2.0	1090.0
-656.5			CALCAREOUS SHALE	7.0	1092.0
-663.5			UNKNOWN	18.0	1099.0

MAPID: 18590123000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.852399 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.346654 DATE COLLECTED: 11 / 17 / 1982

SURFACE ELEVATION (FT.): 435.4 LOGGED (FT.): 925.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-307 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.4	PLEISTOCENE		CLAY	6.0	0.0	
429.4	PLEISTOCENE		UNCONSOLIDATED	39.0	6.0	
390.4	MATTOON		SANDY SHALE	28.0	45.0	
362.4	MATTOON		COAL	1.0	73.0	KEENSBURG?
361.4	MATTOON		GRAY SHALE	4.0	74.0	
357.4	MATTOON		LIMESTONE	4.0	78.0	
353.4	MATTOON		GRAY SHALE	36.0	82.0	
317.4	MATTOON		DARK SHALE	10.0	118.0	
307.4	BOND		LIMESTONE	2.0	128.0	
305.4	BOND		GRAY SHALE	76.0	130.0	
229.4	BOND		DARK SHALE	4.0	206.0	
225.4	BOND	BRISTOL HILL	COAL	1.0	210.0	
224.4	BOND		DARK SHALE	3.0	211.0	
221.4	BOND		GRAY SHALE	2.0	214.0	
219.4	BOND		GRAY SANDSTONE	2.0	216.0	
217.4	BOND		GRAY SHALE	31.0	218.0	
186.4	BOND		DARK SHALE	2.0	249.0	
184.4	BOND		GRAY SANDSTONE	1.0	251.0	
183.4			DARK SHALE	3.0	252.0	
180.4			GRAY SHALE	67.0	255.0	
113.4			DARK SHALE	34.0	322.0	
79.4			BROWN LIMESTONE	4.0	356.0	
75.4			SANDY SHALE	110.0	360.0	
-34.6			GRAY SANDSTONE	1.0	470.0	
-35.6			SANDY SHALE	58.0	471.0	
-93.6	SHELBURN		LIMESTONE	6.0	529.0	
-99.6	SHELBURN		SANDY SHALE	45.0	535.0	
-144.6	SHELBURN		DARK SHALE	63.0	580.0	
-207.6	SHELBURN		SANDY SHALE	77.0	643.0	
-284.6	SHELBURN	DANVILLE	COAL	3.0	720.0	
-287.6	SHELBURN		UNDERCLAY	2.0	723.0	
-289.6	SHELBURN		DARK SHALE	5.0	725.0	
-294.6	SHELBURN		LIMESTONE	5.0	730.0	
-299.6	SHELBURN		SANDY SHALE	21.0	735.0	
-320.6	SHELBURN	BRERETON	LIMESTONE	1.0	756.0	
-321.6	CARBONDALE	HERRIN	COAL	2.0	757.0	
-323.6	CARBONDALE		UNDERCLAY	3.0	759.0	
-326.6	CARBONDALE		GRAY SANDSTONE	4.5	762.0	
-331.1	CARBONDALE		GRAY SHALE	2.6	766.5	

-333.7	CARBONDALE		GRAY SANDSTONE	2.0	769.1	
-335.7	CARBONDALE		SILTY SHALE	11.7	771.1	
-347.4	CARBONDALE		GRAY SANDSTONE	19.7	782.8	
-367.1	CARBONDALE		SILTSTONE	8.9	802.5	
-376.0	CARBONDALE	BRIAR HILL	COAL	0.8	811.4	
-376.8	CARBONDALE		SILTSTONE	0.8	812.2	
-377.6	CARBONDALE		GRAY SANDSTONE	24.0	813.0	
-401.6	CARBONDALE		SILTSTONE	53.5	837.0	
-455.1	CARBONDALE		GRAY SHALE	7.8	890.5	
-462.9	CARBONDALE	SPRINGFIELD	COAL	3.7	898.3	
-466.6	CARBONDALE		UNKNOWN	3.0	902.0	LOSS
-469.6	CARBONDALE		UNDERCLAY	0.3	905.0	
-469.9	CARBONDALE		SILTSTONE	4.2	905.3	
-474.1	CARBONDALE		GRAY SANDSTONE	12.5	909.5	
-486.6	CARBONDALE		SANDSTONE	3.0	922.0	

MAPID: 18590124000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

QUARTERS/FOOTAGES: NW NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.852399

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.346654

DATE COLLECTED: 11 / 23 / 1982

SURFACE ELEVATION (FT.): 434.8

LOGGED (FT.): 910.0

LOG TYPE: Drillers Log

SOURCE: AMAX

T2-308

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.8	PLEISTOCENE		CLAY	6.0	0.0	
428.8	PLEISTOCENE		UNCONSOLIDATED	8.0	6.0	
420.8	PLEISTOCENE		SAND	3.0	14.0	
417.8	PLEISTOCENE		UNCONSOLIDATED	27.0	17.0	
390.8	MATTOON		SANDY SHALE	5.0	44.0	
385.8	MATTOON		GRAY SANDSTONE	2.0	49.0	
383.8	MATTOON		SANDY SHALE	25.0	51.0	
358.8	MATTOON	KEENSBURG	COAL	1.5	76.0	
357.3	MATTOON		SANDY SHALE	4.5	77.5	
352.8	MATTOON		LIMESTONE	3.0	82.0	
349.8	MATTOON		SANDY SHALE	34.5	85.0	
315.3	MATTOON		LIMESTONE	0.5	119.5	
314.8	MATTOON		SANDY SHALE	6.5	120.0	
308.3	MATTOON		LIMESTONE	0.5	126.5	
307.8	MATTOON		SANDY SHALE	3.0	127.0	
304.8	MATTOON		LIMESTONE	1.0	130.0	
303.8	MATTOON		SANDY SHALE	80.0	131.0	
223.8	BOND	BRISTOL HILL	COAL	1.0	211.0	
222.8	BOND		SANDY SHALE	6.0	212.0	
216.8	BOND		LIMESTONE	2.0	218.0	
214.8	BOND		SANDY SHALE	25.0	220.0	
189.8	BOND		SANDY SHALE	8.0	245.0	DARK
181.8	BOND		GRAY SANDSTONE	1.0	253.0	
180.8			SANDY SHALE	99.0	254.0	
81.8			COAL	1.0	353.0	
80.8			LIMESTONE	3.0	354.0	
77.8			SANDY SHALE	100.0	357.0	
-22.2			DARK SHALE	5.0	457.0	
-27.2			SANDY SHALE	67.0	462.0	
-94.2			GRAY SANDSTONE	1.0	529.0	
-95.2	SHELBURN	WEST FRANKLIN	LIMESTONE	5.0	530.0	
-100.2	SHELBURN		GRAY SHALE	47.0	535.0	
-147.2	SHELBURN		SANDY SHALE	60.0	582.0	
-207.2	SHELBURN		GRAY SANDSTONE	18.0	642.0	
-225.2	SHELBURN		SANDY SHALE	62.0	660.0	
-287.2	SHELBURN	DANVILLE	COAL	2.5	722.0	
-289.7	SHELBURN		UNDERCLAY	1.5	724.5	
-291.2	SHELBURN		DARK SHALE	4.0	726.0	
-295.2	SHELBURN		LIMESTONE	5.0	730.0	

-300.2	SHELBURN		SANDY SHALE	16.6	735.0	
-316.8	SHELBURN	BRERETON	LIMESTONE	2.0	751.6	
-318.8	CARBONDALE	ANNA	BLACK SHALE	0.7	753.6	
-319.5	CARBONDALE	HERRIN	COAL	2.8	754.3	
-322.3	CARBONDALE		SILTSTONE	3.9	757.1	
-326.2	CARBONDALE		SANDSTONE	10.2	761.0	
-336.4	CARBONDALE		SILTSTONE	11.1	771.2	
-347.5	CARBONDALE		SANDSTONE	13.0	782.3	
-360.5	CARBONDALE		SILTSTONE	6.9	795.3	
-367.4	CARBONDALE		SILTSTONE	8.0	802.2	DARK GRAY
-375.4	CARBONDALE		DARK SHALE	2.1	810.2	
-377.5	CARBONDALE	BRIAR HILL	COAL	0.7	812.3	
-378.2	CARBONDALE		SILTSTONE	0.5	813.0	
-378.7	CARBONDALE		SILTY SANDSTONE	44.5	813.5	
-423.2	CARBONDALE		UNKNOWN	11.0	858.0	FAULT GAUGE
-434.2	CARBONDALE		GRAY SANDSTONE	14.0	869.0	
-448.2	CARBONDALE			2.7	883.0	
-450.9	CARBONDALE		DARK SHALE	0.3	885.7	
-451.2	CARBONDALE	HOUCHIN CREEK	COAL	1.0	886.0	
-452.2	CARBONDALE		UNDERCLAY	2.9	887.0	
-455.1	CARBONDALE		SILTSTONE	11.1	889.9	
-466.2	CARBONDALE		SHALE	9.0	901.0	

MAPID: 18590125000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 386' S line, 365' E line of SW NW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.851436 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.342192 **DATE COLLECTED:** 9 / 23 / 1970
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 88.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE A118FC **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
390.0	PLEISTOCENE		UNCONSOLIDATED	1.5	0.0
388.5	PLEISTOCENE		SAND	6.5	1.5
382.0	PLEISTOCENE			6.0	8.0
376.0	PLEISTOCENE		CLAY	18.7	14.0
357.3	MATTOON		GRAY SHALE	18.3	32.7
339.0	MATTOON		BLACK SHALE	4.0	51.0
335.0	MATTOON		GRAY SHALE	0.7	55.0
334.3	MATTOON		COAL	0.8	55.7 BLOOM
333.5	MATTOON		UNDERCLAY	4.8	56.5
328.7	MATTOON		LIMESTONE	4.6	61.3
324.1	MATTOON		SHALE	1.8	65.9
322.2	MATTOON		GRAY SHALE	6.3	67.8
316.0	MATTOON		CALCAREOUS SHALE	14.0	74.0

MAPID: 18590126000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 890' S line, 330' E line of SW NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.851299 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.343576 DATE COLLECTED: 9 / 24 / 1970
SURFACE ELEVATION (FT.): 428.7 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE A143LC WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
428.7	PLEISTOCENE		SAND	8.0	0.0
420.7	PLEISTOCENE		CLAY	5.0	8.0
415.7	PLEISTOCENE		SAND	6.0	13.0
409.7	PLEISTOCENE		CLAY	43.0	19.0
366.7			GRAY SHALE	32.0	62.0
334.7			BLACK SHALE	1.7	94.0
333.0			LIMESTONE	1.1	95.7
331.9			SHALE	0.5	96.8
331.4			LIMESTONE	1.2	97.3
330.3			GRAY SHALE	5.6	98.4
324.7			SANDSTONE	2.3	104.0
322.4			GRAY SHALE	13.7	106.3

MAPID: 18590127000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 1201' S line, 816' E line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.848412 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.344393 DATE COLLECTED: 9 / 24 / 1970
SURFACE ELEVATION (FT.): 408.1 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE A144GC WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
408.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
400.1	MATTOON		SANDY SHALE	52.0	8.0
348.1	MATTOON		BLACK SHALE	3.5	60.0
344.6	MATTOON		LIMESTONE	1.0	63.5
343.6	MATTOON		COAL	1.0	64.5
342.6	MATTOON		UNDERCLAY	8.5	65.5
334.1	MATTOON		LIMESTONE	2.7	74.0
331.4	MATTOON		GRAY SHALE	1.3	76.7

MAPID: 18590128000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

QUARTERS/FOOTAGES: 801' S line, 816' E line of SE NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.848423

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.343294

DATE COLLECTED: 9 / 24 / 1970

SURFACE ELEVATION (FT.): 388.2

LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE

A145M

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
388.2	PLEISTOCENE		CLAY	8.0	0.0	
380.2	MATTOON		SANDY SHALE	25.0	8.0	
355.2	MATTOON		BLACK SHALE	3.8	33.0	
351.4	MATTOON		COAL	0.8	36.8	KEENSBURG?
350.6	MATTOON		UNDERCLAY	5.4	37.6	
345.2	MATTOON		LIMESTONE	2.3	43.0	
342.9	MATTOON		GRAY SHALE	18.8	45.3	HARD

MAPID: 18590129000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 26' S line, 39' E line of NE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.845696 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.344802 DATE COLLECTED: 10 / 9 / 1970

SURFACE ELEVATION (FT.): 398.2 LOGGED (FT.): 197.8 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A171 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
398.2	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0
387.2	PLEISTOCENE		SAND	2.5	11.0
384.7	MATTOON		GRAY SHALE	26.5	13.5
358.2	MATTOON		CALCAREOUS SHALE	0.6	40.0
357.6	MATTOON		DARK SHALE	0.9	40.6
356.7	MATTOON		BLACK SHALE	2.6	41.5
354.1	MATTOON		LIMESTONE	0.3	44.1
353.8	MATTOON		SHALE	0.2	44.4
353.6	MATTOON		COAL	0.8	44.6 KEENSBURG?
352.8	MATTOON		UNDERCLAY	1.8	45.4
350.9	MATTOON		UNDERCLAY	2.8	47.3 LOST CORE
348.2	MATTOON		UNDERCLAY	1.0	50.0
347.2	MATTOON		GRAY SHALE	33.0	51.0
314.2	MATTOON		BLACK SHALE	2.5	84.0
311.7	MATTOON		GRAY SHALE	25.3	86.5
286.4	MATTOON		COAL	0.1	111.8
286.3	BOND		SHALE	11.0	111.9
275.3	BOND		SANDSTONE	36.1	122.9
239.2	BOND		SHALE	4.0	159.0
235.2	BOND		SANDSTONE	28.5	163.0
206.7	BOND		SHALE	0.8	191.5
205.9	BOND		LIMESTONE	4.5	192.3
201.4	BOND		BLACK SHALE	1.1	196.8

MAPID: 18590130000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

QUARTERS/FOOTAGES: 46' S line, 23' E line of SE NE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.836547

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.341078

DATE COLLECTED: 10 / 12 / 1970

SURFACE ELEVATION (FT.): 393.8

LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE

A175

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
393.8	PLEISTOCENE		UNCONSOLIDATED	2.0	0.0	
391.8	PLEISTOCENE		SAND	10.0	2.0	
381.8	PLEISTOCENE		MUD	10.0	12.0	
371.8	MATTOON		GRAY SHALE	26.0	22.0	
345.8	MATTOON		BLACK SHALE	5.8	48.0	
340.0	MATTOON		LIMESTONE	1.7	53.8	
338.4	MATTOON		COAL	0.8	55.4	
337.5	MATTOON		UNDERCLAY	2.8	56.3	
334.8	MATTOON		GRAY SHALE	19.0	59.0	

MAPID: 18590131000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 62' N line, 88' W line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.854358 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.348347 DATE COLLECTED: 10 / 8 / 1970

SURFACE ELEVATION (FT.): 434.8 LOGGED (FT.): 197.1 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A217 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.8	PLEISTOCENE	KEENSBURG	UNCONSOLIDATED	10.0	0.0	
424.8	PLEISTOCENE		SAND	6.0	10.0	
418.8	PLEISTOCENE		CLAY	26.0	16.0	
392.8	MATTOON		GRAY SHALE	1.0	42.0	
391.8	MATTOON		GRAY SHALE	2.0	43.0	
389.8	MATTOON		GRAY SHALE	5.0	45.0	
384.8	MATTOON		SANDY SHALE	3.3	50.0	
381.5	MATTOON		GRAY SHALE	6.8	53.3	SOFT
374.8	MATTOON		GRAY SHALE	6.3	60.0	
368.5	MATTOON		COAL	1.5	66.3	
367.0	MATTOON		UNDERCLAY	1.1	67.8	
365.9	MATTOON		COAL	0.1	68.9	
365.8	MATTOON		UNDERCLAY	0.7	69.0	
365.1	MATTOON		COAL	0.1	69.7	
365.0	MATTOON		GRAY SHALE	3.3	69.8	
361.8	MATTOON		LIMESTONE	2.0	73.0	
359.8	MATTOON		GRAY SHALE	21.0	75.0	
338.8	MATTOON		GRAY SHALE	11.0	96.0	
327.8	MATTOON		GRAY SHALE	0.9	107.0	
326.9	MATTOON	FRIENDSVILLE	COAL	3.3	107.9	
323.5	MATTOON		DARK SHALE	6.5	111.3	LAMINATED
317.0	MATTOON		COAL	0.3	117.8	
316.8	BOND		SANDY SHALE	79.1	118.0	

MAPID: 18590132000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 29' N line, 103' E line of NE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.845877 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.348322 DATE COLLECTED: 9 / 22 / 1970

SURFACE ELEVATION (FT.): 441.5 LOGGED (FT.): 197.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A221 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.5	PLEISTOCENE		UNCONSOLIDATED	19.0	0.0	
422.5	PLEISTOCENE		CLAY	3.7	19.0	
418.8	MATTOON		LIMESTONE	2.3	22.7	
416.6	MATTOON		COAL	0.7	24.9	BLOOM
415.9	MATTOON		BLACK SHALE	0.2	25.6	
415.7	MATTOON		UNDERCLAY	5.7	25.8	
410.0	MATTOON		SHALE	0.8	31.5	
409.2	MATTOON		SANDSTONE	1.2	32.3	
408.0	MATTOON		GRAY SHALE	2.7	33.5	
405.3	MATTOON		SHALE	3.3	36.2	LAMINATED
402.0	MATTOON		SHALE & SANDSTONE	8.3	39.5	
393.7	MATTOON		SANDY SHALE	1.5	47.8	
392.2	MATTOON		CALCAREOUS SHALE	48.3	49.3	
343.9	MATTOON		BLACK SHALE	2.8	97.6	
341.2	MATTOON		CALCAREOUS SHALE	1.8	100.3	BLACK
339.3	MATTOON		COAL	1.0	102.2	BLOOM
338.3	MATTOON		UNDERCLAY	4.5	103.2	
333.8	BOND		SANDY SHALE	7.3	107.7	
326.5	BOND		LIMESTONE	0.3	115.0	
326.2	BOND		GRAY SHALE	27.1	115.3	LAMINATED
299.2	BOND		BLACK SHALE	1.8	142.3	
297.4	BOND		LIMESTONE	0.3	144.1	
297.1	BOND		SANDY SHALE	20.4	144.4	
276.7	BOND		GRAY SHALE	1.8	164.8	
274.8	BOND		GRAY SHALE	1.1	166.7	
273.7	BOND		SHALE	3.7	167.8	
270.1	BOND		SANDY SHALE	12.6	171.4	
257.5	BOND		SANDSTONE	8.5	184.0	LAMINATED
249.0	BOND		SANDSTONE	4.5	192.5	

MAPID: 18590133000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 35' N line, 46' E line of NE NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.83653 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.348174 DATE COLLECTED: 10 / 1 / 1970

SURFACE ELEVATION (FT.): 401.5 LOGGED (FT.): 197.9 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A225 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.5	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
395.5	PLEISTOCENE		CLAY	14.0	6.0	
381.5	PLEISTOCENE			3.0	20.0	
378.5	PLEISTOCENE		CLAY	10.0	23.0	
368.5	MATTOON		UNDERCLAY	0.7	33.0	
367.8	MATTOON		CALCAREOUS SHALE	0.8	33.7	
367.0	MATTOON		CALCAREOUS SHALE	3.5	34.5	
363.5	MATTOON		DARK SHALE	7.7	38.0	
355.8	MATTOON		DARK SHALE	0.8	45.7	
355.0	MATTOON		SANDY SHALE	6.8	46.5	
348.2	MATTOON		GRAY SHALE	13.9	53.3	LAMINATED
334.3	MATTOON		BLACK SHALE	1.8	67.2	
332.6	MATTOON		LIMESTONE	0.8	68.9	
331.7	MATTOON		COAL	0.6	69.8	
331.2	MATTOON		UNDERCLAY	1.4	70.3	
329.7	BOND		SANDY SHALE	35.2	71.8	
294.6	BOND		SANDY SHALE	2.0	106.9	
292.6	BOND		SANDSTONE	26.8	108.9	
265.8	BOND		GRAY SHALE	1.1	135.7	
264.7	BOND		SANDSTONE	5.0	136.8	
259.7	BOND		SANDSTONE	8.4	141.8	LAMINATED
251.3	BOND		SANDSTONE	19.6	150.2	
231.7	BOND		DARK SHALE	4.3	169.8	
227.4	BOND		LIMESTONE	3.1	174.1	
224.3	BOND		BLACK SHALE	1.4	177.2	
222.9	BOND		UNDERCLAY	0.4	178.6	
222.5	BOND		UNDERCLAY	0.7	179.0	
221.8	BOND		CALCAREOUS SHALE	18.3	179.7	

MAPID: 18590134000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 1263' N line, 513' E line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.851918 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.345015 DATE COLLECTED: 3 / 2 / 1970

SURFACE ELEVATION (FT.): 455.2 LOGGED (FT.): 458.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AST2-1 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.2	PLEISTOCENE		UNCONSOLIDATED	42.0	0.0	
413.2	PLEISTOCENE		CLAY	36.0	42.0	
377.2	MATTOON		GRAY SHALE	39.5	78.0	
337.7	MATTOON		BLACK SHALE	3.0	117.5	
334.7	MATTOON		COAL	0.8	120.5	FAIR
333.9	MATTOON		UNDERCLAY	6.0	121.3	
327.9	BOND		GRAY SANDSTONE	2.7	127.3	
325.2	BOND		GRAY SHALE	10.0	130.0	
315.2	BOND		CALCAREOUS SHALE	22.5	140.0	
292.7	BOND		BLACK SHALE	1.3	162.5	
291.4	BOND		BLACK SHALE	0.7	163.8	W/ BOULDER
290.7	BOND		GRAY SHALE	31.5	164.5	
259.2	BOND		SANDY SHALE	22.0	196.0	
237.2	BOND		GRAY SANDSTONE	42.0	218.0	
195.2	BOND		LIMESTONE	5.8	260.0	
189.4	BOND		GRAY SHALE	2.2	265.8	
187.2	BOND		BLACK SHALE	1.0	268.0	
186.2	BOND		GRAY SHALE	16.0	269.0	
170.2	BOND		COAL	0.9	285.0	FAIR
169.3	BOND		GRAY SANDSTONE	5.1	285.9	
164.2	BOND		CALCAREOUS SHALE	25.0	291.0	
139.2	BOND		SANDSTONE/SHALE	34.5	316.0	
104.7	BOND		CALCAREOUS SHALE	20.5	350.5	
84.2	BOND		GRAY SANDSTONE	13.0	371.0	
71.2	PATOKA		CALCAREOUS SHALE	10.0	384.0	
61.2	PATOKA		GRAY SANDSTONE	36.5	394.0	
24.7	PATOKA		LIMESTONE	4.9	430.5	WHITE, HARD
19.8	PATOKA		GRAY SHALE	0.6	435.4	
19.2	PATOKA		LIMESTONE	4.3	436.0	WHITE, HARD
14.9	PATOKA		GRAY SHALE	3.7	440.3	
11.2	PATOKA		GRAY SANDSTONE	14.0	444.0	

MAPID: 18590135000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 1' S line, 500' W line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.853084 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.333807 DATE COLLECTED: 9 / 23 / 1970
SURFACE ELEVATION (FT.): 389.4 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE C517P WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
389.4	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
383.4	PLEISTOCENE		SAND	67.5	6.0
315.9	MATTOON		GRAY SHALE	5.5	73.5
310.4	MATTOON		SANDY SHALE	13.0	79.0
297.4	MATTOON		BLACK SHALE	1.5	92.0
295.9	MATTOON		LIMESTONE	0.9	93.5
295.0	MATTOON		SANDY SHALE	33.6	94.4

MAPID: 18590136000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 270' E line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846628 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.334642 DATE COLLECTED: 9 / 24 / 1970
SURFACE ELEVATION (FT.): 386.6 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE C520AB WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
386.6	PLEISTOCENE		CLAY	10.0	0.0
376.6	PLEISTOCENE		SAND & GRAVEL	37.0	10.0
339.6	PLEISTOCENE		CLAY	13.0	47.0
326.6	MATTOON		GRAY SHALE	25.0	60.0
301.6	MATTOON		LIMESTONE	1.0	85.0
300.6	MATTOON		GRAY SHALE	22.0	86.0

MAPID: 18590137000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 365' W line of SW SE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.844413 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.334619 **DATE COLLECTED:** 9 / 24 / 1970
SURFACE ELEVATION (FT.): 390.6 **LOGGED (FT.):** 92.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C521A **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
390.6	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
382.6	PLEISTOCENE		SAND & GRAVEL	52.0	8.0	
330.6	MATTOON		GRAY SHALE	8.0	60.0	
322.6	MATTOON		BLACK SHALE	2.0	68.0	
320.6	MATTOON		LIMESTONE	1.3	70.0	
319.3	MATTOON		GRAY SHALE	20.7	71.3	HARD

MAPID: 18590138000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 515' N line, 441' W line of NW NW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.853143 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.347087 **DATE COLLECTED:** 4 / 14 / 1971
SURFACE ELEVATION (FT.): 448.3 **LOGGED (FT.):** 32.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE P8 **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.3	PLEISTOCENE		SANDY CLAY	6.0	0.0	
442.3	PLEISTOCENE		SAND	25.0	6.0	
417.3	MATTOON		SHALE	1.0	31.0	

MAPID: 18590139000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 415' N line, 441' W line of NW NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.843992 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.347235 **DATE COLLECTED:** 4 / 23 / 1971
SURFACE ELEVATION (FT.): 446.7 **LOGGED (FT.):** 27.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE P8A **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
446.7	PLEISTOCENE		CLAY	8.0	0.0	
438.7	PLEISTOCENE		CLAY	15.5	8.0	
423.2	PLEISTOCENE		CLAY	2.5	23.5	
420.7	MATTOON		SANDY SHALE	1.0	26.0	

MAPID: 18590140000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 615' N line, 441' W line of NW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844001 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.346685 DATE COLLECTED: 4 / 23 / 1971
SURFACE ELEVATION (FT.): 439.7 LOGGED (FT.): 33.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P8B WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.7	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
435.7	PLEISTOCENE		CLAY	4.0	4.0	
431.7	PLEISTOCENE		CLAY	13.0	8.0	BROWN
418.7	PLEISTOCENE		CLAY	3.0	21.0	GRAY
415.7	PLEISTOCENE		CLAY	8.6	24.0	
407.1			SANDY SHALE	0.4	32.6	

MAPID: 18590141000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 685' N line, 441' W line of NW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844002 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.346492 DATE COLLECTED: 4 / 23 / 1971
SURFACE ELEVATION (FT.): 432.8 LOGGED (FT.): 27.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P8C WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.8	PLEISTOCENE		UNCONSOLIDATED	7.5	0.0	
425.3	PLEISTOCENE		CLAY	6.2	7.5	BROWN
419.1	PLEISTOCENE		CLAY	6.3	13.7	GRAY
412.8	PLEISTOCENE		CLAY	6.3	20.0	
406.5			SANDY SHALE	0.7	26.3	

MAPID: 18590142000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 815' N line, 441' W line of NW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844007 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.346136 DATE COLLECTED: 4 / 23 / 1971
SURFACE ELEVATION (FT.): 425.8 LOGGED (FT.): 33.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P8D WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.8	PLEISTOCENE		SANDY CLAY	7.0	0.0	
418.8	PLEISTOCENE		CLAY	9.0	7.0	BROWN
409.8	PLEISTOCENE		CLAY	8.5	16.0	GRAY
401.3	PLEISTOCENE		CLAY	7.7	24.5	
393.6			SANDY SHALE	0.8	32.2	

MAPID: 18590143000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 315' N line, 441' W line of NW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.843989 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.347508 DATE COLLECTED: 4 / 23 / 1971
SURFACE ELEVATION (FT.): 445.5 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P8E WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.5	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
437.5	PLEISTOCENE		CLAY	16.0	8.0	
421.5	PLEISTOCENE		CLAY	0.8	24.0	
420.7			SANDY SHALE	0.2	24.8	

MAPID: 18590144000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 215' N line, 441' W line of NW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.843986 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.347784 DATE COLLECTED: 4 / 23 / 1971
SURFACE ELEVATION (FT.): 445.6 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P8F WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.6	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
439.6	PLEISTOCENE		CLAY	18.0	6.0	
421.6			SANDY SHALE	1.0	24.0	

MAPID: 18590146000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 133' S line, 334' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846723 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.345109 DATE COLLECTED: 4 / 21 / 1971
SURFACE ELEVATION (FT.): 403.9 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89A WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
403.9	PLEISTOCENE		UNCONSOLIDATED	7.5	0.0
396.4	PLEISTOCENE		CLAY	9.3	7.5
387.1	MATTOON		SANDY SHALE	3.2	16.8

MAPID: 18590147000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 134' S line, 267' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846488 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.345108 DATE COLLECTED: 4 / 21 / 1971
SURFACE ELEVATION (FT.): 406.7 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89A WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
406.7	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0
390.7	PLEISTOCENE		CLAY	3.0	16.0
387.7			SANDY SHALE	1.0	19.0

MAPID: 18590148000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 135' S line, 322' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846681 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.345114 DATE COLLECTED: 4 / 21 / 1971
SURFACE ELEVATION (FT.): 408.3 LOGGED (FT.): 21.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89C WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
408.3	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0
396.3	PLEISTOCENE		CLAY	8.9	12.0
387.4			SANDY SHALE	0.3	20.9

MAPID: 18590149000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 184' S line, 267' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846485 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.345246 DATE COLLECTED: 4 / 22 / 1971
SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 24.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89D WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
411.0	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
408.0	PLEISTOCENE		SANDY CLAY	20.0	3.0	
388.0			SHALE	1.0	23.0	BLUE

MAPID: 18590150000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 234' S line, 267' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846485 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.345385 DATE COLLECTED: 4 / 22 / 1971
SURFACE ELEVATION (FT.): 418.4 LOGGED (FT.): 27.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89E WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.4	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
415.4	PLEISTOCENE		SANDY CLAY	23.0	3.0	
392.4			SHALE	1.0	26.0	

MAPID: 18590151000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 84' S line, 267' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846491 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.34497 DATE COLLECTED: 4 / 22 / 1971
SURFACE ELEVATION (FT.): 403.2 LOGGED (FT.): 17.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89F WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
403.2	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
400.2	PLEISTOCENE		CLAY	11.0	3.0	
389.2	PLEISTOCENE		SANDY CLAY	2.0	14.0	
387.2	MATTOON		SHALE	1.0	16.0	

MAPID: 18590152000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 34' S line, 267' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846491 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.344835 DATE COLLECTED: 4 / 22 / 1971
SURFACE ELEVATION (FT.): 400.5 LOGGED (FT.): 16.0 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE P2-89G WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
400.5	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
397.5	PLEISTOCENE		CLAY	12.8	3.0	
384.7	MATTOON		SHALE	0.4	15.8	

MAPID: 18590153000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 28' S line, 39' E line of SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.836705 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.33371 DATE COLLECTED: 6 / 22 / 1992
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 46.5 LOG TYPE: Drillers Log
SOURCE: AMAX 92TH1 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.0	PLEISTOCENE		SANDY CLAY	12.0	0.0	
377.0	PLEISTOCENE			25.0	12.0	
352.0	PLEISTOCENE		CLAY	4.0	37.0	
348.0	PLEISTOCENE		CLAY	1.0	41.0	GRAY
347.0	MATTOON		GRAY SANDSTONE	1.5	42.0	
345.5	MATTOON		GRAY SHALE	3.0	43.5	SOFT

MAPID: 18590154000C VERSION: 1 PROJECT: NCRDS 02
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 575' N line, 71' E line of NE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.845875 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.339486 DATE COLLECTED: 2 / 17 / 1982
SURFACE ELEVATION (FT.): 389.1 LOGGED (FT.): 27.0 LOG TYPE: Drillers Log
SOURCE: AMAX OVB6 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.1	PLEISTOCENE			12.0	0.0	
377.1	PLEISTOCENE		SAND	15.0	12.0	

MAPID: 18590155000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 15

QUARTERS/FOOTAGES: NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.850131

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.344788

DATE COLLECTED: 2 / 18 / 1982

SURFACE ELEVATION (FT.): 445.0

LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: AMAX

OV B7

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0	PLEISTOCENE			12.0	0.0	
433.0	PLEISTOCENE		SAND	25.0	12.0	
408.0	PLEISTOCENE		SILTY CLAY	20.0	37.0	
388.0	PLEISTOCENE		SANDY CLAY	5.0	57.0	
383.0	MATTOON		SANDY SHALE	2.0	62.0	

MAPID: 18590247000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 25' N line, 25' W line of NW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.854658 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.341103 DATE COLLECTED: 3 / 13 / 1970

SURFACE ELEVATION (FT.): 388.5 LOGGED (FT.): 421.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AST2-6 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
388.5	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
379.5	PLEISTOCENE		SAND & GRAVEL	3.0	9.0	
376.5	MATTOON		SHALE & SANDSTONE	20.0	12.0	
356.5	MATTOON		DARK SHALE	18.0	32.0	
338.5	MATTOON	KEENSBURG	COAL	0.7	50.0	SOFT
337.8	MATTOON		UNDERCLAY	2.3	50.7	
335.5	MATTOON		GRAY SHALE	1.2	53.0	
334.3	MATTOON		LIMESTONE	1.8	54.2	
332.5	MATTOON		SHALE & SANDSTONE	34.0	56.0	
298.5	MATTOON	FRIENDSVILLE	COAL	3.5	90.0	FAIR
295.0	MATTOON		UNDERCLAY	1.5	93.5	
293.5	MATTOON		COAL	0.7	95.0	FAIR
292.8	MATTOON		SHALE & SANDSTONE	7.3	95.7	
285.5	MATTOON		GRAY SANDSTONE	22.0	103.0	
263.5	MATTOON		SHALE & SANDSTONE	57.0	125.0	
206.5	MATTOON		BLACK SHALE	4.0	182.0	
202.5	MATTOON		ROCK	0.7	186.0	
201.8	BOND	FLANNIGAN	COAL	1.3	186.7	GOOD
200.5	MATTOON		UNDERCLAY	2.0	188.0	
198.5	MATTOON		SHALE & SANDSTONE	5.0	190.0	
193.5	MATTOON		LIMESTONE	3.0	195.0	
190.5	MATTOON		SHALE & SANDSTONE	4.0	198.0	
186.5	MATTOON		GRAY SANDSTONE	3.0	202.0	
183.5	MATTOON		SHALE & SANDSTONE	13.0	205.0	
170.5	MATTOON		DARK SHALE	10.0	218.0	
160.5	MATTOON		BLACK SHALE	1.0	228.0	
159.5	MATTOON		LIMESTONE	1.6	229.0	
157.9			COAL	1.2	230.6	FAIR
156.7			UNDERCLAY	2.3	231.8	
154.5			SHALE & SANDSTONE	41.0	234.0	
113.5				11.0	275.0	
102.5			SHALE & SANDSTONE	35.0	286.0	
67.5			COAL	2.3	321.0	FAIR
65.2			SANDSTONE/SHALE	11.7	323.3	
53.5			GRAY SANDSTONE	36.0	335.0	
17.5			SANDSTONE/SHALE	22.3	371.0	
-4.8	SHELBURN	WEST FRANKLIN	LIMESTONE	2.1	393.3	
-6.9	SHELBURN	WEST FRANKLIN	GRAY SHALE	0.8	395.4	
-7.8	SHELBURN	WEST FRANKLIN	LIMESTONE	4.3	396.3	

-12.0	SHELBURN	SANDSTONE/SHALE	3.5	400.5	
-15.5	SHELBURN	GRAY SANDSTONE	1.5	404.0	HARD
-17.0	SHELBURN	GRAY SANDSTONE	8.5	405.5	
-25.5	SHELBURN	GRAY SHALE	7.0	414.0	

MAPID: 18590248000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 15 QUARTERS/FOOTAGES: 287' N line, 333' W line of NW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.853592 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.34037 DATE COLLECTED: 3 / 12 / 1970

SURFACE ELEVATION (FT.): 390.8 LOGGED (FT.): 398.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AST2-7 WELL TYPE: Coal Test

COMMENT: KEENSBURG BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
390.8	PLEISTOCENE	KEENSBURG	SANDY CLAY	8.0	0.0	
382.8	PLEISTOCENE		SAND & GRAVEL	13.0	8.0	
369.8	MATTOON		SHALE & SANDSTONE	28.0	21.0	
341.8	MATTOON		BLACK SHALE	4.5	49.0	
337.3	MATTOON		COAL	0.5	53.5	FAIR
336.8	MATTOON		UNDERCLAY	7.0	54.0	
329.8	MATTOON		LIMESTONE	1.0	61.0	
328.8	MATTOON		BROWN SHALE	11.0	62.0	SOFT
317.8	MATTOON		GRAY SHALE	17.5	73.0	
300.3	MATTOON		DARK SHALE	2.3	90.5	
298.0	MATTOON		BROWN LIMESTONE	1.7	92.8	
296.3	MATTOON		GRAY SHALE	18.0	94.5	
278.3	BOND		CALCAREOUS SHALE	16.5	112.5	
261.8	BOND		GRAY SHALE	13.5	129.0	HARD
248.3	BOND		CALCAREOUS SHALE	9.5	142.5	
238.8	BOND		GRAY SANDSTONE	13.0	152.0	
225.8	BOND		GRAY SHALE	5.0	165.0	
220.8	BOND		GRAY SANDSTONE	15.7	170.0	
205.1	BOND	FLANNIGAN	GRAY SHALE	8.2	185.7	HARD
197.0	BOND		LIMESTONE	4.2	193.8	WHITE
192.8	BOND		BLACK SHALE	2.8	198.0	
190.0	BOND		SANDSTONE/SHALE	18.2	200.8	
171.8	BOND		COAL	1.5	219.0	FAIR
170.3	BOND		UNDERCLAY	2.3	220.5	
168.0	BOND		CALCAREOUS SHALE	74.2	222.8	
93.8			COAL	0.8	297.0	FAIR
93.0			UNDERCLAY	5.7	297.8	
87.3			CALCAREOUS SHALE	64.0	303.5	
23.3			LIMESTONE	2.0	367.5	WHITE HARD
21.3			GRAY SHALE	3.1	369.5	
18.2			LIMESTONE	3.4	372.6	WHITE HARD
14.8			GRAY SHALE	4.0	376.0	
10.8			LIMESTONE	2.5	380.0	HARD
8.3			GRAY SHALE	15.5	382.5	

MAPID: 18500051000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 630' N line, 325' E line of NE
 QUADRANGLE: KEENSBURG LONGITUDE: -87.855824 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.346799 DATE COLLECTED: 0 / 0 / 1942
 SURFACE ELEVATION (FT.): 446.1 LOGGED (FT.): 280.0 LOG TYPE: Drillers Log
 SOURCE: NICK POTTS WELL TYPE: Coal Test
 COMMENT: NO COMPANY NUMBER GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
446.1	MATTOON		SAND	25.0	0.0	SAND AND QUICKSAND
421.1	MATTOON		MUD	9.0	25.0	
412.1	MATTOON		MUD	34.0	34.0	
378.1	MATTOON		GRAY SHALE	2.0	68.0	
376.1	MATTOON		DARK SHALE	15.0	70.0	
361.1	MATTOON		LIGHT SHALE	3.0	85.0	
358.1	MATTOON		GRAY SHALE	32.0	88.0	
326.1	MATTOON	FRIENDSVILLE	COAL	3.0	120.0	THICKNESS IS PROBABLY NOT ACCURATE
323.1	BOND		LIMESTONE	3.0	123.0	
320.1	BOND		GRAY SHALE	2.0	126.0	
318.1	BOND		SANDSTONE	21.0	128.0	
297.1	BOND		DARK SHALE	63.0	149.0	
234.1	BOND		LIMESTONE	2.0	212.0	
232.1	BOND		GRAY SHALE	4.0	214.0	
228.1	BOND		LIMESTONE	12.0	218.0	
216.1	BOND		DARK SHALE	23.0	230.0	
193.1	BOND	FLANNIGAN	COAL	2.0	253.0	THICKNESS IS PROBABLY NOT ACCURATE
191.1	BOND		LIMESTONE	1.0	255.0	
190.1	BOND		GRAY SHALE	19.0	256.0	
171.1	BOND	CARTHAGE	LIMESTONE	3.0	275.0	
168.1	PATOKA		DARK SHALE	2.0	278.0	

MAPID: 18500060000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 115' W line of NW NW SW
 QUADRANGLE: KEENSBURG LONGITUDE: -87.872668 GEOLOGIST: BRISTOL
 CONFIDENTIAL: N LATITUDE: 38.340466 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2389.0 LOG TYPE:
 SOURCE: MGM CORPORATION WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	450.0	
-277.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	677.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1989.0		BASE BARLOW	LIMESTONE	-	2389.0	

MAPID: 18500087000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 338' E line of SW NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.86964 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.344135 DATE COLLECTED:
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2388.0 LOG TYPE:
SOURCE: TIDEWATER OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	434.0
-242.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	650.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1980.0		BASE BARLOW	LIMESTONE	-	2388.0

MAPID: 18500204000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 158' E line of NW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.869044 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.340426 DATE COLLECTED:
SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2393.0 LOG TYPE:
SOURCE: DUNCAN, WALTER WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-44.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	450.0
-264.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1987.0		BASE BARLOW	LIMESTONE	-	2393.0

MAPID: 18500395000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.87195 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.336753 DATE COLLECTED:
SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2386.0 LOG TYPE:
SOURCE: BRIDGE, FRANK WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-54.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	448.0
-281.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1992.0		BASE BARLOW	LIMESTONE	-	2386.0

MAPID: 18500395000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.87195 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.336753 DATE COLLECTED:

SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2562.0 LOG TYPE: Electric Log

SOURCE: BRIDGE, FRANK WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-286.0	CARBONDALE	HERRIN	COAL	3.0	680.0
-342.0	CARBONDALE	BRIAR HILL	COAL	-	736.0
-436.0	CARBONDALE	SPRINGFIELD	COAL	9.0	830.0
-526.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 18500396000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.867372 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.336708 DATE COLLECTED:

SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2416.0 LOG TYPE:

SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	490.0
-299.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	692.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2023.0		BASE BARLOW	LIMESTONE	-	2416.0

MAPID: 18501026000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' S line, 482' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.871361 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.342276 DATE COLLECTED:

SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 2393.0 LOG TYPE:

SOURCE: TIDEWATER OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-38.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-278.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1986.0		BASE BARLOW	LIMESTONE	-	2393.0

MAPID: 18501028000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 16

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.867278

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.345927

DATE COLLECTED:

SURFACE ELEVATION (FT.): 410.0

LOGGED (FT.): 2397.0

LOG TYPE:

SOURCE: FOTIADES HARRY ETAL

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	442.0	
-248.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	658.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1987.0		BASE BARLOW	LIMESTONE	-	2397.0	

MAPID: 18501031000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 200' N line, 200' W line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.872292 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.348237 DATE COLLECTED: 11 / 0 / 1939

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2471.0 LOG TYPE: Drillers Log

SOURCE: GULF REFINING CO. 2 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1164'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
414.0			UNCONSOLIDATED	135.0	0.0	
279.0	BOND		SHALE	62.0	135.0	
217.0	BOND		SANDY SHALE	26.0	197.0	
191.0	BOND		SHALE	23.0	223.0	
168.0	BOND	CARTHAGE	LIMESTONE	11.0	246.0	
157.0	PATOKA		SHALE	193.0	257.0	
-36.0	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	450.0	
-44.0	SHELBURN		COAL	2.0	458.0	THICKNESS IS PROBABLY NOT ACCURATE
-46.0	SHELBURN		SANDSTONE	60.0	460.0	
-106.0	SHELBURN		SHALE	35.0	520.0	
-141.0	SHELBURN		SHALE	90.0	555.0	
-231.0	SHELBURN		LIMESTONE	30.0	645.0	
-261.0	SHELBURN		SHALE	65.0	675.0	
-326.0	CARBONDALE		SANDY SHALE	77.0	740.0	
-403.0	CARBONDALE	SPRINGFIELD	COAL	6.0	817.0	THICKNESS IS PROBABLY NOT ACCURATE
-409.0	CARBONDALE		SHALE	37.0	823.0	
-446.0	CARBONDALE		SANDSTONE	55.0	860.0	
-501.0	CARBONDALE		SHALE	50.0	915.0	
-551.0	CARBONDALE		SANDY SHALE	72.0	965.0	
-623.0	CARBONDALE		SHALE	13.0	1037.0	
-636.0			LIMESTONE	15.0	1050.0	
-651.0			SANDY SHALE	50.0	1065.0	
-701.0			SANDSTONE	30.0	1115.0	
-731.0			LIMESTONE	15.0	1145.0	
-746.0			COAL	4.0	1160.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18502142000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.858098 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.347663 DATE COLLECTED:
SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 2743.0 LOG TYPE:
SOURCE: IL MID-CONT. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	494.0
-271.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	710.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2049.0		BASE BARLOW	LIMESTONE	-	2488.0
-2304.0	RENAULT	BASE RENAULT	LIMESTONE	-	2743.0

MAPID: 18502768000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.862679 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.347733 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 690.0 LOG TYPE:
SOURCE: LYNCH OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-35.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	466.0
-259.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0

MAPID: 18504724000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' S line, 355' W line of SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.871881 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.334867 DATE COLLECTED:
SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2403.0 LOG TYPE:
SOURCE: CASTLE JAMES WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-52.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	446.0
-284.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2009.0		BASE BARLOW	LIMESTONE	-	2403.0

MAPID: 18504725000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.869686 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.33673 DATE COLLECTED:
SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2395.0 LOG TYPE:
SOURCE: CASTLE JAMES WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-72.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	464.0
-303.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	695.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2003.0		BASE BARLOW	LIMESTONE	-	2395.0

MAPID: 18505024000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 320' E line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.864957 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.347766 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 680.0 LOG TYPE:
SOURCE: BOWERS, MAURICE W. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	460.0
-246.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	680.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18505203000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.871841 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.347872 DATE COLLECTED:
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 2670.0 LOG TYPE:
SOURCE: GULF OIL CORPORATION WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-25.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-249.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	664.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1988.0		BASE BARLOW	LIMESTONE	-	2403.0
-2255.0	RENAULT	BASE RENAULT	LIMESTONE	-	2670.0

MAPID: 18505275000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 16 **QUARTERS/FOOTAGES:** 380' N line, 330' W line of NE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.862682 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.347595 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 2694.0 **LOG TYPE:**
SOURCE: BEARD, FRANCIS L. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-30.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	465.0
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1991.0		BASE BARLOW	LIMESTONE	-	2426.0
-2259.0	RENAULT	BASE RENAULT	LIMESTONE	-	2694.0

MAPID: 18505277000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.869573 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.347837 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 420.0 **LOGGED (FT.):** 2673.0 **LOG TYPE:**
SOURCE: ASHOFF, J. F., JR. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-22.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	442.0
-246.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	666.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1991.0		BASE BARLOW	LIMESTONE	-	2411.0
-2253.0	RENAULT	BASE RENAULT	LIMESTONE	-	2673.0

MAPID: 18505762000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 16 **QUARTERS/FOOTAGES:** 990' N line, 660' W line of SW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.870775 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.338623 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 395.0 **LOGGED (FT.):** 2386.0 **LOG TYPE:**
SOURCE: GETTY OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	450.0
-288.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	683.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1991.0		BASE BARLOW	LIMESTONE	-	2386.0

MAPID: 18526453000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 150' N line, 2500' W line of NW
 QUADRANGLE: KEENSBURG LONGITUDE: -87.864231 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 38.348253 DATE COLLECTED: 11 / 11 / 1978
 SURFACE ELEVATION (FT.): LOGGED (FT.): 280.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Water Well
 COMMENT: NO ELEVATION GIVEN IN LOG.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCLASSIFIED	60.0	0.0	NO ENTRY IN LOG
-	MATTOON	FRIENDSVILLE	COAL	2.0	60.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	2.0	62.0	
-	BOND		DARK SHALE	2.0	64.0	
-	BOND		SANDSTONE	9.0	66.0	
-	BOND		DARK SHALE	95.0	75.0	
-	BOND		COAL	3.0	170.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	1.0	173.0	
-	BOND		DARK SHALE	3.0	174.0	
-	BOND		GRAY SHALE	3.0	177.0	
-	BOND	FLANNIGAN	COAL	2.0	180.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	3.0	182.0	
-	BOND		DARK SHALE	5.0	185.0	
-	BOND		SANDY SHALE	20.0	190.0	
-	BOND		GRAY SHALE	25.0	210.0	
-	BOND	MT. CARMEL	SANDSTONE	45.0	235.0	

MAPID: 18527127000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 680' N line, 585' E line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.856735 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.346674 DATE COLLECTED: 0 / 0 / 1982
 SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 894.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL T2-287 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0			NO RECORD	840.0	0.0	
-402.0	CARBONDALE	DYKERSBURG	SHALE	27.0	840.0	MED GRAY
-429.0			UNKNOWN	9.0	867.0	INCLUDES SPRINGFIELD COAL
-438.0			SILTSTONE	15.0	876.0	MED GRAY
-453.0			SANDSTONE	3.0	891.0	LT GRAY

MAPID: 18527128000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 70' S line, 1700' E line

QUADRANGLE: KEENSBURG LONGITUDE: -87.860783 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.334063 DATE COLLECTED: 0 / 0 / 1982

SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 926.7 LOG TYPE: Survey Core Study

SOURCE: AMAX COAL T2-289 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.0			NO RECORD	860.0	0.0	
-474.0	CARBONDALE	DYKERSBURG	SHALE	8.5	860.0	MED GRAY
-482.5			SHALE	30.5	868.5	
-513.0	CARBONDALE	SPRINGFIELD	COAL	8.0	899.0	GAP - REMOVED BY COMPANY
-521.0			MUDSTONE	0.5	907.0	OLV GRAY
-521.5			SILTSTONE	9.0	907.5	
-530.5			SANDSTONE	10.2	916.5	LT GRAY

MAPID: 18527146000C VERSION: 1 PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 2550' S line, 1200' E line

QUADRANGLE: KEENSBURG LONGITUDE: -87.858954 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.340896 DATE COLLECTED: 0 / 0 / 1982

SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 879.0 LOG TYPE: Survey Core Study

SOURCE: AMAX COAL T2-288 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
391.0			NO RECORD	840.0	0.0	
-449.0	CARBONDALE	DYKERSBURG	SHALE	18.8	840.0	MED GRAY
-467.8			NO RECORD	9.7	858.8	MISSING - INCLUDES SPRINGFIELD #5 COAL
-477.5			SILTSTONE	6.0	868.5	GRAY
-483.5			SANDSTONE	1.0	874.5	LT GRAY
-484.5			SILTSTONE	3.5	875.5	MED GRAY

MAPID: 18527488000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 16

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.871978

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.334885

DATE COLLECTED: 9 / 2 / 1983

SURFACE ELEVATION (FT.):

LOGGED (FT.): 243.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	6.0	0.0	
-			SANDSTONE	22.0	6.0	
-			GRAY SHALE	11.0	28.0	
-			COAL	1.0	39.0	THICKNESS IS PROBABLY NOT ACCURATE
-			CALCAREOUS SANDSTONE	15.0	40.0	
-			GRAY SHALE	5.0	55.0	
-			SANDSTONE	35.0	60.0	
-			DARK SHALE	36.0	95.0	
-			COAL	2.0	131.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	42.0	133.0	
-			DARK SHALE	23.0	175.0	
-			SANDSTONE	45.0	198.0	

MAPID: 18590156000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 254' S line, 987' W line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.869575 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.345744 DATE COLLECTED: 6 / 16 / 1982

SURFACE ELEVATION (FT.): 401.8 LOGGED (FT.): 820.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-293 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
401.8	PLEISTOCENE		SANDY CLAY	11.0	0.0
390.8	PLEISTOCENE		UNCONSOLIDATED	3.0	11.0
387.8	PLEISTOCENE			8.0	14.0
379.8	PLEISTOCENE		SAND	18.0	22.0
361.8	PLEISTOCENE		UNCONSOLIDATED	10.0	40.0
351.8	MATTOON			4.0	50.0
347.8	MATTOON		SANDY SHALE	44.0	54.0
303.8	MATTOON	FRIENDSVILLE	COAL	2.5	98.0
301.3	BOND		SANDY SHALE	50.5	100.5
250.8	BOND		LIMESTONE	1.0	151.0
249.8	BOND		SANDY SHALE	7.5	152.0
242.3	BOND		LIMESTONE	0.5	159.5
241.8	BOND		DARK SHALE	5.0	160.0
236.8	BOND		SANDY SHALE	87.0	165.0
149.8	PATOKA		LIMESTONE	6.0	252.0
143.8	PATOKA		SANDY SHALE	109.0	258.0
34.8	PATOKA		BROWN LIMESTONE	3.0	367.0
31.8	PATOKA		SANDY SHALE	61.0	370.0
-29.2	SHELBURN		LIMESTONE	4.0	431.0
-33.2	SHELBURN		SANDY SHALE	119.0	435.0
-152.2	SHELBURN		BROWN LIMESTONE	1.0	554.0
-153.2	SHELBURN		SANDY SHALE	69.0	555.0
-222.2	SHELBURN	DANVILLE	COAL	3.0	624.0
-225.2	SHELBURN		GRAY SHALE	2.0	627.0
-227.2	SHELBURN		BROWN LIMESTONE	3.0	629.0
-230.2	SHELBURN		SANDY SHALE	12.0	632.0
-242.2	SHELBURN		GRAY SHALE	2.0	644.0
-244.2	SHELBURN		BROWN LIMESTONE	2.0	646.0
-246.2	CARBONDALE		GRAY SHALE	52.0	648.0
-298.2	CARBONDALE		SANDY SHALE	80.0	700.0
-378.2	CARBONDALE		GRAY SHALE	16.7	780.0
-394.9	CARBONDALE	SPRINGFIELD	COAL	6.4	796.7
-401.3	CARBONDALE		GRAY SHALE	5.1	803.1
-406.4	CARBONDALE		SILTSTONE	9.8	808.2
-416.2	CARBONDALE		SILTSTONE	2.0	818.0 CALCAREOUS

MAPID: 18590157000C

VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 16

QUARTERS/FOOTAGES: 10' N line, 464' E line of NE SE

QUADRANGLE: KEENSBURG

LONGITUDE: -87.856361

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.341166

DATE COLLECTED: 2 / 17 / 1982

SURFACE ELEVATION (FT.): 390.3

LOGGED (FT.): 15.0

LOG TYPE: Drillers Log

SOURCE: AMAX

OV5

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
390.3	PLEISTOCENE		SILT	5.0	0.0	
385.3	PLEISTOCENE			5.0	5.0	
380.3	PLEISTOCENE		SAND & GRAVEL	3.0	10.0	
377.3	MATTOON		DARK SHALE	2.0	13.0	

MAPID: 18590158000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 50' S line, 54' W line of NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.863749 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.337723 DATE COLLECTED: 8 / 13 / 1984

SURFACE ELEVATION (FT.): 387.8 LOGGED (FT.): 891.8 LOG TYPE: Drillers Log

SOURCE: AMAX T2-318 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
387.8	PLEISTOCENE		SANDY CLAY	6.0	0.0
381.8	PLEISTOCENE		SAND & GRAVEL	27.0	6.0
354.8	PLEISTOCENE		UNCONSOLIDATED	10.0	33.0
344.8	MATTOON		SANDY SHALE	34.0	43.0
310.8	MATTOON		LIMESTONE	1.5	77.0
309.3	MATTOON	FRIENDSVILLE	COAL	3.5	78.5
305.8	BOND		UNDERCLAY	2.5	82.0
303.3	BOND		LIMESTONE	3.5	84.5
299.8	BOND		SANDY SHALE	8.0	88.0
291.8	BOND		GRAY SHALE	8.5	96.0
283.3	BOND		GRAY SHALE	28.5	104.5
254.8	BOND		SANDY SHALE	33.5	133.0
221.3	BOND		BLACK SHALE	1.5	166.5
219.8	BOND		LIMESTONE	3.0	168.0
216.8	BOND	WITT	COAL	0.8	171.0
216.0	BOND		UNDERCLAY	2.9	171.8
213.1	BOND		LIMESTONE	4.3	174.7
208.8	BOND		GRAY SHALE	11.0	179.0
197.8	BOND		DARK SHALE	17.0	190.0
180.8	BOND		BLACK SHALE	1.0	207.0
179.8	BOND	FLANNIGAN	COAL	1.7	208.0
178.1	BOND		GRAY SHALE	17.3	209.7
160.8	BOND		SANDY SHALE	29.0	227.0
131.8	BOND			8.0	256.0
123.8	BOND		SANDY SHALE	9.0	264.0
114.8	BOND		SANDSTONE	30.0	273.0
84.8	BOND		GRAY SHALE	8.5	303.0
76.3	PATOKA		BROWN LIMESTONE	5.5	311.5
70.8	PATOKA		BLACK SHALE	3.0	317.0
67.8	PATOKA		GRAY SHALE	14.0	320.0
53.8	PATOKA		GRAY SANDSTONE	9.0	334.0
44.8	PATOKA		SANDY SHALE	47.0	343.0
-2.2	PATOKA		GRAY SHALE	29.0	390.0
-31.2	PATOKA		GRAY SANDSTONE	75.0	419.0
-106.2	SHELBURN		BROWN LIMESTONE	3.0	494.0
-109.2	SHELBURN		GRAY SHALE	5.0	497.0
-114.2	SHELBURN		SANDY SHALE	14.0	502.0
-128.2	SHELBURN		GRAY SHALE	24.0	516.0
-152.2	SHELBURN		SANDY SHALE	125.0	540.0

-277.2	SHELBURN		GRAY SHALE	17.0	665.0	
-294.2	SHELBURN	DANVILLE	COAL	3.0	682.0	
-297.2	SHELBURN		UNDERCLAY	8.0	685.0	
-305.2	SHELBURN		BROWN LIMESTONE	4.0	693.0	
-309.2	SHELBURN		GRAY SHALE	4.0	697.0	
-313.2	SHELBURN			8.0	701.0	
-321.2	SHELBURN			2.0	709.0	
-323.2	SHELBURN		GRAY SHALE	2.0	711.0	
-325.2	CARBONDALE	HERRIN	COAL	3.4	713.0	
-328.6	CARBONDALE		UNDERCLAY	4.6	716.4	
-333.2	CARBONDALE		SANDY SHALE	29.0	721.0	
-362.2	CARBONDALE		GRAY SHALE	19.0	750.0	
-381.2	CARBONDALE		BLACK SHALE	2.0	769.0	
-383.2	CARBONDALE		GRAY SHALE	9.0	771.0	
-392.2	CARBONDALE		SANDY SHALE	65.4	780.0	
-457.6	CARBONDALE		GRAY SHALE	14.6	845.4	
-472.2	CARBONDALE		DARK SHALE	0.4	860.0	
-472.6	CARBONDALE	SPRINGFIELD	COAL	7.2	860.4	
-479.8	CARBONDALE		CARBONACEOUS SHALE	0.6	867.6	
-480.4	CARBONDALE		UNDERCLAY	2.0	868.2	
-482.4	CARBONDALE		SILTY SHALE	10.2	870.2	
-492.6	CARBONDALE		SANDY SHALE	10.4	880.4	
-503.0	CARBONDALE		SANDSTONE	1.0	890.8	FINE

MAPID: 18590249000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 16 QUARTERS/FOOTAGES: 247' S line, 244' W line of NE NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.858426 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.345577 DATE COLLECTED: 9 / 11 / 1985

SURFACE ELEVATION (FT.): 423.9 LOGGED (FT.): 860.0 LOG TYPE: Drillers Log

SOURCE: AMAX RDH#3 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
423.9	PLEISTOCENE		SAND	17.0	0.0	BROWN
406.9	PLEISTOCENE		SAND	21.0	17.0	GRAY
385.9	MATTOON		SHALE	18.0	38.0	BLUE
367.9	MATTOON	KEENSBURG	COAL	1.0	56.0	
366.9	MATTOON		SHALE	10.0	57.0	BLUE
356.9	MATTOON		LIMESTONE	1.5	67.0	
355.4	MATTOON		GRAY SHALE	21.5	68.5	
333.9	MATTOON		LIMESTONE	1.0	90.0	
332.9	MATTOON	FRIENDSVILLE	COAL	3.0	91.0	
329.9	BOND		DARK SHALE	3.0	94.0	
326.9	BOND		LIMESTONE	0.5	97.0	
326.4	BOND		GRAY SHALE	3.5	97.5	
322.9	BOND		LIMESTONE	1.0	101.0	
321.9	BOND		SANDSTONE/SHALE	11.0	102.0	
310.9	BOND		DARK SHALE	71.0	113.0	
239.9	BOND		BLACK SHALE	5.0	184.0	
234.9	BOND		DARK SHALE	34.0	189.0	
200.9	BOND		BLACK SHALE	2.0	223.0	
198.9	BOND	REEL	LIMESTONE	1.0	225.0	
197.9	BOND	REEL	BROWN LIMESTONE	2.0	226.0	
195.9	BOND	FLANNIGAN	COAL	1.0	228.0	
194.9	BOND		GRAY SHALE	53.0	229.0	
141.9	BOND		SANDSTONE/SHALE	33.0	282.0	
108.9	BOND		CALCAREOUS SHALE	10.0	315.0	
98.9			LIMESTONE & SHALE	5.0	325.0	
93.9			COAL	5.0	330.0	
88.9			COAL WITH SHALE	4.0	335.0	
84.9			GRAY SHALE	18.0	339.0	
66.9			GRAY SHALE	17.0	357.0	MUDDY
49.9			SANDY SHALE	46.0	374.0	
3.9			CALCAREOUS SHALE	5.0	420.0	
-1.1			SANDY SHALE	4.0	425.0	
-5.1			SHALE	6.0	429.0	
-11.1			GRAY SHALE	25.0	435.0	
-36.1			SANDSTONE/LIMESTONE	3.0	460.0	
-39.1			GRAY SANDSTONE	8.0	463.0	
-47.1			SANDY SHALE	28.0	471.0	
-75.1			CALCAREOUS SHALE	1.0	499.0	
-76.1			CALCAREOUS SHALE	4.0	500.0	

-80.1			GRAY SHALE	13.0	504.0	
-93.1	SHELburn		CALCAREOUS SHALE	4.0	517.0	
-97.1	SHELburn		GRAY SHALE	33.0	521.0	
-130.1	SHELburn		SHALE	1.0	554.0	
-131.1	SHELburn		GRAY SHALE	94.0	555.0	
-225.1	SHELburn		SHALE	19.0	649.0	
-244.1	SHELburn		GRAY SHALE	18.0	668.0	
-262.1	SHELburn	DANVILLE	COAL	2.0	686.0	#7?
-264.1	SHELburn		GRAY SHALE	5.5	688.0	
-269.6	SHELburn		BROWN LIMESTONE	4.5	693.5	
-274.1	SHELburn		GRAY SHALE	12.0	698.0	
-286.1	CARBONDALE	HERRIN	COAL	1.0	710.0	#6?
-287.1	CARBONDALE		SHALE	14.0	711.0	
-301.1	CARBONDALE		SANDY SHALE	5.0	725.0	
-306.1	CARBONDALE		GRAY SHALE	1.0	730.0	
-307.1	CARBONDALE		CALCAREOUS SHALE	13.0	731.0	
-320.1	CARBONDALE		GRAY SHALE	70.0	744.0	
-390.1	CARBONDALE		CALCAREOUS SHALE	2.0	814.0	
-392.1	CARBONDALE		SANDY SHALE	1.0	816.0	
-393.1	CARBONDALE		CALCAREOUS SHALE	2.0	817.0	
-395.1	CARBONDALE		CALCAREOUS SHALE	27.0	819.0	GRAY
-422.1	CARBONDALE		CALCAREOUS SHALE	14.0	846.0	

MAPID: 18501038000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 256' N line, 316' E line of SE NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.87414 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.344375 DATE COLLECTED: 9 / 0 / 1939

SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2419.0 LOG TYPE: Drillers Log

SOURCE: TIDE WATER ASSOC. OIL CO. 1 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 818'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
408.0			UNCONSOLIDATED	12.0	0.0	SURFACE SOIL
396.0	BOND		SANDSTONE	56.0	12.0	
340.0	BOND		CALCAREOUS SHALE	52.0	68.0	
288.0	BOND		COAL	7.0	120.0	THICKNESS IS PROBABLY NOT ACCURATE
281.0	BOND		CALCAREOUS SHALE	19.0	127.0	
262.0	BOND		SHALE	34.0	146.0	
228.0	BOND		SANDY SHALE	55.0	180.0	
173.0	BOND	CARTHAGE	LIMESTONE	15.0	235.0	
158.0	MODESTO		SHALE	108.0	250.0	
50.0	MODESTO		COAL	4.0	358.0	THICKNESS IS PROBABLY NOT ACCURATE
46.0	MODESTO		SANDSTONE	18.0	362.0	
28.0	MODESTO		SHALE	50.0	380.0	
-22.0	MODESTO		SANDSTONE	40.0	430.0	
-62.0	MODESTO		SHALE	42.0	470.0	
-104.0	MODESTO		SANDY SHALE	9.0	512.0	
-113.0	MODESTO		NO RECORD	100.0	521.0	NO RECORD GIVEN IN LOG
-213.0			LIMESTONE	14.0	621.0	
-227.0			SHALE	25.0	635.0	
-252.0			LIMESTONE	12.0	660.0	
-264.0			SHALE	33.0	672.0	
-297.0	CARBONDALE		SANDY SHALE	60.0	705.0	
-357.0	CARBONDALE		SHALE	47.0	765.0	ADJUSTMENT TO MATCH LOG DEPTH
-404.0	CARBONDALE	SPRINGFIELD	COAL	6.0	812.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501373000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.880957 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.336698 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2765.0 LOG TYPE: Electric Log
 SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-262.0	CARBONDALE	HERRIN	COAL	-	668.0	
-318.0	CARBONDALE	BRIAR HILL	COAL	-	724.0	
-414.0	CARBONDALE	SPRINGFIELD	COAL	9.0	820.0	
-508.0	CARBONDALE	HOUCHIN CREEK	COAL	-	914.0	

MAPID: 18501374000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.878704 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.342241 DATE COLLECTED: 4 / 0 / 1940
 SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 2431.0 LOG TYPE: Drillers Log
 SOURCE: TIDE WATER ASSOC. OIL CO. 7 WELL TYPE: Dry Hole
 COMMENT: NO COAL REPORTED DEEPER THAN 1415'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
409.0			SANDY CLAY	35.0	0.0	
374.0			SANDSTONE	33.0	35.0	SS W/ SH STREAKS
341.0			SHALE	147.0	68.0	
194.0			CALCAREOUS SHALE	145.0	215.0	
49.0			SHALE	75.0	360.0	
-26.0	SHELBURN	WEST FRANKLIN	LIMESTONE	10.0	435.0	
-36.0	SHELBURN		SHALE	361.0	445.0	
-397.0	CARBONDALE	SPRINGFIELD	COAL	7.0	806.0	THICKNESS IS PROBABLY NOT ACCURATE
-404.0	CARBONDALE		SHALE	29.0	813.0	
-433.0	CARBONDALE		SANDSTONE	178.0	842.0	
-611.0	CARBONDALE	DAVIS	COAL	5.0	1020.0	THICKNESS IS PROBABLY NOT ACCURATE
-616.0	TRADEWATER		SANDY SHALE	55.0	1025.0	
-671.0	TRADEWATER		SANDSTONE	55.0	1080.0	
-726.0	TRADEWATER		SHALE	144.0	1135.0	
-870.0	TRADEWATER		CALCAREOUS SHALE	100.0	1279.0	
-970.0	TRADEWATER		SANDY SHALE	31.0	1379.0	
-1001.0	TRADEWATER		COAL	5.0	1410.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18504732000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 990' N line, 990' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.885561

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.338533

DATE COLLECTED: 11 / 0 / 1939

SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 2478.0

LOG TYPE: Drillers Log

SOURCE: CONTINENTAL OIL CO. 1

WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1015'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
409.0			SANDY SHALE	90.0	0.0	
319.0			LIMESTONE	215.0	90.0	
104.0	PATOKA		SHALE	124.0	305.0	
-20.0	SHELBURN	WEST FRANKLIN	LIMESTONE	61.0	429.0	
-81.0	SHELBURN		SHALE	126.0	490.0	
-207.0	SHELBURN		COAL	2.0	616.0	THICKNESS IS PROBABLY NOT ACCURATE
-209.0	SHELBURN		SHALE	23.0	618.0	
-232.0	SHELBURN	DANVILLE	COAL	2.0	641.0	THICKNESS IS PROBABLY NOT ACCURATE
-234.0	SHELBURN		SHALE	12.0	643.0	
-246.0	SHELBURN		SANDSTONE	5.0	655.0	
-251.0	SHELBURN		SHALE	40.0	660.0	
-291.0	CARBONDALE	HERRIN	COAL	6.0	700.0	THICKNESS IS PROBABLY NOT ACCURATE
-297.0	CARBONDALE		SANDY SHALE	44.0	706.0	
-341.0	CARBONDALE		SHALE	45.0	750.0	
-386.0	CARBONDALE	SPRINGFIELD	COAL	8.0	795.0	THICKNESS IS PROBABLY NOT ACCURATE
-394.0	CARBONDALE		SANDY SHALE	77.0	803.0	
-471.0	CARBONDALE		LIMESTONE	35.0	880.0	
-506.0	CARBONDALE		LIMESTONE	15.0	915.0	
-521.0	CARBONDALE		SANDSTONE	10.0	930.0	
-531.0	CARBONDALE	HOUCHIN CREEK	COAL	10.0	940.0	THICKNESS IS PROBABLY NOT ACCURATE
-541.0	CARBONDALE		LIMESTONE	10.0	950.0	
-551.0	CARBONDALE		SANDSTONE	47.0	960.0	
-598.0	CARBONDALE	COLCHESTER	COAL	8.0	1007.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18528104000C VERSION: 1

PROJECT: AVAIL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 52' S line, 477' E line of SE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.874804 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.334096 DATE COLLECTED: 6 / 11 / 1982

SURFACE ELEVATION (FT.): 400.7 LOGGED (FT.): 1028.7 LOG TYPE: Drillers Log

SOURCE: AMAX T2-291 WELL TYPE: Coal Test

COMMENT: WABASH BOX27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
400.7	PLEISTOCENE		UNKNOWN	18.0	0.0
382.7	PLEISTOCENE		BOULDER	2.0	18.0
380.7			CLAY	8.0	20.0
372.7			SHALY COAL	2.0	28.0
370.7			UNKNOWN	4.0	30.0
366.7			BROWN LIMESTONE	3.0	34.0
363.7			DARK SHALE	10.0	37.0
353.7			SANDY SHALE	3.0	47.0
350.7			BROWN LIMESTONE	2.0	50.0
348.7			SANDY SHALE	5.0	52.0
343.7			SANDSTONE	3.0	57.0
340.7			GRAY SANDSTONE	15.0	60.0
325.7			GRAY SHALE	9.0	75.0
316.7			GRAY SANDSTONE	3.0	84.0
313.7			GRAY SHALE	46.0	87.0
267.7			GRAY SANDSTONE	2.0	133.0
265.7			SANDY SHALE	14.5	135.0
251.2			LIMESTONE	0.5	149.5
250.7			DARK SHALE	17.0	150.0
233.7			BROWN LIMESTONE	3.0	167.0
230.7			GRAY SHALE	1.0	170.0
229.7			COAL	1.5	171.0
228.2			GRAY SHALE	19.5	172.5
208.7			SANDSTONE	45.0	192.0
163.7			SANDY SHALE	28.0	237.0
135.7			LIMESTONE	4.0	265.0
131.7			BLACK SHALE	2.0	269.0
129.7			DARK SHALE	104.0	271.0
25.7			SANDSTONE	5.0	375.0
20.7			SANDY SHALE	63.0	380.0
-42.3			LIMESTONE	7.0	443.0
-49.3			GRAY SHALE	10.0	450.0
-59.3			SANDY SHALE	61.5	460.0
-120.8			GRAY LIMESTONE	1.5	521.5
-122.3			SANDY SHALE	54.0	523.0
-176.3			SANDY SHALE	13.0	577.0
-189.3			DARK SHALE	58.0	590.0
-247.3	CARBONDALE	DANVILLE	COAL	1.5	648.0
-248.8	CARBONDALE		UNDERCLAY	1.5	649.5

-250.3	CARBONDALE		LIMESTONE	4.0	651.0	
-254.3	CARBONDALE		SANDY SHALE	9.0	655.0	
-263.3	CARBONDALE	BRERETON	LIMESTONE	4.5	664.0	
-267.8	CARBONDALE	ANNA	DARK SHALE	2.5	668.5	
-270.3	CARBONDALE	HERRIN	COAL	1.3	671.0	
-271.6	CARBONDALE		GRAY SHALE	3.9	672.3	
-275.5	CARBONDALE		SILTSTONE	6.7	676.2	
-282.2	CARBONDALE		SANDSTONE	7.1	682.9	
-289.3	CARBONDALE		SANDSTONE	9.9	690.0	
-299.2	CARBONDALE		SANDSTONE	1.1	699.9	
-300.3	CARBONDALE		SILTSTONE	26.3	701.0	
-326.6	CARBONDALE		BLACK SHALE	1.8	727.3	
-328.4	CARBONDALE	BRIAR HILL	COAL	0.5	729.1	
-328.9	CARBONDALE		SANDSTONE	1.9	729.6	
-330.8	CARBONDALE		SANDY SHALE	28.5	731.5	
-359.3	CARBONDALE		DARK SHALE	29.4	760.0	
-388.7	CARBONDALE	SPRINGFIELD	COAL	5.1	789.4	
-393.8	CARBONDALE		UNDERCLAY	0.3	794.5	
-394.1	CARBONDALE		SILTSTONE	2.5	794.8	
-396.6	CARBONDALE		SILTSTONE	16.5	797.3	GRAY
-413.1	CARBONDALE		GRAY SANDSTONE	2.2	813.8	
-415.3	CARBONDALE		SANDY SHALE	64.0	816.0	
-479.3	CARBONDALE		GRAY SHALE	20.0	880.0	
-499.3	CARBONDALE		BLACK SHALE & COAL	6.0	900.0	
-505.3	CARBONDALE		GRAY SHALE	8.0	906.0	
-513.3	CARBONDALE		CARBONACEOUS SHALE	2.0	914.0	
-515.3	CARBONDALE		GRAY SHALE	59.0	916.0	
-574.3	CARBONDALE		SILTSTONE	16.0	975.0	
-590.3	CARBONDALE		BLACK SHALE	12.7	991.0	
-603.0	CARBONDALE	LOWER DEKOVEN	COAL	1.6	1003.7	
-604.6	CARBONDALE		DARK SHALE	1.0	1005.3	
-605.6	CARBONDALE	DAVIS	COAL	5.2	1006.3	
-610.8			GRAY SHALE	15.6	1011.5	
-626.4			BLACK SHALE	1.6	1027.1	

MAPID: 18590018000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 1106' S line, 511' W line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.88032 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.336962 DATE COLLECTED: 7 / 25 / 1990

SURFACE ELEVATION (FT.): 399.5 LOGGED (FT.): 849.3 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-433 WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
399.5	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
391.5	PLEISTOCENE		SAND	11.0	8.0	
380.5	BOND		GREEN SHALE	2.0	19.0	
378.5	BOND		BROWN SHALE	15.0	21.0	SANDY
363.5	BOND		GREEN SHALE	11.0	36.0	
352.5	BOND		SANDSTONE	7.0	47.0	GRAY
345.5	BOND		SANDY SHALE	12.0	54.0	
333.5	BOND		SANDSTONE	8.0	66.0	GRAY
325.5	BOND		GREEN SHALE	36.0	74.0	
289.5	BOND		SANDY SHALE	28.5	110.0	
261.0	BOND		SANDSTONE	1.0	138.5	GRAY
260.0	BOND		SANDY SHALE	23.5	139.5	
236.5	BOND		SANDSTONE	6.0	163.0	GRAY
230.5	BOND		SANDY SHALE	15.0	169.0	
215.5	BOND	MT. CARMEL	SANDSTONE	62.0	184.0	GRAY
153.5	BOND	CARTHAGE	LIMESTONE	4.0	246.0	BROWN
149.5	MODESTO		BLACK SHALE	2.0	250.0	
147.5	MODESTO		GREEN SHALE	60.0	252.0	
87.5	MODESTO		LIMESTONE	2.0	312.0	BROWN
85.5	MODESTO		GREEN SHALE	27.0	314.0	
58.5	MODESTO		BLACK SHALE	1.0	341.0	
57.5	MODESTO		SANDY SHALE	85.0	342.0	
-27.5	MODESTO		BLACK SHALE	2.0	427.0	
-29.5	MODESTO		GREEN SHALE	4.5	429.0	
-34.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.5	433.5	BROWN
-37.5	MODESTO	FARMINGTON	SANDY SHALE	191.5	437.0	
-229.0	CARBONDALE	DANVILLE	COAL	2.5	628.5	APPROXIMATE THICKNESS
-231.5	CARBONDALE		UNDERCLAY	2.0	631.0	
-233.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	633.0	BROWN
-238.5	CARBONDALE		GREEN SHALE	13.0	638.0	
-251.5	CARBONDALE	BRERETON	LIMESTONE	3.0	651.0	GRAY
-254.5	CARBONDALE	ANNA	BLACK SHALE	1.5	654.0	
-256.0	CARBONDALE	HERRIN	COAL	4.3	655.5	APPROXIMATE THICKNESS
-260.3	CARBONDALE		UNDERCLAY	1.2	659.8	
-261.5	CARBONDALE		GREEN SHALE	7.0	661.0	
-268.5	CARBONDALE		SANDSTONE	14.0	668.0	GRAY
-282.5	CARBONDALE	DYKERSBURG	SANDY SHALE	133.4	682.0	
-415.9	CARBONDALE	SPRINGFIELD	COAL	8.0	815.4	APPROXIMATE THICKNESS
-423.9	CARBONDALE		GREEN SHALE	3.0	823.4	

-426.9	CARBONDALE	SILTSTONE	3.3	826.4
-430.2	CARBONDALE	SILTY SHALE	18.4	829.7
-448.6	CARBONDALE	LIMESTONE	0.7	848.1
-449.3	CARBONDALE	SILTY SHALE	0.5	848.8

MAPID: 18590159000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 557' N line, 97' E line of NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.873411 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.339853 DATE COLLECTED: 6 / 14 / 1982

SURFACE ELEVATION (FT.): 399.2 LOGGED (FT.): 857.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-292 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
399.2	PLEISTOCENE		SANDY CLAY	11.0	0.0
388.2	PLEISTOCENE		UNCONSOLIDATED	34.0	11.0
354.2	MATTOON		DARK SHALE	4.0	45.0
350.2	MATTOON		SANDY SHALE	4.0	49.0
346.2	MATTOON			32.0	53.0
314.2	BOND		SANDY SHALE	65.5	85.0
248.7	BOND		LIMESTONE	0.5	150.5
248.2	BOND		SANDY SHALE	11.0	151.0
237.2	BOND		BROWN LIMESTONE	1.5	162.0
235.7	BOND		SANDY SHALE	36.5	163.5
199.2	BOND			67.0	200.0
132.2	BOND		BROWN LIMESTONE	6.0	267.0
126.2			BLACK SHALE	3.0	273.0
123.2			SANDY SHALE	80.0	276.0
43.2			BLACK SHALE	3.0	356.0
40.2			SANDY SHALE	16.0	359.0
24.2				8.0	375.0
16.2			SANDY SHALE	17.0	383.0
-0.8			DARK SHALE	37.0	400.0
-37.8			BLACK SHALE	2.0	437.0
-39.8			SANDY SHALE	7.0	439.0
-46.8			LIMESTONE	9.0	446.0
-55.8			GRAY SHALE	120.0	455.0
-175.8	SHELBURN		SANDY SHALE	35.0	575.0
-210.8	SHELBURN		GRAY SHALE	44.0	610.0
-254.8	SHELBURN		BROWN LIMESTONE	4.0	654.0
-258.8	SHELBURN		GRAY SHALE	11.0	658.0
-269.8	SHELBURN	BRERETON	BROWN LIMESTONE	2.0	669.0
-271.8	CARBONDALE	HERRIN	COAL	4.0	671.0
-275.8	CARBONDALE		GRAY SHALE	10.0	675.0
-285.8	CARBONDALE		SANDY SHALE	50.0	685.0
-335.8	CARBONDALE		DARK SHALE	10.0	735.0
-345.8	CARBONDALE		SANDY SHALE	41.0	745.0
-386.8	CARBONDALE		SILTSTONE	2.0	786.0
-388.8	CARBONDALE		GRAY SHALE	41.7	788.0
-430.5	CARBONDALE	SPRINGFIELD	COAL	7.5	829.7
-438.0	CARBONDALE		DARK SHALE	0.8	837.2
-438.8	CARBONDALE		GRAY SHALE	14.5	838.0
-453.3	CARBONDALE		SILTSTONE	4.5	852.5

MAPID: 18590160000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 450' N line, 175' E line of SE NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.882631 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.34376 DATE COLLECTED: 8 / 20 / 1985

SURFACE ELEVATION (FT.): 400.9 LOGGED (FT.): 818.1 LOG TYPE: Drillers Log

SOURCE: AMAX T2-337 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
400.9	PLEISTOCENE		CLAY	6.0	0.0	
394.9	PLEISTOCENE		SAND	4.0	6.0	
390.9	PLEISTOCENE		SAND & GRAVEL	44.0	10.0	
346.9			GRAY SHALE	82.0	54.0	
264.9				2.0	136.0	
262.9			GRAY SHALE	92.0	138.0	
170.9			BROWN LIMESTONE	2.0	230.0	
168.9			GRAY SHALE	11.0	232.0	
157.9			BROWN LIMESTONE	5.0	243.0	
152.9			GRAY SHALE	174.0	248.0	
-21.1	SHELBURN		LIMESTONE	7.0	422.0	
-28.1	SHELBURN		GRAY SHALE	49.0	429.0	
-77.1	SHELBURN		GRAY SANDSTONE	8.0	478.0	
-85.1	SHELBURN		GRAY SHALE	131.0	486.0	
-216.1	SHELBURN	DANVILLE	COAL	2.0	617.0	
-218.1	SHELBURN		UNDERCLAY	3.0	619.0	
-221.1	SHELBURN		GRAY SHALE	3.0	622.0	
-224.1	SHELBURN		LIMESTONE	5.0	625.0	
-229.1	SHELBURN		GRAY SANDSTONE	8.5	630.0	
-237.6	SHELBURN	BRERETON	LIMESTONE	3.5	638.5	
-241.1	CARBONDALE	HERRIN	COAL	4.0	642.0	
-245.1	CARBONDALE		UNDERCLAY	3.0	646.0	
-248.1	CARBONDALE		GRAY SANDSTONE	18.0	649.0	
-266.1	CARBONDALE		GRAY SHALE	122.3	667.0	
-388.4	CARBONDALE	SPRINGFIELD	COAL	7.3	789.3	
-395.7	CARBONDALE		UNDERCLAY	1.6	796.6	
-397.3	CARBONDALE		GRAY SHALE	3.9	798.2	
-401.2	CARBONDALE		SANDSTONE	16.0	802.1	ARGILLACEOUS

MAPID: 18590250000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 362' N line, 61' E line of SW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.886832 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.336565 DATE COLLECTED: 7 / 8 / 1982

SURFACE ELEVATION (FT.): 399.6 LOGGED (FT.): 818.8 LOG TYPE: Drillers Log

SOURCE: AMAX T2-302 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
399.6	PLEISTOCENE		CLAY	6.0	0.0	
393.6	PLEISTOCENE		SAND	12.0	6.0	
381.6				19.0	18.0	
362.6			GRAY SANDSTONE	9.0	37.0	
353.6			SANDY SHALE	51.0	46.0	
302.6				1.0	97.0	
301.6			SANDY SHALE	21.0	98.0	
280.6			BROWN LIMESTONE	3.0	119.0	
277.6			SANDY SHALE	13.0	122.0	
264.6			GRAY SANDSTONE	91.0	135.0	
173.6			LIMESTONE	5.0	226.0	
168.6			DARK SHALE	30.0	231.0	
138.6			DARK SHALE	9.0	261.0	
129.6			SANDY SHALE	30.0	270.0	
99.6			GRAY SANDSTONE	18.0	300.0	
81.6			SANDY SHALE	83.0	318.0	
-1.4			DARK SHALE	2.0	401.0	
-3.4			COAL	2.0	403.0	CHAPEL HILL?
-5.4			UNDERCLAY	1.0	405.0	
-6.4			GRAY SHALE	7.0	406.0	
-13.4	SHELBURN		BROWN LIMESTONE	5.0	413.0	
-18.4	SHELBURN		GRAY SANDSTONE	26.0	418.0	
-44.4	SHELBURN		DARK SHALE	163.0	444.0	
-207.4	SHELBURN	DANVILLE	COAL	3.0	607.0	
-210.4	SHELBURN		UNDERCLAY	2.0	610.0	
-212.4	SHELBURN		DARK SHALE	2.0	612.0	
-214.4	SHELBURN		BROWN LIMESTONE	4.0	614.0	
-218.4	SHELBURN		GRAY SHALE	12.0	618.0	
-230.4	SHELBURN		BROWN LIMESTONE	2.0	630.0	
-232.4	SHELBURN		GRAY SHALE	2.0	632.0	
-234.4	CARBONDALE	HERRIN	COAL	4.0	634.0	
-238.4	CARBONDALE		UNDERCLAY	2.0	638.0	
-240.4	CARBONDALE		GRAY SANDSTONE	10.0	640.0	
-250.4	CARBONDALE		BROWN LIMESTONE	2.0	650.0	
-252.4	CARBONDALE		GRAY SANDSTONE	4.0	652.0	
-256.4	CARBONDALE		SANDY SHALE	11.0	656.0	
-267.4	CARBONDALE		DARK SHALE	13.0	667.0	
-280.4	CARBONDALE		SANDY SHALE	85.0	680.0	
-365.4	CARBONDALE		SILTSTONE	3.5	765.0	

-368.9	CARBONDALE		GRAY SHALE	20.9	768.5	
-389.8	CARBONDALE	SPRINGFIELD	COAL	4.1	789.4	UPPER
-393.9	CARBONDALE		SHALE	3.6	793.5	& COAL PARTING
-397.5	CARBONDALE	SPRINGFIELD	COAL	1.7	797.1	LOWER
-399.2	CARBONDALE		DARK SHALE	1.6	798.8	
-400.8	CARBONDALE		GRAY SHALE	10.0	800.4	
-410.8	CARBONDALE		SILTSTONE	8.4	810.4	

MAPID: 18590251000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 17 QUARTERS/FOOTAGES: 475' N line, 995' W line of NW NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.878502 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.347435 DATE COLLECTED: 7 / 27 / 1982

SURFACE ELEVATION (FT.): 401.7 LOGGED (FT.): 831.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-303 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.7	PLEISTOCENE		CLAY	13.0	0.0	
388.7	PLEISTOCENE		SAND & GRAVEL	54.0	13.0	
334.7	PLEISTOCENE		SAND	23.0	67.0	
311.7			GRAY SHALE	22.0	90.0	
289.7			COAL	2.0	112.0	
287.7			GRAY SHALE	31.0	114.0	
256.7			BLACK SHALE	2.0	145.0	
254.7			GRAY SHALE	56.0	147.0	
198.7			LIMESTONE	12.0	203.0	
186.7			SANDY SHALE	35.0	215.0	
151.7			LIMESTONE	5.0	250.0	
146.7			GRAY SHALE	3.0	255.0	
143.7			SHALY COAL	3.0	258.0	
140.7			SANDY SHALE	32.0	261.0	
108.7			LIMESTONE	3.0	293.0	
105.7			GRAY SHALE	114.0	296.0	
-8.3			SANDY SHALE	24.0	410.0	
-32.3	SHELBURN		LIMESTONE	6.0	434.0	
-38.3	SHELBURN		GRAY SHALE	70.0	440.0	
-108.3	SHELBURN			10.0	510.0	
-118.3	SHELBURN		SANDY SHALE	115.0	520.0	
-233.3	SHELBURN	DANVILLE	COAL	1.5	635.0	
-234.8	SHELBURN		UNDERCLAY	1.5	636.5	
-236.3	SHELBURN		LIMESTONE	4.5	638.0	
-240.8	SHELBURN		GRAY SHALE	9.0	642.5	
-249.8	SHELBURN		LIMESTONE	4.5	651.5	
-254.3	CARBONDALE	ANNA	DARK SHALE	3.0	656.0	
-257.3	CARBONDALE	HERRIN	COAL	3.0	659.0	
-260.3	CARBONDALE		UNDERCLAY	1.0	662.0	
-261.3	CARBONDALE		SANDY SHALE	124.1	663.0	
-385.4	CARBONDALE		GRAY SHALE	14.3	787.1	
-399.7	CARBONDALE	SPRINGFIELD	COAL	7.6	801.4	
-407.3	CARBONDALE		SHALE/UNDERCLAY	1.7	809.0	
-409.0	CARBONDALE		GRAY SANDSTONE	20.2	810.7	ARGILLACEOUS
-429.2	CARBONDALE		UNKNOWN	0.1	830.9	LOST CORE

MAPID: 18502629000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 18

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.896369

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.345865

DATE COLLECTED:

SURFACE ELEVATION (FT.): 405.0

LOGGED (FT.): 2825.0

LOG TYPE: Electric Log

SOURCE: RUNYON, DELBERT H.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-242.0	CARBONDALE	HERRIN	COAL	3.0	647.0	
-299.0	CARBONDALE	BRIAR HILL	COAL	-	704.0	
-368.0	CARBONDALE	SPRINGFIELD	COAL	6.0	773.0	
-480.0	CARBONDALE	HOUCHIN CREEK	COAL	-	885.0	

MAPID: 18590252000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 18 QUARTERS/FOOTAGES: 360' N line, 70' E line of NE NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.891183 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.347616 DATE COLLECTED: 7 / 27 / 1982

SURFACE ELEVATION (FT.): 405.4 LOGGED (FT.): 849.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-304 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
405.4	PLEISTOCENE		SANDY CLAY	8.0	0.0	
397.4	PLEISTOCENE		SAND	13.0	8.0	
384.4	PLEISTOCENE		SAND & GRAVEL	49.0	21.0	
335.4	PLEISTOCENE		UNCONSOLIDATED	31.0	70.0	
304.4	BOND		SANDY SHALE	9.0	101.0	
295.4	BOND		GRAY SHALE	7.0	110.0	
288.4	BOND		LIMESTONE	2.0	117.0	
286.4	BOND		GRAY SHALE	30.0	119.0	
256.4	BOND		LIMESTONE	1.0	149.0	
255.4	BOND		GRAY SHALE	8.0	150.0	
247.4	BOND			2.0	158.0	
245.4	BOND		SANDY SHALE	4.0	160.0	
241.4	BOND		GRAY SHALE	7.0	164.0	
234.4	BOND		GRAY SANDSTONE	91.0	171.0	
143.4	BOND		COAL	1.0	262.0	BRISTOL HILL?
142.4	BOND		BROWN LIMESTONE	3.0	263.0	
139.4	BOND		GRAY SHALE	37.0	266.0	
102.4	BOND		SANDY SHALE	40.0	303.0	
62.4	BOND		GRAY SHALE	13.0	343.0	
49.4	BOND		COAL	2.0	356.0	FLANNIGAN?
47.4	BOND		GRAY SHALE	78.0	358.0	
-30.6	PATOKA		BLACK SHALE	1.0	436.0	
-31.6	PATOKA		COAL	2.0	437.0	CHAPEL HILL?
-33.6	PATOKA		UNDERCLAY	1.0	439.0	
-34.6	SHELBURN		GRAY SHALE	7.0	440.0	
-41.6	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	7.0	447.0	
-48.6	SHELBURN	WEST FRANKLIN	GRAY SHALE	5.0	454.0	
-53.6	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	1.0	459.0	
-54.6	SHELBURN			3.0	460.0	
-57.6	SHELBURN		GRAY SHALE	67.0	463.0	
-124.6	SHELBURN		GRAY SANDSTONE	6.0	530.0	
-130.6	SHELBURN		GRAY SHALE	120.0	536.0	
-250.6	SHELBURN		BROWN LIMESTONE	20.0	656.0	
-270.6	CARBONDALE	HERRIN	COAL	4.0	676.0	
-274.6	CARBONDALE		GRAY SHALE	10.0	680.0	
-284.6	CARBONDALE		SANDY SHALE	16.0	690.0	
-300.6	CARBONDALE		BROWN LIMESTONE	2.0	706.0	
-302.6	CARBONDALE		GRAY SHALE	32.0	708.0	
-334.6	CARBONDALE	BRIAR HILL	COAL	2.0	740.0	

-336.6	CARBONDALE		GRAY SANDSTONE	10.0	742.0	
-346.6	CARBONDALE		GRAY SHALE	15.0	752.0	
-361.6	CARBONDALE	SPRINGFIELD	COAL	2.0	767.0	UPPER
-363.6	CARBONDALE		GRAY SHALE	21.5	769.0	
-385.2	CARBONDALE		SILTY SHALE	34.9	790.6	
-420.1	CARBONDALE	SPRINGFIELD	COAL	1.4	825.5	LOWER
-421.5	CARBONDALE		SILTY SHALE	2.8	826.9	
-424.3	CARBONDALE		SILTSTONE	19.3	829.7	

MAPID: 18502448000C

VERSION: 1

COUNTY: WABASH

QUADRANGLE: GRAYVILLE

CONFIDENTIAL: N

SURFACE ELEVATION (FT.): 409.0

SOURCE: FARRAR, FLETCHER F.

COMMENT:

TWP/RNG: 2S 13W

SECTION: 19

LONGITUDE: -87.90791

LATITUDE: 38.323864

LOGGED (FT.): 2607.0

PROJECT: CIRC 431

QUARTERS/FOOTAGES: 330' S line, 990' E line of NE SW

GEOLOGIST: HOPKINS

DATE COLLECTED:

LOG TYPE: Electric Log

WELL TYPE: Producer-Oil

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-251.0	CARBONDALE	HERRIN	COAL	2.0	660.0
-309.0	CARBONDALE	BRIAR HILL	COAL	-	718.0
-371.0	CARBONDALE	SPRINGFIELD	COAL	10.0	780.0
-463.0	CARBONDALE	HOUCHIN CREEK	COAL	-	872.0

MAPID: 18504766000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 19

QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.89629

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.32016

DATE COLLECTED: 0 / 0 / 1939

SURFACE ELEVATION (FT.):

LOGGED (FT.): 1715.0

LOG TYPE: Drillers Log

SOURCE: W.N. BARTLETT 1

WELL TYPE: Dry Hole

COMMENT: NO ELEVATION IN LOG. COAL ONLY TO 770'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SAND	80.0	0.0	
-			SHALE	80.0	80.0	
-			SANDSTONE	88.0	160.0	
-			LIMESTONE	5.0	248.0	
-			SHALE	11.0	253.0	
-			SANDSTONE	24.0	264.0	
-			SHALE	7.0	288.0	
-			SANDSTONE	10.0	295.0	
-			LIMESTONE	80.0	305.0	
-			SANDSTONE	15.0	385.0	
-			SHALE	19.0	400.0	
-			COAL	1.0	419.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SHALE	13.0	420.0	
-	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	433.0	
-	SHELBURN	WEST FRANKLIN	SHALE	7.0	440.0	
-	SHELBURN	WEST FRANKLIN	LIMESTONE	21.0	447.0	
-	SHELBURN		SHALE	13.0	468.0	
-	SHELBURN		COAL	1.0	481.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	18.0	482.0	
-	SHELBURN		CALCAREOUS SHALE	45.0	500.0	
-	SHELBURN		SANDY SHALE	35.0	545.0	
-	SHELBURN		SHALE	28.0	580.0	
-	SHELBURN	DANVILLE	COAL	2.0	608.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	2.0	610.0	
-	SHELBURN		LIMESTONE	15.0	612.0	
-	SHELBURN		SHALE	1.0	627.0	
-	SHELBURN	BRERETON	LIMESTONE	12.0	628.0	
-	CARBONDALE	HERRIN	COAL	1.0	640.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	3.0	641.0	
-	CARBONDALE		SANDSTONE	4.0	644.0	
-	CARBONDALE		SANDY SHALE	48.0	648.0	
-	CARBONDALE		SANDSTONE	9.0	696.0	
-	CARBONDALE		SANDY SHALE	63.0	705.0	
-	CARBONDALE	SPRINGFIELD	COAL	2.0	768.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18528682000C VERSION: 1

PROJECT: NCRDS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 19 QUARTERS/FOOTAGES: 2405' N line, 397' W line
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.916136 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 38.327411 DATE COLLECTED: 5 / 16 / 2005
 SURFACE ELEVATION (FT.): 398.3 LOGGED (FT.): 819.0 LOG TYPE: Survey Core Study
 SOURCE: WABASH MINE HOLDING CO. T2-602 WELL TYPE: Coal Test
 COMMENT: COWLING SLOPE; GAMMA DENS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
398.3	PLEISTOCENE		SOIL	2.0	0.0	
396.3	PLEISTOCENE		CLAY	4.0	2.0	
392.3	PLEISTOCENE		SAND & GRAVEL	18.0	6.0	
374.3	PLEISTOCENE		MUD	39.0	24.0	
335.3			SANDSTONE	8.0	63.0	BEDROCK TOP
327.3			SHALE	5.0	71.0	
322.3			SANDSTONE	9.0	76.0	
313.3			SHALE	4.0	85.0	
309.3			SANDY SHALE	10.0	89.0	
299.3	BOND	WITT	COAL	1.0	99.0	UNCERTAIN CORRELATION
298.3	BOND		CLAYSTONE & SILTSTONE	4.0	100.0	
294.3	BOND		SANDSTONE	5.0	104.0	
289.3	BOND		SANDY SHALE	17.0	109.0	
272.3	BOND		BLACK SHALE	2.0	126.0	REEL LIMESTONE POSITION
270.3	BOND		SANDY SHALE	16.0	128.0	
254.3	BOND	MT. CARMEL	SANDSTONE	110.0	144.0	
144.3			SHALE & SANDSTONE	30.0	254.0	
114.3			COAL WITH SHALE	2.5	284.0	CORING BEGINS 260'
111.8			MUDSTONE	2.5	286.5	
109.3			SANDY SHALE	16.5	289.0	
92.8			SHALY SANDSTONE	10.1	305.5	
82.7			CARBONACEOUS SHALE	0.5	315.6	COALIFIED PLANT REMAINS
82.2			MUDSTONE	6.9	316.1	
75.3	PATOKA		SILTY SHALE	23.0	323.0	
52.3	PATOKA	MACOUPIN	FOSSILIFEROUS SHALE	1.2	346.0	CALCAREOUS, BRACHIOPODS
51.1	PATOKA		BLACK SHALE	2.3	347.2	
48.8	PATOKA	WOMAC	COAL	0.5	349.5	
48.3	PATOKA		MUDSTONE	11.0	350.0	OLIVE-GREEN GRAY, SLICKENSIDED
37.3	PATOKA		SILTSTONE	7.0	361.0	
30.3	PATOKA		SANDSTONE/SHALE	64.2	368.0	
-33.9	PATOKA	CRAMER	FOSSILIFEROUS SHALE	0.8	432.2	
-34.7	PATOKA		GRAY & BLACK SHALE	1.9	433.0	
-36.6	PATOKA		FOSSILIFEROUS SHALE	1.1	434.9	
-37.7	PATOKA	CHAPEL	COAL	0.8	436.0	BRIGHT-BANDED, CALCITE CLEAT
-38.5	PATOKA		CLAYSTONE & SILTSTONE	8.7	436.8	
-47.2	PATOKA		SANDY SHALE	1.9	445.5	
-49.1	SHELBURN	WEST FRANKLIN	LIMESTONE	3.2	447.4	
-52.3	SHELBURN	WEST FRANKLIN	MUDSTONE	5.9	450.6	

-58.2	SHELBURN	WEST FRANKLIN	LIMESTONE	11.9	456.5	
-70.1	SHELBURN	WEST FRANKLIN	CLAYSTONE & SILTSTONE	0.8	468.4	
-70.9	SHELBURN	WEST FRANKLIN	LIMESTONE	0.9	469.2	
-71.8	SHELBURN		CLAYSTONE & SILTSTONE	3.2	470.1	
-75.0	SHELBURN		SHALY SILTSTONE	92.5	473.3	
-167.5	SHELBURN		SHALY SANDSTONE	20.2	565.8	
-187.7	SHELBURN		SILTY SHALE	39.0	586.0	
-226.7	SHELBURN		CLAY & SHALE	17.0	625.0	
-243.7	SHELBURN	DANVILLE	COAL	3.3	642.0	
-247.0	SHELBURN		CLAYSTONE & SILTSTONE	4.5	645.3	
-251.4	SHELBURN	BANKSTON FORK	LIMESTONE	3.5	649.7	
-254.9	SHELBURN		SHALE & SANDSTONE	11.0	653.2	
-265.9	SHELBURN	BRERETON	LIMESTONE	6.8	664.2	
-272.7	CARBONDALE	ANNA	BLACK SHALE	0.7	671.0	
-273.4	CARBONDALE	HERRIN	COAL	3.8	671.7	
-277.1	CARBONDALE		CLAYSTONE & SILTSTONE	2.6	675.4	
-279.7	CARBONDALE		CLAY	1.0	678.0	
-280.7	CARBONDALE		SANDSTONE	3.0	679.0	
-283.7	CARBONDALE		SHALE & SILTSTONE	45.5	682.0	
-329.2	CARBONDALE	BRIAR HILL	COAL	0.6	727.5	
-329.8	CARBONDALE		SANDSTONE	6.2	728.1	
-336.0	CARBONDALE	DYKERSBURG	SILTY SHALE	59.6	734.3	
-395.6	CARBONDALE	SPRINGFIELD	COAL	5.5	793.9	MISSING, THK FROM COMPANY LOG
-400.7	CARBONDALE		SILTSTONE	8.0	799.0	
-408.7	CARBONDALE		SILTSTONE/SANDSTONE	12.0	807.0	

MAPID: 18590063000C VERSION: 1

PROJECT: ISGS98

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 19 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SW

QUADRANGLE: MOUNT CARMEL LONGITUDE: -87.915289

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.32113

DATE COLLECTED: 9 / 30 / 1994

SURFACE ELEVATION (FT.): 428.5 LOGGED (FT.): 853.0

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. T2-548

WELL TYPE: Coal Test

COMMENT: WABASH MINE,CORE DESC & G-LOG AVAIL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.5	PLEISTOCENE		SAND	11.0	0.0	
417.5	PLEISTOCENE		UNCONSOLIDATED	53.0	11.0	
364.5	PLEISTOCENE		SAND	2.0	64.0	
362.5	PLEISTOCENE		UNCONSOLIDATED	29.0	66.0	
333.5	MATTOON		SAND	2.5	95.0	WEATHERED
331.0	MATTOON		GRAY SHALE	4.2	97.5	WEATHERED
326.8	MATTOON		SANDY SHALE	21.5	101.7	
305.3	MATTOON		GRAY SHALE & LIMESTONE	0.7	123.2	
304.6	MATTOON		BLACK SHALE	1.8	123.9	
302.8	MATTOON		LIMESTONE	0.9	125.7	
301.9	MATTOON	FRIENDSVILLE	COAL	0.7	126.6	
301.2	MATTOON		UNDERCLAY	3.7	127.3	
297.5	BOND	LIVINGSTON	CLAYSTONE	11.9	131.0	LIMY
285.6	BOND		GRAY SHALE	10.4	142.9	
275.2	BOND		LIMESTONE	0.4	153.3	
274.8	BOND		DARK SHALE	1.2	153.7	
273.6	BOND		LIMESTONE	0.7	154.9	
272.9	BOND		SHALE	0.3	155.6	COAL STREAKS
272.6	BOND		GRAY SHALE	4.2	155.9	
268.4	BOND	MT. CARMEL	SHALY SANDSTONE	8.2	160.1	
260.2	BOND	MT. CARMEL	SANDSTONE	8.7	168.3	
251.5	BOND	MT. CARMEL	SANDSTONE	97.0	177.0	
154.5	BOND	CARTHAGE	LIMESTONE	4.0	274.0	
150.5	MODESTO		SANDSTONE	2.0	278.0	
148.5	MODESTO		SANDY SHALE	15.0	280.0	
133.5	MODESTO		SANDSTONE	22.0	295.0	
111.5	MODESTO		SANDY SHALE	36.0	317.0	
75.5	MODESTO	WOMAC	COAL	0.6	353.0	
74.9	MODESTO		SANDY SHALE	98.5	353.6	
-23.6	MODESTO		BLACK SHALE	1.4	452.1	
-25.0	MODESTO		SANDY SHALE	10.0	453.5	
-35.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	463.5	BROWN
-37.0	MODESTO	WEST FRANKLIN	GRAY SHALE	3.0	465.5	
-40.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	468.5	BROWN
-51.0	MODESTO		SANDY SHALE	112.5	479.5	
-163.5	MODESTO		SANDSTONE	28.0	592.0	
-191.5	MODESTO		SANDY SHALE	43.0	620.0	
-234.5	CARBONDALE	DANVILLE	COAL	3.3	663.0	

-237.8	CARBONDALE		UNDERCLAY	2.7	666.3
-240.5	CARBONDALE		SANDY SHALE	2.5	669.0
-243.0	CARBONDALE		LIMESTONE	2.5	671.5
-245.5	CARBONDALE		SANDY SHALE	15.0	674.0
-260.5	CARBONDALE	BRERETON	LIMESTONE	4.0	689.0
-264.5	CARBONDALE	ANNA	BLACK SHALE	1.0	693.0
-265.5	CARBONDALE	HERRIN	COAL	4.2	694.0
-269.7	CARBONDALE		UNDERCLAY	1.8	698.2
-271.5	CARBONDALE		SANDY SHALE	5.0	700.0
-276.5	CARBONDALE		SANDSTONE	10.0	705.0
-286.5	CARBONDALE		SANDY SHALE	37.0	715.0
-323.5	CARBONDALE	BRIAR HILL	COAL	0.7	752.0
-324.2	CARBONDALE	DYKERSBURG	SANDY SHALE	68.5	752.7
-392.7	CARBONDALE	SPRINGFIELD	COAL	5.8	821.2
-398.5	CARBONDALE		SANDY SHALE	3.2	827.0
-401.7	CARBONDALE		SANDSTONE	3.8	830.2
-405.5	CARBONDALE		SANDY SHALE	11.0	834.0
-416.5	CARBONDALE		SANDSTONE	4.0	845.0
-420.5	CARBONDALE		SANDY SHALE	4.0	849.0

MAPID: 18590064000C VERSION: 1

PROJECT: ISGS98

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 19 QUARTERS/FOOTAGES: 201' S line, 567' W line of SW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.915632

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.319864

DATE COLLECTED: 7 / 12 / 1993

SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 851.5

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. T2-537

WELL TYPE: Coal Test

COMMENT: WABASH MINE,CORE DESC & G-LOG AVAIL.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
416.0	PLEISTOCENE		CLAY	45.0	0.0	
371.0	PLEISTOCENE		SAND	3.0	45.0	
368.0	PLEISTOCENE		CLAY	40.5	48.0	
327.5	MATTOON		SAND	1.5	88.5	
326.0	MATTOON		CLAY	6.0	90.0	
320.0	MATTOON		SANDSTONE	10.0	96.0	
310.0	MATTOON		SILTY SHALE	7.1	106.0	
302.9	MATTOON		DARK SHALE	1.1	113.1	CALCAREOUS
301.8	MATTOON		BLACK SHALE	1.6	114.2	
300.2	MATTOON		LIMESTONE	0.2	115.8	
300.0	MATTOON	FRIENDSVILLE	COAL	1.0	116.0	
299.0	MATTOON		UNDERCLAY	2.7	117.0	
296.3	BOND	LIVINGSTON	LIMESTONE	3.3	119.7	
293.0	BOND		GRAY SHALE	14.1	123.0	
278.9	BOND		DARK SHALE	1.0	137.1	GREENISH
277.9	BOND		DARK SHALE	5.4	138.1	
272.5	BOND		LIMESTONE	0.6	143.5	
271.9	BOND		BLACK SHALE	1.3	144.1	
270.6	BOND		LIMESTONE	0.3	145.4	
270.3	BOND		COAL	0.4	145.7	
269.9	BOND		GRAY SHALE	5.0	146.1	
264.9	BOND		CORE LOSS	0.6	151.1	
264.3	BOND		GRAY SHALE	8.4	151.7	
255.9	BOND	MT. CARMEL	SANDSTONE	104.5	160.1	
151.5	BOND	CARTHAGE	LIMESTONE	3.3	264.5	
148.1	MODESTO		BLACK SHALE	0.7	267.9	
147.4	MODESTO		DARK SHALE	7.8	268.6	
139.6	MODESTO		COAL	0.2	276.4	
139.4	MODESTO		SILTY SHALE	8.4	276.6	
131.0	MODESTO		SANDSTONE	9.8	285.0	
121.2	MODESTO		GRAY SHALE	7.3	294.8	
113.9	MODESTO	NEW HAVEN	COAL	0.6	302.1	
113.3	MODESTO		DARK SHALE	4.8	302.7	
108.5	MODESTO		GRAY SHALE	6.4	307.5	
102.1	MODESTO		LIMESTONE	1.4	313.9	
100.7	MODESTO		DARK SHALE	7.0	315.3	
93.7	MODESTO		GRAY SHALE	9.2	322.3	
84.5	MODESTO		DARK SHALE	11.8	331.5	
72.7	MODESTO		GRAY SHALE	11.4	343.3	

61.3	MODESTO		GRAY SHALE	0.2	354.7	CALCAREOUS
61.1	MODESTO		LIMESTONE	1.0	354.9	
60.1	MODESTO		BLACK SHALE	1.8	355.9	
58.3	MODESTO	WOMAC	COAL	0.7	357.7	
57.6	MODESTO		UNDERCLAY	5.5	358.4	
52.1	MODESTO		GRAY SHALE	1.6	363.9	
50.6	MODESTO		LIMESTONE	0.8	365.4	
49.8	MODESTO		SILTY SHALE	5.2	366.2	
44.6	MODESTO		SHALE	3.4	371.4	CLAYSTONE
41.2	MODESTO		SILTY SHALE	48.8	374.8	
-7.6	MODESTO		GRAY SHALE	2.8	423.6	CALCAREOUS
-10.4	MODESTO		GRAY SHALE	8.9	426.4	
-19.3	MODESTO		LIMESTONE	0.5	435.3	
-19.8	MODESTO		BLACK SHALE	2.3	435.8	
-22.1	MODESTO	CHAPEL	COAL	0.4	438.1	
-22.5	MODESTO		UNDERCLAY	4.1	438.5	
-26.6	MODESTO		SILTY SHALE	5.1	442.6	
-31.7	MODESTO	WEST FRANKLIN	LIMESTONE	2.1	447.7	BROWN
-33.8	MODESTO	WEST FRANKLIN	LIMESTONE	6.1	449.8	GRAY-BROWN
-39.9	MODESTO	WEST FRANKLIN	SHALE	3.3	455.9	CLAYSTONE
-43.2	MODESTO	WEST FRANKLIN	LIMESTONE	2.8	459.2	
-46.0	MODESTO		SILTY SHALE	2.2	462.0	
-48.2	MODESTO		SANDSTONE	6.0	464.2	
-54.2	MODESTO		SILTY SHALE	107.0	470.2	
-161.2	MODESTO		SILTSTONE	11.2	577.2	
-172.4	MODESTO		SANDSTONE	2.8	588.4	
-175.2	MODESTO		GRAY SHALE	7.3	591.2	
-182.5	MODESTO		DARK SHALE	12.0	598.5	
-194.5	MODESTO		SILTY SHALE	25.3	610.5	
-219.8	MODESTO		CORE LOSS	13.0	635.8	
-232.8	MODESTO		SILTY SHALE	6.5	648.8	
-239.3	CARBONDALE	DANVILLE	COAL	3.5	655.3	
-242.8	CARBONDALE		UNDERCLAY	5.2	658.8	
-248.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.2	664.0	TAN
-251.2	CARBONDALE		SHALE	0.5	667.2	CLAYSTONE
-251.7	CARBONDALE		SILTY SHALE	0.8	667.7	
-252.5	CARBONDALE		SANDSTONE	3.3	668.5	
-255.8	CARBONDALE		SILTY SHALE	5.6	671.8	
-261.4	CARBONDALE		CLAYSTONE	1.3	677.4	
-262.7	CARBONDALE		LIMESTONE	0.3	678.7	
-263.0	CARBONDALE		CALCAREOUS SHALE	1.3	679.0	BROWN-GRAY
-264.3	CARBONDALE	BRERETON	LIMESTONE	6.7	680.3	
-271.0	CARBONDALE	ANNA	BLACK SHALE	0.6	687.0	
-271.6	CARBONDALE	HERRIN	COAL	3.9	687.6	
-275.5	CARBONDALE		UNDERCLAY	2.5	691.5	
-278.0	CARBONDALE		SANDSTONE	4.6	694.0	
-282.6	CARBONDALE		SILTY SHALE	13.1	698.6	
-295.7	CARBONDALE		SANDSTONE	10.2	711.7	

-305.9	CARBONDALE		SILTY SHALE	17.1	721.9
-323.0	CARBONDALE		DARK SHALE	5.2	739.0
-328.2	CARBONDALE		BLACK SHALE	1.1	744.2
-329.3	CARBONDALE	BRIAR HILL	COAL	0.5	745.3
-329.8	CARBONDALE		GRAY SHALE	1.0	745.8
-330.8	CARBONDALE		GRAY SHALE	1.6	746.8
-332.4	CARBONDALE		CALCAREOUS SANDSTONE	4.1	748.4
-336.5	CARBONDALE	DYKERSBURG	DARK SHALE	2.5	752.5
-339.0	CARBONDALE	DYKERSBURG	SANDSTONE	1.8	755.0
-340.8	CARBONDALE	DYKERSBURG	SILTY SHALE	70.3	756.8
-411.1	CARBONDALE	SPRINGFIELD	COAL	7.5	827.1
-418.6	CARBONDALE		SHALE & CLAYSTONE	4.3	834.6
-422.9	CARBONDALE		DARK SHALE	9.0	838.9
-431.9	CARBONDALE		SILTY SHALE	1.7	847.9
-433.6	CARBONDALE		SILTSTONE	1.7	849.6
-435.3	CARBONDALE		CORE LOSS	0.2	851.3

MAPID: 18590065000C VERSION: 1

PROJECT: ISGS98

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 19 QUARTERS/FOOTAGES: 585' S line, 835' W line of SW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.914676

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.32092

DATE COLLECTED: 2 / 10 / 1992

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 862.4

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. T2-462

WELL TYPE: Coal Test

COMMENT: WABASH MINE, COLC DESC, & G-LOG AVAIL.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0	PLEISTOCENE		CLAY	7.0	0.0	
408.0	PLEISTOCENE		UNCONSOLIDATED	65.0	7.0	
343.0	MATTOON		SANDSTONE	14.9	72.0	BROWN, WEATHERED
328.1	MATTOON		SANDSTONE	1.1	86.9	GRAY
327.0	MATTOON		SANDY SHALE	19.6	88.0	
307.4	MATTOON		GRAY SHALE	0.4	107.6	CALCAREOUS
307.0	MATTOON		BLACK SHALE	2.3	108.0	
304.7	MATTOON	FRIENDSVILLE	COAL	2.2	110.3	
302.5	MATTOON		UNDERCLAY	3.1	112.5	
299.4	BOND	LIVINGSTON	LIMESTONE	3.6	115.6	GRAY-GREEN
295.8	BOND		SHALE	13.7	119.2	GRAY-GREEN
282.1	BOND		DARK SHALE	4.7	132.9	
277.4	BOND		DARK SHALE	1.1	137.6	CALCAREOUS
276.3	BOND		BLACK SHALE	1.5	138.7	
274.8	BOND		COAL	0.3	140.2	
274.5	BOND		UNDERCLAY	0.8	140.5	
273.7	BOND		SILTY SHALE	12.8	141.3	
260.9	BOND	MT. CARMEL	SANDSTONE	106.3	154.1	
154.6	BOND		SANDY SHALE	1.6	260.4	
153.0	BOND	CARTHAGE	LIMESTONE	3.5	262.0	BROWN-GRAY
149.5	MODESTO		SANDY SHALE	20.5	265.5	
129.0	MODESTO		SANDSTONE	40.0	286.0	
89.0	MODESTO		SANDY SHALE	120.0	326.0	
-31.0	MODESTO	CHAPEL	COAL	0.5	446.0	
-31.5	MODESTO	WEST FRANKLIN	LIMESTONE	12.5	446.5	
-44.0	MODESTO		SANDY SHALE	6.0	459.0	
-50.0	MODESTO		SANDSTONE	11.0	465.0	
-61.0	MODESTO		SANDY SHALE	10.0	476.0	
-71.0	MODESTO		SANDSTONE	9.0	486.0	
-80.0	MODESTO		SANDY SHALE	85.0	495.0	
-165.0	MODESTO		SANDSTONE/SHALE	75.0	580.0	
-240.0	CARBONDALE	DANVILLE	COAL	3.0	655.0	
-243.0	CARBONDALE		UNDERCLAY	1.0	658.0	
-244.0	CARBONDALE		SANDY SHALE	4.0	659.0	
-248.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.5	663.0	BROWN
-252.5	CARBONDALE		SANDSTONE	14.5	667.5	
-267.0	CARBONDALE	BRERETON	LIMESTONE	3.0	682.0	
-270.0	CARBONDALE	HERRIN	COAL	2.5	685.0	
-272.5	CARBONDALE	HERRIN	COAL	3.5	687.5	

-276.0	CARBONDALE		UNDERCLAY	1.0	691.0	
-277.0	CARBONDALE		SANDSTONE	38.0	692.0	
-315.0	CARBONDALE		GRAY SHALE	15.0	730.0	
-330.0	CARBONDALE		BLACK SHALE	2.0	745.0	
-332.0	CARBONDALE	DYKERSBURG	SILTY SHALE	77.4	747.0	
-409.4	CARBONDALE	SPRINGFIELD	COAL	7.2	824.4	
-416.6	CARBONDALE		DARK SHALE	0.3	831.6	
-416.9	CARBONDALE		SHALE	5.6	831.9	GREEN
-422.5	CARBONDALE		DARK SHALE	7.7	837.5	
-430.2	CARBONDALE		SANDSTONE	17.2	845.2	

MAPID: 18590066000C VERSION: 1

PROJECT: ISGS98

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 19 QUARTERS/FOOTAGES: 501' S line, 1527' W line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.912256

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.320682

DATE COLLECTED: 6 / 23 / 1993

SURFACE ELEVATION (FT.): 433.8 LOGGED (FT.): 862.0

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. T2-536

WELL TYPE: Coal Test

COMMENT: WABASH MINE,CORE DESC & E-LOG AVAIL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
433.8	PLEISTOCENE		SAND	15.0	0.0	
418.8	PLEISTOCENE		UNCONSOLIDATED	60.0	15.0	
358.8	PLEISTOCENE		CLAY	5.1	75.0	
353.7	PLEISTOCENE		UNCONSOLIDATED	20.5	80.1	
333.2	MATTOON		SHALE	6.4	100.6	BROWN
326.8	MATTOON		SILTY SHALE	16.8	107.0	
310.0	MATTOON		GRAY SHALE	0.8	123.8	CALCAREOUS
309.2	MATTOON		BLACK SHALE	1.5	124.6	
307.7	MATTOON	FRIENDSVILLE	COAL	1.0	126.1	
306.7	MATTOON		CLAYSTONE	2.2	127.1	GREE-GRAY
304.5	BOND	LIVINGSTON	LIMESTONE	3.7	129.3	GREEN-GRAY
300.8	BOND		SHALE	3.5	133.0	GREEN-GRAY
297.3	BOND		SILTY SHALE	4.3	136.5	GREEN-GRAY
293.0	BOND		LIMESTONE	3.4	140.8	DARK BROWN-GRAY
289.6	BOND		SHALE WITH LIMESTONE	1.3	144.2	GRAY-GREEN
288.3	BOND		SILTY SHALE	6.8	145.5	
281.5	BOND		SILTY SHALE	2.6	152.3	
278.9	BOND		GRAY SHALE & SANDSTONE	10.1	154.9	
268.8	BOND		GRAY SHALE & SANDSTONE	2.5	165.0	
266.3	BOND	MT. CARMEL	SHALY SANDSTONE	5.5	167.5	
260.8	BOND	MT. CARMEL	SANDSTONE	103.7	173.0	
157.1	BOND	CARTHAGE	LIMESTONE	4.9	276.7	TAN-GRAY
152.2	MODESTO		BLACK SHALE	0.8	281.6	
151.4	MODESTO		GRAY SHALE	1.6	282.4	
149.8	MODESTO		SILTY SHALE	14.4	284.0	
135.4	MODESTO		SANDSTONE	16.3	298.4	
119.1	MODESTO		SILTY SHALE	9.3	314.7	
109.8	MODESTO		SHALY COAL	2.7	324.0	
107.1	MODESTO		GRAY SHALE	3.2	326.7	
103.9	MODESTO		SILTY SHALE	7.2	329.9	
96.7	MODESTO		GRAY SHALE	3.4	337.1	
93.3	MODESTO		SILTY SANDSTONE	4.8	340.5	
88.5	MODESTO		GRAY SHALE	1.4	345.3	
87.1	MODESTO		SHALE	12.9	346.7	CLAYSTONE
74.2	MODESTO		CALCAREOUS SANDSTONE	2.9	359.6	
71.3	MODESTO		SILTY SHALE	1.6	362.5	
69.7	MODESTO		GRAY SHALE	8.2	364.1	

61.5	MODESTO		LIMESTONE	0.6	372.3	
60.9	MODESTO		BLACK SHALE	1.8	372.9	
59.1	MODESTO		DARK SHALE	1.3	374.7	
57.8	MODESTO	WOMAC	COAL	0.8	376.0	
57.0	MODESTO		UNDERCLAY	3.5	376.8	
53.5	MODESTO		SILTY SHALE	2.0	380.3	
51.5	MODESTO		GRAY SHALE	3.2	382.3	
48.3	MODESTO		LIMESTONE	0.3	385.5	BROWN-GRAY
48.0	MODESTO		SILTY SHALE	58.6	385.8	
-10.6	MODESTO		GRAY SHALE	8.6	444.4	
-19.2	MODESTO		GRAY SHALE	0.5	453.0	CALCAREOUS
-19.7	MODESTO		BLACK SHALE	2.6	453.5	
-22.3	MODESTO	CHAPEL	COAL	0.6	456.1	
-22.9	MODESTO		UNDERCLAY	4.4	456.7	
-27.3	MODESTO		GRAY SHALE	3.2	461.1	
-30.5	MODESTO		SILTY SHALE	2.4	464.3	
-32.9	MODESTO	WEST FRANKLIN	LIMESTONE	1.6	466.7	BROWN-GRAY
-34.5	MODESTO	WEST FRANKLIN	CLAYSTONE & SILTSTONE	1.1	468.3	
-35.6	MODESTO	WEST FRANKLIN	LIMESTONE	6.3	469.4	BROWN-GRAY
-41.9	MODESTO		CLAYSTONE & SILTSTONE	1.6	475.7	
-43.5	MODESTO		GRAY SHALE	1.5	477.3	
-45.0	MODESTO		SANDSTONE	8.2	478.8	
-53.2	MODESTO		SILTY SHALE	58.5	487.0	
-111.7	MODESTO		DARK SHALE	9.4	545.5	
-121.1	MODESTO		SILTSTONE	2.7	554.9	
-123.8	MODESTO		SILTY SHALE	32.9	557.6	
-156.7	MODESTO		SILTSTONE	8.5	590.5	
-165.2	MODESTO		SANDSTONE	5.9	599.0	
-171.1	MODESTO		SANDY SHALE	49.6	604.9	
-220.7	MODESTO		SILTY SHALE	13.7	654.5	
-234.4	CARBONDALE	DANVILLE	COAL	3.6	668.2	
-238.0	CARBONDALE		UNDERCLAY	5.7	671.8	
-243.7	CARBONDALE	BANKSTON FORK	LIMESTONE	3.1	677.5	
-246.8	CARBONDALE		GRAY SHALE	0.6	680.6	
-247.4	CARBONDALE		SANDSTONE	4.3	681.2	
-251.7	CARBONDALE		SILTY SHALE	4.5	685.5	GREEN-GRAY
-256.2	CARBONDALE		DARK SHALE	3.0	690.0	
-259.2	CARBONDALE	BRERETON	LIMESTONE	6.9	693.0	GRAY
-266.1	CARBONDALE	ANNA	BLACK SHALE	0.3	699.9	
-266.4	CARBONDALE	HERRIN	COAL	4.1	700.2	
-270.5	CARBONDALE		UNDERCLAY	3.3	704.3	
-273.8	CARBONDALE		SANDSTONE	5.4	707.6	
-279.2	CARBONDALE		SILTSTONE	6.0	713.0	
-285.2	CARBONDALE		GRAY SHALE	6.7	719.0	
-291.9	CARBONDALE		SANDSTONE	14.3	725.7	
-306.2	CARBONDALE		SILTY SHALE	9.8	740.0	
-316.0	CARBONDALE		GRAY SHALE	6.5	749.8	
-322.5	CARBONDALE		BLACK SHALE	0.9	756.3	

-323.4	CARBONDALE	BRIAR HILL	COAL	0.6	757.2
-324.0	CARBONDALE	DYKERSBURG	SANDSTONE	2.6	757.8
-326.6	CARBONDALE		SILTY SHALE	65.9	760.4
-392.5	CARBONDALE	SPRINGFIELD	COAL	6.1	826.3
-398.6	CARBONDALE		SILTY SHALE	2.8	832.4
-401.4	CARBONDALE		SANDSTONE	3.1	835.2
-404.5	CARBONDALE		SILTY SHALE	10.8	838.3
-415.3	CARBONDALE		SILTSTONE	1.7	849.1
-417.0	CARBONDALE		SANDSTONE	11.2	850.8

MAPID: 18500123000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 320' S line, 330' W line of NE SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.876615 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.323786 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2726.0 LOG TYPE:

SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-271.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2037.0		BASE BARLOW	LIMESTONE	-	2451.0
-2312.0	RENAULT	BASE RENAULT	LIMESTONE	-	2726.0

MAPID: 18500123000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 320' S line, 330' W line of NE SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.876615 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.323786 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 2900.0 LOG TYPE: Electric Log

SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-274.0	CARBONDALE	HERRIN	COAL	1.0	688.0
-323.0	CARBONDALE	BRIAR HILL	COAL	-	737.0
-386.0	CARBONDALE	SPRINGFIELD	COAL	5.0	800.0
-486.0	CARBONDALE	HOUCHIN CREEK	COAL	-	900.0

MAPID: 18500126000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.881129 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.323808 DATE COLLECTED:
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2731.0 LOG TYPE:
SOURCE: SUPERIOR OIL COMPANY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	430.0
-229.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	658.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2047.0		BASE BARLOW	LIMESTONE	-	2476.0
-2302.0	RENAULT	BASE RENAULT	LIMESTONE	-	2731.0

MAPID: 18500259000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.881153 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.321986 DATE COLLECTED:
SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2483.0 LOG TYPE:
SOURCE: ELKINS H A WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-2.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	430.0
-237.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	665.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2055.0		BASE BARLOW	LIMESTONE	-	2483.0

MAPID: 18500397000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' E line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.874302 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.333045 DATE COLLECTED:
SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 2413.0 LOG TYPE:
SOURCE: BRIDGE, FRANK WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-39.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	448.0
-291.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	700.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2004.0		BASE BARLOW	LIMESTONE	-	2413.0

MAPID: 18501280000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.878811 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.333012 DATE COLLECTED:
SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 2398.0 LOG TYPE:
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-34.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-264.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1992.0		BASE BARLOW	LIMESTONE	-	2398.0

MAPID: 18501485000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.878835 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.33116 DATE COLLECTED:
SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 2400.0 LOG TYPE:
SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-28.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-258.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1988.0		BASE BARLOW	LIMESTONE	-	2400.0

MAPID: 18502322000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.874323 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.331184 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 685.0 LOG TYPE:
SOURCE: SAWYER, L. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	-	465.0
-	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	

MAPID: 18502681000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 315' S line, 555' W line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.88039 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.320098 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2726.0 LOG TYPE:

SOURCE: GEORGE, T. W. TRUST WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-17.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	447.0
-245.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0
-1336.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1766.0
-2056.0		BASE BARLOW	LIMESTONE	-	2486.0
-2296.0	RENAULT	BASE RENAULT	LIMESTONE	-	2726.0

MAPID: 18504772000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.878952 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.321988 DATE COLLECTED:

SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2494.0 LOG TYPE:

SOURCE: BEARD, FRANCIS L. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-23.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	457.0
-251.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2060.0		BASE BARLOW	LIMESTONE	-	2494.0

MAPID: 18504773000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 580' S line, 108' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.882704 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.320829 DATE COLLECTED: 1 / 0 / 1940

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 2840.0 LOG TYPE: Drillers Log

SOURCE: CONTINENTAL OIL CO. 3 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 885'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.0			UNCONSOLIDATED	50.0	0.0	SURFACE SAND
386.0			LIMESTONE	6.0	50.0	
380.0			SANDY SHALE	137.0	56.0	
243.0			CALCAREOUS SHALE	59.0	193.0	
184.0			SHALE	23.0	252.0	
161.0			CALCAREOUS SHALE	76.0	275.0	
85.0	PATOKA		COAL	4.0	351.0	THICKNESS IS PROBABLY NOT ACCURATE
81.0	PATOKA		CALCAREOUS SHALE	70.0	355.0	
11.0	PATOKA		COAL	4.0	425.0	THICKNESS IS PROBABLY NOT ACCURATE
7.0	PATOKA		SHALE	12.0	429.0	
-5.0	SHELBURN	WEST FRANKLIN	LIMESTONE	11.0	441.0	
-16.0	SHELBURN		CALCAREOUS SHALE	200.0	452.0	
-216.0	SHELBURN		LIMESTONE	18.0	652.0	
-234.0	CARBONDALE	HERRIN	COAL	7.0	670.0	THICKNESS IS PROBABLY NOT ACCURATE
-241.0	CARBONDALE		SHALE	8.0	677.0	
-249.0	CARBONDALE		SANDSTONE	20.0	685.0	
-269.0	CARBONDALE		SHALE	83.0	705.0	
-352.0	CARBONDALE	SPRINGFIELD	COAL	7.0	788.0	THICKNESS IS PROBABLY NOT ACCURATE
-359.0	CARBONDALE		LIMESTONE	53.0	795.0	
-412.0	CARBONDALE		SANDSTONE	31.0	848.0	
-443.0	CARBONDALE	HOUCHIN CREEK	COAL	6.0	879.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18504774000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 990' W line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.887903 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.320142 DATE COLLECTED: 1 / 0 / 1940

SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 2498.0 LOG TYPE: Drillers Log

SOURCE: CONTINENTAL OIL CO. 5 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 629'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
423.0			UNCONSOLIDATED	50.0	0.0	SURFACE SOIL, CLAY, AND SAND
373.0			SHALE	42.0	50.0	
331.0			SANDY SHALE	164.0	92.0	
167.0			SHALE	7.0	256.0	
160.0			LIMESTONE	4.0	263.0	
156.0			SANDSTONE	8.0	267.0	
148.0			SHALE	16.0	275.0	
132.0			SHALE	64.0	291.0	
68.0			SANDSTONE	15.0	355.0	
53.0			SHALE	30.0	370.0	
23.0			SANDSTONE	45.0	400.0	
-22.0			LIMESTONE	11.0	445.0	
-33.0			CALCAREOUS SHALE	24.0	456.0	
-57.0			LIMESTONE	10.0	480.0	
-67.0			FOSSILIFEROUS LIMESTONE	7.0	490.0	
-74.0			CALCAREOUS SHALE	23.0	497.0	
-97.0			SANDY SHALE	34.0	520.0	CALC SDY SH
-131.0			LIMESTONE	6.0	554.0	
-137.0			SANDY SHALE	5.0	560.0	
-142.0			COAL	3.0	565.0	THICKNESS IS PROBABLY NOT ACCURATE
-145.0			SANDY SHALE	10.0	568.0	
-155.0			CALCAREOUS SHALE	45.0	578.0	
-200.0			COAL	6.0	623.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18504775000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 20 **QUARTERS/FOOTAGES:** 340' N line, 330' E line of SW NE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.878856 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.32931 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 431.0 **LOGGED (FT.):** 698.0 **LOG TYPE:**
SOURCE: GOLDBERG PAUL E **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	463.0
-267.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	698.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	

MAPID: 18504776000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.881081 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.327477 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1750.0 **LOG TYPE:**
SOURCE: SOURAPAS GEORGE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	-	448.0
-	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1750.0

MAPID: 18504777000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.87659 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.325672 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 436.0 **LOGGED (FT.):** 2461.0 **LOG TYPE:**
SOURCE: SAWYER, L. D. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-29.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	465.0
-259.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	695.0
-1333.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1769.0
-2025.0		BASE BARLOW	LIMESTONE	-	2461.0

MAPID: 18504780000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 990' S line, 330' E line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.874345 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.329324 DATE COLLECTED:
SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 735.0 LOG TYPE:
SOURCE: SAWYER, L. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-49.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	502.0
-282.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	735.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	

MAPID: 18504781000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 210' N line, 330' W line of SE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.876538 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.329683 DATE COLLECTED:
SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 1770.0 LOG TYPE:
SOURCE: SAWYER, L. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-36.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	492.0
-269.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	725.0
-1314.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1770.0
-		BASE BARLOW	LIMESTONE	-	

MAPID: 18505042000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.876639 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.321994 DATE COLLECTED:
SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 685.0 LOG TYPE:
SOURCE: VENTURE OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-37.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	452.0
-270.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0

MAPID: 18505302000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 20

QUARTERS/FOOTAGES: 400' S line, 330' W line of NE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.881077

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.32767

DATE COLLECTED:

SURFACE ELEVATION (FT.): 432.0

LOGGED (FT.): 2460.0

LOG TYPE:

SOURCE: KENDALL & DAVIS DRLG.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-22.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	454.0
-252.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	684.0
-1321.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1753.0
-2028.0		BASE BARLOW	LIMESTONE	-	2460.0

MAPID: 18505303000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 20

QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.87888

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.327485

DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0

LOGGED (FT.): 2485.0

LOG TYPE:

SOURCE: KENDALL & DAVIS DRLG.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	484.0
-256.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	714.0
-1318.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1776.0
-2027.0		BASE BARLOW	LIMESTONE	-	2485.0

MAPID: 18505318000C VERSION: 1 PROJECT: NCRDS92
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.881109 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.327483 DATE COLLECTED: 6 / 11 / 1957
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
SOURCE: HANNA COAL CO 9FR WELL TYPE: Coal Test
COMMENT: DRILLER'S LOG SHOWS LOC. AS 33-1N-13W

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			UNCONSOLIDATED	40.0	0.0	
390.0			SANDSTONE	0.3	40.0	GRAY
389.7			GRAY SHALE	20.2	40.3	
369.5			LIMESTONE	1.2	60.5	GRAY
368.3			SHALY COAL	3.9	61.7	WITH PYRITE
364.4			SHALE W/ COAL STREAKS	0.8	65.6	WITH COAL STREAKS
363.7			SANDY SHALE	2.0	66.3	WITH COAL STREAKS
361.7			LIMESTONE	1.7	68.3	GRAY

MAPID: 18505330000C VERSION: 1 PROJECT: NCRDS92
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES:
QUADRANGLE: GRAYVILLE LONGITUDE: -87.882248 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.326563 DATE COLLECTED: 7 / 17 / 1957
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log
SOURCE: HANNA COAL CO 31FR WELL TYPE: Coal Test
COMMENT: SEE COAL SECTION MAP#2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.0			UNCONSOLIDATED	20.0	0.0	

MAPID: 18505331000C VERSION: 1 PROJECT: NCRDS92
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES:
QUADRANGLE: GRAYVILLE LONGITUDE: -87.882248 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.326563 DATE COLLECTED: 7 / 18 / 1957
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
SOURCE: HANNA COAL CO 31FR-A WELL TYPE: Coal Test
COMMENT: LOCATION MAY BE SW CORNER SE 18-2S-13W

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.0			UNCONSOLIDATED	45.0	0.0	

MAPID: 18505642000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 576' S line, 107' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.881951 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.320818 DATE COLLECTED:
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2472.0 LOG TYPE:
SOURCE: SOIL TESTING SERVICE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-11.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	440.0
-226.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	655.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2043.0		BASE BARLOW	LIMESTONE	-	2472.0

MAPID: 18505663000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.881006 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.332996 DATE COLLECTED:
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 2406.0 LOG TYPE:
SOURCE: GETTY OIL COMPANY WELL TYPE: Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	439.0
-260.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	668.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1998.0		BASE BARLOW	LIMESTONE	-	2406.0

MAPID: 18505780000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 219' E line of NW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.878539 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.323813 DATE COLLECTED:
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 2486.0 LOG TYPE:
SOURCE: MOORE ENGINEERING & PROD WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-17.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	446.0
-246.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2057.0		BASE BARLOW	LIMESTONE	-	2486.0

MAPID: 18590161000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 265' S line, 704' E line of SE NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.884693 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.327282 DATE COLLECTED: 7 / 2 / 1982

SURFACE ELEVATION (FT.): 408.4 LOGGED (FT.): 782.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-301 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
408.4	PLEISTOCENE		CLAY	6.0	0.0	
402.4	PLEISTOCENE		SAND	2.0	6.0	
400.4	PLEISTOCENE		CLAY	12.0	8.0	BROWN
388.4	PLEISTOCENE		CLAY	27.0	20.0	GRAY
361.4	BOND		GRAY SANDSTONE	14.0	47.0	
347.4	BOND		GRAY SHALE	4.0	61.0	
343.4	BOND		SANDY SHALE	31.5	65.0	
311.9	BOND		COAL	1.5	96.5	
310.4	BOND		UNDERCLAY	1.0	98.0	
309.4	BOND		SANDY SHALE	3.0	99.0	
306.4	BOND		BROWN LIMESTONE	1.5	102.0	
304.9	BOND		SANDY SHALE	21.5	103.5	
283.4	BOND		BROWN LIMESTONE	2.0	125.0	
281.4	BOND		GRAY SANDSTONE	111.0	127.0	
170.4	BOND		LIMESTONE	4.0	238.0	
166.4	BOND		DARK SHALE	4.0	242.0	
162.4	BOND		LIMESTONE	5.0	246.0	
157.4	BOND		SANDY SHALE	107.0	251.0	
50.4	PATOKA		BROWN LIMESTONE	1.0	358.0	
49.4	PATOKA		SANDY SHALE	59.0	359.0	
-9.6	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	418.0	
-18.6	SHELBURN		DARK SHALE	25.0	427.0	
-43.6	SHELBURN		SANDSTONE	7.0	452.0	
-50.6	SHELBURN		SANDY SHALE	24.0	459.0	
-74.6	SHELBURN		BLACK SHALE	2.0	483.0	
-76.6	SHELBURN		SANDY SHALE	14.0	485.0	
-90.6	SHELBURN		DARK SHALE	118.0	499.0	
-208.6	SHELBURN	DANVILLE	COAL	2.0	617.0	
-210.6	SHELBURN		UNDERCLAY	1.0	619.0	
-211.6	SHELBURN		GRAY SHALE	6.0	620.0	
-217.6	SHELBURN		BROWN LIMESTONE	5.0	626.0	
-222.6	SHELBURN		GRAY SANDSTONE	12.0	631.0	
-234.6	SHELBURN		SANDY SHALE	3.0	643.0	
-237.6	SHELBURN		DARK SHALE	5.0	646.0	
-242.6	CARBONDALE	HERRIN	COAL	4.0	651.0	
-246.6	CARBONDALE		UNDERCLAY	2.0	655.0	
-248.6	CARBONDALE		SANDY SHALE	3.0	657.0	
-251.6	CARBONDALE		GRAY SHALE	40.0	660.0	
-291.6	CARBONDALE		DARK SHALE	45.0	700.0	

-336.6	CARBONDALE		SANDY SHALE	5.6	745.0
-342.2	CARBONDALE		DARK SHALE	10.0	750.6
-352.2	CARBONDALE	SPRINGFIELD	COAL	6.1	760.6
-358.3	CARBONDALE		SANDSTONE	5.2	766.7
-363.5	CARBONDALE		SILTSTONE	7.2	771.9
-370.7	CARBONDALE		SANDSTONE	2.9	779.1

MAPID: 18590162000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 20 QUARTERS/FOOTAGES: 515' S line, 70' W line of NE SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.877518 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.324318 DATE COLLECTED: 7 / 19 / 1984

SURFACE ELEVATION (FT.): 420.1 LOGGED (FT.): 819.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-314 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.1	PLEISTOCENE		CLAY	10.0	0.0	
410.1	PLEISTOCENE		SANDY CLAY	5.0	10.0	
405.1	MATTOON		SANDY SHALE	18.0	15.0	
387.1	MATTOON	FRIENDSVILLE	COAL	4.5	33.0	
382.6	BOND		DARK SHALE	2.5	37.5	
380.1	BOND		GRAY SANDSTONE	10.0	40.0	
370.1	BOND		GRAY SHALE	4.0	50.0	
366.1	BOND		GRAY SANDSTONE	44.0	54.0	
322.1	BOND		DARK SHALE	6.0	98.0	
316.1	BOND		SANDY SHALE	6.0	104.0	
310.1	BOND		DARK SHALE	23.0	110.0	
287.1	BOND		COAL	2.0	133.0	
285.1	BOND		UNDERCLAY	4.0	135.0	
281.1	BOND	FLANNIGAN	GRAY SHALE	5.0	139.0	
276.1	BOND		LIMESTONE	1.5	144.0	
274.6	BOND		GRAY SHALE	14.5	145.5	
260.1	BOND		DARK SHALE	10.0	160.0	
250.1	BOND		BLACK SHALE	3.0	170.0	
247.1	BOND		GRAY SHALE	11.0	173.0	
236.1	BOND		SANDY SHALE	54.5	184.0	
181.6	BOND		LIMESTONE	3.5	238.5	
178.1	PATOKA		GRAY SANDSTONE	37.0	242.0	
141.1	PATOKA	CARTHAGE	SANDY SHALE	31.0	279.0	
110.1	PATOKA		GRAY SHALE	61.0	310.0	
49.1	PATOKA		BROWN LIMESTONE	6.0	371.0	
43.1	PATOKA		SANDY SHALE	46.0	377.0	
-2.9	PATOKA		DARK SHALE	31.0	423.0	
-33.9	SHELBURN		BROWN LIMESTONE	6.0	454.0	
-39.9	SHELBURN		BROWN SHALE	4.0	460.0	
-43.9	SHELBURN		SHALE	12.0	464.0	GREEN
-55.9	SHELBURN		SANDSTONE	14.0	476.0	GREEN
-69.9	SHELBURN		DARK SHALE	40.0	490.0	
-109.9	SHELBURN	DANVILLE	SANDY SHALE	35.0	530.0	
-144.9	SHELBURN		GRAY SHALE	21.0	565.0	
-165.9	SHELBURN		SANDY SHALE	38.0	586.0	
-203.9	SHELBURN		GRAY SHALE	29.0	624.0	
-232.9	SHELBURN		COAL	2.8	653.0	
-235.7	SHELBURN		UNDERCLAY	2.6	655.8	
-238.3	SHELBURN		LIMESTONE	1.6	658.4	

-239.9	SHELburn		GRAY SHALE	2.0	660.0
-241.9	SHELburn		GRAY SANDSTONE	12.0	662.0
-253.9	SHELburn		BROWN LIMESTONE	4.5	674.0
-258.4	SHELburn		SANDY SHALE	1.5	678.5
-259.9	CARBONDALE	HERRIN	COAL	4.3	680.0
-264.2	CARBONDALE		UNDERCLAY	3.7	684.3
-267.9	CARBONDALE		SANDY SHALE	7.0	688.0
-274.9	CARBONDALE		SANDY LIMESTONE	3.5	695.0
-278.4	CARBONDALE		SANDY SHALE	97.3	698.5
-375.7	CARBONDALE	SPRINGFIELD	COAL	5.7	795.8
-381.4	CARBONDALE		DARK SHALE	0.2	801.5
-381.6	CARBONDALE		UNDERCLAY	0.6	801.7
-382.2	CARBONDALE		CALCAREOUS SHALE	4.4	802.3
-386.6	CARBONDALE		LIMESTONE	0.6	806.7
-387.2	CARBONDALE		DARK SHALE	2.7	807.3
-389.9	CARBONDALE		GRAY SHALE	1.7	810.0
-391.6	CARBONDALE		CALCAREOUS SHALE	5.1	811.7
-396.7	CARBONDALE			2.2	816.8

MAPID: 18501054000C
VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 21

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.871989

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.333046

DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0

LOGGED (FT.): 2419.0

LOG TYPE:

SOURCE: ASHLAND OIL&REF. CO.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	449.0
-278.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	674.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2023.0		BASE BARLOW	LIMESTONE	-	2419.0

MAPID: 18502314000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 990' S line, 330' W line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.872031 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.329319 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 2750.0 LOG TYPE:
SOURCE: SAWYER, L. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-57.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-292.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	735.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2015.0		BASE BARLOW	LIMESTONE	-	2458.0
-2307.0	RENAULT	BASE RENAULT	LIMESTONE	-	2750.0

MAPID: 18502314000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 990' S line, 330' W line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.872031 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.329319 DATE COLLECTED:
SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 2915.0 LOG TYPE: Electric Log
SOURCE: SAWYER, L. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-295.0	CARBONDALE	HERRIN	COAL	1.0	738.0
-350.0	CARBONDALE	BRIAR HILL	COAL	-	793.0
-427.0	CARBONDALE	SPRINGFIELD	COAL	7.0	870.0
-509.0	CARBONDALE	HOUCHIN CREEK	COAL	-	952.0

MAPID: 18502419000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.862922 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.323742 DATE COLLECTED:
SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 2610.0 LOG TYPE:
SOURCE: BIG ONE DRLG. & TIMM, E. WELL TYPE: Producer-Oil
COMMENT: WELL FAULTED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
24.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	374.0
-177.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	575.0
-1516.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1914.0
-2212.0		BASE BARLOW	LIMESTONE	-	2610.0

MAPID: 18504782000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.872055 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.327496 DATE COLLECTED:

SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 745.0 LOG TYPE:

SOURCE: SAWYER, L. D. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-60.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	512.0
-293.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	745.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18526131000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 430' N line, 330' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.871991 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.33277 DATE COLLECTED:

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2425.0 LOG TYPE:

SOURCE: HOCKING, ANDY G. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	455.0
-280.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	680.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2025.0		BASE BARLOW	LIMESTONE	-	2425.0

MAPID: 18527431000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.870867 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.332105 DATE COLLECTED: 9 / 1 / 1981

SURFACE ELEVATION (FT.): LOGGED (FT.): 265.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	9.0	0.0	
-			SAND	11.0	9.0	LOG SAYS 'QUICK SAND'
-	MATTOON		DARK SHALE	19.0	20.0	
-	MATTOON		COAL	3.0	39.0	THICKNESS IS PROBABLY NOT ACCURATE
-	MATTOON		GRAY SHALE	5.0	42.0	
-	MATTOON		LIMESTONE	2.0	47.0	
-	MATTOON	FRIENDSVILLE	COAL	4.0	49.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		GRAY SHALE	12.0	53.0	
-	BOND		SANDSTONE	30.0	65.0	
-	BOND		GRAY SHALE	40.0	95.0	
-	BOND	WITT	COAL	3.0	135.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	2.0	138.0	
-	BOND		GRAY SHALE	10.0	140.0	
-	BOND		DARK SHALE	17.0	150.0	
-	BOND	REEL	LIMESTONE	2.0	167.0	
-	BOND		GRAY SHALE	31.0	169.0	
-	BOND		SANDY SHALE	20.0	200.0	
-	BOND	MT. CARMEL	SANDSTONE	45.0	220.0	

MAPID: 18590163000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 2077' N line, 81' W line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.86375 GEOLOGIST: STRAYYER

CONFIDENTIAL: N LATITUDE: 38.328191 DATE COLLECTED: 7 / 2 / 1982

SURFACE ELEVATION (FT.): 386.5 LOGGED (FT.): 945.7 LOG TYPE: Drillers Log

SOURCE: AMAX T2-300 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.5	PLEISTOCENE		CLAY	7.0	0.0	BROWN
379.5	PLEISTOCENE		CLAY	3.0	7.0	YELLOW
376.5	PLEISTOCENE		UNCONSOLIDATED	10.0	10.0	
366.5	PLEISTOCENE		SAND & GRAVEL	61.0	20.0	
305.5	PLEISTOCENE		CLAY	15.0	81.0	
290.5	MATTOON		GRAY SANDSTONE	1.0	96.0	
289.5	MATTOON		GRAY SHALE	8.0	97.0	
281.5	MATTOON	FRIENDSVILLE	COAL	3.0	105.0	
278.5	BOND		SANDY SHALE	2.0	108.0	
276.5	BOND		BROWN LIMESTONE	3.0	110.0	
273.5	BOND		SANDY SHALE	34.0	113.0	
239.5	BOND			31.0	147.0	
208.5	BOND		SANDY SHALE	17.5	178.0	
191.0	BOND	FLANNIGAN	COAL	1.5	195.5	
189.5	BOND		SANDY SHALE	7.0	197.0	
182.5	BOND		GRAY SANDSTONE	1.0	204.0	
181.5	BOND		SANDY SHALE	28.0	205.0	
153.5	BOND		BROWN LIMESTONE	2.5	233.0	
151.0	BOND		SANDY SHALE	17.5	235.5	
133.5	BOND		GRAY SANDSTONE	95.0	253.0	
38.5			SANDY SHALE	153.0	348.0	
-114.5			GRAY SANDSTONE	2.0	501.0	
-116.5			SANDY SHALE	17.0	503.0	
-133.5			GRAY SHALE	22.0	520.0	
-155.5			BROWN LIMESTONE	9.0	542.0	
-164.5			GRAY SHALE	46.0	551.0	
-210.5			SANDY SHALE	7.0	597.0	
-217.5	SHELBURN		GRAY SHALE	81.0	604.0	
-298.5	SHELBURN		LIMESTONE	1.0	685.0	
-299.5	SHELBURN		GRAY SHALE	64.0	686.0	
-363.5	SHELBURN	DANVILLE	COAL	3.0	750.0	
-366.5	SHELBURN		UNDERCLAY	2.0	753.0	
-368.5	SHELBURN		GRAY SHALE	2.0	755.0	
-370.5	SHELBURN		BROWN LIMESTONE	5.0	757.0	
-375.5	SHELBURN		GRAY SANDSTONE	9.0	762.0	
-384.5	SHELBURN	BRERETON	LIMESTONE	5.0	771.0	
-389.5	CARBONDALE	HERRIN	COAL	3.0	776.0	
-392.5	CARBONDALE		UNDERCLAY	2.0	779.0	
-394.5	CARBONDALE		GRAY SANDSTONE	36.0	781.0	

-430.5	CARBONDALE		GRAY SHALE	111.5	817.0
-542.0	CARBONDALE	SPRINGFIELD	COAL	6.7	928.5
-548.7	CARBONDALE		UNDERCLAY	4.5	935.2
-553.2	CARBONDALE		GRAY SHALE	3.0	939.7
-556.2	CARBONDALE			0.5	942.7
-556.7	CARBONDALE		SANDSTONE	2.5	943.2

MAPID: 18590253000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 21 QUARTERS/FOOTAGES: 450' N line, 71' E line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.864345 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.321608 DATE COLLECTED: 8 / 14 / 1985

SURFACE ELEVATION (FT.): 388.4 LOGGED (FT.): 977.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-336 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
388.4	PLEISTOCENE		CLAY	6.0	0.0	
382.4	PLEISTOCENE		SAND	9.0	6.0	
373.4	PLEISTOCENE		SAND & GRAVEL	72.0	15.0	
301.4	BOND		GRAY SHALE	40.0	87.0	
261.4	BOND		LIMESTONE	1.5	127.0	
259.9	BOND		COAL	1.5	128.5	BRISTOL HILL?
258.4	BOND		DARK SHALE	11.0	130.0	
247.4	BOND		GRAY SANDSTONE	21.0	141.0	
226.4	BOND		GRAY SHALE	105.5	162.0	
120.9			LIMESTONE	0.5	267.5	
120.4			GRAY SHALE	47.0	268.0	
73.4			GRAY SANDSTONE	82.0	315.0	
-8.6			GRAY SHALE	61.0	397.0	
-69.6			GRAY SANDSTONE	9.0	458.0	
-78.6			GRAY SHALE	102.0	467.0	
-180.6	SHELBURN		GRAY SANDSTONE	10.0	569.0	
-190.6	SHELBURN		LIMESTONE	14.0	579.0	
-204.6	SHELBURN		GRAY SHALE	194.0	593.0	
-398.6	SHELBURN	DANVILLE	COAL	6.0	787.0	
-404.6	SHELBURN		UNDERCLAY	2.0	793.0	
-406.6	SHELBURN		GRAY SHALE	18.0	795.0	
-424.6	SHELBURN	BRERETON	BROWN LIMESTONE	4.0	813.0	
-428.6	CARBONDALE	HERRIN	COAL	4.0	817.0	
-432.6	CARBONDALE		UNDERCLAY	2.0	821.0	
-434.6	CARBONDALE		GRAY SANDSTONE	7.0	823.0	
-441.6	CARBONDALE		GRAY SHALE	119.0	830.0	
-560.6	CARBONDALE	SPRINGFIELD	COAL	5.8	949.0	
-566.4	CARBONDALE		UNDERCLAY	3.7	954.8	
-570.1	CARBONDALE		SANDY SHALE	5.1	958.5	
-575.2	CARBONDALE		SANDSTONE	13.4	963.6	ARGILLACEOUS

MAPID: 18501525000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.846878 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.327318 DATE COLLECTED:
SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2685.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-237.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	630.0
-1332.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1725.0
-2003.0		BASE BARLOW	LIMESTONE	-	2396.0
-2292.0	RENAULT	BASE RENAULT	LIMESTONE	-	2685.0

MAPID: 18501660000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line
QUADRANGLE: KEENSBURG LONGITUDE: -87.837721 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.319965 DATE COLLECTED:
SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 2681.0 LOG TYPE:
SOURCE: BUCHMAN, JOHN B. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	338.0
-193.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	584.0
-1315.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1706.0
-2000.0		BASE BARLOW	LIMESTONE	-	2391.0
-2290.0	RENAULT	BASE RENAULT	LIMESTONE	-	2681.0

MAPID: 18502145000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 176' W line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840528 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.327276 DATE COLLECTED:
SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 1697.0 LOG TYPE:
SOURCE: CAPLOW, C. A. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-35.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	427.0
-212.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	604.0
-1305.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1697.0

MAPID: 18502145000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 176' W line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840528 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.327276 DATE COLLECTED:
SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 1983.0 LOG TYPE: Electric Log
SOURCE: CAPLOW, C. A. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-214.0	CARBONDALE	HERRIN	COAL	3.0	606.0
-273.0	CARBONDALE	BRIAR HILL	COAL	-	665.0
-355.0	CARBONDALE	SPRINGFIELD	COAL	7.0	747.0
-446.0	CARBONDALE	HOUCHIN CREEK	COAL	-	838.0

MAPID: 18502476000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 425' E line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.838057 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.327263 DATE COLLECTED:
SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 1700.0 LOG TYPE:
SOURCE: PACO PETROLEUM CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-29.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	420.0
-211.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	602.0
-1309.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1700.0

MAPID: 18502770000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.851484 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.321847 DATE COLLECTED:
SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2406.0 LOG TYPE:
SOURCE: COCHRAN H E WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-49.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	435.0
-230.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	616.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2020.0		BASE BARLOW	LIMESTONE	-	2406.0

MAPID: 18504784000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.839992 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.323621 DATE COLLECTED:
SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 1708.0 LOG TYPE:
SOURCE: TURNER, J. D. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	-	
-210.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	603.0
-1315.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1708.0

MAPID: 18504785000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 817' W line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.842858 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.32729 DATE COLLECTED:
SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 1710.0 LOG TYPE:
SOURCE: REZNIK JOE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-3.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	400.0
-212.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	609.0
-1313.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1710.0

MAPID: 18504786000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.839991 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.325451 DATE COLLECTED:
SURFACE ELEVATION (FT.): 390.0 LOGGED (FT.): 1700.0 LOG TYPE:
SOURCE: REZNIK JOE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	-	
-215.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	605.0
-1310.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1700.0

MAPID: 18504787000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.837724 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.325438 DATE COLLECTED:

SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 1706.0 LOG TYPE:

SOURCE: REZNIK JOE WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	MODESTO	WEST FRANKLIN	LIMESTONE	-		
-209.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	604.0	
-1311.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1706.0	

MAPID: 18505731000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.839999 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.31997 DATE COLLECTED:

SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 1706.0 LOG TYPE:

SOURCE: HOCKING, ANDY G. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	338.0	
-192.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	585.0	
-1313.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1706.0	

MAPID: 18526695000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.843448 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.320895 DATE COLLECTED: 11 / 4 / 1977

SURFACE ELEVATION (FT.): 385.0 LOGGED (FT.): 788.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-195 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.0			SOIL	5.0	0.0	DARK
380.0			CLAY	8.0	5.0	YELLOW
372.0			SAND	48.0	13.0	
324.0			GRAY SHALE	82.0	61.0	
242.0			SHALE	13.0	143.0	DK GRAY
229.0			LIMESTONE	2.0	156.0	
227.0			CALCAREOUS SHALE	1.0	158.0	
226.0			BLACK SHALE	1.0	159.0	
225.0			GRAY SHALE	40.0	160.0	
185.0			SANDY SHALE	60.0	200.0	
125.0			GRAY SHALE	25.0	260.0	
100.0			SANDY SHALE	63.0	285.0	
37.0			LIMESTONE	1.0	348.0	
36.0			SHALE	29.0	349.0	
7.0			CALCAREOUS SHALE	2.0	378.0	
5.0			BLACK SHALE	1.0	380.0	
4.0			SANDY SHALE	34.0	381.0	
-30.0			SHALY LIMESTONE	2.0	415.0	
-32.0			SANDY SHALE	98.0	417.0	
-130.0			SHALE	46.0	515.0	DK GRAY
-176.0	CARBONDALE	DANVILLE	COAL	4.0	561.0	
-180.0			UNDERCLAY	1.0	565.0	
-181.0			GRAY SHALE	25.0	566.0	
-206.0			BLACK SHALE	1.0	591.0	
-207.0			LIMESTONE	6.0	592.0	
-213.0			BLACK SHALE	2.0	598.0	
-215.0	CARBONDALE	HERRIN	COAL	3.0	600.0	
-218.0			SOFT SHALE	17.0	603.0	
-235.0			SANDY SHALE	106.0	620.0	
-341.0	CARBONDALE	SPRINGFIELD	COAL	6.0	726.0	
-347.0			SANDY SHALE	56.0	732.0	

MAPID: 18526699000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 1705' S line, 380' E line

QUADRANGLE: KEENSBURG LONGITUDE: -87.837896 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.323762 DATE COLLECTED: 4 / 1 / 1977

SURFACE ELEVATION (FT.): 384.3 LOGGED (FT.): 745.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-193 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
384.3			SANDY CLAY	5.0	0.0	BROWN
379.3			SAND	75.0	5.0	
304.3			SAND	20.0	80.0	LT GRAY
284.3			SAND	2.0	100.0	GRAY
282.3			GRAY SHALE	3.0	102.0	
279.3			SHALY SANDSTONE	8.0	105.0	GRAY
271.3			GREEN SHALE	9.0	113.0	
262.3			BLACK SHALE	13.0	122.0	
249.3			GRAY SHALE	13.0	135.0	
236.3			LIMESTONE	3.0	148.0	
233.3			BLACK SHALE	3.0	151.0	
230.3			GRAY SHALE	15.0	154.0	
215.3			COAL	1.0	169.0	
214.3			SANDSTONE	3.0	170.0	
211.3			SANDY SHALE	33.0	173.0	
178.3			SANDSTONE	4.0	206.0	GRAY
174.3			GRAY SHALE	1.0	210.0	
173.3			SANDSTONE	8.0	211.0	GRAY
165.3			SANDY SHALE	1.0	219.0	
164.3			SANDSTONE	6.0	220.0	GRAY
158.3			SHALY SANDSTONE	4.0	226.0	GRAY
154.3			SANDSTONE	2.0	230.0	GRAY
152.3			SANDSTONE	4.0	232.0	GRAY
148.3			GRAY SHALE	2.0	236.0	
146.3			SANDSTONE	1.0	238.0	GRAY
145.3			GRAY SHALE	13.0	239.0	
132.3			SANDY SHALE	76.0	252.0	
56.3			SANDSTONE	86.0	328.0	GRAY
-29.7			GRAY SHALE	17.0	414.0	
-46.7			SANDSTONE	4.0	431.0	
-50.7			GRAY SHALE	17.0	435.0	
-67.7			GRAY SHALE	101.0	452.0	
-168.7	CARBONDALE	DANVILLE	COAL	4.0	553.0	
-172.7			SHALE	6.0	557.0	
-178.7			LIMESTONE	3.0	563.0	
-181.7			SHALE	2.0	566.0	
-183.7			SANDY SHALE	18.0	568.0	
-201.7			LIMESTONE	2.0	586.0	
-203.7			LIMESTONE	3.0	588.0	GRAY

-206.7			BLACK SHALE	1.0	591.0	
-207.7	CARBONDALE	HERRIN	COAL	4.0	592.0	
-211.7			CLAYSTONE	3.0	596.0	
-214.7			SANDY SHALE	6.0	599.0	
-220.7			SANDSTONE	5.0	605.0	GRAY
-225.7			SANDY SHALE	9.0	610.0	
-234.7			SHALY SANDSTONE	13.0	619.0	GRAY
-247.7			GRAY SHALE	87.3	632.0	
-335.0	CARBONDALE	SPRINGFIELD	COAL	6.5	719.3	
-341.5			SANDY SHALE	19.0	725.8	

MAPID: 18590164000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 1155' S line, 1152' W line of SW NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.841695 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.329546 DATE COLLECTED: 6 / 22 / 1992

SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 86.5 **LOG TYPE:** Drillers Log

SOURCE: AMAX 92TH2 **WELL TYPE:** Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN
390.0	PLEISTOCENE		SANDY CLAY	14.0	0.0
376.0	PLEISTOCENE			20.0	14.0
356.0	PLEISTOCENE		SAND & GRAVEL	16.0	34.0
340.0	PLEISTOCENE		UNCONSOLIDATED	4.0	50.0
336.0	PLEISTOCENE			23.0	54.0
313.0			SANDY SHALE	9.5	77.0

MAPID: 18590165000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 688' S line, 1153' W line of SW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.841696 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.328265 DATE COLLECTED: 6 / 23 / 1992
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 86.5 LOG TYPE: Drillers Log
SOURCE: AMAX 92TH3 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.0	PLEISTOCENE		SANDY CLAY	13.0	0.0	
376.0	PLEISTOCENE			15.0	13.0	
361.0	PLEISTOCENE			5.0	28.0	SMALL TO LARGE
356.0	PLEISTOCENE			27.0	33.0	SMALL
329.0	PLEISTOCENE		CLAY, SAND & GRAVEL	3.0	60.0	
326.0	PLEISTOCENE		CLAY, SAND & GRAVEL	2.0	63.0	
324.0	PLEISTOCENE		CLAY, SAND & GRAVEL	14.0	65.0	BROWN-GRAY
310.0	PLEISTOCENE			1.0	79.0	
309.0			GRAY SHALE	6.5	80.0	

MAPID: 18590166000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES: 211' S line, 1152' W line of SW NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.841706 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.326953 DATE COLLECTED: 6 / 23 / 1992
SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
SOURCE: AMAX 92TH4 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
383.0	PLEISTOCENE		SANDY CLAY	4.0	0.0	
379.0	PLEISTOCENE		SILTY CLAY	13.0	4.0	
366.0	PLEISTOCENE			12.5	17.0	SMALL
353.5	PLEISTOCENE			10.5	29.5	
343.0	PLEISTOCENE		SAND & GRAVEL	16.0	40.0	
327.0	PLEISTOCENE			4.0	56.0	
323.0	PLEISTOCENE		SANDY CLAY	4.0	60.0	BROWN
319.0	PLEISTOCENE		SANDY CLAY	5.5	64.0	
313.5	PLEISTOCENE			5.0	69.5	
308.5	PLEISTOCENE		CLAY	2.0	74.5	
306.5			GRAY SANDSTONE	10.5	76.5	

MAPID: 18590167000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845721

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.326401

DATE COLLECTED: 12 / 28 / 1992

SURFACE ELEVATION (FT.): 384.3 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: AMAX 92FW5

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
384.3	PLEISTOCENE		SILTY CLAY	5.0	0.0	BROWN
379.3	PLEISTOCENE		SILTY CLAY	6.5	5.0	GRAY
372.8	PLEISTOCENE		SAND & GRAVEL	40.5	11.5	
332.3	PLEISTOCENE		SILTY CLAY	2.0	52.0	
330.3	PLEISTOCENE		SAND & GRAVEL	24.5	54.0	
305.8			SHALE	6.5	78.5	

MAPID: 18590168000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.845721

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.326401

DATE COLLECTED: 12 / 15 / 1992

SURFACE ELEVATION (FT.): 383.6 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: AMAX 92FW6

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
383.6	PLEISTOCENE		SILTY CLAY	4.0	0.0	
379.6	PLEISTOCENE		SILTY CLAY	2.0	4.0	PETROLEUM ODOR
377.6	PLEISTOCENE		SILTY CLAY	6.0	6.0	CALCAREOUS
371.6	PLEISTOCENE		SAND & GRAVEL	51.0	12.0	
320.6	PLEISTOCENE		SANDY CLAY	2.0	63.0	
318.6	PLEISTOCENE		SILTY CLAY	1.0	65.0	
317.6	PLEISTOCENE			6.5	66.0	
311.1				1.0	72.5	
310.1			SILTSTONE	3.5	73.5	

MAPID: 18502771000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 23

QUARTERS/FOOTAGES: 2310' S line, 1535' W line of NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.831193

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.332711

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2044.0

LOG TYPE: Electric Log

SOURCE: MITCHELLTREE R C

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	4.0	564.0	
-	CARBONDALE	BRIAR HILL	COAL	-	623.0	
-	CARBONDALE	SPRINGFIELD	COAL	6.0	700.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	796.0	

MAPID: 18526696000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 23 QUARTERS/FOOTAGES: 90' N line, 1320' W line

QUADRANGLE: KEENSBURG LONGITUDE: -87.831945 GEOLOGIST: JACOBSON

CONFIDENTIAL: N LATITUDE: 38.333393 DATE COLLECTED: 3 / 22 / 1977

SURFACE ELEVATION (FT.): 388.6 LOGGED (FT.): 713.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-192 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
388.6			CLAY	10.0	0.0	BROWN
378.6			SAND	13.0	10.0	
365.6			SAND & GRAVEL	11.0	23.0	
354.6			GRAY SHALE	5.0	34.0	
349.6			SHALE	3.0	39.0	
346.6			SHALY SANDSTONE	20.0	42.0	GRAY
326.6			SANDSTONE	37.0	62.0	LT GRAY
289.6			SHALE	4.0	99.0	DK GRAY
285.6			SANDSTONE	79.0	103.0	LT GRAY
206.6			SANDY SHALE	40.0	182.0	
166.6			BLACK SHALE	1.0	222.0	
165.6			GRAY SHALE	19.0	223.0	
146.6			CARBONACEOUS SHALE	4.0	242.0	
142.6			GREEN SHALE	16.0	246.0	
126.6			SHALY SANDSTONE	20.0	262.0	GRAY
106.6			SANDSTONE	42.0	282.0	GRAY
64.6			LIMESTONE	2.0	324.0	WHITE
62.6			GREEN SHALE	1.0	326.0	
61.6			LIMESTONE	4.0	327.0	WHITE
57.6			GRAY SHALE	2.0	331.0	
55.6			RED SHALE	2.0	333.0	
53.6			GRAY SHALE	4.0	335.0	
49.6			LIMESTONE	3.0	339.0	GRAY
46.6			SANDY SHALE	20.0	342.0	
26.6			GRAY SHALE	20.0	362.0	
6.6			SANDY SHALE	60.0	382.0	78
-53.4			SANDY SHALE	78.0	442.0	
-131.4			GRAY SHALE	7.0	520.0	
-138.4	CARBONDALE	DANVILLE	COAL	4.0	527.0	
-142.4			GRAY SHALE	3.0	531.0	
-145.4			LIMESTONE	2.0	534.0	
-147.4			SHALE	4.0	536.0	
-151.4			GRAY SHALE	16.0	540.0	
-167.4			LIMESTONE	4.0	556.0	
-171.4	CARBONDALE	HERRIN	COAL	4.0	560.0	
-175.4			UNDERCLAY	3.0	564.0	
-178.4			SANDY SHALE	4.0	567.0	
-182.4			SANDSTONE	5.0	571.0	GRAY
-187.4			SANDY SHALE	23.0	576.0	

-210.4			GRAY SHALE	19.0	599.0
-229.4			BLACK SHALE	3.5	618.0
-232.9			COAL	0.5	621.5
-233.4			SANDY SHALE	14.0	622.0
-247.4			SANDY SHALE	50.0	636.0
-297.4	CARBONDALE	SPRINGFIELD	COAL	7.0	686.0
-304.4			SANDY CLAYSTONE	4.0	693.0
-308.4			SHALY SANDSTONE	16.0	697.0

MAPID: 18528105000C VERSION: 1

PROJECT: AVAIL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 23 QUARTERS/FOOTAGES: 405' S line, 24' W line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.836479 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.320171 DATE COLLECTED: 7 / 8 / 1980

SURFACE ELEVATION (FT.): 383.9 LOGGED (FT.): 947.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-244 WELL TYPE: Coal Test

COMMENT: WABASH BOX27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
383.9	PLEISTOCENE		UNCONSOLIDATED	77.0	0.0
306.9			SANDSTONE	4.0	77.0
302.9			GRAY SHALE	9.0	81.0
293.9			SANDY SHALE	30.0	90.0
263.9			SANDSTONE	18.5	120.0
245.4			LIMESTONE	4.5	138.5
240.9			SANDY SHALE	20.0	143.0
220.9			COAL	2.0	163.0
218.9			UNDERCLAY	1.0	165.0
217.9			SANDY SHALE	153.0	166.0
64.9			COAL	1.0	319.0
63.9			COAL	1.0	320.0
62.9			CALCAREOUS SHALE	17.0	321.0
45.9			RED SHALE	4.0	338.0
41.9			LIMESTONE	5.0	342.0
36.9			SANDSTONE	33.0	347.0
3.9			SANDY SHALE	92.0	380.0
-88.1			LIMESTONE	2.0	472.0
-90.1			SANDSTONE	32.0	474.0
-122.1			GRAY SHALE	19.0	506.0
-141.1	CARBONDALE	DANVILLE	COAL	7.0	525.0
-148.1	CARBONDALE		UNDERCLAY	2.0	532.0
-150.1	CARBONDALE		MICACEOUS SHALE	8.0	534.0
-158.1	CARBONDALE		LIMESTONE	4.0	542.0
-162.1	CARBONDALE		SANDY SHALE	15.0	546.0
-177.1	CARBONDALE		LIMESTONE	2.0	561.0
-179.1	CARBONDALE		SANDY SHALE	7.5	563.0
-186.6	CARBONDALE	BRERETON	LIMESTONE	1.0	570.5
-187.6	CARBONDALE	ANNA	BLACK SHALE	2.5	571.5
-190.1	CARBONDALE	HERRIN	COAL	3.5	574.0
-193.6	CARBONDALE		UNDERCLAY	1.5	577.5
-195.1	CARBONDALE		CALCAREOUS SHALE	13.0	579.0
-208.1	CARBONDALE		SANDY SHALE	100.0	592.0
-308.1	CARBONDALE		GRAY SHALE	0.2	692.0
-308.3	CARBONDALE	SPRINGFIELD	COAL	5.3	692.2
-313.6	CARBONDALE		UNDERCLAY	2.8	697.5
-316.4	CARBONDALE		SANDSTONE	9.1	700.3
-325.5	CARBONDALE		SHALE & SANDSTONE	4.6	709.4
-330.1	CARBONDALE		SANDY SHALE	57.0	714.0

-387.1	CARBONDALE		GRAY SHALE	38.0	771.0
-425.1	CARBONDALE		BLACK LIMESTONE	2.0	809.0
-427.1	CARBONDALE		GRAY SHALE	2.0	811.0
-429.1	CARBONDALE	HOUCHIN CREEK	COAL	3.0	813.0
-432.1	CARBONDALE		UNDERCLAY	1.0	816.0
-433.1	CARBONDALE		SANDY SHALE	4.0	817.0
-437.1	CARBONDALE		COAL	4.0	821.0
-441.1	CARBONDALE		UNDERCLAY	2.0	825.0
-443.1	CARBONDALE		GRAY SHALE	11.0	827.0
-454.1	CARBONDALE		SANDY SHALE	19.0	838.0
-473.1	CARBONDALE		GRAY SHALE	45.0	857.0
-518.1	CARBONDALE		SANDY SHALE	6.0	902.0
-524.1	CARBONDALE		DARK SHALE	6.5	908.0
-530.6	CARBONDALE		SANDY SHALE	2.4	914.5
-533.0	CARBONDALE		DARK SHALE	4.4	916.9
-537.4	CARBONDALE		BLACK SHALE	0.9	921.3
-538.3	CARBONDALE		COAL	0.1	922.2
-538.4	CARBONDALE		LIMESTONE	1.3	922.3
-539.7	CARBONDALE		DARK SHALE	2.5	923.6
-542.2	CARBONDALE	DAVIS	COAL	6.2	926.1
-548.4	TRADEWATER		SANDY CLAYSTONE	2.5	932.3
-550.9	TRADEWATER		LIMESTONE	0.5	934.8
-551.4	CARBONDALE		GRAY SHALE	6.4	935.3
-557.8	CARBONDALE		SANDSTONE	0.9	941.7
-558.7	CARBONDALE		DARK SHALE	0.4	942.6
-559.1	CARBONDALE		LIMESTONE	1.9	943.0
-561.0	CARBONDALE		BLACK SHALE	2.1	944.9

MAPID: 18590254000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 23 QUARTERS/FOOTAGES: 405' S line, 24' W line of SW SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.83648 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.320165 DATE COLLECTED: 7 / 8 / 1980

SURFACE ELEVATION (FT.): 383.9 LOGGED (FT.): 947.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-244 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
383.9	PLEISTOCENE		SANDY CLAY	3.0	0.0	
380.9	PLEISTOCENE		SAND	7.0	3.0	
373.9	PLEISTOCENE			30.0	10.0	
343.9	PLEISTOCENE		SAND & GRAVEL	37.0	40.0	
306.9			SANDSTONE	4.0	77.0	
302.9			GRAY SHALE	9.0	81.0	
293.9			SANDY SHALE	20.0	90.0	
273.9			SANDSTONE	28.5	110.0	
245.4			LIMESTONE	4.5	138.5	
240.9			SANDY SHALE	20.0	143.0	
220.9			COAL	2.0	163.0	
218.9			UNDERCLAY	1.0	165.0	
217.9			SANDY SHALE	153.0	166.0	
64.9			COAL	1.0	319.0	CHAPEL HILL?
63.9			UNDERCLAY	1.0	320.0	
62.9			CALCAREOUS SHALE	17.0	321.0	
45.9			SHALE	4.0	338.0	RED
41.9	SHELBURN		LIMESTONE	5.0	342.0	
36.9	SHELBURN		SANDSTONE	33.0	347.0	
3.9	SHELBURN		SANDY SHALE	92.0	380.0	
-88.1	SHELBURN		LIMESTONE	2.0	472.0	
-90.1	SHELBURN		SANDSTONE	32.0	474.0	
-122.1	SHELBURN		GRAY SHALE	19.0	506.0	
-141.1	SHELBURN	DANVILLE	COAL	7.0	525.0	
-148.1	SHELBURN		UNDERCLAY	2.0	532.0	
-150.1	SHELBURN		MICACEOUS SHALE	8.0	534.0	
-158.1	SHELBURN		LIMESTONE	19.0	542.0	
-177.1	SHELBURN		LIMESTONE	2.0	561.0	
-179.1	SHELBURN		SANDY SHALE	7.5	563.0	
-186.6	SHELBURN	BRERETON	LIMESTONE	1.0	570.5	
-187.6	CARBONDALE	ANNA	BLACK SHALE	2.5	571.5	
-190.1	CARBONDALE	HERRIN	COAL	3.5	574.0	
-193.6	CARBONDALE		UNDERCLAY	1.5	577.5	
-195.1	CARBONDALE		CALCAREOUS SHALE	13.0	579.0	
-208.1	CARBONDALE		SANDY SHALE	100.0	592.0	
-308.1	CARBONDALE		GRAY SHALE	0.2	692.0	
-308.3	CARBONDALE	SPRINGFIELD	COAL	5.3	692.2	
-313.6	CARBONDALE		UNDERCLAY	2.8	697.5	
-316.4	CARBONDALE		SANDSTONE	9.1	700.3	

-325.5	CARBONDALE		SHALE & SANDSTONE	4.6	709.4
-330.1	CARBONDALE		SANDY SHALE	57.0	714.0
-387.1	CARBONDALE		GRAY SHALE	38.0	771.0
-425.1	CARBONDALE			2.0	809.0
-427.1	CARBONDALE		GRAY SHALE	2.0	811.0
-429.1	CARBONDALE	HOUCHIN CREEK	COAL	3.0	813.0
-432.1	CARBONDALE		UNDERCLAY	1.0	816.0
-433.1	CARBONDALE		SANDY SHALE	4.0	817.0
-437.1	CARBONDALE		COAL	4.0	821.0
-441.1	CARBONDALE		UNDERCLAY	2.0	825.0
-443.1	CARBONDALE		GRAY SHALE	11.0	827.0
-454.1	CARBONDALE		SANDY SHALE	19.0	838.0
-473.1	CARBONDALE		GRAY SHALE	45.0	857.0
-518.1	CARBONDALE		SANDY SHALE	6.0	902.0
-524.1	CARBONDALE		DARK SHALE	6.5	908.0
-530.6	CARBONDALE		SANDY SHALE	2.4	914.5
-533.0	CARBONDALE		DARK SHALE	4.4	916.9
-537.4	CARBONDALE		BLACK SHALE	0.9	921.3
-538.3	CARBONDALE		COAL	0.1	922.2
-538.4	CARBONDALE		LIMESTONE	1.3	922.3
-539.7	CARBONDALE		DARK SHALE	2.5	923.6
-542.2	CARBONDALE	DAVIS	COAL	6.2	926.1
-548.4	TRADEWATER		SANDY CLAYSTONE	2.5	932.3
-550.9	TRADEWATER		LIMESTONE	0.5	934.8
-551.4	TRADEWATER		GRAY SHALE	6.4	935.3
-557.8	TRADEWATER		SANDSTONE	0.9	941.7
-558.7	TRADEWATER		DARK SHALE	0.4	942.6
-559.1	TRADEWATER		LIMESTONE	1.9	943.0
-561.0	TRADEWATER		BLACK SHALE	2.1	944.9

MAPID: 18501692000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.835405 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.318134 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 393.0 **LOGGED (FT.):** 1706.0 **LOG TYPE:**
SOURCE: BUCHMAN, JOHN B. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
41.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	352.0
-181.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	574.0
-1313.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1706.0

MAPID: 18501692000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line
QUADRANGLE: KEENSBURG LONGITUDE: -87.835405 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.318134 DATE COLLECTED:
SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 1585.0 LOG TYPE: Electric Log
SOURCE: BUCHMAN, JOHN B. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-188.0	CARBONDALE	HERRIN	COAL	2.0	581.0
-249.0	CARBONDALE	BRIAR HILL	COAL	-	642.0
-310.0	CARBONDALE	SPRINGFIELD	COAL	7.0	703.0
-429.0	CARBONDALE	HOUCHIN CREEK	COAL	-	822.0

MAPID: 18500314000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.84695 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.31449 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2683.0 LOG TYPE:
SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	340.0
-188.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	576.0
-1330.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1718.0
-2014.0		BASE BARLOW	LIMESTONE	-	2402.0
-2295.0	RENAULT	BASE RENAULT	LIMESTONE	-	2683.0

MAPID: 18500314000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.84695 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.31449 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2759.0 LOG TYPE: Electric Log
SOURCE: ENGLE, GEORGE S. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-189.0	CARBONDALE	HERRIN	COAL	3.0	577.0
-251.0	CARBONDALE	BRIAR HILL	COAL	-	639.0
-312.0	CARBONDALE	SPRINGFIELD	COAL	5.0	700.0
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	820.0

MAPID: 18500314000C VERSION: 3

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.84695 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.31449 DATE COLLECTED: 6 / 0 / 1944

SURFACE ELEVATION (FT.): 384.0 LOGGED (FT.): 1671.0 LOG TYPE: Drillers Log

SOURCE: GEORGE S. ENGLE 1 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 952'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
384.0			UNCLASSIFIED	140.0	0.0	LOGS SAYS 'NO RECORD'
244.0	BOND		SANDSTONE	13.0	140.0	
231.0	BOND		BLACK SHALE	1.0	153.0	
230.0	BOND		SANDSTONE	4.0	154.0	
226.0	BOND	CARTHAGE	LIMESTONE	4.0	158.0	
222.0	PATOKA		BLACK SHALE	8.0	162.0	
214.0	PATOKA		GRAY SILTSTONE	16.0	170.0	
198.0	PATOKA		GRAY SHALE	33.0	186.0	
165.0	PATOKA		GRAY SILTSTONE	26.0	219.0	
139.0	PATOKA		GRAY SHALE	20.0	245.0	
119.0	PATOKA		BLACK SHALE	2.0	265.0	BK SH W/ CO STREAK
117.0	PATOKA		UNDERCLAY	1.0	267.0	
116.0	PATOKA		SANDSTONE	77.0	268.0	
39.0	SHELBURN	WEST FRANKLIN	FOSSILIFEROUS LIMESTONE	1.0	345.0	
38.0	SHELBURN	WEST FRANKLIN	GRAY SHALE	1.0	346.0	
37.0	SHELBURN	WEST FRANKLIN	FOSSILIFEROUS LIMESTONE	5.0	347.0	
32.0	SHELBURN		SHALE	4.0	352.0	
28.0	SHELBURN		GRAY SILTSTONE	18.0	356.0	
10.0	SHELBURN		GRAY SHALE	26.0	374.0	
-16.0	SHELBURN		GRAY SILTSTONE	5.0	400.0	
-21.0	SHELBURN		GRAY SHALE	5.0	405.0	
-26.0	SHELBURN		GRAY SILTSTONE	5.0	410.0	
-31.0	SHELBURN		GRAY SHALE	15.0	415.0	
-46.0	SHELBURN		GRAY SILTSTONE	22.0	430.0	
-68.0	SHELBURN		GRAY SHALE	8.0	452.0	
-76.0	SHELBURN		GRAY SILTSTONE	4.0	460.0	
-80.0	SHELBURN		GRAY SHALE	6.0	464.0	
-86.0	SHELBURN		GRAY SILTSTONE	4.0	470.0	
-90.0	SHELBURN		GRAY SHALE	6.0	474.0	
-96.0	SHELBURN		GRAY SILTSTONE	48.0	480.0	
-144.0	SHELBURN		GRAY SHALE	17.0	528.0	
-161.0	SHELBURN		BLACK SHALE	1.0	545.0	
-162.0	SHELBURN	DANVILLE	COAL	3.0	546.0	THICKNESS IS PROBABLY NOT ACCURATE
-165.0	SHELBURN		GRAY SHALE	11.0	549.0	
-176.0	SHELBURN		LIMESTONE	1.0	560.0	
-177.0	SHELBURN		GRAY SHALE	7.0	561.0	
-184.0	SHELBURN		LIMESTONE	1.0	568.0	

-185.0	SHELBURN		SANDSTONE	5.0	569.0	
-190.0	SHELBURN	BRERETON	LIMESTONE	6.0	574.0	
-196.0	CARBONDALE	ANNA	BLACK SHALE	1.0	580.0	
-197.0	CARBONDALE	HERRIN	COAL	1.0	581.0	THICKNESS IS PROBABLY NOT ACCURATE
-198.0	CARBONDALE		DARK GRAY SHALE	2.0	582.0	
-200.0	CARBONDALE		BLACK SHALE	1.0	584.0	BK SH W/ SOME CO
-201.0	CARBONDALE		GRAY SHALE	3.0	585.0	
-204.0	CARBONDALE		GRAY SILTSTONE	8.0	588.0	
-212.0	CARBONDALE		LIMESTONE	4.0	596.0	
-216.0	CARBONDALE		SANDSTONE	26.0	600.0	
-242.0	CARBONDALE		GRAY SILTSTONE	16.0	626.0	
-258.0	CARBONDALE		BLACK SHALE	2.0	642.0	
-260.0	CARBONDALE		DARK GRAY SHALE	4.0	644.0	
-264.0	CARBONDALE		GRAY SILTSTONE	10.0	648.0	
-274.0	CARBONDALE		GRAY SHALE	5.0	658.0	
-279.0	CARBONDALE		GRAY SILTSTONE	26.0	663.0	
-305.0	CARBONDALE		GRAY SHALE	9.0	689.0	
-314.0	CARBONDALE		GRAY SILTSTONE	4.0	698.0	
-318.0	CARBONDALE		GRAY SHALE	3.0	702.0	
-321.0	CARBONDALE	SPRINGFIELD	COAL	2.0	705.0	THICKNESS IS PROBABLY NOT ACCURATE
-323.0	CARBONDALE		GRAY SHALE	7.0	707.0	
-330.0	CARBONDALE		SANDSTONE	6.0	714.0	
-336.0	CARBONDALE		WHITE SILTSTONE	16.0	720.0	
-352.0	CARBONDALE		GRAY SHALE	6.0	736.0	
-358.0	CARBONDALE		WHITE SILTSTONE	35.0	742.0	
-393.0	CARBONDALE		GRAY SHALE	41.0	777.0	
-434.0	CARBONDALE		BLACK SHALE	2.0	818.0	
-436.0	CARBONDALE		DARK GRAY SHALE	8.0	820.0	
-444.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	828.0	THICKNESS IS PROBABLY NOT ACCURATE
-446.0	CARBONDALE		DARK GRAY SHALE	10.0	830.0	
-456.0	CARBONDALE		BLACK SHALE	2.0	840.0	BK SH W/ COAL STREAK
-458.0	CARBONDALE		GRAY SHALE	8.0	842.0	
-466.0	CARBONDALE		GRAY SHALE	6.0	850.0	
-472.0	CARBONDALE		SANDSTONE	10.0	856.0	
-482.0	CARBONDALE		GRAY SHALE	4.0	866.0	
-486.0	CARBONDALE		GRAY SHALE	16.0	870.0	
-502.0	CARBONDALE		GRAY SHALE	10.0	886.0	
-512.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	6.0	896.0	
-518.0	CARBONDALE		GRAY SILTSTONE	14.0	902.0	
-532.0	CARBONDALE		SANDSTONE	18.0	916.0	
-550.0	CARBONDALE		GRAY SHALE	14.0	934.0	
-564.0	CARBONDALE	DAVIS	COAL	4.0	948.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18500314000C VERSION: 5 PROJECT: CONTROL

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.84695 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.31449 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2759.0 LOG TYPE: Survey Sample Study

SOURCE: ENGLE, GEORGE S. 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: 18500325000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.844692 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.308916 DATE COLLECTED:

SURFACE ELEVATION (FT.): 390.0 LOGGED (FT.): 2386.0 LOG TYPE:

SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	340.0
-196.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	586.0
-1330.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1720.0
-1996.0		BASE BARLOW	LIMESTONE	-	2386.0

MAPID: 18500329000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.846986 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.310818 DATE COLLECTED:

SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2682.0 LOG TYPE:

SOURCE: CENTRAL PIPELINE CO WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	342.0
-190.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	582.0
-1336.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1728.0
-2011.0		BASE BARLOW	LIMESTONE	-	2403.0
-2290.0	RENAULT	BASE RENAULT	LIMESTONE	-	2682.0

MAPID: 18501056000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.844656 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.312604 DATE COLLECTED:
SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2648.0 LOG TYPE:
SOURCE: CENTRAL PIPELINE CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
55.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	337.0
-182.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	574.0
-1332.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1724.0
-2006.0		BASE BARLOW	LIMESTONE	-	2398.0
-2256.0	RENAULT	BASE RENAULT	LIMESTONE	-	2648.0

MAPID: 18501685000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.849336 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.309021 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2663.0 LOG TYPE:
SOURCE: CENTRAL PIPELINE CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
38.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	349.0
-179.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	566.0
-1339.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1726.0
-2013.0		BASE BARLOW	LIMESTONE	-	2400.0
-2276.0	RENAULT	BASE RENAULT	LIMESTONE	-	2663.0

MAPID: 18504788000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.851672 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.307248 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2679.0 LOG TYPE:
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
28.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	360.0
-185.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	573.0
-1335.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1723.0
-2014.0		BASE BARLOW	LIMESTONE	-	2402.0
-2291.0	RENAULT	BASE RENAULT	LIMESTONE	-	2679.0

MAPID: 18504789000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847039 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.305296 DATE COLLECTED:
SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2392.0 LOG TYPE:
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	366.0
-183.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	575.0
-1334.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1726.0
-2000.0		BASE BARLOW	LIMESTONE	-	2392.0

MAPID: 18504789000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847039 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.305296 DATE COLLECTED:
SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2417.0 LOG TYPE: Electric Log
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-185.0	CARBONDALE	HERRIN	COAL	3.0	577.0
-242.0	CARBONDALE	BRIAR HILL	COAL	-	634.0
-322.0	CARBONDALE	SPRINGFIELD	COAL	5.0	714.0
-426.0	CARBONDALE	HOUCHIN CREEK	COAL	-	818.0

MAPID: 18504791000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840067 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.305091 DATE COLLECTED:
SURFACE ELEVATION (FT.): 390.0 LOGGED (FT.): 2391.0 LOG TYPE:
SOURCE: WHITER & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	340.0
-187.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	577.0
-1327.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1717.0
-2001.0		BASE BARLOW	LIMESTONE	-	2391.0

MAPID: 18504792000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840003 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.318148 DATE COLLECTED:
SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 1702.0 LOG TYPE:
SOURCE: MIAMI OPERATING CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
44.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	350.0
-186.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	580.0
-1308.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1702.0

MAPID: 18504793000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 990' N line, 330' E line
QUADRANGLE: KEENSBURG LONGITUDE: -87.837718 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.316323 DATE COLLECTED:
SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 1707.0 LOG TYPE:
SOURCE: LOHMANN-JOHNSON DRLG. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	347.0
-182.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	577.0
-1312.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1707.0

MAPID: 18504794000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.85162 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.31089 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2686.0 LOG TYPE:
SOURCE: HAGEMANN PROP INC WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
36.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	352.0
-186.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	574.0
-1329.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1717.0
-2018.0		BASE BARLOW	LIMESTONE	-	2406.0
-2298.0	RENAULT	BASE RENAULT	LIMESTONE	-	2686.0

MAPID: 18505463000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.844601 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.318156 DATE COLLECTED:

SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 1715.0 LOG TYPE:

SOURCE: BARKER, EARNEST I. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1328.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1715.0	

MAPID: 18505468000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.837716 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.310674 DATE COLLECTED:

SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2382.0 LOG TYPE:

SOURCE: BARKER, EARNEST I. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1990.0		BASE BARLOW	LIMESTONE	-	2382.0	

MAPID: 18505902000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 27

QUARTERS/FOOTAGES: 660' S line, 89' E line of NE NW

QUADRANGLE: KEENSBURG

LONGITUDE: -87.846077

GEOLOGIST: JACOBSON

CONFIDENTIAL: N

LATITUDE: 38.317214

DATE COLLECTED:

SURFACE ELEVATION (FT.): 380.0

LOGGED (FT.): 708.6

LOG TYPE: Survey Core Study

SOURCE: AMAX C. C.

T2-94

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
380.0			NO RECORD	552.0	0.0	
-172.0			LIMESTONE	3.9	552.0	LT GRAY
-175.9			SILTSTONE	5.6	555.9	
-181.5			SHALE	3.5	561.5	MED GRAY
-185.0			SILTSTONE	0.8	565.0	MED GRAY
-185.8			SANDSTONE	1.6	565.8	LT GRAY
-187.4			SILTSTONE	1.9	567.4	
-189.3			SHALE	2.0	569.3	MED GRAY
-191.2			SHALE	1.6	571.2	
-192.8	CARBONDALE	BRERETON	LIMESTONE	2.5	572.8	GAP IN LOG; GRAY
-195.3			SHALE	1.8	575.3	LOG HAS BOTTOM AS 577.1; DK GRAY
-196.8	CARBONDALE	HERRIN	COAL	4.4	576.8	'REMOVED BY CO THICK FROM MARKERS'
-201.2			CLAYSTONE	0.8	581.2	MED GRAY
-202.0			CLAYSTONE	3.0	582.0	
-205.0			SANDSTONE	2.7	585.0	LT GRAY
-207.7			NO RECORD	94.1	587.7	GAP - UNCORED INTERVAL
-302.0			UNKNOWN	10.0	682.0	GAP INTERVAL
-312.0	CARBONDALE	DYKERSBURG	SHALE	10.0	692.0	MED GRAY
-322.0			SHALE	6.6	702.0	

MAPID: 18590169000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 348' S line, 2529' W line of NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.836997 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.31253 DATE COLLECTED: 12 / 8 / 1980

SURFACE ELEVATION (FT.): 379.5 LOGGED (FT.): 858.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-271 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
379.5	PLEISTOCENE		SANDY CLAY	7.0	0.0
372.5	PLEISTOCENE		SAND	8.0	7.0
364.5	PLEISTOCENE			90.0	15.0
274.5	BOND		SANDSTONE	21.0	105.0
253.5	BOND		COAL	1.0	126.0
252.5	BOND		UNDERCLAY	1.0	127.0
251.5	BOND		SANDY SHALE	7.0	128.0
244.5	BOND	CARTHAGE	LIMESTONE	3.0	135.0
241.5	PATOKA		GRAY SHALE	22.0	138.0
219.5	PATOKA		SANDY SHALE	79.0	160.0
140.5	PATOKA		LIMESTONE	1.0	239.0
139.5	PATOKA		SANDY SHALE	78.0	240.0
61.5	PATOKA		CALCAREOUS SHALE	2.0	318.0
59.5	PATOKA		SANDY SHALE	6.0	320.0
53.5	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	326.0
45.5	SHELBURN	WEST FRANKLIN	MICACEOUS SHALE	5.0	334.0
40.5	SHELBURN	WEST FRANKLIN	LIMESTONE	2.0	339.0
38.5	SHELBURN		SANDY SHALE	187.0	341.0
-148.5	SHELBURN	DANVILLE	COAL	3.0	528.0
-151.5	SHELBURN		UNDERCLAY	1.0	531.0
-152.5	SHELBURN		SANDY SHALE	35.0	532.0
-187.5	SHELBURN	BRERETON	LIMESTONE	4.5	567.0
-192.0	SHELBURN		GRAY SHALE	1.5	571.5
-193.5	CARBONDALE	ANNA	BLACK SHALE	1.0	573.0
-194.5	CARBONDALE	HERRIN	COAL	3.0	574.0
-197.5	CARBONDALE		UNDERCLAY	1.0	577.0
-198.5	CARBONDALE		GRAY SHALE	7.5	578.0
-206.0	CARBONDALE		LIMESTONE	4.5	585.5
-210.5	CARBONDALE		CALCAREOUS SHALE	13.0	590.0
-223.5	CARBONDALE		LIMESTONE	1.5	603.0
-225.0	CARBONDALE		GRAY SHALE	74.5	604.5
-299.5	CARBONDALE		SANDY SHALE	19.2	679.0
-318.7	CARBONDALE		GRAY SHALE	1.0	698.2
-319.7	CARBONDALE	SPRINGFIELD	COAL	5.5	699.2
-325.2	CARBONDALE		UNDERCLAY	1.7	704.7
-326.9	CARBONDALE		GRAY SHALE	1.5	706.4
-328.4	CARBONDALE		SANDSTONE	3.6	707.9
-332.0	CARBONDALE		SANDY SHALE	4.5	711.5
-336.5	CARBONDALE		SANDSTONE	34.0	716.0

-370.5	CARBONDALE		SANDY SHALE	70.0	750.0
-440.5	CARBONDALE		BLACK SHALE	3.0	820.0
-443.5	CARBONDALE	HOUCHIN CREEK	COAL	3.0	823.0
-446.5	CARBONDALE		UNDERCLAY	1.0	826.0
-447.5	CARBONDALE		GRAY SHALE	3.0	827.0
-450.5	CARBONDALE		COAL	3.0	830.0
-453.5	CARBONDALE		UNDERCLAY	1.0	833.0
-454.5	CARBONDALE		SANDY SHALE	24.0	834.0

MAPID: 18590255000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 31' S line, 633' E line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.848095 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.304502 DATE COLLECTED: 7 / 16 / 1980

SURFACE ELEVATION (FT.): 384.9 LOGGED (FT.): 980.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-246 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
384.9	PLEISTOCENE		SILT	1.0	0.0
383.9	PLEISTOCENE		CLAY	3.0	1.0
380.9	PLEISTOCENE		SAND	6.0	4.0
374.9	PLEISTOCENE		SAND & GRAVEL	98.0	10.0
276.9	BOND	MT. CARMEL	SANDSTONE	32.0	108.0
244.9	BOND		SANDY SHALE	19.0	140.0
225.9	BOND	CARTHAGE	LIMESTONE	4.0	159.0
221.9	PATOKA		DARK SHALE	3.0	163.0
218.9	PATOKA		GRAY SHALE	90.0	166.0
128.9	PATOKA		COAL	3.0	256.0 CHAPEL HILL?
125.9	PATOKA		UNDERCLAY	1.0	259.0
124.9	PATOKA	TRIVOLI	GRAY SANDSTONE	33.0	260.0
91.9	SHELBURN		BROWN LIMESTONE	5.0	293.0
86.9	SHELBURN		SANDY SHALE	35.0	298.0
51.9	SHELBURN		CALCAREOUS SHALE	4.0	333.0
47.9	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	6.0	337.0
41.9	SHELBURN	WEST FRANKLIN	GRAY SHALE	2.0	343.0
39.9	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	4.0	345.0
35.9	SHELBURN		GRAY SHALE	51.0	349.0
-15.1	SHELBURN		SANDY SHALE	40.0	400.0
-55.1	SHELBURN		GRAY SHALE	26.0	440.0
-81.1	SHELBURN		SANDY SHALE	47.0	466.0
-128.1	SHELBURN		GRAY SHALE	25.0	513.0
-153.1	SHELBURN	DANVILLE	COAL	5.0	538.0
-158.1	SHELBURN		UNDERCLAY	2.0	543.0
-160.1	SHELBURN		GRAY SHALE	4.0	545.0
-164.1	SHELBURN		BROWN LIMESTONE	3.0	549.0
-167.1	SHELBURN		CALCAREOUS SHALE	8.0	552.0
-175.1	SHELBURN		GRAY SANDSTONE	9.0	560.0
-184.1	SHELBURN		SANDY SHALE	3.0	569.0
-187.1	SHELBURN	BRERETON	BROWN LIMESTONE	4.0	572.0
-191.1	CARBONDALE	HERRIN	COAL	6.0	576.0
-197.1	CARBONDALE		UNDERCLAY	2.0	582.0
-199.1	CARBONDALE		GRAY SANDSTONE	4.0	584.0
-203.1	CARBONDALE		SANDY SHALE	3.0	588.0
-206.1	CARBONDALE		BROWN LIMESTONE	1.0	591.0
-207.1	CARBONDALE		SANDY SHALE	12.0	592.0
-219.1	CARBONDALE		GRAY SHALE	9.0	604.0
-228.1	CARBONDALE		GRAY SANDSTONE	62.0	613.0

-290.1	CARBONDALE		SANDY SHALE	28.0	675.0
-318.1	CARBONDALE	SPRINGFIELD	COAL	6.0	703.0
-324.1	CARBONDALE		UNDERCLAY	2.0	709.0
-326.1	CARBONDALE		CALCAREOUS SHALE	7.0	711.0
-333.1	CARBONDALE		SANDY SHALE	22.0	718.0
-355.1	CARBONDALE		GRAY SHALE	76.0	740.0
-431.1	CARBONDALE		LIMESTONE	3.0	816.0
-434.1	CARBONDALE	HOUCHIN CREEK	COAL	4.0	819.0
-438.1	CARBONDALE		UNDERCLAY	3.0	823.0
-441.1	CARBONDALE		BLACK SHALE	8.0	826.0
-449.1	CARBONDALE		COAL	4.0	834.0
-453.1	CARBONDALE		UNDERCLAY	2.0	838.0
-455.1	CARBONDALE		SANDY SHALE	18.0	840.0
-473.1	CARBONDALE		GRAY SANDSTONE	2.0	858.0
-475.1	CARBONDALE		DARK SHALE	20.0	860.0
-495.1	CARBONDALE		SANDY SHALE	13.0	880.0
-508.1	CARBONDALE		SANDY LIMESTONE	4.0	893.0
-512.1	CARBONDALE		GRAY SANDSTONE	55.0	897.0
-567.1	CARBONDALE	DEKOVEN	COAL	3.0	952.0
-570.1	CARBONDALE		SHALE	1.0	955.0
-571.1	CARBONDALE	DAVIS	COAL	4.0	956.0
-575.1	TRADEWATER		UNDERCLAY	1.0	960.0
-576.1			CALCAREOUS SHALE	6.0	961.0
-582.1			BLACK SHALE	1.0	967.0
-583.1			SANDY SHALE	12.0	968.0

MAPID: 18590256000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 160' S line, 560' E line of NW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.843155 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.30841 DATE COLLECTED: 8 / 12 / 1980

SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 860.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-251 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
383.0	PLEISTOCENE		CLAY	6.0	0.0	
377.0	PLEISTOCENE		SAND	7.0	6.0	
370.0	PLEISTOCENE			55.0	13.0	
315.0	BOND		SANDSTONE	32.0	68.0	
283.0	BOND		SANDY SHALE	54.0	100.0	
229.0	BOND	CARTHAGE	LIMESTONE	3.0	154.0	
226.0	PATOKA		SANDY SHALE	26.0	157.0	
200.0	PATOKA		COAL	1.0	183.0	
199.0	PATOKA		UNDERCLAY	1.0	184.0	
198.0	PATOKA		SANDY SHALE	65.0	185.0	
133.0	PATOKA		COAL	2.0	250.0	CHAPEL HILL?
131.0	PATOKA		UNDERCLAY	1.0	252.0	
130.0	PATOKA		SANDY SHALE	19.5	253.0	
110.5	PATOKA		LIMESTONE	4.5	272.5	
106.0	PATOKA		SANDY SHALE	53.0	277.0	
53.0	PATOKA		CALCAREOUS SHALE	11.5	330.0	
41.5	SHELBURN	WEST FRANKLIN	LIMESTONE	5.5	341.5	
36.0	SHELBURN	WEST FRANKLIN	MICACEOUS SHALE	5.0	347.0	
31.0	SHELBURN	WEST FRANKLIN	LIMESTONE	11.0	352.0	
20.0	SHELBURN		MICACEOUS SHALE	3.0	363.0	
17.0	SHELBURN		LIMESTONE	1.0	366.0	
16.0	SHELBURN		SANDSTONE	171.0	367.0	
-155.0	SHELBURN	DANVILLE	COAL	3.0	538.0	TOP PROBABLY ERODED
-158.0	SHELBURN		UNDERCLAY	1.0	541.0	
-159.0	SHELBURN		SANDY SHALE	36.0	542.0	
-195.0	SHELBURN	BRERETON	LIMESTONE	4.0	578.0	
-199.0	CARBONDALE	ANNA	BLACK SHALE	1.5	582.0	
-200.5	CARBONDALE	HERRIN	COAL	5.5	583.5	
-206.0	CARBONDALE		UNDERCLAY	2.0	589.0	
-208.0	CARBONDALE		CALCAREOUS SHALE	3.0	591.0	
-211.0	CARBONDALE		SANDSTONE	26.0	594.0	
-237.0	CARBONDALE		SANDY SHALE	63.0	620.0	
-300.0	CARBONDALE		GRAY SHALE	32.0	683.0	
-332.0	CARBONDALE	SPRINGFIELD	COAL	5.0	715.0	
-337.0	CARBONDALE		UNDERCLAY	9.0	720.0	
-346.0	CARBONDALE		GRAY SHALE	99.0	729.0	
-445.0	CARBONDALE		BLACK SHALE	5.0	828.0	
-450.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	833.0	
-453.0	CARBONDALE		UNDERCLAY	3.5	836.0	

-456.5	CARBONDALE	COAL	1.5	839.5
-458.0	CARBONDALE	UNDERCLAY	1.0	841.0
-459.0	CARBONDALE	GRAY SHALE	18.0	842.0

MAPID: 18590257000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 27 QUARTERS/FOOTAGES: 273' N line, 647' E line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.848117 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.307333 DATE COLLECTED: 7 / 10 / 1980

SURFACE ELEVATION (FT.): 383.8 LOGGED (FT.): 840.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-245 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
383.8	PLEISTOCENE		CLAY	7.0	0.0	
376.8	PLEISTOCENE		SAND & GRAVEL	57.0	7.0	
319.8	BOND		SANDSTONE	5.0	64.0	
314.8	BOND		BROWN LIMESTONE	3.0	69.0	
311.8	BOND		SANDY SHALE	63.0	72.0	
248.8	BOND		SANDSTONE	22.0	135.0	WHITE
226.8	BOND		GRAY SHALE	2.0	157.0	
224.8	BOND		BROWN LIMESTONE	5.0	159.0	
219.8	PATOKA		GRAY SHALE	92.0	164.0	
127.8	PATOKA		COAL	2.0	256.0	
125.8	PATOKA		UNDERCLAY	1.0	258.0	
124.8	PATOKA		GRAY SHALE	6.0	259.0	
118.8	PATOKA		SANDY SHALE	22.0	265.0	
96.8	PATOKA		GRAY SANDSTONE	6.0	287.0	
90.8	PATOKA		SANDY SHALE	32.0	293.0	
58.8	PATOKA		LIMESTONE	3.0	325.0	
55.8	PATOKA		GRAY SHALE	17.0	328.0	
38.8	SHELBURN	WEST FRANKLIN	LIMESTONE	7.0	345.0	
31.8	SHELBURN		GRAY SHALE	4.0	352.0	
27.8	SHELBURN		LIMESTONE	12.5	356.0	
15.3	SHELBURN		DARK SHALE	4.0	368.5	
11.3	SHELBURN		LIMESTONE	1.5	372.5	
9.8	SHELBURN		GRAY SHALE	159.0	374.0	
-149.2	SHELBURN	DANVILLE	COAL	3.0	533.0	
-152.2	SHELBURN		UNDERCLAY	1.0	536.0	
-153.2	SHELBURN		GRAY SHALE	5.0	537.0	
-158.2	SHELBURN		LIMESTONE	10.0	542.0	
-168.2	SHELBURN		GRAY SHALE	14.0	552.0	
-182.2	SHELBURN	BRERETON	LIMESTONE	6.0	566.0	
-188.2	CARBONDALE	ANNA	BLACK SHALE	3.0	572.0	
-191.2	CARBONDALE	HERRIN	COAL	3.0	575.0	
-194.2	CARBONDALE		UNDERCLAY	2.0	578.0	
-196.2	CARBONDALE		LIMESTONE	4.0	580.0	
-200.2	CARBONDALE		CALCAREOUS SHALE	4.0	584.0	
-204.2	CARBONDALE		LIMESTONE	1.0	588.0	
-205.2	CARBONDALE		CALCAREOUS SHALE	9.0	589.0	
-214.2	CARBONDALE		LIMESTONE	3.0	598.0	
-217.2	CARBONDALE		CALCAREOUS SHALE	29.0	601.0	
-246.2	CARBONDALE	BRIAR HILL	COAL	0.5	630.0	

-246.7	CARBONDALE		UNDERCLAY	1.5	630.5
-248.2	CARBONDALE		GRAY SHALE	41.0	632.0
-289.2	CARBONDALE		SANDY SHALE	12.0	673.0
-301.2	CARBONDALE		GRAY SHALE	21.0	685.0
-322.2	CARBONDALE	SPRINGFIELD	COAL	5.0	706.0
-327.2	CARBONDALE		UNDERCLAY	2.0	711.0
-329.2	CARBONDALE		GRAY SHALE	22.0	713.0
-351.2	CARBONDALE		SANDY SHALE	27.0	735.0
-378.2	CARBONDALE		GRAY SHALE	48.0	762.0
-426.2	CARBONDALE		BLACK SHALE	1.0	810.0
-427.2	CARBONDALE		GRAY SHALE	3.0	811.0
-430.2	CARBONDALE	HOUCHIN CREEK	COAL	3.5	814.0
-433.7	CARBONDALE		UNDERCLAY	1.5	817.5
-435.2	CARBONDALE		GRAY SHALE	7.0	819.0
-442.2			COAL	2.5	826.0
-444.7			UNDERCLAY	1.0	828.5
-445.7			GRAY SHALE	7.5	829.5
-453.2			COAL	1.0	837.0
-454.2			GRAY SHALE	2.0	838.0

MAPID: 18502146000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.872142 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.318303 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 388.0 **LOGGED (FT.):** 2782.0 **LOG TYPE:**
SOURCE: CLINE & LAMBERT DRLG. **WELL TYPE:** Producer-Oil
COMMENT: WELL ON DOWN-THROWN SIDE OF FAULT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-96.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	484.0
-326.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	714.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	
-2394.0	RENAULT	BASE RENAULT	LIMESTONE	-	2782.0

MAPID: 18502146000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' W line

QUADRANGLE: KEENSBURG LONGITUDE: -87.872142 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.318303 DATE COLLECTED:

SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2910.0 LOG TYPE: Electric Log

SOURCE: CLINE & LAMBERT DRLG. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-332.0	CARBONDALE	HERRIN	COAL	2.0	720.0	
-384.0	CARBONDALE	BRIAR HILL	COAL	-	772.0	
-448.0	CARBONDALE	SPRINGFIELD	COAL	4.0	836.0	
-568.0	CARBONDALE	HOUCHIN CREEK	COAL	-	956.0	

MAPID: 18502962000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.856183 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.314567 DATE COLLECTED:

SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 2694.0 LOG TYPE:

SOURCE: BOXWELL, SAMUEL E. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1335.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1718.0	
-2024.0		BASE BARLOW	LIMESTONE	-	2407.0	
-2311.0	RENAULT	BASE RENAULT	LIMESTONE	-	2694.0	

MAPID: 18505929000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.860697 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.318218 DATE COLLECTED:

SURFACE ELEVATION (FT.): 385.0 LOGGED (FT.): 2692.0 LOG TYPE:

SOURCE: HOCKING OIL COMPANY WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-1349.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1734.0	
-2023.0		BASE BARLOW	LIMESTONE	-	2408.0	
-2307.0	RENAULT	BASE RENAULT	LIMESTONE	-	2692.0	

MAPID: 18590170000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: KEENSBURG LONGITUDE: -87.864191 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.311925 DATE COLLECTED: 11 / 8 / 1983

SURFACE ELEVATION (FT.): 379.2 LOGGED (FT.): 938.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-310 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
379.2	PLEISTOCENE		SANDY CLAY	4.0	0.0	
375.2	PLEISTOCENE			17.0	4.0	
358.2	PLEISTOCENE		SAND	13.0	21.0	
345.2	PLEISTOCENE		SAND & GRAVEL	30.0	34.0	
315.2	PLEISTOCENE		SAND	42.0	64.0	
273.2			DARK SHALE	9.0	106.0	
264.2			GRAY SANDSTONE	4.0	115.0	
260.2			SANDY SHALE	55.0	119.0	
205.2			LIMESTONE	1.0	174.0	
204.2			SHALE	15.0	175.0	SANDY
189.2			LIMESTONE	3.0	190.0	
186.2			SANDY SHALE	20.0	193.0	
166.2			LIMESTONE	1.0	213.0	
165.2			SANDY SHALE	4.0	214.0	
161.2			GRAY SANDSTONE	44.0	218.0	
117.2			LIMESTONE	7.0	262.0	WHITE
110.2			GRAY SANDSTONE	80.0	269.0	
30.2	PATOKA		SANDY SHALE	100.0	349.0	
-69.8	PATOKA		GRAY SANDSTONE	1.0	449.0	
-70.8	PATOKA		SANDY SHALE	86.5	450.0	
-157.3	SHELBURN	WEST FRANKLIN	LIMESTONE	5.5	536.5	WHITE
-162.8	SHELBURN	WEST FRANKLIN	DARK SHALE	7.0	542.0	
-169.8	SHELBURN	WEST FRANKLIN	LIMESTONE	16.0	549.0	WHITE
-185.8	SHELBURN		DARK SHALE	7.0	565.0	
-192.8	SHELBURN		LIMESTONE	1.0	572.0	
-193.8	SHELBURN		SANDY SHALE	4.0	573.0	
-197.8	SHELBURN		GRAY SANDSTONE	46.0	577.0	
-243.8	SHELBURN		SANDY SHALE	102.0	623.0	
-345.8	SHELBURN	DANVILLE	COAL	1.5	725.0	
-347.3	SHELBURN		UNDERCLAY	2.5	726.5	
-349.8	SHELBURN		SANDY SHALE	8.0	729.0	
-357.8	SHELBURN		BROWN LIMESTONE	2.0	737.0	
-359.8	SHELBURN		SANDY SHALE	5.0	739.0	
-364.8	SHELBURN		SANDSTONE	10.0	744.0	
-374.8	SHELBURN	BRERETON	LIMESTONE	7.0	754.0	
-381.8	CARBONDALE	ANNA	DARK SHALE	1.0	761.0	
-382.8	CARBONDALE	HERRIN	COAL	4.5	762.0	
-387.3	CARBONDALE		UNDERCLAY	2.5	766.5	
-389.8	CARBONDALE		SANDY SHALE	2.0	769.0	

-391.8	CARBONDALE		LIMESTONE	3.5	771.0
-395.3	CARBONDALE		SANDY SHALE	1.5	774.5
-396.8	CARBONDALE		GRAY SANDSTONE	12.0	776.0
-408.8	CARBONDALE		LIMESTONE	2.0	788.0
-410.8	CARBONDALE		GRAY SANDSTONE	10.0	790.0
-420.8	CARBONDALE		SANDY SHALE	106.3	800.0
-527.1	CARBONDALE	SPRINGFIELD	COAL	5.8	906.3
-532.9	CARBONDALE		UNDERCLAY	2.2	912.1
-535.1	CARBONDALE		SANDY SHALE	6.3	914.3
-541.4	CARBONDALE		SANDSTONE	5.4	920.6
-546.8	CARBONDALE		SANDY SHALE	9.0	926.0
-555.8	CARBONDALE		GRAY SANDSTONE	3.0	935.0

MAPID: 18590258000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 28 QUARTERS/FOOTAGES: 130' N line, 320' W line of NW NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.872192 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.318858 DATE COLLECTED: 7 / 30 / 1982

SURFACE ELEVATION (FT.): 385.5 LOGGED (FT.): 860.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-305 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.5	PLEISTOCENE		CLAY	13.0	0.0	
372.5	PLEISTOCENE		UNCONSOLIDATED	12.0	13.0	
360.5	PLEISTOCENE		SILTY CLAY	12.0	25.0	
348.5	MATTOON		GRAY SANDSTONE	10.0	37.0	
338.5	MATTOON		SANDY SHALE	13.0	47.0	
325.5	MATTOON		LIMESTONE	2.0	60.0	
323.5	MATTOON		GRAY SHALE	1.0	62.0	
322.5	MATTOON	FRIENDSVILLE	COAL	3.0	63.0	
319.5	BOND		SANDY SHALE	3.0	66.0	
316.5	BOND		LIMESTONE	1.0	69.0	
315.5	BOND		SANDY SHALE	85.0	70.0	
230.5	BOND		LIMESTONE	2.0	155.0	
228.5	BOND		COAL	1.0	157.0	WITT?
227.5	BOND		SANDY SHALE	34.0	158.0	
193.5	BOND		LIMESTONE	2.0	192.0	
191.5	BOND		GRAY SHALE	1.0	194.0	
190.5	BOND		COAL	0.5	195.0	FLANNIGAN?
190.0	BOND		SANDY SHALE	49.5	195.5	
140.5	BOND		LIMESTONE	12.0	245.0	
128.5	BOND		GRAY SANDSTONE	27.0	257.0	
101.5	BOND		DARK SHALE	19.0	284.0	
82.5	BOND		BROWN LIMESTONE	5.0	303.0	
77.5	PATOKA		SANDY SHALE	137.0	308.0	
-59.5	PATOKA		SANDSTONE	2.0	445.0	
-61.5	PATOKA		SANDY SHALE	35.0	447.0	
-96.5	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	482.0	
-104.5	SHELBURN	WEST FRANKLIN	SANDY SHALE	3.0	490.0	
-107.5	SHELBURN	WEST FRANKLIN	LIMESTONE	3.0	493.0	
-110.5	SHELBURN		SANDY SHALE	64.0	496.0	
-174.5	SHELBURN		GRAY SHALE	41.0	560.0	
-215.5	SHELBURN		SANDY SHALE	9.0	601.0	
-224.5	SHELBURN		GRAY SHALE	76.0	610.0	
-300.5	SHELBURN	DANVILLE	COAL	4.0	686.0	
-304.5	SHELBURN		UNDERCLAY	2.0	690.0	
-306.5	SHELBURN		GRAY SHALE	16.0	692.0	
-322.5	SHELBURN		GRAY SANDSTONE	5.0	708.0	
-327.5	SHELBURN	BRERETON	BROWN LIMESTONE	2.0	713.0	
-329.5	CARBONDALE	HERRIN	COAL	5.0	715.0	
-334.5	CARBONDALE		UNDERCLAY	2.0	720.0	

-336.5	CARBONDALE		GRAY SHALE	14.0	722.0	
-350.5	CARBONDALE		BROWN LIMESTONE	1.0	736.0	
-351.5	CARBONDALE		GRAY SANDSTONE	6.0	737.0	
-357.5	CARBONDALE		DARK SHALE	91.7	743.0	
-449.2	CARBONDALE	SPRINGFIELD	COAL	5.3	834.7	
-454.5	CARBONDALE		SHALE	4.3	840.0	
-458.8	CARBONDALE		SANDSTONE	1.7	844.3	
-460.5	CARBONDALE		SHALE	2.1	846.0	
-462.6	CARBONDALE		SHALE	11.6	848.1	
-474.2	CARBONDALE		UNKNOWN	0.3	859.7	LOST

MAPID: 18590259000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 28 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.866543

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.313764

DATE COLLECTED: 8 / 2 / 1982

SURFACE ELEVATION (FT.): 381.9 LOGGED (FT.): 949.3

LOG TYPE: Drillers Log

SOURCE: AMAX T2-306

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
381.9	PLEISTOCENE		SANDY CLAY	8.0	0.0	
373.9	PLEISTOCENE		SAND	9.0	8.0	
364.9	PLEISTOCENE		SAND & GRAVEL	73.0	17.0	
291.9	PLEISTOCENE		UNCONSOLIDATED	6.0	90.0	
285.9	MATTOON			9.0	96.0	
276.9	MATTOON		DARK SHALE	15.0	105.0	
261.9	MATTOON		LIMESTONE	5.0	120.0	
256.9	MATTOON	FRIENDSVILLE	COAL	3.0	125.0	
253.9	BOND		GRAY SHALE	127.0	128.0	
126.9	BOND		LIMESTONE	1.0	255.0	
125.9	BOND		SANDY SHALE	106.0	256.0	
19.9	BOND		LIMESTONE	4.0	362.0	
15.9	BOND		COAL	1.0	366.0	
14.9	BOND		GRAY SHALE	5.0	367.0	
9.9	BOND	CARTHAGE	BROWN LIMESTONE	3.0	372.0	
6.9	PATOKA		GRAY SHALE	105.0	375.0	
-98.1	PATOKA		BLACK SHALE	2.0	480.0	
-100.1	PATOKA		BROWN LIMESTONE	2.0	482.0	
-102.1	PATOKA		GRAY SHALE	46.0	484.0	
-148.1	PATOKA		SANDY SHALE	27.0	530.0	
-175.1	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	557.0	
-179.1	SHELBURN	WEST FRANKLIN	GRAY SHALE	2.0	561.0	
-181.1	SHELBURN	WEST FRANKLIN	LIMESTONE	4.0	563.0	
-185.1	SHELBURN		SANDY SHALE	13.0	567.0	
-198.1	SHELBURN		GRAY SHALE	135.0	580.0	
-333.1	SHELBURN		SANDY SHALE	49.0	715.0	
-382.1	SHELBURN	DANVILLE	COAL	2.0	764.0	
-384.1	SHELBURN		GRAY SHALE	12.0	766.0	
-396.1	SHELBURN		LIMESTONE	6.0	778.0	
-402.1	SHELBURN		GRAY SHALE	7.0	784.0	
-409.1	CARBONDALE	HERRIN	COAL	3.0	791.0	
-412.1	CARBONDALE		GRAY SHALE	3.0	794.0	
-415.1	CARBONDALE		LIMESTONE	3.0	797.0	
-418.1	CARBONDALE		GRAY SHALE	18.0	800.0	
-436.1	CARBONDALE		BROWN LIMESTONE	2.0	818.0	
-438.1	CARBONDALE		GRAY SHALE	30.0	820.0	
-468.1	CARBONDALE		BLACK SHALE	4.0	850.0	COALY
-472.1	CARBONDALE		GRAY SHALE	40.0	854.0	
-512.1	CARBONDALE		SANDY SHALE	18.0	894.0	

-530.1	CARBONDALE		GRAY SHALE	6.9	912.0
-537.0	CARBONDALE	SPRINGFIELD	RASH	0.1	918.9
-537.1	CARBONDALE	SPRINGFIELD	COAL	5.5	919.0
-542.6	CARBONDALE		GRAY SHALE	0.5	924.5
-543.1	CARBONDALE		SILTSTONE	1.4	925.0
-544.5	CARBONDALE		GRAY SANDSTONE	2.7	926.4
-547.2	CARBONDALE		SILTSTONE	1.8	929.1
-549.0	CARBONDALE		GRAY SANDSTONE	5.1	930.9
-554.1	CARBONDALE		SILTSTONE	5.4	936.0
-559.5	CARBONDALE		GRAY SHALE	4.7	941.4
-564.2	CARBONDALE		SILTSTONE	1.3	946.1
-565.5	CARBONDALE		SANDSTONE	1.9	947.4

MAPID: 18500213000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 492' N line, 1044' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.885995 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.310567 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2455.0 LOG TYPE:

SOURCE: CONTINENTAL OIL CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-50.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2025.0		BASE BARLOW	LIMESTONE	-	2455.0

MAPID: 18500251000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 365' S line, 17' E line of NW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.886987 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.309283 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2459.0 LOG TYPE:

SOURCE: HALSTED PETROL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-52.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0
-257.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	685.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2031.0		BASE BARLOW	LIMESTONE	-	2459.0

MAPID: 18500348000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 1650' S line, 1650' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888125 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.316487 DATE COLLECTED:
SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 2448.0 LOG TYPE:
SOURCE: SKELLY OIL CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1319.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1750.0
-2017.0		BASE BARLOW	LIMESTONE	-	2448.0

MAPID: 18500350000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 990' E line of NW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.890399 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.309204 DATE COLLECTED:
SURFACE ELEVATION (FT.): 422.0 LOGGED (FT.): 670.0 LOG TYPE:
SOURCE: WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	470.0
-248.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18500351000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 450' N line, 1336' E line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.887019 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.310687 DATE COLLECTED:
SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 2449.0 LOG TYPE:
SOURCE: HALSTED PETROL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-44.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	470.0
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	681.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2023.0		BASE BARLOW	LIMESTONE	-	2449.0

MAPID: 18501057000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 100' N line, 100' W line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.881996 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.318952 DATE COLLECTED:
SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 2477.0 LOG TYPE:
SOURCE: HALSTED PETROL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-12.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-242.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0
-1337.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1770.0
-2044.0		BASE BARLOW	LIMESTONE	-	2477.0

MAPID: 18501058000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 351' E line of SW NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.888124 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.31467 DATE COLLECTED:
SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 2441.0 LOG TYPE:
SOURCE: TRANS-TEX PROD WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-61.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	485.0
-246.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	670.0
-1330.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1754.0
-2017.0		BASE BARLOW	LIMESTONE	-	2441.0

MAPID: 18501059000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888064 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.312841 DATE COLLECTED:
SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 2438.0 LOG TYPE:
SOURCE: TEXACO, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	452.0
-247.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	668.0
-1334.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1755.0
-2017.0		BASE BARLOW	LIMESTONE	-	2438.0

MAPID: 18502939000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 2310' E line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.890425 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.30556 DATE COLLECTED:
SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2758.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-24.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	452.0
-255.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	683.0
-1340.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1768.0
-2028.0		BASE BARLOW	LIMESTONE	-	2456.0
-2330.0	RENAULT	BASE RENAULT	LIMESTONE	-	2758.0

MAPID: 18504796000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.885797 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.305528 DATE COLLECTED:
SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 2770.0 LOG TYPE:
SOURCE: CARROLL, DELL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-45.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	484.0
-269.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	708.0
-1367.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1806.0
-2044.0		BASE BARLOW	LIMESTONE	-	2483.0
-2331.0	RENAULT	BASE RENAULT	LIMESTONE	-	2770.0

MAPID: 18504797000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 168' N line, 86' W line of NE SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.886612 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.311462 DATE COLLECTED: 2 / 0 / 1940

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0 LOG TYPE: Drillers Log

SOURCE: TIDE WATER ASSOC. OIL CO. 1 WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN, COAL TO 1018'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	8.0	0.0
-			SANDY CLAY	32.0	8.0
-			SANDY SHALE	65.0	40.0
-			SANDSTONE	25.0	105.0
-			LIMESTONE	10.0	130.0
-			SANDY SHALE	8.0	140.0
-			CALCAREOUS SHALE	27.0	148.0
-			SANDSTONE	130.0	175.0
-			CALCAREOUS SHALE	50.0	305.0
-	PATOKA		SHALE	110.0	355.0
-	SHELBURN	WEST FRANKLIN	LIMESTONE	25.0	465.0
-	SHELBURN	WEST FRANKLIN	LIMESTONE	10.0	490.0
-	SHELBURN		COAL	5.0	500.0 THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	155.0	505.0
-	SHELBURN		LIMESTONE	12.0	660.0
-	CARBONDALE	HERRIN	COAL	6.0	672.0 THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	67.0	678.0
-	CARBONDALE		NO RECORD	100.0	745.0 NO RECORD GIVEN IN LOG
-	CARBONDALE		SANDSTONE	15.0	845.0
-	CARBONDALE		SHALE	26.0	860.0
-	CARBONDALE		CALCAREOUS SHALE	14.0	886.0
-	CARBONDALE		SANDSTONE	12.0	900.0
-	CARBONDALE		SHALE	48.0	912.0
-	CARBONDALE		SANDSTONE	12.0	960.0
-	CARBONDALE		SANDY SHALE	36.0	972.0
-	CARBONDALE	DAVIS	COAL	-	1008.0 THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18504798000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.885783 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.307359 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2760.0 LOG TYPE:
SOURCE: WEST DRLG-DEPUTY, THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-42.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	476.0
-264.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	698.0
-1360.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1794.0
-2038.0		BASE BARLOW	LIMESTONE	-	2472.0
-2326.0	RENAULT	BASE RENAULT	LIMESTONE	-	2760.0

MAPID: 18504798000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.885783 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.307359 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2870.0 LOG TYPE: Electric Log
SOURCE: WEST DRLG-DEPUTY, THE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-266.0	CARBONDALE	HERRIN	COAL	3.0	700.0
-320.0	CARBONDALE	BRIAR HILL	COAL	-	754.0
-386.0	CARBONDALE	SPRINGFIELD	COAL	5.0	820.0
-486.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 18504801000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888109 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.305544 DATE COLLECTED:
SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 2468.0 LOG TYPE:
SOURCE: CARROLL, DELL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	460.0
-256.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	690.0
-1354.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1788.0
-2034.0		BASE BARLOW	LIMESTONE	-	2468.0

MAPID: 18504805000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 29 **QUARTERS/FOOTAGES:** 273' N line, 294' W line of SW NE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.881312 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.314815 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 2488.0 **LOG TYPE:**
SOURCE: SELF, EDDIE M. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-2049.0		BASE BARLOW	LIMESTONE	- 2488.0	

MAPID: 18505282000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.883492 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.307348 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 2780.0 **LOG TYPE:**
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	- 532.0	
-271.0	CARBONDALE	HERRIN	UNCLASSIFIED	- 725.0	
-1366.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	- 1820.0	
-2040.0		BASE BARLOW	LIMESTONE	- 2494.0	
-2326.0	RENAULT	BASE RENAULT	LIMESTONE	- 2780.0	

MAPID: 18505283000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.883498 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.312827 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 2738.0 **LOG TYPE:**
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-39.0	MODESTO	WEST FRANKLIN	LIMESTONE	- 474.0	
-257.0	CARBONDALE	HERRIN	UNCLASSIFIED	- 692.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2017.0		BASE BARLOW	LIMESTONE	- 2452.0	
-2303.0	RENAULT	BASE RENAULT	LIMESTONE	- 2738.0	

MAPID: 18505462000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES:

QUADRANGLE: GRAYVILLE LONGITUDE: -87.884146 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.311922 DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 2476.0 LOG TYPE:

SOURCE: DELTA OIL CO., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1347.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1785.0
-2038.0		BASE BARLOW	LIMESTONE	-	2476.0

MAPID: 18505502000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 100' N line, 700' E line of SE NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.884795 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.3153 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 2446.0 LOG TYPE:

SOURCE: TEXACO, INC. WELL TYPE: Water Injection

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-38.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	466.0
-248.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	676.0
-1338.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1766.0
-2018.0		BASE BARLOW	LIMESTONE	-	2446.0

MAPID: 18505524000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 990' W line of SW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.888078 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.307371 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 2456.0 LOG TYPE:

SOURCE: TEXACO, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-21.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	448.0
-248.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	675.0
-1341.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1768.0
-2029.0		BASE BARLOW	LIMESTONE	-	2456.0

MAPID: 18527588000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 29

QUARTERS/FOOTAGES: NW SE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.880045

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.310072

DATE COLLECTED: 7 / 25 / 1986

SURFACE ELEVATION (FT.): 425.0

LOGGED (FT.): 300.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0			SANDY CLAY	15.0	0.0	
410.0			CLAY	15.0	15.0	MUD AND CLAY
395.0			CLAY	5.0	30.0	
390.0	MATTOON	FRIENDSVILLE	COAL	12.0	35.0	THICKNESS IS PROBABLY NOT ACCURATE
378.0	BOND		GRAY SHALE	43.0	47.0	
335.0	BOND		LIMESTONE	3.0	90.0	
332.0	BOND		COAL	6.0	93.0	THICKNESS IS PROBABLY NOT ACCURATE
326.0	BOND		GRAY SHALE	6.0	99.0	
320.0	BOND		LIMESTONE	5.0	105.0	
315.0	BOND		SANDSTONE	11.0	110.0	
304.0	BOND		SANDY SHALE	44.0	121.0	
260.0	BOND		DARK SHALE	30.0	165.0	
230.0	BOND	FLANNIGAN	COAL	2.0	195.0	THICKNESS IS PROBABLY NOT ACCURATE
228.0	BOND		GRAY SHALE	43.0	197.0	
185.0	BOND	MT. CARMEL	SANDSTONE	60.0	240.0	

MAPID: 18590171000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 225' N line, 20' E line of SW NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.878006 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.314857 DATE COLLECTED: 7 / 24 / 1984

SURFACE ELEVATION (FT.): 466.7 LOGGED (FT.): 935.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-315 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
466.7	PLEISTOCENE		CLAY	12.0	0.0
454.7	PLEISTOCENE		UNCONSOLIDATED	19.0	12.0
435.7	MATTOON		BROWN SHALE	11.0	31.0
424.7	MATTOON		DARK SHALE	17.0	42.0
407.7	MATTOON		GRAY SHALE	12.0	59.0
395.7	MATTOON		LIMESTONE	1.0	71.0
394.7	MATTOON		SANDY SHALE	31.0	72.0
363.7	MATTOON		LIMESTONE	2.0	103.0
361.7	MATTOON	FRIENDSVILLE	COAL	5.0	105.0
356.7	BOND		UNDERCLAY	0.8	110.0
355.9	BOND		LIMESTONE	1.1	110.8
354.8	BOND		SANDY SHALE	11.1	111.9
343.7	BOND		GRAY SANDSTONE	17.0	123.0
326.7	BOND		SANDY SHALE	35.0	140.0
291.7	BOND		GRAY SHALE	16.0	175.0
275.7	BOND		SANDY SHALE	10.0	191.0
265.7	BOND		GRAY SHALE	2.0	201.0
263.7	BOND	FLANNIGAN	COAL	2.5	203.0
261.2	BOND		UNDERCLAY	2.5	205.5
258.7	BOND		CALCAREOUS SHALE	19.0	208.0
239.7	BOND		GRAY SHALE	8.0	227.0
231.7	BOND		BROWN LIMESTONE	2.5	235.0
229.2	BOND		GRAY SHALE	116.3	237.5
112.9	PATOKA		SANDY SHALE	4.2	353.8
108.7	PATOKA		SANDY SHALE	21.0	358.0
87.7	PATOKA		GRAY SHALE	24.0	379.0
63.7	PATOKA		GRAY SANDSTONE	18.0	403.0
45.7	PATOKA		GRAY SHALE	108.0	421.0
-62.3	PATOKA	CHAPEL	COAL	3.5	529.0
-65.8	PATOKA		UNDERCLAY	3.5	532.5
-69.3	PATOKA		SANDY SHALE	5.0	536.0
-74.3	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	5.0	541.0
-79.3	SHELBURN	WEST FRANKLIN	GRAY SHALE	2.0	546.0
-81.3	SHELBURN	WEST FRANKLIN	BROWN LIMESTONE	7.0	548.0
-88.3	SHELBURN		SANDY SHALE	15.0	555.0
-103.3	SHELBURN		GRAY SHALE	76.0	570.0
-179.3	SHELBURN		SANDY SHALE	19.0	646.0
-198.3	SHELBURN		GRAY SANDSTONE	15.0	665.0
-213.3	SHELBURN		SANDY SHALE	37.0	680.0

-250.3	SHELBURN		GRAY SHALE	19.0	717.0
-269.3	SHELBURN	DANVILLE	COAL	3.0	736.0
-272.3	SHELBURN		UNDERCLAY	4.0	739.0
-276.3	SHELBURN		GRAY SHALE	17.0	743.0
-293.3	SHELBURN		LIMESTONE	2.5	760.0
-295.8	SHELBURN		GRAY SHALE	1.0	762.5
-296.8	CARBONDALE	HERRIN	COAL	4.5	763.5
-301.3	CARBONDALE		UNDERCLAY	3.0	768.0
-304.3	CARBONDALE		GRAY SHALE	14.0	771.0
-318.3	CARBONDALE		GRAY SANDSTONE	18.0	785.0
-336.3	CARBONDALE		SANDY SHALE	14.0	803.0
-350.3	CARBONDALE	BRIAR HILL	COAL	1.0	817.0
-351.3	CARBONDALE		BLACK SHALE	2.0	818.0
-353.3	CARBONDALE		SANDY SHALE	51.2	820.0
-404.5	CARBONDALE		GRAY SHALE	34.2	871.2
-438.7	CARBONDALE	SPRINGFIELD	COAL	7.3	905.4
-446.0	CARBONDALE		UNDERCLAY	0.8	912.7
-446.8	CARBONDALE		SANDY SHALE	0.5	913.5
-447.3	CARBONDALE		SANDSTONE	7.9	914.0
-455.2	CARBONDALE		SANDY SHALE	2.8	921.9
-458.0	CARBONDALE		CONGLOMERATE	0.7	924.7
-458.7	CARBONDALE		SANDSTONE/SHALE	8.0	925.4
-466.7	CARBONDALE		DARK SHALE	1.6	933.4

MAPID: 18590172000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 29 QUARTERS/FOOTAGES: 275' S line, 0' E line of SW SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.877993 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.305358 DATE COLLECTED: 8 / 23 / 1985

SURFACE ELEVATION (FT.): 385.9 LOGGED (FT.): 834.7 LOG TYPE: Drillers Log

SOURCE: AMAX T2-338 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.9	PLEISTOCENE		CLAY	12.0	0.0	
373.9			GRAY SHALE	13.0	12.0	
360.9			LIMESTONE	1.5	25.0	
359.4			GRAY SHALE	3.5	26.5	
355.9			GRAY SANDSTONE	11.0	30.0	
344.9			GRAY SHALE	107.0	41.0	
237.9			GRAY SANDSTONE	193.0	148.0	
44.9			GRAY SHALE	117.0	341.0	
-72.1			COAL	1.0	458.0	
-73.1			UNDERCLAY	1.0	459.0	
-74.1			LIMESTONE	3.0	460.0	
-77.1			GRAY SANDSTONE	3.0	463.0	
-80.1	SHELBURN		BROWN LIMESTONE	6.0	466.0	
-86.1	SHELBURN		GRAY SHALE	6.0	472.0	
-92.1	SHELBURN		BROWN LIMESTONE	11.0	478.0	
-103.1	SHELBURN		GRAY SHALE	164.0	489.0	
-267.1	SHELBURN	DANVILLE	COAL	5.0	653.0	
-272.1	SHELBURN		UNDERCLAY	2.0	658.0	
-274.1	SHELBURN		GRAY SHALE	5.0	660.0	
-279.1	SHELBURN		BROWN LIMESTONE	3.0	665.0	
-282.1	SHELBURN		GRAY SHALE	19.0	668.0	
-301.1	CARBONDALE	HERRIN	COAL	4.0	687.0	
-305.1	CARBONDALE		UNDERCLAY	2.0	691.0	
-307.1	CARBONDALE		GRAY SHALE	111.8	693.0	
-418.9	CARBONDALE	SPRINGFIELD	COAL	6.0	804.8	
-424.9	CARBONDALE		UNDERCLAY	2.3	810.8	
-427.2			CALCAREOUS SHALE	2.1	813.1	
-429.3			SANDSTONE	7.2	815.2	ARGILLACEOUS
-436.5			SILTY SHALE	5.6	822.4	
-442.1			SHALY SANDSTONE	6.7	828.0	

MAPID: 18500347000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 990' N line, 340' W line of NE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.896792 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.316517 DATE COLLECTED: 4 / 0 / 1940
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 2472.0 LOG TYPE: Drillers Log
SOURCE: W.N. BARTLETT 4 WELL TYPE: Dry Hole
COMMENT: NO COAL REPORTED DEEPER THAN 670'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			UNCLASSIFIED	180.0	0.0	LOG SAYS 'NO LOG'
250.0			SANDSTONE	115.0	180.0	
135.0			SHALE	139.0	295.0	
-4.0	SHELBURN	WEST FRANKLIN	LIMESTONE	11.0	434.0	
-15.0	SHELBURN		SHALE	184.0	445.0	
-199.0	SHELBURN		CALCAREOUS SHALE	35.0	629.0	
-234.0	SHELBURN		SHALE	4.0	664.0	
-238.0	CARBONDALE	HERRIN	COAL	2.0	668.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501404000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 1650' S line, 1650' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.910329 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.316572 DATE COLLECTED:
SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 2880.0 LOG TYPE: Electric Log
SOURCE: KINSELL, W. H. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-269.0	CARBONDALE	HERRIN	COAL	2.0	652.0	
-325.0	CARBONDALE	BRIAR HILL	COAL	-	708.0	
-414.0	CARBONDALE	SPRINGFIELD	COAL	8.0	797.0	
-477.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0	

MAPID: 18504823000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 280' E line of NW NE NE
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.895658 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.318334 DATE COLLECTED: 4 / 0 / 1940
 SURFACE ELEVATION (FT.): LOGGED (FT.): 2479.0 LOG TYPE: Drillers Log
 SOURCE: TEXAS COMPANY, THE 3A WELL TYPE: Dry Hole
 COMMENT: NO ELEVATION GIVEN. COAL ONLY TO 672'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY SHALE	145.0	0.0	
-			SHALE	30.0	145.0	
-			SANDY SHALE	145.0	175.0	
-			SHALE	30.0	320.0	
-	PATOKA		SANDSTONE	35.0	350.0	
-	PATOKA		SHALE	49.0	385.0	
-	SHELBURN	WEST FRANKLIN	LIMESTONE	10.0	434.0	
-	SHELBURN		SANDSTONE	16.0	444.0	
-	SHELBURN		SHALE	120.0	460.0	
-	SHELBURN		SANDSTONE	8.0	580.0	
-	SHELBURN		SHALE	2.0	588.0	
-	SHELBURN		SANDSTONE	20.0	590.0	
-	SHELBURN		SHALE	45.0	610.0	
-	SHELBURN	BRERETON	LIMESTONE	5.0	655.0	
-	CARBONDALE		SHALE	10.0	660.0	
-	CARBONDALE	HERRIN	COAL	2.0	670.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18505333000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: SW SW SE SW
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.910473 GEOLOGIST: HOKE
 CONFIDENTIAL: N LATITUDE: 38.305197 DATE COLLECTED: 7 / 17 / 1957
 SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO 44FR WELL TYPE: Coal Test
 COMMENT: SEE COAL SECTION MAP#2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
383.0			UNCONSOLIDATED	85.0	0.0	

MAPID: 18505343000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 30

QUARTERS/FOOTAGES:

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.904617

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.311995

DATE COLLECTED: 7 / 26 / 1957

SURFACE ELEVATION (FT.): 422.0

LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

54FR

WELL TYPE: Coal Test

COMMENT: EXACT LOCATION IN SECTION QUESTIONABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
422.0			UNCONSOLIDATED	85.0	0.0	

MAPID: 18590010000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 437' S line, 1512' E line of NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.91005 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.313348 DATE COLLECTED: 8 / 8 / 1990

SURFACE ELEVATION (FT.): 378.4 LOGGED (FT.): 833.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-446 WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
378.4	PLEISTOCENE		CLAY	13.0	0.0	
365.4	PLEISTOCENE		SAND & GRAVEL	12.0	13.0	
353.4	PLEISTOCENE		UNCONSOLIDATED	70.0	25.0	
283.4	BOND		SANDY SHALE	17.0	95.0	
266.4	BOND		LIMESTONE	1.0	112.0	BROWN
265.4	BOND		SANDY SHALE	8.0	113.0	
257.4	BOND	MT. CARMEL	SANDSTONE	129.0	121.0	
128.4	BOND		SANDY SHALE	101.0	250.0	
27.4	BOND	CARTHAGE	LIMESTONE	1.0	351.0	BROWN
26.4	MODESTO		SANDY SHALE	66.0	352.0	
-39.6	MODESTO		LIMESTONE	1.5	418.0	BROWN
-41.1	MODESTO		GREEN SHALE	2.5	419.5	
-43.6	MODESTO		LIMESTONE	3.0	422.0	BROWN
-46.6	MODESTO		GRAY SHALE	5.0	425.0	
-51.6	MODESTO		LIMESTONE	1.5	430.0	BROWN
-53.1	MODESTO		SANDY SHALE	3.5	431.5	
-56.6	MODESTO	TRIVOLI	SANDSTONE	16.0	435.0	
-72.6	MODESTO		SANDY SHALE	67.0	451.0	
-139.6	MODESTO	WEST FRANKLIN	LIMESTONE	1.5	518.0	
-141.1	MODESTO		SANDY SHALE	45.5	519.5	
-186.6	MODESTO		SANDSTONE	10.0	565.0	
-196.6	MODESTO	FARMINGTON	SANDY SHALE	53.5	575.0	
-250.1	CARBONDALE	DANVILLE	COAL	3.0	628.5	APPROXIMATE THICKNESS
-253.1	CARBONDALE		UNDERCLAY	2.5	631.5	
-255.6	CARBONDALE		GREEN SHALE	6.0	634.0	
-261.6	CARBONDALE		LIMESTONE	0.5	640.0	
-262.1	CARBONDALE		SANDY SHALE	3.5	640.5	
-265.6	CARBONDALE		LIMESTONE	1.0	644.0	BROWN
-266.6	CARBONDALE		GREEN SHALE	8.5	645.0	
-275.1	CARBONDALE	BRERETON	LIMESTONE	6.5	653.5	GRAY
-281.6	CARBONDALE	ANNA	BLACK SHALE	1.5	660.0	
-283.1	CARBONDALE	HERRIN	COAL	4.5	661.5	
-287.6	CARBONDALE		UNDERCLAY	2.0	666.0	
-289.6	CARBONDALE		SANDY SHALE	58.0	668.0	
-347.6	CARBONDALE	BRIAR HILL	COAL	1.0	726.0	
-348.6	CARBONDALE		GRAY SHALE	27.0	727.0	
-375.6	CARBONDALE	DYKERSBURG	CALCAREOUS SHALE	43.2	754.0	
-418.8	CARBONDALE	SPRINGFIELD	COAL	6.8	797.2	
-425.6	CARBONDALE		CLAYSTONE	2.7	804.0	

-428.3	CARBONDALE	SILTY SHALE	4.8	806.7
-433.1	CARBONDALE	LIMESTONE	1.7	811.5
-434.8	CARBONDALE	SILTY SHALE	0.8	813.2
-435.6	CARBONDALE	SANDSTONE	10.8	814.0
-446.4	CARBONDALE	GRAY SHALE	8.2	824.8

MAPID: 18590014000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 300' S line, 1540' W line of NE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.899209

GEOLOGIST: NORTH

CONFIDENTIAL: N

LATITUDE: 38.312803

DATE COLLECTED: 7 / 11 / 1989

SURFACE ELEVATION (FT.): 421.3

LOGGED (FT.): 830.9

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-420

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.3	PLEISTOCENE		CLAY	20.0	0.0	
401.3	PLEISTOCENE		SAND	8.0	20.0	
393.3	PLEISTOCENE		CLAY	7.0	28.0	
386.3	BOND		SANDY SHALE	59.0	35.0	
327.3	BOND		SHALY SANDSTONE	9.0	94.0	
318.3	BOND		GREEN SHALE	44.0	103.0	
274.3	BOND	LIVINGSTON	LIMESTONE	1.0	147.0	
273.3	BOND		GREEN SHALE	27.0	148.0	
246.3	BOND		SHALY SANDSTONE	5.0	175.0	
241.3	BOND		BLACK SHALE	10.0	180.0	SOME SANDSTONE
231.3	BOND		SANDY SHALE	20.0	190.0	
211.3	BOND	MT. CARMEL	SANDSTONE	72.0	210.0	
139.3	MODESTO		SANDY SHALE	102.0	282.0	
37.3	MODESTO	TRIVOLI	SANDSTONE	26.0	384.0	
11.3	MODESTO		GREEN SHALE	18.0	410.0	
-6.7	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	428.0	
-12.7	MODESTO		SANDY SHALE	78.0	434.0	
-90.7	MODESTO		SANDSTONE	8.0	512.0	
-98.7	MODESTO		SANDY SHALE	32.0	520.0	
-130.7	MODESTO		CALCAREOUS SHALE	8.0	552.0	
-138.7	MODESTO		GREEN SHALE	8.0	560.0	
-146.7	MODESTO		LIMESTONE	2.0	568.0	GRAY
-148.7	MODESTO		SANDSTONE	11.0	570.0	
-159.7	MODESTO	FARMINGTON	SANDY SHALE	49.0	581.0	
-208.7	CARBONDALE	DANVILLE	COAL	3.5	630.0	APPROXIMATE THICKNESS
-212.2	CARBONDALE		UNDERCLAY	1.5	633.5	
-213.7	CARBONDALE		GREEN SHALE	4.5	635.0	
-218.2	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	639.5	GRAY
-219.2	CARBONDALE		CALCAREOUS SHALE	2.5	640.5	
-221.7	CARBONDALE	CONANT	LIMESTONE	2.0	643.0	GRAY
-223.7	CARBONDALE		CALCAREOUS SHALE	9.5	645.0	
-233.2	CARBONDALE	BRERETON	LIMESTONE	3.5	654.5	GRAY
-236.7	CARBONDALE	ANNA	BLACK SHALE	1.0	658.0	
-237.7	CARBONDALE	HERRIN	COAL	4.0	659.0	APPROXIMATE THICKNESS
-241.7	CARBONDALE		UNDERCLAY	1.0	663.0	
-242.7	CARBONDALE		GREEN SHALE	2.0	664.0	
-244.7	CARBONDALE		GREEN SHALE	34.0	666.0	
-278.7	CARBONDALE		SANDY SHALE	40.5	700.0	
-319.2	CARBONDALE		SILTSTONE	11.5	740.5	AND GRAY SHALE

-330.7	CARBONDALE	DYKERSBURG	SILTY SHALE	49.6	752.0	
-380.3	CARBONDALE	SPRINGFIELD	COAL	7.3	801.6	
-387.6	CARBONDALE		CLAYSTONE	2.3	808.9	
-389.9	CARBONDALE		SILTSTONE	8.5	811.2	
-398.4	CARBONDALE		SANDSTONE	3.0	819.7	
-401.4	CARBONDALE	SPRINGFIELD	COAL	1.3	822.7	SUMP
-402.7	CARBONDALE		SANDSTONE	6.9	824.0	

MAPID: 18590015000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 400' N line, 500' W line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.902834 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.310987 DATE COLLECTED: 7 / 16 / 1990

SURFACE ELEVATION (FT.): 419.2 LOGGED (FT.): 843.5 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-444 WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
419.2	PLEISTOCENE		CLAY	8.0	0.0	
411.2	PLEISTOCENE		SAND	12.0	8.0	CLAY
399.2	PLEISTOCENE		UNCONSOLIDATED	110.0	20.0	
289.2	PLEISTOCENE		SAND	4.0	130.0	
285.2	BOND		SANDY SHALE	2.0	134.0	
283.2	BOND		SANDSTONE	36.0	136.0	GRAY
247.2	BOND		GREEN SHALE	5.0	172.0	
242.2	BOND	MT. CARMEL	SANDSTONE	72.0	177.0	GRAY
170.2			BLACK SHALE	4.0	249.0	
166.2			SANDY SHALE	8.0	253.0	
158.2			LIMESTONE	1.0	261.0	BROWN
157.2			SANDY SHALE	0.5	262.0	
156.7	MODESTO	MACOUPIN	LIMESTONE	6.0	262.5	BROWN
150.7	MODESTO		SANDSTONE	18.5	268.5	GRAY
132.2	MODESTO		SANDY SHALE	56.0	287.0	
76.2	MODESTO		BLACK SHALE	2.5	343.0	
73.7	MODESTO		LIMESTONE	2.5	345.5	
71.2	MODESTO		GREEN SHALE	26.0	348.0	
45.2	MODESTO		SANDSTONE	1.0	374.0	GRAY
44.2	MODESTO		GREEN SHALE	5.0	375.0	
39.2	MODESTO	WEST FRANKLIN	LIMESTONE	49.0	380.0	GRAY
-9.8	MODESTO	WEST FRANKLIN	GREEN SHALE	3.5	429.0	
-13.3	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	432.5	GRAY
-15.8	MODESTO	WEST FRANKLIN	GREEN SHALE	2.5	435.0	
-18.3	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	437.5	GRAY
-20.8	MODESTO	WEST FRANKLIN	SANDY SHALE	18.0	440.0	
-38.8	MODESTO	WEST FRANKLIN	LIMESTONE	0.5	458.0	GRAY
-39.3	MODESTO		SANDY SHALE	111.0	458.5	
-150.3	MODESTO		LIMESTONE	0.5	569.5	GRAY
-150.8	MODESTO	FARMINGTON	SANDY SHALE	67.0	570.0	
-217.8	CARBONDALE	DANVILLE	COAL	3.0	637.0	APPROXIMATE THICKNESS
-220.8	CARBONDALE		UNDERCLAY	2.0	640.0	
-222.8	CARBONDALE		GREEN SHALE	6.0	642.0	
-228.8	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	648.0	BROWN
-231.8	CARBONDALE		SANDY SHALE	11.0	651.0	
-242.8	CARBONDALE	BRERETON	LIMESTONE	3.0	662.0	GRAY
-245.8	CARBONDALE	ANNA	BLACK SHALE	3.0	665.0	
-248.8	CARBONDALE	HERRIN	COAL	3.0	668.0	
-251.8	CARBONDALE		GRAY SHALE	21.5	671.0	

-273.3	CARBONDALE		LIMESTONE	0.5	692.5	BROWN
-273.8	CARBONDALE		SANDY SHALE	57.0	693.0	
-330.8	CARBONDALE	DYKERSBURG	SANDY SHALE	61.3	750.0	
-392.1	CARBONDALE	SPRINGFIELD	COAL	8.0	811.3	APPROXIMATE THICKNESS
-400.1	CARBONDALE		GREEN SHALE	0.7	819.3	
-400.8	CARBONDALE		SILTSTONE	5.8	820.0	
-406.6	CARBONDALE		SANDSTONE	17.7	825.8	GRAY

MAPID: 18590016000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 1300' S line, 830' E line of NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.894343

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.315544

DATE COLLECTED: 6 / 30 / 1989

SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 824.0

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-423

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
423.0	PLEISTOCENE		CLAY	10.0	0.0
413.0	PLEISTOCENE		UNCONSOLIDATED	55.0	10.0
358.0	BOND		SHALY SANDSTONE	6.0	65.0
352.0	BOND		GREEN SHALE	22.0	71.0
330.0	BOND		SHALY SANDSTONE	30.0	93.0
300.0	BOND		GREEN SHALE	47.0	123.0
253.0	BOND	MT. CARMEL	SANDSTONE	20.0	170.0
233.0	BOND	MT. CARMEL	SANDY SHALE	15.0	190.0
218.0	BOND	MT. CARMEL	SHALY SANDSTONE	35.0	205.0
183.0	BOND		SANDSTONE/SHALE	12.0	240.0
171.0	BOND	CARTHAGE	LIMESTONE	5.0	252.0 TRACE COAL
166.0	MODESTO		SANDY SHALE	29.0	257.0
137.0	MODESTO		SANDSTONE	2.0	286.0 TRACE COAL
135.0	MODESTO		SANDY SHALE	151.0	288.0
-16.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	439.0
-23.0	MODESTO	WEST FRANKLIN	GREEN SHALE	8.0	446.0
-31.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	454.0
-41.0	MODESTO		GREEN SHALE	96.0	464.0
-137.0	MODESTO		SHALY SANDSTONE	32.0	560.0
-169.0	MODESTO	FARMINGTON	GREEN SHALE	35.5	592.0
-204.5	CARBONDALE	DANVILLE	COAL	3.1	627.5
-207.6	CARBONDALE		SHALE	4.4	630.6
-212.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	635.0
-216.0	CARBONDALE		GREEN SHALE	8.0	639.0
-224.0	CARBONDALE		SHALY SANDSTONE	8.0	647.0
-232.0	CARBONDALE	BRERETON	LIMESTONE	6.0	655.0
-238.0	CARBONDALE	ANNA	BLACK SHALE	2.0	661.0
-240.0	CARBONDALE	HERRIN	COAL	4.0	663.0
-244.0	CARBONDALE		GREEN SHALE	78.5	667.0
-322.5	CARBONDALE	DYKERSBURG	SILTY SHALE	45.5	745.5
-368.0	CARBONDALE	SPRINGFIELD	COAL	6.4	791.0
-374.4	CARBONDALE		CLAYSTONE	0.9	797.4
-375.3	CARBONDALE		GREEN SHALE	3.8	798.3
-379.1	CARBONDALE		GRAY SANDSTONE	0.6	802.1
-379.7	CARBONDALE		GREEN SHALE	4.4	802.7
-384.1	CARBONDALE		GRAY SANDSTONE	3.4	807.1
-387.5	CARBONDALE		SILTY SHALE	2.0	810.5
-389.5	CARBONDALE		GRAY SANDSTONE	0.6	812.5
-390.1	CARBONDALE		SILTY SHALE	4.3	813.1

-394.4	CARBONDALE	GRAY SANDSTONE	1.2	817.4
-395.6	CARBONDALE	SILTY SHALE	1.0	818.6
-396.6	CARBONDALE	GRAY SANDSTONE	2.4	819.6
-399.0	CARBONDALE	SILTY SHALE	2.0	822.0

MAPID: 18590017000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 30 **QUARTERS/FOOTAGES:** 1000' N line, 80' W line of NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.917475 **GEOLOGIST:** NORTH
CONFIDENTIAL: N **LATITUDE:** 38.316703 **DATE COLLECTED:** 7 / 18 / 1989
SURFACE ELEVATION (FT.): 375.5 **LOGGED (FT.):** 830.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX COAL CO T2-424 **WELL TYPE:** Coal Test
COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
375.5	PLEISTOCENE		CLAY	4.5	0.0
371.0	PLEISTOCENE		SAND	17.5	4.5
353.5	PLEISTOCENE		CLAY	69.0	22.0
284.5	BOND		GREEN SHALE	4.0	91.0
280.5	BOND		SANDSTONE	4.0	95.0
276.5	BOND		GREEN SHALE	2.0	99.0
274.5	BOND	MT. CARMEL	SANDSTONE	140.0	101.0
134.5			SANDY SHALE	160.0	241.0
-25.5			LIMESTONE	2.0	401.0 GRAY
-27.5			GREEN SHALE	2.0	403.0
-29.5	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	405.0 GRAY
-33.5	MODESTO	FARMINGTON	SANDY SHALE	197.6	409.0
-231.1	CARBONDALE	DANVILLE	COAL	3.4	606.6
-234.5	CARBONDALE		UNDERCLAY	1.0	610.0
-235.5	CARBONDALE		GREEN SHALE	7.0	611.0
-242.5	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	618.0 GRAY
-245.5	CARBONDALE		SANDY SHALE	15.0	621.0
-260.5	CARBONDALE	BRERETON	LIMESTONE	1.5	636.0 GRAY
-262.0	CARBONDALE		GREEN SHALE	1.0	637.5
-263.0	CARBONDALE	HERRIN	COAL	4.2	638.5
-267.2	CARBONDALE		UNDERCLAY	1.3	642.7
-268.5	CARBONDALE		GREEN SHALE	3.0	644.0
-271.5	CARBONDALE		SANDSTONE	15.0	647.0 GRAY
-286.5	CARBONDALE		SANDY SHALE	58.5	662.0
-345.0	CARBONDALE	DYKERSBURG	SILTY SHALE	58.9	720.5
-403.9	CARBONDALE	SPRINGFIELD	COAL	7.5	779.4
-411.4	CARBONDALE		CLAYSTONE	1.5	786.9
-412.9	CARBONDALE		SILTY SHALE	9.6	788.4
-422.5	CARBONDALE		SILTSTONE	1.6	798.0 GRAY
-424.1	CARBONDALE		SANDSTONE	22.3	799.6
-446.4	CARBONDALE		GREEN SHALE	8.1	821.9

MAPID: 18590019000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 1226' N line, 834' E line of SW

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.907715

GEOLOGIST: NORTH

CONFIDENTIAL: N

LATITUDE: 38.308498

DATE COLLECTED: 8 / 2 / 1990

SURFACE ELEVATION (FT.): 380.1

LOGGED (FT.): 823.8

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-445

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
380.1	PLEISTOCENE		CLAY	6.0	0.0	
374.1	PLEISTOCENE		SAND	9.0	6.0	
365.1	PLEISTOCENE		GRAVEL	10.5	15.0	
354.6	PLEISTOCENE		UNCONSOLIDATED	45.5	25.5	
309.1	PLEISTOCENE		SAND & GRAVEL	6.0	71.0	
303.1	PLEISTOCENE		UNCONSOLIDATED	6.5	77.0	
296.6	PLEISTOCENE		GRAVEL	10.0	83.5	
286.6	PLEISTOCENE		UNCONSOLIDATED	8.5	93.5	
278.1	BOND		SANDY SHALE	17.0	102.0	
261.1	BOND	MT. CARMEL	SANDSTONE	96.0	119.0	GRAY
165.1	MODESTO		SANDY SHALE	20.0	215.0	
145.1	MODESTO	TRIVOLI	SANDSTONE	17.0	235.0	GRAY
128.1	MODESTO		SANDY SHALE	158.0	252.0	
-29.9	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	410.0	
-32.4	MODESTO	WEST FRANKLIN	GREEN SHALE	2.5	412.5	
-34.9	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	415.0	BROWN
-36.9	MODESTO		GRAY SHALE	5.5	417.0	
-42.4	MODESTO		SANDSTONE	4.5	422.5	GRAY
-46.9	MODESTO	FARMINGTON	GREEN SHALE	190.0	427.0	
-236.9	CARBONDALE	DANVILLE	COAL	3.0	617.0	APPROXIMATE THICKNESS
-239.9	CARBONDALE		UNDERCLAY	3.0	620.0	
-242.9	CARBONDALE		SANDY SHALE	12.0	623.0	
-254.9	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	635.0	BROWN
-257.9	CARBONDALE		SANDY SHALE	11.0	638.0	
-268.9	CARBONDALE	BRERETON	LIMESTONE	1.5	649.0	
-270.4	CARBONDALE	ANNA	BLACK SHALE	2.0	650.5	
-272.4	CARBONDALE	HERRIN	COAL	2.5	652.5	APPROXIMATE THICKNESS
-274.9	CARBONDALE		UNDERCLAY	2.0	655.0	
-276.9	CARBONDALE		SANDY SHALE	71.8	657.0	
-348.7	CARBONDALE	DYKERSBURG	SILTY SHALE	60.7	728.8	
-409.4	CARBONDALE	SPRINGFIELD	COAL	7.1	789.5	
-416.5	CARBONDALE		SILTY SHALE	7.1	796.6	
-423.6	CARBONDALE		SILTSTONE	15.4	803.7	
-439.0	CARBONDALE		SANDSTONE	4.7	819.1	GRAY

MAPID: 18590032000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 30 QUARTERS/FOOTAGES: 80' S line, 50' E line of SW SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.911232

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.304945

DATE COLLECTED: 6 / 6 / 1988

SURFACE ELEVATION (FT.): 385.9 LOGGED (FT.): 805.7

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-375

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.9	PLEISTOCENE		SANDY CLAY	13.0	0.0	
372.9	PLEISTOCENE		SAND & GRAVEL	18.0	13.0	
354.9	PLEISTOCENE		CLAY	85.0	31.0	
269.9	BOND		GREEN SHALE	10.0	116.0	
259.9	BOND		BLACK SHALE	1.0	126.0	
258.9	BOND	REEL	LIMESTONE	2.5	127.0	
256.4	BOND		SANDY SHALE	54.5	129.5	
201.9	BOND	MT. CARMEL	SANDSTONE	51.0	184.0	
150.9	BOND	CARTHAGE	LIMESTONE	4.5	235.0	
146.4	MODESTO		GREEN SHALE	95.5	239.5	
50.9	MODESTO		BLACK SHALE	1.0	335.0	
49.9	MODESTO	CHAPEL	COAL	1.0	336.0	APPROXIMATE THICKNESS
48.9	MODESTO		UNDERCLAY	1.0	337.0	
47.9	MODESTO		GREEN SHALE	31.5	338.0	
16.4	MODESTO	TRIVOLI	SANDSTONE	7.5	369.5	
8.9	MODESTO		GREEN SHALE	40.0	377.0	
-31.1	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	417.0	
-34.1	MODESTO	WEST FRANKLIN	GREEN SHALE	2.0	420.0	
-36.1	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	422.0	
-38.6	MODESTO		SANDY SHALE	10.5	424.5	
-49.1	MODESTO		GREEN SHALE	120.0	435.0	
-169.1	MODESTO		SANDY SHALE	6.5	555.0	
-175.6	MODESTO		SANDSTONE	12.5	561.5	
-188.1	MODESTO	FARMINGTON	SANDY SHALE	45.0	574.0	
-233.1	CARBONDALE	DANVILLE	COAL	3.3	619.0	
-236.4	CARBONDALE		UNDERCLAY	0.7	622.3	
-237.1	CARBONDALE		SANDY SHALE	5.0	623.0	
-242.1	CARBONDALE	BANKSTON FORK	LIMESTONE	3.5	628.0	BROWN
-245.6	CARBONDALE		SANDY SHALE	14.5	631.5	
-260.1	CARBONDALE	BRERETON	LIMESTONE	5.0	646.0	GRAY
-265.1	CARBONDALE	HERRIN	COAL	4.0	651.0	
-269.1	CARBONDALE		UNDERCLAY	1.5	655.0	
-270.6	CARBONDALE		SANDY SHALE	53.5	656.5	
-324.1	CARBONDALE		BLACK SHALE	1.0	710.0	
-325.1	CARBONDALE	DYKERSBURG	SILTY SHALE	64.3	711.0	
-389.4	CARBONDALE	SPRINGFIELD	COAL	6.1	775.3	
-395.5	CARBONDALE		CLAYSTONE	1.3	781.4	
-396.8	CARBONDALE		SILTY SHALE	8.3	782.7	
-405.1	CARBONDALE		SANDSTONE	14.7	791.0	GRAY

MAPID: 18504830000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 31

QUARTERS/FOOTAGES: 857' N line, 330' E line

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.892783

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.302296

DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 2496.0

LOG TYPE: Electric Log

SOURCE: CLARK & CLARK PETROL

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-266.0	CARBONDALE	HERRIN	COAL	3.0	706.0	
-320.0	CARBONDALE	BRIAR HILL	COAL	-	760.0	
-398.0	CARBONDALE	SPRINGFIELD	COAL	6.0	838.0	
-478.0	CARBONDALE	HOUCHIN CREEK	COAL	-	918.0	

MAPID: 18504838000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 31 QUARTERS/FOOTAGES: 3600' N line, 3880' E line

QUADRANGLE: GRAYVILLE LONGITUDE: -87.905354 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.29478 DATE COLLECTED: 0 / 0 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 2468.0 LOG TYPE: Drillers Log

SOURCE: HARRY RANDALL ET AL 1 WELL TYPE: Dry Hole

COMMENT: NO ELEVATION. NO COAL AFTER 1120'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCLASSIFIED	240.0	0.0	LOG SHOWS 'NO RECORD'
-			CALCAREOUS SHALE	73.0	240.0	
-			SHALE	32.0	313.0	
-			COAL	4.0	345.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SHALE	41.0	349.0	
-	PATOKA		SANDY SHALE	22.0	390.0	
-	PATOKA		CALCAREOUS SHALE	5.0	412.0	
-	PATOKA		SANDSTONE	27.0	417.0	
-	SHELBURN	WEST FRANKLIN	LIMESTONE	29.0	444.0	
-	SHELBURN		COAL	2.0	473.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	96.0	475.0	SH & SDY SH
-	SHELBURN		SHALE	67.0	571.0	SH & SDY SH
-	SHELBURN		LIMESTONE	5.0	638.0	
-	SHELBURN		SHALE	24.0	643.0	
-	CARBONDALE	HERRIN	COAL	6.0	667.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		CALCAREOUS SHALE	17.0	673.0	
-	CARBONDALE		SHALE	10.0	690.0	
-	CARBONDALE		LIMESTONE	5.0	700.0	
-	CARBONDALE		SHALE	95.0	705.0	
-	CARBONDALE		SANDY SHALE	143.0	800.0	
-	CARBONDALE		SHALE	37.0	943.0	SH W/ COAL AND LS STREAKS
-			SANDSTONE	35.0	980.0	
-			SHALE	15.0	1015.0	SH W/ COAL & SS STREAKS
-			LIMESTONE	70.0	1030.0	SANDY LS
-			SHALE	5.0	1100.0	
-			COAL	2.0	1105.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SHALE	8.0	1107.0	
-			COAL	5.0	1115.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18527606000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 31 QUARTERS/FOOTAGES: 480' S line, 100' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.903589 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.298666 DATE COLLECTED: 1 / 15 / 1987
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 245.0 LOG TYPE: Drillers Log
SOURCE: H & H OIL COMPANY, INC. 1-WSW WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
380.0			CLAY	12.0	0.0	
368.0			SAND	6.0	12.0	SD & GRAVEL
362.0			SAND	22.0	18.0	SD & MUD
340.0			CLAY	50.0	40.0	
290.0			LIMESTONE	2.0	90.0	
288.0			GRAY SHALE	22.0	92.0	
266.0			COAL	2.0	114.0	THICKNESS IS PROBABLY NOT ACCURATE
264.0			LIMESTONE	2.0	116.0	
262.0			SANDSTONE	22.0	118.0	
240.0			SANDSTONE	42.0	140.0	
198.0			GRAY SHALE	58.0	182.0	
140.0			SANDSTONE	5.0	240.0	

MAPID: 18502147000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.890677 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.290887 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2503.0 LOG TYPE: Electric Log
SOURCE: CLARK & CLARK PETROL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	3.0	713.0	
-	CARBONDALE	BRIAR HILL	COAL	-	768.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.0	836.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	928.0	

MAPID: 18502159000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 990' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888129 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.303722 DATE COLLECTED:
SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 2770.0 LOG TYPE:
SOURCE: BAINES, DON DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-30.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	469.0
-263.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	702.0
-1366.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1805.0
-2043.0		BASE BARLOW	LIMESTONE	-	2482.0
-2331.0	RENAULT	BASE RENAULT	LIMESTONE	-	2770.0

MAPID: 18502958000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 330' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.890441 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.303737 DATE COLLECTED:
SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 2471.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-30.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	467.0
-263.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	700.0
-1345.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1782.0
-2034.0		BASE BARLOW	LIMESTONE	-	2471.0

MAPID: 18502987000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 330' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.890677 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.290887 DATE COLLECTED:
SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2720.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-154.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	540.0
-329.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	715.0
-1436.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1822.0
-2099.0		BASE BARLOW	LIMESTONE	-	2485.0
-2334.0	RENAULT	BASE RENAULT	LIMESTONE	-	2720.0

MAPID: 18504843000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 1650' S line, 330' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.89061 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.294531 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2467.0 LOG TYPE:
SOURCE: CLARK & CLARK PETROL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-94.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	482.0
-306.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	694.0
-1405.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1793.0
-2079.0		BASE BARLOW	LIMESTONE	-	2467.0

MAPID: 18505067000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 990' N line, 990' W line of SW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888365 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.29091 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2746.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-145.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	532.0
-352.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	739.0
-1454.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1841.0
-2127.0		BASE BARLOW	LIMESTONE	-	2514.0
-2359.0	RENAULT	BASE RENAULT	LIMESTONE	-	2746.0

MAPID: 18505068000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 990' W line of SW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888331 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.292732 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2736.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-147.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	534.0
-330.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	717.0
-1447.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1834.0
-2117.0		BASE BARLOW	LIMESTONE	-	2504.0
-2349.0	RENAULT	BASE RENAULT	LIMESTONE	-	2736.0

MAPID: 18505083000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 380' N line, 330' W line of SW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.890646 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.292596 DATE COLLECTED:
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 2732.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-141.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	530.0
-323.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	712.0
-1419.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1808.0
-2095.0		BASE BARLOW	LIMESTONE	-	2484.0
-2343.0	RENAULT	BASE RENAULT	LIMESTONE	-	2732.0

MAPID: 18505084000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 1650' S line, 1650' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.885988 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.294535 DATE COLLECTED:
SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2750.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-134.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	520.0
-348.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	734.0
-1458.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1844.0
-2130.0		BASE BARLOW	LIMESTONE	-	2516.0
-2364.0	RENAULT	BASE RENAULT	LIMESTONE	-	2750.0

MAPID: 18505106000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 2310' S line, 1650' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.885954 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.296357 DATE COLLECTED:
SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2742.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	498.0
-336.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	722.0
-1442.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1828.0
-2113.0		BASE BARLOW	LIMESTONE	-	2499.0
-2356.0	RENAULT	BASE RENAULT	LIMESTONE	-	2742.0

MAPID: 18505271000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 990' N line, 990' W line of NW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888163 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.3019 DATE COLLECTED:
SURFACE ELEVATION (FT.): 394.0 LOGGED (FT.): 2742.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1368.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1762.0
-2053.0		BASE BARLOW	LIMESTONE	-	2447.0
-2348.0	RENAULT	BASE RENAULT	LIMESTONE	-	2742.0

MAPID: 18505272000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 1850' N line, 990' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.888206 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.299526 DATE COLLECTED:
SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2746.0 LOG TYPE:
SOURCE: KELLEY&CONRAD&KAYE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-1370.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1756.0
-2066.0		BASE BARLOW	LIMESTONE	-	2452.0
-2360.0	RENAULT	BASE RENAULT	LIMESTONE	-	2746.0

MAPID: 18505781000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES: 330' S line, 990' W line of NW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.8883 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.294554 DATE COLLECTED:
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 2784.0 LOG TYPE:
SOURCE: BRUBECK, W. E. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	504.0
-326.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	715.0
-1428.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1817.0
-2099.0		BASE BARLOW	LIMESTONE	-	2488.0
-2395.0	RENAULT	BASE RENAULT	LIMESTONE	-	2784.0

MAPID: 18590173000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 32 QUARTERS/FOOTAGES:

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.8824

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 38.29721

DATE COLLECTED: 8 / 9 / 1985

SURFACE ELEVATION (FT.): 378.3

LOGGED (FT.): 951.0

LOG TYPE: Drillers Log

SOURCE: AMAX T2-334

WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
378.3	PLEISTOCENE		CLAY	7.0	0.0
371.3	PLEISTOCENE		SAND & GRAVEL	101.0	7.0
270.3	PLEISTOCENE		SAND	30.0	108.0
240.3			GRAY SHALE	73.0	138.0
167.3			BROWN LIMESTONE	1.0	211.0
166.3			SANDY SHALE	44.0	212.0
122.3			GRAY SANDSTONE	36.0	256.0
86.3				5.0	292.0
81.3			GRAY SANDSTONE	61.0	297.0
20.3			GRAY SHALE	29.0	358.0
-8.7			GRAY SANDSTONE	9.0	387.0
-17.7			GRAY SHALE	70.0	396.0
-87.7			COAL	2.0	466.0
-89.7			GRAY SHALE	87.0	468.0
-176.7	SHELBURN		BROWN LIMESTONE	5.0	555.0
-181.7	SHELBURN		GRAY SHALE	2.5	560.0
-184.2	SHELBURN		BROWN LIMESTONE	16.5	562.5
-200.7	SHELBURN		GRAY SHALE	157.0	579.0
-357.7	SHELBURN	DANVILLE	COAL	3.0	736.0
-360.7	SHELBURN		GRAY SHALE	12.0	739.0
-372.7	SHELBURN		LIMESTONE	8.0	751.0
-380.7	SHELBURN		GRAY SHALE	11.0	759.0
-391.7	SHELBURN		GRAY SANDSTONE	10.0	770.0
-401.7	CARBONDALE	HERRIN	COAL	4.0	780.0
-405.7	CARBONDALE		UNDERCLAY	2.0	784.0
-407.7	CARBONDALE		GRAY SHALE	4.0	786.0
-411.7	CARBONDALE		GRAY SANDSTONE	24.0	790.0
-435.7	CARBONDALE		GRAY SHALE	48.0	814.0
-483.7	CARBONDALE		GRAY SANDSTONE	37.0	862.0
-520.7	CARBONDALE		SILTY SHALE	20.7	899.0
-541.4	CARBONDALE	SPRINGFIELD	COAL	6.2	919.7
-547.6	CARBONDALE		DARK SHALE	0.2	925.9
-547.8	CARBONDALE		UNDERCLAY	1.1	926.1
-548.9	CARBONDALE		SANDY SHALE	1.2	927.2
-550.1	CARBONDALE		SANDSTONE	22.6	928.4

MAPID: 18501074000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.856533 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.292727 DATE COLLECTED:

SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2710.0 LOG TYPE:

SOURCE: FOX, FRANK G & FOX, W J WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
79.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	307.0
-170.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	556.0
-1356.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1742.0
-2033.0		BASE BARLOW	LIMESTONE	-	2419.0
-2324.0	RENAULT	BASE RENAULT	LIMESTONE	-	2710.0

MAPID: 18501074000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.856533 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.292727 DATE COLLECTED:

SURFACE ELEVATION (FT.): 386.0 LOGGED (FT.): 2800.0 LOG TYPE: Electric Log

SOURCE: FOX, FRANK G & FOX, W J WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-172.0	CARBONDALE	HERRIN	COAL	3.0	558.0
-219.0	CARBONDALE	BRIAR HILL	COAL	-	605.0
-316.0	CARBONDALE	SPRINGFIELD	COAL	6.0	702.0
-392.0	CARBONDALE	HOUCHIN CREEK	COAL	-	778.0

MAPID: 18590040000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 33 QUARTERS/FOOTAGES: 150' S line, 350' E line of SW SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.860833

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.290218

DATE COLLECTED: 8 / 13 / 1985

SURFACE ELEVATION (FT.): 386.2 LOGGED (FT.): 718.7

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-335

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.2	PLEISTOCENE		CLAY	5.0	0.0	
381.2	PLEISTOCENE		SAND	17.0	5.0	
364.2	PLEISTOCENE		SAND & GRAVEL	46.0	22.0	
318.2	BOND		SHALE	17.0	68.0	
301.2	BOND	MT. CARMEL	SANDSTONE	15.0	85.0	
286.2			GREEN SHALE	182.0	100.0	
104.2	MODESTO	TRIVOLI	SANDSTONE	30.0	282.0	
74.2	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	312.0	
63.2	MODESTO		GREEN SHALE	33.0	323.0	
30.2	MODESTO		SANDSTONE	3.0	356.0	
27.2	MODESTO		GRAY SHALE	96.0	359.0	
-68.8	MODESTO		SANDSTONE	6.0	455.0	
-74.8	MODESTO	FARMINGTON	GREEN SHALE	63.0	461.0	
-137.8	CARBONDALE	DANVILLE	COAL	2.0	524.0	APPROXIMATE THICKNESS
-139.8	CARBONDALE		UNDERCLAY	2.0	526.0	
-141.8	CARBONDALE		GREEN SHALE	4.0	528.0	
-145.8	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	532.0	GRAY
-150.8	CARBONDALE		GREEN SHALE	7.0	537.0	
-157.8	CARBONDALE		SANDSTONE	1.0	544.0	
-158.8	CARBONDALE		GREEN SHALE	6.0	545.0	
-164.8	CARBONDALE	BRERETON	LIMESTONE	6.0	551.0	GRAY
-170.8	CARBONDALE	HERRIN	COAL	5.0	557.0	APPROXIMATE THICKNESS
-175.8	CARBONDALE		UNDERCLAY	6.0	562.0	
-181.8	CARBONDALE	DYKERSBURG	GRAY SHALE	128.0	568.0	
-309.8	CARBONDALE	SPRINGFIELD	COAL	6.4	696.0	
-316.2	CARBONDALE		UNDERCLAY	1.3	702.4	
-317.5	CARBONDALE		SANDY SHALE	2.3	703.7	
-319.8	CARBONDALE		SANDSTONE	10.6	706.0	
-330.4	CARBONDALE		SHALE	2.1	716.6	

MAPID: 18501075000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847194 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.299834 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2690.0 LOG TYPE:
SOURCE: FOX, FRANK G & FOX, W J WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
78.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	310.0
-172.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	560.0
-1333.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1721.0
-2003.0		BASE BARLOW	LIMESTONE	-	2391.0
-2302.0	RENAULT	BASE RENAULT	LIMESTONE	-	2690.0

MAPID: 18501076000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847428 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.292553 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 540.0 LOG TYPE:
SOURCE: FOX, FRANK G & FOX, W J WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
94.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	294.0
-152.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	540.0

MAPID: 18501628000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840183 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.30147 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2678.0 LOG TYPE:
SOURCE: RYAN & SHARP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
38.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	350.0
-176.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	564.0
-1318.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1706.0
-1979.0		BASE BARLOW	LIMESTONE	-	2367.0
-2290.0	RENAULT	BASE RENAULT	LIMESTONE	-	2678.0

MAPID: 18501630000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847134 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.301655 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2389.0 LOG TYPE:
SOURCE: CENTRAL PIPELINE CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
63.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	324.0
-177.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	564.0
-1328.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1715.0
-2002.0		BASE BARLOW	LIMESTONE	-	2389.0

MAPID: 18502359000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.845117 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.292503 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2388.0 LOG TYPE:
SOURCE: DAVIS ALVA C PETRO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
98.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	290.0
-148.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	536.0
-1326.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1714.0
-2000.0		BASE BARLOW	LIMESTONE	-	2388.0

MAPID: 18502740000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.845057 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.294325 DATE COLLECTED:
SURFACE ELEVATION (FT.): 385.0 LOGGED (FT.): 2386.0 LOG TYPE:
SOURCE: MISKELL, J. & WHITE, C. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
90.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	295.0
-152.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	537.0
-1330.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1715.0
-2001.0		BASE BARLOW	LIMESTONE	-	2386.0

MAPID: 18504844000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840333 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.297849 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2371.0 LOG TYPE:
SOURCE: PEAK DRLG CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
68.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	320.0
-169.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	557.0
-1320.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1708.0
-1983.0		BASE BARLOW	LIMESTONE	-	2371.0

MAPID: 18504844000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE NE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840333 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.297849 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2401.0 LOG TYPE: Electric Log
SOURCE: PEAK DRLG CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-170.0	CARBONDALE	HERRIN	COAL	3.0	558.0
-224.0	CARBONDALE	BRIAR HILL	COAL	-	612.0
-309.0	CARBONDALE	SPRINGFIELD	COAL	6.0	697.0
-402.0	CARBONDALE	HOUCHIN CREEK	COAL	-	790.0

MAPID: 18504845000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 990' W line of NE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.838176 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.294182 DATE COLLECTED:
SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2377.0 LOG TYPE:
SOURCE: REZNIK JOE WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
93.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	300.0
-152.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	545.0
-1321.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1714.0
-1984.0		BASE BARLOW	LIMESTONE	-	2377.0

MAPID: 18504846000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.840561 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.292407 DATE COLLECTED:
SURFACE ELEVATION (FT.): 388.0 LOGGED (FT.): 2672.0 LOG TYPE:
SOURCE: RYAN & SHARP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
94.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	294.0
-154.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	542.0
-1324.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1712.0
-1991.0		BASE BARLOW	LIMESTONE	-	2379.0
-2284.0	RENAULT	BASE RENAULT	LIMESTONE	-	2672.0

MAPID: 18504847000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.83832 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.292361 DATE COLLECTED:
SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 2373.0 LOG TYPE:
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
92.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	299.0
-144.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	535.0
-1312.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1703.0
-1982.0		BASE BARLOW	LIMESTONE	-	2373.0

MAPID: 18504848000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' E line
QUADRANGLE: KEENSBURG LONGITUDE: -87.838411 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.290568 DATE COLLECTED:
SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 2379.0 LOG TYPE:
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
91.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	292.0
-157.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	540.0
-1327.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1710.0
-1996.0		BASE BARLOW	LIMESTONE	-	2379.0

MAPID: 18504850000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847253 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.298015 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2379.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
83.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	297.0
-160.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	540.0
-1330.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1710.0
-1999.0		BASE BARLOW	LIMESTONE	-	2379.0

MAPID: 18504851000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.847078 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.303474 DATE COLLECTED:
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 2394.0 LOG TYPE:
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
31.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	358.0
-186.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	575.0
-1331.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1720.0
-2005.0		BASE BARLOW	LIMESTONE	-	2394.0

MAPID: 18504852000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW
QUADRANGLE: KEENSBURG LONGITUDE: -87.851735 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.30361 DATE COLLECTED:
SURFACE ELEVATION (FT.): 390.0 LOGGED (FT.): 2402.0 LOG TYPE:
SOURCE: WHITE & VICKERY WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
63.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	327.0
-176.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	566.0
-1340.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1730.0
-2012.0		BASE BARLOW	LIMESTONE	-	2402.0

MAPID: 18505239000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 13W

SECTION: 34

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.849505

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.299895

DATE COLLECTED:

SURFACE ELEVATION (FT.): 383.0

LOGGED (FT.): 554.0

LOG TYPE:

SOURCE:

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
73.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	310.0	
-171.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	554.0	

MAPID: 18527147000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 400' S line, 1400' E line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.842146 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.290829 DATE COLLECTED: 0 / 0 / 1982
 SURFACE ELEVATION (FT.): LOGGED (FT.): 732.0 LOG TYPE: Survey Core Study
 SOURCE: AMAX COAL T2-267 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	100.0	0.0	
-			NO RECORD	0.5	100.0	CORE LOSS
-			LIMESTONE	2.4	100.5	GRY BRN
-			BLACK SHALE	1.6	102.9	
-			SHALE	1.6	104.5	DK GRAY
-			LAMINATED SILTSTONE	2.0	106.0	LT GRY
-			LAMINATED SILTSTONE	8.0	108.0	W/PYRITE NODULES
-			LAMINATED SILTSTONE	8.0	116.0	VERY MICACEOUS
-			LAMINATED SILTSTONE	8.0	124.0	
-			LAMINATED SILTSTONE	8.0	132.0	AS ABOVE, BUT MUD INCREASES TOWARD BASE
-			LAMINATED SILTSTONE	1.5	140.0	W/BLACK LAMINAE
-			COAL	0.8	141.5	
-			ARGILACEOUS SHALE	5.2	142.3	
-			CORE LOSS	0.5	147.5	
-			ARGILACEOUS SHALE	4.0	148.0	
-			SILTSTONE	1.7	152.0	LT GRAY
-			ARGILACEOUS SHALE	0.3	153.7	
-			ARGILACEOUS SHALE	2.0	154.0	
-			ARGILACEOUS SHALE	8.0	156.0	
-			SILTSTONE	0.8	164.0	LT GRAY
-			ARGILACEOUS SHALE	7.3	164.8	
-			ARGILACEOUS SHALE	8.0	172.0	
-			ARGILACEOUS SHALE	8.0	180.0	
-			ARGILACEOUS SHALE	7.5	188.0	
-			ARGILACEOUS SHALE	0.4	195.5	
-			COAL	0.1	195.9	
-			COAL	0.4	196.0	
-			COAL	1.5	196.4	
-			CLAYSTONE	0.1	197.9	DK GRAY
-			CLAYSTONE	2.0	198.0	GRN GRAY
-			MUDSTONE	4.0	200.0	
-			MUDSTONE	8.0	204.0	
-			SILTSTONE	8.0	212.0	LT GRAY
-			SILTSTONE	7.5	220.0	LT GRAY
-			ARGILACEOUS SHALE	0.5	227.5	
-			SILTSTONE	8.0	228.0	
-			SILTSTONE	8.0	236.0	
-			SILTSTONE	0.5	244.0	
-			SANDSTONE	7.5	244.5	LT GRAY

-	SANDSTONE	8.0	252.0	LT GRAY
-	SANDSTONE	8.0	260.0	
-	SANDSTONE	8.0	268.0	
-	CONGLOMERATE	1.3	276.0	
-	ARGILACEOUS SHALE	0.3	277.3	
-	SILTSTONE	0.5	277.6	LT GRAY
-	COAL	0.7	278.0	
-	CLAYSTONE	1.3	278.7	QUESTIONABLE DEPTH
-	ARGILACEOUS SHALE	0.7	281.3	
-	ARGILACEOUS SHALE	0.5	282.0	
-	ARGILACEOUS SHALE	1.5	282.5	
-	ARGILACEOUS SHALE	5.2	284.0	
-	LIMESTONE	2.0	289.2	GAP IN LOG
-	LIMESTONE	3.3	292.0	
-	LIMESTONE	3.7	295.3	
-	CLAYSTONE	1.0	299.0	
-	CLAYSTONE	0.7	300.0	
-	ARGILACEOUS SHALE	3.3	300.7	
-	SILTSTONE	4.0	304.0	GRN GRAY
-	SILTSTONE	8.0	308.0	GRN GRAY
-	SILTSTONE	2.0	316.0	
-	SILTY SHALE	6.0	318.0	
-	SILTSTONE & SHALE	8.0	324.0	
-	SILTSTONE & SHALE	1.0	332.0	
-	ARGILACEOUS SHALE	7.0	333.0	
-	ARGILACEOUS SHALE	8.0	340.0	
-	ARGILACEOUS SHALE	0.5	348.0	
-	SILTSTONE	1.5	348.5	
-	LAMINATED SILTSTONE	2.0	350.0	LT GRAY
-	SILTY SHALE	4.0	352.0	
-	SILTY SHALE	6.0	356.0	
-	ARGILACEOUS SHALE	2.0	362.0	
-	ARGILACEOUS SHALE	7.3	364.0	
-	SILTSTONE	0.8	371.3	
-	SILTSTONE	1.5	372.0	
-	LAMINATED SILTSTONE	6.1	373.5	LT GRAY
-	SILTSTONE	0.4	379.6	LT GRAY
-	SILTSTONE	6.0	380.0	
-	SILTY SHALE	2.0	386.0	
-	SILTY SHALE	8.0	388.0	
-	SILTY CLAYSTONE	8.0	396.0	MED GRAY
-	SILTY CLAYSTONE	1.0	404.0	
-	CLAYSTONE	6.8	405.1	
-	DOLOMITE	0.1	411.8	LT BRN
-	SILTSTONE	0.2	411.9	
-	SILTSTONE	0.2	412.0	
-	ARGILACEOUS SHALE	0.2	412.2	
-	LAMINATED SILTSTONE	6.6	412.4	LT GRAY

-			ARGILACEOUS SHALE	1.0	419.0	
-			ARGILACEOUS SHALE	1.0	420.0	
-			LAMINATED SILTSTONE	7.0	421.0	
-			LAMINATED SILTSTONE	6.0	428.0	LT GRAY
-				2.0	434.0	
-				3.0	436.0	
-			ARGILACEOUS SHALE	5.0	439.0	
-			ARGILACEOUS SHALE	8.0	444.0	
-			ARGILACEOUS SHALE	8.0	452.0	
-			ARGILACEOUS SHALE	8.0	460.0	
-			ARGILACEOUS SHALE	8.0	468.0	
-			ARGILACEOUS SHALE	8.0	476.0	
-			ARGILACEOUS SHALE	8.0	484.0	
-			ARGILACEOUS SHALE	1.0	492.9	1'+ CORE MISSING
-	CARBONDALE	DANVILLE	COAL	3.6	493.9	
-			CLAYSTONE	0.5	497.5	QUESTIONABLE DEPTH
-			NO RECORD	2.5	497.5	CORE MISSING
-			CLAYSTONE	1.5	500.0	BRN GRAY
-			CLAYSTONE	3.0	501.5	BRN GRAY
-	CARBONDALE	BANKSTON FORK	LIMESTONE	3.5	504.5	LT GRAY
-	CARBONDALE	BANKSTON FORK	LIMESTONE	2.3	508.0	
-			CLAYSTONE	1.5	510.3	
-			SHALE	3.8	511.8	& SILTSTONE
-			CLAYSTONE	0.3	515.6	OLV GRAY
-			SANDSTONE	2.3	515.9	LT GRAY
-			SHALE	3.8	518.2	
-			SHALE	3.5	522.0	DK GRAY
-			SHALE	0.4	525.5	JAMESTON COAL POSITION
-	CARBONDALE	BRERETON	LIMESTONE	5.7	525.9	BUFF-GRY
-	CARBONDALE	ANNA	BLACK SHALE	0.4	531.6	
-			UNKNOWN	7.0	532.0	INCLUDES HERRIN #6 COAL
-			CLAYSTONE	2.0	539.0	
-			SILTSTONE	2.3	541.0	GRN GRAY
-			SHALE	11.2	543.3	MED GRAY
-			SANDSTONE	9.0	554.5	LT GRAY
-			SILTSTONE	22.5	563.5	MED GRAY
-			SHALE	2.4	586.0	DK GRAY
-			BLACK SHALE	0.4	588.4	
-			BLACK SHALE	1.7	588.8	
-			SHALE	1.1	590.5	DK GRAY
-			SANDSTONE	1.4	591.6	LT GRAY
-			SANDSTONE	17.0	593.0	& SHALE
-	CARBONDALE	DYKERSBURG	SHALE	61.0	610.0	DK GRAY
-			UNKNOWN	9.0	671.0	CORE REMOVED BY CO.-SPRINGFIELD #5 COAL
-			MUDSTONE	1.0	680.0	
-			SANDSTONE	13.0	681.0	LT GRAY
-			SILTSTONE	17.0	694.0	GRAY

-

SANDSTONE

21.0

711.0

LT GRAY

MAPID: 18527148000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 400' S line, 600' E line
 QUADRANGLE: KEENSBURG LONGITUDE: -87.839348 GEOLOGIST: JACOBSON
 CONFIDENTIAL: N LATITUDE: 38.290777 DATE COLLECTED: 0 / 0 / 1982
 SURFACE ELEVATION (FT.): LOGGED (FT.): 759.0 LOG TYPE: Survey Core Study
 SOURCE: AMAX COAL T2-269 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	75.0	0.0	
-			SANDSTONE	20.6	75.0	LT GRAY
-			COAL	0.8	95.6	GAP IN CORE
-			LIMESTONE	6.0	96.4	
-			BLACK SHALE	1.4	102.4	
-			SHALE	7.2	103.8	DK GRAY
-			SANDSTONE	4.0	111.0	LT GRAY
-			SHALE	23.0	115.0	MED GRAY
-			COAL	0.9	138.0	
-			GRAY SHALE	7.3	138.9	
-			COAL	1.7	146.2	
-			SHALE	1.0	147.9	GRN GRAY
-			CARBONACEOUS CLAYSTONE	0.7	148.9	
-			SILTSTONE	7.4	149.6	MED GRAY
-			GRAY SHALE	38.0	157.0	
-			SHALE	1.1	195.0	
-			COAL	0.6	196.1	
-			CLAYSTONE	4.3	196.7	GRN GRAY
-			SHALE	7.0	201.0	MED GRAY
-			SILTSTONE	30.2	208.0	MED GRAY
-			SANDSTONE	36.1	238.2	LT GRAY
-			CONGLOMERATE	0.7	274.3	
-			SANDSTONE	1.6	275.0	
-			SHALE	1.6	276.6	MED GRAY
-			CONGLOMERATE	1.7	278.2	
-			SHALE	1.1	279.9	DK GRAY
-			CONGLOMERATE	0.9	281.0	
-			SHALE	1.6	281.9	GRN GRAY
-			SILTSTONE	4.6	283.5	LT GRAY
-			SANDSTONE	2.7	288.1	LT GRAY
-			SILTSTONE	1.1	290.8	
-			LIMESTONE	5.4	291.9	LT GRAY
-			GRAY SHALE	4.6	297.3	
-			LIMESTONE	4.2	301.9	BRN GRAY
-			LIMESTONE	2.5	306.1	LT GRAY
-			SHALE	5.0	308.6	
-			SANDSTONE	3.8	313.6	GRAY
-			SILTSTONE	14.6	317.4	GRN GRAY

-			GRAY SHALE	14.9	332.0	
-			SANDSTONE	1.5	346.9	LT GRAY
-			SILTSTONE	6.6	348.4	GRAY
-			GRAY SHALE	14.7	355.0	
-			SANDSTONE	4.3	369.7	GRAY
-			SILTSTONE	10.0	374.0	GRAY
-			GRAY SHALE	20.0	384.0	
-			GRAY SHALE	6.8	404.0	
-			SHALE & SANDSTONE	6.5	410.8	
-			SANDSTONE	2.0	417.3	LT GRAY
-			SILTSTONE	16.7	419.3	MED GRAY
-			SHALE	53.0	436.0	GAP IN CORE; MED GRAY
-	CARBONDALE	DANVILLE	COAL	5.0	489.0	
-			SANDSTONE	2.6	494.0	LT GRAY
-			GRAY SHALE	1.9	496.6	
-			CLAYSTONE	5.2	498.5	DK GRAY
-	CARBONDALE	BANKSTON FORK	LIMESTONE	4.7	503.7	GRY BRN
-			CLAYSTONE	0.4	508.4	GRN GRAY
-			SHALE	6.2	508.8	OLV BLK
-			SHALE	0.3	515.0	
-			SANDSTONE	2.0	515.3	LT GRAY
-			SILTSTONE	3.5	517.3	
-			SHALE	3.8	520.8	DK GRAY
-			GRAY SHALE	0.3	524.6	(HORIZON OF JAMESTOWN COAL)
-	CARBONDALE	BRERETON	LIMESTONE	5.6	524.9	GRAY
-	CARBONDALE	ANNA	SHALE	0.5	530.5	
-	CARBONDALE	HERRIN	COAL	7.8	531.0	REMOVED BY CO.
-			MUDSTONE	12.9	538.8	LOG HAS THICKNESS AS 12.2
-			SANDSTONE	13.3	551.7	LOG HAS THICKNESS AS 13.7; LT GRAY
-			SILTSTONE	21.0	565.0	GRAY
-			SHALE	2.4	586.0	DK GRAY
-			BLACK SHALE	0.4	588.4	
-			SHALE	1.6	588.8	GRY BLK
-			SHALE	1.2	590.4	DK GRAY
-			SILTSTONE	1.4	591.6	GRAY
-			SILTSTONE	13.0	593.0	
-	CARBONDALE	DYKERSBURG	GRAY SHALE	56.2	606.0	
-			UNKNOWN	6.8	662.2	INCLUDES #5 SPRINGFIELD - REMOVED BY CO.
-			SILTSTONE	18.0	669.0	LT GRAY
-			GRAY SHALE	8.0	687.0	
-			SANDSTONE/SHALE	14.7	695.0	
-			SANDSTONE	14.9	709.7	LT GRAY
-			CONGLOMERATE	3.0	724.6	SHALE-PEBBLE CONGLOMERATE
-			SANDSTONE	25.0	727.6	LOG SAYS THICKNESS 23.00
-			GRAY SHALE	6.4	752.6	

MAPID: 18590022000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 271' S line, 218' E line of SE SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.847099

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.290563

DATE COLLECTED: 11 / 26 / 1980

SURFACE ELEVATION (FT.): 381.1 LOGGED (FT.): 800.0

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-270

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
381.1	PLEISTOCENE		SANDY CLAY	20.0	0.0	
361.1	PLEISTOCENE		SAND & GRAVEL	42.0	20.0	
319.1	PLEISTOCENE		SAND	23.0	62.0	WHITE
296.1	BOND	FLANNIGAN	COAL	2.0	85.0	APPROXIMATE THICKNESS
294.1	BOND		UNDERCLAY	1.0	87.0	
293.1	BOND		GREEN SHALE	26.0	88.0	
267.1	BOND	MT. CARMEL	SANDSTONE	15.0	114.0	
252.1	MODESTO		GREEN SHALE	91.0	129.0	
161.1	MODESTO		SANDSTONE	9.0	220.0	GRAY
152.1	MODESTO		GREEN SHALE	10.0	229.0	
142.1	MODESTO	TRIVOLI	SANDSTONE	23.0	239.0	
119.1	MODESTO		GREEN SHALE	28.0	262.0	
91.1	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	290.0	BROWN
76.1	MODESTO		SANDSTONE	14.0	305.0	
62.1	MODESTO		SANDY SHALE	100.0	319.0	
-37.9	MODESTO		LIMESTONE	3.0	419.0	
-40.9	MODESTO	FARMINGTON	SANDY SHALE	71.0	422.0	
-111.9	CARBONDALE	DANVILLE	COAL	3.0	493.0	APPROXIMATE THICKNESS
-114.9	CARBONDALE		UNDERCLAY	1.0	496.0	
-115.9	CARBONDALE		GREEN SHALE	15.0	497.0	
-130.9	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	512.0	
-136.9	CARBONDALE		GREEN SHALE	7.0	518.0	
-143.9	CARBONDALE	CONANT	LIMESTONE	2.0	525.0	
-145.9	CARBONDALE		GREEN SHALE	9.0	527.0	
-154.9	CARBONDALE	BRERETON	LIMESTONE	1.5	536.0	
-156.4	CARBONDALE	ANNA	BLACK SHALE	3.5	537.5	
-159.9	CARBONDALE	HERRIN	COAL	4.0	541.0	APPROXIMATE THICKNESS
-163.9	CARBONDALE		UNDERCLAY	2.0	545.0	
-165.9	CARBONDALE	DYKERSBURG	SANDY SHALE	117.0	547.0	
-282.9	CARBONDALE		BLACK SHALE	0.1	664.0	
-283.0	CARBONDALE	SPRINGFIELD	COAL	5.9	664.1	
-288.9	CARBONDALE		UNDERCLAY	2.0	670.0	
-290.9	CARBONDALE		GREEN SHALE	6.0	672.0	
-296.9	CARBONDALE		SANDSTONE	21.0	678.0	
-317.9	CARBONDALE		GREEN SHALE	69.0	699.0	
-386.9	CARBONDALE	HANOVER	BLACK LIMESTONE	3.0	768.0	
-389.9	CARBONDALE	EXCELLO	BLACK SHALE	2.0	771.0	
-391.9	CARBONDALE	HOUCHIN CREEK	COAL	4.0	773.0	APPROXIMATE THICKNESS
-395.9	CARBONDALE		UNDERCLAY	3.0	777.0	100+FEET MISSING (POSSIBLE FAULTING)

-398.9	CARBONDALE	GREEN SHALE	3.0	780.0	APPROXIMATE THICKNESS
-401.9	CARBONDALE	COAL	2.0	783.0	
-403.9	CARBONDALE	UNDERCLAY	1.0	785.0	
-404.9	CARBONDALE	GREEN SHALE	14.0	786.0	

MAPID: 18590174000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 698' S line, 47' W line of NE SE

QUADRANGLE: KEENSBURG LONGITUDE: -87.841434 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.295256 DATE COLLECTED: 8 / 1 / 1980

SURFACE ELEVATION (FT.): 381.0 LOGGED (FT.): 688.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-249 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
381.0	PLEISTOCENE		CLAY	7.0	0.0
374.0	PLEISTOCENE		SAND	3.0	7.0
371.0	PLEISTOCENE		SAND & GRAVEL	4.0	10.0
367.0	PLEISTOCENE			11.0	14.0
356.0	PLEISTOCENE		SAND & GRAVEL	30.0	25.0
326.0	PLEISTOCENE			5.0	55.0
321.0	BOND		SANDSTONE	48.0	60.0
273.0	BOND		LIMESTONE	4.5	108.0
268.5	BOND		BLACK SHALE	2.5	112.5
266.0	BOND		SANDSTONE	15.0	115.0
251.0			SANDY SHALE	13.0	130.0
238.0			COAL	1.0	143.0
237.0			UNDERCLAY	1.0	144.0
236.0			SANDY SHALE	61.0	145.0
175.0			COAL	2.0	206.0
173.0			GRAY SHALE	2.0	208.0
171.0			GRAY SHALE	8.0	210.0
163.0			SANDY SHALE	22.0	218.0
141.0	PATOKA	TRIVOLI	SANDSTONE	30.0	240.0
111.0	SHELBURN		LIMESTONE	4.0	270.0
107.0	SHELBURN		SANDSTONE	11.0	274.0
96.0	SHELBURN		LIMESTONE	3.0	285.0
93.0	SHELBURN		GRAY SHALE	11.5	288.0
81.5	SHELBURN	WEST FRANKLIN	LIMESTONE	6.0	299.5
75.5	SHELBURN	WEST FRANKLIN	MICACEOUS SHALE	3.5	305.5
72.0	SHELBURN	WEST FRANKLIN	LIMESTONE	9.0	309.0
63.0	SHELBURN		MICACEOUS SHALE	1.5	318.0
61.5	SHELBURN		LIMESTONE	1.5	319.5
60.0	SHELBURN		SANDY SHALE	109.0	321.0
-49.0	SHELBURN		CALCAREOUS SHALE	11.0	430.0
-60.0	SHELBURN		SANDY SHALE	51.5	441.0
-111.5	SHELBURN	DANVILLE	COAL	3.5	492.5
-115.0	SHELBURN		UNDERCLAY	2.0	496.0
-117.0	SHELBURN		GRAY SHALE	12.0	498.0
-129.0	SHELBURN		LIMESTONE	5.0	510.0
-134.0	SHELBURN		GRAY SHALE	6.0	515.0
-140.0	SHELBURN		LIMESTONE	4.0	521.0
-144.0	SHELBURN		GRAY SHALE	7.0	525.0
-151.0	SHELBURN	BRERETON	LIMESTONE	6.0	532.0

-157.0	CARBONDALE	ANNA	BLACK SHALE	1.5	538.0	
-158.5	CARBONDALE	HERRIN	COAL	3.5	539.5	
-162.0	CARBONDALE		UNDERCLAY	3.0	543.0	
-165.0	CARBONDALE		SANDY SHALE	57.0	546.0	
-222.0	CARBONDALE		BLACK SHALE	0.5	603.0	
-222.5	CARBONDALE	BRIAR HILL	COAL	0.5	603.5	
-223.0	CARBONDALE		UNDERCLAY	1.0	604.0	
-224.0	CARBONDALE		SANDY SHALE	68.6	605.0	
-292.6	CARBONDALE	SPRINGFIELD	COAL	6.5	673.6	
-299.1	CARBONDALE		UNDERCLAY	1.2	680.1	
-300.3	CARBONDALE		CALCAREOUS SHALE	2.5	681.3	
-302.8	CARBONDALE		LIMESTONE	3.9	683.8	NODULAR
-306.7	CARBONDALE		SANDSTONE	0.3	687.7	

MAPID: 18590175000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.843758 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.298837 DATE COLLECTED: 8 / 7 / 1980

SURFACE ELEVATION (FT.): 380.2 LOGGED (FT.): 800.0 LOG TYPE: Drillers Log

SOURCE: AMAX T2-250 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
380.2	PLEISTOCENE		CLAY	2.0	0.0
378.2	PLEISTOCENE		SANDY CLAY	9.0	2.0
369.2	PLEISTOCENE		SAND	4.0	11.0
365.2	PLEISTOCENE			10.0	15.0
355.2	PLEISTOCENE		SAND & GRAVEL	30.0	25.0
325.2			SANDSTONE	59.0	55.0
266.2			LIMESTONE	3.0	114.0
263.2			BLACK SHALE	2.5	117.0
260.7			LIMESTONE	0.5	119.5
260.2			SANDY SHALE	25.0	120.0
235.2			COAL	2.0	145.0
233.2			UNDERCLAY	1.0	147.0
232.2			CALCAREOUS SHALE	61.0	148.0
171.2			COAL	1.0	209.0
170.2			UNDERCLAY	1.0	210.0
169.2			SANDY SHALE	58.0	211.0
111.2			LIMESTONE	2.5	269.0
108.7			SANDY SHALE	29.5	271.5
79.2	SHELBURN	WEST FRANKLIN	LIMESTONE	8.0	301.0
71.2	SHELBURN		SANDSTONE	25.0	309.0
46.2	SHELBURN		SANDY SHALE	166.0	334.0
-119.8	SHELBURN	DANVILLE	COAL	5.0	500.0
-124.8	SHELBURN		UNDERCLAY	1.0	505.0
-125.8	SHELBURN		SANDY SHALE	9.0	506.0
-134.8	SHELBURN		LIMESTONE	4.5	515.0
-139.3	SHELBURN		CALCAREOUS SHALE	7.5	519.5
-146.8	SHELBURN		COAL	1.0	527.0
-147.8	SHELBURN		UNDERCLAY	1.0	528.0
-148.8	SHELBURN		GRAY SHALE	9.0	529.0
-157.8	SHELBURN	BRERETON	LIMESTONE	5.5	538.0
-163.3	CARBONDALE	ANNA	BLACK SHALE	2.5	543.5
-165.8	CARBONDALE	HERRIN	COAL	4.0	546.0
-169.8	CARBONDALE		UNDERCLAY	2.0	550.0
-171.8	CARBONDALE		SANDY SHALE	46.0	552.0
-217.8	CARBONDALE	BRIAR HILL	COAL	1.0	598.0
-218.8	CARBONDALE		UNDERCLAY	1.0	599.0
-219.8	CARBONDALE		SANDY SHALE	52.0	600.0
-271.8	CARBONDALE		SANDY SHALE	25.5	652.0
-297.3	CARBONDALE		BLACK SHALE	0.2	677.5

-297.5	CARBONDALE	SPRINGFIELD	COAL	6.3	677.7
-303.8	CARBONDALE		UNDERCLAY	1.0	684.0
-304.8	CARBONDALE		SANDY SHALE	1.3	685.0
-306.1	CARBONDALE		CALCAREOUS SHALE	2.4	686.3
-308.5	CARBONDALE		SHALY LIMESTONE	2.3	688.7
-310.8	CARBONDALE		CALCAREOUS SHALE	27.0	691.0
-337.8	CARBONDALE		SANDY SHALE	52.0	718.0
-389.8	CARBONDALE		BLACK SHALE	2.0	770.0
-391.8	CARBONDALE	HOUCHIN CREEK	COAL	3.0	772.0
-394.8	CARBONDALE		UNDERCLAY	1.0	775.0
-395.8	CARBONDALE		DARK SHALE	11.0	776.0
-406.8	CARBONDALE		BLACK SHALE	1.0	787.0
-407.8	CARBONDALE		COAL	2.0	788.0
-409.8	CARBONDALE		UNDERCLAY	2.0	790.0
-411.8	CARBONDALE		GRAY SHALE	2.0	792.0
-413.8	CARBONDALE		COAL	1.0	794.0
-414.8	CARBONDALE		UNDERCLAY	1.0	795.0
-415.8	CARBONDALE		LIMESTONE	4.0	796.0

MAPID: 18590176000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 13W **SECTION:** 34 **QUARTERS/FOOTAGES:** SW SE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.844024 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.291576 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 68.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX T2-268 **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.0	PLEISTOCENE		SANDY CLAY	10.0	0.0	
376.0	PLEISTOCENE		SAND	14.0	10.0	
362.0	PLEISTOCENE			5.0	24.0	PEA
357.0	PLEISTOCENE			21.0	29.0	
336.0	PLEISTOCENE		SAND & GRAVEL	16.0	50.0	
320.0	MATTOON		SANDSTONE	2.0	66.0	WHITE

MAPID: 18590177000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 432' S line, 358' E line of SW SE
 QUADRANGLE: KEENSBURG LONGITUDE: -87.843027 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 38.29093 DATE COLLECTED: 12 / 3 / 1980
 SURFACE ELEVATION (FT.): 385.7 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AMAX OVB1 WELL TYPE: Coal Test
 COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
385.7	PLEISTOCENE		SANDY CLAY	16.0	0.0
369.7	PLEISTOCENE			54.5	16.0
315.2	MATTOON		DARK SHALE	0.9	70.5
314.3	MATTOON		SANDSTONE/SHALE	4.6	71.4
309.7	MATTOON		SANDSTONE	18.8	76.0
290.9	BOND		GRAY SHALE	1.2	94.8
289.7	BOND		LIMESTONE	5.1	96.0
284.6	BOND		BLACK SHALE	1.2	101.1
283.4	BOND		DARK SHALE	0.4	102.3
283.0	BOND		COAL	0.2	102.7
282.8	BOND		UNDERCLAY	0.6	102.9
282.2	BOND		SANDY SHALE	4.5	103.5

MAPID: 18590178000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 420' S line, 432' W line of SE SE
 QUADRANGLE: KEENSBURG LONGITUDE: -87.840275 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 38.290846 DATE COLLECTED: 12 / 4 / 1980
 SURFACE ELEVATION (FT.): 385.5 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AMAX OVB2 WELL TYPE: Coal Test
 COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
385.5	PLEISTOCENE		SANDY CLAY	5.0	0.0
380.5	PLEISTOCENE		SAND	11.0	5.0
369.5	PLEISTOCENE			54.5	16.0
315.0	MATTOON		SANDSTONE	23.8	70.5
291.2	BOND		DARK SHALE	0.4	94.3
290.8	BOND		GRAY SHALE	1.4	94.7 SOFT
289.4	BOND		LIMESTONE	4.6	96.1
284.8	BOND		CALCAREOUS SHALE	0.3	100.7
284.5	BOND		BLACK SHALE	1.4	101.0
283.1	BOND		DARK SHALE	1.0	102.4
282.1	BOND		COAL	0.2	103.4
281.9	BOND		UNDERCLAY	0.7	103.6
281.2	BOND		GRAY SHALE	0.5	104.3
280.7	BOND		SANDY SHALE	3.2	104.8

MAPID: 18590179000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 334' S line, 519' W line of SE SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.839983 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.290604 DATE COLLECTED: 12 / 9 / 1980
SURFACE ELEVATION (FT.): 386.3 LOGGED (FT.): 109.0 LOG TYPE: Drillers Log
SOURCE: AMAX OVB3 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
386.3	PLEISTOCENE		SANDY CLAY	5.0	0.0
381.3	PLEISTOCENE		SAND	14.0	5.0
367.3	PLEISTOCENE		SAND & GRAVEL	49.0	19.0
318.3	MATTOON		SANDSTONE	25.1	68.0
293.2	BOND		COAL	0.1	93.1
293.1	BOND		SANDSTONE	0.2	93.2
292.9	BOND		DARK SHALE	2.0	93.4
290.9	BOND		LIMESTONE	5.0	95.4
285.9	BOND		BLACK SHALE	1.7	100.4
284.2	BOND		DARK SHALE	0.6	102.1
283.6	BOND		COAL	0.2	102.7
283.4	BOND		UNDERCLAY	0.1	102.9
283.3	BOND		GRAY SHALE	0.9	103.0
282.4	BOND		SANDY SHALE	5.1	103.9

MAPID: 18590180000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 34 QUARTERS/FOOTAGES: 336' S line, 449' E line of SW SE
QUADRANGLE: KEENSBURG LONGITUDE: -87.843355 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 38.290672 DATE COLLECTED: 12 / 2 / 1980
SURFACE ELEVATION (FT.): 386.4 LOGGED (FT.): 109.0 LOG TYPE: Drillers Log
SOURCE: AMAX OVB4 WELL TYPE: Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
386.4	PLEISTOCENE		SANDY CLAY	17.0	0.0
369.4	PLEISTOCENE			54.0	17.0
315.4	MATTOON		GRAY SANDSTONE	24.6	71.0
290.8	BOND		SANDY SHALE	1.9	95.6
288.9	BOND		LIMESTONE	4.7	97.5
284.2	BOND		BLACK SHALE	2.7	102.2
281.5	BOND		COAL	0.3	104.9
281.2	BOND		SANDY SHALE	3.8	105.2

MAPID: 18504858000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 13W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW

QUADRANGLE: KEENSBURG LONGITUDE: -87.835728 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.297752 DATE COLLECTED:

SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2431.0 LOG TYPE: Electric Log

SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-165.0	CARBONDALE	HERRIN	COAL	3.0	558.0
-220.0	CARBONDALE	BRIAR HILL	COAL	-	613.0
-294.0	CARBONDALE	SPRINGFIELD	COAL	5.0	687.0
-405.0	CARBONDALE	HOUCHIN CREEK	COAL	-	798.0

MAPID: 18502657000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 1 QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: GRAYVILLE LONGITUDE: -87.918445 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.365482 DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2921.0 LOG TYPE: Electric Log

SOURCE: KUZMICH, R. W. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-274.0	CARBONDALE	HERRIN	COAL	2.0	678.0
-313.0	CARBONDALE	BRIAR HILL	COAL	-	717.0
-486.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0

MAPID: 18525983000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 1 QUARTERS/FOOTAGES: 1209' S line, 244' E line of NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.918104 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.375186 DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.8 LOGGED (FT.): 889.0 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. BB-8 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.8			NO RECORD	735.0	0.0	
-314.2			CLAYSTONE	1.0	735.0	BRN GRAY
-315.2			CLAYSTONE	1.0	736.0	GRAY
-316.2			CLAYSTONE	0.8	737.0	GRAY
-317.0			CLAYSTONE	1.2	737.8	& SILTSTONE
-318.2			SILTSTONE	2.3	739.0	& SILTY CLAYSTONE
-320.5			SILTSTONE	1.7	741.3	& SHALE INTERLAMINATED
-322.2			GRAY SHALE	2.5	743.0	
-324.7			GRAY SHALE	3.5	745.5	
-328.2			GRAY SHALE	0.5	749.0	
-328.7			LIMESTONE	0.2	749.5	GRAY
-328.9			CLAYSTONE	0.2	749.7	LT GRAY
-329.1			LIMESTONE	1.1	749.9	LT GRAY
-330.2			LIMESTONE	0.1	751.0	
-330.3			SHALE	0.4	751.1	DK GRAY
-330.7			SHALE	0.5	751.5	GRY BLK
-331.2			LIMESTONE	0.5	752.0	GRAY
-331.7			BLACK SHALE	0.5	752.5	GAP IN CORE - #6 COAL REMOVED
-428.2			SHALE	6.0	849.0	MED GRAY
-434.2			SHALE	6.0	855.0	
-440.2			SHALE	5.3	861.0	
-445.5			SHALE	0.6	866.3	MED GRAY
-446.1			SHALE	0.1	866.9	DK GRAY
-446.2			SHALE	1.0	867.0	& SILTSTONE INTERLAMINATED
-447.2			SHALE	4.0	868.0	MED GRAY
-451.2			SHALE	1.0	872.0	MED GRAY
-452.2			SHALE	4.5	873.0	& SILTSTONE INTERLAMINATED
-456.7			SHALE	0.3	877.5	MED GRAY
-457.0			SHALY COAL	0.1	877.8	
-457.0			SHALE	0.3	877.8	& STSTONE INTERBD (COAL #5 REMOVED-GAP)
-466.2			CLAYSTONE	2.0	887.0	GRAY

MAPID: 18527518000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 1 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.924252

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.370101

DATE COLLECTED: 8 / 9 / 1985

SURFACE ELEVATION (FT.): LOGGED (FT.): 225.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	17.0	0.0	
-			CLAY	18.0	17.0	
-			GRAY SHALE	5.0	35.0	
-			COAL	3.0	40.0	THICKNESS IS PROBABLY NOT ACCURATE
-			DARK SHALE	5.0	43.0	
-			LIMESTONE	2.0	48.0	
-			DARK SHALE	6.0	50.0	
-			COAL	11.0	56.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	2.0	67.0	
-			SANDSTONE	13.0	69.0	
-			LIMESTONE	8.0	82.0	
-			SANDSTONE	18.0	90.0	
-			COAL	2.0	108.0	THICKNESS IS PROBABLY NOT ACCURATE
-			DARK SHALE	25.0	110.0	
-			GRAY SHALE	20.0	135.0	
-			DARK SHALE	19.0	155.0	
-			LIMESTONE	3.0	174.0	
-			GRAY SHALE	18.0	177.0	
-			SANDSTONE	30.0	195.0	

MAPID: 18500398000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.94176

GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.365772

DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2594.0

LOG TYPE: Electric Log

SOURCE: MAGNOLIA PETROLEUM

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-359.0	CARBONDALE	HERRIN	COAL	4.0	763.0	
-412.0	CARBONDALE	BRIAR HILL	COAL	-	816.0	
-464.0	CARBONDALE	SPRINGFIELD	COAL	6.0	868.0	
-562.0	CARBONDALE	HOUCHIN CREEK	COAL	-	966.0	

MAPID: 18525988000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 2 QUARTERS/FOOTAGES: 718' S line, 54' W line of NW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.954454 GEOLOGIST: HOKE
CONFIDENTIAL: N LATITUDE: 38.370402 DATE COLLECTED:
SURFACE ELEVATION (FT.): 398.3 LOGGED (FT.): 934.0 LOG TYPE: Survey Core Study
SOURCE: AMAX C. C. BB-25 WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
398.3			NO RECORD	804.0	0.0	
-405.7			LIMESTONE	1.4	804.0	GRAY
-407.1			SHALE	0.6	805.4	GRAY BLK
-407.7			LIMESTONE	4.0	806.0	GAP IN CORE; GRAY
-505.7			GRAY SHALE	6.0	904.0	
-511.7			SHALE	6.0	910.0	MED GRAY
-517.7			SHALE	6.0	916.0	
-523.7			SHALE	2.0	922.0	GAP IN CORE; MED GRAY
-533.7			CLAYSTONE	2.0	932.0	DK GRAY

MAPID: 18501398000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 3 QUARTERS/FOOTAGES: 132' N line, 501' W line
QUADRANGLE: BONE GAP LONGITUDE: -87.971541 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.37895 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 2998.0 LOG TYPE: Electric Log
SOURCE: KIDD, BARRON, ETAL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-415.0	CARBONDALE	HERRIN	COAL	3.0	818.0	
-485.0	CARBONDALE	BRIAR HILL	COAL	-	888.0	
-537.0	CARBONDALE	SPRINGFIELD	COAL	7.0	940.0	
-607.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1010.0	

MAPID: 18527493000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 3 QUARTERS/FOOTAGES: SE SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.966539 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.366665 DATE COLLECTED: 4 / 24 / 1981

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

SOURCE: WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	20.0	0.0	
-			GRAY SHALE	9.0	20.0	
-			COAL	1.0	29.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	10.0	30.0	
-			COAL	1.0	40.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	1.0	41.0	
-			GRAY SHALE	8.0	42.0	
-			LIMESTONE	3.0	50.0	
-			DARK SHALE	24.0	53.0	
-			COAL	6.0	77.0	THICKNESS IS PROBABLY NOT ACCURATE
-			GRAY SHALE	23.0	83.0	
-			DARK SHALE	45.0	106.0	
-			GRAY SHALE	36.0	151.0	
-			SANDSTONE	38.0	187.0	

MAPID: 18501403000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 4 QUARTERS/FOOTAGES: 826' N line, 330' E line

QUADRANGLE: BONE GAP LONGITUDE: -87.974514 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.377039 DATE COLLECTED:

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 3031.0 LOG TYPE: Electric Log

SOURCE: CHERRY A W ETAL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-414.0	CARBONDALE	HERRIN	COAL	3.0	814.0	
-482.0	CARBONDALE	BRIAR HILL	COAL	-	882.0	
-548.0	CARBONDALE	SPRINGFIELD	COAL	9.0	948.0	
-597.0	CARBONDALE	HOUCHIN CREEK	COAL	-	997.0	

MAPID: 18502567000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 2S 14W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.962933 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.358372 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 1937.0 **LOG TYPE:** Electric Log
SOURCE: HIGGINS C S **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-413.0	CARBONDALE	HERRIN	COAL	3.0	815.0	
-478.0	CARBONDALE	BRIAR HILL	COAL	-	880.0	
-531.0	CARBONDALE	SPRINGFIELD	COAL	9.0	933.0	
-601.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1003.0	

MAPID: 18526041000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 2S 14W **SECTION:** 10 **QUARTERS/FOOTAGES:** 63' N line, 663' W line
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.971382 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.364705 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.4 **LOGGED (FT.):** 1142.0 **LOG TYPE:** Survey Core Study
SOURCE: AMAX C. C. 53 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
399.4			NO RECORD	795.0	0.0	
-395.6	CARBONDALE	BRERETON	LIMESTONE	3.5	795.0	
-399.1	CARBONDALE	ANNA	BLACK SHALE	1.8	798.5	GAP IN CORE
-405.6			CLAYSTONE	1.3	805.0	MED GRAY
-406.9			LIMESTONE	0.7	806.3	GAP IN CORE
-522.6			SHALE	1.1	922.0	& COAL
-523.7			CLAYSTONE	0.5	923.1	GAP IN CORE; MED GRAY
-725.6			SHALE	7.7	1125.0	GAP IN CORE; MED GRAY
-739.6			SILTSTONE	2.0	1139.0	
-741.6			LIMESTONE	1.0	1141.0	

MAPID: 18527494000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 10 QUARTERS/FOOTAGES: SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96163 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.351915 DATE COLLECTED: 10 / 3 / 1980
SURFACE ELEVATION (FT.): LOGGED (FT.): 320.0 LOG TYPE: Drillers Log
SOURCE: WELL TYPE: Water Well
COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			CLAY	20.0	0.0	
-			SAND	20.0	20.0	SD AND MUD
-			SAND	40.0	40.0	LOG SAYS 'QUICK SAND'
-			GRAY SHALE	20.0	80.0	
-			SANDSTONE	40.0	100.0	
-			GRAY SHALE	27.0	140.0	
-			COAL	2.0	167.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	3.0	169.0	
-			GRAY SHALE	23.0	172.0	
-			SANDY SHALE	25.0	195.0	
-			GRAY SHALE	60.0	220.0	
-			SANDSTONE	40.0	280.0	

MAPID: 18500402000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.941836 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.350829 DATE COLLECTED:
SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 2591.0 LOG TYPE: Electric Log
SOURCE: MAGNOLIA PETROLEUM WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-339.0	CARBONDALE	HERRIN	COAL	4.0	746.0	
-390.0	CARBONDALE	BRIAR HILL	COAL	-	797.0	
-455.0	CARBONDALE	SPRINGFIELD	COAL	4.0	862.0	
-553.0	CARBONDALE	HOUCHIN CREEK	COAL	-	960.0	

MAPID: 18500064000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 12 QUARTERS/FOOTAGES: 1400' S line, 200' E line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.917856 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.353703 DATE COLLECTED: 7 / 0 / 1940
SURFACE ELEVATION (FT.): 434.3 LOGGED (FT.): 127.0 LOG TYPE: Drillers Log
SOURCE: POTTS & SONS WELL TYPE: Water Well
COMMENT: NO HOLE NUMBER

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.3			CLAY	15.0	0.0	
419.3			UNCONSOLIDATED	12.0	15.0	
407.3			SAND	3.0	27.0	
404.3	MATTOON		SANDSTONE	34.0	30.0	
370.3	MATTOON	FRIENDSVILLE	COAL	1.0	64.0	THICKNESS IS PROBABLY NOT ACCURATE
369.3	BOND		GRAY SHALE	19.0	65.0	
350.3	BOND		LIMESTONE	1.0	84.0	
349.3	BOND		SANDSTONE	23.0	85.0	
326.3	BOND		SANDSTONE	19.0	108.0	

MAPID: 18502106000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 12 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.918365 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.358117 DATE COLLECTED:
SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 2925.0 LOG TYPE: Electric Log
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-273.0	CARBONDALE	HERRIN	COAL	4.0	684.0	
-323.0	CARBONDALE	BRIAR HILL	COAL	-	734.0	
-387.0	CARBONDALE	SPRINGFIELD	COAL	3.0	798.0	
-499.0	CARBONDALE	HOUCHIN CREEK	COAL	-	910.0	

MAPID: 18526044000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 12 QUARTERS/FOOTAGES: 56' S line, 93' W line

QUADRANGLE: GRAYVILLE LONGITUDE: -87.935732 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.350021 DATE COLLECTED:

SURFACE ELEVATION (FT.): 403.8 LOGGED (FT.): 1092.7 LOG TYPE: Survey Core Study

SOURCE: AMAX C. C. BB-53 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
403.8			NO RECORD	717.0	0.0	
-313.2			SHALE	4.4	717.0	MED GRAY
-317.6			LIMESTONE	1.6	721.4	LT GRAY
-319.2			LIMESTONE	2.0	723.0	
-321.2			SHALE	0.3	725.0	GRNSH
-321.5			BLACK SHALE	0.7	725.3	GAP IN CORE - COAL #6 REMOVED
-325.2			CLAYSTONE	3.0	729.0	GAP IN CORE
-442.2			SHALE	6.0	846.0	MED GRAY
-448.2			SHALE	3.0	852.0	GAP IN CORE
-601.2			SHALE	2.2	1005.0	
-603.4			COAL	0.8	1007.2	LOG HAS THICKNESS AS .60
-604.2			GRAY SHALE	1.6	1008.0	
-605.8			GRAY SHALE	1.4	1009.6	
-607.2			SILTY SHALE	6.0	1011.0	
-613.2			SILTSTONE	6.0	1017.0	
-619.2			SILTSTONE	1.2	1023.0	LOG HAS 1.7' STSTONE, 1.5' SH
-620.4			SHALE	1.0	1024.2	BRN GRAY
-621.4			SHALE	4.8	1025.2	MED GRAY
-626.2			SHALE	6.0	1030.0	MED GRAY
-632.2			SHALE	6.0	1036.0	
-638.2			SHALE	6.0	1042.0	OR SILTSTONE
-644.2			SHALE	0.9	1048.0	DK GRAY
-645.1			SILTSTONE	2.0	1048.9	LT GRAY
-647.1			SILTSTONE	3.1	1050.9	LT GRAY
-650.2			SILTSTONE	6.0	1054.0	OR SANDSTONE
-656.2			SILTSTONE	2.0	1060.0	
-658.2			SANDSTONE	6.0	1062.0	LT GRAY
-664.2			SANDSTONE	6.0	1068.0	
-670.2			SANDSTONE	3.7	1074.0	GAP - INDIANA III COAL REMOVED
-679.2			CLAYSTONE	0.9	1083.0	GAP IN CORE
-682.2			UNDERCLAY	0.7	1086.0	MED GRAY
-682.9			COAL	0.3	1086.7	
-683.2			SHALE	1.6	1087.0	DK GRAY
-684.8			SHALE	4.1	1088.6	MED GRAY

MAPID: 18502294000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 13 QUARTERS/FOOTAGES: 990' S line, 330' E line
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.91853 GEOLOGIST: HOPKINS
 CONFIDENTIAL: N LATITUDE: 38.337802 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 2917.0 LOG TYPE: Electric Log
 SOURCE: BAYLOR, H. CARROLL WELL TYPE: Producer-Oil
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-295.0	CARBONDALE	HERRIN	COAL	3.0	707.0	
-378.0	CARBONDALE	BRIAR HILL	COAL	-	790.0	
-441.0	CARBONDALE	SPRINGFIELD	COAL	11.0	853.0	
-526.0	CARBONDALE	HOUCHIN CREEK	COAL	-	938.0	

MAPID: 18505685000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 13 QUARTERS/FOOTAGES: 1800' S line, 128' E line of SE
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.91778 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.340031 DATE COLLECTED: 6 / 28 / 1976
 SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 233.0 LOG TYPE: Drillers Log
 SOURCE: DAVID A. SPETH WELL TYPE: Coal Test
 COMMENT: NO HOLE NUMBER GIVEN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
423.0			UNCONSOLIDATED	27.0	0.0	SOIL AND CLAY
396.0	MATTOON		GRAY SHALE	25.0	27.0	
371.0	MATTOON	FRIENDSVILLE	COAL	1.0	52.0	THICKNESS IS PROBABLY NOT ACCURATE
370.0			LIMESTONE	1.0	53.0	
369.0			GRAY SHALE	32.0	54.0	
337.0			SANDSTONE	9.0	86.0	
328.0			LIMESTONE	5.0	95.0	
323.0			SANDSTONE	14.0	100.0	
309.0			DARK SHALE	36.0	114.0	
273.0			COAL	1.0	150.0	THICKNESS IS PROBABLY NOT ACCURATE
272.0			GRAY SHALE	6.0	151.0	
266.0			LIMESTONE	1.0	157.0	
265.0			DARK SHALE	29.0	158.0	
236.0			GRAY SHALE	9.0	187.0	
227.0			SANDSTONE	37.0	196.0	

MAPID: 18501084000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 14

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.941951

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.337983

DATE COLLECTED:

SURFACE ELEVATION (FT.): 404.0

LOGGED (FT.): 3010.0

LOG TYPE: Electric Log

SOURCE: LAMBERT BURR

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-326.0	CARBONDALE	HERRIN	COAL	5.0	730.0	
-378.0	CARBONDALE	BRIAR HILL	COAL	-	782.0	
-446.0	CARBONDALE	SPRINGFIELD	COAL	8.0	850.0	
-534.0	CARBONDALE	HOUCHIN CREEK	COAL	-	938.0	

MAPID: 18505323000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 14

QUARTERS/FOOTAGES: SW NE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.943052

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.344415

DATE COLLECTED: 6 / 21 / 1957

SURFACE ELEVATION (FT.): 401.0

LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

23FR

WELL TYPE: Coal Test

COMMENT: LOCATION MAY BE NE CORNER OF NW

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.0			UNCONSOLIDATED	80.0	0.0	

MAPID: 18527602000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 14

QUARTERS/FOOTAGES: SW SW

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.952445

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.337103

DATE COLLECTED: 11 / 6 / 1986

SURFACE ELEVATION (FT.):

LOGGED (FT.): 270.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	15.0	0.0	
-			SAND	5.0	15.0	LOG SAYS 'QUICK SAND'
-			CLAY	38.0	20.0	GRAY MUD
-	MATTOON		SANDSTONE	12.0	58.0	
-	MATTOON		GRAY SHALE	24.0	70.0	
-	MATTOON	FRIENDSVILLE	COAL	2.0	94.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	2.0	96.0	
-	BOND		GRAY SHALE	17.0	98.0	
-	BOND		SANDSTONE	35.0	115.0	
-	BOND		SANDSTONE	37.0	150.0	
-	BOND	WITT	COAL	2.0	187.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		LIMESTONE	1.0	189.0	
-	BOND		GRAY SHALE	35.0	190.0	
-	BOND	FLANNIGAN	COAL	3.0	225.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND		SANDY SHALE	12.0	228.0	
-	BOND	MT. CARMEL	SANDSTONE	30.0	240.0	

MAPID: 18590033000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 14 QUARTERS/FOOTAGES: NE SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.947351

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.34035

DATE COLLECTED: 8 / 23 / 1994

SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 923.8

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. T2-549

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
397.0	PLEISTOCENE		CLAY	6.0	0.0	
391.0	PLEISTOCENE		UNCONSOLIDATED	112.0	6.0	
279.0	PLEISTOCENE		SAND	3.5	118.0	
275.5	BOND		SANDSTONE	18.5	121.5	
257.0	BOND		SANDY SHALE	28.0	140.0	
229.0	BOND	FLANNIGAN	COAL	2.0	168.0	
227.0	BOND		SANDY SHALE	5.0	170.0	
222.0	BOND		LIMESTONE	1.0	175.0	
221.0	BOND		SANDY SHALE	54.0	176.0	
167.0	BOND	MT. CARMEL	SANDSTONE	93.0	230.0	
74.0	MODESTO		SANDY SHALE	6.0	323.0	
68.0	MODESTO		SANDSTONE	21.0	329.0	
47.0	MODESTO		SANDY SHALE	12.0	350.0	
35.0	MODESTO	CHAPEL	COAL	1.0	362.0	APPROXIMATE THICKNESS
34.0	MODESTO		SANDY SHALE	149.0	363.0	
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	512.0	BROWN
-125.0	MODESTO	WEST FRANKLIN	GREEN SHALE	4.0	522.0	
-129.0	MODESTO	WEST FRANKLIN	LIMESTONE	1.0	526.0	BROWN
-130.0	MODESTO		SANDY SHALE	13.0	527.0	
-143.0	MODESTO		SANDSTONE	20.0	540.0	
-163.0	MODESTO	FARMINGTON	SANDY SHALE	167.0	560.0	
-330.0	CARBONDALE	DANVILLE	COAL	2.5	727.0	APPROXIMATE THICKNESS
-332.5	CARBONDALE		UNDERCLAY	1.5	729.5	
-334.0	CARBONDALE		SANDY SHALE	4.0	731.0	
-338.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	735.0	GRAY
-341.0	CARBONDALE		SANDY SHALE	18.0	738.0	
-359.0	CARBONDALE	BRERETON	LIMESTONE	2.0	756.0	GRAY
-361.0	CARBONDALE	ANNA	BLACK SHALE	1.0	758.0	
-362.0	CARBONDALE	HERRIN	COAL	3.5	759.0	APPROXIMATE THICKNESS
-365.5	CARBONDALE		UNDERCLAY	1.5	762.5	
-367.0	CARBONDALE		SANDY SHALE	3.0	764.0	
-370.0	CARBONDALE		SANDSTONE	33.0	767.0	
-403.0	CARBONDALE	DYKERSBURG	SANDY SHALE	88.2	800.0	
-491.2	CARBONDALE	SPRINGFIELD	COAL	7.9	888.2	
-499.1	CARBONDALE		UNDERCLAY	1.5	896.1	
-500.6	CARBONDALE		SILTY SHALE	18.7	897.6	
-519.3	CARBONDALE		SANDSTONE	7.5	916.3	

MAPID: 18590037000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 14 QUARTERS/FOOTAGES: 625' S line, 1275' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.949785

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.336929

DATE COLLECTED: 8 / 16 / 1990

SURFACE ELEVATION (FT.): 402.3 LOGGED (FT.): 935.5

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-452

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
402.3	PLEISTOCENE		CLAY	9.0	0.0	
393.3	PLEISTOCENE		UNCONSOLIDATED	105.0	9.0	
288.3	PLEISTOCENE		GRAVEL	3.0	114.0	
285.3	BOND		SANDSTONE	43.0	117.0	
242.3	BOND		GREEN SHALE	23.0	160.0	
219.3	BOND		LIMESTONE	2.0	183.0	BROWN
217.3	BOND		SANDY SHALE	32.5	185.0	
184.8	BOND		LIMESTONE	0.5	217.5	BROWN
184.3	BOND		SANDY SHALE	35.0	218.0	
149.3	BOND	MT. CARMEL	SANDSTONE	106.0	253.0	
43.3	MODESTO	CHAPEL	COAL	1.0	359.0	
42.3	MODESTO		SANDY SHALE	70.0	360.0	
-27.7	MODESTO		CALCAREOUS SHALE	10.0	430.0	
-37.7	MODESTO		SANDY SHALE	79.0	440.0	
-116.7	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	519.0	BROWN
-128.7	MODESTO	WEST FRANKLIN	GREEN SHALE	3.0	531.0	
-131.7	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	534.0	BROWN
-133.7	MODESTO		GREEN SHALE	4.0	536.0	
-137.7	MODESTO		SANDSTONE	10.0	540.0	
-147.7	MODESTO	FARMINGTON	SANDY SHALE	103.0	550.0	
-250.7	MODESTO		LIMESTONE	1.0	653.0	BROWN
-251.7	MODESTO	FARMINGTON	SANDY SHALE	77.0	654.0	
-328.7	CARBONDALE	DANVILLE	COAL	3.2	731.0	
-331.9	CARBONDALE		UNDERCLAY	0.8	734.2	
-332.7	CARBONDALE		GREEN SHALE	7.5	735.0	
-340.2	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	742.5	BROWN
-342.7	CARBONDALE		SANDSTONE	15.0	745.0	
-357.7	CARBONDALE		GREEN SHALE	3.0	760.0	
-360.7	CARBONDALE	BRERETON	LIMESTONE	4.0	763.0	GRAY
-364.7	CARBONDALE	ANNA	BLACK SHALE	1.0	767.0	
-365.7	CARBONDALE	HERRIN	COAL	4.0	768.0	APPROXIMATE THICKNESS
-369.7	CARBONDALE		UNDERCLAY	1.5	772.0	
-371.2	CARBONDALE		SANDY SHALE	0.5	773.5	
-371.7	CARBONDALE		SANDSTONE	6.0	774.0	
-377.7	CARBONDALE	DYKERSBURG	SANDY SHALE	65.0	780.0	
-442.7	CARBONDALE	DYKERSBURG	SILTY SHALE	55.1	845.0	
-497.8	CARBONDALE	SPRINGFIELD	COAL	7.5	900.1	
-505.3	CARBONDALE		CLAYSTONE	0.8	907.6	
-506.1	CARBONDALE		SILTSTONE	17.0	908.4	

-523.2 CARBONDALE

SANDSTONE

10.1 925.5

MAPID: 18501086000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.955871 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.321462 DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 2834.0 LOG TYPE:

SOURCE: ASHLAND OIL&REF. CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-109.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	505.0
-354.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	750.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1629.0			LIMESTONE	-	2025.0
-2158.0		BASE BARLOW	LIMESTONE	-	2554.0
-2438.0	RENAULT	BASE RENAULT	LIMESTONE	-	2834.0

MAPID: 18501086000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.955871 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.321462 DATE COLLECTED:

SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 2942.0 LOG TYPE: Electric Log

SOURCE: ASHLAND OIL&REF. CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-358.0	CARBONDALE	HERRIN	COAL	3.0	754.0
-400.0	CARBONDALE	BRIAR HILL	COAL	-	796.0
-484.0	CARBONDALE	SPRINGFIELD	COAL	9.0	880.0
-566.0	CARBONDALE	HOUCHIN CREEK	COAL	-	962.0

MAPID: 18500280000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.953484 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.330738 DATE COLLECTED:
SURFACE ELEVATION (FT.): 403.0 LOGGED (FT.): 2863.0 LOG TYPE:
SOURCE: DUNCAN, N. V., EST. OF WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	517.0
-356.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	759.0
-1503.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1906.0
-1687.0			LIMESTONE	-	2090.0
-2178.0		BASE BARLOW	LIMESTONE	-	2581.0
-2460.0	RENAULT	BASE RENAULT	LIMESTONE	-	2863.0

MAPID: 18501085000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 990' W line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.951245 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.321425 DATE COLLECTED:
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 2826.0 LOG TYPE:
SOURCE: DUNCAN & ASHLAND OIL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-91.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	490.0
-337.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	736.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1647.0			LIMESTONE	-	2046.0
-2181.0		BASE BARLOW	LIMESTONE	-	2580.0
-2427.0	RENAULT	BASE RENAULT	LIMESTONE	-	2826.0

MAPID: 18502110000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 23

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.93725

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.324994

DATE COLLECTED:

SURFACE ELEVATION (FT.): 400.0

LOGGED (FT.): 2808.0

LOG TYPE:

SOURCE: FULK, PERRY

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-70.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	470.0
-310.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	710.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1632.0			LIMESTONE	-	2032.0
-2161.0		BASE BARLOW	LIMESTONE	-	2561.0
-2408.0	RENAULT	BASE RENAULT	LIMESTONE	-	2808.0

MAPID: 18502630000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 23

QUARTERS/FOOTAGES: 330' S line, 400' E line

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.937471

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.321292

DATE COLLECTED:

SURFACE ELEVATION (FT.): 398.0

LOGGED (FT.): 2614.0

LOG TYPE: Electric Log

SOURCE: KUZMICH, R. W.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-315.0	CARBONDALE	HERRIN	COAL	3.0	713.0
-368.0	CARBONDALE	BRIAR HILL	COAL	-	766.0
-433.0	CARBONDALE	SPRINGFIELD	COAL	7.0	831.0
-532.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0

MAPID: 18504873000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.944234 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.321358 DATE COLLECTED:
SURFACE ELEVATION (FT.): 401.0 LOGGED (FT.): 2820.0 LOG TYPE:
SOURCE: BREHM, C. E. DRLG.&PROD. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-74.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	475.0
-324.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	725.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1599.0			LIMESTONE	-	2000.0
-2205.0		BASE BARLOW	LIMESTONE	-	2606.0
-2419.0	RENAULT	BASE RENAULT	LIMESTONE	-	2820.0

MAPID: 18504874000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 300' N line, 330' E line of SE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.946546 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.323347 DATE COLLECTED:
SURFACE ELEVATION (FT.): 390.0 LOGGED (FT.): 2824.0 LOG TYPE:
SOURCE: CALVERT DRILLING, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-80.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	470.0
-330.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	720.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1635.0			LIMESTONE	-	2025.0
-2202.0		BASE BARLOW	LIMESTONE	-	2592.0
-2434.0	RENAULT	BASE RENAULT	LIMESTONE	-	2824.0

MAPID: 18504875000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.946543 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.328792 DATE COLLECTED:
SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 2826.0 LOG TYPE:
SOURCE: MIAMI OPERATING CO WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-107.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	504.0
-355.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	752.0
-1585.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1982.0
-1664.0			LIMESTONE	-	2061.0
-2201.0		BASE BARLOW	LIMESTONE	-	2598.0
-2429.0	RENAULT	BASE RENAULT	LIMESTONE	-	2826.0

MAPID: 18505418000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.939602 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.330609 DATE COLLECTED:
SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 2822.0 LOG TYPE:
SOURCE: RING OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-84.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	482.0
-322.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	720.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1652.0			LIMESTONE	-	2050.0
-2223.0		BASE BARLOW	LIMESTONE	-	2621.0
-2424.0	RENAULT	BASE RENAULT	LIMESTONE	-	2822.0

MAPID: 18590035000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 200' N line, 150' W line of SE SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.949427

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.323485

DATE COLLECTED: 6 / 3 / 1991

SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 890.2

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T-2-476

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
395.0	PLEISTOCENE		CLAY	12.0	0.0	
383.0	PLEISTOCENE		SAND	8.0	12.0	
375.0	PLEISTOCENE		UNCONSOLIDATED	67.0	20.0	
308.0	BOND		SANDY SHALE	24.0	87.0	
284.0	BOND		SANDSTONE	14.0	111.0	
270.0	BOND		SANDY SHALE	66.0	125.0	
204.0	BOND		BLACK SHALE	3.0	191.0	
201.0	BOND		SANDY SHALE	47.0	194.0	
154.0	BOND		SANDSTONE	29.0	241.0	
125.0	BOND		SANDY SHALE	20.0	270.0	
105.0	BOND	MT. CARMEL	SANDSTONE	58.0	290.0	
47.0	MODESTO		SANDY SHALE	50.0	348.0	
-3.0	MODESTO		BLACK SHALE	3.0	398.0	
-6.0	MODESTO		SANDY SHALE	80.0	401.0	
-86.0	MODESTO	CHAPEL	COAL	2.0	481.0	APPROXIMATE THICKNESS
-88.0	MODESTO		UNDERCLAY	1.0	483.0	
-89.0	MODESTO		GREEN SHALE	2.0	484.0	
-91.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	486.0	
-112.0	MODESTO	FARMINGTON	SANDY SHALE	191.0	507.0	
-303.0	CARBONDALE	DANVILLE	COAL	3.0	698.0	APPROXIMATE THICKNESS
-306.0	CARBONDALE		UNDERCLAY	2.0	701.0	
-308.0	CARBONDALE		SANDY SHALE	14.0	703.0	
-322.0	CARBONDALE	BANKSTON FORK	LIMESTONE	8.0	717.0	
-330.0	CARBONDALE		GREEN SHALE	10.0	725.0	
-340.0	CARBONDALE	HERRIN	COAL	3.0	735.0	APPROXIMATE THICKNESS
-343.0	CARBONDALE		UNDERCLAY	2.0	738.0	
-345.0	CARBONDALE	DYKERSBURG	SANDY SHALE	118.0	740.0	
-463.0	CARBONDALE	SPRINGFIELD	COAL	6.2	858.0	
-469.2	CARBONDALE		SANDSTONE	3.1	864.2	
-472.3	CARBONDALE		GREEN SHALE	1.9	867.3	
-474.2	CARBONDALE		GRAY SHALE	1.0	869.2	
-475.2	CARBONDALE		SANDY SHALE	10.0	870.2	
-485.2	CARBONDALE		SANDSTONE	10.0	880.2	

MAPID: 18590036000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 23 QUARTERS/FOOTAGES: 20' N line, 20' W line of SE NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.949806

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.331092

DATE COLLECTED: 5 / 31 / 1991

SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 920.5

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-475

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
402.0	PLEISTOCENE		CLAY	8.0	0.0	
394.0	PLEISTOCENE		UNCONSOLIDATED	27.0	8.0	
367.0	PLEISTOCENE		SANDSTONE	47.0	35.0	
320.0	BOND		BLACK SHALE	4.0	82.0	
316.0	BOND		SANDY SHALE	51.0	86.0	
265.0	BOND		SANDSTONE	8.0	137.0	
257.0	BOND		SANDY SHALE	35.0	145.0	
222.0	BOND		LIMESTONE	2.0	180.0	GRAY
220.0	BOND		SANDY SHALE	33.0	182.0	
187.0	BOND		BLACK SHALE	2.0	215.0	
185.0	BOND		SANDY SHALE	23.0	217.0	
162.0	BOND	MT. CARMEL	SANDSTONE	116.0	240.0	
46.0	MODESTO		SANDY SHALE	42.0	356.0	
4.0	MODESTO		BLACK SHALE	3.0	398.0	
1.0	MODESTO		GRAY SHALE	22.0	401.0	
-21.0	MODESTO	WOMAC	COAL	2.0	423.0	APPROXIMATE THICKNESS
-23.0	MODESTO		UNDERCLAY	1.0	425.0	
-24.0	MODESTO		SANDY SHALE	80.0	426.0	
-104.0	MODESTO	CHAPEL	COAL	3.0	506.0	APPROXIMATE THICKNESS
-107.0	MODESTO		UNDERCLAY	1.0	509.0	
-108.0	MODESTO		SANDY SHALE	4.0	510.0	
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	514.0	
-129.0	MODESTO	FARMINGTON	SANDY SHALE	191.0	531.0	
-320.0	CARBONDALE	DANVILLE	COAL	2.5	722.0	
-322.5	CARBONDALE		UNDERCLAY	1.5	724.5	
-324.0	CARBONDALE		SANDY SHALE	28.0	726.0	
-352.0	CARBONDALE		GREEN SHALE	6.0	754.0	
-358.0	CARBONDALE	HERRIN	COAL	3.0	760.0	APPROXIMATE THICKNESS
-361.0	CARBONDALE		UNDERCLAY	1.5	763.0	
-362.5	CARBONDALE	DYKERSBURG	SANDY SHALE	126.1	764.5	
-488.6	CARBONDALE	SPRINGFIELD	COAL	6.6	890.6	
-495.2	CARBONDALE		BLACK SHALE	0.1	897.2	
-495.3	CARBONDALE		CLAYSTONE	2.9	897.3	
-498.2	CARBONDALE		SILTY SHALE	2.8	900.2	
-501.0	CARBONDALE		GREEN SHALE	15.5	903.0	
-516.5	CARBONDALE		SANDY SHALE	2.0	918.5	

MAPID: 18504876000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 24

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.923327

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.32679

DATE COLLECTED:

SURFACE ELEVATION (FT.): 402.0

LOGGED (FT.): 2872.0

LOG TYPE: Electric Log

SOURCE: WISER OIL CO., THE

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-284.0	CARBONDALE	HERRIN	COAL	2.0	686.0	
-336.0	CARBONDALE	BRIAR HILL	COAL	-	738.0	
-395.0	CARBONDALE	SPRINGFIELD	COAL	5.0	797.0	
-500.0	CARBONDALE	HOUCHIN CREEK	COAL	-	902.0	

MAPID: 18505339000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 24

QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.927988

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 38.321248

DATE COLLECTED: 7 / 18 / 1957

SURFACE ELEVATION (FT.): 399.0

LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO

50FR

WELL TYPE: Coal Test

COMMENT: SEE COAL SECTION MAP #2-6-93L

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
399.0			UNCONSOLIDATED	65.0	0.0	

MAPID: 18590011000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 24 QUARTERS/FOOTAGES: 550' S line, 260' E line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.918552 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.321912 DATE COLLECTED: 4 / 11 / 1991

SURFACE ELEVATION (FT.): 403.9 LOGGED (FT.): 838.9 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-90011 WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
403.9	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
399.9	PLEISTOCENE		CLAY	3.0	4.0	
396.9	PLEISTOCENE		SAND & GRAVEL	11.0	7.0	
385.9	PLEISTOCENE		CLAY	14.0	18.0	
371.9	PLEISTOCENE		SAND & GRAVEL	10.0	32.0	
361.9	BOND		GREEN SHALE	59.0	42.0	UPPER GREEN
302.9	BOND		BLACK SHALE & COAL	2.0	101.0	APPROXIMATE THICKNESS
300.9	BOND		GREEN SHALE	27.0	103.0	
273.9	BOND		BLACK SHALE & COAL	1.0	130.0	APPROXIMATE THICKNESS
272.9	BOND		LIMESTONE	1.0	131.0	
271.9	BOND		GREEN SHALE	6.0	132.0	
265.9	BOND		SANDY LIMESTONE	2.0	138.0	
263.9	BOND		SHALE	3.0	140.0	
260.9	BOND	MT. CARMEL	SANDSTONE	107.0	143.0	
153.9	BOND	CARTHAGE	LIMESTONE	2.0	250.0	
151.9	MODESTO	NEW HAVEN	COAL	1.0	252.0	APPROXIMATE THICKNESS
150.9	MODESTO		GREEN SHALE	27.0	253.0	
123.9	MODESTO		SANDSTONE	6.0	280.0	
117.9	MODESTO		GREEN SHALE	3.0	286.0	
114.9	MODESTO		BLACK SHALE & COAL	2.0	289.0	
112.9	MODESTO		GRAY SHALE	7.0	291.0	
105.9	MODESTO		LIMESTONE	1.0	298.0	
104.9	MODESTO		GRAY SHALE	51.0	299.0	
53.9	MODESTO		UNDERCLAY	2.0	350.0	SOME COAL
51.9	MODESTO		GRAY SHALE	19.0	352.0	
32.9	MODESTO	TRIVOLI	SANDSTONE	9.0	371.0	
23.9	MODESTO		SANDY SHALE	58.0	380.0	
-34.1	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	438.0	
-36.1	MODESTO	WEST FRANKLIN	GREEN SHALE	1.0	440.0	
-37.1	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	441.0	
-41.1	MODESTO		GREEN SHALE	8.0	445.0	
-49.1	MODESTO		SANDSTONE	22.0	453.0	
-71.1	MODESTO		SANDY SHALE	104.0	475.0	
-175.1	MODESTO		SANDSTONE	11.0	579.0	
-186.1	MODESTO	FARMINGTON	SANDY SHALE	57.0	590.0	
-243.1	CARBONDALE	DANVILLE	COAL	3.0	647.0	APPROXIMATE THICKNESS
-246.1	CARBONDALE		GREEN SHALE	11.0	650.0	
-257.1	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	661.0	
-259.6	CARBONDALE	ANVIL ROCK	SANDSTONE	6.5	663.5	

-266.1	CARBONDALE	BRERETON	LIMESTONE	6.0	670.0	
-272.1	CARBONDALE		UNKNOWN	0.5	676.0	
-272.6	CARBONDALE	HERRIN	COAL	4.0	676.5	APPROXIMATE THICKNESS
-276.6	CARBONDALE		SHALE	9.5	680.5	
-286.1	CARBONDALE		SANDSTONE	8.0	690.0	
-294.1	CARBONDALE		GREEN SHALE	12.0	698.0	
-306.1	CARBONDALE		SANDSTONE	9.0	710.0	
-315.1	CARBONDALE		SANDY SHALE	25.0	719.0	
-340.1	CARBONDALE	BRIAR HILL	BLACK SHALE & COAL	1.0	744.0	APPROXIMATE THICKNESS
-341.1	CARBONDALE		SANDSTONE	6.0	745.0	
-347.1	CARBONDALE	DYKERSBURG	GRAY SHALE	53.2	751.0	
-400.3	CARBONDALE	SPRINGFIELD	COAL	6.4	804.2	
-406.7	CARBONDALE		CLAYSTONE	0.7	810.6	
-407.4	CARBONDALE		SANDSTONE	27.6	811.3	

MAPID: 18590012000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 24 QUARTERS/FOOTAGES: 25' S line, 25' E line of NE SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.926942

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.32415

DATE COLLECTED: 4 / 29 / 1991

SURFACE ELEVATION (FT.): 402.0 LOGGED (FT.): 839.0

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-477

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
402.0	PLEISTOCENE		SANDY CLAY	8.0	0.0	
394.0	PLEISTOCENE		SAND	42.0	8.0	
352.0	PLEISTOCENE		SANDY CLAY	54.0	50.0	
298.0	BOND		GREEN SHALE	9.0	104.0	
289.0	BOND		BLACK SHALE	2.0	113.0	
287.0	BOND		GREEN SHALE	26.0	115.0	
261.0	BOND		LIMESTONE	2.5	141.0	
258.5	BOND		GREEN SHALE	12.5	143.5	
246.0	BOND	MT. CARMEL	SANDSTONE	99.0	156.0	
147.0			BLACK SHALE	1.0	255.0	
146.0	MODESTO		GRAY SHALE	3.0	256.0	
143.0	MODESTO		SANDY SHALE	27.0	259.0	
116.0	MODESTO		GRAY SHALE	10.0	286.0	
106.0	MODESTO		BLACK SHALE	1.0	296.0	
105.0	MODESTO		GREEN SHALE	139.0	297.0	
-34.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	436.0	
-52.0	MODESTO	FARMINGTON	SANDY SHALE	195.0	454.0	
-247.0	CARBONDALE	DANVILLE	COAL	3.0	649.0	APPROXIMATE THICKNESS
-250.0	CARBONDALE		UNDERCLAY	1.5	652.0	
-251.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.5	653.5	BROWN
-258.0	CARBONDALE		GREEN SHALE	23.0	660.0	
-281.0	CARBONDALE	HERRIN	COAL	3.5	683.0	APPROXIMATE THICKNESS
-284.5	CARBONDALE		UNDERCLAY	1.5	686.5	
-286.0	CARBONDALE		CALCAREOUS SHALE	22.0	688.0	
-308.0	CARBONDALE	DYKERSBURG	GREEN SHALE	96.3	710.0	
-404.3	CARBONDALE	SPRINGFIELD	COAL	6.5	806.3	
-410.8	CARBONDALE		GREEN SHALE	26.2	812.8	

MAPID: 18590013000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 24 QUARTERS/FOOTAGES: 50' S line, 1200' E line of SE NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.930994

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.327861

DATE COLLECTED: 7 / 1 / 1988

SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 838.3

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-381

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.0	PLEISTOCENE		SANDY CLAY	4.0	0.0	
385.0	PLEISTOCENE		SAND	10.0	4.0	
375.0	PLEISTOCENE		CLAY	98.0	14.0	
277.0	BOND		GREEN SHALE	28.0	112.0	
249.0	BOND		LIMESTONE	2.5	140.0	
246.5	BOND		BLACK SHALE	0.5	142.5	
246.0	BOND		SANDY SHALE	21.0	143.0	
225.0	BOND	MT. CARMEL	SANDSTONE	76.0	164.0	
149.0	BOND		GREEN SHALE	15.0	240.0	
134.0	BOND	CARTHAGE	LIMESTONE	5.0	255.0	
129.0	MODESTO		SANDY SHALE	20.0	260.0	
109.0	MODESTO		SANDSTONE	7.0	280.0	
102.0	MODESTO		GREEN SHALE	67.0	287.0	
35.0	MODESTO		BLACK SHALE	3.0	354.0	
32.0	MODESTO		CALCAREOUS SHALE	1.0	357.0	
31.0	MODESTO		LIMESTONE	1.0	358.0	
30.0	MODESTO		GREEN SHALE	79.0	359.0	
-49.0	MODESTO		BLACK SHALE	1.0	438.0	
-50.0	MODESTO		GREEN SHALE	5.0	439.0	
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	444.0	BROWN
-64.0	MODESTO		GREEN SHALE	12.0	453.0	
-76.0	MODESTO		SANDSTONE	10.0	465.0	
-86.0	MODESTO		SANDY SHALE	105.0	475.0	
-191.0	MODESTO		SANDSTONE	20.0	580.0	
-211.0	MODESTO		SANDY SHALE	30.0	600.0	
-241.0	MODESTO	FARMINGTON	GREEN SHALE	21.8	630.0	
-262.8	CARBONDALE	DANVILLE	COAL	3.6	651.8	
-266.4	CARBONDALE		UNDERCLAY	0.6	655.4	
-267.0	CARBONDALE	ANVIL ROCK	SANDSTONE	14.0	656.0	
-281.0	CARBONDALE		CALCAREOUS SHALE	3.0	670.0	
-284.0	CARBONDALE		GRAY SHALE	10.0	673.0	
-294.0	CARBONDALE	BRERETON	LIMESTONE	1.0	683.0	
-295.0	CARBONDALE	ANNA	BLACK SHALE	0.4	684.0	
-295.4	CARBONDALE	HERRIN	COAL	3.4	684.4	
-298.8	CARBONDALE		UNDERCLAY	1.2	687.8	
-300.0	CARBONDALE		SANDSTONE	31.0	689.0	
-331.0	CARBONDALE		SANDY SHALE	22.0	720.0	
-353.0	CARBONDALE		BLACK SHALE	1.0	742.0	
-354.0	CARBONDALE		SANDY SHALE	37.0	743.0	

-391.0	CARBONDALE		SANDSTONE	3.4	780.0	
-394.4	CARBONDALE		SILTSTONE	10.5	783.4	
-404.9	CARBONDALE	DYKERSBURG	SHALE	13.7	793.9	
-418.6	CARBONDALE	SPRINGFIELD	COAL	5.8	807.6	
-424.4	CARBONDALE		UNDERCLAY	5.8	813.4	
-430.2	CARBONDALE		LIMESTONE	2.0	819.2	GRAY
-432.2	CARBONDALE		CLAYSTONE	2.7	821.2	
-434.9	CARBONDALE		SILTSTONE	6.2	823.9	
-441.1	CARBONDALE		SANDSTONE	8.2	830.1	

MAPID: 18502295000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 2S 14W **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 2310' E line of SW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.935068 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.306611 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 377.0 **LOGGED (FT.):** 2597.0 **LOG TYPE:** Electric Log
SOURCE: MT. CARMEL DRLG. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-322.0	CARBONDALE	HERRIN	COAL	2.0	699.0	
-376.0	CARBONDALE	BRIAR HILL	COAL	-	753.0	
-461.0	CARBONDALE	SPRINGFIELD	COAL	8.0	838.0	
-533.0	CARBONDALE	HOUCHIN CREEK	COAL	-	910.0	

MAPID: 18527496000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 25

QUARTERS/FOOTAGES: NW NE

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.924551

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.318476

DATE COLLECTED: 8 / 24 / 1982

SURFACE ELEVATION (FT.):

LOGGED (FT.): 241.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Water Well

COMMENT: NO ELEVATION GIVEN IN LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SANDY CLAY	12.0	0.0	
-			SAND	15.0	12.0	LOG SAYS 'QUICK SAND'
-			MUD	28.0	27.0	BROWN MUD
-			CLAY	10.0	55.0	GRAY MUD
-			COAL	6.0	65.0	
-			CLAY	21.0	71.0	GRAY MUD
-			SAND	11.0	92.0	LOG SAYS 'QUICK SAND'
-			GRAY SHALE	22.0	103.0	
-			SANDSTONE	25.0	125.0	SS W/ LS
-			SANDSTONE	38.0	150.0	
-			GRAY SHALE	24.0	188.0	
-			SANDSTONE	29.0	212.0	

MAPID: 18590038000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 25 QUARTERS/FOOTAGES: 1000' N line, 400' E line of NW
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.928265 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.317563 DATE COLLECTED: 8 / 20 / 1990
 SURFACE ELEVATION (FT.): 396.5 LOGGED (FT.): 849.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO T2-448 WELL TYPE: Coal Test
 COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.5	PLEISTOCENE		CLAY	6.0	0.0	
390.5	PLEISTOCENE		SAND	11.0	6.0	
379.5	PLEISTOCENE		GRAVEL	4.0	17.0	
375.5	PLEISTOCENE		SAND	7.0	21.0	
368.5	PLEISTOCENE		UNCONSOLIDATED	104.0	28.0	
264.5	BOND	MT. CARMEL	SANDSTONE	126.0	132.0	
138.5	MODESTO		SANDY SHALE	178.0	258.0	
-39.5	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	436.0	BROWN
-49.5	MODESTO	FARMINGTON	SANDY SHALE	205.0	446.0	
-254.5	CARBONDALE	DANVILLE	COAL	2.0	651.0	APPROXIMATE THICKNESS
-256.5	CARBONDALE		UNDERCLAY	2.0	653.0	
-258.5	CARBONDALE		SANDY SHALE	4.0	655.0	
-262.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	659.0	
-266.5	CARBONDALE		GRAY SHALE	13.0	663.0	
-279.5	CARBONDALE	BRERETON	LIMESTONE	5.5	676.0	
-285.0	CARBONDALE	ANNA	BLACK SHALE	1.0	681.5	
-286.0	CARBONDALE	HERRIN	COAL	-	682.5	THICKNESS UNKNOWN
-	CARBONDALE		UNDERCLAY	-		
-	CARBONDALE		SANDY SHALE	-		
-363.5	CARBONDALE		SILTY SHALE	60.2	760.0	
-423.7	CARBONDALE	SPRINGFIELD	COAL	6.8	820.2	
-430.5	CARBONDALE		CLAYSTONE	1.9	827.0	
-432.4	CARBONDALE		GREEN SHALE	5.8	828.9	
-438.2	CARBONDALE		SANDSTONE	12.2	834.7	
-450.4	CARBONDALE		GREEN SHALE	1.0	846.9	
-451.4	CARBONDALE		SANDSTONE	1.1	847.9	

MAPID: 18590039000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 25 QUARTERS/FOOTAGES: 1300' N line, 950' W line of NW NE
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.923264 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.316421 DATE COLLECTED: 5 / 27 / 1987
 SURFACE ELEVATION (FT.): 377.5 LOGGED (FT.): 810.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO T-2-354 WELL TYPE: Coal Test
 COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
377.5	PLEISTOCENE		CLAY	15.0	0.0	
362.5	PLEISTOCENE		SAND	35.0	15.0	
327.5	PLEISTOCENE		CLAY	34.0	50.0	
293.5	PLEISTOCENE		SAND	16.0	84.0	
277.5	BOND		BLACK SHALE & COAL	3.0	100.0	
274.5	BOND		LIMESTONE	2.0	103.0	TAN
272.5	BOND		GREEN SHALE	32.0	105.0	
240.5	BOND	LIVINGSTON	LIMESTONE	2.0	137.0	GRAY
238.5	BOND		SANDSTONE	6.0	139.0	
232.5	BOND	REEL	LIMESTONE	3.0	145.0	GRAY
229.5	BOND	MT. CARMEL	SANDSTONE	75.0	148.0	
154.5	BOND	CARTHAGE	LIMESTONE	2.0	223.0	
152.5	MODESTO		BLACK SHALE & COAL	1.0	225.0	
151.5	MODESTO		GREEN SHALE	38.0	226.0	
113.5	MODESTO	NEW HAVEN	COAL	2.0	264.0	
111.5	MODESTO		SHALE	47.0	266.0	
64.5	MODESTO	WOMAC	COAL	3.0	313.0	APPROXIMATE THICKNESS
61.5	MODESTO		SHALE	77.0	316.0	
-15.5	MODESTO		BLACK SHALE	2.0	393.0	
-17.5	MODESTO	CHAPEL	COAL	1.0	395.0	APPROXIMATE THICKNESS
-18.5	MODESTO		GRAY SHALE	8.0	396.0	
-26.5	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	404.0	GRAY
-30.5	MODESTO	WEST FRANKLIN	GREEN SHALE	2.0	408.0	
-32.5	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	410.0	TAN
-37.5	MODESTO		GRAY SHALE	63.0	415.0	
-100.5	MODESTO		SILTSTONE	26.0	478.0	
-126.5	MODESTO		GREEN SHALE	49.0	504.0	
-175.5	MODESTO		LIMESTONE	1.0	553.0	
-176.5	MODESTO	FARMINGTON	GREEN SHALE	14.0	554.0	
-190.5	MODESTO	FARMINGTON	SILTSTONE	33.0	568.0	
-223.5	MODESTO	FARMINGTON	GREEN SHALE	19.0	601.0	
-242.5	CARBONDALE	DANVILLE	COAL	3.0	620.0	APPROXIMATE THICKNESS
-245.5	CARBONDALE		GREEN SHALE	19.0	623.0	
-264.5	CARBONDALE	BRERETON	LIMESTONE	4.0	642.0	TAN
-268.5	CARBONDALE	HERRIN	COAL	4.0	646.0	APPROXIMATE THICKNESS
-272.5	CARBONDALE		SILTY SHALE	50.0	650.0	
-322.5	CARBONDALE	BRIAR HILL	COAL	2.0	700.0	APPROXIMATE THICKNESS
-324.5	CARBONDALE	DYKERSBURG	GREEN SHALE	73.9	702.0	
-398.4	CARBONDALE	SPRINGFIELD	COAL	6.3	775.9	

-404.7	CARBONDALE	CLAYSTONE	1.0	782.2
-405.7	CARBONDALE	SILTSTONE	26.8	783.2

MAPID: 18590181000C VERSION: 1 PROJECT: NCRDS 02

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 25 QUARTERS/FOOTAGES: NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.922271 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.316636 DATE COLLECTED: 3 / 25 / 1993

SURFACE ELEVATION (FT.): 385.5 LOGGED (FT.): 117.0 LOG TYPE: Drillers Log

SOURCE: AMAX 93TH01 WELL TYPE: Coal Test

COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.5	PLEISTOCENE		SANDY CLAY	5.0	0.0	BROWN
380.5	PLEISTOCENE		SANDY CLAY	2.0	5.0	BROWN AND GRAY
378.5	PLEISTOCENE		SANDY CLAY	3.0	7.0	
375.5	PLEISTOCENE		SILTY CLAY	11.0	10.0	
364.5	PLEISTOCENE			3.5	21.0	
361.0	PLEISTOCENE		CLAY	8.5	24.5	
352.5	PLEISTOCENE			1.5	33.0	
351.0	PLEISTOCENE		CLAY	2.0	34.5	
349.0	PLEISTOCENE			2.5	36.5	
346.5	PLEISTOCENE		CLAY	4.0	39.0	
342.5	PLEISTOCENE			0.5	43.0	
342.0	PLEISTOCENE		SILTY CLAY	11.5	43.5	
330.5	PLEISTOCENE		CLAY	37.0	55.0	
293.5	PLEISTOCENE			6.0	92.0	
287.5	BOND		GRAY SHALE	9.0	98.0	
278.5	BOND		BLACK SHALE	2.0	107.0	
276.5	BOND		GRAY SHALE	1.0	109.0	
275.5	BOND		GRAY SANDSTONE	7.0	110.0	

MAPID: 18590182000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: WABASH **TWP/RNG:** 2S 14W **SECTION:** 25 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.920122 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.307481 **DATE COLLECTED:** 3 / 29 / 1993
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 127.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX 93TH02 **WELL TYPE:** Coal Test
COMMENT: BOX 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.0	PLEISTOCENE		SANDY CLAY	10.0	0.0	
376.0	PLEISTOCENE			10.0	10.0	SMALL
366.0	PLEISTOCENE			8.0	20.0	
358.0	PLEISTOCENE		SAND	6.0	28.0	
352.0	PLEISTOCENE		CLAY	2.0	34.0	
350.0	PLEISTOCENE			4.0	36.0	
346.0	PLEISTOCENE		CLAY	15.0	40.0	BROWN
331.0	PLEISTOCENE		CLAY	2.0	55.0	
329.0	PLEISTOCENE		SANDY CLAY	12.0	57.0	
317.0	PLEISTOCENE		CLAY	32.0	69.0	
285.0	PLEISTOCENE		SANDY CLAY	2.0	101.0	
283.0	PLEISTOCENE		CLAY	1.5	103.0	
281.5	PLEISTOCENE			5.5	104.5	
276.0	BOND		GRAY SHALE	1.0	110.0	
275.0	BOND		SANDY SHALE	8.0	111.0	
267.0	BOND		GRAY SHALE	8.0	119.0	

MAPID: 18501087000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 2S 14W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.944321 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.312154 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 2799.0 **LOG TYPE:**
SOURCE: MILLER, DEE DRLG. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-73.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	472.0	
-323.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	722.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1645.0			LIMESTONE	-	2044.0	
-2161.0		BASE BARLOW	LIMESTONE	-	2560.0	
-2400.0	RENAULT	BASE RENAULT	LIMESTONE	-	2799.0	

MAPID: 18501087000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.944321 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.312154 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2952.0 LOG TYPE: Electric Log
SOURCE: MILLER, DEE DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	3.0	722.0	
-	CARBONDALE	BRIAR HILL	COAL	-	780.0	
-	CARBONDALE	SPRINGFIELD	COAL	7.0	854.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	932.0	

MAPID: 18501088000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.953816 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.306566 DATE COLLECTED:
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 2021.0 LOG TYPE:
SOURCE: RYAN OIL CO., ETAL WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-91.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0	
-339.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	728.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1632.0			LIMESTONE	-	2021.0	

MAPID: 18501690000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.937248 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.306613 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2496.0 LOG TYPE:
SOURCE: BROWN, EARL H., III WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-88.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	468.0	
-322.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	702.0	
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-		
-1635.0			LIMESTONE	-	2015.0	
-2116.0		BASE BARLOW	LIMESTONE	-	2496.0	

MAPID: 18502260000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.939578 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.319489 DATE COLLECTED:
SURFACE ELEVATION (FT.): 404.0 LOGGED (FT.): 2560.0 LOG TYPE:
SOURCE: MT. CARMEL DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-72.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	476.0
-314.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	718.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1626.0			LIMESTONE	-	2030.0
-2156.0		BASE BARLOW	LIMESTONE	-	2560.0

MAPID: 18502533000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 380' N line, 330' E line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.937236 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.311989 DATE COLLECTED:
SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 2507.0 LOG TYPE:
SOURCE: KUZMICH, R. W. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	476.0
-324.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	724.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1624.0			LIMESTONE	-	2024.0
-2107.0		BASE BARLOW	LIMESTONE	-	2507.0

MAPID: 18502535000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.939587 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.317634 DATE COLLECTED:
SURFACE ELEVATION (FT.): 396.0 LOGGED (FT.): 2540.0 LOG TYPE:
SOURCE: KUZMICH, R. W. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-70.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	466.0
-317.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	713.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1634.0			LIMESTONE	-	2030.0
-2144.0		BASE BARLOW	LIMESTONE	-	2540.0

MAPID: 18502543000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.937225 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.317619 DATE COLLECTED:
SURFACE ELEVATION (FT.): 399.0 LOGGED (FT.): 2510.0 LOG TYPE:
SOURCE: KUZMICH, R. W. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	475.0
-319.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	718.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1623.0			LIMESTONE	-	2022.0
-2111.0		BASE BARLOW	LIMESTONE	-	2510.0

MAPID: 18502544000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 330' S line, 405' W line of SE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.939348 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.313958 DATE COLLECTED:
SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 2790.0 LOG TYPE:
SOURCE: KUZMICH, R. W. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0
-329.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	727.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1634.0			LIMESTONE	-	2032.0
-2118.0		BASE BARLOW	LIMESTONE	-	2516.0
-2392.0	RENAULT	BASE RENAULT	LIMESTONE	-	2790.0

MAPID: 18505585000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 890' N line, 330' W line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.95361 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.31808 DATE COLLECTED:
SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 2806.0 LOG TYPE:
SOURCE: GRAHAM OIL CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1648.0			LIMESTONE	-	2037.0
-2167.0		BASE BARLOW	LIMESTONE	-	2556.0
-2417.0	RENAULT	BASE RENAULT	LIMESTONE	-	2806.0

MAPID: 18590023000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: GRAYVILLE LONGITUDE: -87.936325

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.316466

DATE COLLECTED: 8 / 2 / 1995

SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 864.4

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-571

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
397.0	PLEISTOCENE		CLAY	6.0	0.0	
391.0	PLEISTOCENE		SAND	18.0	6.0	
373.0	PLEISTOCENE		UNCONSOLIDATED	85.0	24.0	
288.0	BOND		SANDY SHALE	58.5	109.0	
229.5	BOND		LIMESTONE	1.0	167.5	GRAY
228.5	BOND		SANDY SHALE	11.5	168.5	
217.0	BOND	CARTHAGE	SANDSTONE	104.0	180.0	
113.0	MODESTO		SANDY SHALE	48.0	284.0	
65.0	MODESTO	NEW HAVEN	COAL	1.0	332.0	APPROXIMATE THICKNES
64.0	MODESTO		SANDY SHALE	12.0	333.0	
52.0	MODESTO		SANDSTONE	10.0	345.0	
42.0	MODESTO		SANDY SHALE	111.0	355.0	
-69.0	MODESTO		BLACK SHALE	1.5	466.0	
-70.5	MODESTO		SANDY SHALE	2.0	467.5	
-72.5	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	469.5	BROWN
-74.5	MODESTO	WEST FRANKLIN	GRAY SHALE	3.5	471.5	
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.5	475.0	BROWN
-87.5	MODESTO		SANDY SHALE	110.0	484.5	
-197.5	MODESTO		SANDSTONE	40.5	594.5	
-238.0	MODESTO	FARMINGTON	SANDY SHALE	45.0	635.0	APPROXIMATE THICKNESS
-283.0	CARBONDALE	DANVILLE	COAL	2.5	680.0	APPROXIMATE THICKNESS
-285.5	CARBONDALE		UNDERCLAY	1.5	682.5	
-287.0	CARBONDALE		SANDY SHALE	3.5	684.0	
-290.5	CARBONDALE		GRAY SHALE	3.0	687.5	
-293.5	CARBONDALE		SANDY SHALE	18.5	690.5	
-312.0	CARBONDALE	BRERETON	LIMESTONE	3.0	709.0	GRAY
-315.0	CARBONDALE	ANNA	BLACK SHALE	1.0	712.0	
-316.0	CARBONDALE	HERRIN	COAL	4.0	713.0	APPROXIMATE THICKNESS
-320.0	CARBONDALE		UNDERCLAY	1.5	717.0	
-321.5	CARBONDALE		CALCAREOUS SHALE	10.0	718.5	
-331.5	CARBONDALE		SANDSTONE	12.5	728.5	
-344.0	CARBONDALE		SANDY SHALE	27.5	741.0	
-371.5	CARBONDALE	BRIAR HILL	COAL	0.5	768.5	
-372.0	CARBONDALE	DYKERSBURG	SILTY SHALE	68.9	769.0	
-440.9	CARBONDALE	SPRINGFIELD	COAL	5.9	837.9	
-446.8	CARBONDALE		CLAYSTONE	3.6	843.8	
-450.4	CARBONDALE		SILTSTONE	5.6	847.4	GRAY
-456.0	CARBONDALE		SANDSTONE	5.7	853.0	ARGIL
-461.7	CARBONDALE		SANDSTONE	5.7	858.7	

MAPID: 18590031000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 26 QUARTERS/FOOTAGES: 1180' N line, 630' W line of NW NE
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.943217 GEOLOGIST: NORTH
 CONFIDENTIAL: N LATITUDE: 38.317178 DATE COLLECTED: 9 / 20 / 1995
 SURFACE ELEVATION (FT.): 389.0 LOGGED (FT.): 846.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO T2-535 WELL TYPE: Coal Test
 COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
389.0	PLEISTOCENE		CLAY	3.0	0.0	
386.0	PLEISTOCENE		UNCONSOLIDATED	56.0	3.0	
330.0	BOND		GREEN SHALE	5.0	59.0	
325.0	BOND		SANDSTONE	5.0	64.0	
320.0	BOND		SANDY SHALE	22.5	69.0	
297.5	BOND		SANDSTONE	18.5	91.5	
279.0	BOND		SANDY SHALE	54.0	110.0	
225.0	BOND		LIMESTONE	1.5	164.0	BROWN
223.5	BOND		SANDY SHALE	42.5	165.5	
181.0	BOND	MT. CARMEL	SANDSTONE	52.0	208.0	
129.0	BOND	CARTHAGE	LIMESTONE	5.0	260.0	GRAY
124.0	MODESTO		SANDY SHALE	4.0	265.0	
120.0	MODESTO		BLACK SHALE	1.0	269.0	
119.0	MODESTO		SANDY SHALE	48.0	270.0	
71.0	MODESTO		COAL	0.7	318.0	
70.3	MODESTO		SANDY SHALE	32.3	318.7	
38.0	MODESTO	CHAPEL	COAL	1.0	351.0	APPROXIMATE THICKNESS
37.0	MODESTO		SANDY SHALE	93.0	352.0	
-56.0	MODESTO		BLACK SHALE	2.0	445.0	
-58.0	MODESTO		GREEN SHALE	3.0	447.0	
-61.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	450.0	GRAY
-63.0	MODESTO		GREEN SHALE	1.0	452.0	
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	453.0	GRAY
-70.5	MODESTO		SANDY SHALE	5.5	459.5	
-76.0	MODESTO		SANDSTONE	25.0	465.0	
-101.0	MODESTO		SANDY SHALE	60.0	490.0	
-161.0	MODESTO		SANDSTONE	35.0	550.0	
-196.0	MODESTO	FARMINGTON	SHALE	72.0	585.0	
-268.0	CARBONDALE	DANVILLE	COAL	3.3	657.0	
-271.3	CARBONDALE		UNDERCLAY	3.7	660.3	
-275.0	CARBONDALE		SANDY SHALE	9.5	664.0	
-284.5	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	673.5	GRAY
-286.0	CARBONDALE		SANDY SHALE	10.0	675.0	
-296.0	CARBONDALE	ANVIL ROCK	SANDSTONE	21.5	685.0	GRAY
-317.5	CARBONDALE	HERRIN	COAL	2.0	706.5	APPROXIMATE THICKNESS
-319.5	CARBONDALE		SANDSTONE	31.5	708.5	
-351.0	CARBONDALE		SANDY SHALE	20.0	740.0	
-371.0	CARBONDALE	BRIAR HILL	COAL	0.7	760.0	
-371.7	CARBONDALE	DYKERSBURG	SANDY SHALE	64.9	760.7	

-436.6	CARBONDALE	SPRINGFIELD	COAL	5.5	825.6	
-442.1	CARBONDALE		UNDERCLAY	3.8	831.1	
-445.9	CARBONDALE		SILTY SHALE	9.1	834.9	GREEN
-455.0	CARBONDALE		SANDSTONE	2.0	844.0	

MAPID: 18501089000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.95593 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.317738 DATE COLLECTED:

SURFACE ELEVATION (FT.): 392.0 LOGGED (FT.): 2822.0 LOG TYPE:

SOURCE: DUNCAN & ASHLAND OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-98.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	490.0
-352.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	744.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1646.0			LIMESTONE	-	2038.0
-2150.0		BASE BARLOW	LIMESTONE	-	2542.0
-2430.0	RENAULT	BASE RENAULT	LIMESTONE	-	2822.0

MAPID: 18501514000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.942725 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.299353 DATE COLLECTED:

SURFACE ELEVATION (FT.): 395.0 LOGGED (FT.): 2788.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-77.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	472.0
-318.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	713.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1608.0			LIMESTONE	-	2003.0
-2120.0		BASE BARLOW	LIMESTONE	-	2515.0
-2393.0	RENAULT	BASE RENAULT	LIMESTONE	-	2788.0

MAPID: 18502715000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.95429 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.301177 DATE COLLECTED:
SURFACE ELEVATION (FT.): 397.0 LOGGED (FT.): 2818.0 LOG TYPE:
SOURCE: MT. CARMEL DRLG. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-103.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-339.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	736.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1661.0			LIMESTONE	-	2058.0
-2190.0		BASE BARLOW	LIMESTONE	-	2587.0
-2421.0	RENAULT	BASE RENAULT	LIMESTONE	-	2818.0

MAPID: 18504889000C VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.945709 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.293934 DATE COLLECTED:
SURFACE ELEVATION (FT.): 382.0 LOGGED (FT.): 2729.0 LOG TYPE: Electric Log
SOURCE: GALLAGHER, VICTOR R. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-339.0	CARBONDALE	HERRIN	COAL	4.0	721.0
-391.0	CARBONDALE	BRIAR HILL	COAL	-	773.0
-453.0	CARBONDALE	SPRINGFIELD	COAL	6.0	835.0
-548.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0

MAPID: 18504892000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.947816 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.29578 DATE COLLECTED:
SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2787.0 LOG TYPE:
SOURCE: GALLAGHER, VICTOR R. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-113.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-348.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	735.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1631.0			LIMESTONE	-	2018.0
-2132.0		BASE BARLOW	LIMESTONE	-	2519.0
-2400.0	RENAULT	BASE RENAULT	LIMESTONE	-	2787.0

MAPID: 18504893000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.947209 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.301164 DATE COLLECTED:
SURFACE ELEVATION (FT.): 401.0 LOGGED (FT.): 2807.0 LOG TYPE:
SOURCE: GALLAGHER, VICTOR R. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	498.0
-329.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	730.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1642.0			LIMESTONE	-	2043.0
-		BASE BARLOW	LIMESTONE	-	
-2406.0	RENAULT	BASE RENAULT	LIMESTONE	-	2807.0

MAPID: 18504894000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 990' N line, 330' E line of NW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.943154 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.295711 DATE COLLECTED:
SURFACE ELEVATION (FT.): 384.0 LOGGED (FT.): 2776.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-106.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	490.0
-326.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	710.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1633.0			LIMESTONE	-	2017.0
-2121.0		BASE BARLOW	LIMESTONE	-	2505.0
-2392.0	RENAULT	BASE RENAULT	LIMESTONE	-	2776.0

MAPID: 18504898000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 35 QUARTERS/FOOTAGES: 330' S line, 990' W line of SE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.938097 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.299324 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2486.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-73.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	448.0
-303.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	678.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1629.0			LIMESTONE	-	2004.0
-2111.0		BASE BARLOW	LIMESTONE	-	2486.0

MAPID: 18504904000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 35

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.949394

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.302988

DATE COLLECTED:

SURFACE ELEVATION (FT.): 387.0

LOGGED (FT.): 2808.0

LOG TYPE:

SOURCE: GALLAGHER, VICTOR R.

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	463.0
-322.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	709.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-1645.0			LIMESTONE	-	2032.0
-2177.0		BASE BARLOW	LIMESTONE	-	2564.0
-2421.0	RENAULT	BASE RENAULT	LIMESTONE	-	2808.0

MAPID: 18590034000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH

TWP/RNG: 2S 14W

SECTION: 35

QUARTERS/FOOTAGES: SE NW

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.947429

GEOLOGIST: NORTH

CONFIDENTIAL: N

LATITUDE: 38.299436

DATE COLLECTED: 9 / 6 / 1994

SURFACE ELEVATION (FT.): 392.0

LOGGED (FT.): 856.9

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-561

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
392.0	PLEISTOCENE		CLAY	7.0	0.0	
385.0	PLEISTOCENE		UNCONSOLIDATED	8.0	7.0	
377.0	PLEISTOCENE		SAND	3.0	15.0	
374.0	PLEISTOCENE		UNCONSOLIDATED	56.0	18.0	
318.0	BOND		SANDSTONE	37.0	74.0	
281.0	BOND		SANDY SHALE	30.5	111.0	
250.5	BOND		LIMESTONE	0.5	141.5	GRAY
250.0	BOND		SANDY SHALE	30.0	142.0	
220.0	BOND	REEL	LIMESTONE	3.0	172.0	BROWN
217.0	BOND		SANDY SHALE	35.0	175.0	
182.0	BOND	MT. CARMEL	SANDSTONE	105.0	210.0	
77.0	BOND		GRAY SHALE	59.0	315.0	
18.0	BOND		BLACK SHALE	1.0	374.0	
17.0	BOND		SANDY SHALE	98.0	375.0	
-81.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	473.0	BROWN
-95.0	MODESTO	WEST FRANKLIN	GREEN SHALE	2.0	487.0	
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	489.0	BROWN
-99.0	MODESTO	WEST FRANKLIN	GREEN SHALE	4.0	491.0	
-103.0	MODESTO	WEST FRANKLIN	LIMESTONE	1.0	495.0	BROWN
-104.0	BOND		SANDY SHALE	4.0	496.0	
-108.0	BOND		SANDSTONE	25.0	500.0	
-133.0	BOND		SANDY SHALE	80.0	525.0	
-213.0	BOND		SANDSTONE	15.0	605.0	
-228.0	MODESTO	FARMINGTON	SANDY SHALE	67.0	620.0	
-295.0	CARBONDALE	DANVILLE	COAL	2.5	687.0	APPROXIMATE THICKNESS
-297.5	CARBONDALE		UNDERCLAY	1.5	689.5	
-299.0	CARBONDALE		SANDY SHALE	7.0	691.0	
-306.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	698.0	GRAY
-309.0	CARBONDALE		SANDY SHALE	9.0	701.0	
-318.0	CARBONDALE	CONANT	LIMESTONE	1.0	710.0	GRAY
-319.0	CARBONDALE		SANDY SHALE	7.0	711.0	
-326.0	CARBONDALE	BRERETON	LIMESTONE	3.0	718.0	GRAY
-329.0	CARBONDALE	ANNA	BLACK SHALE	1.0	721.0	
-330.0	CARBONDALE	HERRIN	COAL	4.0	722.0	APPROXIMATE THICKNESS
-334.0	CARBONDALE		SANDY SHALE	4.0	726.0	
-338.0	CARBONDALE		SANDSTONE	25.0	730.0	
-363.0	CARBONDALE	DYKERSBURG	SANDY SHALE	76.3	755.0	
-439.3	CARBONDALE	SPRINGFIELD	COAL	5.0	831.3	APPROXIMATE THICKNESS
-444.3	CARBONDALE		UNDERCLAY	1.4	836.3	

-445.7	CARBONDALE	SILTY SHALE	5.2	837.7
-450.9	CARBONDALE	SANDSTONE	1.1	842.9
-452.0	CARBONDALE	SILTY SHALE	4.1	844.0
-456.1	CARBONDALE	SANDSTONE	4.2	848.1
-460.3	CARBONDALE	SANDY SHALE	4.6	852.3

MAPID: 18502703000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 2S 14W SECTION: 36 QUARTERS/FOOTAGES: 990' S line, 330' E line of NW NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.923616 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.304751 DATE COLLECTED:

SURFACE ELEVATION (FT.): 391.0 LOGGED (FT.): 2605.0 LOG TYPE: Electric Log

SOURCE: GALLAGHER, VICTOR R. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-294.0	CARBONDALE	HERRIN	COAL	4.0	685.0
-352.0	CARBONDALE	BRIAR HILL	COAL	-	743.0
-439.0	CARBONDALE	SPRINGFIELD	COAL	7.0	830.0
-507.0	CARBONDALE	HOUCHIN CREEK	COAL	-	898.0

MAPID: 18504911000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 3 QUARTERS/FOOTAGES: E2 E2

QUADRANGLE: KEENSBURG LONGITUDE: -87.838634 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.288635 DATE COLLECTED:

SURFACE ELEVATION (FT.): 398.0 LOGGED (FT.): 2411.0 LOG TYPE: Electric Log

SOURCE: NEER, CARL J. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-134.0	CARBONDALE	HERRIN	COAL	4.0	532.0
-188.0	CARBONDALE	BRIAR HILL	COAL	-	586.0
-257.0	CARBONDALE	SPRINGFIELD	COAL	6.0	655.0
-376.0	CARBONDALE	HOUCHIN CREEK	COAL	-	774.0

MAPID: 18501093000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.85619 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.289056 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 2786.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-163.0	CARBONDALE	HERRIN	COAL	2.0	547.0	
-220.0	CARBONDALE	BRIAR HILL	COAL	-	604.0	
-305.0	CARBONDALE	SPRINGFIELD	COAL	6.0	689.0	
-396.0	CARBONDALE	HOUCHIN CREEK	COAL	-	780.0	

MAPID: 18502959000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 5 **QUARTERS/FOOTAGES:**
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.88888 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.289034 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2917.0 **LOG TYPE:** Electric Log
SOURCE: KELLEY&CONRAD&KAYE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	3.0	726.0	
-	CARBONDALE	BRIAR HILL	COAL	-	778.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.0	843.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	940.0	

MAPID: 18502960000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 6 **QUARTERS/FOOTAGES:**
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.901176 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.289034 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 2690.0 **LOG TYPE:** Electric Log
SOURCE: KELLEY&CONRAD&KAYE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-290.0	CARBONDALE	HERRIN	COAL	3.0	680.0	
-342.0	CARBONDALE	BRIAR HILL	COAL	-	732.0	
-404.0	CARBONDALE	SPRINGFIELD	COAL	4.0	794.0	
-500.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0	

MAPID: 18501099000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 1340' N line, 528' W line of SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.906667 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.277157 DATE COLLECTED: 7 / 0 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 2523.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 2 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1198'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SAND	145.0	0.0	SD & GRAVEL
-	BOND		LIMESTONE	50.0	145.0	
-	BOND		COAL	13.0	195.0	THICKNESS IS PROBABLY NOT ACCURATE
-	BOND	CARTHAGE	LIMESTONE	37.0	208.0	LS WITH SH STREAKS
-	PATOKA		SANDSTONE	6.0	245.0	
-	PATOKA		SHALE	11.0	251.0	
-	PATOKA		SANDSTONE	18.0	262.0	
-	PATOKA		SHALE	30.0	280.0	
-	PATOKA		COAL	2.0	310.0	THICKNESS IS PROBABLY NOT ACCURATE
-	PATOKA		SANDY SHALE	36.0	312.0	
-	PATOKA		COAL	2.0	348.0	THICKNESS IS PROBABLY NOT ACCURATE
-	PATOKA		SANDSTONE	95.0	350.0	
-	SHELBURN	WEST FRANKLIN	LIMESTONE	25.0	445.0	
-	SHELBURN		COAL	2.0	470.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	55.0	472.0	SH AND LS
-	SHELBURN		SHALE	93.0	527.0	SH
-	SHELBURN		COAL	3.0	620.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	17.0	623.0	
-	SHELBURN	DANVILLE	COAL	3.0	640.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SHALE	32.0	643.0	SH & LS
-	SHELBURN		SANDY SHALE	5.0	675.0	
-	CARBONDALE	HERRIN	COAL	4.0	680.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	132.0	684.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	816.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	67.0	820.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	16.0	887.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	92.0	903.0	
-	CARBONDALE		SANDSTONE	25.0	995.0	
-	CARBONDALE		SANDY SHALE	30.0	1020.0	
-	SPOON	SEELYVILLE	COAL	7.0	1050.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	18.0	1057.0	
-	CARBONDALE		LIMESTONE	21.0	1075.0	
-	CARBONDALE		SANDY SHALE	34.0	1096.0	
-	CARBONDALE		SHALE	20.0	1130.0	
-	CARBONDALE		LIMESTONE	18.0	1150.0	
-	CARBONDALE		SHALE	27.0	1168.0	SH W/ LS
-	CARBONDALE		COAL	3.0	1195.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501100000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 1340' N line, 2426' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.917073 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.277201 DATE COLLECTED: 8 / 0 / 1939

SURFACE ELEVATION (FT.): 378.0 LOGGED (FT.): 2530.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 4 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1025'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
378.0			SAND	125.0	0.0	SD AND GRAVEL
253.0			SANDSTONE	30.0	125.0	
223.0			SANDSTONE	65.0	155.0	SS AND SHALE
158.0			SHALE	15.0	220.0	SHALE AND SHELLS
143.0			SHALE	60.0	235.0	SHALE AND SS
83.0			SANDSTONE	25.0	295.0	SS AND GRAVEL
58.0			SANDY SHALE	90.0	320.0	
-32.0			SANDSTONE	15.0	410.0	
-47.0			SHALE	50.0	425.0	SH AND LIME SHELLS
-97.0			SANDSTONE	40.0	475.0	SS AND SH
-137.0			SHALE	126.0	515.0	SS AND SH
-263.0	SHELBURN		LIMESTONE	4.0	641.0	
-267.0	SHELBURN		SANDSTONE	10.0	645.0	
-277.0	SHELBURN		LIMESTONE	5.0	655.0	
-282.0	SHELBURN		LIMESTONE	12.0	660.0	
-294.0	CARBONDALE	HERRIN	COAL	3.0	672.0	THICKNESS IS PROBABLY NOT ACCURATE
-297.0	CARBONDALE		SHALE	100.0	675.0	
-397.0	CARBONDALE	SPRINGFIELD	COAL	2.0	775.0	THICKNESS IS PROBABLY NOT ACCURATE
-399.0	CARBONDALE		SHALE	33.0	777.0	
-432.0	CARBONDALE		SANDY SHALE	35.0	810.0	
-467.0	CARBONDALE		SHALE	35.0	845.0	
-502.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	880.0	THICKNESS IS PROBABLY NOT ACCURATE
-504.0	CARBONDALE		SHALE	8.0	882.0	
-512.0	CARBONDALE		SANDY SHALE	40.0	890.0	
-552.0	CARBONDALE		SHALE	55.0	930.0	
-607.0	CARBONDALE		SANDSTONE	20.0	985.0	
-627.0	CARBONDALE		LIMESTONE	13.0	1005.0	LS AND SH
-640.0	CARBONDALE		SHALE	2.0	1018.0	
-642.0	CARBONDALE	COLCHESTER	COAL	5.0	1020.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501101000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 3S 13W

SECTION: 7

QUARTERS/FOOTAGES: 1340' N line, 1684' E line of SW

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.914457

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.27719

DATE COLLECTED: 8 / 0 / 1939

SURFACE ELEVATION (FT.): 376.7

LOGGED (FT.): 2526.0

LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 5

WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 900'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
376.7			SANDSTONE	320.0	0.0	SS AND SH
56.7			SANDSTONE	98.0	320.0	
-41.3	SHELBURN	WEST FRANKLIN	LIMESTONE	207.0	418.0	LOG REPORTS 207' OF LIMESTONE
-248.3	SHELBURN		SANDY SHALE	27.0	625.0	
-275.3	CARBONDALE	HERRIN	COAL	4.0	652.0	THICKNESS IS PROBABLY NOT ACCURATE
-279.3	CARBONDALE		SANDY SHALE	216.0	656.0	
-495.3	CARBONDALE		COAL	4.0	872.0	THICKNESS IS PROBABLY NOT ACCURATE
-499.3	CARBONDALE		SANDY SHALE	14.0	876.0	
-513.3	CARBONDALE	HOUCHIN CREEK	COAL	10.0	890.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501102000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 300' N line, 3000' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.902068 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.277949 DATE COLLECTED: 8 / 0 / 1939

SURFACE ELEVATION (FT.): 382.5 LOGGED (FT.): 2530.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 6 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1035'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
382.5			SANDSTONE	115.0	0.0	SS & SH
267.5			SANDSTONE	15.0	115.0	SS AND GRAVEL
252.5			LIMESTONE	60.0	130.0	
192.5			SHALE	32.0	190.0	
160.5			SANDSTONE	28.0	222.0	SS AND SH
132.5	BOND	CARTHAGE	LIMESTONE	15.0	250.0	
117.5	PATOKA		SHALE	10.0	265.0	
107.5	PATOKA		SHALE	10.0	275.0	
97.5	PATOKA		SHALE	35.0	285.0	SH AND SS
62.5	PATOKA		CALCAREOUS SHALE	60.0	320.0	
2.5	PATOKA		SANDSTONE	45.0	380.0	
-42.5	SHELBURN	WEST FRANKLIN	LIMESTONE	20.0	425.0	
-62.5	SHELBURN		SHALE	65.0	445.0	
-127.5	SHELBURN		SHALE	95.0	510.0	SHALE AND SHELLS
-222.5	SHELBURN		SANDSTONE	51.0	605.0	
-273.5	SHELBURN		SHALE	37.0	656.0	
-310.5	CARBONDALE	HERRIN	COAL	7.0	693.0	THICKNESS IS PROBABLY NOT ACCURATE
-317.5	CARBONDALE		SHALE	20.0	700.0	SH W/ LS STREAKS
-337.5	CARBONDALE	BRIAR HILL	COAL	3.0	720.0	THICKNESS IS PROBABLY NOT ACCURATE
-340.5	CARBONDALE		SHALE	37.0	723.0	SH AND SS
-377.5	CARBONDALE		CALCAREOUS SHALE	20.0	760.0	
-397.5	CARBONDALE		SANDSTONE	25.0	780.0	
-422.5	CARBONDALE	SPRINGFIELD	COAL	3.0	805.0	THICKNESS IS PROBABLY NOT ACCURATE
-425.5	CARBONDALE		SANDY SHALE	82.0	808.0	
-507.5	CARBONDALE	HOUCHIN CREEK	COAL	10.0	890.0	THICKNESS IS PROBABLY NOT ACCURATE
-517.5	CARBONDALE		SANDSTONE	115.0	900.0	SS W/ SH PARTINGS
-632.5	CARBONDALE		SHALE	15.0	1015.0	
-647.5	CARBONDALE	COLCHESTER	COAL	5.0	1030.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501103000C VERSION: 1

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 1340' N line, 942' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.911844 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.277179 DATE COLLECTED: 9 / 0 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 3040.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 7 WELL TYPE: Dry Hole

COMMENT: NO ELEVATION. NO COAL AFTER 1010'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	200.0	0.0	
-			SHALE	42.0	200.0	
-			LIMESTONE	2.0	242.0	
-			SHALE	213.0	244.0	SHALE, SAND AND LIME SHELLS
-			SANDSTONE	188.0	457.0	SS & SH
-	CARBONDALE	HERRIN	COAL	5.0	645.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SANDSTONE	350.0	650.0	SS AND SHALE
-	CARBONDALE		SHALE	8.0	1000.0	
-	CARBONDALE	COLCHESTER	COAL	2.0	1008.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501104000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 393' N line, 2392' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.915302

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.279808

DATE COLLECTED: 11 / 0 / 1939

SURFACE ELEVATION (FT.): 377.3 LOGGED (FT.): 2558.0

LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 9

WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1010'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
377.3			SANDSTONE	94.0	0.0	SS AND GRAVEL
283.3			SHALE	90.0	94.0	
193.3			SANDSTONE	66.0	184.0	
127.3			SANDSTONE	50.0	250.0	SS AND SH
77.3			SANDSTONE	40.0	300.0	
37.3			SANDY SHALE	10.0	340.0	
27.3			SANDSTONE	70.0	350.0	SS W/ SH STREAKS
-42.7	SHELBURN	WEST FRANKLIN	LIMESTONE	22.0	420.0	
-64.7	SHELBURN		RED SHALE	18.0	442.0	
-82.7	SHELBURN		SANDY SHALE	40.0	460.0	
-122.7	SHELBURN		SHALE	54.0	500.0	
-176.7	SHELBURN		SANDSTONE	58.0	554.0	
-234.7	SHELBURN		SANDSTONE	23.0	612.0	SS AND SH
-257.7	SHELBURN		LIMESTONE	35.0	635.0	
-292.7	CARBONDALE	HERRIN	COAL	3.0	670.0	THICKNESS IS PROBABLY NOT ACCURATE
-295.7	CARBONDALE		SHALE	17.0	673.0	
-312.7	CARBONDALE		SANDY SHALE	73.0	690.0	
-385.7	CARBONDALE		SHALE	15.0	763.0	
-400.7	CARBONDALE	SPRINGFIELD	COAL	2.0	778.0	THICKNESS IS PROBABLY NOT ACCURATE
-402.7	CARBONDALE		SHALE	40.0	780.0	
-442.7	CARBONDALE		SANDY SHALE	50.0	820.0	
-492.7	CARBONDALE		SHALE	10.0	870.0	
-502.7	CARBONDALE		LIMESTONE	12.0	880.0	
-514.7	CARBONDALE	HOUCHIN CREEK	COAL	3.0	892.0	THICKNESS IS PROBABLY NOT ACCURATE
-517.7	CARBONDALE		SHALE	5.0	895.0	
-522.7	CARBONDALE		SHALE	20.0	900.0	
-542.7	CARBONDALE		BLACK SHALE	33.0	920.0	
-575.7	CARBONDALE		SHALE	7.0	953.0	
-582.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	30.0	960.0	
-612.7	CARBONDALE		SANDY SHALE	18.0	990.0	
-630.7	CARBONDALE	COLCHESTER	COAL	2.0	1008.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501105000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 1340' N line, 3960' E line of SW
 QUADRANGLE: GRAYVILLE LONGITUDE: -87.908927 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.284378 DATE COLLECTED: 12 / 0 / 1940
 SURFACE ELEVATION (FT.): LOGGED (FT.): 2502.0 LOG TYPE: Drillers Log
 SOURCE: PHILLIPS PETROLEUM CO. 10 WELL TYPE: Dry Hole
 COMMENT: NO ELEVATION. NO COAL AFTER 680'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	20.0	0.0	
-			SANDSTONE	50.0	20.0	SS & GRAVEL
-			SANDSTONE	50.0	70.0	
-			SHALE	5.0	120.0	
-			SANDSTONE	4.0	125.0	
-			SANDSTONE	10.0	129.0	
-			SANDSTONE	4.0	139.0	
-			SHALE	17.0	143.0	
-			SANDSTONE	20.0	160.0	SS W/ SH STREAKS
-			COAL	2.0	180.0	THICKNESS IS PROBABLY NOT ACCURATE
-			SANDSTONE	28.0	182.0	SS W/ GRAVEL & SH
-			SANDSTONE	88.0	210.0	SS & SH
-	MODESTO		SHALE	4.0	298.0	
-	MODESTO		SHALE	79.0	302.0	
-	MODESTO		SHALE	53.0	381.0	SH & SS
-	SHELBURN	WEST FRANKLIN	LIMESTONE	16.0	434.0	LS W/ SOME SS
-	SHELBURN		SANDSTONE	68.0	450.0	
-	SHELBURN		NO RECORD	100.0	518.0	NO RECORD GIVEN IN LOG
-	SHELBURN		COAL	1.0	618.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SANDSTONE	24.0	619.0	
-	SHELBURN	DANVILLE	COAL	2.0	643.0	THICKNESS IS PROBABLY NOT ACCURATE
-	SHELBURN		SANDSTONE	5.0	645.0	
-	SHELBURN		LIMESTONE	10.0	650.0	
-	SHELBURN		LIMESTONE	18.0	660.0	
-	CARBONDALE	HERRIN	COAL	2.0	678.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501106000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 761' N line, 4133' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.906193 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.280853 DATE COLLECTED: 1 / 0 / 1941

SURFACE ELEVATION (FT.): 378.5 LOGGED (FT.): 2800.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 11 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1330'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
378.5			SANDSTONE	45.0	0.0	
333.5			SANDSTONE	160.0	45.0	SS & GRAVEL
173.5			SANDSTONE	48.0	205.0	SS W/ SH STREAKS
125.5			SANDY SHALE	47.0	253.0	
78.5	SHELBURN		SHALE	35.0	300.0	SH W/ SS STREAKS
43.5	SHELBURN		COAL	5.0	335.0	THICKNESS IS PROBABLY NOT ACCURATE
38.5	SHELBURN		SHALE	70.0	340.0	
-31.5	SHELBURN		SANDSTONE	235.0	410.0	SS W/ SHALE STREAKS
-266.5	SHELBURN	DANVILLE	COAL	3.0	645.0	THICKNESS IS PROBABLY NOT ACCURATE
-269.5	SHELBURN		CALCAREOUS SHALE	16.0	648.0	
-285.5	SHELBURN		SANDY SHALE	10.0	664.0	
-295.5	CARBONDALE	HERRIN	COAL	2.0	674.0	THICKNESS IS PROBABLY NOT ACCURATE
-297.5	CARBONDALE		SANDSTONE	234.0	676.0	SS W/ SH
-531.5	CARBONDALE	HOUCHIN CREEK	COAL	5.0	910.0	THICKNESS IS PROBABLY NOT ACCURATE
-536.5	CARBONDALE		SANDSTONE	32.0	915.0	SS W/ SH
-568.5	CARBONDALE	SURVANT	COAL	3.0	947.0	THICKNESS IS PROBABLY NOT ACCURATE
-571.5	CARBONDALE		SANDSTONE	65.0	950.0	SS & SH
-636.5	CARBONDALE	COLCHESTER	COAL	-	1015.0	THICKNESS IS PROBABLY NOT ACCURATE
-646.5	CARBONDALE		SANDSTONE	60.0	1025.0	
-706.5	CARBONDALE		CALCAREOUS SHALE	45.0	1085.0	
-751.5	CARBONDALE		SANDSTONE	24.0	1130.0	
-775.5	CARBONDALE		COAL	2.0	1154.0	THICKNESS IS PROBABLY NOT ACCURATE
-777.5	CARBONDALE		SANDSTONE	82.0	1156.0	
-859.5	CARBONDALE		SHALE	8.0	1238.0	
-867.5	CARBONDALE		SANDSTONE	72.0	1246.0	
-939.5	CARBONDALE		LIMESTONE	7.0	1318.0	
-946.5	CARBONDALE		COAL	5.0	1325.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501107000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 1413' N line, 1823' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.915074 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.276991 DATE COLLECTED: 2 / 0 / 1941

SURFACE ELEVATION (FT.): 373.4 LOGGED (FT.): 2517.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 12 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1010'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
373.4			SANDSTONE	90.0	0.0	
283.4			SANDSTONE	82.0	90.0	SS AND SH
201.4			SANDSTONE	100.0	172.0	SS, SHALE, AND GRAVEL
101.4	PATOKA		SHALE	28.0	272.0	SH W/ SOME SS
73.4	PATOKA		SANDY SHALE	125.0	300.0	
-51.6	SHELBURN	WEST FRANKLIN	LIMESTONE	3.0	425.0	
-54.6	SHELBURN	WEST FRANKLIN	LIMESTONE	12.0	428.0	
-66.6	SHELBURN		SANDSTONE	40.0	440.0	
-106.6	SHELBURN		SANDSTONE	159.0	480.0	SS AND SH
-265.6	SHELBURN		SHALE	2.0	639.0	
-267.6	SHELBURN	DANVILLE	COAL	2.0	641.0	THICKNESS IS PROBABLY NOT ACCURATE
-269.6	SHELBURN		FOSSILIFEROUS LIMESTONE	19.0	643.0	
-288.6	CARBONDALE	HERRIN	COAL	4.0	662.0	THICKNESS IS PROBABLY NOT ACCURATE
-292.6	CARBONDALE		SANDSTONE	58.0	666.0	SS AND SH W/ LS STREAKS
-350.6	CARBONDALE		NO RECORD	100.0	724.0	NO RECORD GIVEN IN LOG
-450.6	CARBONDALE		SANDSTONE	46.0	824.0	SS AND SH
-496.6	CARBONDALE		SANDSTONE	10.0	870.0	
-506.6	CARBONDALE		SANDSTONE	50.0	880.0	SS AND SH
-556.6	CARBONDALE		SANDSTONE	10.0	930.0	SS AND SH W/ COAL STREAKS
-566.6	CARBONDALE		SANDSTONE	42.0	940.0	SS AND SH
-608.6	CARBONDALE		SANDY SHALE	26.0	982.0	
-634.6	SPOON	SEELYVILLE	COAL	2.0	1008.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501120000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 338' N line, 3871' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.906193

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.280853

DATE COLLECTED: 2 / 0 / 1941

SURFACE ELEVATION (FT.): 378.3 LOGGED (FT.): 2533.0

LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 13

WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1274'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
378.3			SANDSTONE	50.0	0.0	
328.3			SANDSTONE	221.0	50.0	SS & GRAVEL
107.3			SANDSTONE	22.0	271.0	
85.3			SANDY SHALE	97.0	293.0	
-11.7			SANDSTONE	38.0	390.0	
-49.7			COAL	1.0	428.0	THICKNESS IS PROBABLY NOT ACCURATE
-50.7			SANDSTONE	21.0	429.0	
-71.7			SANDY SHALE	157.0	450.0	
-228.7			SANDSTONE	43.0	607.0	
-271.7			SANDSTONE	36.0	650.0	SS W/ COAL STREAKS
-307.7	CARBONDALE	HERRIN	COAL	1.0	686.0	THICKNESS IS PROBABLY NOT ACCURATE
-308.7	CARBONDALE		SANDSTONE	71.0	687.0	SS W/ COAL STREAKS
-379.7	CARBONDALE		SHALE	154.0	758.0	
-533.7	CARBONDALE		SANDY SHALE	41.0	912.0	SDY SH W/ COAL STREAKS
-574.7	CARBONDALE		COAL	2.0	953.0	THICKNESS IS PROBABLY NOT ACCURATE
-576.7	CARBONDALE		SANDY SHALE	50.0	955.0	SDY SH W/ LS STREAKS
-626.7	CARBONDALE		CALCAREOUS SANDSTONE	100.0	1005.0	
-726.7	CARBONDALE		SANDY SHALE	135.0	1105.0	
-861.7	CARBONDALE		SANDSTONE	31.0	1240.0	SS W/ SH AND LS STREAKS
-892.7	CARBONDALE		COAL	3.0	1271.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501121000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 7 QUARTERS/FOOTAGES: 1337' N line, 1270' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.912996 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.277192 DATE COLLECTED: 5 / 0 / 1939

SURFACE ELEVATION (FT.): 393.0 LOGGED (FT.): 2881.0 LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 1 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1030'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
393.0			UNCONSOLIDATED	55.0	0.0	GLACIAL DRIFT
338.0			GRAY SHALE	87.0	55.0	
251.0			SANDSTONE	38.0	142.0	
213.0			COAL	2.0	180.0	THICKNESS IS PROBABLY NOT ACCURATE
211.0			LIMESTONE	1.0	182.0	
210.0			SANDSTONE	127.0	183.0	
83.0			SHALE	95.0	310.0	
-12.0	PATOKA	WEST FRANKLIN	SANDSTONE	25.0	405.0	
-37.0	SHELBURN		LIMESTONE	2.0	430.0	
-39.0	SHELBURN		CALCAREOUS SHALE	6.0	432.0	
-45.0	SHELBURN		LIMESTONE	2.0	438.0	
-47.0	SHELBURN		CALCAREOUS SHALE	2.0	440.0	
-49.0	SHELBURN		LIMESTONE	3.0	442.0	
-52.0	SHELBURN		CALCAREOUS SHALE	15.0	445.0	
-67.0	SHELBURN		GRAY SHALE	8.0	460.0	
-75.0	SHELBURN		SANDSTONE	4.0	468.0	
-79.0	SHELBURN		GRAY SHALE	28.0	472.0	
-107.0	SHELBURN		SANDY SHALE	8.0	500.0	
-115.0	SHELBURN		SANDSTONE	7.0	508.0	
-122.0	SHELBURN	DANVILLE	SANDSTONE	103.0	515.0	
-225.0	SHELBURN		COAL	1.0	618.0	THICKNESS IS PROBABLY NOT ACCURATE
-226.0	SHELBURN		GRAY SHALE	21.0	619.0	
-247.0	SHELBURN		COAL	2.0	640.0	THICKNESS IS PROBABLY NOT ACCURATE
-249.0	SHELBURN		LIMESTONE	3.0	642.0	
-252.0	SHELBURN		GRAY SHALE	5.0	645.0	
-257.0	SHELBURN		LIMESTONE	5.0	650.0	
-262.0	SHELBURN		LIMESTONE	15.0	655.0	LS AND SH
-277.0	SHELBURN		LIMESTONE	3.0	670.0	
-280.0	SHELBURN		GRAY SHALE	3.0	673.0	
-283.0	SHELBURN		LIMESTONE	4.0	676.0	
-287.0	CARBONDALE	HERRIN	COAL	2.0	680.0	THICKNESS IS PROBABLY NOT ACCURATE
-289.0	CARBONDALE		GRAY SHALE	13.0	682.0	
-302.0	CARBONDALE		LIMESTONE	5.0	695.0	
-307.0	CARBONDALE		SANDY SHALE	30.0	700.0	
-337.0	CARBONDALE	SPRINGFIELD	GRAY SHALE	45.0	730.0	
-382.0	CARBONDALE		COAL	1.0	775.0	THICKNESS IS PROBABLY NOT ACCURATE
-383.0	CARBONDALE		GRAY SHALE	4.0	776.0	
-387.0	CARBONDALE		LIMESTONE	3.0	780.0	
-390.0	CARBONDALE		GRAY SHALE	26.0	783.0	

-416.0	CARBONDALE		SANDSTONE	56.0	809.0	
-472.0	CARBONDALE		GRAY SHALE	26.0	865.0	
-498.0	CARBONDALE		LIMESTONE	3.0	891.0	
-501.0	CARBONDALE		GRAY SHALE	4.0	894.0	
-505.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	898.0	THICKNESS IS PROBABLY NOT ACCURATE
-507.0	CARBONDALE		GRAY SHALE	14.0	900.0	
-521.0	CARBONDALE		LIMESTONE	2.0	914.0	
-523.0	CARBONDALE		GRAY SHALE	4.0	916.0	
-527.0	CARBONDALE	SURVANT	COAL	5.0	920.0	THICKNESS IS PROBABLY NOT ACCURATE
-532.0	CARBONDALE		SANDSTONE	15.0	925.0	SS W/ CO STREAKS
-547.0	CARBONDALE		GRAY SHALE	40.0	940.0	
-587.0	CARBONDALE		SANDSTONE	10.0	980.0	
-597.0	CARBONDALE		COAL	1.0	990.0	THICKNESS IS PROBABLY NOT ACCURATE
-598.0	CARBONDALE		SANDSTONE	19.0	991.0	
-617.0	CARBONDALE		GRAY SHALE	10.0	1010.0	
-627.0	CARBONDALE	COLCHESTER	COAL	-	1020.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18501295000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 7 **QUARTERS/FOOTAGES:** 1772' S line, 1566' E line of NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.908624 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.285755 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 378.0 **LOGGED (FT.):** 2487.0 **LOG TYPE:** Electric Log
SOURCE: AMES, HARRY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-298.0	CARBONDALE	HERRIN	COAL	4.0	676.0
-354.0	CARBONDALE	BRIAR HILL	COAL	-	732.0
-402.0	CARBONDALE	SPRINGFIELD	COAL	7.0	780.0
-500.0	CARBONDALE	HOUCHIN CREEK	COAL	-	878.0

MAPID: 18501379000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH

TWP/RNG: 3S 13W

SECTION: 7

QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.913269

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.281785

DATE COLLECTED: 0 / 0 / 1939

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2932.0

LOG TYPE: Drillers Log

SOURCE: PHILLIPS PETROLEUM CO. 1

WELL TYPE: Dry Hole

COMMENT: NO ELEVATION. NO COAL AFTER 1036'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SAND	130.0	0.0	SD AND GRAVEL
-			LIMESTONE	57.0	130.0	
-			SANDSTONE	62.0	187.0	
-			LIMESTONE	16.0	249.0	LS AND SH
-			SHALE	125.0	265.0	SH AND LIME SHELLS
-			SANDSTONE	55.0	390.0	SS W/ SDY SH STREAKS
-			LIMESTONE	3.0	445.0	
-			COAL	1.0	448.0	THICKNESS IS PROBABLY NOT ACCURATE
-			LIMESTONE	5.0	449.0	
-			SHALE	4.0	454.0	
-			LIMESTONE	17.0	458.0	
-			UNCLASSIFIED	14.0	475.0	LOG SAYS 'RED BED'
-			SHALE	96.0	489.0	SH AND SHELLS
-			SANDSTONE	45.0	585.0	SS W/ SHALE BREAKS
-			SANDSTONE	45.0	630.0	
-			LIMESTONE	7.0	675.0	
-			SHALE	113.0	682.0	SH AND SHELLS
-	CARBONDALE	HERRIN	COAL	10.0	795.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	45.0	805.0	
-	CARBONDALE	SPRINGFIELD	COAL	2.0	850.0	THICKNESS IS PROBABLY NOT ACCURATE
-	CARBONDALE		SHALE	30.0	852.0	SH W/ SS
-	CARBONDALE		LIMESTONE	8.0	882.0	
-	CARBONDALE		BLACK SHALE	10.0	890.0	BK SH W/ (#4) COAL
-	CARBONDALE		SANDSTONE	20.0	900.0	
-	CARBONDALE		SANDY SHALE	25.0	920.0	
-	CARBONDALE		BLACK SHALE	25.0	945.0	
-	CARBONDALE		SANDY SHALE	10.0	970.0	
-	CARBONDALE		SHALE	20.0	980.0	SH & SS
-	CARBONDALE		SANDY SHALE	20.0	1000.0	
-	CARBONDALE		SANDSTONE	5.0	1020.0	
-	CARBONDALE		SHALE	9.0	1025.0	SH & LS SHELLS
-	CARBONDALE	COLCHESTER	COAL	2.0	1034.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18504919000C **VERSION:** 1 **PROJECT:** NCRDS92
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 7 **QUARTERS/FOOTAGES:** SW SW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.915636 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.275483 **DATE COLLECTED:** 8 / 0 / 1939
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2515.3 **LOG TYPE:** Drillers Log
SOURCE: PHILLIPS PETROLEUM CO. 3 **WELL TYPE:** Dry Hole
COMMENT: NO COAL REPORTED DEEPER THAN 1027'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	682.0
-	CARBONDALE	SPRINGFIELD	COAL	5.0	785.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	895.0

MAPID: 18505183000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 8 **QUARTERS/FOOTAGES:** 2310' S line, 2351' E line of NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.891931 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.287652 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 2926.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-346.0	CARBONDALE	HERRIN	COAL	3.0	732.0
-399.0	CARBONDALE	BRIAR HILL	COAL	-	785.0
-478.0	CARBONDALE	SPRINGFIELD	COAL	6.0	864.0
-554.0	CARBONDALE	HOUCHIN CREEK	COAL	-	940.0

MAPID: 18502262000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 13W **SECTION:** 9 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of NE SE
QUADRANGLE: KEENSBURG **LONGITUDE:** -87.858367 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.279375 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1182.0 **LOG TYPE:** Electric Log
SOURCE: DUPONT, P., JR. TRUSTEE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	533.0
-	CARBONDALE	BRIAR HILL	COAL	-	590.0
-	CARBONDALE	SPRINGFIELD	COAL	6.0	670.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	757.0

MAPID: 18502278000C

VERSION: 1

PROJECT: CIRC 431

COUNTY: WABASH

TWP/RNG: 3S 13W

SECTION: 10

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

QUADRANGLE: KEENSBURG

LONGITUDE: -87.846982

GEOLOGIST: HOPKINS

CONFIDENTIAL: N

LATITUDE: 38.281963

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 1225.0

LOG TYPE: Electric Log

SOURCE: SHARP OLEN D

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	4.0	528.0	
-	CARBONDALE	BRIAR HILL	COAL	-	586.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.0	663.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	758.0	

MAPID: 18590020000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 10 QUARTERS/FOOTAGES: 700' N line, 1150' W line of SW

QUADRANGLE: KEENSBURG LONGITUDE: -87.850907

GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.27841

DATE COLLECTED: 6 / 29 / 1989

SURFACE ELEVATION (FT.): 385.9 LOGGED (FT.): 710.3

LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-417

WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
385.9	PLEISTOCENE		CLAY	2.0	0.0	
383.9	PLEISTOCENE		SAND	38.0	2.0	
345.9	PLEISTOCENE		SAND & GRAVEL	29.0	40.0	
316.9	BOND	MT. CARMEL	SANDSTONE	69.0	69.0	LOWER SHALEY
247.9	MODESTO		GREEN SHALE	73.0	138.0	SOME SANDY
174.9	MODESTO		SILTSTONE	24.0	211.0	
150.9	MODESTO	TRIVOLI	SANDSTONE/COAL	35.0	235.0	
115.9	MODESTO	TRIVOLI	SANDSTONE	5.5	270.0	WITH SHALE
110.4	MODESTO		BLACK SHALE	7.0	275.5	
103.4	MODESTO		GREEN SHALE	7.5	282.5	
95.9	MODESTO		SHALY SANDSTONE	2.0	290.0	
93.9	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	292.0	
81.9	MODESTO	FARMINGTON	GREEN SHALE	198.0	304.0	SOME SANDY
-116.1	CARBONDALE	DANVILLE	COAL	3.0	502.0	APPROXIMATE THICKNESS
-119.1	CARBONDALE		UNDERCLAY	1.0	505.0	
-120.1	CARBONDALE		SANDY SHALE	12.0	506.0	
-132.1	CARBONDALE	ANVIL ROCK	SHALY SANDSTONE	19.0	518.0	
-151.1	CARBONDALE	ANNA	BLACK SHALE	1.5	537.0	
-152.6	CARBONDALE	HERRIN	COAL	4.0	538.5	APPROXIMATE THICKNESS
-156.6	CARBONDALE		UNDERCLAY	1.0	542.5	
-157.6	CARBONDALE		GREEN SHALE	7.0	543.5	
-164.6	CARBONDALE		SANDSTONE	4.5	550.5	
-169.1	CARBONDALE		LIMESTONE	5.0	555.0	
-174.1	CARBONDALE		GREEN SHALE	19.0	560.0	
-193.1	CARBONDALE		SANDSTONE	16.0	579.0	LOWER SHALEY
-209.1	CARBONDALE		SANDY SHALE	24.5	595.0	
-233.6	CARBONDALE	BRIAR HILL	COAL	1.2	619.5	
-234.8	CARBONDALE		LIMESTONE	0.5	620.7	GRAY
-235.3	CARBONDALE	DYKERSBURG	SILTY SHALE	51.9	621.2	
-287.2	CARBONDALE	DYKERSBURG	SILTY SHALE	6.9	673.1	
-294.1	CARBONDALE		SILTY SHALE	2.8	680.0	
-296.9	CARBONDALE		SILTSTONE	2.8	682.8	
-299.7	CARBONDALE		SILTY SHALE	2.7	685.6	
-302.4	CARBONDALE		SILTY SANDSTONE	3.7	688.3	
-306.1	CARBONDALE		GREEN SHALE	6.0	692.0	
-312.1	CARBONDALE		SILTSTONE	2.7	698.0	
-314.8	CARBONDALE		SILTY SHALE	9.6	700.7	

MAPID: 18590021000C VERSION: 1

PROJECT: LUMP

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 10 QUARTERS/FOOTAGES: 495' N line, 169' E line of NW NE

QUADRANGLE: KEENSBURG LONGITUDE: -87.841627 GEOLOGIST: NORTH

CONFIDENTIAL: N LATITUDE: 38.286301 DATE COLLECTED: 7 / 28 / 1980

SURFACE ELEVATION (FT.): 384.4 LOGGED (FT.): 800.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO T2-248 WELL TYPE: Coal Test

COMMENT: PERMIT 39; WABASH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
384.4	PLEISTOCENE		CLAY	5.0	0.0	
379.4	PLEISTOCENE		SAND	11.0	5.0	
368.4	PLEISTOCENE		SAND & GRAVEL	47.0	16.0	
321.4	BOND		GREEN SHALE	10.0	63.0	
311.4	BOND	MT. CARMEL	SANDSTONE	9.0	73.0	
302.4	BOND	CARTHAGE	LIMESTONE	7.0	82.0	
295.4	MODESTO		GREEN SHALE	27.0	89.0	
268.4	MODESTO		SANDSTONE	4.0	116.0	
264.4	MODESTO		GREEN SHALE	86.0	120.0	
178.4	MODESTO		GREEN SHALE	53.0	206.0	
125.4	MODESTO	MACOUPIN	LIMESTONE	3.0	259.0	BROWN
122.4	MODESTO		GREEN SHALE	10.0	262.0	
112.4	MODESTO	TRIVOLI	SANDSTONE	13.0	272.0	
99.4	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	285.0	BROWN
93.4	MODESTO	WEST FRANKLIN	GREEN SHALE	3.0	291.0	
90.4	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	294.0	BROWN
86.4	MODESTO		SANDY SHALE	27.0	298.0	
59.4	MODESTO		GREEN SHALE	35.0	325.0	
24.4	MODESTO	FARMINGTON	SANDY SHALE	120.0	360.0	
-95.6	MODESTO	FARMINGTON	GREEN SHALE	1.0	480.0	
-96.6	CARBONDALE	DANVILLE	COAL	4.0	481.0	APPROXIMATE THICKNESS
-100.6	CARBONDALE		UNDERCLAY	2.0	485.0	
-102.6	CARBONDALE		GREEN SHALE	15.0	487.0	
-117.6	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	502.0	BROWN
-121.6	CARBONDALE		SANDY SHALE	15.0	506.0	
-136.6	CARBONDALE	BRERETON	LIMESTONE	7.0	521.0	BROWN
-143.6	CARBONDALE	ANNA	BLACK SHALE	6.0	528.0	
-149.6	CARBONDALE	HERRIN	COAL	5.0	534.0	APPROXIMATE THICKNESS
-154.6	CARBONDALE		UNDERCLAY	1.0	539.0	
-155.6	CARBONDALE	DYKERSBURG	SANDY SHALE	124.7	540.0	
-280.3	CARBONDALE	SPRINGFIELD	COAL	6.3	664.7	
-286.6	CARBONDALE		UNDERCLAY	0.6	671.0	
-287.2	CARBONDALE		SANDSTONE	8.4	671.6	
-295.6	CARBONDALE		LIMESTONE	2.0	680.0	
-297.6	CARBONDALE		GREEN SHALE	79.0	682.0	
-376.6	CARBONDALE	EXCELLO	BLACK SHALE	5.0	761.0	
-381.6	CARBONDALE	HOUCHIN CREEK	COAL	4.0	766.0	APPROXIMATE
-385.6	CARBONDALE		UNDERCLAY	1.0	770.0	100+FEET MISSING (POSSIBLE FAULTING)
-386.6	CARBONDALE		GREEN SHALE	4.0	771.0	

-390.6	CARBONDALE	DEKOVEN	COAL	3.0	775.0	APPROXIMATE THICKNESS
-393.6	CARBONDALE		UNDERCLAY	2.0	778.0	
-395.6	CARBONDALE		GREEN SHALE	15.0	780.0	
-410.6	CARBONDALE	DAVIS	COAL	2.0	795.0	APPROXIMATE THICKNESS
-412.6	CARBONDALE		UNDERCLAY	3.0	797.0	APPROXIMATE THICKNESS

MAPID: 18501112000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 13W SECTION: 18 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.916569 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.273204 DATE COLLECTED:

SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2512.0 LOG TYPE: Electric Log

SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-279.0	CARBONDALE	HERRIN	COAL	4.0	666.0	
-321.0	CARBONDALE	BRIAR HILL	COAL	-	708.0	
-375.0	CARBONDALE	SPRINGFIELD	COAL	4.0	762.0	
-493.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0	

MAPID: 18501115000C VERSION: 1 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 2 QUARTERS/FOOTAGES: 480' S line, 1380' E line

QUADRANGLE: GRAYVILLE LONGITUDE: -87.943064 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.290033 DATE COLLECTED:

SURFACE ELEVATION (FT.): 387.0 LOGGED (FT.): 2862.0 LOG TYPE: Electric Log

SOURCE: GEORGE & WRATHER OIL WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-345.0	CARBONDALE	HERRIN	COAL	4.0	732.0	
-409.0	CARBONDALE	BRIAR HILL	COAL	-	796.0	
-449.0	CARBONDALE	SPRINGFIELD	COAL	6.0	836.0	
-543.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0	

MAPID: 18501405000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' E line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.957131 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.289814 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2545.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-108.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	483.0
-359.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	734.0
-1628.0			LIMESTONE	-	2003.0
-2170.0		BASE BARLOW	LIMESTONE	-	2545.0

MAPID: 18501405000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' E line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.957131 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.289814 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2729.0 LOG TYPE: Electric Log
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-359.0	CARBONDALE	HERRIN	COAL	4.0	734.0
-411.0	CARBONDALE	BRIAR HILL	COAL	-	786.0
-474.0	CARBONDALE	SPRINGFIELD	COAL	6.0	849.0
-559.0	CARBONDALE	HOUCHIN CREEK	COAL	-	934.0

MAPID: 18501117000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96535 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.277857 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2072.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-145.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	520.0
-385.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	760.0
-1697.0			LIMESTONE	-	2072.0

MAPID: 18501119000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.962075 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.282911 DATE COLLECTED:
SURFACE ELEVATION (FT.): 378.0 LOGGED (FT.): 2582.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-118.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	496.0
-378.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	756.0
-1652.0			LIMESTONE	-	2030.0
-2204.0		BASE BARLOW	LIMESTONE	-	2582.0

MAPID: 18501222000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.957135 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.286216 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2570.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-109.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	488.0
-361.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	740.0
-1671.0			LIMESTONE	-	2050.0
-2191.0		BASE BARLOW	LIMESTONE	-	2570.0

MAPID: 18501227000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.967423 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.279853 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2627.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-135.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	510.0
-393.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	768.0
-660.0	CARBONDALE	COLCHESTER	COAL	-	1035.0
-1705.0			LIMESTONE	-	2080.0
-2252.0		BASE BARLOW	LIMESTONE	-	2627.0

MAPID: 18501299000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.967012 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.283203 DATE COLLECTED:

SURFACE ELEVATION (FT.): 373.0 LOGGED (FT.): 2852.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-385.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	758.0
-1704.0			LIMESTONE	-	2077.0
-2263.0		BASE BARLOW	LIMESTONE	-	2636.0
-2479.0	RENAULT	BASE RENAULT	LIMESTONE	-	2852.0

MAPID: 18501431000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.959879 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.280954 DATE COLLECTED:

SURFACE ELEVATION (FT.): 373.0 LOGGED (FT.): 2803.0 LOG TYPE:

SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	488.0
-377.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	750.0
-654.0	CARBONDALE	COLCHESTER	COAL	-	1027.0
-1661.0			LIMESTONE	-	2034.0
-2208.0		BASE BARLOW	LIMESTONE	-	2581.0
-2430.0	RENAULT	BASE RENAULT	LIMESTONE	-	2803.0

MAPID: 18501499000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.962389 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.277616 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2534.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	502.0
-377.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	752.0
-648.0	CARBONDALE	COLCHESTER	COAL	-	1023.0
-1675.0			LIMESTONE	-	2050.0
-2159.0		BASE BARLOW	LIMESTONE	-	2534.0

MAPID: 18502772000C VERSION: 1 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.962487 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.275955 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2760.0 LOG TYPE: Electric Log
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	760.0
-	CARBONDALE	BRIAR HILL	COAL	-	813.0
-	CARBONDALE	SPRINGFIELD	COAL	8.0	880.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	940.0

MAPID: 18504930000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 10 QUARTERS/FOOTAGES: 160' N line, 200' W line of SW NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96471 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.286833 DATE COLLECTED:
SURFACE ELEVATION (FT.): 381.0 LOGGED (FT.): 2850.0 LOG TYPE:
SOURCE: CARTER J W HENRY S WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	508.0
-386.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	767.0
-654.0	CARBONDALE	COLCHESTER	COAL	-	1035.0
-1679.0			LIMESTONE	-	2060.0
-2235.0		BASE BARLOW	LIMESTONE	-	2616.0
-2469.0	RENAULT	BASE RENAULT	LIMESTONE	-	2850.0

MAPID: 18501124000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.941031 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.284141 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 2673.0 **LOG TYPE:** Electric Log
SOURCE: VIC & VAN OPER CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-332.0	CARBONDALE	HERRIN	COAL	3.0	716.0	
-376.0	CARBONDALE	BRIAR HILL	COAL	-	760.0	
-432.0	CARBONDALE	SPRINGFIELD	COAL	6.0	816.0	
-538.0	CARBONDALE	HOUCHIN CREEK	COAL	-	922.0	

MAPID: 18504932000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 11 **QUARTERS/FOOTAGES:** 2310' N line, 3680' E line
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.953054 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.282472 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 373.0 **LOGGED (FT.):** 1069.5 **LOG TYPE:** Electric Log
SOURCE: V.R.GALLAGHER \ **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-611.0	CARBONDALE	COLCHESTER	COAL	0.5	984.0	
-637.0	CARBONDALE	DEKOVEN	COAL	1.0	1010.0	
-690.0	CARBONDALE	LOWER DEKOVEN	COAL	1.3	1063.0	
-691.3	CARBONDALE		UNKNOWN	0.7	1064.3	
-692.0	CARBONDALE	DAVIS	COAL	4.5	1065.0	

MAPID: 18527738000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 660' W line of NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.953668 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.287948 **DATE COLLECTED:** 12 / 7 / 1989
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 1084.0 **LOG TYPE:** Nuclear Log
SOURCE: MONRAE OIL & GAS LTD **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-630.0	CARBONDALE	COLCHESTER	COAL	0.0	1013.0	
-694.0	CARBONDALE	LOWER DEKOVEN	COAL	1.5	1077.0	
-697.0	CARBONDALE	DAVIS	COAL	4.0	1080.0	

MAPID: 18500285000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 970' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.943344 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.260224 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2857.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-80.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	452.0
-336.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	708.0
-1582.0			LIMESTONE	-	1954.0
-2078.0		BASE BARLOW	LIMESTONE	-	2450.0
-2485.0	RENAULT	BASE RENAULT	LIMESTONE	-	2857.0

MAPID: 18500285000C VERSION: 2 PROJECT: CIRC 431
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 970' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.943344 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.260224 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2860.0 LOG TYPE: Electric Log
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-336.0	CARBONDALE	HERRIN	COAL	4.0	708.0
-368.0	CARBONDALE	BRIAR HILL	COAL	-	740.0
-428.0	CARBONDALE	SPRINGFIELD	COAL	4.0	800.0
-535.0	CARBONDALE	HOUCHIN CREEK	COAL	-	907.0

MAPID: 18500286000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 1172' N line, 896' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.952844 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.271102 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2492.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-125.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-362.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	737.0
-1630.0			LIMESTONE	-	2005.0
-2117.0		BASE BARLOW	LIMESTONE	-	2492.0

MAPID: 18500311000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.954827 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.262314 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2776.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	504.0
-379.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	756.0
-1641.0			LIMESTONE	-	2018.0
-2122.0		BASE BARLOW	LIMESTONE	-	2499.0
-2399.0	RENAULT	BASE RENAULT	LIMESTONE	-	2776.0

MAPID: 18500312000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.954828 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.266028 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2781.0 LOG TYPE:
SOURCE: SOHIO PRODUCING WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-133.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	508.0
-377.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	752.0
-1645.0			LIMESTONE	-	2020.0
-2127.0		BASE BARLOW	LIMESTONE	-	2502.0
-2406.0	RENAULT	BASE RENAULT	LIMESTONE	-	2781.0

MAPID: 18500354000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.954828 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.269739 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2778.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-140.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	516.0
-361.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	737.0
-1640.0			LIMESTONE	-	2016.0
-2124.0		BASE BARLOW	LIMESTONE	-	2500.0
-2402.0	RENAULT	BASE RENAULT	LIMESTONE	-	2778.0

MAPID: 18501149000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 14 **QUARTERS/FOOTAGES:** 660' S line, 327' W line of NW SE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.954838 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.261337 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 2750.0 **LOG TYPE:**
SOURCE: SOHIO PETROLEUM CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-81.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	462.0
-346.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	727.0
-1589.0			LIMESTONE	-	1970.0
-2081.0		BASE BARLOW	LIMESTONE	-	2462.0
-2369.0	RENAULT	BASE RENAULT	LIMESTONE	-	2750.0

MAPID: 18501150000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 14 **QUARTERS/FOOTAGES:** 35' S line, 990' W line of SE NW
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.952516 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.259572 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 377.0 **LOGGED (FT.):** 2470.0 **LOG TYPE:**
SOURCE: GRAY W W **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-128.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	505.0
-348.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	725.0
-1613.0			LIMESTONE	-	1990.0
-2093.0		BASE BARLOW	LIMESTONE	-	2470.0

MAPID: 18501151000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.945414 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.26216 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 2461.0 **LOG TYPE:**
SOURCE: GRAY W W **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-85.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	465.0
-322.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	702.0
-1594.0			LIMESTONE	-	1974.0
-2081.0		BASE BARLOW	LIMESTONE	-	2461.0

MAPID: 18501154000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 316' N line, 294' W line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.950248 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.265994 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2472.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-113.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	488.0
-1609.0			LIMESTONE	-	1984.0
-2097.0		BASE BARLOW	LIMESTONE	-	2472.0

MAPID: 18501155000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 136' S line, 225' E line of SW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.95215 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.267273 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2494.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-121.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-371.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	750.0
-1631.0			LIMESTONE	-	2010.0
-2115.0		BASE BARLOW	LIMESTONE	-	2494.0

MAPID: 18501157000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 990' S line, 1320' W line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.951359 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.262188 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2481.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-99.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	476.0
-361.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	738.0
-1620.0			LIMESTONE	-	1997.0
-2104.0		BASE BARLOW	LIMESTONE	-	2481.0

MAPID: 18501158000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 660' W line of NW SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.953671 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.264118 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2493.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-126.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	503.0
-373.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	750.0
-1639.0			LIMESTONE	-	2016.0
-2116.0		BASE BARLOW	LIMESTONE	-	2493.0

MAPID: 18501161000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 86' S line, 220' E line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.947342 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.26334 DATE COLLECTED:
SURFACE ELEVATION (FT.): 381.0 LOGGED (FT.): 2467.0 LOG TYPE:
SOURCE: GRAY W W WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-99.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0
-361.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	742.0
-1594.0			LIMESTONE	-	1975.0
-2086.0		BASE BARLOW	LIMESTONE	-	2467.0

MAPID: 18502200000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 2310' N line, 330' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.954827 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.267986 DATE COLLECTED:
SURFACE ELEVATION (FT.): 373.0 LOGGED (FT.): 2777.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-151.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	524.0
-372.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	745.0
-1649.0			LIMESTONE	-	2022.0
-2123.0		BASE BARLOW	LIMESTONE	-	2496.0
-2404.0	RENAULT	BASE RENAULT	LIMESTONE	-	2777.0

MAPID: 18502264000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 1294' S line, 1800' W line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.949678 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.262999 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2749.0 LOG TYPE:
SOURCE: SOHIO PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	484.0
-358.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	730.0
-1606.0			LIMESTONE	-	1978.0
-2092.0		BASE BARLOW	LIMESTONE	-	2464.0
-2377.0	RENAULT	BASE RENAULT	LIMESTONE	-	2749.0

MAPID: 18502299000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 1650' W line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.950205 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.260344 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2757.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-110.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	482.0
-362.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	734.0
-1616.0			LIMESTONE	-	1988.0
-2102.0		BASE BARLOW	LIMESTONE	-	2474.0
-2385.0	RENAULT	BASE RENAULT	LIMESTONE	-	2757.0

MAPID: 18502308000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 420' S line, 350' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.945516 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.260513 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2745.0 LOG TYPE:
SOURCE: SOHIO PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	458.0
-347.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	723.0
-1574.0			LIMESTONE	-	1950.0
-2084.0		BASE BARLOW	LIMESTONE	-	2460.0
-2369.0	RENAULT	BASE RENAULT	LIMESTONE	-	2745.0

MAPID: 18502323000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 405' S line, 355' E line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.947981 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.260513 DATE COLLECTED:

SURFACE ELEVATION (FT.): 370.0 LOGGED (FT.): 2756.0 LOG TYPE:

SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-108.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	478.0
-355.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	725.0
-1617.0			LIMESTONE	-	1987.0
-2093.0		BASE BARLOW	LIMESTONE	-	2463.0
-2386.0	RENAULT	BASE RENAULT	LIMESTONE	-	2756.0

MAPID: 18505230000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 14 QUARTERS/FOOTAGES: 1779' S line, 1844' W line of SW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.949527 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.264333 DATE COLLECTED:

SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2760.0 LOG TYPE:

SOURCE: SOHIO PETROLEUM CO. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	490.0
-359.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	735.0
-1618.0			LIMESTONE	-	1994.0
-2096.0		BASE BARLOW	LIMESTONE	-	2472.0
-2384.0	RENAULT	BASE RENAULT	LIMESTONE	-	2760.0

MAPID: 18500287000C VERSION: 1

PROJECT: NCRDS92

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.966393 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.267906 DATE COLLECTED: 0 / 0 / 1939

SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 3058.0 LOG TYPE: Drillers Log

SOURCE: LONGHORN OIL CORP 1 WELL TYPE: Dry Hole

COMMENT: NO COAL REPORTED DEEPER THAN 1201'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
372.0			SAND	101.0	0.0	SAND AND GRAVEL
271.0			LIMESTONE	2.0	101.0	
269.0			LIMESTONE	50.0	103.0	LS AND SD
219.0	BOND		SANDY SHALE	182.0	153.0	
37.0	BOND	CARTHAGE	LIMESTONE	3.0	335.0	
34.0	PATOKA		SANDSTONE	24.0	338.0	
10.0	PATOKA		SANDY SHALE	38.0	362.0	
-28.0	PATOKA		SHALE	50.0	400.0	SH AND SHELLS
-78.0	PATOKA		BLACK SHALE	20.0	450.0	
-98.0	PATOKA		GRAY SHALE	30.0	470.0	
-128.0	PATOKA		SHALE	54.0	500.0	SH AND SHELLS
-182.0	SHELBURN	WEST FRANKLIN	LIMESTONE	18.0	554.0	
-200.0	SHELBURN		CALCAREOUS SHALE	37.0	572.0	
-237.0	SHELBURN		SHALE	146.0	609.0	SHALE WITH SD AND SHELLS
-383.0	SHELBURN	DANVILLE	COAL	3.0	755.0	THICKNESS IS PROBABLY NOT ACCURATE
-386.0	CARBONDALE		LIMESTONE	108.0	758.0	LS AND SHALE
-494.0	CARBONDALE		SHALE	106.0	866.0	SH AND LIME SHELLS
-600.0	CARBONDALE		LIMESTONE	4.0	972.0	
-604.0	CARBONDALE		SANDY SHALE	31.0	976.0	
-635.0	CARBONDALE		SHALE	53.0	1007.0	SHALE AND SHELLS
-688.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	10.0	1060.0	
-698.0	SPOON		SANDSTONE	35.0	1070.0	
-733.0	SPOON	SEELYVILLE	COAL	7.0	1105.0	THICKNESS IS PROBABLY NOT ACCURATE
-740.0	SPOON		SANDY SHALE	36.0	1112.0	
-776.0	SPOON		LIMESTONE	2.0	1148.0	
-778.0	SPOON		LIMESTONE	10.0	1150.0	
-788.0	SPOON		CALCAREOUS SHALE	12.0	1160.0	
-800.0	SPOON		SHALE	28.0	1172.0	SH AND LIME SHELLS
-828.0	SPOON		COAL	1.0	1200.0	THICKNESS IS PROBABLY NOT ACCURATE

MAPID: 18500287000C VERSION: 2 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.966393 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.267906 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2855.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-173.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	545.0
-418.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	790.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2250.0		BASE BARLOW	LIMESTONE	-	2622.0
-2483.0	RENAULT	BASE RENAULT	LIMESTONE	-	2855.0

MAPID: 18501138000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line
QUADRANGLE: GRAYVILLE LONGITUDE: -87.95714 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.27347 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2796.0 LOG TYPE:
SOURCE: SOHIO PETROLEUM CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-119.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	496.0
-375.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	752.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2143.0		BASE BARLOW	LIMESTONE	-	2520.0
-2419.0	RENAULT	BASE RENAULT	LIMESTONE	-	2796.0

MAPID: 18501162000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 990' S line, 990' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96177 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.269711 DATE COLLECTED:
SURFACE ELEVATION (FT.): 373.0 LOGGED (FT.): 2824.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-148.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	521.0
-387.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	760.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2178.0		BASE BARLOW	LIMESTONE	-	2551.0
-2451.0	RENAULT	BASE RENAULT	LIMESTONE	-	2824.0

MAPID: 18501230000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.968705 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.273487 DATE COLLECTED:
SURFACE ELEVATION (FT.): 373.0 LOGGED (FT.): 2624.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-155.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	528.0
-409.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	782.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2251.0		BASE BARLOW	LIMESTONE	-	2624.0

MAPID: 18501432000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.971018 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.269795 DATE COLLECTED:
SURFACE ELEVATION (FT.): 367.0 LOGGED (FT.): 2610.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-166.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	533.0
-423.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	790.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2243.0		BASE BARLOW	LIMESTONE	-	2610.0

MAPID: 18501434000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 990' N line, 330' E line of NW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.971017 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.271667 DATE COLLECTED:
SURFACE ELEVATION (FT.): 370.0 LOGGED (FT.): 786.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-154.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	524.0
-416.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	786.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	

MAPID: 18501672000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 990' E line of SE NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.968703 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.269789 DATE COLLECTED:
SURFACE ELEVATION (FT.): 369.0 LOGGED (FT.): 2620.0 LOG TYPE:
SOURCE: SKILES, C. E., INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-165.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	534.0
-413.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	782.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2251.0		BASE BARLOW	LIMESTONE	-	2620.0

MAPID: 18502149000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 990' S line, 1650' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.959461 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.262288 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2798.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-131.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	510.0
-395.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	774.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2141.0		BASE BARLOW	LIMESTONE	-	2520.0
-2419.0	RENAULT	BASE RENAULT	LIMESTONE	-	2798.0

MAPID: 18502169000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 990' N line, 990' E line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.964075 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.271658 DATE COLLECTED:
SURFACE ELEVATION (FT.): 371.0 LOGGED (FT.): 755.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-144.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	515.0
-384.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	755.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18502170000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 1650' N line, 990' W line of E2 NE

QUADRANGLE: GRAYVILLE LONGITUDE: -87.957145 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.269826 DATE COLLECTED:

SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2800.0 LOG TYPE:

SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-140.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	516.0
-378.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	754.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2142.0		BASE BARLOW	LIMESTONE	-	2518.0
-2424.0	RENAULT	BASE RENAULT	LIMESTONE	-	2800.0

MAPID: 18502184000C VERSION: 1 PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 360' S line, 330' E line of NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.966392 GEOLOGIST: BRISTOL

CONFIDENTIAL: N LATITUDE: 38.267989 DATE COLLECTED:

SURFACE ELEVATION (FT.): 370.0 LOGGED (FT.): 2612.0 LOG TYPE:

SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-181.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	551.0
-413.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	783.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2242.0		BASE BARLOW	LIMESTONE	-	2612.0

MAPID: 18502184000C VERSION: 2 PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 360' S line, 330' E line of NW

QUADRANGLE: GRAYVILLE LONGITUDE: -87.966392 GEOLOGIST: HOPKINS

CONFIDENTIAL: N LATITUDE: 38.267989 DATE COLLECTED:

SURFACE ELEVATION (FT.): 370.0 LOGGED (FT.): 2731.0 LOG TYPE: Electric Log

SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-413.0	CARBONDALE	HERRIN	COAL	4.0	783.0
-463.0	CARBONDALE	BRIAR HILL	COAL	-	833.0
-507.0	CARBONDALE	SPRINGFIELD	COAL	7.0	877.0
-590.0	CARBONDALE	HOUCHIN CREEK	COAL	-	960.0

MAPID: 18502184000C VERSION: 3

PROJECT: AVAIL

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 360' S line, 330' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.966392 GEOLOGIST: JACOBSON
CONFIDENTIAL: N LATITUDE: 38.267989 DATE COLLECTED:
SURFACE ELEVATION (FT.): 370.0 LOGGED (FT.): 1106.0 LOG TYPE: Electric Log
SOURCE: COY OIL CO WELL TYPE: Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-673.0	CARBONDALE	COLCHESTER	COAL	1.8	1043.0
-715.0	CARBONDALE	DEKOVEN	COAL	0.0	1085.0
-730.0	CARBONDALE	LOWER DEKOVEN	COAL	1.8	1100.0
-732.0	CARBONDALE	DAVIS	COAL	4.0	1102.0

MAPID: 18502680000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 990' N line, 660' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.967546 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.271663 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2613.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-140.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	512.0
-402.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	774.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2241.0		BASE BARLOW	LIMESTONE	-	2613.0

MAPID: 18502773000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96639 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.273483 DATE COLLECTED:
SURFACE ELEVATION (FT.): 370.0 LOGGED (FT.): 2844.0 LOG TYPE:
SOURCE: SKILES OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-147.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	517.0
-396.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	766.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2234.0		BASE BARLOW	LIMESTONE	-	2604.0
-2474.0	RENAULT	BASE RENAULT	LIMESTONE	-	2844.0

MAPID: 18502898000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 485' S line, 185' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.964592 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.260926 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2830.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-146.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	526.0
-402.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	782.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2170.0		BASE BARLOW	LIMESTONE	-	2550.0
-2450.0	RENAULT	BASE RENAULT	LIMESTONE	-	2830.0

MAPID: 18504949000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.961765 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.26048 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2812.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-131.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	510.0
-389.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	768.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2157.0		BASE BARLOW	LIMESTONE	-	2536.0
-2433.0	RENAULT	BASE RENAULT	LIMESTONE	-	2812.0

MAPID: 18504953000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 1650' S line, 990' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.961771 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.264125 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2546.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-148.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	525.0
-396.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	773.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2169.0		BASE BARLOW	LIMESTONE	-	2546.0

MAPID: 18504954000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 1650' S line, 330' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.964082 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.264139 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 781.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-151.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	528.0
-404.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	781.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	

MAPID: 18504955000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 1650' S line, 1650' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.95946 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.26411 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2805.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-141.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	518.0
-395.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	772.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2152.0		BASE BARLOW	LIMESTONE	-	2529.0
-2428.0	RENAULT	BASE RENAULT	LIMESTONE	-	2805.0

MAPID: 18504956000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 1650' S line, 2310' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.957149 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.264096 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2800.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-133.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	510.0
-387.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	764.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2136.0		BASE BARLOW	LIMESTONE	-	2513.0
-2423.0	RENAULT	BASE RENAULT	LIMESTONE	-	2800.0

MAPID: 18504957000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 2310' S line, 1650' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.959459 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.265933 DATE COLLECTED:
SURFACE ELEVATION (FT.): 374.0 LOGGED (FT.): 2807.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-143.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	517.0
-396.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	770.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2176.0		BASE BARLOW	LIMESTONE	-	2550.0
-2433.0	RENAULT	BASE RENAULT	LIMESTONE	-	2807.0

MAPID: 18504958000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 2310' S line, 330' W line of SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.964082 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.265961 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2838.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-163.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	540.0
-408.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	785.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-		BASE BARLOW	LIMESTONE	-	
-2461.0	RENAULT	BASE RENAULT	LIMESTONE	-	2838.0

MAPID: 18504962000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.961766 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.273477 DATE COLLECTED:
SURFACE ELEVATION (FT.): 372.0 LOGGED (FT.): 2816.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-136.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	508.0
-384.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	756.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2176.0		BASE BARLOW	LIMESTONE	-	2548.0
-2444.0	RENAULT	BASE RENAULT	LIMESTONE	-	2816.0

MAPID: 18504963000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 990' N line, 330' E line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.961764 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.271654 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2822.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-137.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	512.0
-390.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	765.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2175.0		BASE BARLOW	LIMESTONE	-	2550.0
-2447.0	RENAULT	BASE RENAULT	LIMESTONE	-	2822.0

MAPID: 18505559000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 15 QUARTERS/FOOTAGES: 660' S line, 990' W line of SE SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.957145 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.261362 DATE COLLECTED:
SURFACE ELEVATION (FT.): 378.0 LOGGED (FT.): 755.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	505.0
-377.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	755.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18501510000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 990' S line, 1650' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.978167 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.269757 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 2900.0 LOG TYPE:
SOURCE: ASHLAND OIL&REF. CO. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
18.0	BOND	CARTHAGE	LIMESTONE	-	357.0
-176.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	551.0
-435.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	810.0
-695.0	CARBONDALE	COLCHESTER	COAL	-	1070.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2305.0		BASE BARLOW	LIMESTONE	-	2680.0
-2525.0	RENAULT	BASE RENAULT	LIMESTONE	-	2900.0

MAPID: 18501631000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 480' S line, 330' E line of NE NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.975642 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.272041 DATE COLLECTED:
SURFACE ELEVATION (FT.): 374.0 LOGGED (FT.): 1054.0 LOG TYPE:
SOURCE: JUAN, A. DRLG. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
34.0	BOND	CARTHAGE	LIMESTONE	-	340.0
-179.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	553.0
-441.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	815.0
-680.0	CARBONDALE	COLCHESTER	COAL	-	1054.0

MAPID: 18502151000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.98757 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.266115 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2912.0 LOG TYPE:
SOURCE: BREHM, C. E. DRLG.&PROD. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
26.0	BOND	CARTHAGE	LIMESTONE	-	350.0
-166.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	542.0
-434.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	810.0
-709.0	CARBONDALE	COLCHESTER	COAL	-	1085.0
-1564.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1940.0
-2308.0		BASE BARLOW	LIMESTONE	-	2684.0
-2536.0	RENAULT	BASE RENAULT	LIMESTONE	-	2912.0

MAPID: 18502151000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.98757 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.266115 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 3075.0 LOG TYPE: Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-436.0	CARBONDALE	HERRIN	COAL	3.0	812.0
-484.0	CARBONDALE	BRIAR HILL	COAL	-	860.0
-528.0	CARBONDALE	SPRINGFIELD	COAL	7.0	904.0
-613.0	CARBONDALE	HOUCHIN CREEK	COAL	-	989.0

MAPID: 18502151000C VERSION: 3

PROJECT: AVAIL

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.98757 GEOLOGIST: CHENOWETH
CONFIDENTIAL: N LATITUDE: 38.266115 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2912.0 LOG TYPE:
SOURCE: BREHM, C. E. DRLG.&PROD. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-435.0	CARBONDALE	HERRIN	COAL	4.0	811.0
-514.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	890.0
-517.0	CARBONDALE	DYKERSBURG	SHALE	11.0	893.0
-528.0	CARBONDALE	SPRINGFIELD	COAL	6.5	904.0

MAPID: 18502920000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.980381 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.267937 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 1075.0 LOG TYPE:
SOURCE: KENDALL & DAVIS DRLG. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
15.0	BOND	CARTHAGE	LIMESTONE	-	360.0
-164.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	539.0
-425.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	800.0
-700.0	CARBONDALE	COLCHESTER	COAL	-	1075.0

MAPID: 18525959000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 937' S line, 1703' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.977981 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.269611 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 1070.0 LOG TYPE:
SOURCE: PESSINA, LOUIS A. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
27.0	BOND	CARTHAGE	LIMESTONE	-	350.0
-183.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	560.0
-433.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	810.0
-693.0	CARBONDALE	COLCHESTER	COAL	-	1070.0

MAPID: 18525967000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 16 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.982768 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.271635 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 1068.0 LOG TYPE:
SOURCE: PESSINA, LOUIS A. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
27.0	BOND	CARTHAGE	LIMESTONE	-	350.0
-185.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	562.0
-438.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	815.0
-691.0	CARBONDALE	COLCHESTER	COAL	-	1068.0

MAPID: 18505702000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.975703 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.257183 DATE COLLECTED:
SURFACE ELEVATION (FT.): 382.0 LOGGED (FT.): 2896.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-150.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	532.0
-468.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	850.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2244.0		BASE BARLOW	LIMESTONE	-	2626.0
-2514.0	RENAULT	BASE RENAULT	LIMESTONE	-	2896.0

MAPID: 18505702000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 21 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.975703 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.257183 DATE COLLECTED:
SURFACE ELEVATION (FT.): 382.0 LOGGED (FT.): 3090.0 LOG TYPE: Electric Log
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-413.0	CARBONDALE	DANVILLE	COAL	-	795.0
-468.0	CARBONDALE	HERRIN	COAL	7.0	850.0
-505.0	CARBONDALE	BRIAR HILL	COAL	-	887.0
-559.0	CARBONDALE	SPRINGFIELD	COAL	7.0	941.0
-625.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1007.0

MAPID: 18500122000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 380' S line, 960' E line of SW SE
QUADRANGLE: NEW HARMONY LONGITUDE: -87.964743 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.238994 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2750.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-118.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	494.0
-384.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	760.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2123.0		BASE BARLOW	LIMESTONE	-	2499.0
-2374.0	RENAULT	BASE RENAULT	LIMESTONE	-	2750.0

MAPID: 18500122000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 380' S line, 960' E line of SW SE
QUADRANGLE: NEW HARMONY LONGITUDE: -87.964743 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.238994 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2875.0 LOG TYPE: Electric Log
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-385.0	CARBONDALE	HERRIN	COAL	5.0	761.0
-426.0	CARBONDALE	BRIAR HILL	COAL	-	802.0
-474.0	CARBONDALE	SPRINGFIELD	COAL	6.0	850.0
-554.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0

MAPID: 18500122000C VERSION: 4

PROJECT: CONTROL

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 380' S line, 960' E line of SW SE
QUADRANGLE: NEW HARMONY LONGITUDE: -87.964743 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.238994 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2875.0 LOG TYPE: Survey Sample Study
SOURCE: LONGHORN OIL CORP 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: 18500288000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW
QUADRANGLE: NEW HARMONY **LONGITUDE:** -87.966135 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.255096 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 2827.0 **LOG TYPE:**
SOURCE: LONGHORN OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-147.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	526.0
-397.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	776.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2190.0		BASE BARLOW	LIMESTONE	-	2569.0
-2448.0	RENAULT	BASE RENAULT	LIMESTONE	-	2827.0

MAPID: 18501164000C **VERSION:** 1 **PROJECT:** CIRC 431
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 22 **QUARTERS/FOOTAGES:** 240' S line, 512' W line of SE SE
QUADRANGLE: NEW HARMONY **LONGITUDE:** -87.959597 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.238825 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 2654.0 **LOG TYPE:** Electric Log
SOURCE: LONGHORN OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-373.0	CARBONDALE	HERRIN	COAL	3.0	755.0
-415.0	CARBONDALE	BRIAR HILL	COAL	-	797.0
-458.0	CARBONDALE	SPRINGFIELD	COAL	7.0	840.0
-541.0	CARBONDALE	HOUCHIN CREEK	COAL	-	923.0

MAPID: 18501165000C **VERSION:** 1 **PROJECT:** WVFS
COUNTY: WABASH **TWP/RNG:** 3S 14W **SECTION:** 22 **QUARTERS/FOOTAGES:** 434' N line, 474' W line of SE SE
QUADRANGLE: GRAYVILLE **LONGITUDE:** -87.9596 **GEOLOGIST:** BRISTOL
CONFIDENTIAL: N **LATITUDE:** 38.242296 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 2757.0 **LOG TYPE:**
SOURCE: LONGHORN OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-136.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	518.0
-368.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	750.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2096.0		BASE BARLOW	LIMESTONE	-	2478.0
-2375.0	RENAULT	BASE RENAULT	LIMESTONE	-	2757.0

MAPID: 18501168000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 560' N line, 753' W line of NE SE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.971485 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.258083 DATE COLLECTED:
SURFACE ELEVATION (FT.): 383.0 LOGGED (FT.): 2759.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	498.0
-357.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	740.0
-1424.0	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	1807.0
-2090.0		BASE BARLOW	LIMESTONE	-	2473.0
-2376.0	RENAULT	BASE RENAULT	LIMESTONE	-	2759.0

MAPID: 18501173000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: NEW HARMONY LONGITUDE: -87.962136 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.249722 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2766.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	494.0
-376.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	755.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2108.0		BASE BARLOW	LIMESTONE	-	2487.0
-2387.0	RENAULT	BASE RENAULT	LIMESTONE	-	2766.0

MAPID: 18501174000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE
QUADRANGLE: NEW HARMONY LONGITUDE: -87.957731 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.255108 DATE COLLECTED:
SURFACE ELEVATION (FT.): 378.0 LOGGED (FT.): 2765.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-102.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0
-352.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	730.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2107.0		BASE BARLOW	LIMESTONE	-	2485.0
-2387.0	RENAULT	BASE RENAULT	LIMESTONE	-	2765.0

MAPID: 18501176000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 833' E line of NE SW
QUADRANGLE: NEW HARMONY LONGITUDE: -87.967264 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.244218 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2786.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-130.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	510.0
-400.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	780.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2150.0		BASE BARLOW	LIMESTONE	-	2530.0
-2406.0	RENAULT	BASE RENAULT	LIMESTONE	-	2786.0

MAPID: 18501178000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 430' N line, 150' E line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96507 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.247591 DATE COLLECTED:
SURFACE ELEVATION (FT.): 378.0 LOGGED (FT.): 779.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-134.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	512.0
-401.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	779.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18501179000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 857' E line of SW
QUADRANGLE: NEW HARMONY LONGITUDE: -87.967034 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.238759 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2775.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	507.0
-394.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	774.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2133.0		BASE BARLOW	LIMESTONE	-	2513.0
-2395.0	RENAULT	BASE RENAULT	LIMESTONE	-	2775.0

MAPID: 18501180000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW
QUADRANGLE: NEW HARMONY LONGITUDE: -87.965821 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.24968 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2799.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-135.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	515.0
-397.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	777.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2152.0		BASE BARLOW	LIMESTONE	-	2532.0
-2419.0	RENAULT	BASE RENAULT	LIMESTONE	-	2799.0

MAPID: 18501184000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 280' S line, 173' E line of NE SW
QUADRANGLE: NEW HARMONY LONGITUDE: -87.964952 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.244138 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2768.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	506.0
-391.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	770.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2150.0		BASE BARLOW	LIMESTONE	-	2529.0
-2389.0	RENAULT	BASE RENAULT	LIMESTONE	-	2768.0

MAPID: 18501185000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 286' E line of SW
QUADRANGLE: NEW HARMONY LONGITUDE: -87.965041 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.238843 DATE COLLECTED:
SURFACE ELEVATION (FT.): 379.0 LOGGED (FT.): 2760.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-121.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	500.0
-383.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	762.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2147.0		BASE BARLOW	LIMESTONE	-	2526.0
-2381.0	RENAULT	BASE RENAULT	LIMESTONE	-	2760.0

MAPID: 18501663000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 175' E line of SE SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.964862 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.242458 DATE COLLECTED:
SURFACE ELEVATION (FT.): 373.0 LOGGED (FT.): 2756.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-107.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	480.0
-383.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	756.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-			LIMESTONE	-	
-2132.0		BASE BARLOW	LIMESTONE	-	2505.0
-2383.0	RENAULT	BASE RENAULT	LIMESTONE	-	2756.0

MAPID: 18502189000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 5' N line, 208' E line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.965966 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.259581 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 2840.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-143.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	520.0
-409.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	786.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2183.0		BASE BARLOW	LIMESTONE	-	2560.0
-2463.0	RENAULT	BASE RENAULT	LIMESTONE	-	2840.0

MAPID: 18502644000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 385' N line, 890' E line of SW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.967666 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.247686 DATE COLLECTED:
SURFACE ELEVATION (FT.): 375.0 LOGGED (FT.): 795.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-150.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	525.0
-420.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	795.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	

MAPID: 18502774000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' E line of NE NE NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.966342 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.258685 DATE COLLECTED:
SURFACE ELEVATION (FT.): 377.0 LOGGED (FT.): 776.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-133.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	510.0
-399.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	776.0

MAPID: 18504972000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.968576 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.258699 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2636.0 LOG TYPE:
SOURCE: COY OIL, INC. WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-154.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	530.0
-424.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	800.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2260.0		BASE BARLOW	LIMESTONE	-	2636.0

MAPID: 18504977000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.964031 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.258671 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2826.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-135.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	515.0
-394.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	774.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2160.0		BASE BARLOW	LIMESTONE	-	2540.0
-2446.0	RENAULT	BASE RENAULT	LIMESTONE	-	2826.0

MAPID: 18504978000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 990' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.96172 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.258657 DATE COLLECTED:
SURFACE ELEVATION (FT.): 376.0 LOGGED (FT.): 2802.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-129.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	505.0
-388.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	764.0
-	KINKAID	BASE L KINKAID	UNCLASSIFIED	-	
-2150.0		BASE BARLOW	LIMESTONE	-	2526.0
-2426.0	RENAULT	BASE RENAULT	LIMESTONE	-	2802.0

MAPID: 18501190000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 23 QUARTERS/FOOTAGES: 150' N line, 920' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.943523 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.258901 DATE COLLECTED:
SURFACE ELEVATION (FT.): 369.0 LOGGED (FT.): 2453.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	445.0
-337.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	706.0
-1591.0			LIMESTONE	-	1960.0
-2084.0		BASE BARLOW	LIMESTONE	-	2453.0

MAPID: 18501191000C VERSION: 1 PROJECT: WVFS
COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 23 QUARTERS/FOOTAGES: 50' N line, 260' W line of NE
QUADRANGLE: GRAYVILLE LONGITUDE: -87.945831 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.25922 DATE COLLECTED:
SURFACE ELEVATION (FT.): 380.0 LOGGED (FT.): 2756.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-83.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	463.0
-340.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	720.0
-1573.0			LIMESTONE	-	1953.0
-2083.0		BASE BARLOW	LIMESTONE	-	2463.0
-2376.0	RENAULT	BASE RENAULT	LIMESTONE	-	2756.0

MAPID: 18501193000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 23 QUARTERS/FOOTAGES: 781' S line, 839' W line of NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.953045 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.254358 DATE COLLECTED:
SURFACE ELEVATION (FT.): 371.0 LOGGED (FT.): 2465.0 LOG TYPE:
SOURCE: LONGHORN OIL CORP WELL TYPE: Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	-	
-343.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	714.0
-1607.0			LIMESTONE	-	1978.0
-2094.0		BASE BARLOW	LIMESTONE	-	2465.0

MAPID: 18502775000C VERSION: 1

PROJECT: WVFS

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 23 QUARTERS/FOOTAGES: 100' S line, 190' W line of NW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.955316 GEOLOGIST: BRISTOL
CONFIDENTIAL: N LATITUDE: 38.256227 DATE COLLECTED:
SURFACE ELEVATION (FT.): 378.0 LOGGED (FT.): 2758.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-98.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	476.0
-348.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	726.0
-1602.0			LIMESTONE	-	1980.0
-2101.0		BASE BARLOW	LIMESTONE	-	2479.0
-2380.0	RENAULT	BASE RENAULT	LIMESTONE	-	2758.0

MAPID: 18502775000C VERSION: 2

PROJECT: CIRC 431

COUNTY: WABASH TWP/RNG: 3S 14W SECTION: 23 QUARTERS/FOOTAGES: 100' S line, 190' W line of NW NW
QUADRANGLE: GRAYVILLE LONGITUDE: -87.955316 GEOLOGIST: HOPKINS
CONFIDENTIAL: N LATITUDE: 38.256227 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2790.0 LOG TYPE:
SOURCE: LUBOIL-LUBIN, HERBERT WELL TYPE: Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	4.0	727.0
-	CARBONDALE	BRIAR HILL	COAL	-	765.0
-	CARBONDALE	SPRINGFIELD	COAL	5.0	806.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	910.0

MAPID: 18505011000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 3S 14W

SECTION: 23

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

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.950319

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.257328

DATE COLLECTED:

SURFACE ELEVATION (FT.): 375.0

LOGGED (FT.): 2470.0

LOG TYPE:

SOURCE: LUBOIL-LUBIN, HERBERT

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	MODESTO	WEST FRANKLIN	LIMESTONE	-		
-339.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	714.0	
-1600.0			LIMESTONE	-	1975.0	
-2095.0		BASE BARLOW	LIMESTONE	-	2470.0	

MAPID: 18505628000C

VERSION: 1

PROJECT: WVFS

COUNTY: WABASH

TWP/RNG: 3S 14W

SECTION: 23

QUARTERS/FOOTAGES: 330' N line, 1500' W line

QUADRANGLE: GRAYVILLE

LONGITUDE: -87.950731

GEOLOGIST: BRISTOL

CONFIDENTIAL: N

LATITUDE: 38.258532

DATE COLLECTED:

SURFACE ELEVATION (FT.): 385.0

LOGGED (FT.): 2765.0

LOG TYPE:

SOURCE: LUBOIL-LUBIN, HERBERT

WELL TYPE: Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	MODESTO	WEST FRANKLIN	LIMESTONE	-		
-350.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	735.0	
-1607.0			LIMESTONE	-	1992.0	
-2097.0		BASE BARLOW	LIMESTONE	-	2482.0	
-2380.0	RENAULT	BASE RENAULT	LIMESTONE	-	2765.0	