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Status Report

ILLINOIS STATE GEOLOGICAL SURVEY
PRAIRIE RESEARCH INSTITUTE

Total Records: 1175

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Bond	1175	Electric Log	571	HERRIN	1128	HERRIN COAL	1128
		Drillers Log	258	DANVILLE	298	BRERETON LIMESTONE	630
		Other Core Study	84	SPRINGFIELD	22	PIASA LIMESTONE	614

Data Summary

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

Depth and Thickness measurements in feet

Member	Lithology	Avg. Depth	Min. Depth	Max. Depth	Avg. Thk	Min. Thk	Max. Thk
CARTHAGE	LIMESTONE	**114.0**	31.0	188.0	**5.7**	4.0	8.0
NEW HAVEN	COAL	**19.9**	19.9	19.9	**1.3**	1.3	1.3
MACOUPIN	LIMESTONE	**135.2**	118.4	152.0	**1.3**	0.1	2.8
WOMAC	COAL	**120.2**	120.2	120.2	**3.3**	3.3	3.3
CHAPEL	COAL	**320.0**	320.0	320.0	**1.3**	1.3	1.3
TRIVOLI	SANDSTONE	**124.4**	124.4	124.4	**86.3**	86.3	86.3
SCOTTVILLE	LIMESTONE	**292.5**	292.5	292.5	**1.5**	1.5	1.5
LONSDALE	LIMESTONE	**304.0**	304.0	304.0	**1.7**	1.7	1.7
PIASA	LIMESTONE	**376.2**	259.1	512.0	**4.2**	0.5	14.0
DANVILLE	COAL	**393.5**	288.0	524.5	**1.5**	0.1	5.0
GALUM	LIMESTONE	**410.1**	331.8	441.0	**2.6**	0.8	5.0
ALLENBY	COAL	**361.2**	279.9	450.7	**1.2**	1.0	1.3
BANKSTON FORK	LIMESTONE	**401.9**	287.1	541.0	**7.4**	1.0	17.0
ANVIL ROCK	SANDSTONE	**410.9**	295.0	550.0	**2.4**	0.6	17.0
LAWSON	SHALE	**404.6**	295.1	534.5	**6.0**	0.7	90.0
CONANT	LIMESTONE	**411.8**	322.5	549.7	**1.3**	0.1	4.0
JAMESTOWN	COAL	**413.5**	342.3	442.0	**1.2**	0.2	2.0
BRERETON	LIMESTONE	**413.8**	298.1	554.4	**2.6**	0.3	15.2
ANNA	SHALE	**414.8**	302.1	559.6	**2.1**	0.2	6.4
ENERGY	SHALE	**376.0**	372.0	380.0	**67.7**	5.0	164.0
HERRIN	COAL	**415.8**	304.0	560.0	**5.6**	0.3	11.0
BRIAR HILL	COAL	**420.9**	420.9	420.9	**0.6**	0.6	0.6
ST. DAVID	LIMESTONE	**427.3**	400.5	475.0	**4.3**	1.0	10.0
SPRINGFIELD	COAL	**454.6**	391.9	555.0	**3.1**	0.0	8.0
HANOVER	LIMESTONE	**405.4**	400.5	410.2	**1.4**	1.3	1.6
EXCELLO	SHALE	**406.8**	401.8	411.8	**1.6**	1.4	1.8
HOUCHIN CREEK	COAL	**458.6**	392.6	540.0	**1.8**	0.2	3.0
SURVANT	COAL	**484.7**	462.0	528.1	**3.0**	2.3	3.3
MECCA QUARRY	SHALE	**524.6**	509.3	569.8	**3.4**	2.7	4.3
COLCHESTER	COAL	**553.7**	512.0	630.0	**3.2**	1.5	6.0

Coal Logs

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

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

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

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

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

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

MAPID: 00500548000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.338099 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.817152 **DATE COLLECTED:** 7 / 0 / 1952

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 453.5 **LOG TYPE:** Electric Log

SOURCE: VALTER ARNOLD **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
107.0	MODESTO	PIASA	LIMESTONE	3.5	408.0	
103.5	MODESTO		UNCLASSIFIED	4.5	411.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
99.0	CARBONDALE	DANVILLE	COAL	1.0	416.0	
98.0	CARBONDALE		UNCLASSIFIED	19.0	417.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
79.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	436.0	
72.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	443.0	
70.0	CARBONDALE		UNCLASSIFIED	2.0	445.0	SHALE ABOVE BRERETON LIMESTONE
68.0	CARBONDALE	BRERETON	LIMESTONE	1.0	447.0	
67.0	CARBONDALE	ANNA	BLACK SHALE	1.0	448.0	
66.0	CARBONDALE	HERRIN	COAL	4.5	449.0	

MAPID: 00500684000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 5 **QUARTERS/FOOTAGES:** 380' N line, 330' E line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.340463 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.827966 **DATE COLLECTED:** 4 / 0 / 1951

SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 425.0 **LOG TYPE:** Electric Log

SOURCE: BUCHMAN, JOHN B. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.5	MODESTO	PIASA	LIMESTONE	3.0	381.5	
124.5	MODESTO		UNCLASSIFIED	5.0	384.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
119.5	CARBONDALE	DANVILLE	COAL	1.0	389.5	
118.5	CARBONDALE		UNCLASSIFIED	15.0	390.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
103.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	405.5	
96.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	412.5	
93.0	CARBONDALE		UNCLASSIFIED	3.5	416.0	SHALE ABOVE BRERETON LIMESTONE
89.5	CARBONDALE	BRERETON	LIMESTONE	1.0	419.5	
88.5	CARBONDALE	ANNA	BLACK SHALE	0.5	420.5	
88.0	CARBONDALE	HERRIN	COAL	4.0	421.0	

MAPID: 00570013000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 5 **QUARTERS/FOOTAGES:** 1050' S line, 2410' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.338395 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.817304 **DATE COLLECTED:** 0 / 0 / 1952

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 1050.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 03C548 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
516.0			NO RECORD	50.0	0.0	
466.0			SANDSTONE	50.0	50.0	
416.0			SHALE	65.0	100.0	
351.0			COAL	3.0	165.0	
348.0			SANDY SHALE	112.0	168.0	
236.0			SHALE	280.0	280.0	
-44.0			SANDY SHALE	165.0	560.0	
-209.0			SHALE & SANDSTONE	30.0	725.0	
-239.0			SANDSTONE	15.0	755.0	
-254.0			SHALE	25.0	770.0	
-279.0			SANDSTONE	27.0	795.0	
-306.0			SHALE	20.0	822.0	
-326.0			LIMESTONE	11.0	842.0	
-337.0			SHALE	5.0	853.0	
-342.0			LIMESTONE	10.0	858.0	
-352.0			SHALE	182.0	868.0	

MAPID: 00500197000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** SE SE NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.361382 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.822482 **DATE COLLECTED:** 5 / 0 / 1944

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 418.0 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
118.1	MODESTO	PIASA	LIMESTONE	3.0	380.9	
115.1	MODESTO		UNCLASSIFIED	4.0	383.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
111.1	CARBONDALE	DANVILLE	COAL	1.0	387.9	
110.1	CARBONDALE		UNCLASSIFIED	12.0	388.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
98.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	400.9	
91.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	407.9	
88.8	CARBONDALE		UNCLASSIFIED	2.3	410.2	SHALE ABOVE BRERETON LIMESTONE
86.5	CARBONDALE	BRERETON	LIMESTONE	1.0	412.5	
85.5	CARBONDALE	ANNA	BLACK SHALE	0.5	413.5	
85.0	CARBONDALE	HERRIN	COAL	4.0	414.0	

MAPID: 00500197000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** SE SE NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.361382 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.822482 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 3396.0 **LOG TYPE:**

SOURCE: TEXAS CO, ENLOE E 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
86.0	CARBONDALE	HERRIN	COAL	-	413.0	

MAPID: 00500480000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** 2310' N line, 330' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.370135 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.822401 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 455.5 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.5	MODESTO	PIASA	LIMESTONE	3.5	410.5	
109.0	MODESTO		UNCLASSIFIED	3.5	414.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.5	CARBONDALE	DANVILLE	COAL	1.0	417.5	
104.5	CARBONDALE		UNCLASSIFIED	16.0	418.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
88.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	434.5	
79.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	443.5	
77.5	CARBONDALE		UNCLASSIFIED	2.0	445.5	SHALE ABOVE BRERETON LIMESTONE
75.5	CARBONDALE	BRERETON	LIMESTONE	3.0	447.5	
72.5	CARBONDALE	ANNA	BLACK SHALE	1.5	450.5	
71.0	CARBONDALE	HERRIN	COAL	3.5	452.0	

MAPID: 00500480000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** 2310' N line, 330' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.370135 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.822401 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 459.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
101.0	MODESTO		SHALE	12.0	424.0	
89.0	CARBONDALE		SHALE	3.0	436.0	
86.0	CARBONDALE		SHALE	3.0	439.0	
83.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	442.0	LOWER BENCH
79.0	CARBONDALE	LAWSON	SHALE	4.0	446.0	
75.0	CARBONDALE	BRERETON	LIMESTONE	4.0	450.0	
71.0	CARBONDALE	HERRIN	COAL	5.0	454.0	

MAPID: 00500611000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** 990' N line, 990' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.367784 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.826068 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 462.0 **LOG TYPE:** Electric Log

SOURCE: EVERHART J WILLIAM **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
109.5	MODESTO	PIASA	LIMESTONE	3.0	417.5	
106.5	MODESTO		UNCLASSIFIED	5.0	420.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
101.5	CARBONDALE	DANVILLE	COAL	1.0	425.5	
100.5	CARBONDALE		UNCLASSIFIED	17.0	426.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
83.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	443.5	
74.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	452.5	
73.0	CARBONDALE		UNCLASSIFIED	1.5	454.0	SHALE ABOVE BRERETON LIMESTONE
71.5	CARBONDALE	BRERETON	LIMESTONE	1.5	455.5	
70.0	CARBONDALE	ANNA	BLACK SHALE	1.0	457.0	
69.0	CARBONDALE	HERRIN	COAL	4.0	458.0	

MAPID: 00500980000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.363461 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.822468 **DATE COLLECTED:** 7 / 0 / 1954

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 427.5 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	MODESTO	PIASA	LIMESTONE	3.0	379.0	
124.0	MODESTO		UNCLASSIFIED	5.0	382.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
119.0	CARBONDALE		UNCLASSIFIED	16.0	387.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
103.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	403.0	
94.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	412.0	
91.0	CARBONDALE		UNCLASSIFIED	3.0	415.0	SHALE ABOVE BRERETON LIMESTONE
88.0	CARBONDALE	BRERETON	LIMESTONE	3.0	418.0	
85.0	CARBONDALE	ANNA	BLACK SHALE	2.0	421.0	
83.0	CARBONDALE	HERRIN	COAL	4.5	423.0	

MAPID: 00500982000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.361135 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.820663 **DATE COLLECTED:** 9 / 0 / 1954

SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
130.1	MODESTO	PIASA	LIMESTONE	6.0	377.9	
124.1	MODESTO		UNCLASSIFIED	5.5	383.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
118.6	CARBONDALE	DANVILLE	COAL	1.0	389.4	
117.6	CARBONDALE		UNCLASSIFIED	14.5	390.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
103.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	404.9	
96.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	411.4	
94.3	CARBONDALE		UNCLASSIFIED	2.3	413.7	SHALE ABOVE BRERETON LIMESTONE
92.0	CARBONDALE	BRERETON	LIMESTONE	3.0	416.0	
89.0	CARBONDALE	ANNA	BLACK SHALE	1.0	419.0	
88.0	CARBONDALE	HERRIN	COAL	3.0	420.0	

MAPID: 00522989000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** SE NE NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.350046 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.826212 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 456.7 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-47 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.7	451.0	

MAPID: 00500169000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.36109 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.804214 **DATE COLLECTED:** 3 / 0 / 1941

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 458.0 **LOG TYPE:** Electric Log

SOURCE: TATUM, W S **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
99.0	MODESTO	PIASA	LIMESTONE	6.0	417.0	
93.0	MODESTO		UNCLASSIFIED	4.0	423.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
89.0	CARBONDALE		UNCLASSIFIED	12.0	427.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
77.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	439.0	
71.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	445.0	
69.0	CARBONDALE		UNCLASSIFIED	2.0	447.0	SHALE ABOVE BRERETON LIMESTONE
67.0	CARBONDALE	BRERETON	LIMESTONE	2.0	449.0	
65.0	CARBONDALE	ANNA	BLACK SHALE	1.0	451.0	
64.0	CARBONDALE	HERRIN	COAL	6.0	452.0	

MAPID: 00522990000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SE SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.349916 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.802384 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 426.7 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY 5-779 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.7	421.0	

MAPID: 00570012000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 1810' S line, 260' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.349431 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.804617 **DATE COLLECTED:** 0 / 0 / 1941

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 997.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 04C169 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
505.0			NO RECORD	92.0	0.0	
413.0			SHALE & SANDSTONE	268.0	92.0	
145.0			SHALE	332.0	360.0	FOSSIL SHELLS
-187.0			COAL	4.0	692.0	
-191.0			SANDSTONE	34.0	696.0	
-225.0			SANDSTONE	130.0	730.0	FOSSIL SHELLS
-355.0			SHALE & SANDSTONE	24.0	860.0	
-379.0			SANDSTONE	113.0	884.0	

MAPID: 00500926000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** 20' S line, 50' E line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.339335 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.807146 **DATE COLLECTED:** 4 / 0 / 1962

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 427.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
120.1	MODESTO	PIASA	LIMESTONE	6.0	374.9	
114.1	MODESTO		UNCLASSIFIED	3.0	380.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
111.1	CARBONDALE	DANVILLE	COAL	1.0	383.9	
110.1	CARBONDALE		UNCLASSIFIED	23.0	384.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
87.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	407.9	
78.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	416.9	
75.8	CARBONDALE		UNCLASSIFIED	2.3	419.2	SHALE ABOVE BRERETON LIMESTONE
73.5	CARBONDALE	BRERETON	LIMESTONE	1.0	421.5	
72.5	CARBONDALE	ANNA	BLACK SHALE	0.5	422.5	
72.0	CARBONDALE	HERRIN	COAL	4.0	423.0	

MAPID: 00500167000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.288788 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.808401 **DATE COLLECTED:** 8 / 0 / 1941

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log

SOURCE: FOX & CONREY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
89.0	MODESTO	PIASA	LIMESTONE	8.0	397.0	
81.0	MODESTO		UNCLASSIFIED	7.0	405.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
74.0	CARBONDALE	DANVILLE	COAL	1.0	412.0	
73.0	CARBONDALE		UNCLASSIFIED	12.0	413.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
61.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	425.0	
53.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	433.0	
51.0	CARBONDALE		UNCLASSIFIED	2.0	435.0	SHALE ABOVE BRERETON LIMESTONE
49.0	CARBONDALE	BRERETON	LIMESTONE	2.0	437.0	
47.0	CARBONDALE	ANNA	BLACK SHALE	2.0	439.0	
45.0	CARBONDALE	HERRIN	COAL	6.0	441.0	

MAPID: 00500167000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.288788 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.808401 **DATE COLLECTED:** 0 / 0 / 1941

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1389.0 **LOG TYPE:**

SOURCE: FOX&CONREY, BUCHELE 2 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
348.0	BOND	CARTHAGE	LIMESTONE	-	138.0	
44.0	CARBONDALE	HERRIN	COAL	-	442.0	

MAPID: 00500389000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 11 **QUARTERS/FOOTAGES:** 515' S line, 366' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.274804 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.801768 **DATE COLLECTED:** 11 / 0 / 1955

SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Electric Log

SOURCE: GOAD E E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
60.0	MODESTO	PIASA	LIMESTONE	2.0	402.0	
58.0	MODESTO		UNCLASSIFIED	6.0	404.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
52.0	CARBONDALE	DANVILLE	COAL	1.0	410.0	
51.0	CARBONDALE		UNCLASSIFIED	18.0	411.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
33.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	429.0	
24.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	438.0	
21.0	CARBONDALE		UNCLASSIFIED	3.0	441.0	SHALE ABOVE BRERETON LIMESTONE
18.0	CARBONDALE	BRERETON	LIMESTONE	1.0	444.0	
17.0	CARBONDALE	ANNA	BLACK SHALE	2.0	445.0	
15.0	CARBONDALE	HERRIN	COAL	5.0	447.0	

MAPID: 00500983000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.281707 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.801185 **DATE COLLECTED:** 8 / 0 / 1950

SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 474.0 **LOG TYPE:** Electric Log

SOURCE: D & S DRLG CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
20.0	CARBONDALE	HERRIN	COAL	6.0	468.0	

MAPID: 00500115000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 13 **QUARTERS/FOOTAGES:** 300' N line, 200' W line of NE NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.268126 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.799552 **DATE COLLECTED:** 0 / 0 / 1939

SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 470.0 **LOG TYPE:** Drillers Log

SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
66.0	MODESTO	PIASA	LIMESTONE	7.0	414.0	
59.0	MODESTO		UNCLASSIFIED	7.0	421.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
52.0	CARBONDALE		UNCLASSIFIED	18.0	428.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
34.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	446.0	
25.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	455.0	
23.0	CARBONDALE		UNCLASSIFIED	1.5	457.0	SHALE ABOVE BRERETON LIMESTONE
21.5	CARBONDALE	BRERETON	LIMESTONE	1.5	458.5	
20.0	CARBONDALE	ANNA	BLACK SHALE	3.0	460.0	
17.0	CARBONDALE	HERRIN	COAL	7.0	463.0	

MAPID: 00500494000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.293383 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.799244 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 461.0 **LOG TYPE:** Electric Log

SOURCE: GALLAGHER, VICTOR R. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
72.0	MODESTO	PIASA	LIMESTONE	4.5	410.0	
67.5	MODESTO		UNCLASSIFIED	4.5	414.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
63.0	CARBONDALE	DANVILLE	COAL	1.0	419.0	
62.0	CARBONDALE		UNCLASSIFIED	22.0	420.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
40.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	442.0	
34.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	448.0	
32.0	CARBONDALE		UNCLASSIFIED	2.0	450.0	SHALE ABOVE BRERETON LIMESTONE
30.0	CARBONDALE	BRERETON	LIMESTONE	1.0	452.0	
29.0	CARBONDALE	ANNA	BLACK SHALE	3.0	453.0	
26.0	CARBONDALE	HERRIN	COAL	5.0	456.0	

MAPID: 00500202000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 2310' S line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.312066 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.791846 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1328.0 **LOG TYPE:**

SOURCE: CONREY T M, WILDI 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
376.0	BOND	CARTHAGE	LIMESTONE	-	108.0	
41.0	CARBONDALE	HERRIN	COAL	-	443.0	

MAPID: 00500202000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 2310' S line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.312066 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.791846 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
82.0	MODESTO	PIASA	LIMESTONE	6.0	400.0	
76.0	MODESTO		SHALE	12.0	406.0	
64.0	CARBONDALE		SHALE	3.0	418.0	
61.0	CARBONDALE		SHALE	5.0	421.0	
56.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	426.0	LOWER BENCH
52.0	CARBONDALE	LAWSON	SHALE	6.0	430.0	
46.0	CARBONDALE	BRERETON	LIMESTONE	7.0	436.0	
39.0	CARBONDALE	HERRIN	COAL	4.0	443.0	

MAPID: 00500202000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 2310' S line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.312066 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.791846 **DATE COLLECTED:** 7 / 0 / 1944

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 445.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
85.0	MODESTO	PIASA	LIMESTONE	8.5	397.0	
76.5	MODESTO		UNCLASSIFIED	4.0	405.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
72.5	CARBONDALE		UNCLASSIFIED	14.0	409.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
58.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	423.5	
54.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	427.5	
50.5	CARBONDALE		UNCLASSIFIED	4.0	431.5	SHALE ABOVE BRERETON LIMESTONE
46.5	CARBONDALE	BRERETON	LIMESTONE	4.0	435.5	
42.5	CARBONDALE	ANNA	BLACK SHALE	1.5	439.5	
41.0	CARBONDALE	HERRIN	COAL	4.0	441.0	

MAPID: 00500547000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.34482 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.793338 **DATE COLLECTED:** 12 / 0 / 1954

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 439.0 **LOG TYPE:** Electric Log

SOURCE: A. A. DRILLING CO. **WELL TYPE:** Producer-Gas

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
111.6	MODESTO	PIASA	LIMESTONE	4.0	393.4	
107.6	MODESTO		UNCLASSIFIED	3.0	397.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.6	CARBONDALE	DANVILLE	COAL	1.0	400.4	
103.6	CARBONDALE		UNCLASSIFIED	15.5	401.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
88.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	416.9	
82.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	422.9	
78.8	CARBONDALE		UNCLASSIFIED	3.3	426.2	SHALE ABOVE BRERETON LIMESTONE
75.5	CARBONDALE	BRERETON	LIMESTONE	1.5	429.5	
74.0	CARBONDALE	ANNA	BLACK SHALE	1.0	431.0	
73.0	CARBONDALE	HERRIN	COAL	7.0	432.0	

MAPID: 00500685000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 2310' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.337805 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.798895 **DATE COLLECTED:** 6 / 0 / 1949

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 421.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	MODESTO	PIASA	LIMESTONE	5.0	370.0	
120.0	MODESTO		UNCLASSIFIED	3.0	375.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
117.0	CARBONDALE	DANVILLE	COAL	1.0	378.0	
116.0	CARBONDALE		UNCLASSIFIED	19.0	379.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
97.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	398.0	
91.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	404.0	
87.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	408.0	
86.0	CARBONDALE		UNCLASSIFIED	3.0	409.0	SHALE ABOVE BRERETON LIMESTONE
83.0	CARBONDALE	BRERETON	LIMESTONE	4.0	412.0	
79.0	CARBONDALE	ANNA	BLACK SHALE	1.0	416.0	
78.0	CARBONDALE	HERRIN	COAL	4.0	417.0	

MAPID: 00500685000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 2310' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.337805 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.798895 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 421.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO		SHALE	12.0	376.0	
107.0	CARBONDALE		SHALE	4.0	388.0	
103.0	CARBONDALE		SHALE	6.0	392.0	
97.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	398.0	LOWER BENCH
92.0	CARBONDALE	LAWSON	SHALE	5.0	403.0	
87.0	CARBONDALE	BRERETON	LIMESTONE	8.0	408.0	
79.0	CARBONDALE	HERRIN	COAL	5.0	416.0	

MAPID: 00500695000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.344848 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.795144 **DATE COLLECTED:** 4 / 0 / 1963

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 421.0 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Producer-Gas

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
124.0	MODESTO	PIASA	LIMESTONE	3.5	375.0	
120.5	MODESTO		UNCLASSIFIED	3.5	378.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
117.0	CARBONDALE	DANVILLE	COAL	1.0	382.0	
116.0	CARBONDALE		UNCLASSIFIED	18.0	383.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
98.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	401.0	
93.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	406.0	
91.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	408.0	
90.0	CARBONDALE		UNCLASSIFIED	4.0	409.0	SHALE ABOVE BRERETON LIMESTONE
86.0	CARBONDALE	BRERETON	LIMESTONE	1.5	413.0	
84.5	CARBONDALE	ANNA	BLACK SHALE	1.5	414.5	
83.0	CARBONDALE	HERRIN	COAL	5.0	416.0	

MAPID: 00500710000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.347211 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.795106 **DATE COLLECTED:** 10 / 0 / 1951

SURFACE ELEVATION (FT.): 498.0 **LOGGED (FT.):** 420.5 **LOG TYPE:** Electric Log

SOURCE: EVERHART J WILLIAM **WELL TYPE:** Producer-Gas

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.5	MODESTO	PIASA	LIMESTONE	5.5	374.5	
118.0	MODESTO		UNCLASSIFIED	2.5	380.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
115.5	CARBONDALE	DANVILLE	COAL	1.0	382.5	
114.5	CARBONDALE		UNCLASSIFIED	17.5	383.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
97.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	401.0	
92.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	406.0	
89.5	CARBONDALE		UNCLASSIFIED	2.5	408.5	SHALE ABOVE BRERETON LIMESTONE
87.0	CARBONDALE	BRERETON	LIMESTONE	4.0	411.0	
83.0	CARBONDALE	ANNA	BLACK SHALE	1.0	415.0	
82.0	CARBONDALE	HERRIN	COAL	4.5	416.0	

MAPID: 00500925000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 990' N line, 990' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.344914 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.796947 **DATE COLLECTED:** 4 / 0 / 1962

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 405.5 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
138.5	MODESTO	PIASA	LIMESTONE	4.0	361.5	
134.5	MODESTO		UNCLASSIFIED	3.0	365.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.5	CARBONDALE	DANVILLE	COAL	1.0	368.5	
130.5	CARBONDALE		UNCLASSIFIED	19.0	369.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
111.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.5	388.5	
107.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	393.0	
104.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	395.5	
103.5	CARBONDALE		UNCLASSIFIED	1.0	396.5	SHALE ABOVE BRERETON LIMESTONE
102.5	CARBONDALE	BRERETON	LIMESTONE	1.0	397.5	
101.5	CARBONDALE	ANNA	BLACK SHALE	1.5	398.5	
100.0	CARBONDALE	HERRIN	COAL	5.5	400.0	

MAPID: 00500928000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 990' N line, 1650' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.342586 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.796988 **DATE COLLECTED:** 5 / 0 / 1962

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.0	MODESTO	PIASA	LIMESTONE	3.5	368.0	
129.5	MODESTO		UNCLASSIFIED	2.0	371.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
127.5	CARBONDALE	DANVILLE	COAL	1.5	373.5	
126.0	CARBONDALE		UNCLASSIFIED	19.0	375.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
107.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	394.0	
101.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	400.0	
98.5	CARBONDALE		UNCLASSIFIED	2.5	402.5	SHALE ABOVE BRERETON LIMESTONE
96.0	CARBONDALE	BRERETON	LIMESTONE	1.0	405.0	
95.0	CARBONDALE	ANNA	BLACK SHALE	2.0	406.0	
93.0	CARBONDALE	HERRIN	COAL	5.0	408.0	

MAPID: 00500929000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 950' S line, 1590' W line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.342767 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.795078 **DATE COLLECTED:** 5 / 0 / 1962

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 420.5 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
124.5	MODESTO	PIASA	LIMESTONE	4.0	374.5	
120.5	MODESTO		UNCLASSIFIED	3.0	378.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
117.5	CARBONDALE	DANVILLE	COAL	1.5	381.5	
116.0	CARBONDALE		UNCLASSIFIED	18.5	383.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
97.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	401.5	
92.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	406.5	
89.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	409.5	
88.5	CARBONDALE		UNCLASSIFIED	3.0	410.5	SHALE ABOVE BRERETON LIMESTONE
85.5	CARBONDALE	BRERETON	LIMESTONE	1.0	413.5	
84.5	CARBONDALE	ANNA	BLACK SHALE	1.5	414.5	
83.0	CARBONDALE	HERRIN	COAL	4.5	416.0	

MAPID: 00500943000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 2750' S line, 150' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.347806 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.792732 **DATE COLLECTED:** 6 / 0 / 1962

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 435.5 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
118.0	MODESTO	PIASA	LIMESTONE	5.0	387.0	
113.0	MODESTO		UNCLASSIFIED	4.0	392.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
109.0	CARBONDALE	DANVILLE	COAL	1.0	396.0	
108.0	CARBONDALE		UNCLASSIFIED	15.0	397.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
93.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	412.0	
87.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	418.0	
83.0	CARBONDALE		UNCLASSIFIED	4.0	422.0	SHALE ABOVE BRERETON LIMESTONE
79.0	CARBONDALE	BRERETON	LIMESTONE	3.0	426.0	
76.0	CARBONDALE	ANNA	BLACK SHALE	2.0	429.0	
74.0	CARBONDALE	HERRIN	COAL	4.5	431.0	

MAPID: 00500948000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.342495 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.793368 **DATE COLLECTED:** 8 / 0 / 1962

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	MODESTO	PIASA	LIMESTONE	4.0	379.0	
123.0	MODESTO		UNCLASSIFIED	6.0	383.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
117.0	CARBONDALE	DANVILLE	COAL	1.0	389.0	
116.0	CARBONDALE		UNCLASSIFIED	18.0	390.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
98.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	408.0	
93.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	413.0	
90.5	CARBONDALE		UNCLASSIFIED	2.5	415.5	SHALE ABOVE BRERETON LIMESTONE
88.0	CARBONDALE	BRERETON	LIMESTONE	1.5	418.0	
86.5	CARBONDALE	ANNA	BLACK SHALE	0.5	419.5	
86.0	CARBONDALE	HERRIN	COAL	4.0	420.0	

MAPID: 00500949000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.340159 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.795209 **DATE COLLECTED:** 8 / 0 / 1962

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	MODESTO	PIASA	LIMESTONE	4.0	374.0	
121.0	MODESTO		UNCLASSIFIED	8.0	378.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
113.0	CARBONDALE	DANVILLE	COAL	1.5	386.0	
111.5	CARBONDALE		UNCLASSIFIED	15.5	387.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	403.0	
88.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	411.0	
85.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	414.0	
84.0	CARBONDALE		UNCLASSIFIED	1.5	415.0	SHALE ABOVE BRERETON LIMESTONE
82.5	CARBONDALE	BRERETON	LIMESTONE	1.0	416.5	
81.5	CARBONDALE	ANNA	BLACK SHALE	1.5	417.5	
80.0	CARBONDALE	HERRIN	COAL	4.0	419.0	

MAPID: 00500950000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.340187 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.797032 **DATE COLLECTED:** 8 / 0 / 1962

SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 426.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
132.0	MODESTO	PIASA	LIMESTONE	3.0	378.0	
129.0	MODESTO		UNCLASSIFIED	5.5	381.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
123.5	CARBONDALE	DANVILLE	COAL	1.5	386.5	
122.0	CARBONDALE		UNCLASSIFIED	20.0	388.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
102.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	408.0	
96.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	414.0	
94.0	CARBONDALE		UNCLASSIFIED	2.0	416.0	SHALE ABOVE BRERETON LIMESTONE
92.0	CARBONDALE	BRERETON	LIMESTONE	2.0	418.0	
90.0	CARBONDALE	ANNA	BLACK SHALE	2.0	420.0	
88.0	CARBONDALE	HERRIN	COAL	4.0	422.0	

MAPID: 00500984000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 450' N line, 15' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.329709 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.798706 **DATE COLLECTED:** 11 / 0 / 1940

SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 427.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
114.0	MODESTO	PIASA	LIMESTONE	6.0	378.0	
108.0	MODESTO		UNCLASSIFIED	6.0	384.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
102.0	CARBONDALE	DANVILLE	COAL	1.0	390.0	
101.0	CARBONDALE		UNCLASSIFIED	15.0	391.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
86.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	406.0	
80.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	412.0	
78.0	CARBONDALE		UNCLASSIFIED	2.0	414.0	SHALE ABOVE BRERETON LIMESTONE
76.0	CARBONDALE	BRERETON	LIMESTONE	4.0	416.0	
72.0	CARBONDALE	ANNA	BLACK SHALE	3.0	420.0	
69.0	CARBONDALE	HERRIN	COAL	4.0	423.0	

MAPID: 00501215000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 0' S line, 1061' W line of NW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.344648 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.796058 **DATE COLLECTED:** 5 / 0 / 1965

SURFACE ELEVATION (FT.): 498.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.0	MODESTO	PIASA	LIMESTONE	4.0	365.0	
129.0	MODESTO		UNCLASSIFIED	2.0	369.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
127.0	CARBONDALE	DANVILLE	COAL	1.0	371.0	
126.0	CARBONDALE		UNCLASSIFIED	19.0	372.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
107.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	391.0	
100.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	397.5	
98.5	CARBONDALE		UNCLASSIFIED	2.0	399.5	SHALE ABOVE BRERETON LIMESTONE
96.5	CARBONDALE	BRERETON	LIMESTONE	1.5	401.5	
95.0	CARBONDALE	ANNA	BLACK SHALE	3.0	403.0	
92.0	CARBONDALE	HERRIN	COAL	4.0	406.0	

MAPID: 00500424000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.366822 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.795075 **DATE COLLECTED:** 4 / 0 / 1956

SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 513.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
88.0	MODESTO	PIASA	LIMESTONE	3.0	419.0	
85.0	MODESTO		UNCLASSIFIED	4.0	422.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
81.0	CARBONDALE		UNCLASSIFIED	13.0	426.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
68.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	439.0	
63.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	444.0	
59.0	CARBONDALE	CONANT	UNCLASSIFIED	2.0	448.0	
57.0	CARBONDALE		UNCLASSIFIED	3.0	450.0	SHALE ABOVE BRERETON LIMESTONE
54.0	CARBONDALE	BRERETON	LIMESTONE	3.0	453.0	
51.0	CARBONDALE	ANNA	BLACK SHALE	4.0	456.0	
47.0	CARBONDALE	HERRIN	COAL	6.0	460.0	

MAPID: 00500427000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.361061 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.793249 **DATE COLLECTED:** 4 / 0 / 1956

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

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.5		
-	MODESTO		UNCLASSIFIED	1.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	11.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5		
-	CARBONDALE	CONANT	UNCLASSIFIED	0.5		
-	CARBONDALE		UNCLASSIFIED	5.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	4.0		ELEVATION OF HERRIN = 64

MAPID: 00500546000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2310' S line, 2310' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.356462 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.791449 **DATE COLLECTED:** 11 / 0 / 1954

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 432.0 **LOG TYPE:** Electric Log

SOURCE: MONKEN, LELAND **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
115.0	MODESTO	PIASA	LIMESTONE	7.5	385.0	
107.5	MODESTO		UNCLASSIFIED	2.5	392.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.0	CARBONDALE	DANVILLE	COAL	1.0	395.0	
104.0	CARBONDALE		UNCLASSIFIED	18.0	396.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
86.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	414.0	
79.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	421.0	
77.0	CARBONDALE		UNCLASSIFIED	2.0	423.0	SHALE ABOVE BRERETON LIMESTONE
75.0	CARBONDALE	BRERETON	LIMESTONE	1.0	425.0	
74.0	CARBONDALE	ANNA	BLACK SHALE	1.0	426.0	
73.0	CARBONDALE	HERRIN	COAL	5.0	427.0	

MAPID: 00500546000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2310' S line, 2310' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.356462 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.791449 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 431.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.0	MODESTO	PIASA	LIMESTONE	5.0	388.0	
107.0	MODESTO		SHALE	13.0	393.0	
94.0	CARBONDALE	DANVILLE	COAL	2.0	406.0	
92.0	CARBONDALE		SHALE	8.0	408.0	
84.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	416.0	
78.0	CARBONDALE	LAWSON	SHALE	4.0	422.0	
74.0	CARBONDALE	BRERETON	LIMESTONE	1.0	426.0	
73.0	CARBONDALE	ANNA	SHALE	1.5	427.0	
73.0	CARBONDALE	HERRIN	COAL	4.5	427.0	

MAPID: 00500958000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 2310' E line of SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.368042 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.785894 **DATE COLLECTED:** 1 / 0 / 1963

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 407.5 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.0	MODESTO	PIASA	LIMESTONE	5.0	363.0	
132.0	MODESTO		UNCLASSIFIED	3.0	368.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
129.0	CARBONDALE	DANVILLE	COAL	1.0	371.0	
128.0	CARBONDALE		UNCLASSIFIED	15.0	372.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	387.0	
107.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	393.0	
105.0	CARBONDALE		UNCLASSIFIED	2.0	395.0	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	2.0	397.0	
101.0	CARBONDALE	ANNA	BLACK SHALE	3.0	399.0	
98.0	CARBONDALE	HERRIN	COAL	5.5	402.0	

MAPID: 00500985000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.365658 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.791379 **DATE COLLECTED:** 10 / 0 / 1951

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

SOURCE: EVERHART J WILLIAM **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	5.5		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	17.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0		
-	CARBONDALE		UNCLASSIFIED	3.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	1.0		
-	CARBONDALE	HERRIN	COAL	6.5		ELEVATION OF HERRIN = 81

MAPID: 00500986000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.361062 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.791426 **DATE COLLECTED:** 9 / 0 / 1951

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 443.0 **LOG TYPE:** Electric Log

SOURCE: EVERHART J WILLIAM **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
102.0	MODESTO	PIASA	LIMESTONE	3.0	403.0	
99.0	MODESTO		UNCLASSIFIED	4.5	406.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
94.5	CARBONDALE	DANVILLE	COAL	1.0	410.5	
93.5	CARBONDALE		UNCLASSIFIED	11.5	411.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.5	423.0	
77.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	427.5	
75.0	CARBONDALE	CONANT	UNCLASSIFIED	2.0	430.0	
73.0	CARBONDALE		UNCLASSIFIED	2.0	432.0	SHALE ABOVE BRERETON LIMESTONE
71.0	CARBONDALE	BRERETON	LIMESTONE	2.0	434.0	
69.0	CARBONDALE	ANNA	BLACK SHALE	2.0	436.0	
67.0	CARBONDALE	HERRIN	COAL	5.0	438.0	

MAPID: 00501214000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 719' S line, 90' E line of NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.348681 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.794359 **DATE COLLECTED:** 4 / 0 / 1965

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 439.5 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.6	MODESTO	PIASA	LIMESTONE	3.0	393.4	
109.6	MODESTO		UNCLASSIFIED	3.5	396.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
106.1	CARBONDALE	DANVILLE	COAL	1.0	399.9	
105.1	CARBONDALE		UNCLASSIFIED	18.0	400.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
87.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	418.9	
80.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	425.9	
76.8	CARBONDALE		UNCLASSIFIED	3.3	429.2	SHALE ABOVE BRERETON LIMESTONE
73.5	CARBONDALE	BRERETON	LIMESTONE	1.0	432.5	
72.5	CARBONDALE	ANNA	BLACK SHALE	0.5	433.5	
72.0	CARBONDALE	HERRIN	COAL	5.5	434.0	

MAPID: 00501386000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:** 25' S line, 1400' E line of NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.353271 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.79243 **DATE COLLECTED:** 5 / 0 / 1969

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 429.5 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Observation Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
130.0	MODESTO	PIASA	LIMESTONE	6.0	375.0	
124.0	MODESTO		UNCLASSIFIED	5.0	381.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
119.0	CARBONDALE	DANVILLE	COAL	2.0	386.0	
117.0	CARBONDALE		UNCLASSIFIED	21.0	388.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	409.0	
89.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	416.0	
85.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	419.5	
84.5	CARBONDALE		UNCLASSIFIED	1.0	420.5	SHALE ABOVE BRERETON LIMESTONE
83.5	CARBONDALE	BRERETON	LIMESTONE	1.0	421.5	
82.5	CARBONDALE	ANNA	BLACK SHALE	1.5	422.5	
81.0	CARBONDALE	HERRIN	COAL	5.5	424.0	

MAPID: 00500165000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.358727 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.782319 **DATE COLLECTED:** 8 / 0 / 1940
SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: JONES, RUBYE E., ETAL **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00500203000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** 2310' N line, 990' W line
QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.368116 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.778606 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 1318.0 **LOG TYPE:**
SOURCE: MCBRIDEINC, ROBERTS J 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
94.0	CARBONDALE	HERRIN	COAL	-	396.0	

MAPID: 00500203000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** 2310' N line, 990' W line
QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.368116 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.778606 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 402.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	4.5	350.0	
135.5	MODESTO		SHALE	16.0	354.5	
119.5	CARBONDALE	DANVILLE	COAL	3.0	370.5	
116.5	CARBONDALE		SHALE	4.0	373.5	
112.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	377.5	LOWER BENCH
106.5	CARBONDALE	LAWSON	SHALE	6.0	383.5	
100.5	CARBONDALE	BRERETON	LIMESTONE	5.0	389.5	
95.5	CARBONDALE	ANNA	SHALE	1.0	394.5	
94.0	CARBONDALE	HERRIN	COAL	6.0	396.0	

MAPID: 00500203000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** 2310' N line, 990' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.368116 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.778606 **DATE COLLECTED:** 6 / 0 / 1944

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 401.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	4.0	350.0	
136.0	MODESTO		UNCLASSIFIED	8.5	354.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
127.5	CARBONDALE	DANVILLE	COAL	1.0	362.5	
126.5	CARBONDALE		UNCLASSIFIED	13.5	363.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	377.0	
106.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	384.0	
102.5	CARBONDALE		UNCLASSIFIED	3.5	387.5	SHALE ABOVE BRERETON LIMESTONE
99.0	CARBONDALE	BRERETON	LIMESTONE	4.0	391.0	
95.0	CARBONDALE	ANNA	BLACK SHALE	2.0	395.0	
93.0	CARBONDALE	HERRIN	COAL	4.0	397.0	

MAPID: 00500350000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** 990' N line, 330' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.37043 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.78223 **DATE COLLECTED:** 11 / 0 / 1955

SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 383.5 **LOG TYPE:** Electric Log

SOURCE: LOAR WARREN N JR **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
153.5	MODESTO	PIASA	LIMESTONE	5.0	340.5	
148.5	MODESTO		UNCLASSIFIED	5.5	345.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
143.0	CARBONDALE		UNCLASSIFIED	15.5	351.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	366.5	
122.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	371.5	
119.5	CARBONDALE		UNCLASSIFIED	3.0	374.5	SHALE ABOVE BRERETON LIMESTONE
116.5	CARBONDALE	BRERETON	LIMESTONE	1.0	377.5	
115.5	CARBONDALE	ANNA	BLACK SHALE	0.5	378.5	
115.0	CARBONDALE	HERRIN	COAL	4.5	379.0	

MAPID: 00570011000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** 2420' N line, 950' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.368257 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.778299 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 851.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 07C203 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
490.0			UNCLASSIFIED	370.0	0.0	
120.0			SHALE	8.0	370.0	
112.0			LIMESTONE	5.0	378.0	
107.0	SHELBURN	DANVILLE	COAL	4.0	383.0	
103.0	SHELBURN		LIMESTONE	11.0	387.0	
92.0	CARBONDALE	HERRIN	COAL	7.0	398.0	
85.0	CARBONDALE		UNCLASSIFIED	13.0	405.0	
72.0	CARBONDALE	SPRINGFIELD	COAL	8.0	418.0	UNCERTAIN CORRELATION
64.0			UNCLASSIFIED	425.0	426.0	

MAPID: 00500204000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.335316 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.784358 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 1316.0 **LOG TYPE:**

SOURCE: CONREY T M, HEDIGER E 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
369.0	BOND	CARTHAGE	LIMESTONE	-	113.0	
50.0	CARBONDALE	HERRIN	COAL	-	432.0	

MAPID: 00500204000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.335316 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.784358 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
72.0	CARBONDALE	DANVILLE	COAL	1.0	410.0	
71.0	CARBONDALE		SHALE	9.0	411.0	
62.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	420.0	
58.0	CARBONDALE	LAWSON	SHALE	5.0	424.0	
53.0	CARBONDALE	BRERETON	LIMESTONE	1.3	429.0	
51.7	CARBONDALE	ANNA	SHALE	1.8	430.3	
50.0	CARBONDALE	HERRIN	COAL	5.0	432.0	

MAPID: 00500204000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.335316 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.784358 **DATE COLLECTED:** 9 / 0 / 1946

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
93.0	MODESTO	PIASA	LIMESTONE	4.0	389.0	
89.0	MODESTO		UNCLASSIFIED	5.0	393.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
84.0	CARBONDALE	DANVILLE	COAL	2.0	398.0	
82.0	CARBONDALE		UNCLASSIFIED	20.0	400.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
62.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	420.0	
57.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	425.0	
55.0	CARBONDALE		UNCLASSIFIED	2.0	427.0	SHALE ABOVE BRERETON LIMESTONE
53.0	CARBONDALE	BRERETON	LIMESTONE	1.5	429.0	
51.5	CARBONDALE	ANNA	BLACK SHALE	1.5	430.5	
50.0	CARBONDALE	HERRIN	COAL	5.0	432.0	

MAPID: 00570006000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 280' N line, 1280' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.334014 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.784508 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 954.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 13C204 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
482.0			NO RECORD	116.0	0.0	
366.0			LIMESTONE	4.0	116.0	
362.0			SHALE	115.0	120.0	
247.0			SANDSTONE	65.0	235.0	
182.0			SHALE	60.0	300.0	
122.0			SHALE	60.0	360.0	FOSSIL SHELLS
62.0	CARBONDALE	ST. DAVID	LIMESTONE	10.0	420.0	UNCERTAIN CORRELATION
52.0			SHALE	6.0	430.0	
46.0	CARBONDALE	SPRINGFIELD	COAL	4.0	436.0	UNCERTAIN CORRELATION
42.0			SHALE	29.0	440.0	
13.0			LIMESTONE	4.0	469.0	
9.0			SANDSTONE	52.0	473.0	
-43.0			SHALE	200.0	525.0	
-243.0			SANDSTONE	35.0	725.0	
-278.0			SHALE	37.0	760.0	
-315.0			LIMESTONE	3.0	797.0	
-318.0			SANDSTONE	40.0	800.0	
-358.0			SHALE	1.0	840.0	
-359.0			SANDSTONE	19.0	841.0	
-378.0			LIMESTONE	11.0	860.0	
-389.0			SHALE & SANDSTONE	22.0	871.0	
-411.0			SHALE	19.0	893.0	
-430.0			LIMESTONE	13.0	912.0	
-443.0			SHALE	22.0	925.0	
-465.0			LIMESTONE	7.0	947.0	

MAPID: 00500153000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** 1650' S line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.293142 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.77547 **DATE COLLECTED:** 0 / 0 / 1943

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 1267.0 **LOG TYPE:**

SOURCE: LILLY L, MARTIN 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
352.0	BOND	CARTHAGE	LIMESTONE	-	126.0	
10.0	CARBONDALE	HERRIN	COAL	-	468.0	

MAPID: 00500153000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** 1650' S line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.293142 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.77547 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 475.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
60.0	MODESTO	PIASA	LIMESTONE	6.5	418.0	
53.5	MODESTO		SHALE	17.5	424.5	
36.0	CARBONDALE	DANVILLE	COAL	2.5	442.0	
33.5	CARBONDALE		SHALE	11.5	444.5	
22.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	456.0	
17.0	CARBONDALE	LAWSON	SHALE	5.5	461.0	
11.5	CARBONDALE	BRERETON	LIMESTONE	1.0	466.5	
10.5	CARBONDALE	ANNA	SHALE	2.5	467.5	
10.0	CARBONDALE	HERRIN	COAL	7.0	468.0	

MAPID: 00500153000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** 1650' S line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.293142 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.77547 **DATE COLLECTED:** 6 / 0 / 1943

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 475.0 **LOG TYPE:** Electric Log

SOURCE: LILLY LOUIS ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
62.0	MODESTO	PIASA	LIMESTONE	8.0	416.0	
54.0	MODESTO		UNCLASSIFIED	6.0	424.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
48.0	CARBONDALE	DANVILLE	COAL	1.0	430.0	
47.0	CARBONDALE		UNCLASSIFIED	23.0	431.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
24.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	454.0	
17.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	461.0	
15.0	CARBONDALE		UNCLASSIFIED	2.0	463.0	SHALE ABOVE BRERETON LIMESTONE
13.0	CARBONDALE	BRERETON	LIMESTONE	1.0	465.0	
12.0	CARBONDALE	ANNA	BLACK SHALE	3.0	466.0	
9.0	CARBONDALE	HERRIN	COAL	6.0	469.0	

MAPID: 00570010000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** 380' S line, 1615' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.297638 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.771936 **DATE COLLECTED:** 0 / 0 / 1943

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 965.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 08C153 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
478.0			NO RECORD	125.0	0.0	
353.0			LIMESTONE	8.0	125.0	
345.0			SHALE	280.0	133.0	
65.0			LIMESTONE	9.0	413.0	
56.0			SHALE	16.0	422.0	
40.0	CARBONDALE	HERRIN	COAL	6.0	438.0	
34.0			SHALE	11.0	444.0	
23.0			LIMESTONE	10.0	455.0	
13.0			SHALE & SANDSTONE	70.0	465.0	
-57.0			DARK SHALE	4.0	535.0	
-61.0			SHALE	85.0	539.0	
-146.0			LIMESTONE	6.0	624.0	
-152.0			SHALE	18.0	630.0	
-170.0			SANDSTONE	7.0	648.0	
-177.0			SANDY SHALE	89.0	655.0	
-266.0			SANDSTONE	21.0	744.0	
-287.0			SANDY SHALE	63.0	765.0	
-350.0			SANDSTONE	60.0	828.0	
-410.0			SHALE	47.0	888.0	
-457.0			SANDSTONE	11.0	935.0	
-468.0			LIMESTONE	19.0	946.0	

MAPID: 00500110000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SE NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.258086 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.7794 **DATE COLLECTED:** 0 / 0 / 1938

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 512.0 **LOG TYPE:** Drillers Log

SOURCE: LEAVITT & HOLLAND **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
30.0	MODESTO		UNCLASSIFIED	5.5	470.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
24.5	CARBONDALE		UNCLASSIFIED	14.5	475.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
10.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	490.0	
5.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	495.0	
2.0	CARBONDALE		UNCLASSIFIED	3.0	498.0	SHALE ABOVE BRERETON LIMESTONE
-1.0	CARBONDALE	BRERETON	LIMESTONE	3.0	501.0	
-4.0	CARBONDALE	ANNA	BLACK SHALE	3.0	504.0	
-7.0	CARBONDALE	HERRIN	COAL	5.0	507.0	

MAPID: 00500110000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SE NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.258086 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.7794 **DATE COLLECTED:** 0 / 0 / 1938

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 1380.0 **LOG TYPE:**

SOURCE: LEAV&HOLL, BIGGS 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-7.0	CARBONDALE	HERRIN	COAL	-	504.0	CORRELATION UNCERTAIN

MAPID: 00570009000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 24 **QUARTERS/FOOTAGES:** 860' N line, 1090' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.258482 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.783396 **DATE COLLECTED:** 0 / 0 / 1938

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 828.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 09C110 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
500.0			UNCLASSIFIED	490.0	0.0	
10.0	SHELBURN	BRERETON	LIMESTONE	5.0	490.0	
5.0	SHELBURN		SANDY SHALE	12.0	495.0	
-7.0	CARBONDALE	HERRIN	COAL	5.0	507.0	
-12.0			GREEN SHALE	3.0	512.0	
-15.0			LIMESTONE	2.0	515.0	
-17.0			SANDY SHALE	5.0	517.0	
-22.0			GREEN SHALE	13.0	522.0	
-35.0			BLACK SHALE	10.0	535.0	
-45.0			COAL	5.0	545.0	
-50.0			GREEN SHALE	30.0	550.0	
-80.0			BLACK SHALE	10.0	580.0	
-90.0			GREEN SHALE	30.0	590.0	
-120.0			BLACK SHALE	70.0	620.0	
-190.0			SANDSTONE	30.0	690.0	
-220.0			COAL	4.0	720.0	
-224.0			BLACK SHALE	6.0	724.0	
-230.0			UNCLASSIFIED	98.0	730.0	

MAPID: 00500543000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 25 **QUARTERS/FOOTAGES:** 1980' N line, 2310' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.262583 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.765691 **DATE COLLECTED:** 9 / 0 / 1952

SURFACE ELEVATION (FT.): 487.0 **LOGGED (FT.):** 513.0 **LOG TYPE:** Electric Log

SOURCE: WILSON, ARNOLD **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
28.5	MODESTO	PIASA	LIMESTONE	9.5	458.5	
19.0	MODESTO		UNCLASSIFIED	3.5	468.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
15.5	CARBONDALE	DANVILLE	COAL	1.0	471.5	
14.5	CARBONDALE		UNCLASSIFIED	20.5	472.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-6.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	493.0	
-11.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	498.0	
-15.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	502.0	
-16.0	CARBONDALE		UNCLASSIFIED	1.5	503.0	SHALE ABOVE BRERETON LIMESTONE
-17.5	CARBONDALE	BRERETON	LIMESTONE	2.5	504.5	
-20.0	CARBONDALE	ANNA	BLACK SHALE	2.0	507.0	
-22.0	CARBONDALE	HERRIN	COAL	4.0	509.0	

MAPID: 00500543000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 25 **QUARTERS/FOOTAGES:** 1980' N line, 2310' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.262583 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.765691 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 487.0 **LOGGED (FT.):** 542.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-7.0	MODESTO	PIASA	LIMESTONE	3.0	494.0	
-10.0	MODESTO		SHALE	16.0	497.0	
-26.0	CARBONDALE	DANVILLE	COAL	2.5	513.0	
-28.5	CARBONDALE		SHALE	5.0	515.5	
-33.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	520.5	LOWER BENCH
-39.5	CARBONDALE	LAWSON	SHALE	6.0	526.5	
-45.5	CARBONDALE	BRERETON	LIMESTONE	3.0	532.5	
-48.5	CARBONDALE	ANNA	SHALE	1.0	535.5	
-50.0	CARBONDALE	HERRIN	COAL	5.5	537.0	

MAPID: 00500205000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.27891 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.770091 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1352.0 **LOG TYPE:**

SOURCE: DORAN PAUL, DIECKMAN 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
344.0	BOND	CARTHAGE	LIMESTONE	-	131.0	
23.0	CARBONDALE	HERRIN	COAL	-	452.0	

MAPID: 00500205000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.27891 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.770091 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 459.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
83.0	MODESTO	PIASA	LIMESTONE	4.0	406.0	
79.0	MODESTO		SHALE	16.0	410.0	
63.0	CARBONDALE	DANVILLE	COAL	2.0	426.0	
61.0	CARBONDALE		SHALE	4.0	428.0	
57.0	CARBONDALE	BANKSTON FORK	SHALE	5.0	432.0	LOWER BENCH
52.0	CARBONDALE	LAWSON	SHALE	5.0	437.0	
47.0	CARBONDALE	BRERETON	LIMESTONE	5.5	442.0	
41.5	CARBONDALE	ANNA	SHALE	1.0	447.5	
35.0	CARBONDALE	HERRIN	COAL	5.5	454.0	

MAPID: 00500205000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.27891 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.770091 **DATE COLLECTED:** 5 / 0 / 1946

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 459.0 **LOG TYPE:** Electric Log

SOURCE: DORAN PAUL EST **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
83.0	MODESTO	PIASA	LIMESTONE	8.0	406.0	
75.0	MODESTO		UNCLASSIFIED	6.5	414.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
68.5	CARBONDALE	DANVILLE	COAL	1.0	420.5	
67.5	CARBONDALE		UNCLASSIFIED	15.5	421.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
52.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	437.0	
46.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	443.0	
44.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	445.0	
43.0	CARBONDALE		UNCLASSIFIED	3.0	446.0	SHALE ABOVE BRERETON LIMESTONE
40.0	CARBONDALE	BRERETON	LIMESTONE	4.0	449.0	
36.0	CARBONDALE	ANNA	BLACK SHALE	2.0	453.0	
34.0	CARBONDALE	HERRIN	COAL	4.0	455.0	

MAPID: 00570008000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 220' N line, 1650' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.278913 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.770395 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 935.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 10C205 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
489.0			NO RECORD	135.0	0.0	
354.0			LIMESTONE	10.0	135.0	
344.0			SHALE	227.0	145.0	
117.0	SHELBURN		SANDSTONE	25.0	372.0	
92.0	SHELBURN		LIMESTONE	16.0	397.0	
76.0	SHELBURN	DANVILLE	COAL	4.0	413.0	UNCERTAIN CORRELATION
72.0	SHELBURN		SANDSTONE	46.0	417.0	
26.0			SHALE	99.0	463.0	FOSSIL SHELLS
-73.0			SHALE & SANDSTONE	181.0	562.0	
-254.0			SANDSTONE	72.0	743.0	
-326.0			LIMESTONE	120.0	815.0	

MAPID: 00500544000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 2310' N line, 1650' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.32351 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.764433 **DATE COLLECTED:** 4 / 0 / 1954

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 409.0 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.0	MODESTO	PIASA	LIMESTONE	4.0	366.0	
108.0	MODESTO		UNCLASSIFIED	3.0	370.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.0	CARBONDALE		UNCLASSIFIED	14.0	373.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
91.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	387.0	
86.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	392.0	
83.5	CARBONDALE	CONANT	UNCLASSIFIED	1.5	394.5	
82.0	CARBONDALE		UNCLASSIFIED	4.0	396.0	SHALE ABOVE BRERETON LIMESTONE
78.0	CARBONDALE	BRERETON	LIMESTONE	4.0	400.0	
74.0	CARBONDALE	ANNA	BLACK SHALE	1.0	404.0	
73.0	CARBONDALE	HERRIN	COAL	4.0	405.0	

MAPID: 00500544000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 2310' N line, 1650' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.32351 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.764433 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.0	MODESTO	PIASA	LIMESTONE	4.0	363.0	
111.0	MODESTO		SHALE	11.0	367.0	
100.0	CARBONDALE	DANVILLE	COAL	3.0	378.0	
97.0	CARBONDALE		SHALE	2.5	381.0	
94.5	CARBONDALE	BANKSTON FORK	SHALE	5.5	383.5	LOWER BENCH
89.0	CARBONDALE	LAWSON	SHALE	5.5	389.0	
83.5	CARBONDALE	BRERETON	LIMESTONE	6.0	394.5	
76.0	CARBONDALE	HERRIN	COAL	4.0	402.0	

MAPID: 00500077000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.337561 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.769801 **DATE COLLECTED:** 8 / 0 / 1911
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 490.0 **LOG TYPE:** Drillers Log
SOURCE: KINNEY BRICE **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-11.0	CARBONDALE	HERRIN	COAL	5.0	485.0	

MAPID: 00500077000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.337561 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.769801 **DATE COLLECTED:** 0 / 0 / 1911
SURFACE ELEVATION (FT.): 473.8 **LOGGED (FT.):** 1045.0 **LOG TYPE:**
SOURCE: KINNEY B, MUNTON 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-11.2	CARBONDALE	HERRIN	COAL	-	485.0	CORRELATION UNCERTAIN

MAPID: 00500434000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 1650' W line
QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.342228 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.764289 **DATE COLLECTED:** 5 / 0 / 1956
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 403.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
121.1	MODESTO	PIASA	LIMESTONE	3.0	351.9	
118.1	MODESTO		UNCLASSIFIED	5.0	354.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
113.1	CARBONDALE	DANVILLE	COAL	1.5	359.9	
111.6	CARBONDALE		UNCLASSIFIED	16.0	361.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
95.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	377.4	
88.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8	384.4	
84.8	CARBONDALE		UNCLASSIFIED	3.8	388.2	SHALE ABOVE BRERETON LIMESTONE
81.0	CARBONDALE	BRERETON	LIMESTONE	4.0	392.0	
77.0	CARBONDALE	ANNA	BLACK SHALE	2.0	396.0	
75.0	CARBONDALE	HERRIN	COAL	5.0	398.0	

MAPID: 00500434000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 1650' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.342228 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.764289 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 403.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
126.0	MODESTO	PIASA	LIMESTONE	3.5	347.0	
122.5	MODESTO		SHALE	20.0	350.5	
102.5	CARBONDALE	DANVILLE	COAL	3.5	370.5	
99.0	CARBONDALE		SHALE	3.5	374.0	
95.5	CARBONDALE	BANKSTON FORK	SHALE	5.5	377.5	LOWER BENCH
90.0	CARBONDALE	LAWSON	SHALE	5.5	383.0	
84.5	CARBONDALE	BRERETON	LIMESTONE	6.0	388.5	
78.5	CARBONDALE	ANNA	SHALE	1.0	394.5	
76.0	CARBONDALE	HERRIN	COAL	6.0	397.0	

MAPID: 00570007000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 370' N line, 2110' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.336813 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.769707 **DATE COLLECTED:** 0 / 0 / 1911

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 928.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 11C77 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
474.0			NO RECORD	80.0	0.0	
394.0			COAL	4.0	80.0	
390.0			SHALE	16.0	84.0	
374.0			LIMESTONE	5.0	100.0	
369.0			SHALE	370.0	105.0	
-1.0	CARBONDALE	ST. DAVID	LIMESTONE	5.0	475.0	UNCERTAIN CORRELATION
-6.0	CARBONDALE		SHALE	5.0	480.0	
-11.0	CARBONDALE	SPRINGFIELD	COAL	5.0	485.0	UNCERTAIN CORRELATION
-16.0			SHALE	120.0	490.0	
-136.0			LIMESTONE	5.0	610.0	
-141.0			SHALE	60.0	615.0	
-201.0			SANDSTONE	40.0	675.0	
-241.0			SHALE	150.0	715.0	
-391.0			SANDSTONE	30.0	865.0	
-421.0			SHALE	33.0	895.0	

MAPID: 00500095000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.370199 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.763918 **DATE COLLECTED:** 12 / 0 / 1942

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.0	MODESTO	PIASA	LIMESTONE	4.5	345.0	
136.5	MODESTO		UNCLASSIFIED	5.5	349.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.0	CARBONDALE	DANVILLE	COAL	1.0	355.0	
130.0	CARBONDALE		UNCLASSIFIED	16.5	356.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	372.5	
108.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	378.0	
104.5	CARBONDALE		UNCLASSIFIED	3.5	381.5	SHALE ABOVE BRERETON LIMESTONE
101.0	CARBONDALE	BRERETON	LIMESTONE	1.0	385.0	
100.0	CARBONDALE	ANNA	BLACK SHALE	3.0	386.0	
97.0	CARBONDALE	HERRIN	COAL	5.0	389.0	

MAPID: 00500095000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.370199 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.763918 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1240.0 **LOG TYPE:**

SOURCE: MCBRIDEINC, KEITH A M 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
98.0	CARBONDALE	HERRIN	COAL	-	388.0	

MAPID: 00500164000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.358379 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.762231 **DATE COLLECTED:** 0 / 0 / 1938

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Drillers Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
109.0	MODESTO		UNCLASSIFIED	5.0	364.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.0	CARBONDALE		UNCLASSIFIED	13.0	369.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
91.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	382.0	
82.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	391.0	
80.0	CARBONDALE		UNCLASSIFIED	2.0	393.0	SHALE ABOVE BRERETON LIMESTONE
78.0	CARBONDALE	BRERETON	LIMESTONE	2.0	395.0	
76.0	CARBONDALE	ANNA	BLACK SHALE	3.0	397.0	
73.0	CARBONDALE	HERRIN	COAL	6.0	400.0	

MAPID: 00500206000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** SE SW SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.367268 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.756643 **DATE COLLECTED:** 6 / 0 / 1942

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
117.0	MODESTO	PIASA	LIMESTONE	8.0	357.0	
109.0	MODESTO		UNCLASSIFIED	5.0	365.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.0	CARBONDALE	DANVILLE	COAL	1.0	370.0	
103.0	CARBONDALE		UNCLASSIFIED	18.0	371.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
85.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	389.0	
77.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	397.0	
74.0	CARBONDALE		UNCLASSIFIED	3.0	400.0	SHALE ABOVE BRERETON LIMESTONE
71.0	CARBONDALE	BRERETON	LIMESTONE	3.0	403.0	
68.0	CARBONDALE	ANNA	BLACK SHALE	2.0	406.0	
66.0	CARBONDALE	HERRIN	COAL	7.0	408.0	

MAPID: 00500206000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** SE SW SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.367268 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.756643 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 1320.0 **LOG TYPE:**

SOURCE: MCBRIDEINC, FOLLETT R 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
68.0	CARBONDALE	HERRIN	COAL	-	406.0	

MAPID: 00500545000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** 990' N line, 2310' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.363506 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.767668 **DATE COLLECTED:** 4 / 0 / 1951

SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 385.5 **LOG TYPE:** Electric Log

SOURCE: LUTTRELL HOMER **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	4.0	340.0	
136.0	MODESTO		UNCLASSIFIED	3.0	344.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.0	CARBONDALE	DANVILLE	COAL	1.0	347.0	
132.0	CARBONDALE		UNCLASSIFIED	18.0	348.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
114.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	366.0	
108.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	372.0	
105.5	CARBONDALE	CONANT	UNCLASSIFIED	1.5	374.5	
104.0	CARBONDALE		UNCLASSIFIED	2.0	376.0	SHALE ABOVE BRERETON LIMESTONE
102.0	CARBONDALE	BRERETON	LIMESTONE	0.5	378.0	
101.5	CARBONDALE	ANNA	BLACK SHALE	1.5	378.5	
100.0	CARBONDALE	HERRIN	COAL	5.5	380.0	

MAPID: 00500545000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** 990' N line, 2310' W line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.363506 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.767668 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 385.8 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.0	MODESTO	PIASA	LIMESTONE	5.5	339.0	
135.5	MODESTO		SHALE	15.5	344.5	
120.0	CARBONDALE	DANVILLE	COAL	1.5	360.0	
118.5	CARBONDALE		SHALE	5.0	361.5	
113.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	366.5	
107.5	CARBONDALE	LAWSON	SHALE	6.0	372.5	
101.5	CARBONDALE	ANNA	SHALE	2.0	378.5	
100.0	CARBONDALE	HERRIN	COAL	5.8	380.0	

MAPID: 00522991000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NW SW NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.357651 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.766358 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 382.0 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY 5-808 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.0	376.0	

MAPID: 00500194000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 1151' W line of NW

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.367715 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.749358 **DATE COLLECTED:** 11 / 0 / 1943

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON B F **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.0	MODESTO	PIASA	LIMESTONE	4.0	358.0	
111.0	MODESTO		UNCLASSIFIED	6.0	362.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.0	CARBONDALE	DANVILLE	COAL	1.0	368.0	
104.0	CARBONDALE		UNCLASSIFIED	20.0	369.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
84.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	389.0	
75.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	398.0	
72.0	CARBONDALE		UNCLASSIFIED	3.0	401.0	SHALE ABOVE BRERETON LIMESTONE
69.0	CARBONDALE	BRERETON	LIMESTONE	3.0	404.0	
66.0	CARBONDALE	ANNA	BLACK SHALE	2.0	407.0	
64.0	CARBONDALE	HERRIN	COAL	6.0	409.0	

MAPID: 00500195000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 990' S line, 1151' W line of NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.367701 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.75118 **DATE COLLECTED:** 12 / 0 / 1943

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 421.5 **LOG TYPE:** Electric Log

SOURCE: THOMPSON B F **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
109.5	MODESTO	PIASA	LIMESTONE	6.0	364.5	
103.5	MODESTO		UNCLASSIFIED	8.0	370.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
95.5	CARBONDALE	DANVILLE	COAL	1.0	378.5	
94.5	CARBONDALE		UNCLASSIFIED	17.0	379.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
77.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	396.5	
69.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	404.5	
67.0	CARBONDALE		UNCLASSIFIED	2.5	407.0	SHALE ABOVE BRERETON LIMESTONE
64.5	CARBONDALE	BRERETON	LIMESTONE	1.0	409.5	
63.5	CARBONDALE	ANNA	BLACK SHALE	4.5	410.5	
59.0	CARBONDALE	HERRIN	COAL	6.5	415.0	

MAPID: 00500196000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** NW SE NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.364299 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.751209 **DATE COLLECTED:** 3 / 0 / 1944

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 404.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Service Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
122.5	MODESTO	PIASA	LIMESTONE	4.0	351.5	
118.5	MODESTO		UNCLASSIFIED	3.5	355.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
115.0	CARBONDALE	DANVILLE	COAL	1.0	359.0	
114.0	CARBONDALE		UNCLASSIFIED	17.0	360.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
97.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	377.0	
88.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	386.0	
85.0	CARBONDALE		UNCLASSIFIED	3.0	389.0	SHALE ABOVE BRERETON LIMESTONE
82.0	CARBONDALE	BRERETON	LIMESTONE	2.0	392.0	
80.0	CARBONDALE	ANNA	BLACK SHALE	4.0	394.0	
76.0	CARBONDALE	HERRIN	COAL	6.0	398.0	

MAPID: 00500196000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** NW SE NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.364299 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.751209 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 1159.0 **LOG TYPE:**

SOURCE: MCBRIDEINC, VALENTINE SWD1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
78.0	CARBONDALE	HERRIN	COAL	-	396.0	

MAPID: 00500207000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' S line, 990' W line

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.36831 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.745723 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 1310.0 **LOG TYPE:**

SOURCE: MCBRIDEINC, BUTLER D 1B **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
74.0	CARBONDALE	HERRIN	COAL	-	400.0	

MAPID: 00500207000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' S line, 990' W line

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.36831 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.745723 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
92.5	CARBONDALE	BANKSTON FORK	LIMESTONE	7.5	381.5	
85.0	CARBONDALE	LAWSON	SHALE	7.5	389.0	
77.5	CARBONDALE	BRERETON	LIMESTONE	1.5	396.5	
76.0	CARBONDALE	ANNA	BLACK SHALE	2.0	398.0	
74.0	CARBONDALE	HERRIN	COAL	6.0	400.0	

MAPID: 00500207000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' S line, 990' W line

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.36831 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.745723 **DATE COLLECTED:** 7 / 0 / 1942

SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
110.0	MODESTO	PIASA	LIMESTONE	3.0	364.0	
107.0	MODESTO		UNCLASSIFIED	3.0	367.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.0	CARBONDALE	DANVILLE	COAL	1.0	370.0	
103.0	CARBONDALE		UNCLASSIFIED	11.0	371.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
92.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	382.0	
85.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	389.0	
81.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	393.0	
80.0	CARBONDALE		UNCLASSIFIED	2.0	394.0	SHALE ABOVE BRERETON LIMESTONE
78.0	CARBONDALE	BRERETON	LIMESTONE	2.0	396.0	
76.0	CARBONDALE	ANNA	BLACK SHALE	2.0	398.0	
74.0	CARBONDALE	HERRIN	COAL	6.0	400.0	

MAPID: 00500208000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.370278 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.749333 **DATE COLLECTED:** 2 / 0 / 1944

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	6.5	354.0	
112.5	MODESTO		UNCLASSIFIED	7.5	360.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.0	CARBONDALE	DANVILLE	COAL	1.0	368.0	
104.0	CARBONDALE		UNCLASSIFIED	16.0	369.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
88.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	385.0	
80.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	393.0	
77.5	CARBONDALE		UNCLASSIFIED	2.5	395.5	SHALE ABOVE BRERETON LIMESTONE
75.0	CARBONDALE	BRERETON	LIMESTONE	1.5	398.0	
73.5	CARBONDALE	ANNA	BLACK SHALE	3.5	399.5	
70.0	CARBONDALE	HERRIN	COAL	7.0	403.0	

MAPID: 00500208000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.370278 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.749333 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:**

SOURCE: MCBRIDEINC, JACOBS V 2 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
71.0	CARBONDALE	HERRIN	COAL	-	402.0	

MAPID: 00500323000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.352588 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.742173 **DATE COLLECTED:** 10 / 0 / 1955

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

SOURCE: GOLDSCHMIDT, E J **WELL TYPE:** Plugged and/or Abandoned

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	7.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	14.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8		
-	CARBONDALE		UNCLASSIFIED	3.8		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	6.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	4.0		ELEVATION OF HERRIN = 89

MAPID: 00500467000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.358633 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.745786 **DATE COLLECTED:** 8 / 0 / 1956

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 426.0 **LOG TYPE:** Electric Log

SOURCE: GOLDSCHMIDT, E J **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	5.0	376.0	
114.0	MODESTO		UNCLASSIFIED	5.0	381.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
109.0	CARBONDALE	DANVILLE	COAL	1.0	386.0	
108.0	CARBONDALE		UNCLASSIFIED	17.0	387.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
91.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	404.0	
86.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	409.0	
82.5	CARBONDALE		UNCLASSIFIED	3.5	412.5	SHALE ABOVE BRERETON LIMESTONE
79.0	CARBONDALE	BRERETON	LIMESTONE	3.0	416.0	
76.0	CARBONDALE	ANNA	BLACK SHALE	3.0	419.0	
73.0	CARBONDALE	HERRIN	COAL	4.0	422.0	

MAPID: 00500549000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 990' N line, 2310' E line of SW

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.36794 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.745711 **DATE COLLECTED:** 5 / 0 / 1953

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Electric Log

SOURCE: EDWARDS WM E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
101.0	MODESTO	PIASA	LIMESTONE	4.0	372.0	
97.0	MODESTO		UNCLASSIFIED	4.0	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
93.0	CARBONDALE	DANVILLE	COAL	1.0	380.0	
92.0	CARBONDALE		UNCLASSIFIED	13.0	381.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
79.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	394.0	
72.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	401.0	
68.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	405.0	
67.0	CARBONDALE		UNCLASSIFIED	2.0	406.0	SHALE ABOVE BRERETON LIMESTONE
65.0	CARBONDALE	BRERETON	LIMESTONE	0.5	408.0	
64.5	CARBONDALE	ANNA	BLACK SHALE	0.5	408.5	
64.0	CARBONDALE	HERRIN	COAL	3.0	409.0	

MAPID: 00500994000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 387' S line, 1650' E line of NW

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.365631 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.749532 **DATE COLLECTED:** 6 / 0 / 1942

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
116.0	MODESTO	PIASA	LIMESTONE	4.5	357.0	
111.5	MODESTO		UNCLASSIFIED	5.5	361.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
106.0	CARBONDALE	DANVILLE	COAL	1.0	367.0	
105.0	CARBONDALE		UNCLASSIFIED	18.0	368.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
87.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	386.0	
79.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	394.0	
76.0	CARBONDALE		UNCLASSIFIED	3.0	397.0	SHALE ABOVE BRERETON LIMESTONE
73.0	CARBONDALE	BRERETON	LIMESTONE	3.0	400.0	
70.0	CARBONDALE	ANNA	BLACK SHALE	5.0	403.0	
65.0	CARBONDALE	HERRIN	COAL	5.0	408.0	

MAPID: 00500995000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of SW NW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.368269 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.751169 **DATE COLLECTED:** 2 / 0 / 1944

SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Electric Log

SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Water Injection

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
118.0	MODESTO	PIASA	LIMESTONE	5.0	355.0	
113.0	MODESTO		UNCLASSIFIED	6.0	360.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
107.0	CARBONDALE	DANVILLE	COAL	1.0	366.0	
106.0	CARBONDALE		UNCLASSIFIED	20.0	367.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
86.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	387.0	
78.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	395.0	
74.0	CARBONDALE		UNCLASSIFIED	4.0	399.0	SHALE ABOVE BRERETON LIMESTONE
70.0	CARBONDALE	BRERETON	LIMESTONE	2.0	403.0	
68.0	CARBONDALE	ANNA	BLACK SHALE	3.0	405.0	
65.0	CARBONDALE	HERRIN	COAL	7.0	408.0	

MAPID: 00500459000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW SW

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.346556 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.742214 **DATE COLLECTED:** 6 / 0 / 1956

SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 387.0 **LOG TYPE:** Electric Log

SOURCE: GOLDSCHMIDT, E J **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
130.0	MODESTO	PIASA	LIMESTONE	4.0	338.0	
126.0	MODESTO		UNCLASSIFIED	8.5	342.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
117.5	CARBONDALE	DANVILLE	COAL	1.0	350.5	
116.5	CARBONDALE		UNCLASSIFIED	14.5	351.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
102.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	366.0	
97.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	371.0	
94.0	CARBONDALE		UNCLASSIFIED	3.0	374.0	SHALE ABOVE BRERETON LIMESTONE
91.0	CARBONDALE	BRERETON	LIMESTONE	1.5	377.0	
89.5	CARBONDALE	ANNA	BLACK SHALE	3.5	378.5	
86.0	CARBONDALE	HERRIN	COAL	5.0	382.0	

MAPID: 00501312000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.3419 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.742263 **DATE COLLECTED:** 12 / 0 / 1955
SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 450.0 **LOG TYPE:** Electric Log
SOURCE: GOLDSCHMIDT, E J **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
37.0	CARBONDALE	HERRIN	COAL	5.0	445.0	

MAPID: 00500541000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 2310' N line, 990' W line
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.325679 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.749752 **DATE COLLECTED:** 2 / 0 / 1954
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Electric Log
SOURCE: HOPKINS, DALE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	6.0	365.0	
113.0	MODESTO		UNCLASSIFIED	4.0	371.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
109.0	CARBONDALE	DANVILLE	COAL	1.0	375.0	
108.0	CARBONDALE		UNCLASSIFIED	20.0	376.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
88.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	396.0	
81.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	403.0	
77.5	CARBONDALE		UNCLASSIFIED	3.5	406.5	SHALE ABOVE BRERETON LIMESTONE
74.0	CARBONDALE	BRERETON	LIMESTONE	3.5	410.0	
70.5	CARBONDALE	ANNA	BLACK SHALE	3.5	413.5	
67.0	CARBONDALE	HERRIN	COAL	5.0	417.0	

MAPID: 00500541000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 2310' N line, 990' W line
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.325679 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.749752 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 421.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	6.0	365.0	
113.0	MODESTO		SHALE	16.0	371.0	
97.0	CARBONDALE	DANVILLE	COAL	2.0	387.0	
95.0	CARBONDALE		SHALE	5.0	389.0	
90.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	394.0	LOWER BENCH
83.0	CARBONDALE	LAWSON	SHALE	7.0	401.0	
76.0	CARBONDALE	BRERETON	LIMESTONE	4.0	408.0	
72.0	CARBONDALE	ANNA	SHALE	2.5	412.0	
69.0	CARBONDALE	HERRIN	COAL	6.5	415.0	

MAPID: 00500870000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.320868 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.742517 **DATE COLLECTED:** 12 / 0 / 1953
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log
SOURCE: HOPKINS, DALE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.5	MODESTO	PIASA	LIMESTONE	6.5	353.5	
109.0	MODESTO		UNCLASSIFIED	4.5	360.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.5	CARBONDALE	DANVILLE	COAL	1.5	364.5	
103.0	CARBONDALE		UNCLASSIFIED	17.0	366.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
86.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	383.0	
79.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	390.0	
76.5	CARBONDALE		UNCLASSIFIED	2.5	392.5	SHALE ABOVE BRERETON LIMESTONE
74.0	CARBONDALE	BRERETON	LIMESTONE	2.0	395.0	
72.0	CARBONDALE	ANNA	BLACK SHALE	3.0	397.0	
69.0	CARBONDALE	HERRIN	COAL	5.0	400.0	

MAPID: 00500998000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.311543 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.748074 **DATE COLLECTED:** 9 / 0 / 1952

SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: BAKER, B. A. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.5	MODESTO	PIASA	LIMESTONE	4.0	351.5	
108.5	MODESTO		UNCLASSIFIED	7.0	355.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
101.5	CARBONDALE	DANVILLE	COAL	1.0	362.5	
100.5	CARBONDALE		UNCLASSIFIED	18.0	363.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	381.5	
76.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	387.5	
72.5	CARBONDALE	CONANT	UNCLASSIFIED	1.5	391.5	
71.0	CARBONDALE		UNCLASSIFIED	4.0	393.0	SHALE ABOVE BRERETON LIMESTONE
67.0	CARBONDALE	BRERETON	LIMESTONE	6.0	397.0	
61.0	CARBONDALE	ANNA	BLACK SHALE	2.0	403.0	
59.0	CARBONDALE	HERRIN	COAL	5.0	405.0	

MAPID: 00500999000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** NW SE SE

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.313865 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.744428 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 378.0 **LOG TYPE:** Drillers Log

SOURCE: HOPKINS, DALE 1 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	4.0	326.0	
136.0	MODESTO		UNCLASSIFIED	3.5	330.0	
132.5	CARBONDALE	DANVILLE	COAL	1.0	333.5	
131.5	CARBONDALE		UNCLASSIFIED	18.5	334.5	
113.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	353.0	
107.0	CARBONDALE	ANVIL ROCK	SANDSTONE	3.0	359.0	
104.0	CARBONDALE		SHALE	3.0	362.0	
101.0	CARBONDALE	BRERETON	LIMESTONE	4.0	365.0	
97.0	CARBONDALE	ANNA	BLACK SHALE	3.0	369.0	
94.0	CARBONDALE	HERRIN	COAL	6.0	372.0	

MAPID: 00500076000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.299842 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.748173 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 404.0 **LOG TYPE:** Drillers Log
SOURCE: BATEMAN, CHARLES B. **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
74.0	CARBONDALE	HERRIN	COAL	7.0	397.0	

MAPID: 00500076000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.299842 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.748173 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 471.4 **LOGGED (FT.):** 1003.0 **LOG TYPE:**
SOURCE: BATEMN C B, BATEMN J C 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
401.4	BOND	CARTHAGE	LIMESTONE	-	70.0	
74.4	CARBONDALE	HERRIN	COAL	-	397.0	CORRELATION UNCERTAIN

MAPID: 00500542000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 660' E line
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.293928 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.742804 **DATE COLLECTED:** 1 / 0 / 1948
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 416.0 **LOG TYPE:** Electric Log
SOURCE: HIRST H S **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
107.0	MODESTO	PIASA	LIMESTONE	4.0	366.0	
103.0	MODESTO		UNCLASSIFIED	7.0	370.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
96.0	CARBONDALE	DANVILLE	COAL	1.0	377.0	
95.0	CARBONDALE		UNCLASSIFIED	17.0	378.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
78.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	395.0	
73.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	400.0	
70.0	CARBONDALE		UNCLASSIFIED	3.0	403.0	SHALE ABOVE BRERETON LIMESTONE
67.0	CARBONDALE	BRERETON	LIMESTONE	3.0	406.0	
64.0	CARBONDALE	ANNA	BLACK SHALE	3.0	409.0	
61.0	CARBONDALE	HERRIN	COAL	4.0	412.0	

MAPID: 00500542000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 660' E line
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.293928 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.742804 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 421.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
101.0	MODESTO	PIASA	LIMESTONE	4.0	370.0	
97.0	MODESTO		SHALE	16.5	374.0	
80.5	CARBONDALE	DANVILLE	COAL	2.5	390.5	
78.0	CARBONDALE		SHALE	5.0	393.0	
73.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	398.0	
68.0	CARBONDALE	LAWSON	SHALE	9.0	403.0	
59.0	CARBONDALE	ANNA	SHALE	2.0	412.0	
56.0	CARBONDALE	HERRIN	COAL	6.0	415.0	

MAPID: 00501000000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 1650' S line, 990' W line of SW
QUADRANGLE: KEYESPORT **LONGITUDE:** -89.306877 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.746343 **DATE COLLECTED:** 6 / 0 / 1953
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log
SOURCE: DUNNILL, JOHN F. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
104.5	CARBONDALE		UNCLASSIFIED	4.5	361.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
100.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	366.0	
93.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.5	373.0	
87.5	CARBONDALE	CONANT	UNCLASSIFIED	2.5	378.5	
85.0	CARBONDALE		UNCLASSIFIED	3.5	381.0	SHALE ABOVE BRERETON LIMESTONE
81.5	CARBONDALE	BRERETON	LIMESTONE	1.0	384.5	
80.5	CARBONDALE	ANNA	BLACK SHALE	1.5	385.5	
79.0	CARBONDALE	HERRIN	COAL	7.0	387.0	

MAPID: 00500349000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.388834 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.827895 **DATE COLLECTED:** 11 / 0 / 1955

SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 463.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
122.0	MODESTO	PIASA	LIMESTONE	5.0	410.0	
117.0	MODESTO		UNCLASSIFIED	7.0	415.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
110.0	CARBONDALE	DANVILLE	COAL	1.5	422.0	
108.5	CARBONDALE		UNCLASSIFIED	19.5	423.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
89.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	443.0	
83.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	449.0	
81.0	CARBONDALE		UNCLASSIFIED	2.0	451.0	SHALE ABOVE BRERETON LIMESTONE
79.0	CARBONDALE	BRERETON	LIMESTONE	2.0	453.0	
77.0	CARBONDALE	ANNA	BLACK SHALE	3.0	455.0	
74.0	CARBONDALE	HERRIN	COAL	5.0	458.0	

MAPID: 00500715000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 1 **QUARTERS/FOOTAGES:** 2310' S line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.386604 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.820591 **DATE COLLECTED:** 2 / 0 / 1949

SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Electric Log

SOURCE: DORAN PAUL EST **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.1	MODESTO	PIASA	LIMESTONE	6.0	415.9	
106.1	MODESTO		UNCLASSIFIED	4.3	421.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
101.8	CARBONDALE		UNCLASSIFIED	19.8	426.2	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	446.0	
76.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	452.0	
74.0	CARBONDALE		UNCLASSIFIED	2.0	454.0	SHALE ABOVE BRERETON LIMESTONE
72.0	CARBONDALE	BRERETON	LIMESTONE	1.5	456.0	
70.5	CARBONDALE	ANNA	BLACK SHALE	2.5	457.5	
68.0	CARBONDALE	HERRIN	COAL	5.0	460.0	

MAPID: 00500715000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 1 **QUARTERS/FOOTAGES:** 2310' S line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.386604 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.820591 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 464.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
112.0	MODESTO	PIASA	LIMESTONE	7.0	416.0	
105.0	MODESTO		SHALE	11.5	423.0	
93.5	CARBONDALE	DANVILLE	COAL	1.5	434.5	
92.0	CARBONDALE		SHALE	11.5	436.0	
80.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.5	447.5	
76.0	CARBONDALE	LAWSON	SHALE	4.0	452.0	
72.0	CARBONDALE	BRERETON	LIMESTONE	2.0	456.0	
70.0	CARBONDALE	ANNA	SHALE	2.0	458.0	
68.0	CARBONDALE	HERRIN	COAL	4.5	460.0	

MAPID: 00500553000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 2 **QUARTERS/FOOTAGES:** 1650' S line, 1650' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403363 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.818696 **DATE COLLECTED:** 7 / 0 / 1953

SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
154.0	MODESTO	PIASA	LIMESTONE	4.5	366.0	
149.5	MODESTO		UNCLASSIFIED	3.5	370.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
146.0	CARBONDALE	DANVILLE	COAL	1.0	374.0	
145.0	CARBONDALE		UNCLASSIFIED	25.0	375.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
120.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	400.0	
113.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	407.0	
110.0	CARBONDALE		UNCLASSIFIED	3.0	410.0	SHALE ABOVE BRERETON LIMESTONE
107.0	CARBONDALE	BRERETON	LIMESTONE	4.0	413.0	
103.0	CARBONDALE	ANNA	BLACK SHALE	1.0	417.0	
102.0	CARBONDALE	HERRIN	COAL	5.0	418.0	

MAPID: 00500553000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 2 **QUARTERS/FOOTAGES:** 1650' S line, 1650' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403363 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.818696 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 422.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.0	MODESTO	PIASA	LIMESTONE	5.5	365.0	
149.5	MODESTO		SHALE	18.0	370.5	
131.5	CARBONDALE	DANVILLE	COAL	2.0	388.5	
129.5	CARBONDALE		SHALE	8.0	390.5	
121.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	398.5	
116.5	CARBONDALE	LAWSON	SHALE	5.0	403.5	
111.5	CARBONDALE	BRERETON	LIMESTONE	6.5	408.5	
105.0	CARBONDALE	ANNA	SHALE	1.0	415.0	
103.0	CARBONDALE	HERRIN	COAL	5.5	417.0	

MAPID: 00500729000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.400806 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.822341 **DATE COLLECTED:** 10 / 0 / 1957

SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: MARCH DRILLING CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
145.4	MODESTO	PIASA	LIMESTONE	3.0	376.6	
142.4	MODESTO		UNCLASSIFIED	3.0	379.6	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.4	CARBONDALE	DANVILLE	COAL	1.0	382.6	
138.4	CARBONDALE		UNCLASSIFIED	14.3	383.6	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
124.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	397.9	
115.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8	406.4	
111.8	CARBONDALE		UNCLASSIFIED	3.8	410.2	SHALE ABOVE BRERETON LIMESTONE
108.0	CARBONDALE	BRERETON	LIMESTONE	4.0	414.0	
104.0	CARBONDALE	ANNA	BLACK SHALE	2.0	418.0	
102.0	CARBONDALE	HERRIN	COAL	4.0	420.0	

MAPID: 00500464000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.436369 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.822076 **DATE COLLECTED:** 8 / 0 / 1956

SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
156.1	MODESTO	PIASA	LIMESTONE	5.0	361.9	
151.1	MODESTO		UNCLASSIFIED	6.5	366.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
144.6	CARBONDALE	DANVILLE	COAL	1.0	373.4	
143.6	CARBONDALE		UNCLASSIFIED	16.5	374.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	390.9	
118.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	399.4	
115.3	CARBONDALE		UNCLASSIFIED	3.3	402.7	SHALE ABOVE BRERETON LIMESTONE
112.0	CARBONDALE	BRERETON	LIMESTONE	1.0	406.0	
111.0	CARBONDALE	ANNA	BLACK SHALE	2.0	407.0	
109.0	CARBONDALE	HERRIN	COAL	6.0	409.0	

MAPID: 00500550000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433816 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.827532 **DATE COLLECTED:** 8 / 0 / 1951

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
153.0	MODESTO	PIASA	LIMESTONE	2.0	362.0	
151.0	MODESTO		UNCLASSIFIED	5.0	364.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
146.0	CARBONDALE	DANVILLE	COAL	1.5	369.0	
144.5	CARBONDALE		UNCLASSIFIED	17.5	370.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	388.0	
117.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	397.5	
114.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	400.5	
113.5	CARBONDALE		UNCLASSIFIED	0.5	401.5	SHALE ABOVE BRERETON LIMESTONE
113.0	CARBONDALE	BRERETON	LIMESTONE	2.5	402.0	
110.5	CARBONDALE	ANNA	BLACK SHALE	2.5	404.5	
108.0	CARBONDALE	HERRIN	COAL	6.0	407.0	

MAPID: 00500550000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433816 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.827532 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.0	MODESTO	PIASA	LIMESTONE	7.0	354.0	
154.0	MODESTO		SHALE	19.0	361.0	
135.0	CARBONDALE	DANVILLE	COAL	2.0	380.0	
133.0	CARBONDALE		SHALE	10.0	382.0	
123.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	392.0	
118.0	CARBONDALE	LAWSON	SHALE	5.0	397.0	
113.0	CARBONDALE	BRERETON	LIMESTONE	3.0	402.0	
110.0	CARBONDALE	ANNA	SHALE	2.0	405.0	
109.0	CARBONDALE	HERRIN	COAL	6.0	406.0	

MAPID: 00522992000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE SE SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.429248 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.814836 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 419.8 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-9 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.8	413.0	

MAPID: 00500559000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** 1650' S line, 330' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.464745 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.818145 **DATE COLLECTED:** 10 / 0 / 1947

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Electric Log

SOURCE: DAVISON D M **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	5.0	369.0	
142.0	MODESTO		UNCLASSIFIED	4.0	374.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
138.0	CARBONDALE	DANVILLE	COAL	1.0	378.0	
137.0	CARBONDALE		UNCLASSIFIED	14.0	379.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
123.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	393.0	
116.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	399.5	
112.0	CARBONDALE	CONANT	UNCLASSIFIED	2.0	404.0	
110.0	CARBONDALE		UNCLASSIFIED	3.0	406.0	SHALE ABOVE BRERETON LIMESTONE
107.0	CARBONDALE	BRERETON	LIMESTONE	3.0	409.0	
104.0	CARBONDALE	ANNA	BLACK SHALE	2.0	412.0	
102.0	CARBONDALE	HERRIN	COAL	5.0	414.0	

MAPID: 00500559000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** 1650' S line, 330' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.464745 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.818145 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	5.0	373.0	
142.0	MODESTO		SHALE	12.0	378.0	
130.0	CARBONDALE	DANVILLE	COAL	3.0	390.0	
127.0	CARBONDALE		SHALE	5.0	393.0	
122.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	398.0	
116.0	CARBONDALE	LAWSON	SHALE	2.0	404.0	
114.0	CARBONDALE	CONANT	LIMESTONE	3.5	406.0	
110.5	CARBONDALE		SHALE	1.5	409.5	
109.0	CARBONDALE	BRERETON	LIMESTONE	5.5	411.0	
102.0	CARBONDALE	HERRIN	COAL	6.0	418.0	

MAPID: 00500279000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.481318 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.827033 **DATE COLLECTED:** 7 / 0 / 1955

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 487.0 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.0	MODESTO	PIASA	LIMESTONE	3.0	444.0	
143.0	MODESTO		UNCLASSIFIED	4.0	447.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.0	CARBONDALE		UNCLASSIFIED	15.0	451.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
124.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	466.0	
118.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	472.0	
116.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	474.0	
115.0	CARBONDALE		UNCLASSIFIED	5.0	475.0	SHALE ABOVE BRERETON LIMESTONE
110.0	CARBONDALE	BRERETON	LIMESTONE	3.0	480.0	
107.0	CARBONDALE	ANNA	BLACK SHALE	1.0	483.0	
106.0	CARBONDALE	HERRIN	COAL	3.0	484.0	

MAPID: 00500305000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.481272 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.825211 **DATE COLLECTED:** 8 / 0 / 1955

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.0	MODESTO	PIASA	LIMESTONE	6.0	399.0	
157.0	MODESTO		UNCLASSIFIED	6.0	405.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
151.0	CARBONDALE		UNCLASSIFIED	21.0	411.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
130.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	432.0	
123.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	439.0	
121.0	CARBONDALE		UNCLASSIFIED	2.0	441.0	SHALE ABOVE BRERETON LIMESTONE
119.0	CARBONDALE	BRERETON	LIMESTONE	2.0	443.0	
117.0	CARBONDALE	ANNA	BLACK SHALE	2.0	445.0	
115.0	CARBONDALE	HERRIN	COAL	5.0	447.0	

MAPID: 00500308000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of NE NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.476659 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.827099 **DATE COLLECTED:** 9 / 0 / 1955
SURFACE ELEVATION (FT.): 596.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: HOILES, C E **WELL TYPE:** Gas Storage Operational Well
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00500431000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.476387 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.816227 **DATE COLLECTED:** 5 / 0 / 1956
SURFACE ELEVATION (FT.): 533.0 **LOGGED (FT.):** 404.0 **LOG TYPE:** Electric Log
SOURCE: BUTLER, HERMAN **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
175.5	MODESTO	PIASA	LIMESTONE	4.0	357.5	
171.5	MODESTO		UNCLASSIFIED	2.5	361.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
169.0	CARBONDALE	DANVILLE	COAL	0.5	364.0	
168.5	CARBONDALE		UNCLASSIFIED	17.5	364.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
151.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	382.0	
143.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	390.0	
139.0	CARBONDALE		UNCLASSIFIED	4.0	394.0	SHALE ABOVE BRERETON LIMESTONE
135.0	CARBONDALE	BRERETON	LIMESTONE	2.0	398.0	
133.0	CARBONDALE	ANNA	BLACK SHALE	1.0	400.0	
132.0	CARBONDALE	HERRIN	COAL	3.0	401.0	

MAPID: 00500567000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 2310' E line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.47416 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.827134 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	LAWSON	SILTY SHALE	90.0		

MAPID: 00501217000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.478769 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.818033 **DATE COLLECTED:** 5 / 0 / 1965

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 434.0 **LOG TYPE:** Electric Log

SOURCE: DOLPHIN OPER. CO., INC. **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.0	MODESTO	PIASA	LIMESTONE	3.0	387.0	
160.0	MODESTO		UNCLASSIFIED	4.0	390.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
156.0	CARBONDALE		UNCLASSIFIED	19.0	394.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
137.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	413.0	
130.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	420.0	
128.0	CARBONDALE		UNCLASSIFIED	2.0	422.0	SHALE ABOVE BRERETON LIMESTONE
126.0	CARBONDALE	BRERETON	LIMESTONE	2.0	424.0	
124.0	CARBONDALE	ANNA	BLACK SHALE	2.0	426.0	
122.0	CARBONDALE	HERRIN	COAL	6.0	428.0	

MAPID: 00522993000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.483336 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.814381 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 392.0 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-8 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWM B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.0	385.0	

MAPID: 00500388000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 7 **QUARTERS/FOOTAGES:** 360' S line, 330' W line of NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.473896 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.807251 **DATE COLLECTED:** 1 / 0 / 1956

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 381.0 **LOG TYPE:** Electric Log

SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
162.0	MODESTO	PIASA	LIMESTONE	4.0	329.0	
158.0	MODESTO		UNCLASSIFIED	3.5	333.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
154.5	CARBONDALE	DANVILLE	COAL	1.5	336.5	
153.0	CARBONDALE		UNCLASSIFIED	22.0	338.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
131.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	360.0	
124.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	367.0	
121.5	CARBONDALE		UNCLASSIFIED	2.5	369.5	SHALE ABOVE BRERETON LIMESTONE
119.0	CARBONDALE	BRERETON	LIMESTONE	2.0	372.0	
117.0	CARBONDALE	ANNA	BLACK SHALE	2.0	374.0	
115.0	CARBONDALE	HERRIN	COAL	5.0	376.0	

MAPID: 00500446000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.48092 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.810748 **DATE COLLECTED:** 6 / 0 / 1956

SURFACE ELEVATION (FT.): 519.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log

SOURCE: NASH & REDWINE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
164.5	MODESTO	PIASA	LIMESTONE	2.5	354.5	
162.0	MODESTO		UNCLASSIFIED	5.0	357.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
157.0	CARBONDALE	DANVILLE	COAL	2.0	362.0	
155.0	CARBONDALE		UNCLASSIFIED	19.0	364.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
136.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	383.0	
129.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	390.0	
126.5	CARBONDALE		UNCLASSIFIED	2.5	392.5	SHALE ABOVE BRERETON LIMESTONE
124.0	CARBONDALE	BRERETON	LIMESTONE	2.0	395.0	
122.0	CARBONDALE	ANNA	BLACK SHALE	2.0	397.0	
120.0	CARBONDALE	HERRIN	COAL	6.0	399.0	

MAPID: 00500560000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.452828 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.812885 **DATE COLLECTED:** 7 / 0 / 1943

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log

SOURCE: DAVISON D M **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
135.0	MODESTO	PIASA	LIMESTONE	4.0	392.0	
131.0	MODESTO		UNCLASSIFIED	7.0	396.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
124.0	CARBONDALE	DANVILLE	COAL	2.0	403.0	
122.0	CARBONDALE		UNCLASSIFIED	17.5	405.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
104.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	422.5	
97.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	430.0	
93.0	CARBONDALE		UNCLASSIFIED	4.0	434.0	SHALE ABOVE BRERETON LIMESTONE
89.0	CARBONDALE	BRERETON	LIMESTONE	2.0	438.0	
87.0	CARBONDALE	ANNA	BLACK SHALE	1.0	440.0	
86.0	CARBONDALE	HERRIN	COAL	6.0	441.0	

MAPID: 00500560000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.452828 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.812885 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 449.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
114.0	CARBONDALE	DANVILLE	COAL	1.0	413.0	
113.0	CARBONDALE		SILTY SHALE	6.0	414.0	
107.0	CARBONDALE		SILTY SHALE	4.0	420.0	
103.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	7.0	424.0	
96.0	CARBONDALE	LAWSON	SHALE	10.0	431.0	
86.0	CARBONDALE	BRERETON	LIMESTONE	3.0	441.0	
83.0	CARBONDALE	HERRIN	COAL	5.0	444.0	

MAPID: 00500714000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.462268 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.803642 **DATE COLLECTED:** 11 / 0 / 1944

SURFACE ELEVATION (FT.): 531.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Electric Log

SOURCE: LUTTRELL HOMER **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.5	MODESTO	PIASA	LIMESTONE	3.0	367.5	
160.5	MODESTO		UNCLASSIFIED	3.5	370.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
157.0	CARBONDALE	DANVILLE	COAL	1.5	374.0	
155.5	CARBONDALE		UNCLASSIFIED	20.5	375.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
135.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	396.0	
127.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	404.0	
125.0	CARBONDALE		UNCLASSIFIED	2.0	406.0	SHALE ABOVE BRERETON LIMESTONE
123.0	CARBONDALE	BRERETON	LIMESTONE	2.0	408.0	
121.0	CARBONDALE	ANNA	BLACK SHALE	3.0	410.0	
118.0	CARBONDALE	HERRIN	COAL	6.0	413.0	

MAPID: 00522994000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** SW SW NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.455224 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.807353 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 469.1 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY IF-799 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.1	463.0	

MAPID: 00501002000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.438707 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.807453 **DATE COLLECTED:** 1 / 0 / 1943

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 433.0 **LOG TYPE:** Electric Log

SOURCE: KILPATRICK K W **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
89.0	CARBONDALE	HERRIN	COAL	6.0	427.0	

MAPID: 00500561000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 11 **QUARTERS/FOOTAGES:** 990' S line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.405632 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.802202 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 427.0 **LOG TYPE:** Electric Log

SOURCE: FINLEY J BARRY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.1	MODESTO	PIASA	LIMESTONE	3.0	378.9	
120.1	MODESTO		UNCLASSIFIED	6.5	381.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
113.6	CARBONDALE	DANVILLE	COAL	1.5	388.4	
112.1	CARBONDALE		UNCLASSIFIED	16.0	389.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	405.9	
88.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	413.9	
85.3	CARBONDALE		UNCLASSIFIED	2.8	416.7	SHALE ABOVE BRERETON LIMESTONE
82.5	CARBONDALE	BRERETON	LIMESTONE	1.5	419.5	
81.0	CARBONDALE	ANNA	BLACK SHALE	2.0	421.0	
79.0	CARBONDALE	HERRIN	COAL	4.0	423.0	

MAPID: 00500561000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 11 **QUARTERS/FOOTAGES:** 990' S line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.405632 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.802202 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 428.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
130.0	MODESTO	PIASA	LIMESTONE & SHALE	10.0	372.0	
120.0	MODESTO		SHALE	13.5	382.0	
106.5	CARBONDALE	DANVILLE	COAL	0.5	395.5	
106.0	CARBONDALE		SHALE	12.0	396.0	
94.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	408.0	
89.0	CARBONDALE	LAWSON	SHALE	7.0	413.0	
82.0	CARBONDALE	BRERETON	LIMESTONE	2.5	420.0	
79.0	CARBONDALE	HERRIN	COAL	5.0	423.0	

MAPID: 00522995000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 11 **QUARTERS/FOOTAGES:** NW NW NE NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.394336 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.813741 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 429.6 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY IF-777 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.6	423.0	

MAPID: 00500562000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.377165 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.807799 **DATE COLLECTED:** 9 / 0 / 1951

SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: DORAN THOMAS S **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
127.0	MODESTO	PIASA	LIMESTONE	3.0	365.0	
124.0	MODESTO		UNCLASSIFIED	7.0	368.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
117.0	CARBONDALE	DANVILLE	COAL	1.5	375.0	
115.5	CARBONDALE		UNCLASSIFIED	16.5	376.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
99.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	393.0	
92.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	400.0	
91.0	CARBONDALE		UNCLASSIFIED	1.0	401.0	SHALE ABOVE BRERETON LIMESTONE
90.0	CARBONDALE	BRERETON	LIMESTONE	1.5	402.0	
88.5	CARBONDALE	ANNA	BLACK SHALE	2.5	403.5	
86.0	CARBONDALE	HERRIN	COAL	4.0	406.0	

MAPID: 00500562000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.377165 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.807799 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 410.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.0	MODESTO	PIASA	LIMESTONE & SHALE	10.0	358.0	
124.0	MODESTO		SHALE	18.0	368.0	
106.0	CARBONDALE	DANVILLE	COAL	0.5	386.0	
105.5	CARBONDALE		SHALE	9.5	386.5	
96.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.5	396.0	
91.5	CARBONDALE	LAWSON	SHALE	3.5	400.5	
88.0	CARBONDALE	ANNA	BLACK SHALE	2.0	404.0	
86.0	CARBONDALE	HERRIN	COAL	4.5	406.0	

MAPID: 00500334000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.372702 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.787718 **DATE COLLECTED:** 9 / 0 / 1955

SURFACE ELEVATION (FT.): 498.0 **LOGGED (FT.):** 409.0 **LOG TYPE:** Electric Log

SOURCE: LOAR WARREN N JR **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	6.0	356.0	
136.0	MODESTO		UNCLASSIFIED	5.0	362.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.0	CARBONDALE	DANVILLE	COAL	1.5	367.0	
129.5	CARBONDALE		UNCLASSIFIED	21.5	368.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
108.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	390.0	
103.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	395.0	
100.5	CARBONDALE		UNCLASSIFIED	2.5	397.5	SHALE ABOVE BRERETON LIMESTONE
98.0	CARBONDALE	BRERETON	LIMESTONE	1.5	400.0	
96.5	CARBONDALE	ANNA	BLACK SHALE	2.5	401.5	
94.0	CARBONDALE	HERRIN	COAL	5.0	404.0	

MAPID: 00500713000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.38928 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.785841 **DATE COLLECTED:** 10 / 0 / 1946

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log

SOURCE: ROBERTS & HOILES **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	5.0	349.0	
137.0	MODESTO		UNCLASSIFIED	6.0	354.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.0	CARBONDALE	DANVILLE	COAL	2.0	360.0	
129.0	CARBONDALE		UNCLASSIFIED	22.0	362.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
107.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	384.0	
100.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	391.0	
96.0	CARBONDALE		UNCLASSIFIED	4.0	395.0	SHALE ABOVE BRERETON LIMESTONE
92.0	CARBONDALE	BRERETON	LIMESTONE	2.0	399.0	
90.0	CARBONDALE	ANNA	BLACK SHALE	1.0	401.0	
89.0	CARBONDALE	HERRIN	COAL	6.0	402.0	

MAPID: 00500713000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.38928 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.785841 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE & SHALE	6.0	351.0	
134.0	MODESTO		SHALE	21.5	357.0	
112.5	CARBONDALE	DANVILLE	COAL	2.5	378.5	
110.0	CARBONDALE		SHALE	8.0	381.0	
102.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.5	389.0	
96.5	CARBONDALE	LAWSON	SHALE	10.5	394.5	
86.0	CARBONDALE	BRERETON	LIMESTONE	2.0	405.0	
85.0	CARBONDALE	HERRIN	COAL	5.0	406.0	

MAPID: 00501003000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' S line, 400' W line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.389033 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.785841 **DATE COLLECTED:** 8 / 0 / 1949
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log
SOURCE: HOILES PETRO CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
91.0	CARBONDALE	HERRIN	COAL	5.0	400.0	

MAPID: 00522996000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** NW NW NW NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.389718 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.799135 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 419.9 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-43 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.9	413.0	

MAPID: 00500563000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 14 **QUARTERS/FOOTAGES:** 990' N line, 2310' E line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.398481 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.796793 **DATE COLLECTED:** 10 / 0 / 1945
SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 431.0 **LOG TYPE:** Electric Log
SOURCE: ROBERTS J M **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	6.0	388.0	
113.0	MODESTO		UNCLASSIFIED	3.0	394.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
110.0	CARBONDALE	DANVILLE	COAL	1.0	397.0	
109.0	CARBONDALE		UNCLASSIFIED	13.0	398.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	411.0	
90.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	417.0	
88.0	CARBONDALE		UNCLASSIFIED	2.0	419.0	SHALE ABOVE BRERETON LIMESTONE
86.0	CARBONDALE	BRERETON	LIMESTONE	3.0	421.0	
83.0	CARBONDALE	ANNA	BLACK SHALE	2.0	424.0	
81.0	CARBONDALE	HERRIN	COAL	5.0	426.0	

MAPID: 00500563000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 14 **QUARTERS/FOOTAGES:** 990' N line, 2310' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.398481 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.796793 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 428.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	5.0	388.0	
114.0	MODESTO		SHALE	10.0	393.0	
104.0	CARBONDALE	DANVILLE	COAL	2.0	403.0	
102.0	CARBONDALE		SHALE	6.0	405.0	
96.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	411.0	
89.0	CARBONDALE	LAWSON	SHALE	8.0	418.0	
81.0	CARBONDALE	BRERETON	LIMESTONE	3.0	426.0	
83.0	CARBONDALE	HERRIN	COAL	4.0	424.0	

MAPID: 00500551000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.443195 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.785604 **DATE COLLECTED:** 7 / 0 / 1943

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log

SOURCE: NATL REFINING CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.0	MODESTO	PIASA	LIMESTONE	4.0	360.0	
137.0	MODESTO		UNCLASSIFIED	6.0	364.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.0	CARBONDALE		UNCLASSIFIED	16.0	370.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
115.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	386.0	
108.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	393.0	
105.0	CARBONDALE		UNCLASSIFIED	3.0	396.0	SHALE ABOVE BRERETON LIMESTONE
102.0	CARBONDALE	BRERETON	LIMESTONE	1.0	399.0	
101.0	CARBONDALE	ANNA	BLACK SHALE	3.0	400.0	
98.0	CARBONDALE	HERRIN	COAL	5.0	403.0	

MAPID: 00500551000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.443195 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.785604 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
125.0	CARBONDALE	DANVILLE	COAL	1.0	376.0	
124.0	CARBONDALE		SHALE	8.0	377.0	
116.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	385.0	
109.0	CARBONDALE	LAWSON	SHALE	9.0	392.0	
100.0	CARBONDALE	BRERETON	LIMESTONE	3.0	401.0	
97.0	CARBONDALE	HERRIN	COAL	4.0	404.0	

MAPID: 00500878000C **VERSION:** 1 **PROJECT:** NCRDS87

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.432787 **GEOLOGIST:** WEIBEL

CONFIDENTIAL: N **LATITUDE:** 38.788354 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Drillers Log

SOURCE: S.C. MAYER (DRILLER) **WELL TYPE:** Coal Test

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
505.0			UNCONSOLIDATED	23.0	0.0	
482.0	BOND		SHALE	8.0	23.0	
474.0	BOND	CARTHAGE	LIMESTONE	7.0	31.0	
467.0	MODESTO		BLACK SHALE	4.0	38.0	
463.0	MODESTO		SHALE	55.0	42.0	
408.0	MODESTO		BLACK SHALE	3.0	97.0	
405.0	MODESTO		SHALE	104.0	100.0	
301.0	MODESTO		LIMESTONE	1.0	204.0	
300.0	MODESTO		BLACK SHALE	3.0	205.0	
297.0	MODESTO		LIMESTONE	0.8	208.0	
296.2	MODESTO		COAL	1.3	208.8	
295.0	MODESTO		UNDERCLAY	3.0	210.0	
292.0	MODESTO		SHALE	5.0	213.0	
287.0	MODESTO		LIMESTONE	0.5	218.0	
286.5	MODESTO		SHALE	94.5	218.5	
192.0	MODESTO		LIMESTONE	0.8	313.0	
191.2	MODESTO		SHALE	20.3	313.8	
171.0	MODESTO	PIASA	LIMESTONE	13.0	334.0	
158.0	MODESTO		SHALE	11.0	347.0	
147.0	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	358.0	UNCERTAIN CORRELATION
137.0	CARBONDALE		DARK SHALE	4.0	368.0	
133.0	CARBONDALE		COAL	0.3	372.0	
132.7	CARBONDALE	ANNA	BLACK SHALE	0.5	372.3	
132.2	CARBONDALE		LIMESTONE	0.3	372.8	
132.0	CARBONDALE	HERRIN	COAL	7.0	373.0	
125.0	CARBONDALE		UNDERCLAY	5.0	380.0	
120.0	CARBONDALE		SHALE	5.0	385.0	

MAPID: 00500878000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.432787 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.788354 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Drillers Log

SOURCE: DONK BROS. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
505.0			UNCONSOLIDATED	23.0	0.0	
482.0			ROCK	185.8	23.0	
296.2			COAL	1.8	208.8	DEPTHS ON LOG DON'T CORRESPND W/THCKNES
294.5			ROCK	161.5	210.5	
133.0			COAL	0.3	372.0	
132.7			BLACK SHALE	0.5	372.3	
132.2			LIMESTONE	0.3	372.8	
132.0	CARBONDALE	HERRIN	COAL	7.0	373.0	
125.0			ROCK	10.0	380.0	

MAPID: 00500878000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.432787 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.788354 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Drillers Log

SOURCE: MAYER S C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
171.0	MODESTO	PIASA	LIMESTONE	4.0	334.0	
167.0	MODESTO		UNCLASSIFIED	4.5	338.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
162.5	CARBONDALE		UNCLASSIFIED	15.5	342.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
147.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	358.0	
137.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	368.0	
135.5	CARBONDALE		UNCLASSIFIED	1.5	369.5	SHALE ABOVE BRERETON LIMESTONE
134.0	CARBONDALE	BRERETON	LIMESTONE	1.0	371.0	
133.0	CARBONDALE	ANNA	BLACK SHALE	1.0	372.0	
132.0	CARBONDALE	HERRIN	COAL	7.0	373.0	

MAPID: 00500454000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.457512 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.79821 **DATE COLLECTED:** 7 / 0 / 1956

SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Electric Log

SOURCE: CLAYPOOL DAVID N **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
145.0	MODESTO	PIASA	LIMESTONE	3.0	362.0	
142.0	MODESTO		UNCLASSIFIED	6.0	365.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
136.0	CARBONDALE	DANVILLE	COAL	1.0	371.0	
135.0	CARBONDALE		UNCLASSIFIED	12.0	372.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
123.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	384.0	
116.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	391.0	
113.5	CARBONDALE		UNCLASSIFIED	2.5	393.5	SHALE ABOVE BRERETON LIMESTONE
111.0	CARBONDALE	BRERETON	LIMESTONE	2.0	396.0	
109.0	CARBONDALE	ANNA	BLACK SHALE	3.0	398.0	
106.0	CARBONDALE	HERRIN	COAL	5.0	401.0	

MAPID: 00522997000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 18 **QUARTERS/FOOTAGES:** SW SW SW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.483128 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.784833 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 360.3 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-30 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.3	354.0	

MAPID: 00500565000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** 1650' N line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.462136 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.779983 **DATE COLLECTED:** 3 / 0 / 1952

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 387.0 **LOG TYPE:** Electric Log

SOURCE: DORAN THOMAS S **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
159.0	MODESTO	PIASA	LIMESTONE	3.0	340.0	
156.0	MODESTO		UNCLASSIFIED	7.0	343.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
149.0	CARBONDALE	DANVILLE	COAL	1.0	350.0	
148.0	CARBONDALE		UNCLASSIFIED	14.0	351.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
134.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	365.0	
128.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0	371.0	
123.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	376.0	
122.0	CARBONDALE		UNCLASSIFIED	3.0	377.0	SHALE ABOVE BRERETON LIMESTONE
119.0	CARBONDALE	BRERETON	LIMESTONE	1.0	380.0	
118.0	CARBONDALE	ANNA	BLACK SHALE	2.0	381.0	
116.0	CARBONDALE	HERRIN	COAL	4.0	383.0	

MAPID: 00500565000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** 1650' N line, 990' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.462136 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.779983 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 388.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
159.0	MODESTO	PIASA	LIMESTONE	3.0	340.0	
156.0	MODESTO		SHALE	15.0	343.0	
141.0	CARBONDALE		SHALE	8.0	358.0	
133.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	366.0	
128.0	CARBONDALE	LAWSON	SHALE	10.0	371.0	
118.0	CARBONDALE	BRERETON	LIMESTONE	3.0	381.0	
115.0	CARBONDALE	HERRIN	COAL	4.0	384.0	

MAPID: 00500555000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.429273 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.77838 **DATE COLLECTED:** 7 / 0 / 1953

SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log

SOURCE: SELF E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
144.1	MODESTO	PIASA	LIMESTONE	4.0	359.9	
140.1	MODESTO		UNCLASSIFIED	3.0	363.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
137.1	CARBONDALE	DANVILLE	COAL	2.0	366.9	
135.1	CARBONDALE		UNCLASSIFIED	19.0	368.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
116.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	387.9	
109.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	394.4	
107.3	CARBONDALE		UNCLASSIFIED	2.3	396.7	SHALE ABOVE BRERETON LIMESTONE
105.0	CARBONDALE	BRERETON	LIMESTONE	3.0	399.0	
102.0	CARBONDALE	ANNA	BLACK SHALE	2.0	402.0	
100.0	CARBONDALE	HERRIN	COAL	4.0	404.0	

MAPID: 00500564000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' S line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433919 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.772864 **DATE COLLECTED:** 6 / 0 / 1954

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 404.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	6.0	351.0	
143.0	MODESTO		UNCLASSIFIED	5.0	357.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
138.0	CARBONDALE		UNCLASSIFIED	19.0	362.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
119.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	381.0	
112.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	388.0	
110.5	CARBONDALE	CONANT	UNCLASSIFIED	0.5	389.5	
110.0	CARBONDALE		UNCLASSIFIED	4.0	390.0	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	BRERETON	LIMESTONE	2.0	394.0	
104.0	CARBONDALE	ANNA	BLACK SHALE	2.0	396.0	
102.0	CARBONDALE	HERRIN	COAL	6.0	398.0	

MAPID: 00500564000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' S line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433919 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.772864 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 403.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.0	MODESTO	PIASA	LIMESTONE	5.0	352.0	
143.0	MODESTO		SHALE	13.0	357.0	
130.0	CARBONDALE	DANVILLE	COAL	3.0	370.0	
127.0	CARBONDALE		SHALE	6.5	373.0	
120.5	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	379.5	UPPER BENCH
117.5	CARBONDALE	BANKSTON FORK	SHALE	1.0	382.5	SHALE PARTING
116.5	CARBONDALE	BANKSTON FORK	LIMESTONE	3.5	383.5	LOWER BENCH
113.0	CARBONDALE	LAWSON	SHALE	5.5	387.0	
107.5	CARBONDALE	BRERETON	LIMESTONE	3.5	392.5	
104.0	CARBONDALE	ANNA	SHALE	1.0	396.0	
103.0	CARBONDALE	HERRIN	COAL	6.0	397.0	

MAPID: 00522998000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NE NE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.437976 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.784257 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 412.0 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY IF-775 **WELL TYPE:** Coal Test

COMMENT: LOCN,DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.0	405.0	

MAPID: 00500554000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.426957 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.783845 **DATE COLLECTED:** 4 / 0 / 1954

SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 431.0 **LOG TYPE:** Electric Log

SOURCE: SELF E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	MODESTO	PIASA	LIMESTONE	6.0	376.0	
121.0	MODESTO		UNCLASSIFIED	5.0	382.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
116.0	CARBONDALE		UNCLASSIFIED	21.0	387.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
95.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	408.0	
88.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	415.0	
84.0	CARBONDALE	CONANT	UNCLASSIFIED	1.5	419.0	
82.5	CARBONDALE		UNCLASSIFIED	2.5	420.5	SHALE ABOVE BRERETON LIMESTONE
80.0	CARBONDALE	BRERETON	LIMESTONE	2.0	423.0	
78.0	CARBONDALE	ANNA	BLACK SHALE	1.0	425.0	
77.0	CARBONDALE	HERRIN	COAL	5.0	426.0	

MAPID: 00500554000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.426957 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.783845 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	MODESTO	PIASA	LIMESTONE	6.0	380.0	
117.0	MODESTO		SHALE	14.0	386.0	
103.0	CARBONDALE	DANVILLE	COAL	2.0	400.0	
101.0	CARBONDALE		SHALE	9.0	402.0	
92.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	7.0	411.0	
85.0	CARBONDALE	LAWSON	SHALE	9.0	418.0	
76.0	CARBONDALE	BRERETON	LIMESTONE	2.5	427.0	
72.0	CARBONDALE	HERRIN	COAL	6.0	431.0	

MAPID: 00501006000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE NE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.393942 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.784002 **DATE COLLECTED:** 6 / 0 / 1949
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 384.0 **LOG TYPE:** Electric Log
SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
110.0	CARBONDALE	HERRIN	COAL	4.0	380.0	

MAPID: 00522999000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NW NE SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.394535 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.777156 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 433.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY IF-771 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.5	426.0	

MAPID: 00500137000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 300' N line, 3100' E line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.382521 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.784112 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 495.3 **LOGGED (FT.):** 1340.0 **LOG TYPE:**
SOURCE: EASON OIL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
100.3	CARBONDALE	HERRIN	COAL	10.0	395.0	

MAPID: 00500137000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 300' N line, 3100' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.382521 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.784112 **DATE COLLECTED:** 0 / 0 / 1939

SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 392.0 **LOG TYPE:** Drillers Log

SOURCE: EASON OIL CO. **WELL TYPE:** Junked Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.0	MODESTO	PIASA	LIMESTONE	10.0	335.0	
140.0	MODESTO		UNCLASSIFIED	6.5	345.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.5	CARBONDALE		UNCLASSIFIED	14.5	351.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
119.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	366.0	
111.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	374.0	
109.5	CARBONDALE		UNCLASSIFIED	1.5	375.5	SHALE ABOVE BRERETON LIMESTONE
108.0	CARBONDALE	BRERETON	LIMESTONE	5.0	377.0	
103.0	CARBONDALE	ANNA	BLACK SHALE	3.0	382.0	
100.0	CARBONDALE	HERRIN	COAL	7.0	385.0	

MAPID: 00500149000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.382197 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.784026 **DATE COLLECTED:** 6 / 0 / 1939

SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 402.0 **LOG TYPE:** Drillers Log

SOURCE: EASON OIL CO. **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	4.0	347.0	
145.0	MODESTO		UNCLASSIFIED	8.0	351.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
137.0	CARBONDALE		UNCLASSIFIED	20.0	359.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
117.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	379.0	
110.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	386.0	
106.5	CARBONDALE		UNCLASSIFIED	3.5	389.5	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	1.5	393.0	
101.5	CARBONDALE	ANNA	BLACK SHALE	1.5	394.5	
100.0	CARBONDALE	HERRIN	COAL	6.0	396.0	

MAPID: 00500556000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 1650' N line, 1650' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.384626 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.780382 **DATE COLLECTED:** 7 / 0 / 1952

SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 400.0 **LOG TYPE:** Electric Log

SOURCE: SHULMON BROS **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	3.0	349.0	
144.0	MODESTO		UNCLASSIFIED	5.0	352.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.0	CARBONDALE		UNCLASSIFIED	19.0	357.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
120.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	376.0	
115.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0	381.0	
110.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	386.0	
109.0	CARBONDALE		UNCLASSIFIED	3.0	387.0	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	BRERETON	LIMESTONE	4.0	390.0	
102.0	CARBONDALE	ANNA	BLACK SHALE	2.0	394.0	
100.0	CARBONDALE	HERRIN	COAL	4.0	396.0	

MAPID: 00500556000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 1650' N line, 1650' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.384626 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.780382 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 399.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.0	MODESTO	PIASA	LIMESTONE	2.0	350.0	
144.0	MODESTO		SHALE	18.0	352.0	
126.0	CARBONDALE		SHALE	6.0	370.0	
120.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	376.0	LOWER BENCH
115.0	CARBONDALE	LAWSON	SHALE	8.0	381.0	
107.0	CARBONDALE	BRERETON	LIMESTONE	5.0	389.0	
102.0	CARBONDALE	ANNA	SHALE	2.0	394.0	
102.0	CARBONDALE	HERRIN	COAL	5.0	394.0	

MAPID: 00500728000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.372758 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.7822 **DATE COLLECTED:** 10 / 0 / 1957

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 383.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
162.0	MODESTO	PIASA	LIMESTONE	4.5	333.0	
157.5	MODESTO		UNCLASSIFIED	5.5	337.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
152.0	CARBONDALE	DANVILLE	COAL	1.0	343.0	
151.0	CARBONDALE		UNCLASSIFIED	15.5	344.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
135.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	359.5	
130.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	364.5	
126.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	369.0	
125.0	CARBONDALE		UNCLASSIFIED	1.5	370.0	SHALE ABOVE BRERETON LIMESTONE
123.5	CARBONDALE	BRERETON	LIMESTONE	2.5	371.5	
121.0	CARBONDALE	ANNA	BLACK SHALE	4.0	374.0	
117.0	CARBONDALE	HERRIN	COAL	5.0	378.0	

MAPID: 00500784000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.375099 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.778536 **DATE COLLECTED:** 12 / 0 / 1958

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 396.0 **LOG TYPE:** Electric Log

SOURCE: HASSE ELMER C **WELL TYPE:** Producer-Gas

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
157.0	MODESTO	PIASA	LIMESTONE	4.0	344.0	
153.0	MODESTO		UNCLASSIFIED	5.0	348.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
148.0	CARBONDALE		UNCLASSIFIED	20.0	353.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
128.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	373.0	
124.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	377.0	
120.0	CARBONDALE		UNCLASSIFIED	4.0	381.0	SHALE ABOVE BRERETON LIMESTONE
116.0	CARBONDALE	BRERETON	LIMESTONE	2.5	385.0	
113.5	CARBONDALE	ANNA	BLACK SHALE	2.5	387.5	
111.0	CARBONDALE	HERRIN	COAL	6.0	390.0	

MAPID: 00501007000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.38693 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.784023 **DATE COLLECTED:** 8 / 0 / 1949
SURFACE ELEVATION (FT.): 487.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Electric Log
SOURCE: HOILES PETRO CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
82.0	CARBONDALE	HERRIN	COAL	7.0	405.0	

MAPID: 00501008000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.382189 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.780371 **DATE COLLECTED:** 8 / 0 / 1950
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log
SOURCE: HOILES PETRO CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
92.0	CARBONDALE	HERRIN	COAL	5.0	400.0	

MAPID: 00501009000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 70' N line, 330' E line of SW NE NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.384541 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.782916 **DATE COLLECTED:** 2 / 0 / 1948
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 393.0 **LOG TYPE:** Electric Log
SOURCE: ASHWORTH, A. L. **WELL TYPE:** Gas Storage Operational Well
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.0	MODESTO	PIASA	LIMESTONE	8.0	342.0	
138.0	MODESTO		UNCLASSIFIED	6.0	350.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
132.0	CARBONDALE		UNCLASSIFIED	15.0	356.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
117.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	371.0	
108.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	380.0	
106.0	CARBONDALE		UNCLASSIFIED	2.0	382.0	SHALE ABOVE BRERETON LIMESTONE
104.0	CARBONDALE	BRERETON	LIMESTONE	2.0	384.0	
102.0	CARBONDALE	ANNA	BLACK SHALE	2.0	386.0	
100.0	CARBONDALE	HERRIN	COAL	5.0	388.0	

MAPID: 00501011000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.372771 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.778536 **DATE COLLECTED:** 3 / 0 / 1947

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 402.0 **LOG TYPE:** Electric Log

SOURCE: HOFFMAN, H **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.0	MODESTO	PIASA	LIMESTONE	4.0	356.0	
137.0	MODESTO		UNCLASSIFIED	3.5	360.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.5	CARBONDALE		UNCLASSIFIED	14.5	363.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
119.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	378.0	
115.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	382.0	
111.5	CARBONDALE		UNCLASSIFIED	3.5	385.5	SHALE ABOVE BRERETON LIMESTONE
108.0	CARBONDALE	BRERETON	LIMESTONE	7.0	389.0	
101.0	CARBONDALE	ANNA	BLACK SHALE	2.0	396.0	
99.0	CARBONDALE	HERRIN	COAL	4.0	398.0	

MAPID: 00500686000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** 2310' S line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.377504 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.762093 **DATE COLLECTED:** 12 / 0 / 1940

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 427.5 **LOG TYPE:** Electric Log

SOURCE: HOLLEMAN PAUL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
114.0	MODESTO	PIASA	LIMESTONE	8.0	368.0	
106.0	MODESTO		UNCLASSIFIED	5.0	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
101.0	CARBONDALE	DANVILLE	COAL	2.0	381.0	
99.0	CARBONDALE		UNCLASSIFIED	20.5	383.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
78.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	403.5	
73.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	409.0	
68.5	CARBONDALE		UNCLASSIFIED	4.5	413.5	SHALE ABOVE BRERETON LIMESTONE
64.0	CARBONDALE	BRERETON	LIMESTONE	2.0	418.0	
62.0	CARBONDALE	ANNA	BLACK SHALE	2.0	420.0	
60.0	CARBONDALE	HERRIN	COAL	5.5	422.0	

MAPID: 00500686000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** 2310' S line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.377504 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.762093 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 428.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
114.0	MODESTO	PIASA	LIMESTONE	8.0	368.0	
106.0	MODESTO		SHALE	16.0	376.0	
90.0	CARBONDALE	DANVILLE	COAL	4.0	392.0	
86.0	CARBONDALE		SHALE	6.0	396.0	
80.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	402.0	LOWER BENCH
73.0	CARBONDALE	LAWSON	SHALE	8.0	409.0	
65.0	CARBONDALE	BRERETON	LIMESTONE	5.0	417.0	
60.0	CARBONDALE	HERRIN	COAL	6.0	422.0	

MAPID: 00523000000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** SW SW NW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.389881 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.759877 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 440.0 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-41 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.0	434.0	

MAPID: 00500759000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403492 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.76207 **DATE COLLECTED:** 5 / 0 / 1958

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 429.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
118.0	MODESTO	PIASA	LIMESTONE	3.0	377.0	
115.0	MODESTO		UNCLASSIFIED	6.0	380.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
109.0	CARBONDALE		UNCLASSIFIED	15.0	386.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
94.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	401.0	
88.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	6.5	407.0	
81.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	413.5	
80.5	CARBONDALE		UNCLASSIFIED	3.5	414.5	SHALE ABOVE BRERETON LIMESTONE
77.0	CARBONDALE	BRERETON	LIMESTONE	4.0	418.0	
73.0	CARBONDALE	ANNA	BLACK SHALE	2.0	422.0	
71.0	CARBONDALE	HERRIN	COAL	5.0	424.0	

MAPID: 00500759000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403492 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.76207 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 429.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
117.0	MODESTO	PIASA	LIMESTONE	2.5	378.0	
114.5	MODESTO		SHALE	15.0	380.5	
99.5	CARBONDALE	DANVILLE	COAL	1.0	395.5	
98.5	CARBONDALE		SHALE	4.0	396.5	
94.5	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	6.0	400.5	
88.5	CARBONDALE	LAWSON	SHALE	11.0	406.5	
77.5	CARBONDALE	BRERETON	LIMESTONE	5.0	417.5	
72.5	CARBONDALE	ANNA	SHALE	2.0	422.5	
71.0	CARBONDALE	HERRIN	COAL	5.0	424.0	

MAPID: 00500774000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.398702 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.765749 **DATE COLLECTED:** 9 / 0 / 1959
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 417.0 **LOG TYPE:** Electric Log
SOURCE: CYSONY OIL CO **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	MODESTO	PIASA	LIMESTONE	4.0	363.0	
121.0	MODESTO		UNCLASSIFIED	6.0	367.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
115.0	CARBONDALE		UNCLASSIFIED	19.0	373.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	392.0	
88.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	400.0	
85.5	CARBONDALE		UNCLASSIFIED	2.5	402.5	SHALE ABOVE BRERETON LIMESTONE
83.0	CARBONDALE	BRERETON	LIMESTONE	3.0	405.0	
80.0	CARBONDALE	ANNA	BLACK SHALE	3.0	408.0	
77.0	CARBONDALE	HERRIN	COAL	6.0	411.0	

MAPID: 00500445000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.417522 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.762007 **DATE COLLECTED:** 5 / 0 / 1956
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: MAZZARINO **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00500557000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 990' E line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.450191 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.76356 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 389.0 **LOG TYPE:** Electric Log
SOURCE: DIRIKSON, T. BLAKE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
158.0	MODESTO	PIASA	LIMESTONE	4.0	339.0	
154.0	MODESTO		UNCLASSIFIED	6.0	343.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
148.0	CARBONDALE		UNCLASSIFIED	15.0	349.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
133.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	364.0	
126.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	371.0	
121.5	CARBONDALE		UNCLASSIFIED	4.5	375.5	SHALE ABOVE BRERETON LIMESTONE
117.0	CARBONDALE	BRERETON	LIMESTONE	1.0	380.0	
116.0	CARBONDALE	ANNA	BLACK SHALE	3.0	381.0	
113.0	CARBONDALE	HERRIN	COAL	5.0	384.0	

MAPID: 00500557000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 990' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.450191 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.76356 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 389.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	7.0	364.0	
126.0	CARBONDALE	LAWSON	SHALE	10.0	371.0	
116.0	CARBONDALE	ANNA	SHALE	2.0	381.0	
114.0	CARBONDALE	HERRIN	COAL	6.0	383.0	

MAPID: 00500758000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.447897 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.756373 **DATE COLLECTED:** 5 / 0 / 1958

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 396.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR DRILLING CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
139.0	MODESTO	PIASA	LIMESTONE	4.5	350.0	
134.5	MODESTO		UNCLASSIFIED	4.0	354.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
130.5	CARBONDALE		UNCLASSIFIED	14.5	358.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
116.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	373.0	
109.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	380.0	
106.0	CARBONDALE		UNCLASSIFIED	3.0	383.0	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	2.0	386.0	
101.0	CARBONDALE	ANNA	BLACK SHALE	3.0	388.0	
98.0	CARBONDALE	HERRIN	COAL	5.0	391.0	

MAPID: 00523001000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** NW NW NW NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.464871 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.769341 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 382.4 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY IF-773 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.4	377.0	

MAPID: 00500687000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.466565 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.750585 **DATE COLLECTED:** 9 / 0 / 1951

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 383.5 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.1	MODESTO	PIASA	LIMESTONE	5.0	335.9	
145.1	MODESTO		UNCLASSIFIED	5.0	340.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
140.1	CARBONDALE		UNCLASSIFIED	16.0	345.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
124.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	361.9	
117.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	368.9	
114.8	CARBONDALE		UNCLASSIFIED	2.3	371.2	SHALE ABOVE BRERETON LIMESTONE
112.5	CARBONDALE	BRERETON	LIMESTONE	2.0	373.5	
110.5	CARBONDALE	ANNA	BLACK SHALE	2.5	375.5	
108.0	CARBONDALE	HERRIN	COAL	5.5	378.0	

MAPID: 00500687000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.466565 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.750585 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 383.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.0	MODESTO	PIASA	LIMESTONE	5.5	336.0	
144.5	MODESTO		SHALE	12.0	341.5	
132.5	CARBONDALE	DANVILLE	COAL	2.0	353.5	
130.5	CARBONDALE		SHALE	7.0	355.5	
123.5	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	7.0	362.5	
116.5	CARBONDALE	LAWSON	SHALE	7.0	369.5	
109.5	CARBONDALE	ANNA	BLACK SHALE	2.5	376.5	
108.0	CARBONDALE	HERRIN	COAL	5.0	378.0	

MAPID: 00523002000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SW SW SW
QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.481527 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.740948 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 379.8 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-25 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.8	373.0	

MAPID: 00500558000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 990' S line, 2310' E line
QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.45489 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.743414 **DATE COLLECTED:** 9 / 0 / 1951
SURFACE ELEVATION (FT.): 611.0 **LOGGED (FT.):** 514.0 **LOG TYPE:** Electric Log
SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	3.0	469.0	
139.0	MODESTO		UNCLASSIFIED	5.0	472.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
134.0	CARBONDALE		UNCLASSIFIED	12.0	477.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
122.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	489.0	
114.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	497.0	
110.5	CARBONDALE		UNCLASSIFIED	3.5	500.5	SHALE ABOVE BRERETON LIMESTONE
107.0	CARBONDALE	BRERETON	LIMESTONE	2.0	504.0	
105.0	CARBONDALE	ANNA	BLACK SHALE	2.0	506.0	
103.0	CARBONDALE	HERRIN	COAL	6.0	508.0	

MAPID: 00500558000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 990' S line, 2310' E line

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.45489 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.743414 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 387.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	3.0	341.0	
139.0	MODESTO		SHALE	14.0	344.0	
125.0	CARBONDALE		SHALE	3.0	358.0	
122.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	9.0	361.0	
113.0	CARBONDALE	LAWSON	SHALE	9.0	370.0	
104.0	CARBONDALE	BRERETON	LIMESTONE	4.0	379.0	
101.0	CARBONDALE	HERRIN	COAL	5.0	382.0	

MAPID: 00500915000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.450248 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.747159 **DATE COLLECTED:** 8 / 0 / 1961

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 385.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.0	MODESTO	PIASA	LIMESTONE	5.0	336.0	
141.0	MODESTO		UNCLASSIFIED	4.0	341.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
137.0	CARBONDALE	DANVILLE	COAL	1.0	345.0	
136.0	CARBONDALE		UNCLASSIFIED	16.0	346.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
120.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	362.0	
112.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	370.0	
109.5	CARBONDALE		UNCLASSIFIED	2.5	372.5	SHALE ABOVE BRERETON LIMESTONE
107.0	CARBONDALE	BRERETON	LIMESTONE	2.0	375.0	
105.0	CARBONDALE	ANNA	BLACK SHALE	3.0	377.0	
102.0	CARBONDALE	HERRIN	COAL	5.0	380.0	

MAPID: 00501015000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.452568 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.752623 **DATE COLLECTED:** 8 / 0 / 1951

SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 381.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	3.0	336.0	
144.0	MODESTO		UNCLASSIFIED	4.5	339.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.5	CARBONDALE	DANVILLE	COAL	1.5	343.5	
138.0	CARBONDALE		UNCLASSIFIED	15.0	345.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
123.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	360.0	
116.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	367.0	
114.0	CARBONDALE		UNCLASSIFIED	2.0	369.0	SHALE ABOVE BRERETON LIMESTONE
112.0	CARBONDALE	BRERETON	LIMESTONE	2.0	371.0	
110.0	CARBONDALE	ANNA	BLACK SHALE	3.0	373.0	
107.0	CARBONDALE	HERRIN	COAL	5.0	376.0	

MAPID: 00500566000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** 2310' N line, 330' E line

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.429133 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.749135 **DATE COLLECTED:** 1 / 0 / 1951

SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 388.0 **LOG TYPE:** Electric Log

SOURCE: NICKERSON JAMES C **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.1	MODESTO	PIASA	LIMESTONE	4.0	333.9	
146.1	MODESTO		UNCLASSIFIED	4.0	337.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
142.1	CARBONDALE	DANVILLE	COAL	2.0	341.9	
140.1	CARBONDALE		UNCLASSIFIED	16.0	343.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
124.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	359.9	
114.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	369.4	
111.8	CARBONDALE		UNCLASSIFIED	2.8	372.2	SHALE ABOVE BRERETON LIMESTONE
109.0	CARBONDALE	BRERETON	LIMESTONE	3.0	375.0	
106.0	CARBONDALE	ANNA	BLACK SHALE	4.0	378.0	
102.0	CARBONDALE	HERRIN	COAL	6.0	382.0	

MAPID: 00500566000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** 2310' N line, 330' E line

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.429133 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.749135 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 392.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
128.5	CARBONDALE	DANVILLE	COAL	0.5	355.5	
128.0	CARBONDALE		SHALE	2.0	356.0	
126.0	CARBONDALE		SILTY SHALE	6.0	358.0	
120.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	10.0	364.0	
110.0	CARBONDALE	LAWSON	SHALE	6.0	374.0	
104.0	CARBONDALE	BRERETON	LIMESTONE	2.5	380.0	
101.5	CARBONDALE	ANNA	BLACK SHALE	3.5	382.5	
98.0	CARBONDALE	HERRIN	COAL	6.0	386.0	

MAPID: 00501017000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.440881 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.747215 **DATE COLLECTED:** 7 / 0 / 1952

SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 385.0 **LOG TYPE:** Electric Log

SOURCE: HOCKMAN, JAMES N. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.6	MODESTO	PIASA	LIMESTONE	3.5	336.4	
143.1	MODESTO		UNCLASSIFIED	4.0	339.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.1	CARBONDALE	DANVILLE	COAL	2.0	343.9	
137.1	CARBONDALE		UNCLASSIFIED	15.0	345.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
122.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	360.9	
114.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	368.9	
111.3	CARBONDALE		UNCLASSIFIED	2.8	371.7	SHALE ABOVE BRERETON LIMESTONE
108.5	CARBONDALE	BRERETON	LIMESTONE	1.5	374.5	
107.0	CARBONDALE	ANNA	BLACK SHALE	4.0	376.0	
103.0	CARBONDALE	HERRIN	COAL	5.0	380.0	

MAPID: 00501019000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.443215 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.750874 **DATE COLLECTED:** 5 / 0 / 1952

SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 361.0 **LOG TYPE:** Electric Log

SOURCE: NICKERSON JAMES C **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	4.0	311.0	
145.0	MODESTO		UNCLASSIFIED	4.0	315.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
141.0	CARBONDALE	DANVILLE	COAL	2.0	319.0	
139.0	CARBONDALE		UNCLASSIFIED	14.0	321.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
125.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	335.0	
118.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0	342.0	
113.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	347.0	
112.0	CARBONDALE		UNCLASSIFIED	3.0	348.0	SHALE ABOVE BRERETON LIMESTONE
109.0	CARBONDALE	BRERETON	LIMESTONE	3.0	351.0	
106.0	CARBONDALE	ANNA	BLACK SHALE	2.0	354.0	
104.0	CARBONDALE	HERRIN	COAL	5.0	356.0	

MAPID: 00523003000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** NE NE NW NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433294 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.755043 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 399.1 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-42 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.1	392.0	

MAPID: 00570000000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 34 **QUARTERS/FOOTAGES:** 2320' N line, 2310' W line

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.419825 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.749165 **DATE COLLECTED:** 0 / 0 / 1951

SURFACE ELEVATION (FT.): 479.0 **LOGGED (FT.):** 827.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 02C1021 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
479.0			UNCLASSIFIED	452.0	0.0	
27.0	CARBONDALE	SPRINGFIELD	COAL	2.0	452.0	
25.0			UNCLASSIFIED	191.0	454.0	
-166.0			COAL	2.0	645.0	
-168.0			UNCLASSIFIED	180.0	647.0	

MAPID: 00500526000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.379949 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.751163 **DATE COLLECTED:** 12 / 0 / 1956

SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 407.0 **LOG TYPE:** Electric Log

SOURCE: SKILES OIL CORP **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
115.0	MODESTO	PIASA	LIMESTONE	6.0	354.0	
109.0	MODESTO		UNCLASSIFIED	4.5	360.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.5	CARBONDALE	DANVILLE	COAL	1.0	364.5	
103.5	CARBONDALE		UNCLASSIFIED	15.5	365.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
88.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	381.0	
82.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	387.0	
77.5	CARBONDALE		UNCLASSIFIED	4.5	391.5	SHALE ABOVE BRERETON LIMESTONE
73.0	CARBONDALE	BRERETON	LIMESTONE	3.0	396.0	
70.0	CARBONDALE	ANNA	BLACK SHALE	3.0	399.0	
67.0	CARBONDALE	HERRIN	COAL	5.0	402.0	

MAPID: 00500552000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.379971 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.742019 **DATE COLLECTED:** 8 / 0 / 1949

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

SOURCE: KERWIN THOMAS R **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	4.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.5		
-	CARBONDALE		UNCLASSIFIED	15.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5		
-	CARBONDALE		UNCLASSIFIED	3.5		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.5		
-	CARBONDALE	ANNA	BLACK SHALE	3.5		
-	CARBONDALE	HERRIN	COAL	5.5		ELEVATION OF HERRIN = 64

MAPID: 00501024000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 1650' E line

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.377645 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.742031 **DATE COLLECTED:** 5 / 0 / 1951

SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 429.0 **LOG TYPE:** Electric Log

SOURCE: VENUTO A R **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
109.0	MODESTO	PIASA	LIMESTONE	3.0	374.0	
106.0	MODESTO		UNCLASSIFIED	5.0	377.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
101.0	CARBONDALE	DANVILLE	COAL	2.0	382.0	
99.0	CARBONDALE		UNCLASSIFIED	16.0	384.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
83.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	400.0	
77.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0	406.0	
72.0	CARBONDALE	CONANT	UNCLASSIFIED	1.5	411.0	
70.5	CARBONDALE		UNCLASSIFIED	3.5	412.5	SHALE ABOVE BRERETON LIMESTONE
67.0	CARBONDALE	BRERETON	LIMESTONE	6.0	416.0	
61.0	CARBONDALE	ANNA	BLACK SHALE	2.0	422.0	
59.0	CARBONDALE	HERRIN	COAL	5.0	424.0	

MAPID: 00501024000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 1650' E line

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.377645 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.742031 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 430.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
109.0	MODESTO	PIASA	LIMESTONE	2.0	374.0	
107.0	MODESTO		SHALE	17.0	376.0	
90.0	CARBONDALE	DANVILLE	COAL	1.0	393.0	
89.0	CARBONDALE		SHALE	6.0	394.0	
83.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	400.0	LOWER BENCH
77.0	CARBONDALE	LAWSON	SHALE	9.0	406.0	
68.0	CARBONDALE	BRERETON	LIMESTONE	7.0	415.0	
61.0	CARBONDALE	ANNA	SHALE	2.0	422.0	
59.0	CARBONDALE	HERRIN	COAL	6.0	424.0	

MAPID: 00501026000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE

QUADRANGLE: STOLLETOWN **LONGITUDE:** -89.375301 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.745683 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 498.0 **LOGGED (FT.):** 430.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.5	MODESTO	PIASA	LIMESTONE	2.0	378.5	
117.5	MODESTO		UNCLASSIFIED	3.5	380.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
114.0	CARBONDALE	DANVILLE	COAL	1.5	384.0	
112.5	CARBONDALE		UNCLASSIFIED	19.0	385.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
93.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	404.5	
86.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	411.5	
83.0	CARBONDALE		UNCLASSIFIED	3.5	415.0	SHALE ABOVE BRERETON LIMESTONE
79.5	CARBONDALE	BRERETON	LIMESTONE	4.0	418.5	
75.5	CARBONDALE	ANNA	BLACK SHALE	2.5	422.5	
73.0	CARBONDALE	HERRIN	COAL	5.0	425.0	

MAPID: 00501029000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 0' N line, 330' E line of SE

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.372941 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.748411 **DATE COLLECTED:** 2 / 0 / 1952

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

SOURCE: CONREY, T. M. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	6.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	14.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	6.0		
-	CARBONDALE	CONANT	UNCLASSIFIED	1.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.0		
-	CARBONDALE	ANNA	BLACK SHALE	3.0		
-	CARBONDALE	HERRIN	COAL	5.0		ELEVATION OF HERRIN = 70

MAPID: 00501030000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 610' N line, 380' E line of SE NE SE

QUADRANGLE: KEYESPORT **LONGITUDE:** -89.373145 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.744911 **DATE COLLECTED:** 1 / 0 / 1953

SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
114.0	MODESTO	PIASA	LIMESTONE	4.0	367.0	
110.0	MODESTO		UNCLASSIFIED	5.0	371.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.0	CARBONDALE	DANVILLE	COAL	2.0	376.0	
103.0	CARBONDALE		UNCLASSIFIED	15.5	378.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
87.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	393.5	
80.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	401.0	
76.5	CARBONDALE		UNCLASSIFIED	3.5	404.5	SHALE ABOVE BRERETON LIMESTONE
73.0	CARBONDALE	BRERETON	LIMESTONE	2.0	408.0	
71.0	CARBONDALE	ANNA	BLACK SHALE	4.0	410.0	
67.0	CARBONDALE	HERRIN	COAL	6.0	414.0	

MAPID: 00500612000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 1 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.490537 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.821646 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 541.0 **LOGGED (FT.):** 418.0 **LOG TYPE:** Electric Log

SOURCE: CONREY, T. M. **WELL TYPE:** Producer-Gas

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
171.0	MODESTO	PIASA	LIMESTONE	5.0	370.0	
166.0	MODESTO		UNCLASSIFIED	3.5	375.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
162.5	CARBONDALE	DANVILLE	COAL	1.5	378.5	
161.0	CARBONDALE		UNCLASSIFIED	17.5	380.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
143.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	397.5	
138.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	403.0	
135.5	CARBONDALE		UNCLASSIFIED	2.5	405.5	SHALE ABOVE BRERETON LIMESTONE
133.0	CARBONDALE	BRERETON	LIMESTONE	2.0	408.0	
131.0	CARBONDALE	ANNA	BLACK SHALE	2.0	410.0	
129.0	CARBONDALE	HERRIN	COAL	6.0	412.0	

MAPID: 00500612000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 1 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.490537 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.821646 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 541.0 **LOGGED (FT.):** 416.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
171.0	MODESTO	PIASA	LIMESTONE	5.0	370.0	
166.0	MODESTO		SHALE	13.0	375.0	
153.0	CARBONDALE	DANVILLE	COAL	2.0	388.0	
151.0	CARBONDALE		SHALE	7.5	390.0	
143.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	397.5	
138.5	CARBONDALE	LAWSON	SHALE	7.0	402.5	
131.5	CARBONDALE	ANNA	SHALE	2.0	409.5	
129.0	CARBONDALE	HERRIN	COAL	4.0	412.0	

MAPID: 00523004000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 1 **QUARTERS/FOOTAGES:** NE NE NE NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.485465 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.827454 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 440.6 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-7 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.6	434.0	

MAPID: 00500307000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 2 **QUARTERS/FOOTAGES:** 410' N line, 330' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.521129 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.827552 **DATE COLLECTED:** 9 / 0 / 1955

SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 359.0 **LOG TYPE:** Electric Log

SOURCE: PARTLOW & COCHONOUR **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
164.4	MODESTO	PIASA	LIMESTONE	3.0	313.6	
161.4	MODESTO		UNCLASSIFIED	5.0	316.6	INTERVAL ABOVE DANVILLE, BELOW PIASA
156.4	CARBONDALE	DANVILLE	COAL	2.0	321.6	
154.4	CARBONDALE		UNCLASSIFIED	17.4	323.6	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
137.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	341.0	
130.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	348.0	
128.0	CARBONDALE		UNCLASSIFIED	2.0	350.0	SHALE ABOVE BRERETON LIMESTONE
126.0	CARBONDALE	BRERETON	LIMESTONE	1.0	352.0	
125.0	CARBONDALE	ANNA	BLACK SHALE	1.0	353.0	
124.0	CARBONDALE	HERRIN	COAL	5.0	354.0	

MAPID: 00500078000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1650' S line, 1650' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.53497 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.819562 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 386.6 **LOG TYPE:** Drillers Log

SOURCE: SULLIVAN MACHINE CO **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.6	MODESTO	PIASA	LIMESTONE	3.0	343.4	
143.6	MODESTO		UNCLASSIFIED	5.3	346.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
138.3	CARBONDALE	DANVILLE	COAL	1.5	351.7	
136.8	CARBONDALE		UNCLASSIFIED	10.2	353.2	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
126.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	363.4	
119.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	370.4	
117.1	CARBONDALE		UNCLASSIFIED	2.4	372.9	SHALE ABOVE BRERETON LIMESTONE
114.7	CARBONDALE	BRERETON	LIMESTONE	2.5	375.3	
112.2	CARBONDALE	ANNA	BLACK SHALE	2.2	377.8	
110.0	CARBONDALE	HERRIN	COAL	6.6	380.0	

MAPID: 00500078000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1650' S line, 1650' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.53497 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.819562 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 386.5 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.0	MODESTO	PIASA	LIMESTONE	3.7	335.0	
151.3	MODESTO		SHALE	12.6	338.7	
138.8	CARBONDALE	DANVILLE	BONE COAL	1.5	351.2	
137.3	CARBONDALE		CALCAREOUS SHALE	2.3	352.7	
134.9	CARBONDALE	BANKSTON FORK	LIMESTONE	3.8	355.1	UPPER BENCH
131.1	CARBONDALE	BANKSTON FORK	GRAY SHALE	4.0	358.9	SHALE PARTING
127.1	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	362.9	LOWER BENCH
120.1	CARBONDALE	LAWSON	SILTY SHALE	7.3	369.9	
112.8	CARBONDALE	JAMESTOWN	BONE COAL	0.3	377.2	
112.4	CARBONDALE	ANNA	BLACK SHALE	1.8	377.6	
110.0	CARBONDALE	HERRIN	COAL	6.5	380.0	

MAPID: 00500078000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1650' S line, 1650' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.53497 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.819562 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.3 **LOGGED (FT.):** 436.0 **LOG TYPE:**
SOURCE: SULLIVN MA **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
110.3	CARBONDALE	HERRIN	COAL	6.5	380.0	

MAPID: 00500763000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.523155 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.817224 **DATE COLLECTED:** 6 / 0 / 1958
SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 396.0 **LOG TYPE:** Electric Log
SOURCE: WILSON, ARNOLD **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
155.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	367.0	
146.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	376.0	
142.0	CARBONDALE		UNCLASSIFIED	4.0	380.0	SHALE ABOVE BRERETON LIMESTONE
138.0	CARBONDALE	BRERETON	LIMESTONE	5.0	384.0	
133.0	CARBONDALE	HERRIN	COAL	7.0	389.0	

MAPID: 00500868000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.523365 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.824316 **DATE COLLECTED:** 10 / 0 / 1959
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 400.0 **LOG TYPE:** Electric Log
SOURCE: GALLATIN, GRANT **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
173.0	MODESTO	PIASA	LIMESTONE	2.0	350.0	
171.0	MODESTO		UNCLASSIFIED	4.5	352.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
166.5	CARBONDALE		UNCLASSIFIED	15.5	356.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
151.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	372.0	
143.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	380.0	
140.0	CARBONDALE		UNCLASSIFIED	3.0	383.0	SHALE ABOVE BRERETON LIMESTONE
137.0	CARBONDALE	BRERETON	LIMESTONE	5.0	386.0	
132.0	CARBONDALE	ANNA	BLACK SHALE	3.0	391.0	
129.0	CARBONDALE	HERRIN	COAL	6.0	394.0	

MAPID: 00500620000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 1650' N line, 2310' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570463 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.825238 **DATE COLLECTED:** 2 / 0 / 1950

SURFACE ELEVATION (FT.): 547.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: PIERCE JACK M **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.1	MODESTO	PIASA	LIMESTONE	3.5	372.9	
170.6	MODESTO		UNCLASSIFIED	3.5	376.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
167.1	CARBONDALE	DANVILLE	COAL	2.0	379.9	
165.1	CARBONDALE		UNCLASSIFIED	20.0	381.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
145.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	401.9	
139.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	407.9	
135.8	CARBONDALE		UNCLASSIFIED	3.3	411.2	SHALE ABOVE BRERETON LIMESTONE
132.5	CARBONDALE	BRERETON	LIMESTONE	1.5	414.5	
131.0	CARBONDALE	ANNA	BLACK SHALE	2.0	416.0	
129.0	CARBONDALE	HERRIN	COAL	6.0	418.0	

MAPID: 00500620000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 1650' N line, 2310' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570463 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.825238 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 547.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.0	MODESTO	PIASA	LIMESTONE	3.5	373.0	
170.5	MODESTO		SHALE	14.0	376.5	
156.5	CARBONDALE	DANVILLE	COAL	1.5	390.5	
155.0	CARBONDALE		SHALE	8.0	392.0	
147.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	8.0	400.0	
139.0	CARBONDALE	LAWSON	SILTY SHALE	6.5	408.0	
132.5	CARBONDALE	BRERETON	LIMESTONE	1.0	414.5	
131.5	CARBONDALE	ANNA	BLACK SHALE	2.5	415.5	
129.0	CARBONDALE	HERRIN	COAL	6.0	418.0	

MAPID: 00523005000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 50' N line, 220' E line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.560977 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.829446 **DATE COLLECTED:** 8 / 10 / 1967
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 436.0 **LOG TYPE:** Other Core Study
SOURCE: H. M. WALLEY WF-40 **WELL TYPE:** Coal Test
COMMENT: CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
124.0	CARBONDALE	HERRIN	COAL	6.8	426.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.4		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523006000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 35' N line, 90' E line of NW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.574184 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.823094 **DATE COLLECTED:** 12 / 9 / 1969
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 445.2 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-318 **WELL TYPE:** Coal Test
COMMENT: CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
118.6	CARBONDALE	HERRIN	COAL	6.5	426.4	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.5		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500136000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 305' S line, 320' W line of SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.59774 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.817287 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 551.5 **LOGGED (FT.):** 2108.0 **LOG TYPE:**
SOURCE: WEINSCHEL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
131.5	CARBONDALE	HERRIN	COAL	5.0	420.0	

MAPID: 00523007000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 75' N line, 20' W line of NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.588863 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.830002 **DATE COLLECTED:** 5 / 6 / 1974
SURFACE ELEVATION (FT.): 578.0 **LOGGED (FT.):** 474.4 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY 7B-825 **WELL TYPE:** Coal Test
COMMENT: CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.1	CARBONDALE	HERRIN	COAL	6.0	442.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523008000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** NE SW NE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.580336 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.820271 **DATE COLLECTED:** 6 / 2 / 1981
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES 1B-526 **WELL TYPE:** Coal Test
COMMENT: CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
124.4	CARBONDALE	HERRIN	COAL	6.5	420.6	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500079000C **VERSION:** 1 **PROJECT:** NCRDS88

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SW SW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.586425 **GEOLOGIST:** R. SMITH

CONFIDENTIAL: N **LATITUDE:** 38.810201 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 554.3 **LOGGED (FT.):** 436.0 **LOG TYPE:** Drillers Log

SOURCE: CRANBY MINING & S. CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
554.3			UNCONSOLIDATED	56.0	0.0	
498.3	BOND		SANDY SHALE	21.0	56.0	
477.3	BOND	CARTHAGE	LIMESTONE	6.0	77.0	
471.3	MODESTO		CALCAREOUS SHALE	53.0	83.0	
418.3	MODESTO		SANDY SHALE	8.0	136.0	
410.3	MODESTO		LIMESTONE	3.0	144.0	
407.3	MODESTO		SHALE	3.0	147.0	
404.3	MODESTO		COAL	2.2	150.0	
402.1	MODESTO		SHALE	68.8	152.2	
333.3	MODESTO		LIMESTONE	4.0	221.0	
329.3	MODESTO		CALCAREOUS SHALE	20.0	225.0	
309.3	MODESTO		SANDY SHALE	4.0	245.0	
305.3	MODESTO		LIMESTONE	2.3	249.0	
303.0	MODESTO		COAL	1.0	251.3	
302.0	MODESTO		SANDSTONE/SHALE	31.8	252.3	
270.3	MODESTO		SHALE & SANDSTONE	49.0	284.0	
221.3	MODESTO		SHALE	22.0	333.0	
199.3	MODESTO		SANDSTONE	5.0	355.0	
194.3	MODESTO		SHALE	12.0	360.0	
182.3	MODESTO		CONGLOMERATE	5.0	372.0	
177.3	MODESTO		SHALE	16.0	377.0	
161.3	MODESTO		DARK SHALE	4.0	393.0	
157.3	CARBONDALE	DANVILLE	COAL	1.8	397.0	
155.5	CARBONDALE		SHALE	5.2	398.8	
150.3	CARBONDALE	BANKSTON FORK	LIMESTONE	8.0	404.0	
142.3	CARBONDALE		SHALE	6.0	412.0	
136.3	CARBONDALE	BRERETON	LIMESTONE	5.1	418.0	
131.2	CARBONDALE		SHALE/COAL	0.2	423.1	
131.0	CARBONDALE	HERRIN	COAL	6.9	423.3	
124.1	CARBONDALE		SHALE	5.8	430.2	

MAPID: 00500079000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SW SW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.586425 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.810201 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 429.9 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
171.0	MODESTO	PIASA	CALCAREOUS SHALE	3.0	377.0	
168.0	MODESTO		DARK GRAY SHALE	17.0	380.0	
151.0	CARBONDALE	DANVILLE	COAL	1.8	397.0	
149.2	CARBONDALE		BLACK SHALE	0.2	398.8	
149.0	CARBONDALE		SHALE	5.0	399.0	
144.0	CARBONDALE	BANKSTON FORK	LIMESTONE	8.0	404.0	LOWER BENCH
136.0	CARBONDALE	LAWSON	SHALE	6.0	412.0	
130.0	CARBONDALE	BRERETON	LIMESTONE	5.1	418.0	
124.9	CARBONDALE	ANNA	BONE COAL	0.2	423.1	
125.0	CARBONDALE	HERRIN	COAL	6.9	423.0	

MAPID: 00500079000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SW SW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.586425 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.810201 **DATE COLLECTED:** 1 / 0 / 1910

SURFACE ELEVATION (FT.): 554.0 **LOGGED (FT.):** 435.1 **LOG TYPE:** Drillers Log

SOURCE: PRENTICE DRLG **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.1	MODESTO	PIASA	LIMESTONE	3.0	381.9	
169.1	MODESTO		UNCLASSIFIED	6.0	384.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
163.1	CARBONDALE		UNCLASSIFIED	18.0	390.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
145.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	408.9	
137.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	416.9	
134.1	CARBONDALE		UNCLASSIFIED	3.0	419.9	SHALE ABOVE BRERETON LIMESTONE
131.1	CARBONDALE	BRERETON	LIMESTONE	5.1	422.9	
126.0	CARBONDALE	HERRIN	COAL	7.1	428.0	

MAPID: 00500079000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SW SW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.586425 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.810201 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 554.4 **LOGGED (FT.):** 436.0 **LOG TYPE:**
SOURCE: GRANBY MC **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
131.4	CARBONDALE	HERRIN	COAL	7.1	423.0	

MAPID: 00523009000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 202' N line, 36' W line of NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.598716 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.815911 **DATE COLLECTED:** 4 / 30 / 1969
SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 433.4 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-215A **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
136.2	CARBONDALE	HERRIN	COAL	6.9	415.8	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523010000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 13' S line, 67' E line of NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.573654 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.812247 **DATE COLLECTED:** 5 / 5 / 1969
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 463.7 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-217 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
123.7	CARBONDALE	HERRIN	COAL	7.1	424.3	CLEAN COAL-SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523011000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 28' S line, 121' W line of SE SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.572524 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.801188 **DATE COLLECTED:** 5 / 27 / 1969
SURFACE ELEVATION (FT.): 563.0 **LOGGED (FT.):** 453.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-235 **WELL TYPE:** Coal Test
COMMENT: CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
123.2	CARBONDALE	HERRIN	COAL	6.9	439.8	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500902000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.534458 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.802989 **DATE COLLECTED:** 8 / 0 / 1960
SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 400.0 **LOG TYPE:** Electric Log
SOURCE: EAST CENT. DEV. CO., INC **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
129.0	CARBONDALE	HERRIN	COAL	5.0	395.0	

MAPID: 00500269000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** 990' N line, 990' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.518358 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.81167 **DATE COLLECTED:** 5 / 0 / 1955
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log
SOURCE: PARTLOW & COCHONOUR **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
170.0	MODESTO	PIASA	LIMESTONE	5.0	348.0	
165.0	MODESTO		UNCLASSIFIED	6.0	353.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
159.0	CARBONDALE		UNCLASSIFIED	17.0	359.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
142.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	376.0	
135.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	383.0	
133.0	CARBONDALE		UNCLASSIFIED	2.0	385.0	SHALE ABOVE BRERETON LIMESTONE
131.0	CARBONDALE	BRERETON	LIMESTONE	1.0	387.0	
130.0	CARBONDALE	ANNA	BLACK SHALE	1.0	388.0	
129.0	CARBONDALE	HERRIN	COAL	5.0	389.0	

MAPID: 00500269000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** 990' N line, 990' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.518358 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.81167 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	376.0	
136.0	CARBONDALE	LAWSON	SHALE	4.0	382.0	
132.0	CARBONDALE	ANNA	SHALE	2.0	386.0	
130.0	CARBONDALE	HERRIN	COAL	6.0	388.0	

MAPID: 00500621000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.520504 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.802653 **DATE COLLECTED:** 3 / 0 / 1955
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 392.0 **LOG TYPE:** Electric Log
SOURCE: BAKER, B. A. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.1	MODESTO	PIASA	LIMESTONE	4.0	344.9	
177.1	MODESTO		UNCLASSIFIED	6.0	348.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
171.1	CARBONDALE		UNCLASSIFIED	17.0	354.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	371.9	
147.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	378.9	
145.3	CARBONDALE		UNCLASSIFIED	1.8	380.7	SHALE ABOVE BRERETON LIMESTONE
143.5	CARBONDALE	BRERETON	LIMESTONE	1.0	382.5	
142.5	CARBONDALE	ANNA	BLACK SHALE	2.5	383.5	
140.0	CARBONDALE	HERRIN	COAL	6.0	386.0	

MAPID: 00523012000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** SW SW SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.50704 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.799921 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 322.0 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY IF-797 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.0	316.0	

MAPID: 00500473000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 13 **QUARTERS/FOOTAGES:** 990' N line, 2310' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.494714 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.796344 **DATE COLLECTED:** 7 / 0 / 1956

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 332.0 **LOG TYPE:** Electric Log

SOURCE: MONKEN, LELAND **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.0	MODESTO	PIASA	LIMESTONE	3.0	282.0	
178.0	MODESTO		UNCLASSIFIED	7.0	285.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
171.0	CARBONDALE		UNCLASSIFIED	21.0	292.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	313.0	
144.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	319.0	
142.0	CARBONDALE		UNCLASSIFIED	2.0	321.0	SHALE ABOVE BRERETON LIMESTONE
140.0	CARBONDALE	BRERETON	LIMESTONE	1.5	323.0	
138.5	CARBONDALE	ANNA	BLACK SHALE	1.5	324.5	
137.0	CARBONDALE	HERRIN	COAL	6.0	326.0	

MAPID: 00500473000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 13 **QUARTERS/FOOTAGES:** 990' N line, 2310' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.494714 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.796344 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 331.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
151.5	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	6.5	311.5	
145.0	CARBONDALE	LAWSON	SHALE	6.0	318.0	
139.0	CARBONDALE	ANNA	SHALE	1.0	324.0	
138.0	CARBONDALE	HERRIN	COAL	6.0	325.0	

MAPID: 00501332000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 14 **QUARTERS/FOOTAGES:** 660' S line, 1650' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.515145 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.786953 **DATE COLLECTED:** 9 / 0 / 1968

SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 336.0 **LOG TYPE:** Electric Log

SOURCE: PHOENIX PROD. CO., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.0	CARBONDALE	HERRIN	COAL	6.0	330.0	

MAPID: 00523013000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** NE NE NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.540757 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.799865 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 412.2 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-1 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.2	405.0	

MAPID: 00500622000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 1650' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.571148 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.787305 **DATE COLLECTED:** 1 / 0 / 1947
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 392.0 **LOG TYPE:** Electric Log
SOURCE: THOMPSON B F **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
182.0	MODESTO	PIASA	LIMESTONE	2.0	344.0	
180.0	MODESTO		UNCLASSIFIED	5.0	346.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
175.0	CARBONDALE		UNCLASSIFIED	19.0	351.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
156.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	370.0	
148.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	378.0	
145.5	CARBONDALE		UNCLASSIFIED	2.5	380.5	SHALE ABOVE BRERETON LIMESTONE
143.0	CARBONDALE	BRERETON	LIMESTONE	1.0	383.0	
142.0	CARBONDALE	ANNA	BLACK SHALE	1.0	384.0	
141.0	CARBONDALE	HERRIN	COAL	7.0	385.0	

MAPID: 00500622000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 1650' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.571148 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.787305 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
170.5	CARBONDALE	DANVILLE	COAL	1.5	355.5	
169.0	CARBONDALE		SHALE	12.0	357.0	
157.0	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	6.0	369.0	
151.0	CARBONDALE	LAWSON	SHALE	7.0	375.0	
144.0	CARBONDALE	ANNA	SHALE	2.0	382.0	
142.0	CARBONDALE	HERRIN	COAL	6.0	384.0	

MAPID: 00523016000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 48' N line, 95' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.598219 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.801595 **DATE COLLECTED:** 5 / 31 / 1967
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 399.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-31 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
148.7	CARBONDALE	HERRIN	COAL	6.7	386.3	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.4		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523014000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.575732 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.785563 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 406.8 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-2 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.8	400.0	

MAPID: 00500080000C **VERSION:** 1 **PROJECT:** NCRDS88

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' N line, 330' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.557039 **GEOLOGIST:** R. SMITH

CONFIDENTIAL: N **LATITUDE:** 38.783385 **DATE COLLECTED:** 0 / 0 / 1910

SURFACE ELEVATION (FT.): 508.6 **LOGGED (FT.):** 368.0 **LOG TYPE:** Drillers Log

SOURCE: CRANBY M.& S. CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
508.6			UNCONSOLIDATED	10.0	0.0	
498.6	BOND		SANDSTONE	10.0	10.0	
488.6	BOND		SHALE	38.0	20.0	
450.6	BOND	CARTHAGE	LIMESTONE	4.0	58.0	UNCERTAIN CORRELATION
446.6	MODESTO		SANDY SHALE	22.8	62.0	
423.8	MODESTO		COAL	0.8	84.8	
423.0	MODESTO		SHALE	14.4	85.6	
408.6	MODESTO		LIMESTONE	3.0	100.0	
405.6	MODESTO		SHALE	35.0	103.0	
370.6	MODESTO		SHALE & SANDSTONE	12.0	138.0	
358.6	MODESTO		SHALE	37.0	150.0	
321.6	MODESTO		LIMESTONE	1.0	187.0	
320.6	MODESTO		BLACK SHALE	6.0	188.0	
314.6	MODESTO		LIMESTONE	1.0	194.0	
313.6	MODESTO		COAL	1.1	195.0	
312.5	MODESTO		SHALE	3.9	196.1	
308.6	MODESTO		SANDY SHALE	20.0	200.0	
288.6	MODESTO		SANDSTONE	15.0	220.0	
273.6	MODESTO		SANDY SHALE	55.0	235.0	
218.6	MODESTO		SANDSTONE	7.0	290.0	
211.6	MODESTO		SHALE	6.0	297.0	
205.6	MODESTO		CONGLOMERATE	6.0	303.0	
199.6	MODESTO		SHALE	25.3	309.0	
174.3	CARBONDALE	DANVILLE	COAL	1.8	334.3	
172.6	CARBONDALE		SHALE	6.0	336.0	
166.6	CARBONDALE		LIMESTONE	9.2	342.0	BRERETON
157.4	CARBONDALE		SHALE	9.6	351.2	ANNA
147.8	CARBONDALE	HERRIN	COAL	5.6	360.8	
142.3	CARBONDALE	HERRIN	UNCLASSIFIED	0.1	366.3	SULPHUR
142.2	CARBONDALE	HERRIN	COAL	0.9	366.4	
141.3	CARBONDALE		BLUE SHALE	0.7	367.3	

MAPID: 00500080000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' N line, 330' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.557039 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.783385 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 371.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.4	CARBONDALE	DANVILLE	COAL	1.8	334.6	
172.7	CARBONDALE		SHALE	6.0	336.3	
166.7	CARBONDALE	BANKSTON FORK	LIMESTONE	9.2	342.3	
157.5	CARBONDALE	LAWSON	SHALE	7.0	351.5	
150.5	CARBONDALE	BRERETON	LIMESTONE	1.5	358.5	
149.0	CARBONDALE	ANNA	SHALE	1.0	360.0	
148.0	CARBONDALE	HERRIN	COAL	10.5	361.0	

MAPID: 00500080000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' N line, 330' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.557039 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.783385 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 367.6 **LOG TYPE:** Drillers Log
SOURCE: GRANBY M & S CO **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.6	CARBONDALE		UNCLASSIFIED	7.8	334.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.8	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.2	342.2	
157.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	351.4	
154.1	CARBONDALE		UNCLASSIFIED	3.5	354.9	SHALE ABOVE BRERETON LIMESTONE
150.6	CARBONDALE	BRERETON	LIMESTONE	2.6	358.4	
148.0	CARBONDALE	HERRIN	COAL	6.6	361.0	

MAPID: 00500080000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' N line, 330' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.557039 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.783385 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 508.6 **LOGGED (FT.):** 368.0 **LOG TYPE:**
SOURCE: GRANBY MC **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.6	CARBONDALE	HERRIN	COAL	6.6	361.0	

MAPID: 00500589000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 990' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.523944 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.771525 **DATE COLLECTED:** 11 / 0 / 1952

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 385.0 **LOG TYPE:** Electric Log

SOURCE: GIBSON H F **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
190.0	MODESTO	PIASA	LIMESTONE	2.0	337.0	
188.0	MODESTO		UNCLASSIFIED	6.0	339.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.0	CARBONDALE		UNCLASSIFIED	15.0	345.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
167.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	360.0	
160.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	367.0	
155.5	CARBONDALE		UNCLASSIFIED	4.5	371.5	SHALE ABOVE BRERETON LIMESTONE
151.0	CARBONDALE	BRERETON	LIMESTONE	2.0	376.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	2.0	378.0	
147.0	CARBONDALE	HERRIN	COAL	5.0	380.0	

MAPID: 00500589000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 990' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.523944 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.771525 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 389.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
200.0	MODESTO	PIASA	LIMESTONE	3.5	327.0	
196.5	MODESTO		SHALE	26.0	330.5	
170.5	CARBONDALE	DANVILLE	COAL	3.0	356.5	
167.5	CARBONDALE		SHALE	3.5	359.5	
164.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	363.0	LOWER BENCH
157.0	CARBONDALE	LAWSON	SHALE	13.0	370.0	
145.0	CARBONDALE	HERRIN	COAL	7.0	382.0	

MAPID: 00523015000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** SE SE SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.521016 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.770993 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 363.3 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-29 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.3	357.0	

MAPID: 00500731000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.503582 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.782049 **DATE COLLECTED:** 9 / 0 / 1957
SURFACE ELEVATION (FT.): 461.0 **LOGGED (FT.):** 326.0 **LOG TYPE:** Electric Log
SOURCE: EAST CENT. DEV. CO., INC **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
181.0	MODESTO	PIASA	LIMESTONE	5.0	280.0	
176.0	MODESTO		UNCLASSIFIED	4.0	285.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
172.0	CARBONDALE		UNCLASSIFIED	18.0	289.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	307.0	
146.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	315.0	
144.5	CARBONDALE		UNCLASSIFIED	1.5	316.5	SHALE ABOVE BRERETON LIMESTONE
143.0	CARBONDALE	BRERETON	LIMESTONE	2.0	318.0	
141.0	CARBONDALE	ANNA	BLACK SHALE	2.0	320.0	
139.0	CARBONDALE	HERRIN	COAL	4.0	322.0	

MAPID: 00500418000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** 0' N line, 0' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.502499 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.784776 **DATE COLLECTED:** 3 / 0 / 1956

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Electric Log

SOURCE: LAMPEN, EDWARD H. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
186.0	MODESTO	PIASA	LIMESTONE	4.0	304.0	
182.0	MODESTO		UNCLASSIFIED	5.0	308.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
177.0	CARBONDALE		UNCLASSIFIED	15.0	313.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
162.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	328.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	334.0	
152.0	CARBONDALE		UNCLASSIFIED	4.0	338.0	SHALE ABOVE BRERETON LIMESTONE
148.0	CARBONDALE	BRERETON	LIMESTONE	1.0	342.0	
147.0	CARBONDALE	ANNA	BLACK SHALE	2.0	343.0	
145.0	CARBONDALE	HERRIN	COAL	5.0	345.0	

MAPID: 00500418000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** 0' N line, 0' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.502499 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.784776 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 350.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
185.0	MODESTO	PIASA	LIMESTONE	4.0	305.0	
181.0	MODESTO		SHALE	12.0	309.0	
169.0	CARBONDALE	DANVILLE	COAL	2.5	321.0	
166.5	CARBONDALE		SHALE	5.0	323.5	
161.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	328.5	
155.5	CARBONDALE	LAWSON	SHALE	6.5	334.5	
149.0	CARBONDALE	ANNA	SHALE	2.0	341.0	
146.0	CARBONDALE	HERRIN	COAL	6.5	344.0	

MAPID: 00500448000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.494066 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.778161 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 346.5 **LOG TYPE:** Electric Log

SOURCE: LAMPEN, EDWARD H. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
190.0	MODESTO	PIASA	LIMESTONE	3.0	299.0	
187.0	MODESTO		UNCLASSIFIED	5.0	302.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.0	CARBONDALE		UNCLASSIFIED	16.0	307.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	323.0	
160.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	329.0	
156.0	CARBONDALE		UNCLASSIFIED	4.0	333.0	SHALE ABOVE BRERETON LIMESTONE
152.0	CARBONDALE	BRERETON	LIMESTONE	2.0	337.0	
150.0	CARBONDALE	ANNA	BLACK SHALE	2.0	339.0	
148.0	CARBONDALE	HERRIN	COAL	5.5	341.0	

MAPID: 00500721000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.501198 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.780168 **DATE COLLECTED:** 8 / 0 / 1957

SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 323.0 **LOG TYPE:** Electric Log

SOURCE: EAST CENT. DEV. CO., INC **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.0	MODESTO	PIASA	LIMESTONE	5.0	277.0	
176.0	MODESTO		UNCLASSIFIED	4.0	282.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
172.0	CARBONDALE		UNCLASSIFIED	17.0	286.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
155.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	303.0	
146.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	312.0	
143.5	CARBONDALE		UNCLASSIFIED	2.5	314.5	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	1.0	317.0	
140.0	CARBONDALE	ANNA	BLACK SHALE	1.0	318.0	
139.0	CARBONDALE	HERRIN	COAL	4.0	319.0	

MAPID: 00500976000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 660' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.500143 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.783815 **DATE COLLECTED:** 11 / 0 / 1963

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 324.0 **LOG TYPE:** Electric Log

SOURCE: FREY-MARINE OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	MODESTO	PIASA	LIMESTONE	3.0	276.0	
184.0	MODESTO		UNCLASSIFIED	6.0	279.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
178.0	CARBONDALE		UNCLASSIFIED	19.0	285.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
159.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	304.0	
154.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	309.0	
151.0	CARBONDALE		UNCLASSIFIED	3.0	312.0	SHALE ABOVE BRERETON LIMESTONE
148.0	CARBONDALE	BRERETON	LIMESTONE	3.0	315.0	
145.0	CARBONDALE	ANNA	BLACK SHALE	2.0	318.0	
143.0	CARBONDALE	HERRIN	COAL	4.0	320.0	

MAPID: 00523017000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NE NW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.498803 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.762207 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 313.6 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY IF-772 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.6	307.0	

MAPID: 00500613000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.507848 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.769318 **DATE COLLECTED:** 11 / 0 / 1944

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 319.0 **LOG TYPE:** Electric Log

SOURCE: UNION PRODUCTS PETRO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
190.0	MODESTO	PIASA	LIMESTONE	4.0	273.0	
186.0	MODESTO		UNCLASSIFIED	4.0	277.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.0	CARBONDALE		UNCLASSIFIED	17.0	281.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
165.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	298.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	307.0	
153.5	CARBONDALE		UNCLASSIFIED	2.5	309.5	SHALE ABOVE BRERETON LIMESTONE
151.0	CARBONDALE	BRERETON	LIMESTONE	1.0	312.0	
150.0	CARBONDALE	ANNA	BLACK SHALE	1.0	313.0	
149.0	CARBONDALE	HERRIN	COAL	5.0	314.0	

MAPID: 00500613000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.507848 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.769318 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 320.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	4.0	272.0	
187.0	MODESTO		SHALE	12.0	276.0	
175.0	CARBONDALE	DANVILLE	COAL	3.0	288.0	
172.0	CARBONDALE		SHALE	6.0	291.0	
166.0	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	297.0	
157.0	CARBONDALE	LAWSON	SHALE	5.0	306.0	
152.0	CARBONDALE	ANNA	SHALE	1.0	311.0	
150.0	CARBONDALE	HERRIN	COAL	7.0	313.0	

MAPID: 00500081000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 990' S line, 2310' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.528103 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.758836 **DATE COLLECTED:** 1 / 0 / 1910
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 323.6 **LOG TYPE:** Drillers Log
SOURCE: GRANBY M & S CO **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.7	CARBONDALE		UNCLASSIFIED	9.0	292.3	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
175.7	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	301.3	
165.7	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	311.3	
164.2	CARBONDALE		UNCLASSIFIED	1.5	312.8	SHALE ABOVE BRERETON LIMESTONE
162.7	CARBONDALE	ANNA	BLACK SHALE	1.7	314.3	
161.0	CARBONDALE	HERRIN	COAL	7.6	316.0	

MAPID: 00500081000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 990' S line, 2310' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.528103 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.758836 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 321.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.0	MODESTO	PIASA	CALCAREOUS SHALE	4.0	282.0	
191.0	MODESTO		BLACK SHALE	5.0	286.0	
186.0	CARBONDALE	DANVILLE	COAL	1.3	291.0	
184.7	CARBONDALE		CALCAREOUS SHALE	7.7	292.3	
177.0	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	300.0	
167.0	CARBONDALE	LAWSON	SHALE	3.0	310.0	
164.0	CARBONDALE	ANNA	DARK GRAY SHALE	1.7	313.0	
163.0	CARBONDALE	HERRIN	COAL	7.6	314.0	

MAPID: 00500081000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 990' S line, 2310' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.528103 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.758836 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 476.6 **LOGGED (FT.):** 323.0 **LOG TYPE:**
SOURCE: GRANBY MC **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.6	CARBONDALE	HERRIN	COAL	7.6	315.0	

MAPID: 00500112000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 4350' S line, 4995' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.556506 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.768731 **DATE COLLECTED:** 0 / 0 / 1938
SURFACE ELEVATION (FT.): 499.2 **LOGGED (FT.):** 1337.0 **LOG TYPE:**
SOURCE: FARRELLY J **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
152.2	CARBONDALE	HERRIN	COAL	8.0	347.0	

MAPID: 00500112000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 4350' S line, 4995' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.556506 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.768731 **DATE COLLECTED:** 0 / 0 / 1938
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 355.0 **LOG TYPE:** Drillers Log
SOURCE: FARRELLY JOHN J **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
194.0	MODESTO	PIASA	LIMESTONE	7.0	305.0	
187.0	MODESTO		UNCLASSIFIED	4.5	312.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.5	CARBONDALE		UNCLASSIFIED	13.5	316.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
169.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	330.0	
161.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	338.0	
159.5	CARBONDALE		UNCLASSIFIED	1.0	339.5	SHALE ABOVE BRERETON LIMESTONE
158.5	CARBONDALE	BRERETON	LIMESTONE	1.5	340.5	
157.0	CARBONDALE	ANNA	BLACK SHALE	5.0	342.0	
152.0	CARBONDALE	HERRIN	COAL	8.0	347.0	

MAPID: 00500535000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.549239 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.76483 **DATE COLLECTED:** 12 / 0 / 1956

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 357.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
204.0	MODESTO	PIASA	LIMESTONE	4.0	312.0	
200.0	MODESTO		UNCLASSIFIED	3.0	316.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
197.0	CARBONDALE		UNCLASSIFIED	16.0	319.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
181.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	335.0	
174.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	342.0	
171.0	CARBONDALE		UNCLASSIFIED	3.0	345.0	SHALE ABOVE BRERETON LIMESTONE
168.0	CARBONDALE	BRERETON	LIMESTONE	2.0	348.0	
166.0	CARBONDALE	ANNA	BLACK SHALE	2.0	350.0	
164.0	CARBONDALE	HERRIN	COAL	5.0	352.0	

MAPID: 00500727000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 2310' S line, 990' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542128 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.762843 **DATE COLLECTED:** 10 / 0 / 1957

SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 342.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	MODESTO	PIASA	LIMESTONE	5.0	298.0	
200.0	MODESTO		UNCLASSIFIED	3.5	303.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
196.5	CARBONDALE		UNCLASSIFIED	13.5	306.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
183.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	320.0	
176.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	327.0	
173.0	CARBONDALE		UNCLASSIFIED	2.5	330.0	SHALE ABOVE BRERETON LIMESTONE
170.5	CARBONDALE	BRERETON	LIMESTONE	1.5	332.5	
169.0	CARBONDALE	ANNA	BLACK SHALE	2.0	334.0	
167.0	CARBONDALE	HERRIN	COAL	6.0	336.0	

MAPID: 00500727000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 2310' S line, 990' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542128 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.762843 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 342.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	MODESTO	PIASA	LIMESTONE	4.0	298.0	
201.0	MODESTO		SHALE	8.5	302.0	
192.5	CARBONDALE	DANVILLE	COAL	2.0	310.5	
190.5	CARBONDALE		SHALE	7.0	312.5	
183.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.5	319.5	
178.0	CARBONDALE	LAWSON	SHALE	8.0	325.0	
170.0	CARBONDALE	ANNA	SHALE	2.0	333.0	
167.0	CARBONDALE	HERRIN	COAL	6.5	336.0	

MAPID: 00501248000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NE NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542364 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.768353 **DATE COLLECTED:** 6 / 0 / 1967

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 361.0 **LOG TYPE:** Electric Log

SOURCE: SHAKESPEARE OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	5.0	312.0	
188.0	MODESTO		UNCLASSIFIED	5.0	317.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.0	CARBONDALE		UNCLASSIFIED	18.0	322.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
165.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	340.0	
158.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	347.0	
155.5	CARBONDALE		UNCLASSIFIED	2.5	349.5	SHALE ABOVE BRERETON LIMESTONE
153.0	CARBONDALE	BRERETON	LIMESTONE	1.5	352.0	
151.5	CARBONDALE	ANNA	BLACK SHALE	1.5	353.5	
150.0	CARBONDALE	HERRIN	COAL	6.0	355.0	

MAPID: 00501256000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.547044 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.768451 **DATE COLLECTED:** 11 / 0 / 1967

SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 357.5 **LOG TYPE:** Electric Log

SOURCE: SHAKESPEARE OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.5	MODESTO	PIASA	LIMESTONE	3.0	311.5	
202.5	MODESTO		UNCLASSIFIED	5.0	314.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
197.5	CARBONDALE		UNCLASSIFIED	15.0	319.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
182.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	334.5	
175.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	341.5	
172.0	CARBONDALE		UNCLASSIFIED	3.5	345.0	SHALE ABOVE BRERETON LIMESTONE
168.5	CARBONDALE	BRERETON	LIMESTONE	4.0	348.5	
164.5	CARBONDALE	ANNA	BLACK SHALE	0.5	352.5	
164.0	CARBONDALE	HERRIN	COAL	4.5	353.0	

MAPID: 00501259000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.544638 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.766577 **DATE COLLECTED:** 9 / 0 / 1967

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 363.0 **LOG TYPE:** Electric Log

SOURCE: SHAKESPEARE OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
198.0	MODESTO	PIASA	LIMESTONE	2.5	317.0	
195.5	MODESTO		UNCLASSIFIED	4.0	319.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
191.5	CARBONDALE		UNCLASSIFIED	17.5	323.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	341.0	
168.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	347.0	
164.5	CARBONDALE		UNCLASSIFIED	3.5	350.5	SHALE ABOVE BRERETON LIMESTONE
161.0	CARBONDALE	BRERETON	LIMESTONE	2.0	354.0	
159.0	CARBONDALE	ANNA	BLACK SHALE	2.0	356.0	
157.0	CARBONDALE	HERRIN	COAL	5.0	358.0	

MAPID: 00501321000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.541996 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.75921 **DATE COLLECTED:** 5 / 0 / 1968

SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 313.0 **LOG TYPE:** Electric Log

SOURCE: SHAKESPEARE OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
225.0	MODESTO	PIASA	LIMESTONE	3.5	271.0	
221.5	MODESTO		UNCLASSIFIED	3.0	274.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
218.5	CARBONDALE		UNCLASSIFIED	13.5	277.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
205.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	291.0	
198.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	298.0	
193.5	CARBONDALE		UNCLASSIFIED	4.5	302.5	SHALE ABOVE BRERETON LIMESTONE
189.0	CARBONDALE	BRERETON	LIMESTONE	1.0	307.0	
188.0	CARBONDALE	ANNA	BLACK SHALE	1.0	308.0	
187.0	CARBONDALE	HERRIN	COAL	4.0	309.0	

MAPID: 00500614000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 2310' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.567903 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.765296 **DATE COLLECTED:** 5 / 0 / 1952

SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 387.0 **LOG TYPE:** Electric Log

SOURCE: SIMPSON, C. J. DRLG. CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.5	MODESTO	PIASA	LIMESTONE	5.5	342.5	
176.0	MODESTO		UNCLASSIFIED	3.0	348.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
173.0	CARBONDALE	DANVILLE	COAL	1.5	351.0	
171.5	CARBONDALE		UNCLASSIFIED	9.5	352.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
162.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	362.0	
155.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0	369.0	
150.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	374.0	
149.0	CARBONDALE		UNCLASSIFIED	5.0	375.0	SHALE ABOVE BRERETON LIMESTONE
144.0	CARBONDALE	BRERETON	LIMESTONE	3.0	380.0	
141.0	CARBONDALE	ANNA	BLACK SHALE	1.0	383.0	
140.0	CARBONDALE	HERRIN	COAL	3.0	384.0	

MAPID: 00500614000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 2310' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.567903 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.765296 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 391.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	6.0	334.0	
185.0	MODESTO		SHALE	8.0	340.0	
177.0	CARBONDALE	DANVILLE	COAL	3.0	348.0	
174.0	CARBONDALE		SHALE	2.5	351.0	
171.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	353.5	LOWER BENCH
165.5	CARBONDALE	LAWSON	SHALE	5.5	359.5	
160.0	CARBONDALE	BRERETON	LIMESTONE	9.0	365.0	
140.0	CARBONDALE	HERRIN	COAL	6.0	385.0	

MAPID: 00500082000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 1650' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.581976 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.767471 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 384.9 **LOG TYPE:** Drillers Log

SOURCE: NO COMPANY **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.8	CARBONDALE		UNCLASSIFIED	11.0	350.2	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
162.8	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	361.2	
153.8	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	370.2	
152.3	CARBONDALE		UNCLASSIFIED	1.5	371.7	SHALE ABOVE BRERETON LIMESTONE
150.8	CARBONDALE	BRERETON	LIMESTONE	2.0	373.2	
148.8	CARBONDALE	ANNA	BLACK SHALE	2.8	375.2	
146.0	CARBONDALE	HERRIN	COAL	6.9	378.0	

MAPID: 00500082000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 1650' N line, 1650' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.581976 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.767471 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 394.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
164.0	MODESTO	PIASA	LIMESTONE	5.0	360.0	
159.0	MODESTO		SHALE	0.8	365.0	
158.2	CARBONDALE	DANVILLE	COAL	0.7	365.8	
157.5	CARBONDALE		SHALE	4.5	366.5	
153.0	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	371.0	
144.0	CARBONDALE	LAWSON	BLACK SHALE	5.0	380.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	2.8	385.0	
136.0	CARBONDALE	HERRIN	COAL	6.9	388.0	

MAPID: 00500082000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 1650' N line, 1650' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.581976 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.767471 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.6 **LOGGED (FT.):** 395.0 **LOG TYPE:**
SOURCE: WEISS **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.6	CARBONDALE	HERRIN	COAL	6.9	388.0	

MAPID: 00500281000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 340' S line, 228' W line of NE SW SW
QUADRANGLE: ST. ROSE **LONGITUDE:** -89.593718 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.74587 **DATE COLLECTED:** 6 / 0 / 1955
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Electric Log
SOURCE: KOHLBRECKER JOE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
137.0	CARBONDALE	HERRIN	COAL	5.0	407.0	

MAPID: 00500618000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 2310' N line, 2310' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.589272 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.751182 **DATE COLLECTED:** 3 / 0 / 1946

SURFACE ELEVATION (FT.): 533.0 **LOGGED (FT.):** 390.5 **LOG TYPE:** Electric Log

SOURCE: CONTINENTAL OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	MODESTO	PIASA	LIMESTONE	8.0	346.0	
179.0	MODESTO		UNCLASSIFIED	5.0	354.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
174.0	CARBONDALE	DANVILLE	COAL	1.0	359.0	
173.0	CARBONDALE		UNCLASSIFIED	8.5	360.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
164.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	368.5	
158.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	375.0	
154.0	CARBONDALE		UNCLASSIFIED	4.0	379.0	SHALE ABOVE BRERETON LIMESTONE
150.0	CARBONDALE	BRERETON	LIMESTONE	2.0	383.0	
148.0	CARBONDALE	ANNA	BLACK SHALE	1.0	385.0	
147.0	CARBONDALE	HERRIN	COAL	4.5	386.0	

MAPID: 00500618000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 2310' N line, 2310' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.589272 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.751182 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 538.0 **LOGGED (FT.):** 397.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	MODESTO	PIASA	LIMESTONE	7.0	354.0	
177.0	MODESTO		SHALE	12.0	361.0	
165.0	CARBONDALE		SHALE	5.0	373.0	
160.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.5	378.0	
153.5	CARBONDALE	LAWSON	SHALE	5.0	384.5	
148.5	CARBONDALE	ANNA	SHALE	2.0	389.5	
148.0	CARBONDALE	HERRIN	COAL	7.0	390.0	

MAPID: 00523018000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** NE NW NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.593426 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.756747 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 410.6 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-28 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.6	404.0	

MAPID: 00500534000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.574158 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.750823 **DATE COLLECTED:** 12 / 0 / 1956

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 372.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
185.0	MODESTO	PIASA	LIMESTONE	6.0	331.0	
179.0	MODESTO		UNCLASSIFIED	3.0	337.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE		UNCLASSIFIED	11.0	340.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
165.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	351.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	360.0	
154.0	CARBONDALE		UNCLASSIFIED	2.0	362.0	SHALE ABOVE BRERETON LIMESTONE
152.0	CARBONDALE	BRERETON	LIMESTONE	1.0	364.0	
151.0	CARBONDALE	ANNA	BLACK SHALE	1.0	365.0	
150.0	CARBONDALE	HERRIN	COAL	6.0	366.0	

MAPID: 00500617000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 1650' S line, 990' E line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.560123 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.746704 **DATE COLLECTED:** 2 / 0 / 1951

SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 344.0 **LOG TYPE:** Electric Log

SOURCE: MACDONELL, J. A. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
210.0	MODESTO	PIASA	LIMESTONE	4.0	302.0	
206.0	MODESTO		UNCLASSIFIED	4.0	306.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
202.0	CARBONDALE		UNCLASSIFIED	14.0	310.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
188.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	324.0	
181.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	331.0	
178.5	CARBONDALE		UNCLASSIFIED	2.5	333.5	SHALE ABOVE BRERETON LIMESTONE
176.0	CARBONDALE	BRERETON	LIMESTONE	2.0	336.0	
174.0	CARBONDALE	ANNA	BLACK SHALE	2.0	338.0	
172.0	CARBONDALE	HERRIN	COAL	4.0	340.0	

MAPID: 00500617000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 1650' S line, 990' E line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.560123 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.746704 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 344.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
210.0	MODESTO	PIASA	LIMESTONE	3.0	302.0	
207.0	MODESTO		SHALE	10.0	305.0	
197.0	CARBONDALE	DANVILLE	COAL	2.0	315.0	
195.0	CARBONDALE		SHALE	6.0	317.0	
189.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	323.0	UPPER BENCH
187.0	CARBONDALE	BANKSTON FORK	SHALE	1.5	325.0	SHALE PARTING
185.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.5	326.5	LOWER BENCH
181.0	CARBONDALE	LAWSON	SHALE	5.0	331.0	
176.0	CARBONDALE	ANNA	SHALE	2.0	336.0	
173.0	CARBONDALE	HERRIN	COAL	5.0	339.0	

MAPID: 00500877000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** SW

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.570459 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.746151 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 369.5 **LOG TYPE:** Drillers Log

SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
184.5	MODESTO	PIASA	LIMESTONE	6.5	325.5	
178.0	MODESTO		UNCLASSIFIED	2.0	332.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE		UNCLASSIFIED	9.5	334.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	343.5	
157.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	352.5	
155.5	CARBONDALE		UNCLASSIFIED	2.0	354.5	SHALE ABOVE BRERETON LIMESTONE
153.5	CARBONDALE	BRERETON	LIMESTONE	2.8	356.5	
150.7	CARBONDALE	ANNA	BLACK SHALE	2.7	359.3	
148.0	CARBONDALE	HERRIN	COAL	7.5	362.0	

MAPID: 00523019000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 75' N line, 41' W line of NW NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.575501 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.757023 **DATE COLLECTED:** 5 / 20 / 1969

SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 398.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY WF-231 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
154.6	CARBONDALE	HERRIN	COAL	6.7	367.4	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500116000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.555329 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.74291 **DATE COLLECTED:** 0 / 0 / 1938

SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 1130.0 **LOG TYPE:**

SOURCE: LINDSAY **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
184.0	CARBONDALE	HERRIN	COAL	3.0	330.0	

MAPID: 00500616000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 2310' N line, 2310' E line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.54651 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.750166 **DATE COLLECTED:** 10 / 0 / 1946

SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 344.0 **LOG TYPE:** Electric Log

SOURCE: OBERING ERNEST A **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
207.1	MODESTO	PIASA	LIMESTONE	4.0	301.9	
203.1	MODESTO		UNCLASSIFIED	3.0	305.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
200.1	CARBONDALE		UNCLASSIFIED	14.0	308.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
186.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	322.9	
178.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	330.4	
175.3	CARBONDALE		UNCLASSIFIED	3.3	333.7	SHALE ABOVE BRERETON LIMESTONE
172.0	CARBONDALE	BRERETON	LIMESTONE	1.0	337.0	
171.0	CARBONDALE	ANNA	BLACK SHALE	1.0	338.0	
170.0	CARBONDALE	HERRIN	COAL	5.0	339.0	

MAPID: 00500616000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 2310' N line, 2310' E line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.54651 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.750166 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 344.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
207.0	MODESTO	PIASA	LIMESTONE	4.0	302.0	
203.0	MODESTO		SHALE	9.5	306.0	
193.5	CARBONDALE	DANVILLE	COAL	1.5	315.5	
192.0	CARBONDALE		SHALE	5.0	317.0	
187.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	322.0	
180.0	CARBONDALE	LAWSON	SHALE	7.0	329.0	
173.0	CARBONDALE	ANNA	SHALE	2.0	336.0	
171.0	CARBONDALE	HERRIN	COAL	6.5	338.0	

MAPID: 00500676000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.555885 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.7558 **DATE COLLECTED:** 5 / 0 / 1957
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 367.0 **LOG TYPE:** Electric Log
SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.1	MODESTO	PIASA	LIMESTONE	4.0	322.9	
191.1	MODESTO		UNCLASSIFIED	3.5	326.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
187.6	CARBONDALE		UNCLASSIFIED	16.5	330.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
171.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	346.9	
163.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	354.9	
160.3	CARBONDALE		UNCLASSIFIED	2.8	357.7	SHALE ABOVE BRERETON LIMESTONE
157.5	CARBONDALE	BRERETON	LIMESTONE	1.0	360.5	
156.5	CARBONDALE	ANNA	BLACK SHALE	0.5	361.5	
156.0	CARBONDALE	HERRIN	COAL	5.0	362.0	

MAPID: 00523020000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** NW NW NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.556485 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.756263 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 362.4 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-4 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.4	356.0	

MAPID: 00500083000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: ST. ROSE **LONGITUDE:** -89.537181 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.742481 **DATE COLLECTED:** 0 / 0 / 1917
SURFACE ELEVATION (FT.): 470.8 **LOGGED (FT.):** 975.0 **LOG TYPE:**
SOURCE: HOLDEN OIL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	UNCLASSIFIED	0.0		

MAPID: 00500619000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 1650' S line, 330' W line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.53719 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.746111 **DATE COLLECTED:** 6 / 0 / 1951

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 356.0 **LOG TYPE:** Electric Log

SOURCE: BAINES, DON DRLG. CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
186.0	MODESTO	PIASA	LIMESTONE	3.5	311.0	
182.5	MODESTO		UNCLASSIFIED	4.0	314.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
178.5	CARBONDALE		UNCLASSIFIED	14.5	318.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
164.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	333.0	
155.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	342.0	
152.5	CARBONDALE		UNCLASSIFIED	2.5	344.5	SHALE ABOVE BRERETON LIMESTONE
150.0	CARBONDALE	BRERETON	LIMESTONE	0.5	347.0	
149.5	CARBONDALE	ANNA	BLACK SHALE	1.5	347.5	
148.0	CARBONDALE	HERRIN	COAL	7.0	349.0	

MAPID: 00500619000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 1650' S line, 330' W line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.53719 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.746111 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 354.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
186.0	MODESTO	PIASA	LIMESTONE	4.0	311.0	
182.0	MODESTO		SHALE	12.0	315.0	
170.0	CARBONDALE	DANVILLE	COAL	1.0	327.0	
169.0	CARBONDALE		SHALE	4.5	328.0	
164.5	CARBONDALE	BANKSTON FORK	LIMESTONE	9.5	332.5	
155.0	CARBONDALE	LAWSON	SHALE	4.5	342.0	
150.5	CARBONDALE	ANNA	SHALE	1.0	346.5	
149.0	CARBONDALE	HERRIN	COAL	6.5	348.0	

MAPID: 00500688000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** 990' S line, 1650' W line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.513792 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.743944 **DATE COLLECTED:** 7 / 0 / 1952

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 363.0 **LOG TYPE:** Electric Log

SOURCE: CARTER OIL COMPANY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.1	MODESTO	PIASA	LIMESTONE	4.0	312.9	
189.1	MODESTO		UNCLASSIFIED	8.0	316.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
181.1	CARBONDALE		UNCLASSIFIED	15.0	324.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	339.9	
158.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	347.4	
155.3	CARBONDALE		UNCLASSIFIED	3.3	350.7	SHALE ABOVE BRERETON LIMESTONE
152.0	CARBONDALE	BRERETON	LIMESTONE	2.0	354.0	
150.0	CARBONDALE	ANNA	BLACK SHALE	2.0	356.0	
148.0	CARBONDALE	HERRIN	COAL	5.0	358.0	

MAPID: 00500688000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 4N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** 990' S line, 1650' W line

QUADRANGLE: ST. ROSE **LONGITUDE:** -89.513792 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.743944 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 364.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
192.0	MODESTO	PIASA	LIMESTONE	4.0	314.0	
188.0	MODESTO		SHALE	15.0	318.0	
173.0	CARBONDALE	DANVILLE	COAL	2.0	333.0	
171.0	CARBONDALE		SHALE	3.0	335.0	
168.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	338.0	UPPER BENCH
163.0	CARBONDALE	BANKSTON FORK	SHALE	1.0	343.0	SHALE PARTING
162.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	344.0	LOWER BENCH
159.0	CARBONDALE	LAWSON	SHALE	7.0	347.0	
152.0	CARBONDALE	ANNA	SHALE	2.0	354.0	
148.0	CARBONDALE	HERRIN	COAL	6.0	358.0	

MAPID: 00500568000C **VERSION:** 1 **PROJECT:** ISGS

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.264744 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.909049 **DATE COLLECTED:** 6 / 0 / 1953

SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 700.0 **LOG TYPE:** Electric Log

SOURCE: SMITH EDGAR **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
84.0	CARBONDALE	HERRIN	COAL	6.0	460.0	

MAPID: 00500027000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318676 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.907062 **DATE COLLECTED:** 0 / 0 / 1923

SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 480.0 **LOG TYPE:** Drillers Log

SOURCE: DINWIDDIE **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
574.0			UNCONSOLIDATED	76.5	0.0	
497.5			ROCK	100.0	76.5	
397.5			COAL	0.5	176.5	
397.0			ROCK	33.5	177.0	
363.5			COAL	0.5	210.5	
363.0			ROCK	239.0	211.0	
124.0			SHALE	2.0	450.0	
122.0			LIMESTONE	3.0	452.0	
119.0			SHALE	1.5	455.0	
117.5			LIMESTONE	7.5	456.5	
110.0			SHALE	6.4	464.0	
103.6			BLACK SHALE	1.5	470.4	
102.1	CARBONDALE	HERRIN	COAL	6.8	471.9	BLUE BAND .08'
95.3			ROCK	1.3	478.7	

MAPID: 00500027000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318676 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.907062 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 478.8 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
138.0	MODESTO	PIASA	LIMESTONE	5.5	428.0	
132.5	MODESTO		GRAY SHALE	8.5	433.5	
124.0	CARBONDALE		GRAY SHALE	6.0	442.0	
118.0	CARBONDALE		BLACK SHALE	2.0	448.0	
116.0	CARBONDALE		GRAY SHALE	2.0	450.0	
114.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	452.0	UPPER BENCH
111.0	CARBONDALE	BANKSTON FORK	SHALE	1.5	455.0	SHALE PARTING
109.5	CARBONDALE	BANKSTON FORK	LIMESTONE	7.5	456.5	LOWER BENCH
102.0	CARBONDALE	LAWSON	GRAY SHALE	6.4	464.0	
95.6	CARBONDALE	ANNA	BLACK SHALE	1.5	470.4	
94.0	CARBONDALE	HERRIN	COAL	6.8	472.0	

MAPID: 00500027000C **VERSION:** 3 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318676 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.907062 **DATE COLLECTED:** 0 / 0 / 1923

SURFACE ELEVATION (FT.): 565.6 **LOGGED (FT.):** 480.0 **LOG TYPE:**

SOURCE: PORTER **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
457.6	BOND	CARTHAGE	LIMESTONE	-	108.0	
93.6	CARBONDALE	HERRIN	COAL	6.8	472.0	

MAPID: 00500027000C **VERSION:** 4 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318676 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.907062 **DATE COLLECTED:** 0 / 0 / 1923

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 478.8 **LOG TYPE:** Drillers Log

SOURCE: NO COMPANY **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
138.0	MODESTO	PIASA	LIMESTONE	5.5	428.0	
132.5	MODESTO		UNCLASSIFIED	4.8	433.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
127.7	CARBONDALE		UNCLASSIFIED	13.8	438.3	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.9	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	12.0	452.1	
101.9	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	464.1	
99.9	CARBONDALE		UNCLASSIFIED	2.0	466.1	SHALE ABOVE BRERETON LIMESTONE
97.9	CARBONDALE	BRERETON	LIMESTONE	2.4	468.1	
95.5	CARBONDALE	ANNA	BLACK SHALE	1.5	470.5	
94.0	CARBONDALE	HERRIN	COAL	6.8	472.0	

MAPID: 00500193000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** SW NE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325708 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.907028 **DATE COLLECTED:** 4 / 0 / 1942

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 476.0 **LOG TYPE:** Electric Log

SOURCE: SHELL OIL COMPANY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	5.0	428.0	
142.0	MODESTO		UNCLASSIFIED	6.0	433.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
136.0	CARBONDALE		UNCLASSIFIED	16.0	439.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
120.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	455.0	
112.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	463.0	
109.5	CARBONDALE		UNCLASSIFIED	2.5	465.5	SHALE ABOVE BRERETON LIMESTONE
107.0	CARBONDALE	BRERETON	LIMESTONE	1.0	468.0	
106.0	CARBONDALE	ANNA	BLACK SHALE	1.0	469.0	
105.0	CARBONDALE	HERRIN	COAL	6.0	470.0	

MAPID: 00500193000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** SW NE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325708 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.907028 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 1250.0 **LOG TYPE:**

SOURCE: SHELL OC, STE BK HLS 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
457.0	BOND	CARTHAGE	LIMESTONE	-	118.0	
116.0	CARBONDALE	HERRIN	COAL	-	459.0	

MAPID: 00500569000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323477 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.914551 **DATE COLLECTED:** 12 / 0 / 1950

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 478.0 **LOG TYPE:** Electric Log

SOURCE: MIAMI OPERATING CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.0	MODESTO	PIASA	LIMESTONE	4.0	428.0	
139.0	MODESTO		UNCLASSIFIED	4.0	432.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
135.0	CARBONDALE	DANVILLE	COAL	2.0	436.0	
133.0	CARBONDALE		UNCLASSIFIED	16.0	438.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
117.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.0	454.0	
106.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	465.0	
104.5	CARBONDALE		UNCLASSIFIED	1.5	466.5	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	4.0	468.0	
99.0	CARBONDALE	ANNA	BLACK SHALE	2.0	472.0	
97.0	CARBONDALE	HERRIN	COAL	4.0	474.0	

MAPID: 00500720000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325865 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.916401 **DATE COLLECTED:** 9 / 0 / 1957

SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 459.5 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
154.0	MODESTO	PIASA	LIMESTONE	5.0	413.0	
149.0	MODESTO		UNCLASSIFIED	5.0	418.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
144.0	CARBONDALE		UNCLASSIFIED	15.0	423.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
129.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	438.0	
122.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	445.0	
119.0	CARBONDALE		UNCLASSIFIED	3.0	448.0	SHALE ABOVE BRERETON LIMESTONE
116.0	CARBONDALE	BRERETON	LIMESTONE	2.0	451.0	
114.0	CARBONDALE	ANNA	BLACK SHALE	1.0	453.0	
113.0	CARBONDALE	HERRIN	COAL	5.5	454.0	

MAPID: 00500723000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.330555 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.916361 **DATE COLLECTED:** 8 / 0 / 1957

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 473.5 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.0	MODESTO	PIASA	LIMESTONE	4.0	426.0	
139.0	MODESTO		UNCLASSIFIED	6.0	430.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.0	CARBONDALE		UNCLASSIFIED	17.0	436.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
116.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	453.0	
107.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	462.0	
105.5	CARBONDALE		UNCLASSIFIED	1.5	463.5	SHALE ABOVE BRERETON LIMESTONE
104.0	CARBONDALE	BRERETON	LIMESTONE	1.5	465.0	
102.5	CARBONDALE	ANNA	BLACK SHALE	1.5	466.5	
101.0	CARBONDALE	HERRIN	COAL	5.5	468.0	

MAPID: 00500788000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 900' E line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325519 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.916403 **DATE COLLECTED:** 12 / 0 / 1958

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 461.5 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.5	MODESTO	PIASA	LIMESTONE	4.0	411.5	
146.5	MODESTO		UNCLASSIFIED	7.0	415.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.5	CARBONDALE		UNCLASSIFIED	18.0	422.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
121.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	440.5	
112.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	449.5	
111.0	CARBONDALE		UNCLASSIFIED	1.5	451.0	SHALE ABOVE BRERETON LIMESTONE
109.5	CARBONDALE	BRERETON	LIMESTONE	1.5	452.5	
108.0	CARBONDALE	ANNA	BLACK SHALE	1.0	454.0	
107.0	CARBONDALE	HERRIN	COAL	6.5	455.0	

MAPID: 00501229000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** NE NE NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.314133 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.916471 **DATE COLLECTED:** 2 / 0 / 1939

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Drillers Log

SOURCE: SHELL PETROLEUM CORP. **WELL TYPE:** Structure Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	6.0	418.0	
136.0	MODESTO		UNCLASSIFIED	4.0	424.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
132.0	CARBONDALE	DANVILLE	COAL	2.0	428.0	
130.0	CARBONDALE		UNCLASSIFIED	10.0	430.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
120.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	440.0	
110.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	450.0	
106.0	CARBONDALE		UNCLASSIFIED	4.0	454.0	SHALE ABOVE BRERETON LIMESTONE
102.0	CARBONDALE	BRERETON	LIMESTONE	1.0	458.0	
101.0	CARBONDALE	ANNA	BLACK SHALE	1.0	459.0	
100.0	CARBONDALE	HERRIN	COAL	5.0	460.0	

MAPID: 00570002000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 5 **QUARTERS/FOOTAGES:** 2360' N line, 430' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.333116 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.910694 **DATE COLLECTED:** 0 / 0 / 1950

SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 1223.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 13C1033 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
580.0			NO RECORD	105.0	0.0	
475.0			SHALE	20.0	105.0	
455.0			SHALE & SANDSTONE	45.0	125.0	
410.0			SANDSTONE	15.0	170.0	
395.0			SHALE & SANDSTONE	145.0	185.0	
250.0			SANDSTONE	35.0	330.0	
215.0			SHALE	20.0	365.0	
195.0			SHALE	170.0	385.0	FOSSIL SHELLS
25.0	CARBONDALE	SPRINGFIELD	COAL	2.0	555.0	UNCERTAIN CORRELATION
23.0			SHALE	43.0	557.0	
-20.0			LIMESTONE	15.0	600.0	
-35.0			SHALE	89.0	615.0	FOSSIL SHELLS
-124.0			SANDY SHALE	80.0	704.0	
-204.0			SANDSTONE	51.0	784.0	
-255.0			LIMESTONE	5.0	835.0	
-260.0			SHALE	60.0	840.0	
-320.0			LIMESTONE	10.0	900.0	
-330.0			SHALE	8.0	910.0	
-338.0			SANDSTONE	10.0	918.0	
-348.0			SHALE	11.0	928.0	
-359.0			SANDSTONE	66.0	939.0	
-425.0			SHALE & SANDSTONE	47.0	1005.0	
-472.0			SHALE	44.0	1052.0	FOSSIL SHELLS
-516.0			SANDY SHALE	127.0	1096.0	

MAPID: 00570005000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 1970' N line, 1610' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.355719 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.896783 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 1384.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 14C163 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
555.0			NO RECORD	257.0	0.0	
298.0			SHALE	213.0	257.0	FOSSIL SHELLS
85.0			SANDSTONE	130.0	470.0	FOSSIL SHELLS
-45.0	CARBONDALE	COLCHESTER	COAL	5.0	600.0	
-50.0			SANDSTONE	115.0	605.0	
-165.0			SHALE	73.0	720.0	
-238.0			LIMESTONE	37.0	793.0	
-275.0			SANDSTONE	10.0	830.0	
-285.0			UNCLASSIFIED	54.0	840.0	
-339.0			SHALE	59.0	894.0	
-398.0			LIMESTONE	46.0	953.0	
-444.0			SHALE & SANDSTONE	65.0	999.0	
-509.0			SHALE	38.0	1064.0	
-547.0			SANDY SHALE	57.0	1102.0	
-604.0			SANDSTONE	52.0	1159.0	
-656.0			UNCLASSIFIED	173.0	1211.0	

MAPID: 00500026000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339565 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 38.897678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 495.0 **LOG TYPE:** Drillers Log
SOURCE: RUTLEDGE **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
557.0			UNCONSOLIDATED	75.0	0.0	
482.0			ROCK	124.0	75.0	
358.0			COAL	1.3	199.0	
356.7			ROCK	234.8	200.3	
122.0			SHALE	5.0	435.0	
117.0			LIMESTONE	14.0	440.0	
103.0			BLACK SHALE	6.0	454.0	
97.0	CARBONDALE	HERRIN	COAL	5.0	460.0	
92.0			UNDERCLAY	3.0	465.0	
89.0			SHALE	18.0	468.0	
71.0			LIMESTONE	4.0	486.0	
67.0			COAL	4.0	490.0	
63.0			ROCK	1.0	494.0	

MAPID: 00500026000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339565 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.897678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	9.0	408.0	
140.0	MODESTO		SHALE	14.0	417.0	
126.0	CARBONDALE		DARK GRAY SHALE	4.0	431.0	
122.0	CARBONDALE		SHALE	5.0	435.0	
117.0	CARBONDALE	BANKSTON FORK	LIMESTONE	14.0	440.0	LOWER BENCH
103.0	CARBONDALE	LAWSON	BLACK SHALE	5.0	454.0	
98.0	CARBONDALE	ANNA	BLACK SHALE	1.0	459.0	
97.0	CARBONDALE	HERRIN	COAL	5.0	460.0	

MAPID: 00500026000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** NW SW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339565 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.897678 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Drillers Log

SOURCE: MISSISSIPPI COAL CORP. **WELL TYPE:** Mine Shaft

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
97.0	CARBONDALE	HERRIN	COAL	5.0	460.0	

MAPID: 00500031000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** NE SW SE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.343614 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.896287 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 556.9 **LOGGED (FT.):** 562.0 **LOG TYPE:**

SOURCE: SMTHBOR MN, HEATH FARM **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
461.9	BOND	CARTHAGE	LIMESTONE	-	95.0	
100.9	CARBONDALE	HERRIN	COAL	6.0	456.0	

MAPID: 00500031000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** NE SW SE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.343614 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.896287 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 561.5 **LOG TYPE:** Drillers Log

SOURCE: ILLINOIS COAL MINE **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
550.0			UNCONSOLIDATED	95.0	0.0	
455.0			ROCK	56.5	95.0	
398.5			COAL	0.5	151.5	
398.0			ROCK	109.0	152.0	
289.0			COAL	1.0	261.0	
288.0			ROCK	164.0	262.0	
124.0			SHALE	17.0	426.0	
107.0			LIMESTONE	5.0	443.0	
102.0			SHALE	8.0	448.0	
94.0	CARBONDALE	HERRIN	COAL	6.0	456.0	
88.0			SHALE	14.0	462.0	
74.0			LIMESTONE	4.0	476.0	
70.0			SHALE	4.0	480.0	
66.0			LIMESTONE	1.0	484.0	
65.0			COAL	5.0	485.0	
60.0			UNDERCLAY	2.0	490.0	
58.0			SHALE	12.0	492.0	
46.0			UNDERCLAY	2.0	504.0	
44.0			LIMESTONE	3.0	506.0	
41.0			COAL	3.5	509.0	
37.5			ROCK	15.0	512.5	
22.5			SHALE	29.0	527.5	
-6.5			COAL	5.0	556.5	

MAPID: 00500031000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** NE SW SE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.343614 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.896287 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log

SOURCE: SMITHBORO IL COAL CO. **WELL TYPE:** Coal Test

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 89

MAPID: 00500200401M **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 8 **QUARTERS/FOOTAGES:** SW SW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339527 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.895829 **DATE COLLECTED:** 10 / 8 / 1929

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 5.0 **LOG TYPE:** Measured section

SOURCE: MINE NOTES-MISSISSIPPI VALLEY C C **WELL TYPE:** Underground mine

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
557.0			UNKNOWN	460.0	0.0	
97.0	CARBONDALE	HERRIN	COAL	5.0	460.0	

MAPID: 00500309000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325503 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.894031 **DATE COLLECTED:** 9 / 0 / 1955

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: SIMPKINS JOE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.1	MODESTO	PIASA	LIMESTONE	3.0	395.9	
158.1	MODESTO		UNCLASSIFIED	5.0	398.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
153.1	CARBONDALE		UNCLASSIFIED	15.0	403.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
138.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	418.9	
130.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	426.9	
128.3	CARBONDALE		UNCLASSIFIED	1.8	428.7	SHALE ABOVE BRERETON LIMESTONE
126.5	CARBONDALE	BRERETON	LIMESTONE	1.0	430.5	
125.5	CARBONDALE	ANNA	BLACK SHALE	1.5	431.5	
124.0	CARBONDALE	HERRIN	COAL	4.0	433.0	

MAPID: 00500570000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.259523 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.87625 **DATE COLLECTED:** 5 / 0 / 1954

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
110.0	MODESTO	PIASA	LIMESTONE	5.0	389.0	
105.0	MODESTO		UNCLASSIFIED	6.0	394.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
99.0	CARBONDALE		UNCLASSIFIED	17.0	400.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	417.0	
74.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	425.0	
71.5	CARBONDALE		UNCLASSIFIED	2.5	427.5	SHALE ABOVE BRERETON LIMESTONE
69.0	CARBONDALE	BRERETON	LIMESTONE	1.5	430.0	
67.5	CARBONDALE	ANNA	BLACK SHALE	1.5	431.5	
66.0	CARBONDALE	HERRIN	COAL	5.0	433.0	

MAPID: 00500162000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE NE NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.313685 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.884913 **DATE COLLECTED:** 7 / 0 / 1940

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

SOURCE: DICKERSON & LEIBERNECK **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	4.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	15.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.0		
-	CARBONDALE	ANNA	BLACK SHALE	1.5		
-	CARBONDALE	HERRIN	COAL	5.0		ELEVATION OF HERRIN = 101

MAPID: 00500162000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE NE NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.313685 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.884913 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 559.0 **LOGGED (FT.):** 2564.0 **LOG TYPE:**

SOURCE: DCKRSN ETL, STORK 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
102.0	CARBONDALE	HERRIN	COAL	-	457.0	

MAPID: 00500571000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339224 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.882928 **DATE COLLECTED:** 11 / 0 / 1950

SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 471.0 **LOG TYPE:** Electric Log

SOURCE: BRINKLEY, H. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
108.0	MODESTO	PIASA	LIMESTONE	3.0	427.0	
105.0	MODESTO		UNCLASSIFIED	6.0	430.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
99.0	CARBONDALE	DANVILLE	COAL	2.0	436.0	
97.0	CARBONDALE		UNCLASSIFIED	15.0	438.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	453.0	
74.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	461.0	
72.0	CARBONDALE		UNCLASSIFIED	2.0	463.0	SHALE ABOVE BRERETON LIMESTONE
70.0	CARBONDALE	BRERETON	LIMESTONE	1.0	465.0	
69.0	CARBONDALE	ANNA	BLACK SHALE	1.0	466.0	
68.0	CARBONDALE	HERRIN	COAL	4.0	467.0	

MAPID: 00523021000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** SE SE SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.350337 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.859087 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 456.7 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-46 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	3.7	453.0	

MAPID: 00500572000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.336307 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.862839 **DATE COLLECTED:** 8 / 0 / 1948

SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 470.5 **LOG TYPE:** Electric Log

SOURCE: SUN DRLG CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
116.0	MODESTO	PIASA	LIMESTONE	4.0	427.0	
112.0	MODESTO		UNCLASSIFIED	5.0	431.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
107.0	CARBONDALE		UNCLASSIFIED	14.0	436.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
93.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	450.0	
83.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	460.0	
81.5	CARBONDALE		UNCLASSIFIED	1.5	461.5	SHALE ABOVE BRERETON LIMESTONE
80.0	CARBONDALE	BRERETON	LIMESTONE	1.0	463.0	
79.0	CARBONDALE	ANNA	BLACK SHALE	1.0	464.0	
78.0	CARBONDALE	HERRIN	COAL	5.5	465.0	

MAPID: 00500573000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 2310' N line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.277797 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.852469 **DATE COLLECTED:** 7 / 0 / 1954

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 467.0 **LOG TYPE:** Electric Log

SOURCE: TRUIT LAWRENCE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
83.1	MODESTO	PIASA	LIMESTONE	4.0	413.9	
79.1	MODESTO		UNCLASSIFIED	7.0	417.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
72.1	CARBONDALE	DANVILLE	COAL	2.0	424.9	
70.1	CARBONDALE		UNCLASSIFIED	19.0	426.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
51.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	445.9	
42.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	454.4	
40.3	CARBONDALE		UNCLASSIFIED	2.3	456.7	SHALE ABOVE BRERETON LIMESTONE
38.0	CARBONDALE	BRERETON	LIMESTONE	2.0	459.0	
36.0	CARBONDALE	ANNA	BLACK SHALE	2.0	461.0	
34.0	CARBONDALE	HERRIN	COAL	4.0	463.0	

MAPID: 00500573000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 2310' N line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.277797 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.852469 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 468.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
83.0	MODESTO	PIASA	LIMESTONE	14.0	414.0	
69.0	MODESTO		SHALE	12.0	428.0	
57.0	CARBONDALE		SHALE	6.0	440.0	
51.0	CARBONDALE		SHALE	6.0	446.0	
45.0	CARBONDALE		SHALE	9.0	452.0	
36.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	461.0	
32.0	CARBONDALE	LAWSON	SHALE	4.0	465.0	
28.0	CARBONDALE	BRERETON	LIMESTONE	2.0	469.0	
26.0	CARBONDALE	ANNA	SHALE	1.5	471.0	
34.0	CARBONDALE	HERRIN	COAL	5.0	463.0	

MAPID: 00500161000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' S line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.333703 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.850062 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 2547.0 **LOG TYPE:**

SOURCE: LACEY W F, CARTMELL 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
76.0	CARBONDALE	HERRIN	COAL	-	458.0	

MAPID: 00500161000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' S line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.333703 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.850062 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
116.0	MODESTO	PIASA	LIMESTONE	6.0	418.0	
110.0	MODESTO		SHALE	14.0	424.0	
96.0	CARBONDALE	DANVILLE	COAL	1.0	438.0	
95.0	CARBONDALE		SHALE	3.0	439.0	
92.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	442.0	UPPER BENCH
89.0	CARBONDALE	BANKSTON FORK	SHALE	1.0	445.0	SHALE PARTING
88.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	446.0	LOWER BENCH
84.0	CARBONDALE	LAWSON	SHALE	7.0	450.0	
77.0	CARBONDALE	BRERETON	LIMESTONE	3.0	457.0	
74.0	CARBONDALE	HERRIN	COAL	5.0	460.0	

MAPID: 00500161000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' S line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.333703 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.850062 **DATE COLLECTED:** 7 / 0 / 1940

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 464.0 **LOG TYPE:** Electric Log

SOURCE: LACY WILLIAM F **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
114.0	MODESTO	PIASA	LIMESTONE	5.0	420.0	
109.0	MODESTO		UNCLASSIFIED	6.0	425.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
103.0	CARBONDALE	DANVILLE	COAL	1.0	431.0	
102.0	CARBONDALE		UNCLASSIFIED	10.0	432.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
92.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	442.0	
85.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	449.0	
83.0	CARBONDALE	CONANT	UNCLASSIFIED	2.0	451.0	
81.0	CARBONDALE		UNCLASSIFIED	4.0	453.0	SHALE ABOVE BRERETON LIMESTONE
77.0	CARBONDALE	BRERETON	LIMESTONE	1.0	457.0	
76.0	CARBONDALE	ANNA	BLACK SHALE	2.0	458.0	
74.0	CARBONDALE	HERRIN	COAL	4.0	460.0	

MAPID: 00570015000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2280' S line, 1140' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.334229 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.849974 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 1048.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 01C161 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
534.0			NO RECORD	87.0	0.0	
447.0			SHALE	241.0	87.0	
206.0			SANDY SHALE	34.0	328.0	
172.0			SHALE	63.0	362.0	
109.0			SANDSTONE	77.0	425.0	
32.0	CARBONDALE	SPRINGFIELD	COAL	2.0	502.0	UNCERTAIN CORRELATION
30.0			SHALE	206.0	504.0	
-176.0			SHALE & SANDSTONE	25.0	710.0	
-201.0			SHALE	103.0	735.0	FOSSIL SHELLS
-304.0			COAL	3.0	838.0	
-307.0			LIMESTONE	2.0	841.0	
-309.0			SANDSTONE	8.0	843.0	
-317.0			SHALE	34.0	851.0	
-351.0			LIMESTONE	20.0	885.0	
-371.0			SHALE	36.0	905.0	
-407.0			LIMESTONE	16.0	941.0	
-423.0			SHALE	21.0	957.0	
-444.0			LIMESTONE	70.0	978.0	

MAPID: 00500574000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.370115 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.835156 **DATE COLLECTED:** 2 / 0 / 1955

SURFACE ELEVATION (FT.): 531.0 **LOGGED (FT.):** 468.0 **LOG TYPE:** Electric Log

SOURCE: ERVIN DRILLING CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
105.0	MODESTO	PIASA	LIMESTONE	4.0	426.0	
101.0	MODESTO		UNCLASSIFIED	5.0	430.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
96.0	CARBONDALE		UNCLASSIFIED	14.0	435.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	449.0	
75.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	455.5	
72.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	459.0	
71.0	CARBONDALE		UNCLASSIFIED	2.5	460.0	SHALE ABOVE BRERETON LIMESTONE
68.5	CARBONDALE	BRERETON	LIMESTONE	1.0	462.5	
67.5	CARBONDALE	ANNA	BLACK SHALE	0.5	463.5	
67.0	CARBONDALE	HERRIN	COAL	4.0	464.0	

MAPID: 00500575000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.356023 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.842566 **DATE COLLECTED:** 12 / 0 / 1950

SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 429.0 **LOG TYPE:** Electric Log

SOURCE: MYERS THEO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
132.0	MODESTO	PIASA	LIMESTONE	2.0	386.0	
130.0	MODESTO		UNCLASSIFIED	7.0	388.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
123.0	CARBONDALE		UNCLASSIFIED	15.0	395.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
108.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	410.0	
100.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	418.0	
97.5	CARBONDALE		UNCLASSIFIED	2.5	420.5	SHALE ABOVE BRERETON LIMESTONE
95.0	CARBONDALE	BRERETON	LIMESTONE	1.0	423.0	
94.0	CARBONDALE	ANNA	BLACK SHALE	1.0	424.0	
93.0	CARBONDALE	HERRIN	COAL	4.0	425.0	

MAPID: 00500582000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 990' S line, 330' E line of SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.361124 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.83159 **DATE COLLECTED:** 5 / 0 / 1950

SURFACE ELEVATION (FT.): 533.0 **LOGGED (FT.):** 459.0 **LOG TYPE:** Electric Log

SOURCE: MYERS THEO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
121.0	MODESTO	PIASA	LIMESTONE	4.0	412.0	
117.0	MODESTO		UNCLASSIFIED	3.0	416.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
114.0	CARBONDALE	DANVILLE	COAL	2.0	419.0	
112.0	CARBONDALE		UNCLASSIFIED	20.0	421.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
92.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	441.0	
83.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	450.0	
81.5	CARBONDALE		UNCLASSIFIED	1.5	451.5	SHALE ABOVE BRERETON LIMESTONE
80.0	CARBONDALE	BRERETON	LIMESTONE	1.0	453.0	
79.0	CARBONDALE	ANNA	BLACK SHALE	1.0	454.0	
78.0	CARBONDALE	HERRIN	COAL	4.0	455.0	

MAPID: 00500576000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.293987 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.843093 **DATE COLLECTED:** 4 / 0 / 1948

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 481.0 **LOG TYPE:** Electric Log

SOURCE: KROHN WM H ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
84.0	MODESTO	PIASA	LIMESTONE	5.0	431.0	
79.0	MODESTO		UNCLASSIFIED	5.0	436.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
74.0	CARBONDALE		UNCLASSIFIED	19.0	441.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
55.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	460.0	
46.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	469.0	
43.5	CARBONDALE		UNCLASSIFIED	2.5	471.5	SHALE ABOVE BRERETON LIMESTONE
41.0	CARBONDALE	BRERETON	LIMESTONE	1.0	474.0	
40.0	CARBONDALE	ANNA	BLACK SHALE	1.0	475.0	
39.0	CARBONDALE	HERRIN	COAL	5.0	476.0	

MAPID: 00570014000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 220' N line, 240' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.293675 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.843399 **DATE COLLECTED:** 0 / 0 / 1948

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 978.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 02C576 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
515.0			NO RECORD	44.0	0.0	
471.0			LIMESTONE	5.0	44.0	
466.0			SANDSTONE	135.0	49.0	
331.0			LIMESTONE	5.0	184.0	
326.0			COAL	2.0	189.0	
324.0			DARK SHALE	113.0	191.0	
211.0			COAL	4.0	304.0	
207.0			SHALE & SANDSTONE	87.0	308.0	
120.0			SHALE	63.0	395.0	
57.0			LIMESTONE	10.0	458.0	
47.0			SHALE	7.0	468.0	
40.0	CARBONDALE	HERRIN	COAL	5.0	475.0	UNCERTAIN CORRELATION
35.0			SHALE	82.0	480.0	
-47.0			COAL	3.0	562.0	
-50.0			SANDSTONE	40.0	565.0	
-90.0			SHALE	102.0	605.0	
-192.0			SANDSTONE	72.0	707.0	
-264.0			SHALE	31.0	779.0	
-295.0			SANDSTONE	18.0	810.0	
-313.0			SHALE	72.0	828.0	
-385.0			SANDY SHALE	10.0	900.0	
-395.0			SHALE	36.0	910.0	
-431.0			LIMESTONE	32.0	946.0	

MAPID: 00500075000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 35 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.291433 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.830262 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 495.0 **LOG TYPE:** Drillers Log

SOURCE: STURM, A & SONS **WELL TYPE:** Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
6.0	CARBONDALE	HERRIN	COAL	5.0	490.0	

MAPID: 00500075000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 5N 2W **SECTION:** 35 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.291433 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.830262 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 496.1 **LOGGED (FT.):** 900.0 **LOG TYPE:**

SOURCE: RIGGS, **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
1.1	CARBONDALE	HERRIN	COAL	-	495.0	CORRELATION UNCERTAIN

MAPID: 00501072000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE NW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.422654 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.911611 **DATE COLLECTED:** 6 / 0 / 1957

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: NASH & REDWINE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	2.0	397.0	
147.0	MODESTO		UNCLASSIFIED	3.0	399.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
144.0	CARBONDALE	DANVILLE	COAL	2.0	402.0	
142.0	CARBONDALE		UNCLASSIFIED	16.0	404.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
126.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	420.0	
118.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	428.0	
116.5	CARBONDALE		UNCLASSIFIED	1.5	429.5	SHALE ABOVE BRERETON LIMESTONE
115.0	CARBONDALE	BRERETON	LIMESTONE	1.0	431.0	
114.0	CARBONDALE	ANNA	BLACK SHALE	1.0	432.0	
113.0	CARBONDALE	HERRIN	COAL	4.0	433.0	

MAPID: 00500057000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** SE SE NE NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.447829 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.912846 **DATE COLLECTED:** 7 / 12 / 1920

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 479.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
558.0			UNCONSOLIDATED	121.5	0.0	
436.5			ROCK	93.2	121.5	
343.3			COAL	1.6	214.7	
341.8			ROCK	233.6	216.2	
108.2			COAL	0.4	449.8	
107.7			UNDERCLAY	2.8	450.3	
105.0			SHALE	1.0	453.0	
104.0			LIMESTONE	3.0	454.0	
101.0			SHALE	1.0	457.0	
100.0			LIMESTONE	4.0	458.0	
96.0			SHALE	2.5	462.0	
93.5			BLACK SHALE	6.0	464.5	
87.5			SHALE	1.1	470.5	"HARD, LIMEY"
86.4	CARBONDALE	HERRIN	COAL	6.0	471.6	
80.4			ROCK	1.4	477.6	

MAPID: 00500057000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** SE SE NE NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.447829 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.912846 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 478.0 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
124.6	MODESTO	PIASA	LIMESTONE	6.5	433.4	
118.1	MODESTO		VARRIGATED SHALE	10.3	439.9	
107.8	CARBONDALE	DANVILLE	COAL	0.4	450.2	
107.3	CARBONDALE		CLAYSTONE	2.8	450.7	
104.6	CARBONDALE		CALCAREOUS SHALE	1.0	453.4	
103.6	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	454.4	UPPER BENCH
100.6	CARBONDALE	BANKSTON FORK	SHALE	1.0	457.4	SHALE PARTING
99.6	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	458.4	LOWER BENCH
95.6	CARBONDALE	LAWSON	CALCAREOUS SHALE	2.5	462.4	
93.1	CARBONDALE		BLACK SHALE	6.0	464.9	
87.1	CARBONDALE	BRERETON	LIMESTONE	0.9	470.9	
86.2	CARBONDALE	ANNA	BLACK SHALE	0.2	471.8	
86.0	CARBONDALE	HERRIN	COAL	6.0	472.0	

MAPID: 00500057000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** SE SE NE NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.447829 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.912846 **DATE COLLECTED:** 7 / 0 / 1920

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 478.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
124.7	MODESTO	PIASA	LIMESTONE	6.5	433.3	
118.2	MODESTO		UNCLASSIFIED	3.8	439.8	INTERVAL ABOVE DANVILLE, BELOW PIASA
114.4	CARBONDALE		UNCLASSIFIED	10.7	443.6	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
103.7	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	454.3	
95.7	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	462.3	
94.4	CARBONDALE		UNCLASSIFIED	1.3	463.6	SHALE ABOVE BRERETON LIMESTONE
93.1	CARBONDALE	BRERETON	LIMESTONE	6.0	464.9	
87.1	CARBONDALE	ANNA	BLACK SHALE	1.1	470.9	
86.0	CARBONDALE	HERRIN	COAL	6.0	472.0	

MAPID: 00500057000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** SE SE NE NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.447829 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.912846 **DATE COLLECTED:** 0 / 0 / 1914
SURFACE ELEVATION (FT.): 557.5 **LOGGED (FT.):** 479.0 **LOG TYPE:**
SOURCE: PEABODY 0017 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
85.5	CARBONDALE	HERRIN	COAL	6.0	472.0	

MAPID: 00500730000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.457705 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.902022 **DATE COLLECTED:** 10 / 0 / 1957
SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 486.0 **LOG TYPE:** Electric Log
SOURCE: ENGLE, GEORGE S. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
126.0	MODESTO	PIASA	LIMESTONE	4.0	442.0	
122.0	MODESTO		UNCLASSIFIED	4.0	446.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
118.0	CARBONDALE		UNCLASSIFIED	13.0	450.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
105.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	463.0	
97.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	471.0	
95.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	473.0	
94.0	CARBONDALE		UNCLASSIFIED	2.0	474.0	SHALE ABOVE BRERETON LIMESTONE
92.0	CARBONDALE	BRERETON	LIMESTONE	3.0	476.0	
89.0	CARBONDALE	ANNA	BLACK SHALE	1.0	479.0	
88.0	CARBONDALE	HERRIN	COAL	6.0	480.0	

MAPID: 00500103000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 100' S line, 1050' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.482278 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.901145 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	CARBONDALE	HERRIN	COAL	8.0	372.0	

MAPID: 00500103000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 100' S line, 1050' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.482278 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 38.901145 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 8.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY C C **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
499.0			UNKNOWN	371.0	0.0	
128.0	CARBONDALE	HERRIN	COAL	8.0	371.0	

MAPID: 00500103000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 100' S line, 1050' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.482278 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.901145 **DATE COLLECTED:** 0 / 0 / 1931
SURFACE ELEVATION (FT.): 498.5 **LOGGED (FT.):** 379.0 **LOG TYPE:**
SOURCE: PEABODY 7 **WELL TYPE:** Coal Test
COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
127.5	CARBONDALE	HERRIN	COAL	8.0	371.0	

MAPID: 00590006000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 1313' S line, 1500' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.480719 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 38.904507 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 521.7 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. #15 **WELL TYPE:** Coal Test
COMMENT: COAL RIGHTS BOND CO; MAP RETURNED TO CO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
535.0			UNKNOWN	349.0	0.0	
186.0	CARBONDALE		LIMESTONE	0.5	349.0	
185.5	CARBONDALE		CLAYSTONE & SHALE	2.0	349.5	
183.5	CARBONDALE		DARK SHALE	9.5	351.5	
174.0	CARBONDALE		BLACK SHALE	10.2	361.0	
163.8	CARBONDALE	DANVILLE	COAL	0.7	371.2	
163.2	CARBONDALE		SHALE	31.2	371.8	
132.0	CARBONDALE	ANVIL ROCK	SHALY SANDSTONE	17.0	403.0	HERRIN COAL ERODED
115.0	CARBONDALE		SANDY SHALE	42.0	420.0	
73.0	CARBONDALE		SHALE	1.0	462.0	
72.0	CARBONDALE		LIMESTONE	3.0	463.0	
69.0	CARBONDALE		SHALE	2.0	466.0	
67.0	CARBONDALE		SANDY SHALE	50.0	468.0	
17.0	CARBONDALE	SPRINGFIELD	COAL	3.7	518.0	

MAPID: 00500058000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.431851 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.889518 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 489.4 **LOGGED (FT.):** 1082.0 **LOG TYPE:**
SOURCE: OHIO OIL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
69.4	CARBONDALE	HERRIN	COAL	4.0	420.0	

MAPID: 00500102000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 650' N line, 1050' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.443423 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.899471 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 421.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
511.0			UNCONSOLIDATED	103.0	0.0	
408.0			ROCK	59.0	103.0	
349.0			COAL	1.0	162.0	
348.0			ROCK	228.5	163.0	
119.5	CARBONDALE	DANVILLE	COAL	1.5	391.5	
118.0			UNDERCLAY	1.0	393.0	
117.0			SHALE	6.0	394.0	
111.0			LIMESTONE	1.0	400.0	
110.0			SHALE	1.0	401.0	
109.0			LIMESTONE	2.0	402.0	
107.0			SHALE	7.8	404.0	THICKNESS DOESN'T AGREE W/DEPTHS
99.2			BLACK SHALE	2.2	411.8	
97.1			LIMESTONE	1.0	413.9	
96.1			BLACK SHALE	0.3	414.9	
95.7	CARBONDALE	HERRIN	COAL	5.0	415.3	
90.7			ROCK	0.8	420.3	

MAPID: 00500102000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 650' N line, 1050' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.443423 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.899471 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.5	MODESTO	PIASA	LIMESTONE	5.5	376.5	
129.0	MODESTO		SHALE	14.5	382.0	
114.5	CARBONDALE	DANVILLE	COAL	1.5	396.5	
113.0	CARBONDALE		CLAYSTONE	1.0	398.0	
112.0	CARBONDALE		SHALE	6.0	399.0	
106.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	405.0	UPPER BENCH
105.0	CARBONDALE	BANKSTON FORK	CALCAREOUS SHALE	1.0	406.0	SHALE PARTING
104.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	407.0	LOWER BENCH
102.0	CARBONDALE	LAWSON	CALCAREOUS SHALE	2.5	409.0	
99.5	CARBONDALE		BLACK SHALE	2.2	411.5	
97.3	CARBONDALE	BRERETON	LIMESTONE	1.0	413.7	
96.3	CARBONDALE	ANNA	BLACK SHALE	0.3	414.7	
96.0	CARBONDALE	HERRIN	COAL	5.0	415.0	

MAPID: 00500102000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 650' N line, 1050' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.443423 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.899471 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
139.8	MODESTO	PIASA	LIMESTONE	5.5	371.2	
134.3	MODESTO		UNCLASSIFIED	5.0	376.7	INTERVAL ABOVE DANVILLE, BELOW PIASA
129.3	CARBONDALE		UNCLASSIFIED	18.0	381.7	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
111.3	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.3	399.7	
102.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	409.0	
99.5	CARBONDALE		UNCLASSIFIED	2.2	411.5	SHALE ABOVE BRERETON LIMESTONE
97.3	CARBONDALE	BRERETON	LIMESTONE	1.0	413.7	
96.3	CARBONDALE	ANNA	BLACK SHALE	0.3	414.7	
96.0	CARBONDALE	HERRIN	COAL	5.0	415.0	

MAPID: 00500102000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 650' N line, 1050' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.443423 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.899471 **DATE COLLECTED:** 0 / 0 / 1931
SURFACE ELEVATION (FT.): 511.2 **LOGGED (FT.):** 421.0 **LOG TYPE:**
SOURCE: PEABODY 0005 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
96.2	CARBONDALE	HERRIN	COAL	5.0	415.0	

MAPID: 00523022000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** NW SW SW SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.446438 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.887899 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 369.2 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY IG-800 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.2	363.0	

MAPID: 00570017000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 360' S line, 660' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.430673 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 38.887786 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 801.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 14C58 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
489.0			UNCLASSIFIED	166.0	0.0	
323.0			COAL	2.0	166.0	
321.0			UNCLASSIFIED	241.0	168.0	
80.0			LIMESTONE	6.0	409.0	
74.0			BLACK SHALE	5.0	415.0	
69.0	CARBONDALE	HERRIN	COAL	4.0	420.0	
65.0	CARBONDALE		GREEN SHALE	20.0	424.0	
45.0	CARBONDALE	SPRINGFIELD		8.0	444.0	UNCERTAIN CORRELATION
37.0	CARBONDALE		UNCLASSIFIED	178.0	452.0	
-141.0	CARBONDALE	COLCHESTER	COAL	6.0	630.0	UNCERTAIN CORRELATION
-147.0			UNCLASSIFIED	165.0	636.0	

MAPID: 00590007000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 1200' N line, 1200' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.442876 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.89796 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 420.3 **LOG TYPE:** Company map

SOURCE: PEABODY COAL CO. #14 **WELL TYPE:** Coal Test

COMMENT: COAL RIGHTS BOND CO; MAP RETURNED TO CO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
524.0			UNKNOWN	406.0	0.0	
118.0	CARBONDALE		LIMESTONE	3.3	406.0	
114.7	CARBONDALE		SHALE	2.5	409.3	
112.2	CARBONDALE		BLACK SHALE	2.2	411.8	
110.1	CARBONDALE		LIMESTONE	1.0	413.9	POSSIBLY A CONCRETION
109.1	CARBONDALE		BLACK SHALE	0.3	414.9	
108.7	CARBONDALE	HERRIN	COAL	5.0	415.3	

MAPID: 00500609000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 1980' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.383914 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.886399 **DATE COLLECTED:** 7 / 0 / 1952

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 521.5 **LOG TYPE:** Electric Log

SOURCE: WILSON, ARNOLD **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
92.0	MODESTO	PIASA	LIMESTONE	3.0	474.0	
89.0	MODESTO		UNCLASSIFIED	4.0	477.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
85.0	CARBONDALE		UNCLASSIFIED	17.0	481.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
68.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	498.0	
59.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	507.0	
56.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	510.0	
55.0	CARBONDALE		UNCLASSIFIED	2.0	511.0	SHALE ABOVE BRERETON LIMESTONE
53.0	CARBONDALE	BRERETON	LIMESTONE	3.0	513.0	
50.0	CARBONDALE	ANNA	BLACK SHALE	2.0	516.0	
48.0	CARBONDALE	HERRIN	COAL	3.5	518.0	

MAPID: 00500609000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 1980' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.383914 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.886399 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 526.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
48.5	CARBONDALE	BRERETON	LIMESTONE	2.5	517.5	
46.0	CARBONDALE	ANNA	BLACK SHALE	2.0	520.0	
44.0	CARBONDALE	HERRIN	COAL	4.0	522.0	

MAPID: 00570016000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 13 **QUARTERS/FOOTAGES:** 1080' N line, 1690' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.384903 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.884321 **DATE COLLECTED:** 0 / 0 / 1952

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 955.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 15C609 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
566.0			NO RECORD	168.0	0.0	
398.0			SHALE & SANDSTONE	155.0	168.0	
243.0			SHALE	42.0	323.0	
201.0			SHALE & SANDSTONE	40.0	365.0	
161.0			SHALE	30.0	405.0	
131.0			LIMESTONE	45.0	435.0	
86.0			SHALE	105.0	480.0	
-19.0	CARBONDALE	COLCHESTER	COAL	2.0	585.0	UNCERTAIN CORRELATION
-21.0			SANDSTONE	78.0	587.0	
-99.0			SHALE & SANDSTONE	35.0	665.0	
-134.0			SANDSTONE	12.0	700.0	
-146.0			SANDY SHALE	98.0	712.0	
-244.0			SHALE	30.0	810.0	
-274.0			LIMESTONE	20.0	840.0	
-294.0			SANDSTONE	10.0	860.0	
-304.0			SHALE	85.0	870.0	

MAPID: 00500386000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403688 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.87348 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: WEIMER FRANK G **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	4.0	394.0	
136.0	MODESTO		UNCLASSIFIED	3.0	398.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.0	CARBONDALE	DANVILLE	COAL	2.0	401.0	
131.0	CARBONDALE		UNCLASSIFIED	16.0	403.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
115.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	419.0	
106.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	428.0	
104.5	CARBONDALE		UNCLASSIFIED	1.5	429.5	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	1.0	431.0	
102.0	CARBONDALE	ANNA	BLACK SHALE	1.0	432.0	
101.0	CARBONDALE	HERRIN	COAL	4.0	433.0	

MAPID: 00500059000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW NE SE NW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.420717 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.882838 **DATE COLLECTED:** 6 / 0 / 1884

SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 500.0 **LOG TYPE:** Drillers Log

SOURCE: GREENVILLE & VANDALIA **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
585.0			UNCONSOLIDATED	204.0	0.0	
381.0			ROCK	255.0	204.0	
126.0			SHALE	20.0	459.0	"SOAPSTONE"
106.0			LIMESTONE	3.0	479.0	
103.0			SHALE	4.0	482.0	"SOAPSTONE"
99.0			LIMESTONE	2.0	486.0	
97.0	CARBONDALE	HERRIN	COAL	5.5	488.0	
91.5			ROCK	6.5	493.5	

MAPID: 00500059000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW NE SE NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.420717 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.882838 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 493.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
138.0	MODESTO	PIASA	LIMESTONE	9.0	445.0	
129.0	MODESTO		VARRIGATED SHALE	15.0	454.0	
114.0	CARBONDALE		SHALE	4.0	469.0	
110.0	CARBONDALE		BLACK SHALE	2.0	473.0	
108.0	CARBONDALE		SHALE	4.0	475.0	
104.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	479.0	LOWER BENCH
101.0	CARBONDALE	LAWSON	SHALE	4.0	482.0	
97.0	CARBONDALE	BRERETON	LIMESTONE	2.0	486.0	
95.0	CARBONDALE	HERRIN	COAL	5.5	488.0	

MAPID: 00500059000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW NE SE NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.420717 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.882838 **DATE COLLECTED:** 6 / 0 / 1884
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 493.5 **LOG TYPE:** Drillers Log
SOURCE: GREENVILLE & VANDALI **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	9.0	445.0	
131.0	MODESTO		UNCLASSIFIED	5.0	454.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
126.0	CARBONDALE		UNCLASSIFIED	14.0	459.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
112.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	473.0	
103.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	482.0	
101.0	CARBONDALE		UNCLASSIFIED	2.0	484.0	SHALE ABOVE BRERETON LIMESTONE
99.0	CARBONDALE	BRERETON	LIMESTONE	2.0	486.0	
97.0	CARBONDALE	HERRIN	COAL	5.5	488.0	

MAPID: 00500059000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW NE SE NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.420717 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.882838 **DATE COLLECTED:** 0 / 0 / 1984
SURFACE ELEVATION (FT.): 585.3 **LOGGED (FT.):** 500.0 **LOG TYPE:**
SOURCE: GREENVVAND **WELL TYPE:** Underground mine
COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
97.3	CARBONDALE	HERRIN	COAL	5.5	488.0	

MAPID: 00500060000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 626' N line, 242' W line of SE SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.41337 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.874366 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 556.2 **LOGGED (FT.):** 1079.0 **LOG TYPE:**
SOURCE: SUMMERF GC0001 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
97.2	CARBONDALE	HERRIN	COAL	2.0	459.0	

MAPID: 00500060000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 626' N line, 242' W line of SE SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.41337 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.874366 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 461.0 **LOG TYPE:** Drillers Log
SOURCE: SUMMERFIELD GAS CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
143.0	MODESTO	PIASA	LIMESTONE	5.0	413.0	
138.0	MODESTO		UNCLASSIFIED	5.0	418.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.0	CARBONDALE		UNCLASSIFIED	12.0	423.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
121.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	435.0	
115.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	441.0	
112.0	CARBONDALE		UNCLASSIFIED	2.0	444.0	SHALE ABOVE BRERETON LIMESTONE
110.0	CARBONDALE	BRERETON	LIMESTONE	3.0	446.0	
107.0	CARBONDALE	ANNA	BLACK SHALE	5.0	449.0	
102.0	CARBONDALE	HERRIN	COAL	7.0	454.0	

MAPID: 00500717000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.417698 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.873325 **DATE COLLECTED:** 8 / 0 / 1957

SURFACE ELEVATION (FT.): 549.0 **LOGGED (FT.):** 456.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.1	MODESTO	PIASA	LIMESTONE	7.0	405.9	
136.1	MODESTO		UNCLASSIFIED	6.0	412.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
130.1	CARBONDALE	DANVILLE	COAL	2.0	418.9	
128.1	CARBONDALE		UNCLASSIFIED	15.0	420.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	435.9	
104.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	444.4	
102.8	CARBONDALE		UNCLASSIFIED	1.8	446.2	SHALE ABOVE BRERETON LIMESTONE
101.0	CARBONDALE	BRERETON	LIMESTONE	1.0	448.0	
100.0	CARBONDALE	ANNA	BLACK SHALE	3.0	449.0	
97.0	CARBONDALE	HERRIN	COAL	4.0	452.0	

MAPID: 00500135000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 700' S line, 3100' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.435966 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.874132 **DATE COLLECTED:** 0 / 0 / 1937

SURFACE ELEVATION (FT.): 550.9 **LOGGED (FT.):** 1087.0 **LOG TYPE:**

SOURCE: HEMP BURG **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
122.9	CARBONDALE	HERRIN	COAL	4.0	428.0	

MAPID: 00500135000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 700' S line, 3100' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.435966 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.874132 **DATE COLLECTED:** 0 / 0 / 1937

SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 432.0 **LOG TYPE:** Drillers Log

SOURCE: HEMPEN & BURGESS **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	CARBONDALE	HERRIN	COAL	4.0	428.0	

MAPID: 00500722000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 870' N line, 2340' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.436568 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.884289 **DATE COLLECTED:** 8 / 0 / 1957

SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 394.5 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	5.0	339.0	
144.0	MODESTO		UNCLASSIFIED	3.0	344.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
141.0	CARBONDALE	DANVILLE	COAL	2.0	347.0	
139.0	CARBONDALE		UNCLASSIFIED	24.0	349.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
115.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.0	373.0	
104.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	384.0	
102.5	CARBONDALE		UNCLASSIFIED	1.5	385.5	SHALE ABOVE BRERETON LIMESTONE
101.0	CARBONDALE	BRERETON	LIMESTONE	1.0	387.0	
100.0	CARBONDALE	ANNA	BLACK SHALE	1.0	388.0	
99.0	CARBONDALE	HERRIN	COAL	5.5	389.0	

MAPID: 00500930000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 2285' S line, 47' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.428397 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.878627 **DATE COLLECTED:** 6 / 0 / 1962

SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 516.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	5.5	464.0	
113.5	MODESTO		UNCLASSIFIED	1.5	469.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
112.0	CARBONDALE	DANVILLE	COAL	2.5	471.0	
109.5	CARBONDALE		UNCLASSIFIED	22.5	473.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
87.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	496.0	
78.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	505.0	
75.5	CARBONDALE		UNCLASSIFIED	2.5	507.5	SHALE ABOVE BRERETON LIMESTONE
73.0	CARBONDALE	BRERETON	LIMESTONE	1.0	510.0	
72.0	CARBONDALE	ANNA	BLACK SHALE	1.0	511.0	
71.0	CARBONDALE	HERRIN	COAL	4.0	512.0	

MAPID: 00523023000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** SW SW SW SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.436942 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.872639 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 473.1 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY IG-769 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.1	467.0	

MAPID: 00500583000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 18 **QUARTERS/FOOTAGES:** 200' S line, 280' W line of NE NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.479795 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.883211 **DATE COLLECTED:** 10 / 0 / 1940
SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 441.0 **LOG TYPE:** Electric Log
SOURCE: KINGWOOD OIL CO **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
103.0	CARBONDALE	HERRIN	COAL	5.0	436.0	

MAPID: 00523024000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 19 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.474371 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.870828 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 439.7 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY IG-765 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.7	433.0	

MAPID: 00500061000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE NE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.457284 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.861925 **DATE COLLECTED:** 11 / 8 / 1913

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Drillers Log

SOURCE: SULLIVAN MACHINERY CO **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
491.0			UNCONSOLIDATED	52.3	0.0	
438.7			ROCK	81.6	52.3	
357.1			COAL	0.1	133.9	SPLIT OF COAL BELOW
357.0			LIMESTONE	0.5	134.0	
356.5			COAL	1.3	134.5	LIMESTONE PARTING .16'
355.2			SHALE	35.0	135.8	
320.2			COAL WITH SHALE	0.4	170.8	COAL AND SH.
319.7			ROCK	157.7	171.3	
162.1			COAL	1.3	328.9	
160.8			ROCK	26.8	330.2	
134.0			SHALE	30.0	357.0	
104.0			LIMESTONE	11.0	387.0	
93.0			SHALE	3.8	398.0	
89.2	CARBONDALE	HERRIN	COAL	7.1	401.8	BLUE BAND .16'
82.1			ROCK	1.1	408.9	

MAPID: 00500061000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE NE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.457284 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.861925 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 409.1 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.8	CARBONDALE	LAWSON	SILTY SHALE	26.0	357.2	
109.8	CARBONDALE		CLAYSTONE & SHALE	4.0	383.2	
105.8	CARBONDALE	BRERETON	LIMESTONE	11.0	387.2	
94.8	CARBONDALE	ANNA	DARK GRAY SHALE	3.8	398.2	
91.0	CARBONDALE	HERRIN	COAL	7.1	402.0	

MAPID: 00500061000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.457284 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.861925 **DATE COLLECTED:** 11 / 0 / 1913
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 409.1 **LOG TYPE:** Drillers Log
SOURCE: SULLIVAN MACHINE CO **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
107.8	CARBONDALE		UNCLASSIFIED	4.0	383.2	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
103.8	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	387.2	
97.8	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	393.2	
96.3	CARBONDALE		UNCLASSIFIED	1.5	394.7	SHALE ABOVE BRERETON LIMESTONE
94.8	CARBONDALE	BRERETON	LIMESTONE	2.0	396.2	
92.8	CARBONDALE	ANNA	BLACK SHALE	3.8	398.2	
89.0	CARBONDALE	HERRIN	COAL	7.1	402.0	

MAPID: 00500061000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.457284 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.861925 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 490.9 **LOGGED (FT.):** 410.0 **LOG TYPE:**
SOURCE: SULLIVN MA0003 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
88.9	CARBONDALE	HERRIN	COAL	7.1	402.0	

MAPID: 00500148000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433899 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.864007 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 2457.0 **LOG TYPE:**
SOURCE: JARVIS BRO **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
63.0	CARBONDALE	HERRIN	COAL	5.0	505.0	

MAPID: 00500148000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NW SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.433899 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.864007 **DATE COLLECTED:** 0 / 0 / 1939

SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 507.5 **LOG TYPE:** Drillers Log

SOURCE: JARVIS BROS-MARCELL **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.0	MODESTO	PIASA	LIMESTONE	4.0	453.0	
111.0	MODESTO		UNCLASSIFIED	4.0	457.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
107.0	CARBONDALE	DANVILLE	COAL	1.5	461.0	
105.5	CARBONDALE		UNCLASSIFIED	23.5	462.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	486.0	
72.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	496.0	
70.0	CARBONDALE		UNCLASSIFIED	2.0	498.0	SHALE ABOVE BRERETON LIMESTONE
68.0	CARBONDALE	BRERETON	LIMESTONE	1.0	500.0	
67.0	CARBONDALE	ANNA	BLACK SHALE	1.0	501.0	
66.0	CARBONDALE	HERRIN	COAL	5.5	502.0	

MAPID: 00500062000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 131' N line, 133' E line of SE SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.409718 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.861133 **DATE COLLECTED:** 0 / 0 / 1912

SURFACE ELEVATION (FT.): 531.7 **LOGGED (FT.):** 1054.0 **LOG TYPE:**

SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
105.7	CARBONDALE	HERRIN	COAL	4.0	426.0	CORRELATION UNCERTAIN
38.7	CARBONDALE	SPRINGFIELD	COAL	4.0	493.0	CORRELATION UNCERTAIN

MAPID: 00500063000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 97' N line, 824' W line of NE SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.411115 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.864878 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 925.0 **LOG TYPE:**

SOURCE: SUMMERF GC **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
135.0	CARBONDALE	HERRIN	COAL	2.0	400.0	

MAPID: 00500064000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 600' S line, 43' E line of NE SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.409454 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.863154 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 532.4 **LOGGED (FT.):** 929.0 **LOG TYPE:**
SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test
COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
97.4	CARBONDALE	HERRIN	COAL	5.0	435.0	

MAPID: 00500064000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 600' S line, 43' E line of NE SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.409454 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.863154 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 440.0 **LOG TYPE:** Drillers Log
SOURCE: BOND COUNTY GAS CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
102.0	CARBONDALE	ANNA	BLACK SHALE	5.0	430.0	
97.0	CARBONDALE	HERRIN	COAL	5.0	435.0	

MAPID: 00500072000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.411646 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.86331 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 158.0 **LOG TYPE:**
SOURCE: LINDLEY CV **WELL TYPE:** Water Well
COMMENT: LOCATION AND SURFACE ELEVATION UNCERTAIN

MAPID: 00500160000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 990' S line, 990' E line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.412727 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.860539 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 2369.0 **LOG TYPE:**
SOURCE: SEABOARD OIL CO. **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
85.0	CARBONDALE	HERRIN	COAL	5.0	445.0	

MAPID: 00500160000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 990' S line, 990' E line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.412727 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.860539 **DATE COLLECTED:** 6 / 0 / 1940
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 436.0 **LOG TYPE:** Electric Log
SOURCE: SEABOARD OIL OF DE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
136.5	MODESTO	PIASA	LIMESTONE	3.5	393.5	
133.0	MODESTO		UNCLASSIFIED	6.0	397.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
127.0	CARBONDALE		UNCLASSIFIED	18.0	403.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
109.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	421.0	
102.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	428.0	
100.5	CARBONDALE		UNCLASSIFIED	1.5	429.5	SHALE ABOVE BRERETON LIMESTONE
99.0	CARBONDALE	ANNA	BLACK SHALE	1.0	431.0	
98.0	CARBONDALE	HERRIN	COAL	4.0	432.0	

MAPID: 00500451000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.419889 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.865983 **DATE COLLECTED:** 6 / 0 / 1956
SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 444.0 **LOG TYPE:** Electric Log
SOURCE: CREST OIL CO., INC. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	4.0	396.0	
143.0	MODESTO		UNCLASSIFIED	5.0	400.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
138.0	CARBONDALE	DANVILLE	COAL	3.0	405.0	
135.0	CARBONDALE		UNCLASSIFIED	17.0	408.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
118.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	425.0	
110.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	433.0	
107.5	CARBONDALE		UNCLASSIFIED	2.5	435.5	SHALE ABOVE BRERETON LIMESTONE
105.0	CARBONDALE	BRERETON	LIMESTONE	1.0	438.0	
104.0	CARBONDALE	ANNA	BLACK SHALE	1.0	439.0	
103.0	CARBONDALE	HERRIN	COAL	4.0	440.0	

MAPID: 00500585000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.410595 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.867903 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 430.0 **LOG TYPE:** Electric Log

SOURCE: REED H S **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.6	MODESTO	PIASA	LIMESTONE	3.0	385.4	
146.6	MODESTO		UNCLASSIFIED	4.0	388.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
142.6	CARBONDALE	DANVILLE	COAL	1.5	392.4	
141.1	CARBONDALE		UNCLASSIFIED	14.0	393.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	407.9	
118.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	416.9	
115.3	CARBONDALE		UNCLASSIFIED	2.8	419.7	SHALE ABOVE BRERETON LIMESTONE
112.5	CARBONDALE	BRERETON	LIMESTONE	1.5	422.5	
111.0	CARBONDALE	ANNA	BLACK SHALE	2.0	424.0	
109.0	CARBONDALE	HERRIN	COAL	4.0	426.0	

MAPID: 00500586000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.419778 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.860489 **DATE COLLECTED:** 12 / 0 / 1953

SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
126.0	MODESTO	PIASA	LIMESTONE	5.0	400.0	
121.0	MODESTO		UNCLASSIFIED	5.0	405.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
116.0	CARBONDALE		UNCLASSIFIED	16.0	410.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
100.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	426.0	
91.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	435.0	
87.5	CARBONDALE		UNCLASSIFIED	3.5	438.5	SHALE ABOVE BRERETON LIMESTONE
84.0	CARBONDALE	BRERETON	LIMESTONE	1.0	442.0	
83.0	CARBONDALE	ANNA	BLACK SHALE	1.0	443.0	
82.0	CARBONDALE	HERRIN	COAL	4.0	444.0	

MAPID: 00500610000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.42223 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.865963 **DATE COLLECTED:** 10 / 0 / 1953

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 454.0 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	4.0	404.0	
138.0	MODESTO		UNCLASSIFIED	8.0	408.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
130.0	CARBONDALE		UNCLASSIFIED	17.5	416.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
112.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	433.5	
104.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	442.0	
101.0	CARBONDALE		UNCLASSIFIED	3.0	445.0	SHALE ABOVE BRERETON LIMESTONE
98.0	CARBONDALE	BRERETON	LIMESTONE	1.5	448.0	
96.5	CARBONDALE	ANNA	BLACK SHALE	0.5	449.5	
96.0	CARBONDALE	HERRIN	COAL	4.0	450.0	

MAPID: 00500698000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 2310' N line, 330' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.410548 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.866101 **DATE COLLECTED:** 5 / 0 / 1957

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

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	4.5		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	12.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.0		
-	CARBONDALE	ANNA	BLACK SHALE	1.0		
-	CARBONDALE	HERRIN	COAL	4.0		ELEVATION OF HERRIN = 110

MAPID: 00500698000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 2310' N line, 330' E line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.410548 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.866101 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 424.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.0	MODESTO	PIASA	LIMESTONE	4.5	382.0	
143.5	MODESTO		SHALE	5.0	386.5	
138.5	CARBONDALE		SHALE	5.0	391.5	
133.5	CARBONDALE		SHALE	5.0	396.5	
128.5	CARBONDALE	CONANT	LIMESTONE	4.0	401.5	
124.5	CARBONDALE		SHALE	3.5	405.5	
121.0	CARBONDALE	BRERETON	LIMESTONE	4.5	409.0	
116.5	CARBONDALE	ANNA	SHALE	3.5	413.5	
111.0	CARBONDALE	HERRIN	COAL	5.5	419.0	

MAPID: 00500970000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 779' N line, 703' E line of SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.411781 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.86299 **DATE COLLECTED:** 7 / 0 / 1963

SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 429.0 **LOG TYPE:** Electric Log

SOURCE: ILLINOIS POWER CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.0	MODESTO	PIASA	LIMESTONE	5.5	377.0	
149.5	MODESTO		UNCLASSIFIED	7.5	382.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
142.0	CARBONDALE		UNCLASSIFIED	22.0	390.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
120.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	412.0	
112.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	420.0	
110.0	CARBONDALE		UNCLASSIFIED	2.0	422.0	SHALE ABOVE BRERETON LIMESTONE
108.0	CARBONDALE	BRERETON	LIMESTONE	1.0	424.0	
107.0	CARBONDALE	ANNA	BLACK SHALE	1.0	425.0	
106.0	CARBONDALE	HERRIN	COAL	3.0	426.0	

MAPID: 00501039000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.419925 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.867814 **DATE COLLECTED:** 1 / 0 / 1954

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 445.0 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.1	MODESTO	PIASA	LIMESTONE	4.0	396.9	
145.1	MODESTO		UNCLASSIFIED	5.0	400.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
140.1	CARBONDALE		UNCLASSIFIED	19.0	405.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
121.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	424.9	
112.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	433.4	
110.8	CARBONDALE		UNCLASSIFIED	1.8	435.2	SHALE ABOVE BRERETON LIMESTONE
109.0	CARBONDALE	BRERETON	LIMESTONE	1.5	437.0	
107.5	CARBONDALE	ANNA	BLACK SHALE	1.5	438.5	
106.0	CARBONDALE	HERRIN	COAL	5.0	440.0	

MAPID: 00501040000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 350' S line, 330' E line of NE SE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.419925 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.867869 **DATE COLLECTED:** 2 / 0 / 1954

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log

SOURCE: HOILES PETRO CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	5.0	404.0	
137.0	MODESTO		UNCLASSIFIED	4.5	409.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
132.5	CARBONDALE		UNCLASSIFIED	13.5	413.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
119.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	427.0	
112.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	434.0	
109.0	CARBONDALE		UNCLASSIFIED	3.0	437.0	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	ANNA	BLACK SHALE	2.0	440.0	
104.0	CARBONDALE	HERRIN	COAL	5.0	442.0	

MAPID: 00501352000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.417631 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.869664 **DATE COLLECTED:** 1 / 0 / 1969

SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 443.0 **LOG TYPE:** Electric Log

SOURCE: SHAKESPEARE OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
144.0	MODESTO	PIASA	LIMESTONE	5.0	401.0	
139.0	MODESTO		UNCLASSIFIED	5.0	406.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
134.0	CARBONDALE		UNCLASSIFIED	12.0	411.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
122.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	423.0	
113.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	432.0	
110.5	CARBONDALE		UNCLASSIFIED	2.5	434.5	SHALE ABOVE BRERETON LIMESTONE
108.0	CARBONDALE	BRERETON	LIMESTONE	2.0	437.0	
106.0	CARBONDALE	ANNA	BLACK SHALE	1.0	439.0	
105.0	CARBONDALE	HERRIN	COAL	3.0	440.0	

MAPID: 00500065000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** 600' N line, 400' W line of NE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403196 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.863541 **DATE COLLECTED:** 0 / 0 / 1910

SURFACE ELEVATION (FT.): 538.9 **LOGGED (FT.):** 1145.0 **LOG TYPE:**

SOURCE: SUMMERF GC **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
88.9	CARBONDALE	HERRIN	COAL	2.0	450.0	

MAPID: 00500249000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.405884 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.867944 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: KAPP L A JR **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.0	MODESTO	PIASA	LIMESTONE	3.0	392.0	
140.0	MODESTO		UNCLASSIFIED	4.0	395.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
136.0	CARBONDALE	DANVILLE	COAL	2.0	399.0	
134.0	CARBONDALE		UNCLASSIFIED	16.0	401.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
118.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	417.0	
110.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	425.0	
108.0	CARBONDALE		UNCLASSIFIED	2.0	427.0	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	BRERETON	LIMESTONE	1.5	429.0	
104.5	CARBONDALE	ANNA	BLACK SHALE	2.5	430.5	
102.0	CARBONDALE	HERRIN	COAL	4.0	433.0	

MAPID: 00523025000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.408008 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.858755 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 442.8 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY WF-6 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.8	437.0	

MAPID: 00500581000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.381864 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.844254 **DATE COLLECTED:** 9 / 0 / 1954
SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 466.5 **LOG TYPE:** Electric Log
SOURCE: ALCH DRILLING CO. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
117.1	MODESTO	PIASA	LIMESTONE	4.5	421.9	
112.6	MODESTO		UNCLASSIFIED	3.0	426.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
109.6	CARBONDALE	DANVILLE	COAL	2.0	429.4	
107.6	CARBONDALE		UNCLASSIFIED	15.0	431.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
92.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	446.4	
85.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	453.9	
82.8	CARBONDALE		UNCLASSIFIED	2.3	456.2	SHALE ABOVE BRERETON LIMESTONE
80.5	CARBONDALE	BRERETON	LIMESTONE	1.5	458.5	
79.0	CARBONDALE	ANNA	BLACK SHALE	2.0	460.0	
77.0	CARBONDALE	HERRIN	COAL	4.5	462.0	

MAPID: 00500066000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** 89' N line, 71' W line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.408903 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.857593 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 1065.0 **LOG TYPE:**
SOURCE: SUMMERF GC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
114.0	CARBONDALE	HERRIN	COAL	1.8	420.0	

MAPID: 00500067000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** SW SW SW SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.408313 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.843742 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 503.8 **LOGGED (FT.):** 1060.0 **LOG TYPE:**
SOURCE: SUMMERF GC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
103.8	CARBONDALE	HERRIN	COAL	2.0	400.0	CORRELATION UNCERTAIN
33.8	CARBONDALE		COAL	3.0	470.0	C71 CORRELATED AS #5; PROB. #4

MAPID: 00500481000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.403144 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.849663 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.5	MODESTO	PIASA	LIMESTONE	4.0	394.5	
115.5	MODESTO		UNCLASSIFIED	4.5	398.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
111.0	CARBONDALE		UNCLASSIFIED	14.5	403.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	417.5	
88.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	426.0	
86.5	CARBONDALE		UNCLASSIFIED	1.5	427.5	SHALE ABOVE BRERETON LIMESTONE
85.0	CARBONDALE	BRERETON	LIMESTONE	1.5	429.0	
83.5	CARBONDALE	ANNA	BLACK SHALE	3.5	430.5	
80.0	CARBONDALE	HERRIN	COAL	4.0	434.0	

MAPID: 00500587000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** 664' N line, 668' W line of NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.39738 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.856013 **DATE COLLECTED:** 9 / 0 / 1948

SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Electric Log

SOURCE: SHELL OIL COMPANY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
144.1	MODESTO	PIASA	LIMESTONE	4.0	364.9	
140.1	MODESTO		UNCLASSIFIED	4.0	368.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
136.1	CARBONDALE		UNCLASSIFIED	17.0	372.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
119.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	389.9	
111.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	397.9	
108.8	CARBONDALE		UNCLASSIFIED	2.3	400.2	SHALE ABOVE BRERETON LIMESTONE
106.5	CARBONDALE	BRERETON	LIMESTONE	1.5	402.5	
105.0	CARBONDALE	ANNA	BLACK SHALE	2.0	404.0	
103.0	CARBONDALE	HERRIN	COAL	5.0	406.0	

MAPID: 00500442000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** 2310' S line, 2310' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.419632 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.849568 **DATE COLLECTED:** 6 / 0 / 1956

SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 445.5 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	MODESTO	PIASA	LIMESTONE	6.5	398.0	
118.5	MODESTO		UNCLASSIFIED	4.5	404.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
114.0	CARBONDALE		UNCLASSIFIED	17.0	409.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
97.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	426.0	
88.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	434.5	
86.5	CARBONDALE		UNCLASSIFIED	2.0	436.5	SHALE ABOVE BRERETON LIMESTONE
84.5	CARBONDALE	BRERETON	LIMESTONE	1.0	438.5	
83.5	CARBONDALE	ANNA	BLACK SHALE	1.5	439.5	
82.0	CARBONDALE	HERRIN	COAL	4.5	441.0	

MAPID: 00500442000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** 2310' S line, 2310' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.419632 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.849568 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 447.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	MODESTO	PIASA	LIMESTONE	7.0	400.0	
116.0	MODESTO		SHALE	11.0	407.0	
105.0	CARBONDALE	DANVILLE	COAL	2.0	418.0	
103.0	CARBONDALE		SHALE	6.0	420.0	
97.0	CARBONDALE	LAWSON	SHALE	5.0	426.0	
92.0	CARBONDALE	BRERETON	LIMESTONE	4.5	431.0	
87.5	CARBONDALE	ANNA	SHALE	4.0	435.5	
82.0	CARBONDALE	HERRIN	COAL	6.5	441.0	

MAPID: 00523026000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** SW SW SW SW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.427069 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.843579 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 430.2 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY IG-766 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.2	424.0	

MAPID: 00500068000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** 300' S line, 2360' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.438094 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.843793 **DATE COLLECTED:** 0 / 0 / 1913

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 436.0 **LOG TYPE:** Drillers Log

SOURCE: SULLIVAN MACHINERY CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
515.0			UNCONSOLIDATED	84.0	0.0	
431.0			ROCK	70.5	84.0	
360.5			COAL	1.0	154.5	
359.5			ROCK	99.3	155.5	
260.2			COAL	1.3	254.8	
258.9			ROCK	146.0	256.1	
112.9			COAL	1.2	402.1	
111.7			UNDERCLAY	1.8	403.3	
110.0			LIMESTONE	0.8	405.0	
109.2			SHALE	5.2	405.8	
104.0			LIMESTONE	7.3	411.0	
96.7			SHALE	4.5	418.3	
92.2			LIMESTONE	1.2	422.8	
91.1			COAL	0.2	423.9	
90.9			LIMESTONE	1.5	424.1	
89.4			BLACK SHALE	1.9	425.6	
87.5	CARBONDALE	HERRIN	COAL	6.3	427.5	
81.2			ROCK	2.2	433.8	

MAPID: 00500068000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** 300' S line, 2360' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.438094 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.843793 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 434.3 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.7	MODESTO	PIASA	LIMESTONE	1.8	383.3	
131.9	MODESTO		VARRIGATED SHALE	17.5	385.1	
114.4	CARBONDALE	DANVILLE	COAL	1.2	402.6	
113.3	CARBONDALE		CLAYSTONE	1.8	403.7	
111.5	CARBONDALE	GALUM	LIMESTONE	0.8	405.5	
110.7	CARBONDALE		CALCAREOUS SHALE	5.2	406.3	
105.5	CARBONDALE	BANKSTON FORK	LIMESTONE	7.3	411.5	LOWER BENCH
98.3	CARBONDALE	LAWSON	DARK GRAY SHALE	4.5	418.7	
93.8	CARBONDALE	CONANT	LIMESTONE	1.2	423.2	
92.6	CARBONDALE	JAMESTOWN	COAL	0.2	424.4	
92.4	CARBONDALE	BRERETON	LIMESTONE	1.5	424.6	
90.9	CARBONDALE	ANNA	BLACK SHALE	1.9	426.1	
89.0	CARBONDALE	HERRIN	COAL	6.3	428.0	

MAPID: 00500068000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** 300' S line, 2360' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.438094 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.843793 **DATE COLLECTED:** 0 / 0 / 1913

SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 433.3 **LOG TYPE:** Drillers Log

SOURCE: SULLIVAN MACHINE CO **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
132.8	MODESTO	PIASA	LIMESTONE	1.8	382.2	
131.0	MODESTO		UNCLASSIFIED	6.0	384.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
125.0	CARBONDALE		UNCLASSIFIED	20.4	390.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
104.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.3	410.4	
97.3	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	417.7	
95.0	CARBONDALE		UNCLASSIFIED	2.3	420.0	SHALE ABOVE BRERETON LIMESTONE
92.7	CARBONDALE	BRERETON	LIMESTONE	2.8	422.3	
89.9	CARBONDALE	ANNA	BLACK SHALE	1.9	425.1	
88.0	CARBONDALE	HERRIN	COAL	6.3	427.0	

MAPID: 00500068000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** 300' S line, 2360' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.438094 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.843793 **DATE COLLECTED:** 0 / 0 / 1913

SURFACE ELEVATION (FT.): 513.9 **LOGGED (FT.):** 436.0 **LOG TYPE:**

SOURCE: SULLIVN MA0002 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
85.9	CARBONDALE	HERRIN	COAL	6.3	428.0	

MAPID: 00500069000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** SW NE SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.450006 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.847393 **DATE COLLECTED:** 0 / 0 / 1911

SURFACE ELEVATION (FT.): 547.8 **LOGGED (FT.):** 2391.0 **LOG TYPE:**

SOURCE: OHIO OIL **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
72.8	CARBONDALE	HERRIN	COAL	2.5	475.0	

MAPID: 00500070000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1400' S line, 50' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.465042 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.846603 **DATE COLLECTED:** 0 / 0 / 1913

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 650.0 **LOG TYPE:** Drillers Log

SOURCE: SULLIVAN MACHINE CO **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
534.0			UNCONSOLIDATED	110.5	0.0	
423.5			ROCK	60.5	110.5	
363.0			COAL	1.2	171.0	
361.8			ROCK	246.2	172.2	
115.7			SHALE	5.0	418.3	
110.7			LIMESTONE	5.8	423.3	
104.8			SHALE	2.8	429.2	
102.0			BLACK SHALE	4.5	432.0	
97.5	CARBONDALE	HERRIN	COAL	6.3	436.5	
91.2			ROCK	55.3	442.8	
35.9			COAL	1.4	498.1	
34.5			ROCK	57.9	499.5	
-23.4			COAL	2.9	557.4	
-26.3			ROCK	40.8	560.3	
-67.1			COAL	2.2	601.1	
-69.2			ROCK	11.8	603.2	
-81.0			COAL	0.9	615.0	SPLIT OF COAL BELOW
-81.9			SHALE	0.6	615.9	
-82.5			COAL	0.7	616.5	
-83.2			ROCK	32.8	617.2	

MAPID: 00500070000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1400' S line, 50' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.465042 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.846603 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 442.3 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
108.2	CARBONDALE		CLAYSTONE & SHALE	3.0	417.8	
105.2	CARBONDALE		CALCAREOUS SHALE	2.0	420.8	
103.2	CARBONDALE	BANKSTON FORK	LIMESTONE	5.8	422.8	LOWER BENCH
97.3	CARBONDALE	LAWSON	DARK GRAY SHALE	2.8	428.7	
94.5	CARBONDALE	ANNA	BLACK SHALE	4.5	431.5	
90.0	CARBONDALE	HERRIN	COAL	6.3	436.0	

MAPID: 00500070000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1400' S line, 50' W line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.465042 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.846603 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: SULLIVAN MACHINE CO **WELL TYPE:** Coal Test
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE		UNCLASSIFIED	5.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.8		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.4		
-	CARBONDALE		UNCLASSIFIED	1.4		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.3		
-	CARBONDALE	ANNA	BLACK SHALE	2.3		
-	CARBONDALE	HERRIN	COAL	6.3		ELEVATION OF HERRIN = 90

MAPID: 00500070000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1400' S line, 50' W line
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.465042 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.846603 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 526.4 **LOGGED (FT.):** 650.0 **LOG TYPE:**
SOURCE: SULLIVN MA0001 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
89.4	CARBONDALE	HERRIN	COAL	6.3	437.0	

MAPID: 00523027000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.447845 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.856549 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 502.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-22-A **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.5	496.0	

MAPID: 00500702000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 580' N line, 763' E line of NW SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.482954 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.848217 **DATE COLLECTED:** 11 / 0 / 1947
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log
SOURCE: WILSON, ARNOLD **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
92.0	CARBONDALE	BRERETON	LIMESTONE	7.0	392.0	
85.0	CARBONDALE	HERRIN	COAL	6.0	399.0	

MAPID: 00500579000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.473837 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.834425 **DATE COLLECTED:** 8 / 0 / 1948
SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL CO., THE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00500577000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.459121 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.834584 **DATE COLLECTED:** 6 / 0 / 1949
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: DORAN PAUL EST **WELL TYPE:** Dry Hole
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	7.0		
-	MODESTO		UNCLASSIFIED	7.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	23.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.5		
-	CARBONDALE	ANNA	BLACK SHALE	2.5		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 95

MAPID: 00500580000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 990' N line, 330' W line of NE SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.449695 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.83283 **DATE COLLECTED:** 5 / 0 / 1950

SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 436.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.1	MODESTO	PIASA	LIMESTONE	2.0	384.9	
153.1	MODESTO		UNCLASSIFIED	8.5	386.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
144.6	CARBONDALE		UNCLASSIFIED	17.5	395.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	412.9	
117.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	422.4	
116.3	CARBONDALE		UNCLASSIFIED	1.3	423.7	SHALE ABOVE BRERETON LIMESTONE
115.0	CARBONDALE	BRERETON	LIMESTONE	2.0	425.0	
113.0	CARBONDALE	ANNA	BLACK SHALE	4.0	427.0	
109.0	CARBONDALE	HERRIN	COAL	5.0	431.0	

MAPID: 00501041000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.44978 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.836471 **DATE COLLECTED:** 10 / 0 / 1952

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
167.1	MODESTO	PIASA	LIMESTONE	5.0	382.9	
162.1	MODESTO		UNCLASSIFIED	9.0	387.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
153.1	CARBONDALE	DANVILLE	COAL	1.0	396.9	
152.1	CARBONDALE		UNCLASSIFIED	17.0	397.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
135.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	414.9	
125.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	424.9	
122.8	CARBONDALE		UNCLASSIFIED	2.3	427.2	SHALE ABOVE BRERETON LIMESTONE
120.5	CARBONDALE	BRERETON	LIMESTONE	1.5	429.5	
119.0	CARBONDALE	ANNA	BLACK SHALE	2.0	431.0	
117.0	CARBONDALE	HERRIN	COAL	5.0	433.0	

MAPID: 00523028000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** SW SE NW SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.45261 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.832362 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 439.0 **LOG TYPE:** Company map

SOURCE: CARTER OIL COMPANY W-11 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.0	432.0	

MAPID: 00500387000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 990' S line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.374766 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.831511 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 464.0 **LOG TYPE:** Electric Log

SOURCE: MCCLURE, W. W. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
111.0	MODESTO	PIASA	LIMESTONE	3.5	423.0	
107.5	MODESTO		UNCLASSIFIED	3.0	426.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.5	CARBONDALE	DANVILLE	COAL	1.5	429.5	
103.0	CARBONDALE		UNCLASSIFIED	14.0	431.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
89.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	445.0	
80.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	453.5	
78.5	CARBONDALE		UNCLASSIFIED	2.0	455.5	SHALE ABOVE BRERETON LIMESTONE
76.5	CARBONDALE	BRERETON	LIMESTONE	0.5	457.5	
76.0	CARBONDALE	ANNA	BLACK SHALE	1.0	458.0	
75.0	CARBONDALE	HERRIN	COAL	5.0	459.0	

MAPID: 00500387000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 990' S line, 990' E line

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.374766 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.831511 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 534.0 **LOGGED (FT.):** 464.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
111.0	MODESTO	PIASA	LIMESTONE	3.5	423.0	
107.5	MODESTO		SHALE	5.0	426.5	
102.5	CARBONDALE		SHALE	4.0	431.5	
98.5	CARBONDALE		SHALE	6.0	435.5	
92.5	CARBONDALE	LAWSON	SHALE	8.0	441.5	
84.5	CARBONDALE	BRERETON	LIMESTONE	4.0	449.5	
80.5	CARBONDALE	ANNA	LIMESTONE	5.5	453.5	
75.0	CARBONDALE	HERRIN	COAL	5.0	459.0	

MAPID: 00500578000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE

QUADRANGLE: PLEASANT MOUND **LONGITUDE:** -89.372448 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.83697 **DATE COLLECTED:** 12 / 0 / 1951

SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 471.0 **LOG TYPE:** Electric Log

SOURCE: EVERHART J WILLIAM **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
111.5	MODESTO	PIASA	LIMESTONE	5.5	425.5	
106.0	MODESTO		UNCLASSIFIED	4.0	431.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
102.0	CARBONDALE		UNCLASSIFIED	20.0	435.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	455.0	
73.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	463.5	
72.0	CARBONDALE		UNCLASSIFIED	1.5	465.0	SHALE ABOVE BRERETON LIMESTONE
70.5	CARBONDALE	ANNA	BLACK SHALE	0.5	466.5	
70.0	CARBONDALE	HERRIN	COAL	4.0	467.0	

MAPID: 00523029000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.388896 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.842436 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 454.9 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY 5-781 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.9	450.0	

MAPID: 00500608000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.491915 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.905936 **DATE COLLECTED:** 2 / 0 / 1954
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00523032000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 1 **QUARTERS/FOOTAGES:** NW NW NE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.490173 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.908225 **DATE COLLECTED:** 6 / 12 / 1981
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 430.8 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-530 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
153.1	CARBONDALE	HERRIN	COAL	3.4	404.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.8		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523033000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 2 **QUARTERS/FOOTAGES:** 610' S line, 651' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.521067 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.903712 **DATE COLLECTED:** 2 / 6 / 1967
SURFACE ELEVATION (FT.): 593.3 **LOGGED (FT.):** 519.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY W-26 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
88.3	CARBONDALE	HERRIN	COAL	6.6	505.0	CLEAN COAL-SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500674000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1300' S line, 2180' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.53436 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.905959 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 384.2 **LOG TYPE:** Survey Core Study

SOURCE: D.C. DONAN, JR. 5BB **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.9	MODESTO	PIASA	LIMESTONE	4.0	340.1	
144.9	MODESTO		GRAY SHALE	6.3	344.1	
138.7	CARBONDALE		GRAY SHALE	2.8	350.3	
135.9	CARBONDALE		BLACK SHALE	5.0	353.1	
130.9	CARBONDALE	BANKSTON FORK	LIMESTONE	1.7	358.1	LOWER BENCH
129.2	CARBONDALE	LAWSON	CLAYSTONE & SHALE	7.2	359.8	
122.1	CARBONDALE	BRERETON	LIMESTONE	6.3	366.9	
115.7	CARBONDALE	ANNA	BLACK SHALE	3.8	373.3	
112.0	CARBONDALE	HERRIN	COAL	7.2	377.0	

MAPID: 00500674000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1300' S line, 2180' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.53436 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.905959 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 384.2 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 5BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.9	MODESTO	PIASA	LIMESTONE	4.0	339.1	
145.9	MODESTO		UNCLASSIFIED	3.2	343.1	
142.7	CARBONDALE		UNCLASSIFIED	10.8	346.3	
131.9	CARBONDALE	BANKSTON FORK	LIMESTONE	7.2	357.1	
124.7	CARBONDALE	ANVIL ROCK	SANDSTONE	0.8	364.3	
123.9	CARBONDALE		SHALE	0.8	365.1	
123.1	CARBONDALE	BRERETON	LIMESTONE	6.3	365.9	
116.8	CARBONDALE	ANNA	BLACK SHALE	4.8	372.2	
112.0	CARBONDALE	HERRIN	COAL	7.2	377.0	

MAPID: 00500674000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1300' S line, 2180' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.53436 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.905959 **DATE COLLECTED:** 5 / 6 / 1957

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 533.0 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 5BB **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
363.4			COAL	0.5	125.6	
112.0	CARBONDALE	HERRIN	COAL	7.2	377.0	
74.2	CARBONDALE	SPRINGFIELD	COAL	0.8	414.8	
14.8	CARBONDALE	SURVANT	COAL	2.8	474.2	
11.1			COAL	0.1	477.9	
-35.3	CARBONDALE	COLCHESTER	COAL	2.3	524.3	

MAPID: 00500674000C **VERSION:** 4 **PROJECT:** NCRDS99

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 1300' S line, 2180' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.53436 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.905959 **DATE COLLECTED:** 5 / 6 / 1957

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 533.0 **LOG TYPE:** Drillers Log

SOURCE: DONAN 5-BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
489.0	PLEISTOCENE		UNCONSOLIDATED	60.5	0.0	
428.5	BOND		SHALE	1.0	60.5	
427.5	BOND	CARTHAGE	LIMESTONE	6.5	61.5	
421.0	MODESTO		SHALE	0.5	68.0	
420.5	MODESTO		BLACK SHALE	0.5	68.5	
420.0	MODESTO		SANDSTONE	3.3	69.0	
416.7	MODESTO		BLACK SHALE	0.1	72.3	
416.7	MODESTO		SHALE	10.7	72.3	
406.0	MODESTO		LIMESTONE	0.3	83.0	
405.7	MODESTO		SHALE	42.3	83.3	
363.4	MODESTO		COAL	0.4	125.6	
363.0	MODESTO		SHALE	8.8	126.0	
354.2	MODESTO		SANDSTONE	10.3	134.8	
344.0	MODESTO		SANDY SHALE	17.0	145.0	
327.0	MODESTO		BLACK SHALE	3.0	162.0	
324.0	MODESTO		UNDERCLAY	0.3	165.0	
323.7	MODESTO		SHALE	7.3	165.3	
316.5	MODESTO		COAL	0.0	172.5	
316.5	MODESTO		SHALE	5.5	172.5	
311.0	MODESTO		SANDSTONE	46.5	178.0	
264.5	MODESTO		BLACK SHALE	0.0	224.5	
264.5	MODESTO		SANDSTONE	13.5	224.5	
251.0	MODESTO		SANDSTONE	34.0	238.0	COAL STREAKS
217.0	MODESTO		SHALE	0.5	272.0	
216.5	MODESTO		SANDSTONE	10.0	272.5	COAL STREAKS
206.5	MODESTO		CONGLOMERATE	2.5	282.5	
204.0	MODESTO		SANDSTONE	13.0	285.0	
191.0	MODESTO		SHALE	0.3	298.0	
190.7	MODESTO		SANDSTONE	15.8	298.3	COAL STREAKS
175.0	MODESTO		BLACK SHALE	0.3	314.0	
174.7	MODESTO		LIMESTONE	0.2	314.3	
174.5	MODESTO		BLACK SHALE	2.2	314.5	
172.3	MODESTO		SHALE	7.3	316.7	
165.0	MODESTO		BLACK SHALE	0.7	324.0	
164.3	MODESTO		SANDSTONE	14.3	324.7	
150.0	MODESTO	PIASA	LIMESTONE	4.0	339.0	
146.0			SHALE	9.0	343.0	
137.0			BLACK SHALE	5.0	352.0	
132.0	CARBONDALE	BRERETON	LIMESTONE	8.8	357.0	WITH SHALE

123.2	CARBONDALE	BRERETON	LIMESTONE	6.3	365.8	
116.8	CARBONDALE	ANNA	BLACK SHALE	4.8	372.2	
112.1	CARBONDALE	HERRIN	COAL	7.2	376.9	WITH PYRITE
104.8	CARBONDALE		UNDERCLAY	1.0	384.2	
103.8	CARBONDALE		SHALE	7.5	385.2	
96.3	CARBONDALE		CLAYSTONE & SILTSTONE	2.7	392.7	
93.7	CARBONDALE		SHALE	18.4	395.3	
75.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	413.8	
74.2	CARBONDALE	SPRINGFIELD	COAL	0.3	414.8	
73.9	CARBONDALE	SPRINGFIELD	BLACK SHALE	0.4	415.1	
73.5	CARBONDALE	SPRINGFIELD	COAL	0.1	415.5	
73.4	CARBONDALE		BLACK SHALE	1.2	415.6	
72.2	CARBONDALE		UNDERCLAY	4.3	416.8	
68.0	CARBONDALE		LIMESTONE	1.6	421.0	
66.4	CARBONDALE		SHALE	14.6	422.6	
51.8	CARBONDALE		SANDSTONE	2.9	437.2	
48.9	CARBONDALE		SHALE	33.0	440.1	
15.9	CARBONDALE		BLACK SHALE	0.8	473.1	
15.1	CARBONDALE		LIMESTONE	0.3	473.9	BLACK, SHALEY
14.8	CARBONDALE	SURVANT	COAL	2.7	474.2	
12.0	CARBONDALE		NO RECORD	0.6	477.0	CORE LOSS
11.5	CARBONDALE		BLACK SHALE	0.4	477.5	
11.1	CARBONDALE		COAL	0.1	477.9	
11.0	CARBONDALE		BLACK SHALE	5.6	478.0	
5.4	CARBONDALE		SANDSTONE	3.3	483.6	BLACK
2.1	CARBONDALE		BLACK SHALE	0.7	486.9	
1.4	CARBONDALE		SANDSTONE	0.9	487.6	
0.5	CARBONDALE		BLACK SHALE	4.3	488.5	
-3.8	CARBONDALE		SANDSTONE	1.2	492.8	
-5.0	CARBONDALE		BLACK SHALE	24.7	494.0	
-29.7	CARBONDALE		LIMESTONE	0.3	518.7	
-30.0	CARBONDALE		BLACK SHALE	0.9	519.0	
-30.9	CARBONDALE		LIMESTONE	0.1	519.9	
-31.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	4.3	520.0	
-35.3	CARBONDALE	COLCHESTER	COAL	2.3	524.3	
-37.7			UNDERCLAY	6.0	526.7	
-43.7			NO RECORD	0.3	532.7	

MAPID: 00523034000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 220' S line, 660' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.539697 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.903116 **DATE COLLECTED:** 12 / 12 / 1969
SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 377.2 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-320 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
115.0	CARBONDALE	HERRIN	COAL	6.9	370.0	CLEAN COAL-SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500043000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE/c SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.558491 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.904862 **DATE COLLECTED:** 0 / 0 / 1911
SURFACE ELEVATION (FT.): 500.2 **LOGGED (FT.):** 2057.0 **LOG TYPE:**
SOURCE: PRODUCEROC0001 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
110.2	CARBONDALE	HERRIN	COAL	8.0	390.0	

MAPID: 00500043000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE/c SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.558491 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.904862 **DATE COLLECTED:** 1 / 0 / 1911
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 398.0 **LOG TYPE:** Drillers Log
SOURCE: PRODUCERS OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
110.0	CARBONDALE	HERRIN	COAL	8.0	390.0	

MAPID: 00500044000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552624 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.911236 **DATE COLLECTED:** 0 / 0 / 1911
SURFACE ELEVATION (FT.): 518.7 **LOGGED (FT.):** 2019.0 **LOG TYPE:**
SOURCE: PRODUCEROC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
122.7	CARBONDALE	HERRIN	COAL	6.0	396.0	

MAPID: 00500044000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552624 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.911236 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 519.0 **LOGGED (FT.):** 402.0 **LOG TYPE:** Drillers Log
SOURCE: PRODUCERS OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	CARBONDALE	HERRIN	COAL	6.0	396.0	

MAPID: 00500435000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 740' W line of SE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.55353 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.903774 **DATE COLLECTED:** 4 / 0 / 1956
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 358.0 **LOG TYPE:** Electric Log
SOURCE: MONKEN, LELAND **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
179.0	MODESTO	PIASA	LIMESTONE	3.0	309.0	
176.0	MODESTO		UNCLASSIFIED	6.0	312.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
170.0	CARBONDALE		UNCLASSIFIED	19.0	318.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
151.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	337.0	
143.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	345.0	
142.0	CARBONDALE		UNCLASSIFIED	1.0	346.0	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	3.0	347.0	
138.0	CARBONDALE	ANNA	BLACK SHALE	3.0	350.0	
135.0	CARBONDALE	HERRIN	COAL	5.0	353.0	

MAPID: 00523035000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** 1056' S line, 1188' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.556633 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.905859 **DATE COLLECTED:** 7 / 30 / 1970
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY S-9 **WELL TYPE:** Coal Test
COMMENT: LOCATION NOTE SAYS "AIR PHOTO"(?)

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.4	CARBONDALE	HERRIN	COAL	5.8	352.6	CORE-NO PARTINGS INFO AVAILABLE
97.4	CARBONDALE	HOUCHIN CREEK	COAL	1.5	392.6	TOP/THICKNESS FROM DRILLER'S LOG

MAPID: 00523036000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** 102' S line, 96' W line of SW SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.560514 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.903323 **DATE COLLECTED:** 7 / 31 / 1969
SURFACE ELEVATION (FT.): 553.0 **LOGGED (FT.):** 429.3 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-250 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
138.2	CARBONDALE	HERRIN	COAL	6.5	414.8	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523037000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** 180' N line, 100' W line of NW SE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.546455 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.913351 **DATE COLLECTED:** 8 / 18 / 1969
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 404.6 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY WF-259 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.6	CARBONDALE	HERRIN	COAL	7.3	373.4	E-LOG & DRILLER'S LOG THICKNESS

MAPID: 00523038000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** 542' N line, 300' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559688 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.9165 **DATE COLLECTED:** 10 / 1 / 1969

SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 373.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY WF-287 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
129.0	CARBONDALE	HERRIN	COAL	7.0	356.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500673000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 230' S line, 200' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561557 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.903706 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 452.9 **LOG TYPE:** Survey Core Study

SOURCE: D.C. DONAN, JR. 4BB **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
119.6	CARBONDALE		CLAYSTONE & SHALE	3.5	430.4	
116.1	CARBONDALE	LAWSON	MOTTLED SHALE	6.0	433.9	
110.1	CARBONDALE	JAMESTOWN	COAL	1.8	439.9	
108.2	CARBONDALE		GRAY SHALE	1.3	441.8	
107.0	CARBONDALE	BRERETON	LIMESTONE	4.0	443.0	
103.0	CARBONDALE	HERRIN	COAL	5.9	447.0	

MAPID: 00500673000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 230' S line, 200' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561557 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.903706 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 452.8 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 4BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.5	CARBONDALE	DANVILLE	COAL	0.8	416.5	
132.7	CARBONDALE		UNCLASSIFIED	9.3	417.3	
123.4	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	426.6	
114.4	CARBONDALE	ANVIL ROCK	SANDSTONE	3.0	435.6	
111.4	CARBONDALE	CONANT	LIMESTONE	1.0	438.6	
110.4	CARBONDALE	JAMESTOWN	COAL	1.8	439.6	
108.6	CARBONDALE		SHALE	1.3	441.4	
107.3	CARBONDALE	BRERETON	LIMESTONE	4.0	442.7	
103.3	CARBONDALE	ANNA	BLACK SHALE	0.3	446.7	
103.0	CARBONDALE	HERRIN	COAL	5.8	447.0	

MAPID: 00500673000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 230' S line, 200' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561557 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.903706 **DATE COLLECTED:** 6 / 0 / 1957

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 877.0 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 4BB **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
398.0	MODESTO	MACOUPIN	LIMESTONE	0.1	152.0	
230.0			COAL	1.3	320.0	
217.7			COAL	0.3	332.3	
109.9	SHELBURN	JAMESTOWN	COAL	1.8	440.1	
102.5	CARBONDALE	HERRIN	COAL	5.9	447.5	
21.9	CARBONDALE	SURVANT	COAL	3.3	528.1	
-22.8	CARBONDALE	COLCHESTER	COAL	1.5	572.8	
-63.2			COAL	2.1	613.2	

MAPID: 00500673000C **VERSION:** 4 **PROJECT:** NCRDS99

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 230' S line, 200' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561557 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.903706 **DATE COLLECTED:** 6 / 0 / 1957

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 877.0 **LOG TYPE:** Multiple log types

SOURCE: DONAN 4-BB **WELL TYPE:** Coal Test

COMMENT: CORE WAS DISTURBED;TOP 192'DECSR.EVERY10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
550.0			NO RECORD	102.0	0.0	
448.0	BOND		SHALE	10.0	102.0	
438.0	BOND	CARTHAGE	LIMESTONE	6.0	112.0	
432.0	MODESTO		BLACK SHALE	-	118.0	CORE DISTURBED TO 192'
-	MODESTO		SHALE	-		
418.0	MODESTO		SILTSTONE	20.0	132.0	WITH SHALE
398.0	MODESTO		SHALE	-	152.0	
-	MODESTO	MACOUPIN	COAL	1.0		
388.0	MODESTO		SHALE	-	162.0	
-	MODESTO		SILTSTONE	-		
-	MODESTO		SHALE	-		
354.7	MODESTO		SHALE	7.8	195.3	CARBONACEOUS
346.8	MODESTO		UNDERCLAY	2.0	203.2	
344.8	MODESTO		SHALE	6.8	205.2	
338.0	MODESTO		SILTSTONE	12.7	212.0	CORE DISTURBED
325.3	MODESTO		SHALE	7.3	224.7	CARBONACEOUS WITH SILTSTONE
318.0	MODESTO		SILTSTONE	20.0	232.0	WITH SHALE; CORE DISTURBED
298.0	MODESTO		SANDSTONE	68.0	252.0	THIN CARBONACEOUS LAYERS
230.0	MODESTO	CHAPEL	COAL	1.3	320.0	DRIFT COAL
228.7	MODESTO		CONGLOMERATE	0.5	321.3	CLAYSTONE
228.2	MODESTO		SANDSTONE	10.2	321.8	
218.0	MODESTO		CONGLOMERATE	0.3	332.0	
217.7	MODESTO		SANDSTONE	0.3	332.3	LENTICULAR
217.4	MODESTO		SANDSTONE	10.9	332.6	CORE DISTURBED
206.5	MODESTO		SHALE	47.5	343.5	
159.0	MODESTO		LIMESTONE	0.3	391.0	BLACK
158.7	MODESTO		CLAYSTONE & SILTSTONE	7.4	391.3	
151.3	MODESTO		SILTSTONE	19.2	398.7	
132.1	MODESTO		CONGLOMERATE	4.2	417.9	
127.9	MODESTO		CLAYSTONE & SILTSTONE	0.2	422.1	
127.7	MODESTO	PIASA	LIMESTONE	2.4	422.3	
125.3	MODESTO		CLAYSTONE & SILTSTONE	4.2	424.7	
121.2	CARBONDALE		BLACK SHALE	0.1	428.8	
121.1	CARBONDALE		NO RECORD	3.0	428.9	CORE MISSING
118.1	CARBONDALE		LIMESTONE	0.5	431.9	
117.6	CARBONDALE		CLAYSTONE & SILTSTONE	2.1	432.4	
115.5	CARBONDALE		SHALE	5.6	434.5	
109.9	CARBONDALE	JAMESTOWN	COAL	1.8	440.1	

108.1	CARBONDALE		UNDERCLAY	1.3	441.9	
106.8	CARBONDALE	BRERETON	LIMESTONE	4.0	443.2	
102.8	CARBONDALE		CLAYSTONE & SILTSTONE	0.3	447.2	CARBONACEOUS
102.5	CARBONDALE	HERRIN	COAL	5.9	447.5	
96.7	CARBONDALE		UNDERCLAY	13.0	453.3	
83.7	CARBONDALE		SILTSTONE	38.7	466.3	
46.0	CARBONDALE		NO RECORD	1.0	504.0	CORE MISSING
45.0	CARBONDALE		SILTSTONE	15.5	505.0	
29.5	CARBONDALE		SHALE	2.5	520.5	
27.0	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	523.0	
26.3	CARBONDALE		SHALE	2.1	523.7	
24.2	CARBONDALE		BLACK SHALE	1.9	525.8	
22.3	CARBONDALE	SURVANT	COAL	3.1	527.7	
19.2	CARBONDALE		UNDERCLAY	1.3	530.8	
18.0	CARBONDALE		SHALE	32.3	532.0	
-14.3	CARBONDALE		LIMESTONE	0.3	564.3	
-14.5	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	564.5	
-15.3	CARBONDALE		SHALE	3.9	565.3	
-19.2	CARBONDALE		NO RECORD	0.7	569.2	
-19.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	569.8	
-22.8	CARBONDALE	COLCHESTER	COAL	1.7	572.8	
-24.5			UNDERCLAY	1.5	574.5	
-26.0			LIMESTONE	1.7	576.0	BLACK
-27.7			UNDERCLAY	3.1	577.7	
-30.8			BLACK SHALE	0.3	580.8	
-31.0			BLACK SHALE	4.0	581.0	WITH COAL SEAMS
-35.0			LIMESTONE	1.4	585.0	
-36.4			SHALE/COAL	1.7	586.4	
-38.1			UNDERCLAY	0.2	588.1	
-38.3			NO RECORD	0.7	588.3	
-39.0			CLAYSTONE & SILTSTONE	0.3	589.0	
-39.3			SHALE	0.4	589.3	
-39.8			CLAYSTONE & SILTSTONE	0.7	589.8	
-40.4			SHALE	0.7	590.4	
-41.1			CLAYSTONE & SILTSTONE	0.9	591.1	
-42.0			LIMESTONE	0.3	592.0	
-42.3			SHALE	4.2	592.3	COAL STREAKS
-46.4			CLAYSTONE & SILTSTONE	2.0	596.4	
-48.4			SHALE	14.8	598.4	
-63.2			COAL	2.1	613.2	
-65.3			SHALY SANDSTONE	13.8	615.3	
-79.0			SHALE	3.6	629.0	
-82.6			BLACK SHALE	13.1	632.6	
-95.7			SHALE	32.3	645.7	
-127.9			SHALY SANDSTONE	53.5	677.9	
-181.4			SHALE	1.0	731.4	
-182.4			SHALY SANDSTONE	25.6	732.4	

-208.0	SANDY SHALE	20.0	758.0
-228.0	SANDSTONE	56.0	778.0
-284.0	SANDY SHALE	4.5	834.0
-288.5	SHALY SANDSTONE	15.5	838.5
-304.0	CLAYSTONE & SILTSTONE	1.0	854.0
-305.0	SHALY SANDSTONE	22.0	855.0

MAPID: 00523039000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 990' S line, 957' E line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.564212 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.905877 **DATE COLLECTED:** 7 / 28 / 1970
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Drillers Log
SOURCE: CARTER OIL COMPANY S-6 **WELL TYPE:** Coal Test
COMMENT: LOCATION NOTE SAYS "PHOTO"

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
116.2	CARBONDALE	HERRIN	COAL	7.5	423.8	
77.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	463.0	

MAPID: 00523040000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 455' S line, 52' E line of NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.56097 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.911801 **DATE COLLECTED:** 7 / 28 / 1970
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY S-8 **WELL TYPE:** Coal Test
COMMENT: SAMPLES, DRILLER'S LOG, E-LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
184.8			COAL	7.1	303.2	THCK FROM 1"=20' E-LOG, COMP THINKS #6
124.5	CARBONDALE	HERRIN	COAL	7.3	363.5	THICKNESS FROM 1"=20' E-LOG

MAPID: 00523041000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 1960' S line, 565' E line of SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.572246 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.90878 **DATE COLLECTED:** 4 / 23 / 1969
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 448.3 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-212 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.1	CARBONDALE	HERRIN	COAL	6.4	429.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523042000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 672' N line, 684' E line of SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.563225 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.908749 **DATE COLLECTED:** 10 / 29 / 1969
SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 370.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY WF-298 **WELL TYPE:** Coal Test
COMMENT: COAL 75' +/- HIGH, FAULTED,SEE WF298-A&B

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
197.0	CARBONDALE	HERRIN	COAL	-	307.0	TOP MAY BE 315.5, THCK 7.5-7.75 -SEE LOG

MAPID: 00523043000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 726' N line, 864' E line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.563804 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.916103 **DATE COLLECTED:** 10 / 29 / 1969
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 398.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-298-A **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
121.0	CARBONDALE	HERRIN	COAL	6.9	381.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523044000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 5 **QUARTERS/FOOTAGES:** 652' N line, 684' E line of SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.563225 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.908804 **DATE COLLECTED:** 11 / 14 / 1969
SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY WF-298-B **WELL TYPE:** Coal Test
COMMENT: REPEATED COAL-REVERSE FAULT ESTD AT 340

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
197.0			COAL	7.8	307.0	COMP THINKS #6- E-LOGS, SAMPLES
130.0	CARBONDALE	HERRIN	COAL	7.6	374.0	TOTAL COAL THICKNESS- E-LOGS, SAMPLES

MAPID: 00500671000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 3960' S line, 3630' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.592557 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.914897 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 371.7 **LOG TYPE:** Survey Core Study

SOURCE: D.C. DONAN, JR. 2BB **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	6.3	320.0	
184.8	MODESTO		SHALE	9.9	326.2	
174.8	CARBONDALE	DANVILLE	COAL	0.8	336.2	
174.1	CARBONDALE		GRAY SHALE	8.8	336.9	
165.3	CARBONDALE		CALCAREOUS SHALE	2.3	345.7	
163.0	CARBONDALE	BANKSTON FORK	LIMESTONE	0.3	348.0	UPPER BENCH
162.8	CARBONDALE	BANKSTON FORK	DARK GRAY SHALE	5.6	348.2	SHALE PARTING
157.2	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	353.8	LOWER BENCH
154.7	CARBONDALE	LAWSON	DARK GRAY SHALE	2.3	356.3	
152.4	CARBONDALE	BRERETON	LIMESTONE	4.4	358.6	
148.0	CARBONDALE	ANNA	BLACK SHALE	1.0	363.0	
147.0	CARBONDALE	HERRIN	COAL WITH SHALE PARTINGS	7.7	364.0	

MAPID: 00500671000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 3960' S line, 3630' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.592557 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.914897 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 371.7 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 2BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
190.4	MODESTO	PIASA	LIMESTONE	5.8	320.6	
184.6	MODESTO		UNCLASSIFIED	1.5	326.4	
183.1	CARBONDALE	DANVILLE	COAL	0.1	327.9	
183.0	CARBONDALE		UNCLASSIFIED	17.8	328.0	
165.2	CARBONDALE	BANKSTON FORK	LIMESTONE	10.5	345.8	
154.7	CARBONDALE	ANVIL ROCK	SANDSTONE	1.3	356.3	
153.4	CARBONDALE		SHALE	1.0	357.6	
152.4	CARBONDALE	BRERETON	LIMESTONE	4.4	358.6	
148.0	CARBONDALE	ANNA	BLACK SHALE	1.0	363.0	
147.0	CARBONDALE	HERRIN	COAL	7.7	364.0	

MAPID: 00500671000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 3960' S line, 3630' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.592557 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.914897 **DATE COLLECTED:** 4 / 22 / 1957

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 521.0 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 2BB **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
454.2			COAL	0.5	56.8	
392.6	MODESTO	MACOUPIN	LIMESTONE	2.8	118.4	
193.9	SHELBURN	DANVILLE	COAL	0.3	317.1	
146.8	CARBONDALE	HERRIN	SHALY COAL	0.8	364.2	
146.2	CARBONDALE	HERRIN	COAL	1.4	364.8	
144.8	CARBONDALE	HERRIN	SHALE/COAL	1.0	366.2	
143.8	CARBONDALE	HERRIN	COAL	3.0	367.2	
140.9	CARBONDALE	HERRIN	PYRITE	0.0	370.1	
140.8	CARBONDALE	HERRIN	COAL	0.2	370.2	
140.7	CARBONDALE	HERRIN	CLAYSTONE	0.3	370.3	
140.4	CARBONDALE	HERRIN	COAL	1.1	370.6	
110.5	CARBONDALE	ST. DAVID	LIMESTONE	1.3	400.5	
50.8	CARBONDALE	HOUCHIN CREEK	COAL	2.3	460.2	

MAPID: 00500671000C **VERSION:** 4 **PROJECT:** NCRDS99

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 3960' S line, 3630' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.592557 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.914897 **DATE COLLECTED:** 4 / 1 / 1957

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 520.0 **LOG TYPE:** Multiple log types

SOURCE: DONAN 2-BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
511.0	PLEISTOCENE		UNCONSOLIDATED	19.0	0.0	
492.0	BOND		SHALE	36.0	19.0	
456.0	BOND		BLACK SHALE	1.0	55.0	
455.0	BOND		LIMESTONE	0.8	56.0	
454.2	BOND		COAL	0.7	56.8	
453.6	BOND		UNDERCLAY	6.3	57.4	
447.3	BOND		SHALE	19.3	63.7	
428.0	BOND		CLAYSTONE & SILTSTONE	0.6	83.0	
427.4	BOND		SHALE	9.4	83.6	
418.0	BOND	CARTHAGE	LIMESTONE	4.5	93.0	
413.5	MODESTO		BLACK SHALE	5.0	97.5	
408.5	MODESTO		SHALE	17.7	102.5	
390.8	MODESTO	WOMAC	COAL	3.3	120.2	
387.5	MODESTO		BLACK SHALE	0.9	123.5	
386.6	MODESTO	TRIVOLI	SANDY SHALE	1.8	124.4	
384.7	MODESTO	TRIVOLI	SHALY SANDSTONE	19.8	126.3	
365.0	MODESTO		SHALE	22.5	146.0	
342.5	MODESTO	TRIVOLI	SANDSTONE	64.7	168.5	
277.8	MODESTO		SHALE	5.5	233.2	
272.3	MODESTO		SANDSTONE	32.3	238.7	
240.0	MODESTO		SHALE	5.5	271.0	
234.5	MODESTO		SANDSTONE	2.5	276.5	
232.0	MODESTO		SHALE	10.0	279.0	
222.0	MODESTO		SANDSTONE	3.5	289.0	COAL STREAKS
218.5	MODESTO	SCOTTVILLE	LIMESTONE	1.5	292.5	CONGLOMERATIC
217.0	MODESTO		BLACK SHALE	2.0	294.0	
215.0	MODESTO		CLAYSTONE & SILTSTONE	3.0	296.0	
212.0	MODESTO		SANDSTONE	5.0	299.0	
207.0	MODESTO	LONSDALE	LIMESTONE	1.7	304.0	
205.3	MODESTO		SHALY SANDSTONE	4.3	305.7	
201.0	MODESTO		SANDY SHALE	7.0	310.0	
194.0	MODESTO		COAL	0.3	317.0	
193.7	MODESTO		UNDERCLAY	1.3	317.3	
192.5	MODESTO		SHALE	0.4	318.5	
192.0	MODESTO		CLAYSTONE & SILTSTONE	1.3	319.0	
190.7	MODESTO	PIASA	LIMESTONE	6.3	320.3	
184.5	MODESTO		BLACK SHALE	1.7	326.5	
182.8	MODESTO		CLAYSTONE & SILTSTONE	7.8	328.2	
175.0	MODESTO		BLACK SHALE	0.4	336.0	

174.6	CARBONDALE	DANVILLE	COAL	0.8	336.4	
173.8	CARBONDALE		UNDERCLAY	8.8	337.2	
165.0	CARBONDALE		SHALE	2.3	346.0	
162.7	CARBONDALE		LIMESTONE	0.3	348.3	
162.5	CARBONDALE		SHALE	5.5	348.5	
157.0	CARBONDALE	CONANT	LIMESTONE	2.5	354.0	
154.5	CARBONDALE		SHALE	2.3	356.5	
152.2	CARBONDALE	BRERETON	LIMESTONE	4.4	358.8	
147.8	CARBONDALE	ANNA	BLACK SHALE	1.0	363.2	
146.8	CARBONDALE	HERRIN	COAL	7.7	364.2	
139.2	CARBONDALE		UNDERCLAY	8.2	371.8	
131.0	CARBONDALE		LIMESTONE	2.0	380.0	
129.0	CARBONDALE		SHALE	18.5	382.0	
110.5	CARBONDALE	HANOVER	LIMESTONE	1.3	400.5	
109.2	CARBONDALE	EXCELLO	BLACK SHALE	0.9	401.8	
108.3	CARBONDALE	EXCELLO	SHALE	0.8	402.7	
107.5	CARBONDALE	HOUCHIN CREEK	COAL	0.2	403.5	
107.3	CARBONDALE		SHALE	5.0	403.7	
102.3	CARBONDALE		LIMESTONE	0.5	408.7	
101.8	CARBONDALE		SHALE	52.8	409.2	
49.0	CARBONDALE	SURVANT	COAL	2.3	462.0	
46.7	CARBONDALE		UNDERCLAY	0.3	464.3	
46.4	CARBONDALE		SHALE	0.7	464.6	
45.7	CARBONDALE		SANDSTONE	1.6	465.3	
44.2	CARBONDALE		SILTSTONE	1.8	466.8	
42.4	CARBONDALE		SHALE	37.1	468.6	
5.3	CARBONDALE		LIMESTONE	0.2	505.7	
5.2	CARBONDALE		BLACK SHALE	1.9	505.8	
3.2	CARBONDALE		LIMESTONE	0.5	507.8	BLACK
2.7	CARBONDALE		BLACK SHALE	2.0	508.3	
0.7	CARBONDALE		COAL	0.2	510.3	SHALEY
0.6	CARBONDALE		UNDERCLAY	1.8	510.4	
-1.2	CARBONDALE	MECCA QUARRY	CLAYSTONE	2.0	512.2	BLACK
-3.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.3	514.2	
-4.5	CARBONDALE	COLCHESTER	COAL	1.5	515.5	
-6.0			PYRITE	0.0	517.0	
-6.0			UNDERCLAY	3.0	517.0	

MAPID: 00523045000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** SE SE SW SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.585342 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.904213 **DATE COLLECTED:** 6 / 18 / 1981
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-531 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
153.6	CARBONDALE	HERRIN	COAL	6.7	396.4	CLEANM COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.0		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523046000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 6 **QUARTERS/FOOTAGES:** 332' S line, 1410' E line of NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.584695 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.912079 **DATE COLLECTED:** 7 / 30 / 1969
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 454.7 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-252 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
136.4	CARBONDALE	HERRIN	COAL	6.6	438.6	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.4		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523047000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 39' N line, 50' E line of NW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.594987 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.903932 **DATE COLLECTED:** 2 / 21 / 1967
SURFACE ELEVATION (FT.): 552.5 **LOGGED (FT.):** 408.5 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY W-28 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
154.5	CARBONDALE	HERRIN	COAL	7.1	398.0	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523048000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 62' N line, 312' W line of NW NE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.583603 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.903524 **DATE COLLECTED:** 7 / 25 / 1969

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 413.5 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY WF-247 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
157.3	CARBONDALE	HERRIN	COAL	6.8	397.7	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500658000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.569042 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.898675 **DATE COLLECTED:** 3 / 0 / 1957

SURFACE ELEVATION (FT.): 554.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
184.0	MODESTO	PIASA	LIMESTONE	5.0	370.0	
179.0	MODESTO		UNCLASSIFIED	7.0	375.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
172.0	CARBONDALE		UNCLASSIFIED	19.0	382.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
153.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	401.0	
146.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	408.0	
143.5	CARBONDALE		UNCLASSIFIED	2.5	410.5	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	1.0	413.0	
140.0	CARBONDALE	ANNA	BLACK SHALE	1.0	414.0	
139.0	CARBONDALE	HERRIN	COAL	5.0	415.0	

MAPID: 00523049000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 50' N line, 35' W line of NE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.565428 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.903041 **DATE COLLECTED:** 11 / 20 / 1969

SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 457.0 **LOG TYPE:** Multiple log types

SOURCE: CARTER OIL COMPANY S-3 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.6	CARBONDALE	HERRIN	COAL	7.8	409.4	THICKNESS FROM SAMPLES, E-LOGS; 1":20'

MAPID: 00523050000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 67' S line, 73' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.579227 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.888851 **DATE COLLECTED:** 7 / 28 / 1969
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 419.8 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-248 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
148.3	CARBONDALE	HERRIN	COAL	7.5	401.7	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523051000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 50' N line, 700' W line of SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.57709 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.895931 **DATE COLLECTED:** 12 / 11 / 1969
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 428.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-319 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
149.2	CARBONDALE	HERRIN	COAL	2.3	400.8	CLEAN COAL, SEE LOG; FAULT AT BASE?
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523052000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 50' N line, 675' W line of SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.577179 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.895934 **DATE COLLECTED:** 12 / 12 / 1969
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 455.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY WF-319-A **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
150.0	CARBONDALE	HERRIN	COAL	-	400.0	DEPTH, THICKNESS UNCERTAIN

MAPID: 00523053000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 68' N line, 718' W line of SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.577027 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.895879 **DATE COLLECTED:** 12 / 16 / 1969
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 455.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY 319-B **WELL TYPE:** Coal Test
COMMENT: SEE SUMMARY SHEET FOR FAULT COMMENTS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.5	CARBONDALE	HERRIN	COAL	8.0	400.5	THICKNESS FROM SAMPLES, E-LOG (1":20')

MAPID: 00523054000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 335' N line, 673' W line of SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.577178 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.895147 **DATE COLLECTED:** 12 / 19 / 1969
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 455.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY WF-319C **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.2	CARBONDALE	HERRIN	COAL	6.4	400.8	THICKNESS FROM SAMPLES, E-LOG (1":20')

MAPID: 00500045000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** NE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553782 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.901035 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 500.6 **LOGGED (FT.):** 2027.0 **LOG TYPE:**
SOURCE: PRODUCEROC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
110.6	CARBONDALE	HERRIN	COAL	8.0	390.0	

MAPID: 00500045000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** NE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553782 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.901035 **DATE COLLECTED:** 8 / 0 / 1910
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 398.0 **LOG TYPE:** Drillers Log
SOURCE: PRODUCERS OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
110.0	CARBONDALE	HERRIN	COAL	8.0	390.0	

MAPID: 00500046000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** SE/c NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553782 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.901035 **DATE COLLECTED:** 0 / 0 / 1911

SURFACE ELEVATION (FT.): 499.8 **LOGGED (FT.):** 2034.0 **LOG TYPE:**

SOURCE: PRODUCEROC **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
129.8	CARBONDALE	HERRIN	COAL	10.0	370.0	

MAPID: 00500046000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** SE/c NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553782 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.901035 **DATE COLLECTED:** 3 / 0 / 1911

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Drillers Log

SOURCE: PRODUCERS OIL CO **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.0	MODESTO	PIASA	LIMESTONE	5.0	320.0	
175.0	MODESTO		UNCLASSIFIED	5.0	325.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
170.0	CARBONDALE		UNCLASSIFIED	20.0	330.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	350.0	
142.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	358.0	
139.0	CARBONDALE		UNCLASSIFIED	3.0	361.0	SHALE ABOVE BRERETON LIMESTONE
136.0	CARBONDALE	BRERETON	LIMESTONE	4.0	364.0	
132.0	CARBONDALE	ANNA	BLACK SHALE	2.0	368.0	
130.0	CARBONDALE	HERRIN	COAL	10.0	370.0	

MAPID: 00500400000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554925 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.894649 **DATE COLLECTED:** 1 / 0 / 1956

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

SOURCE: MONKEN, LELAND **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.0		
-	MODESTO		UNCLASSIFIED	5.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	20.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5		
-	CARBONDALE		UNCLASSIFIED	1.5		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	5.5		ELEVATION OF HERRIN = 117

MAPID: 00500607000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 990' N line, 2310' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.550177 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.900045 **DATE COLLECTED:** 7 / 0 / 1953

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 377.0 **LOG TYPE:** Electric Log

SOURCE: GRIFFITH **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
158.0	MODESTO	PIASA	LIMESTONE	3.0	331.0	
155.0	MODESTO		UNCLASSIFIED	6.0	334.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
149.0	CARBONDALE		UNCLASSIFIED	17.0	340.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
132.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	357.0	
125.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	364.0	
123.0	CARBONDALE		UNCLASSIFIED	2.0	366.0	SHALE ABOVE BRERETON LIMESTONE
121.0	CARBONDALE	BRERETON	LIMESTONE	2.0	368.0	
119.0	CARBONDALE	ANNA	BLACK SHALE	2.0	370.0	
117.0	CARBONDALE	HERRIN	COAL	5.0	372.0	

MAPID: 00500607000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 990' N line, 2310' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.550177 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.900045 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 376.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
159.0	MODESTO	PIASA	LIMESTONE	3.0	330.0	
156.0	MODESTO		SHALE	9.0	333.0	
147.0	CARBONDALE		SHALE	9.0	342.0	
138.0	CARBONDALE		SHALE	9.0	351.0	
129.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	360.0	LOWER BENCH
127.0	CARBONDALE	LAWSON	SHALE	5.0	362.0	
122.0	CARBONDALE	BRERETON	LIMESTONE	2.0	367.0	
120.0	CARBONDALE	ANNA	SHALE	2.0	369.0	
118.0	CARBONDALE	HERRIN	COAL	5.0	371.0	

MAPID: 00500947000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 814' N line, 393' E line of NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552813 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.900599 **DATE COLLECTED:** 8 / 0 / 1962

SURFACE ELEVATION (FT.): 498.0 **LOGGED (FT.):** 366.0 **LOG TYPE:** Electric Log

SOURCE: NOETH THOMAS **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	MODESTO	PIASA	LIMESTONE	5.0	314.0	
179.0	MODESTO		UNCLASSIFIED	8.5	319.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
170.5	CARBONDALE		UNCLASSIFIED	16.5	327.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	344.0	
147.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	351.0	
143.0	CARBONDALE	CONANT	UNCLASSIFIED	0.5	355.0	
142.5	CARBONDALE		UNCLASSIFIED	1.5	355.5	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	2.0	357.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	2.0	359.0	
137.0	CARBONDALE	HERRIN	COAL	5.0	361.0	

MAPID: 00523055000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 96' S line, 18' E line of NW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.556187 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.899526 **DATE COLLECTED:** 11 / 18 / 1969
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 455.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY S-1 **WELL TYPE:** Coal Test
COMMENT: DRILLED FOR STRUCT. DATA-SECTION NORMAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.7	CARBONDALE	HERRIN	COAL	6.1	402.3	THICKNESS FROM SAMPLES, NO FAULT SEEN

MAPID: 00523056000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 80' S line, 65' W line of NW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.560596 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.899596 **DATE COLLECTED:** 11 / 14 / 1969
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 471.0 **LOG TYPE:** Drillers Log
SOURCE: CARTER OIL COMPANY S-2 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.0	CARBONDALE	HERRIN	COAL	7.2	404.0	

MAPID: 00523057000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 140' S line, 275' E line of SW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.54767 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.895759 **DATE COLLECTED:** 12 / 15 / 1969
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Drillers Log
SOURCE: CARTER OIL COMPANY S-4 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.2	CARBONDALE	HERRIN	COAL	7.8	370.8	

MAPID: 00523058000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 236' S line, 330' W line of SW NW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.550255 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.899761 **DATE COLLECTED:** 10 / 19 / 1966
SURFACE ELEVATION (FT.): 489.5 **LOGGED (FT.):** 405.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY W-10 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
122.4	CARBONDALE	HERRIN	COAL	6.8	367.1	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523128000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 103' S line, 22' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.56066 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.888652 **DATE COLLECTED:** 4 / 23 / 1969
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 459.5 **LOG TYPE:** Drillers Log
SOURCE: CARTER OIL WF-210 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
128.5	CARBONDALE	HERRIN	COAL	6.8	428.5	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500047000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526743 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.888414 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
139.7	MODESTO	PIASA	LIMESTONE	1.5	341.3	
138.2	MODESTO		UNCLASSIFIED	1.5	342.8	INTERVAL ABOVE DANVILLE, BELOW PIASA
136.7	CARBONDALE	DANVILLE	COAL	0.5	344.3	
136.2	CARBONDALE		UNCLASSIFIED	20.2	344.8	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
116.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	365.0	
107.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	374.0	
105.0	CARBONDALE		UNCLASSIFIED	2.0	376.0	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	4.0	378.0	
99.0	CARBONDALE	ANNA	BLACK SHALE	1.0	382.0	
98.0	CARBONDALE	HERRIN	COAL	7.0	383.0	

MAPID: 00500047000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526743 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.888414 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	1.5	341.0	
138.5	MODESTO		DARK GRAY SHALE	2.0	342.5	
136.5	CARBONDALE	DANVILLE	BONE COAL	0.3	344.5	
136.2	CARBONDALE		DARK GRAY SHALE	5.2	344.8	
131.0	CARBONDALE		DARK GRAY SHALE	7.0	350.0	
124.0	CARBONDALE	ALLENBY	COAL WITH SHALE PARTINGS	1.3	357.0	
122.7	CARBONDALE		SHALE	6.7	358.3	
116.0	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	365.0	LOWER BENCH
107.0	CARBONDALE	LAWSON	LIMESTONE W/ SHALE	4.0	374.0	
103.0	CARBONDALE	BRERETON	LIMESTONE	4.0	378.0	
99.0	CARBONDALE	ANNA	BLACK SHALE	1.0	382.0	
98.0	CARBONDALE	HERRIN	COAL	7.0	383.0	

MAPID: 00500047000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526743 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.888414 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 480.8 **LOGGED (FT.):** 400.0 **LOG TYPE:**
SOURCE: DONK BROS **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
97.8	CARBONDALE	HERRIN	COAL	7.0	383.0	

MAPID: 00523059000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** 72' S line, 287' E line of SW SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.528922 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.887751 **DATE COLLECTED:** 12 / 18 / 1969
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Drillers Log
SOURCE: CARTER OIL COMPANY S-7 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
105.7	CARBONDALE	HERRIN	COAL	7.5	384.3	

MAPID: 00523060000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** 40' N line, 200' W line of NW NW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.53198 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.902197 **DATE COLLECTED:** 8 / 18 / 1969
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 449.6 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-258 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
120.7	CARBONDALE	HERRIN	COAL	6.8	434.3	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500048000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** NE SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.505874 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.88972 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 483.5 **LOGGED (FT.):** 397.0 **LOG TYPE:**
SOURCE: DONK BROS **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
96.5	CARBONDALE	HERRIN	COAL	1.3	387.0	

MAPID: 00500048000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** NE SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.505874 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.88972 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 388.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
133.0	MODESTO	PIASA	LIMESTONE	2.0	351.0	
131.0	MODESTO		SHALE	5.0	353.0	
126.0	CARBONDALE		SHALE	5.0	358.0	
121.0	CARBONDALE		SHALE	5.0	363.0	
116.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	368.0	LOWER BENCH
113.0	CARBONDALE	LAWSON	GRAY SHALE	7.0	371.0	
106.0	CARBONDALE		CLAYSTONE	2.0	378.0	
104.0	CARBONDALE	BRERETON	LIMESTONE	1.0	380.0	
103.0	CARBONDALE	ANNA	DARK GRAY SHALE	6.0	381.0	
97.0	CARBONDALE	HERRIN	COAL	1.3	387.0	

MAPID: 00500484000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 1650' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.499066 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.900578 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 457.0 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Unsuccessful or Unknown Results

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.1	MODESTO	PIASA	LIMESTONE	4.0	409.9	
136.1	MODESTO		UNCLASSIFIED	6.0	413.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
130.1	CARBONDALE	DANVILLE	COAL	2.0	419.9	
128.1	CARBONDALE		UNCLASSIFIED	12.0	421.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
116.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	433.9	
106.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	443.9	
103.8	CARBONDALE		UNCLASSIFIED	2.3	446.2	SHALE ABOVE BRERETON LIMESTONE
101.5	CARBONDALE	BRERETON	LIMESTONE	1.5	448.5	
100.0	CARBONDALE	ANNA	BLACK SHALE	1.0	450.0	
99.0	CARBONDALE	HERRIN	COAL	6.0	451.0	

MAPID: 00500484000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 1650' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.499066 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.900578 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 457.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.0	MODESTO	PIASA	LIMESTONE	3.0	402.0	
145.0	MODESTO		SHALE	9.0	405.0	
136.0	CARBONDALE		SHALE	8.0	414.0	
128.0	CARBONDALE		SHALE	8.0	422.0	
120.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	430.0	LOWER BENCH
114.0	CARBONDALE	LAWSON	SHALE	3.0	436.0	
111.0	CARBONDALE	BRERETON	LIMESTONE	5.0	439.0	
106.0	CARBONDALE	ANNA	SHALE	6.0	444.0	
98.0	CARBONDALE	HERRIN	COAL	5.5	452.0	

MAPID: 00500299000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 13 **QUARTERS/FOOTAGES:** 380' S line, 330' W line of NE SW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.491681 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.882271 **DATE COLLECTED:** 9 / 0 / 1955

SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Electric Log

SOURCE: LITTLE WABASH OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.5	MODESTO	PIASA	LIMESTONE	4.0	372.5	
143.5	MODESTO		UNCLASSIFIED	5.0	376.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
138.5	CARBONDALE		UNCLASSIFIED	13.5	381.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
125.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	395.0	
119.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	6.0	401.0	
113.0	CARBONDALE		UNCLASSIFIED	4.0	407.0	SHALE ABOVE BRERETON LIMESTONE
109.0	CARBONDALE	BRERETON	LIMESTONE	2.5	411.0	
106.5	CARBONDALE	ANNA	BLACK SHALE	1.5	413.5	
105.0	CARBONDALE	HERRIN	COAL	5.0	415.0	

MAPID: 00500351000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.487011 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.885722 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log

SOURCE: LITTLE WABASH OIL CO. **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE		UNCLASSIFIED	1.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE

MAPID: 00500331000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.521952 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.873739 **DATE COLLECTED:** 10 / 0 / 1955
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: DEFRATIS & ASSC **WELL TYPE:** Producer-Oil
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.5		
-	CARBONDALE	ANNA	BLACK SHALE	1.5		
-	CARBONDALE	HERRIN	COAL	5.0		ELEVATION OF HERRIN = 115

MAPID: 00523061000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 14 **QUARTERS/FOOTAGES:** 188' N line, 1' W line of NW NW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.52321 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.886885 **DATE COLLECTED:** 8 / 14 / 1969
SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 415.5 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-257 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
92.8	CARBONDALE	HERRIN	COAL	7.2	392.2	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.0		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500049000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW/c NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.537238 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.884093 **DATE COLLECTED:** 0 / 0 / 1911
SURFACE ELEVATION (FT.): 511.8 **LOGGED (FT.):** 767.0 **LOG TYPE:**
SOURCE: PRODUCEROC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
131.8	CARBONDALE	HERRIN	COAL	10.0	380.0	

MAPID: 00500250000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.531282 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.8739 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 433.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.1	MODESTO	PIASA	LIMESTONE	3.0	382.9	
160.1	MODESTO		UNCLASSIFIED	6.0	385.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
154.1	CARBONDALE		UNCLASSIFIED	19.0	391.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
135.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	410.9	
126.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	419.4	
123.8	CARBONDALE		UNCLASSIFIED	2.8	422.2	SHALE ABOVE BRERETON LIMESTONE
121.0	CARBONDALE	BRERETON	LIMESTONE	1.0	425.0	
120.0	CARBONDALE	ANNA	BLACK SHALE	1.0	426.0	
119.0	CARBONDALE	HERRIN	COAL	6.0	427.0	

MAPID: 00500254000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 990' S line, 2310' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.533646 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.875751 **DATE COLLECTED:** 5 / 0 / 1955

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

SOURCE: SANDERS & FYE DRLG **WELL TYPE:** Producer-Oil

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.5		
-	CARBONDALE		UNCLASSIFIED	22.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 136

MAPID: 00500254000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 990' S line, 2310' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.533646 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.875751 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 392.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.0	MODESTO	PIASA	LIMESTONE	2.5	336.0	
171.5	MODESTO		SHALE	17.0	338.5	
154.5	CARBONDALE	DANVILLE	COAL	2.0	355.5	
152.5	CARBONDALE		SHALE	8.5	357.5	
144.0	CARBONDALE		SHALE	8.5	366.0	
135.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	374.5	LOWER BENCH
131.5	CARBONDALE	LAWSON	SHALE	5.0	378.5	
126.5	CARBONDALE	BRERETON	LIMESTONE	2.0	383.5	
124.5	CARBONDALE	ANNA	SHALE	1.5	385.5	
123.0	CARBONDALE	HERRIN	COAL	5.0	387.0	

MAPID: 00500271000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.538371 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.881354 **DATE COLLECTED:** 5 / 0 / 1955

SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Electric Log

SOURCE: LOAR WARREN N JR **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.0	MODESTO	PIASA	LIMESTONE	5.0	369.0	
169.0	MODESTO		UNCLASSIFIED	5.0	374.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
164.0	CARBONDALE		UNCLASSIFIED	19.0	379.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
145.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	398.0	
137.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	405.5	
134.5	CARBONDALE		UNCLASSIFIED	3.0	408.5	SHALE ABOVE BRERETON LIMESTONE
131.5	CARBONDALE	BRERETON	LIMESTONE	2.0	411.5	
129.5	CARBONDALE	ANNA	BLACK SHALE	1.5	413.5	
128.0	CARBONDALE	HERRIN	COAL	4.0	415.0	

MAPID: 00500272000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.531341 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.879388 **DATE COLLECTED:** 5 / 0 / 1955

SURFACE ELEVATION (FT.): 549.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: SANDERS & FYE DRLG **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.0	MODESTO	PIASA	LIMESTONE	4.0	388.0	
157.0	MODESTO		UNCLASSIFIED	3.0	392.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
154.0	CARBONDALE	DANVILLE	COAL	2.0	395.0	
152.0	CARBONDALE		UNCLASSIFIED	18.0	397.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
134.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	415.0	
127.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	422.0	
124.0	CARBONDALE		UNCLASSIFIED	3.0	425.0	SHALE ABOVE BRERETON LIMESTONE
121.0	CARBONDALE	BRERETON	LIMESTONE	3.0	428.0	
118.0	CARBONDALE	ANNA	BLACK SHALE	2.0	431.0	
116.0	CARBONDALE	HERRIN	COAL	5.0	433.0	

MAPID: 00500300000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.540768 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.885086 **DATE COLLECTED:** 7 / 0 / 1955

SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 404.5 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.1	MODESTO	PIASA	LIMESTONE	3.5	356.9	
176.6	MODESTO		UNCLASSIFIED	7.0	360.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
169.6	CARBONDALE		UNCLASSIFIED	14.5	367.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
155.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	381.9	
147.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	389.4	
144.3	CARBONDALE		UNCLASSIFIED	3.3	392.7	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	2.0	396.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	2.0	398.0	
137.0	CARBONDALE	HERRIN	COAL	4.5	400.0	

MAPID: 00500312000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.53951 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.878626 **DATE COLLECTED:** 7 / 0 / 1955
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 430.0 **LOG TYPE:** Electric Log
SOURCE: BASSETT, CLYDE **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
160.0	CARBONDALE		UNCLASSIFIED	8.0	400.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
152.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	408.0	
145.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	415.0	
143.5	CARBONDALE		UNCLASSIFIED	1.5	416.5	SHALE ABOVE BRERETON LIMESTONE
142.0	CARBONDALE	BRERETON	LIMESTONE	3.0	418.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	2.0	421.0	
137.0	CARBONDALE	HERRIN	COAL	7.0	423.0	

MAPID: 00500318000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.535985 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.877633 **DATE COLLECTED:** 9 / 0 / 1955
SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 439.5 **LOG TYPE:** Electric Log
SOURCE: BASSETT, CLYDE **WELL TYPE:** Producer-Oil
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
137.0	CARBONDALE	BRERETON	LIMESTONE	3.5	429.0	
133.5	CARBONDALE	ANNA	BLACK SHALE	3.5	432.5	
130.0	CARBONDALE	HERRIN	COAL	3.5	436.0	

MAPID: 00523062000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 17' S line, 294' W line of SE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526803 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.880253 **DATE COLLECTED:** 6 / 17 / 1974
SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 484.5 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY IB-835B **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
108.6	CARBONDALE	HERRIN	COAL	9.4	443.4	CLEAN COAL THICKNESS, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523063000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 320' N line, 300' E line of NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.533648 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.886792 **DATE COLLECTED:** 12 / 22 / 1969
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 480.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL COMPANY S-5 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
111.0	CARBONDALE	HERRIN	COAL	8.7	429.0	E-LOG 1":20'

MAPID: 00523064000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.524382 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.886526 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 399.2 **LOG TYPE:** Company map
SOURCE: CARTER OIL COMPANY WF-257 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.2	392.0	

MAPID: 00523065000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 125' N line, 250' W line of NW NW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.541087 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.887521 **DATE COLLECTED:** 8 / 21 / 1969
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-261 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
133.0	CARBONDALE	HERRIN	COAL	7.1	367.0	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500050000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** SW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.548932 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.882535 **DATE COLLECTED:** 0 / 0 / 1911
SURFACE ELEVATION (FT.): 571.4 **LOGGED (FT.):** 2155.0 **LOG TYPE:**
SOURCE: PRODUCEROC **WELL TYPE:** Oil and Gas Test
COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
136.4	CARBONDALE	HERRIN	COAL	8.0	435.0	

MAPID: 00500050000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** SW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.548932 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.882535 **DATE COLLECTED:** 2 / 0 / 1911
SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 443.0 **LOG TYPE:** Drillers Log
SOURCE: PRODUCERS OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
136.0	CARBONDALE	HERRIN	COAL	8.0	435.0	

MAPID: 00500255000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 552' N line, 300' W line of NE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.545583 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.886456 **DATE COLLECTED:** 4 / 0 / 1955
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	7.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	17.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5		
-	CARBONDALE		UNCLASSIFIED	1.5		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	5.0		ELEVATION OF HERRIN = 141

MAPID: 00500286000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.547634 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.874195 **DATE COLLECTED:** 6 / 0 / 1955

SURFACE ELEVATION (FT.): 547.0 **LOGGED (FT.):** 428.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
168.0	MODESTO	PIASA	LIMESTONE	5.0	379.0	
163.0	MODESTO		UNCLASSIFIED	7.0	384.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
156.0	CARBONDALE		UNCLASSIFIED	18.0	391.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
138.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	409.0	
129.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	418.0	
126.5	CARBONDALE		UNCLASSIFIED	2.5	420.5	SHALE ABOVE BRERETON LIMESTONE
124.0	CARBONDALE	BRERETON	LIMESTONE	1.0	423.0	
123.0	CARBONDALE	ANNA	BLACK SHALE	1.0	424.0	
122.0	CARBONDALE	HERRIN	COAL	3.0	425.0	

MAPID: 00500605000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552455 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.883557 **DATE COLLECTED:** 6 / 0 / 1952

SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Electric Log

SOURCE: MONTGOMERY BILL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.6	MODESTO	PIASA	LIMESTONE	4.0	360.4	
180.6	MODESTO		UNCLASSIFIED	6.0	364.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
174.6	CARBONDALE		UNCLASSIFIED	17.5	370.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
157.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	387.9	
148.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	396.4	
145.8	CARBONDALE		UNCLASSIFIED	2.8	399.2	SHALE ABOVE BRERETON LIMESTONE
143.0	CARBONDALE	BRERETON	LIMESTONE	2.5	402.0	
140.5	CARBONDALE	ANNA	BLACK SHALE	1.5	404.5	
139.0	CARBONDALE	HERRIN	COAL	5.0	406.0	

MAPID: 00501044000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542947 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.874081 **DATE COLLECTED:** 12 / 0 / 1954
SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 452.5 **LOG TYPE:** Electric Log
SOURCE: SMITH EDGAR F **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
170.5	MODESTO	PIASA	LIMESTONE	4.5	401.5	
166.0	MODESTO		UNCLASSIFIED	3.5	406.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
162.5	CARBONDALE		UNCLASSIFIED	17.0	409.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
145.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	426.5	
138.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0	434.0	
133.0	CARBONDALE		UNCLASSIFIED	5.0	439.0	SHALE ABOVE BRERETON LIMESTONE
128.0	CARBONDALE	BRERETON	LIMESTONE	2.0	444.0	
126.0	CARBONDALE	ANNA	BLACK SHALE	1.0	446.0	
125.0	CARBONDALE	HERRIN	COAL	5.5	447.0	

MAPID: 00501340000C **VERSION:** 1 **PROJECT:** ISGS96

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 165' S line, 45' E line of NE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.541985 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.877286 **DATE COLLECTED:** 5 / 30 / 1967
SURFACE ELEVATION (FT.): 554.6 **LOGGED (FT.):** 435.0 **LOG TYPE:** Company Sample Study
SOURCE: HUMBLE OIL CO. WF-26 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
128.7	CARBONDALE	HERRIN	COAL	7.2	425.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS, SEE LOG

MAPID: 00501340000C **VERSION:** 2 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 165' S line, 45' E line of NE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.541985 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.877286 **DATE COLLECTED:** 12 / 5 / 1968
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 435.0 **LOG TYPE:** Survey Core Study
SOURCE: HUMBLE OIL CO. WF-26 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-				-		COAL REPORTED ABOVE CORE AT 426'

MAPID: 00523066000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 77' S line, 313' E line of SW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.556936 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.873721 **DATE COLLECTED:** 8 / 1 / 1969
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 427.6 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-251 **WELL TYPE:** Coal Test
COMMENT: NET COAL ESTIMATED TO BE < 6'4"

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
144.4	CARBONDALE	HERRIN	COAL	3.3	415.6	GROSS COAL THCK, SEE LOG; COAL ANALYZED
141.1			CORE LOSS	0.4	418.9	
140.7	CARBONDALE	HERRIN	COAL	2.8	419.3	GROSS COAL THICKNESS, SEE LOG

MAPID: 00523067000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** SW SW NW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.550926 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.884756 **DATE COLLECTED:** 6 / 26 / 1981
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-533 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
141.0	CARBONDALE	HERRIN	COAL	6.6	384.0	CLEAN COAL THICKNESS, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500134000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 2960' S line, 3600' E line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.573356 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.882061 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 548.7 **LOGGED (FT.):** 2108.0 **LOG TYPE:**
SOURCE: JOLLY JENK **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
153.7	CARBONDALE	HERRIN	COAL	6.0	395.0	

MAPID: 00500134000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 2960' S line, 3600' E line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.573356 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.882061 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 549.0 **LOGGED (FT.):** 401.0 **LOG TYPE:** Drillers Log
SOURCE: JOLLY & JENKINS **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	CARBONDALE		UNCLASSIFIED	9.0	365.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
175.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	374.0	
166.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	383.0	
164.0	CARBONDALE		UNCLASSIFIED	2.0	385.0	SHALE ABOVE BRERETON LIMESTONE
162.0	CARBONDALE	BRERETON	LIMESTONE	8.0	387.0	
154.0	CARBONDALE	HERRIN	COAL	6.0	395.0	

MAPID: 00500261000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.57582 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.880367 **DATE COLLECTED:** 3 / 0 / 1955
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: DITTMEIER FRANK L JR **WELL TYPE:** Dry Hole
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	10.0		ELEVATION OF HERRIN = 163

MAPID: 00501046000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 500' S line, 500' W line of SE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.572926 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.882602 **DATE COLLECTED:** 11 / 0 / 1948
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log
SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	389.0	
154.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	396.0	
152.5	CARBONDALE		UNCLASSIFIED	0.5	397.5	SHALE ABOVE BRERETON LIMESTONE
152.0	CARBONDALE	BRERETON	LIMESTONE	4.0	398.0	
148.0	CARBONDALE	HERRIN	COAL	6.0	402.0	

MAPID: 00501047000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.568865 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.88391 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Drillers Log
SOURCE: KESL JOE JR ETAL **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
178.0	CARBONDALE		UNCLASSIFIED	7.0	380.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
171.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	387.0	
165.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	393.0	
163.0	CARBONDALE		UNCLASSIFIED	2.0	395.0	SHALE ABOVE BRERETON LIMESTONE
161.0	CARBONDALE	BRERETON	LIMESTONE	6.0	397.0	
155.0	CARBONDALE	HERRIN	COAL	5.0	403.0	

MAPID: 00521874000C **VERSION:** 1 **PROJECT:** ISGS96

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 98' N line, 25' E line of NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.570194 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.888252 **DATE COLLECTED:** 4 / 15 / 1974
SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 475.7 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY IB-820 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
134.5	CARBONDALE	HERRIN	COAL	8.0	421.5	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS, SEE LOG

MAPID: 00521874000C **VERSION:** 2 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 98' N line, 25' E line of NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.570194 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.888252 **DATE COLLECTED:** 6 / 3 / 1974
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 475.0 **LOG TYPE:** Survey Core Study
SOURCE: CARTER OIL COMPANY 1B-820 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	8.6	421.2	REMOVED BY CO.

MAPID: 00522209000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 2250' S line, 900' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.576151 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.880162 **DATE COLLECTED:** 9 / 12 / 1979
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY IB-504 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
153.1	CARBONDALE	HERRIN	COAL	6.8	394.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523068000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** SE SW SE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.572737 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.881299 **DATE COLLECTED:** 5 / 26 / 1981
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-522 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
153.3	CARBONDALE	HERRIN	COAL	7.3	394.7	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500051000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** NE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.581987 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.886889 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.3 **LOGGED (FT.):** 410.0 **LOG TYPE:**
SOURCE: DONK BROS **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
151.3	CARBONDALE	HERRIN	COAL	7.0	399.0	

MAPID: 00500051000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** NE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.581987 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.886889 **DATE COLLECTED:** 9 / 0 / 1906

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Drillers Log

SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
196.1	MODESTO	PIASA	LIMESTONE	5.0	353.9	
191.1	MODESTO		UNCLASSIFIED	11.0	358.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.1	CARBONDALE	DANVILLE	COAL	1.0	369.9	
179.1	CARBONDALE		UNCLASSIFIED	12.7	370.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.4	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	383.6	
158.4	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	391.6	
157.4	CARBONDALE		UNCLASSIFIED	0.9	392.6	SHALE ABOVE BRERETON LIMESTONE
156.5	CARBONDALE	BRERETON	LIMESTONE	5.0	393.5	
151.5	CARBONDALE	ANNA	BLACK SHALE	0.5	398.5	
151.0	CARBONDALE	HERRIN	COAL	7.0	399.0	

MAPID: 00500313000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.59853 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.882647 **DATE COLLECTED:** 8 / 0 / 1955

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

SOURCE: VAUGHN MARY **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	9.0		
-	MODESTO		UNCLASSIFIED	4.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	14.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5		
-	CARBONDALE		UNCLASSIFIED	3.5		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	4.0		

MAPID: 00500670000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2400' N line, 46' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.599529 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.882431 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 379.6 **LOG TYPE:** Survey Core Study

SOURCE: D.C. DONAN, JR. 1BB **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
204.1	MODESTO	PIASA	LIMESTONE	2.3	337.9	
201.9	MODESTO		SHALE	4.8	340.1	
197.1	CARBONDALE		CLAYSTONE & SHALE	4.0	344.9	
193.1	CARBONDALE		CALCAREOUS SHALE	8.5	348.9	
184.6	CARBONDALE	BANKSTON FORK	LIMESTONE	5.3	357.4	LOWER BENCH
179.2	CARBONDALE	LAWSON	DARK GRAY SHALE	3.8	362.8	
175.4	CARBONDALE	BRERETON	LIMESTONE	2.3	366.6	
173.1	CARBONDALE	ANNA	BLACK SHALE	3.1	368.9	
170.0	CARBONDALE	HERRIN	COAL	7.6	372.0	

MAPID: 00500670000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2400' N line, 46' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.599529 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.882431 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 379.6 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 1BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
210.8	MODESTO	PIASA	LIMESTONE	3.2	331.2	
207.6	MODESTO		UNCLASSIFIED	3.5	334.4	
204.1	CARBONDALE	DANVILLE	COAL	1.0	337.9	
203.1	CARBONDALE		UNCLASSIFIED	13.9	338.9	
189.2	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	352.8	
179.2	CARBONDALE	ANVIL ROCK	SANDSTONE	2.1	362.8	
177.1	CARBONDALE		SHALE	1.6	364.9	
175.5	CARBONDALE	BRERETON	LIMESTONE	2.2	366.5	
173.3	CARBONDALE	ANNA	BLACK SHALE	3.3	368.7	
170.0	CARBONDALE	HERRIN	COAL	7.6	372.0	

MAPID: 00500670000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2400' N line, 46' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.599529 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.882431 **DATE COLLECTED:** 5 / 0 / 1957

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 518.0 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 1BB **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
170.0	CARBONDALE	HERRIN	COAL	6.8	372.0	
129.9	CARBONDALE	SPRINGFIELD	COAL	0.0	412.1	

MAPID: 00500670000C **VERSION:** 4 **PROJECT:** NCRDS99

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2400' N line, 46' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.599529 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.882431 **DATE COLLECTED:** 5 / 30 / 1957

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 517.0 **LOG TYPE:** Drillers Log

SOURCE: DONAN 1-BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
542.0	PLEISTOCENE		UNCONSOLIDATED	27.0	0.0	
515.0	BOND		SHALE	33.0	27.0	
482.0	BOND		NO RECORD	5.2	60.0	
476.8	BOND		BLACK SHALE	0.8	65.2	
476.0	BOND		SHALE	50.0	66.0	
426.0	BOND	CARTHAGE	LIMESTONE	8.0	116.0	
418.0	MODESTO		BLACK SHALE	44.0	124.0	
374.0	MODESTO		NO RECORD	46.0	168.0	
328.0	MODESTO		CLAYSTONE & SILTSTONE	58.0	214.0	
270.0	MODESTO		SANDSTONE	32.0	272.0	
238.0	MODESTO		LIMESTONE	6.0	304.0	WITH CLAY
232.0	MODESTO		CLAYSTONE & SILTSTONE	1.8	310.0	
230.2	MODESTO		BLACK SHALE	4.2	311.8	
226.0	MODESTO		LIMESTONE	0.7	316.0	BLACK
225.3	MODESTO		BLACK SHALE	3.2	316.7	
222.2			SHALE	11.4	319.8	
210.7			BLACK SHALE	3.2	331.3	
207.6			SILTSTONE	0.5	334.4	
207.1			CLAYSTONE & SILTSTONE	3.0	334.9	CO.'S DEPTHS & THICKNESS AREN'T EQUAL
204.1			LIMESTONE	2.3	337.9	
201.8			SHALE	17.3	340.2	
184.5			LIMESTONE	5.3	357.5	
179.2			SHALE	3.8	362.8	
175.3	CARBONDALE	BRERETON	LIMESTONE	2.4	366.7	
172.9	CARBONDALE	ANNA	BLACK SHALE	3.1	369.1	
169.8	CARBONDALE	HERRIN	COAL	7.6	372.2	
162.2	CARBONDALE		UNDERCLAY	1.3	379.8	
161.0	CARBONDALE		CLAYSTONE & SILTSTONE	4.7	381.0	
156.3	CARBONDALE		SHALE	4.2	385.7	
152.2	CARBONDALE		CLAYSTONE & SILTSTONE	4.8	389.8	
147.3	CARBONDALE		LIMESTONE	0.4	394.7	
146.9	CARBONDALE		SHALE	1.3	395.1	
145.6	CARBONDALE		LIMESTONE	3.0	396.4	
142.6	CARBONDALE		SHALE	9.4	399.4	
133.2	CARBONDALE		LIMESTONE	1.6	408.8	
131.6	CARBONDALE		CLAYSTONE & SILTSTONE	6.1	410.4	
125.5	CARBONDALE		SANDSTONE	20.3	416.5	
105.2	CARBONDALE		LIMESTONE	0.1	436.8	
105.1	CARBONDALE		SHALE	33.4	436.9	

71.7	CARBONDALE		BLACK SHALE	0.1	470.3
71.6	CARBONDALE	SURVANT	COAL	3.1	470.4
68.5	CARBONDALE		BLACK SHALE	1.2	473.5
67.3	CARBONDALE		SANDSTONE	4.0	474.7
63.3	CARBONDALE		SANDY SHALE	3.8	478.7
59.5	CARBONDALE		SHALY SANDSTONE	6.0	482.5
53.5	CARBONDALE		SHALE	14.5	488.5
39.0	CARBONDALE		BLACK SHALE	4.3	503.0
34.7	CARBONDALE		LIMESTONE	0.3	507.3
34.4	CARBONDALE		BLACK SHALE	1.5	507.6
32.9	CARBONDALE		LIMESTONE	0.2	509.1
32.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.7	509.3
30.0	CARBONDALE	MECCA QUARRY	CALCAREOUS SHALE	0.0	512.0
30.0	CARBONDALE	COLCHESTER	COAL	2.2	512.0
27.8			SHALE	1.1	514.2
26.7			LIMESTONE	2.0	515.3

MAPID: 00523069000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** SW SE SW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.585661 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.881887 **DATE COLLECTED:** 6 / 24 / 1981

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 402.5 **LOG TYPE:** Other Core Study

SOURCE: EXXON COAL RESOURCES IB-532 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
172.3	CARBONDALE	HERRIN	COAL	7.2	375.7	TOTAL IN-SEAM PARTINGS-SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523070000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 115' N line, 440' E line of NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.591187 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.888577 **DATE COLLECTED:** 7 / 17 / 1974

SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 416.3 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY IB-841 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
166.0	CARBONDALE	HERRIN	COAL	6.8	379.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.4		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523071000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 201' N line, 184' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.599135 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.888493 **DATE COLLECTED:** 7 / 25 / 1969

SURFACE ELEVATION (FT.): 548.7 **LOGGED (FT.):** 423.3 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY WF-245 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
151.3	CARBONDALE	HERRIN	COAL	9.8	397.4	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500052000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW SW SW SW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.59882 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.860282 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 310.6 **LOG TYPE:** Drillers Log

SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
279.9	MODESTO	PIASA	LIMESTONE	6.0	259.1	
273.9	MODESTO		UNCLASSIFIED	5.0	265.1	INTERVAL ABOVE DANVILLE, BELOW PIASA
268.9	CARBONDALE		UNCLASSIFIED	17.0	270.1	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
251.9	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	287.1	
243.9	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	295.1	
242.4	CARBONDALE		UNCLASSIFIED	1.5	296.6	SHALE ABOVE BRERETON LIMESTONE
240.9	CARBONDALE	BRERETON	LIMESTONE	4.0	298.1	
236.9	CARBONDALE	ANNA	BLACK SHALE	1.9	302.1	
235.0	CARBONDALE	HERRIN	COAL	6.6	304.0	

MAPID: 00500052000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW SW SW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.59882 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.860282 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 310.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
279.9	MODESTO	PIASA	LIMESTONE	6.0	259.1	
273.9	MODESTO		GRAY SHALE	7.0	265.1	
266.9	CARBONDALE		CALCAREOUS SHALE	3.0	272.1	
263.9	CARBONDALE		DARK GRAY SHALE	4.8	275.1	
259.1	CARBONDALE	ALLENBY	COAL	1.2	279.9	
257.9	CARBONDALE		CALCAREOUS SHALE	8.0	281.1	
249.9	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	289.1	LOWER BENCH
243.9	CARBONDALE	LAWSON	CALCAREOUS SHALE	3.0	295.1	
240.9	CARBONDALE	BRERETON	LIMESTONE	4.0	298.1	
236.9	CARBONDALE	ANNA	BLACK SHALE	1.9	302.1	
235.0	CARBONDALE	HERRIN	COAL	6.6	304.0	

MAPID: 00500052000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW SW SW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.59882 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.860282 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 538.8 **LOGGED (FT.):** 323.0 **LOG TYPE:**
SOURCE: DONK BROS **WELL TYPE:** Coal Test
COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
234.8	CARBONDALE	HERRIN	COAL	6.6	304.0	

MAPID: 00523072000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 19 **QUARTERS/FOOTAGES:** 70' N line, 844' E line of NW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.587284 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.874001 **DATE COLLECTED:** 7 / 29 / 1969
SURFACE ELEVATION (FT.): 544.5 **LOGGED (FT.):** 362.5 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-249 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
199.2	CARBONDALE	HERRIN	COAL	6.8	345.3	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523073000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 19 **QUARTERS/FOOTAGES:** 68' S line, 21' W line of SW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.589203 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.867122 **DATE COLLECTED:** 8 / 26 / 1969

SURFACE ELEVATION (FT.): 544.4 **LOGGED (FT.):** 350.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY WF-265 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
209.8	CARBONDALE	HERRIN	COAL	7.5	334.6	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523074000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 19 **QUARTERS/FOOTAGES:** 47' S line, 88' W line of NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.599208 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.867272 **DATE COLLECTED:** 2 / 17 / 1970

SURFACE ELEVATION (FT.): 541.3 **LOGGED (FT.):** 341.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY WF-332 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
221.8	CARBONDALE	HERRIN	COAL	6.8	319.5	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500672000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 1390' N line, 2550' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570112 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.869976 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 381.4 **LOG TYPE:** Survey Core Study
SOURCE: D.C. DONAN, JR. 3BB **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
229.7	MODESTO	PIASA	LIMESTONE	1.0	331.3	
228.7	MODESTO		SHALE	15.8	332.3	
212.9	CARBONDALE	DANVILLE	BONE COAL	1.3	348.1	
211.6	CARBONDALE		CALCAREOUS SHALE	6.2	349.4	
205.4	CARBONDALE		DARK GRAY SHALE	0.5	355.6	
204.9	CARBONDALE		CALCAREOUS SHALE	0.6	356.1	
204.3	CARBONDALE	BANKSTON FORK	LIMESTONE	5.2	356.7	LOWER BENCH
199.2	CARBONDALE	LAWSON	DARK GRAY SHALE	2.8	361.8	
196.4	CARBONDALE	LAWSON	BLACK SHALE	3.3	364.6	
193.1	CARBONDALE	LAWSON	CALCAREOUS SHALE	0.3	367.9	
192.8	CARBONDALE	LAWSON	DARK GRAY SHALE	0.3	368.2	
192.6	CARBONDALE	BRERETON	LIMESTONE	4.6	368.4	
188.0	CARBONDALE	ANNA	BLACK SHALE	1.0	373.0	
187.0	CARBONDALE	HERRIN	COAL	7.4	374.0	

MAPID: 00500672000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 1390' N line, 2550' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570112 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.869976 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 381.4 **LOG TYPE:** Drillers Log
SOURCE: D.C. DONAN, JR. 3BB **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
230.6	MODESTO	PIASA	LIMESTONE	4.0	330.4	
226.6	MODESTO		UNCLASSIFIED	1.6	334.4	
225.0	CARBONDALE		UNCLASSIFIED	17.2	336.0	
207.8	CARBONDALE	BANKSTON FORK	LIMESTONE	9.1	353.2	
198.7	CARBONDALE	ANVIL ROCK	SANDSTONE	2.3	362.3	
196.4	CARBONDALE		SHALE	3.8	364.6	
192.6	CARBONDALE	BRERETON	LIMESTONE	4.7	368.4	
187.9	CARBONDALE	ANNA	BLACK SHALE	0.9	373.1	
187.0	CARBONDALE	HERRIN	COAL	7.4	374.0	

MAPID: 00500672000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 1390' N line, 2550' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570112 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.869976 **DATE COLLECTED:** 5 / 28 / 1957

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 554.0 **LOG TYPE:** Drillers Log

SOURCE: D.C. DONAN, JR. 3BB **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
448.0			COAL WITH SHALE	-	113.0	NO THICKNESS AVAILABLE
242.0			COAL	2.0	319.0	
212.1	SHELBURN	DANVILLE	COAL	1.3	348.9	
186.6	CARBONDALE	HERRIN	COAL	7.5	374.4	
147.8	CARBONDALE	SPRINGFIELD	COAL	-	413.2	NO THICKNESS AVAILABLE
90.4	CARBONDALE	SURVANT	COAL	3.3	470.6	
45.9	CARBONDALE	COLCHESTER	COAL	2.1	515.1	
33.6			COAL	1.3	527.4	

MAPID: 00500672000C **VERSION:** 4 **PROJECT:** NCRDS99

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 1390' N line, 2550' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570112 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.869976 **DATE COLLECTED:** 5 / 28 / 1957

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 553.5 **LOG TYPE:** Multiple log types

SOURCE: DONAN 3-BB **WELL TYPE:** Coal Test

COMMENT: FIRST 320'SAMPLED-EVERY 10 FEET

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
561.0	PLEISTOCENE		UNCONSOLIDATED	63.0	0.0	
498.0	BOND	CARTHAGE	LIMESTONE	4.0	63.0	
494.0	MODESTO		BLACK SHALE	0.5	67.0	
493.5	MODESTO		SHALE	75.5	67.5	COAL SEAMS (113'123')
418.0	MODESTO		BLACK SHALE	10.0	143.0	WITH SILTSTONE AND CLAY
408.0	MODESTO		SHALE	10.0	153.0	
398.0	MODESTO		SANDSTONE	30.0	163.0	WITH SHALE
368.0	MODESTO		SHALE	20.0	193.0	
348.0	MODESTO		SANDSTONE	10.0	213.0	WITH SHALE
338.0	MODESTO		SANDSTONE	80.0	223.0	COAL STREAKS (253'-283')
258.0	MODESTO		SANDY SHALE	16.0	303.0	
242.0	MODESTO		COAL	2.0	319.0	
-	MODESTO		SHALE	-		
240.0	MODESTO		LIMESTONE & SHALE	11.2	321.0	
228.8	MODESTO		LIMESTONE	1.0	332.2	
227.8	MODESTO		BLACK SHALE	1.6	333.2	
226.2	MODESTO		CLAYSTONE & SILTSTONE	4.5	334.8	
221.7	MODESTO		LIMESTONE	0.2	339.3	
221.5	MODESTO		SHALE	5.9	339.5	
215.7	MODESTO		BLACK SHALE	3.6	345.3	
212.1	CARBONDALE	DANVILLE	COAL	1.3	348.9	SHALEY
210.7	CARBONDALE		SHALE	7.3	350.3	
203.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.2	357.5	
198.3	CARBONDALE		SHALE	2.3	362.7	
196.1	CARBONDALE		BLACK SHALE	3.3	364.9	
192.7	CARBONDALE		SHALE	0.3	368.3	
192.5	CARBONDALE		SHALE	0.3	368.5	BLACK
192.2	CARBONDALE	BRERETON	LIMESTONE	4.6	368.8	
187.7	CARBONDALE	ANNA	SHALE	0.0	373.3	
187.6	CARBONDALE	ANNA	BLACK SHALE	1.0	373.4	
186.7	CARBONDALE	ANNA	PYRITE	0.0	374.3	
186.6	CARBONDALE	HERRIN	COAL	7.5	374.4	
179.2	CARBONDALE		UNDERCLAY	4.3	381.8	
174.9	CARBONDALE		SHALE	5.6	386.1	
169.3	CARBONDALE		CLAYSTONE & SILTSTONE	3.6	391.7	
165.7	CARBONDALE		LIMESTONE	1.6	395.3	
164.1	CARBONDALE		CLAYSTONE & SILTSTONE	5.7	396.9	
158.4	CARBONDALE		LIMESTONE	2.9	402.6	
155.5	CARBONDALE		CLAYSTONE & SILTSTONE	4.7	405.5	

150.8	CARBONDALE	HANOVER	LIMESTONE	1.6	410.2	
149.2	CARBONDALE	EXCELLO	BLACK SHALE	0.4	411.8	
148.8	CARBONDALE	EXCELLO	SHALE	1.0	412.2	
147.8	CARBONDALE		UNDERCLAY	0.3	413.2	
147.5	CARBONDALE		SHALE	1.0	413.5	
146.5	CARBONDALE		CLAYSTONE & SILTSTONE	4.4	414.5	
142.1	CARBONDALE		SILTSTONE	6.1	418.9	
137.0	CARBONDALE		SHALE	1.5	424.0	
135.5	CARBONDALE		SILTSTONE	8.3	425.5	
127.2	CARBONDALE		SHALE	4.7	433.8	
122.5	CARBONDALE		SILTSTONE	0.9	438.5	
121.6	CARBONDALE		SANDSTONE	0.1	439.4	
121.5	CARBONDALE		SHALE	31.1	439.5	
90.4	CARBONDALE	SURVANT	COAL	3.3	470.6	
87.1	CARBONDALE		SILTSTONE	1.5	473.9	
85.6	CARBONDALE		SHALE	1.0	475.4	
84.6	CARBONDALE		SILTSTONE	7.6	476.4	CORE LOSS(476.83'-478.75)
77.0	CARBONDALE		SHALE	25.3	484.0	
51.7	CARBONDALE		LIMESTONE	0.6	509.3	
51.1	CARBONDALE		BLACK SHALE	1.3	509.9	
49.7	CARBONDALE		LIMESTONE	0.3	511.3	BLACK
49.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.6	511.5	CLOD SHALE
45.9	CARBONDALE	COLCHESTER	COAL	2.1	515.1	
43.8	SPOON		UNDERCLAY	0.9	517.2	
42.9	SPOON		CLAYSTONE & SILTSTONE	0.8	518.1	
42.1	SPOON		LIMESTONE	1.1	518.9	
41.0	SPOON		SHALE	2.9	520.0	
38.1	SPOON		CLAYSTONE & SILTSTONE	1.3	522.9	
36.8	SPOON		BLACK SHALE	2.3	524.2	
34.6	SPOON		PYRITE	0.3	526.4	
34.3	SPOON		NO RECORD	0.8	526.7	
33.6	SPOON		COAL	1.4	527.4	
32.2	SPOON		UNDERCLAY	1.3	528.8	
31.9	SPOON		CLAYSTONE & SILTSTONE	1.2	529.1	"MAY REPRESENT CAVE IN PART"
30.7	SPOON		BLACK SHALE	0.3	530.3	
30.5	SPOON		UNDERCLAY	0.5	530.5	
30.0	SPOON		CLAYSTONE & SILTSTONE	3.5	531.0	
26.5	SPOON		BLACK SHALE	0.0	534.5	WITH SOME COAL ZONES
26.5			UNDERCLAY	0.7	534.5	
25.8			CLAYSTONE & SILTSTONE	3.2	535.2	
22.6			SHALE	7.8	538.4	
14.8			SILTSTONE	1.8	546.2	
13.1			SHALE	5.0	547.9	
8.1			BLACK SHALE	0.0	552.9	WITH SOME COAL ZONES
8.1			SHALE	0.2	552.9	
7.9			SILTSTONE	0.4	553.1	

MAPID: 00500707000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 990' N line, 660' E line of NW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.567468 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.871021 **DATE COLLECTED:** 3 / 0 / 1955

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Electric Log

SOURCE: SOLANO, ACCURO & VINCENT **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
186.0	CARBONDALE	BRERETON	LIMESTONE	3.0	369.0	
183.0	CARBONDALE	HERRIN	COAL	8.0	372.0	

MAPID: 00523075000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 125' S line, 20' E line of NW SW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.574368 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.863312 **DATE COLLECTED:** 2 / 6 / 1970

SURFACE ELEVATION (FT.): 544.7 **LOGGED (FT.):** 107.5 **LOG TYPE:** Multiple log types

SOURCE: CARTER OIL COMPANY 2-M-2 **WELL TYPE:** Coal Test

COMMENT: WATER TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
544.7			UNCLASSIFIED	107.5	0.0	

MAPID: 00523076000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 65' S line, 50' W line of NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.569537 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.866678 **DATE COLLECTED:** 8 / 24 / 1971

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 386.3 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL COMPANY IB-494 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.1	CARBONDALE	HERRIN	COAL	7.0	376.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.5		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523077000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 57' N line, 708' W line of NE NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.572037 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.873702 **DATE COLLECTED:** 2 / 16 / 1967
SURFACE ELEVATION (FT.): 552.3 **LOGGED (FT.):** 373.5 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY W-27 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
189.5	CARBONDALE	HERRIN	COAL	6.3	362.8	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.7		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523078000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 533' S line, 62' E line of SW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.565297 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.86787 **DATE COLLECTED:** 8 / 21 / 1969
SURFACE ELEVATION (FT.): 552.1 **LOGGED (FT.):** 394.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-262 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
174.4	CARBONDALE	HERRIN	COAL	7.3	377.7	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500287000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.547514 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.868718 **DATE COLLECTED:** 6 / 0 / 1955
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 425.0 **LOG TYPE:** Electric Log
SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
183.0	MODESTO	PIASA	LIMESTONE	4.0	372.0	
179.0	MODESTO		UNCLASSIFIED	5.5	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
173.5	CARBONDALE		UNCLASSIFIED	19.5	381.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	401.0	
145.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	410.0	
142.0	CARBONDALE		UNCLASSIFIED	3.0	413.0	SHALE ABOVE BRERETON LIMESTONE
139.0	CARBONDALE	BRERETON	LIMESTONE	1.5	416.0	
137.5	CARBONDALE	ANNA	BLACK SHALE	2.5	417.5	
135.0	CARBONDALE	HERRIN	COAL	5.0	420.0	

MAPID: 00500390000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.547343 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.861413 **DATE COLLECTED:** 11 / 0 / 1955

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

SOURCE: NEARY & CAHILL **WELL TYPE:** Producer-Oil

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	5.5		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	19.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	5.0		
-	CARBONDALE		UNCLASSIFIED	5.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	4.0		ELEVATION OF HERRIN = 139

MAPID: 00500649000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 360' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.543017 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.872259 **DATE COLLECTED:** 2 / 0 / 1957

SURFACE ELEVATION (FT.): 647.0 **LOGGED (FT.):** 537.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
163.0	MODESTO	PIASA	LIMESTONE	3.0	484.0	
160.0	MODESTO		UNCLASSIFIED	5.0	487.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
155.0	CARBONDALE		UNCLASSIFIED	19.0	492.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
136.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	511.0	
127.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	520.0	
124.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	522.5	
123.5	CARBONDALE		UNCLASSIFIED	4.5	523.5	SHALE ABOVE BRERETON LIMESTONE
119.0	CARBONDALE	BRERETON	LIMESTONE	2.5	528.0	
116.5	CARBONDALE	ANNA	BLACK SHALE	1.5	530.5	
115.0	CARBONDALE	HERRIN	COAL	5.0	532.0	

MAPID: 00500917000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 20' S line, 10' E line of NE NE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.541571 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.864071 **DATE COLLECTED:** 3 / 0 / 1961

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

SOURCE: CAHILL & SMITH **WELL TYPE:** Water Injection

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	19.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5		
-	CARBONDALE		UNCLASSIFIED	2.5		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	5.5		ELEVATION OF HERRIN = 151

MAPID: 00500974000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 660' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.543751 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.859507 **DATE COLLECTED:** 9 / 0 / 1963

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Electric Log

SOURCE: CAHILL & SMITH **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
199.0	MODESTO	PIASA	LIMESTONE	4.0	359.0	
195.0	MODESTO		UNCLASSIFIED	5.5	363.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
189.5	CARBONDALE		UNCLASSIFIED	16.5	368.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
173.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	385.0	
164.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	393.5	
162.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	396.0	
161.0	CARBONDALE		UNCLASSIFIED	6.0	397.0	SHALE ABOVE BRERETON LIMESTONE
155.0	CARBONDALE	BRERETON	LIMESTONE	1.5	403.0	
153.5	CARBONDALE	ANNA	BLACK SHALE	1.5	404.5	
152.0	CARBONDALE	HERRIN	COAL	5.0	406.0	

MAPID: 00500974000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 660' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.543751 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.859507 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 411.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
199.0	MODESTO	PIASA	LIMESTONE	4.0	359.0	
195.0	MODESTO		SHALE	14.0	363.0	
181.0	CARBONDALE	DANVILLE	COAL	2.0	377.0	
179.0	CARBONDALE		SHALE	6.0	379.0	
173.0	CARBONDALE		SHALE	5.0	385.0	
168.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	390.0	LOWER BENCH
164.0	CARBONDALE	LAWSON	SHALE	8.0	394.0	
156.0	CARBONDALE	BRERETON	LIMESTONE	3.0	402.0	
153.0	CARBONDALE	HERRIN	COAL	6.0	405.0	

MAPID: 00501049000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.552207 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.868832 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Electric Log

SOURCE: TINSLEY HERBERT **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	CARBONDALE	HERRIN	COAL	11.0	424.0	

MAPID: 00501050000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542679 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.863132 **DATE COLLECTED:** 10 / 0 / 1954

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: NEARY & CAHILL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
197.0	MODESTO	PIASA	LIMESTONE	4.0	360.0	
193.0	MODESTO		UNCLASSIFIED	6.0	364.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
187.0	CARBONDALE		UNCLASSIFIED	18.0	370.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
169.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	388.0	
161.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	396.0	
157.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	399.5	
156.5	CARBONDALE		UNCLASSIFIED	3.0	400.5	SHALE ABOVE BRERETON LIMESTONE
153.5	CARBONDALE	BRERETON	LIMESTONE	1.5	403.5	
152.0	CARBONDALE	ANNA	BLACK SHALE	2.0	405.0	
150.0	CARBONDALE	HERRIN	COAL	3.0	407.0	

MAPID: 00501053000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 430' N line, 330' E line of NE SE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542625 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.861031 **DATE COLLECTED:** 10 / 0 / 1954

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 401.0 **LOG TYPE:** Electric Log

SOURCE: NEARY & CAHILL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
201.1	MODESTO	PIASA	LIMESTONE	2.0	350.9	
199.1	MODESTO		UNCLASSIFIED	6.0	352.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
193.1	CARBONDALE		UNCLASSIFIED	19.0	358.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	377.9	
167.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.3	384.9	
162.8	CARBONDALE		UNCLASSIFIED	4.3	389.2	SHALE ABOVE BRERETON LIMESTONE
158.5	CARBONDALE	BRERETON	LIMESTONE	2.5	393.5	
156.0	CARBONDALE	ANNA	BLACK SHALE	2.0	396.0	
154.0	CARBONDALE	HERRIN	COAL	3.0	398.0	

MAPID: 00523079000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 59' N line, 560' W line of NW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.558406 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.866071 **DATE COLLECTED:** 8 / 4 / 1969
SURFACE ELEVATION (FT.): 562.3 **LOGGED (FT.):** 438.7 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-253 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
140.7	CARBONDALE	HERRIN	COAL	6.7	421.6	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.5		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523080000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 72' S line, 29' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.560162 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.859163 **DATE COLLECTED:** 12 / 3 / 1969
SURFACE ELEVATION (FT.): 550.5 **LOGGED (FT.):** 427.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY WF-315 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
139.9	CARBONDALE	HERRIN	COAL	7.1	410.6	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.4		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500100000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.526259 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.860934 **DATE COLLECTED:** 0 / 0 / 1932
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 926.0 **LOG TYPE:**
SOURCE: ASHBY 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
148.0	CARBONDALE	HERRIN	COAL	9.0	332.0	

MAPID: 00500100000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** NW SE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.526259 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.860934 **DATE COLLECTED:** 11 / 0 / 1932

SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 341.0 **LOG TYPE:** Drillers Log

SOURCE: ASHBY, ETAL **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
160.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	320.0	
154.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	326.0	
152.0	CARBONDALE		UNCLASSIFIED	2.0	328.0	SHALE ABOVE BRERETON LIMESTONE
150.0	CARBONDALE	BRERETON	LIMESTONE	2.0	330.0	
148.0	CARBONDALE	HERRIN	COAL	9.0	332.0	

MAPID: 00500247000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.528915 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.872037 **DATE COLLECTED:** 5 / 0 / 1955

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Electric Log

SOURCE: SMITH EDGAR F **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.5	MODESTO	PIASA	LIMESTONE	5.0	367.5	
179.5	MODESTO		UNCLASSIFIED	3.5	372.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE	DANVILLE	COAL	2.0	376.0	
174.0	CARBONDALE		UNCLASSIFIED	19.0	378.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
155.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	397.0	
146.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	406.0	
144.0	CARBONDALE		UNCLASSIFIED	2.0	408.0	SHALE ABOVE BRERETON LIMESTONE
142.0	CARBONDALE	BRERETON	LIMESTONE	2.0	410.0	
140.0	CARBONDALE	ANNA	BLACK SHALE	2.0	412.0	
138.0	CARBONDALE	HERRIN	COAL	6.0	414.0	

MAPID: 00500247000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.528915 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.872037 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 426.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
177.5	MODESTO	PIASA	LIMESTONE	4.0	374.5	
173.5	MODESTO		SHALE	13.5	378.5	
160.0	CARBONDALE	DANVILLE	COAL	2.0	392.0	
158.0	CARBONDALE		SHALE	7.0	394.0	
151.0	CARBONDALE		SHALE	7.0	401.0	
144.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	408.0	LOWER BENCH
140.0	CARBONDALE	LAWSON	SHALE	4.0	412.0	
136.0	CARBONDALE	BRERETON	LIMESTONE	2.0	416.0	
134.0	CARBONDALE	ANNA	SHALE	2.0	418.0	
132.0	CARBONDALE	HERRIN	COAL	6.5	420.0	

MAPID: 00500316000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.54058 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.87221 **DATE COLLECTED:** 8 / 0 / 1955

SURFACE ELEVATION (FT.): 554.0 **LOGGED (FT.):** 433.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.1	MODESTO	PIASA	LIMESTONE	3.0	380.9	
170.1	MODESTO		UNCLASSIFIED	5.0	383.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
165.1	CARBONDALE		UNCLASSIFIED	19.0	388.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
146.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	407.9	
138.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8	415.9	
134.3	CARBONDALE		UNCLASSIFIED	3.8	419.7	SHALE ABOVE BRERETON LIMESTONE
130.5	CARBONDALE	BRERETON	LIMESTONE	2.5	423.5	
128.0	CARBONDALE	ANNA	BLACK SHALE	2.0	426.0	
126.0	CARBONDALE	HERRIN	COAL	5.0	428.0	

MAPID: 00501056000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.531196 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.87022 **DATE COLLECTED:** 3 / 0 / 1955

SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 351.0 **LOG TYPE:** Electric Log

SOURCE: SMITH EDGAR F **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
185.0	MODESTO	PIASA	LIMESTONE	2.5	301.0	
182.5	MODESTO		UNCLASSIFIED	6.5	303.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE		UNCLASSIFIED	19.0	310.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
157.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	329.0	
149.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	337.0	
147.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	338.5	
146.5	CARBONDALE		UNCLASSIFIED	3.5	339.5	SHALE ABOVE BRERETON LIMESTONE
143.0	CARBONDALE	BRERETON	LIMESTONE	2.0	343.0	
141.0	CARBONDALE	ANNA	BLACK SHALE	2.0	345.0	
139.0	CARBONDALE	HERRIN	COAL	4.0	347.0	

MAPID: 00501057000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.528862 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.870179 **DATE COLLECTED:** 3 / 0 / 1955

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Electric Log

SOURCE: SMITH EDGAR F **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.1	MODESTO	PIASA	LIMESTONE	4.0	297.9	
180.1	MODESTO		UNCLASSIFIED	3.5	301.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.6	CARBONDALE	DANVILLE	COAL	2.0	305.4	
174.6	CARBONDALE		UNCLASSIFIED	19.5	307.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
155.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	326.9	
147.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	334.4	
144.3	CARBONDALE		UNCLASSIFIED	3.3	337.7	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	2.5	341.0	
138.5	CARBONDALE	ANNA	BLACK SHALE	1.5	343.5	
137.0	CARBONDALE	HERRIN	COAL	5.0	345.0	

MAPID: 00501058000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.52637 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.86463 **DATE COLLECTED:** 2 / 0 / 1955
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 341.0 **LOG TYPE:** Electric Log
SOURCE: DEFRATIS & ASSC **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	CARBONDALE	HERRIN	COAL	6.0	335.0	

MAPID: 00501064000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.53562 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.861149 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 395.0 **LOG TYPE:** Electric Log
SOURCE: WOOSLEY KENNETH **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	3.0	352.0	
190.0	MODESTO		UNCLASSIFIED	3.0	355.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
187.0	CARBONDALE		UNCLASSIFIED	11.0	358.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
176.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	369.0	
168.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	377.0	
164.0	CARBONDALE		UNCLASSIFIED	4.0	381.0	SHALE ABOVE BRERETON LIMESTONE
160.0	CARBONDALE	BRERETON	LIMESTONE	5.0	385.0	
155.0	CARBONDALE	HERRIN	COAL	5.0	390.0	

MAPID: 00501068000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 296' S line, 391' E line of NE SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.533537 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.862834 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 347.0 **LOG TYPE:** Electric Log
SOURCE: WOOSLEY KENNETH **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
156.0	CARBONDALE	BRERETON	LIMESTONE	6.0	338.0	
150.0	CARBONDALE	HERRIN	COAL	3.0	344.0	

MAPID: 00523081000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 16' S line, 65' W line of SW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.532006 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.865697 **DATE COLLECTED:** 10 / 10 / 1969
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 416.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-289 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
146.5	CARBONDALE	HERRIN	COAL	7.4	398.5	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500053000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.507612 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.860475 **DATE COLLECTED:** 0 / 0 / 1918
SURFACE ELEVATION (FT.): 512.5 **LOGGED (FT.):** 404.0 **LOG TYPE:**
SOURCE: DONK BROS **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
127.5	CARBONDALE	HERRIN	COAL	8.5	385.0	

MAPID: 00500053000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.507612 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.860475 **DATE COLLECTED:** 0 / 0 / 1918
SURFACE ELEVATION (FT.): 513.0 **LOGGED (FT.):** 395.5 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
167.0	MODESTO	PIASA	LIMESTONE	2.5	346.0	
164.5	MODESTO		UNCLASSIFIED	3.5	348.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
161.0	CARBONDALE		UNCLASSIFIED	17.0	352.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
144.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	369.0	
135.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	378.0	
133.0	CARBONDALE		UNCLASSIFIED	2.0	380.0	SHALE ABOVE BRERETON LIMESTONE
131.0	CARBONDALE	BRERETON	LIMESTONE	3.0	382.0	
128.0	CARBONDALE	ANNA	BLACK SHALE	2.0	385.0	
126.0	CARBONDALE	HERRIN	COAL	8.5	387.0	

MAPID: 00500101000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.521694 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.864518 **DATE COLLECTED:** 0 / 0 / 1933
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:**
SOURCE: ASHBY **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
133.0	CARBONDALE	HERRIN	COAL	7.0	353.0	

MAPID: 00500101000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.521694 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.864518 **DATE COLLECTED:** 9 / 0 / 1933
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 365.0 **LOG TYPE:** Drillers Log
SOURCE: ASHBY, ETAL **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
173.0	MODESTO	PIASA	LIMESTONE	6.0	313.0	
167.0	MODESTO		UNCLASSIFIED	5.0	319.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
162.0	CARBONDALE		UNCLASSIFIED	16.0	324.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
146.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	340.0	
139.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	347.0	
135.0	CARBONDALE		UNCLASSIFIED	4.0	351.0	SHALE ABOVE BRERETON LIMESTONE
131.0	CARBONDALE	BRERETON	LIMESTONE	4.0	355.0	
127.0	CARBONDALE	HERRIN	COAL	6.0	359.0	

MAPID: 00500109000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.51708 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.866242 **DATE COLLECTED:** 0 / 0 / 1934
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:**
SOURCE: ASHBY **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
154.0	CARBONDALE	HERRIN	COAL	5.0	372.0	

MAPID: 00500909000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** 300' N line, 650' E line of SW NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.520601 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.868273 **DATE COLLECTED:** 12 / 0 / 1960

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 379.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
167.5	MODESTO	PIASA	LIMESTONE	3.5	332.5	
164.0	MODESTO		UNCLASSIFIED	4.5	336.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
159.5	CARBONDALE		UNCLASSIFIED	14.5	340.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
145.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	355.0	
136.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	364.0	
132.5	CARBONDALE		UNCLASSIFIED	3.5	367.5	SHALE ABOVE BRERETON LIMESTONE
129.0	CARBONDALE	BRERETON	LIMESTONE	2.0	371.0	
127.0	CARBONDALE	ANNA	BLACK SHALE	1.0	373.0	
126.0	CARBONDALE	HERRIN	COAL	5.0	374.0	

MAPID: 00501918000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW SE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.507612 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.860475 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 513.0 **LOGGED (FT.):** 393.5 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
169.0	MODESTO	PIASA	LIMESTONE	2.5	344.0	
166.5	MODESTO		SHALE	3.5	346.5	
163.0	CARBONDALE		DARK GRAY SHALE	14.0	350.0	
149.0	CARBONDALE		SHALE	3.0	364.0	
146.0	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	367.0	LOWER BENCH
137.0	CARBONDALE	ANNA	BLACK SHALE	4.0	376.0	
133.0	CARBONDALE	ENERGY	DARK GRAY SHALE	5.0	380.0	
128.0	CARBONDALE	HERRIN	COAL	8.5	385.0	

MAPID: 00523082000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** 39' N line, 103' W line of NE NE NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.506359 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.872291 **DATE COLLECTED:** 11 / 6 / 1973

SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 426.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL IG-801 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
89.4	CARBONDALE	HERRIN	COAL	7.1	395.6	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523083000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** SE SW SE SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.488298 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.857827 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 447.4 **LOG TYPE:** Company map

SOURCE: CARTER OIL WF-5 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	6.4	441.0	

MAPID: 00521699000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 25 **QUARTERS/FOOTAGES:** NE SE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.495801 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.852911 **DATE COLLECTED:** 5 / 1 / 1971

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Survey Core Study

SOURCE: MONTEREY COAL CO. 2-M-8 **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
420.5			COAL	0.8	125.5	
167.5	CARBONDALE	HERRIN	COAL	7.1	378.5	

MAPID: 00521699000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 25 **QUARTERS/FOOTAGES:** NE SE NW

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.495801 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.852911 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 386.1 **LOG TYPE:** Drillers Log

SOURCE: MONTEREY COAL CO. 2-M-8 **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
215.2	MODESTO	PIASA	LIMESTONE	5.7	330.8	
209.5	MODESTO		SHALE	10.0	336.5	
199.5	CARBONDALE		SHALE	8.0	346.5	
191.5	CARBONDALE		SHALE	8.0	354.5	
183.5	CARBONDALE	BANKSTON FORK	LIMESTONE	7.5	362.5	LOWER BENCH
176.0	CARBONDALE	LAWSON	SHALE	6.0	370.0	
170.0	CARBONDALE	BRERETON	LIMESTONE	1.3	376.0	
168.7	CARBONDALE	ANNA	BLACK SHALE	1.7	377.3	
167.0	CARBONDALE	HERRIN	COAL	7.1	379.0	

MAPID: 00523084000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 25 **QUARTERS/FOOTAGES:** SE NE NW SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.602729 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.851052 **DATE COLLECTED:** 5 / 27 / 1981

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 360.4 **LOG TYPE:** Other Core Study

SOURCE: EXXON COAL RESOURCES IB-523 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
208.4	CARBONDALE	HERRIN	COAL	6.9	333.6	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500606000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.509743 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.85139 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 407.0 **LOG TYPE:** Electric Log

SOURCE: ROBBEN ROBERT H **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.0	MODESTO	PIASA	LIMESTONE	4.0	359.0	
159.0	MODESTO		UNCLASSIFIED	3.0	363.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
156.0	CARBONDALE	DANVILLE	COAL	2.0	366.0	
154.0	CARBONDALE		UNCLASSIFIED	19.5	368.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
134.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	387.5	
127.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	395.0	
124.5	CARBONDALE		UNCLASSIFIED	2.5	397.5	SHALE ABOVE BRERETON LIMESTONE
122.0	CARBONDALE	BRERETON	LIMESTONE	2.0	400.0	
120.0	CARBONDALE	ANNA	BLACK SHALE	2.0	402.0	
118.0	CARBONDALE	HERRIN	COAL	3.0	404.0	

MAPID: 00500606000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.509743 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.85139 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 414.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
126.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	396.0	LOWER BENCH
121.0	CARBONDALE	LAWSON	SHALE	4.0	401.0	
117.0	CARBONDALE	BRERETON	LIMESTONE	3.0	405.0	
114.0	CARBONDALE	HERRIN	COAL	6.0	408.0	

MAPID: 00500665000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 405' S line, 318' E line of SW SE SW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.516538 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.844396 **DATE COLLECTED:** 4 / 0 / 1957

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 353.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Gas

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	4.0	304.0	
187.0	MODESTO		UNCLASSIFIED	4.0	308.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.0	CARBONDALE		UNCLASSIFIED	18.0	312.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
165.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	330.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	339.0	
153.0	CARBONDALE		UNCLASSIFIED	3.0	342.0	SHALE ABOVE BRERETON LIMESTONE
150.0	CARBONDALE	BRERETON	LIMESTONE	1.0	345.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	2.0	346.0	
147.0	CARBONDALE	HERRIN	COAL	5.0	348.0	

MAPID: 00523085000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** SE NW SE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.506696 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.84536 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 407.7 **LOG TYPE:** Company map

SOURCE: CARTER OIL IG-767 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.7	402.0	

MAPID: 00500603000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.540204 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.8576 **DATE COLLECTED:** 1 / 0 / 1955

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

SOURCE: CANTER DRILLING CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	5.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	17.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0		
-	CARBONDALE		UNCLASSIFIED	4.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.0		
-	CARBONDALE	ANNA	BLACK SHALE	1.0		
-	CARBONDALE	HERRIN	COAL	4.5		ELEVATION OF HERRIN = 151

MAPID: 00500780000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.540157 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.855773 **DATE COLLECTED:** 12 / 0 / 1958

SURFACE ELEVATION (FT.): 538.0 **LOGGED (FT.):** 381.0 **LOG TYPE:** Electric Log

SOURCE: GLASS, THEO G. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
209.0	MODESTO	PIASA	LIMESTONE	4.5	329.0	
204.5	MODESTO		UNCLASSIFIED	5.0	333.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
199.5	CARBONDALE		UNCLASSIFIED	18.5	338.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
181.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	357.0	
171.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	366.5	
168.5	CARBONDALE		UNCLASSIFIED	3.0	369.5	SHALE ABOVE BRERETON LIMESTONE
165.5	CARBONDALE	BRERETON	LIMESTONE	2.0	372.5	
163.5	CARBONDALE	ANNA	BLACK SHALE	1.5	374.5	
162.0	CARBONDALE	HERRIN	COAL	5.0	376.0	

MAPID: 00501075000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.535526 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.857489 **DATE COLLECTED:** 11 / 0 / 1941
SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 393.0 **LOG TYPE:** Electric Log
SOURCE: BOOTH & WOOSLEY **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
159.0	CARBONDALE	BRERETON	LIMESTONE	6.0	380.0	
153.0	CARBONDALE	HERRIN	COAL	7.0	386.0	

MAPID: 00501076000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 415' W line of NE SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.535049 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.850165 **DATE COLLECTED:** 2 / 0 / 1955
SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Electric Log
SOURCE: JANSEN VIOLA L **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	CARBONDALE	HERRIN	COAL	8.0	404.0	

MAPID: 00523086000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 460' S line, 185' E line of SW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.527876 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.852154 **DATE COLLECTED:** 7 / 11 / 1974
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL IB-837 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.5	CARBONDALE	HERRIN	COAL	6.8	331.5	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523087000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 375' S line, 880' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.537938 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.844888 **DATE COLLECTED:** 4 / 24 / 1969
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 434.9 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-213 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
128.3	CARBONDALE	HERRIN	COAL	7.6	416.7	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523088000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 400' N line, 150' W line of NW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.531476 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.857194 **DATE COLLECTED:** 10 / 14 / 1969
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 335.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-296 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
157.4	CARBONDALE	HERRIN	COAL	7.1	322.6	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500054000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.549418 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.850493 **DATE COLLECTED:** 0 / 0 / 1911
SURFACE ELEVATION (FT.): 498.7 **LOGGED (FT.):** 2149.0 **LOG TYPE:**
SOURCE: PRODUCEROC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
128.7	CARBONDALE	HERRIN	COAL	8.0	370.0	

MAPID: 00500263000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542538 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.857655 **DATE COLLECTED:** 1 / 0 / 1955

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: DUNNILL JOHN E **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
207.0	MODESTO	PIASA	LIMESTONE	4.0	355.0	
203.0	MODESTO		UNCLASSIFIED	6.0	359.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
197.0	CARBONDALE		UNCLASSIFIED	22.0	365.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
175.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	387.0	
166.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	395.5	
163.5	CARBONDALE		UNCLASSIFIED	3.0	398.5	SHALE ABOVE BRERETON LIMESTONE
160.5	CARBONDALE	BRERETON	LIMESTONE	2.0	401.5	
158.5	CARBONDALE	ANNA	BLACK SHALE	2.5	403.5	
156.0	CARBONDALE	HERRIN	COAL	4.0	406.0	

MAPID: 00500781000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542444 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.854008 **DATE COLLECTED:** 11 / 0 / 1958

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 374.0 **LOG TYPE:** Electric Log

SOURCE: GLASS, THEO G. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
207.1	MODESTO	PIASA	LIMESTONE	3.0	319.9	
204.1	MODESTO		UNCLASSIFIED	7.0	322.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
197.1	CARBONDALE		UNCLASSIFIED	20.5	329.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
176.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	350.4	
170.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8	356.9	
166.3	CARBONDALE		UNCLASSIFIED	3.8	360.7	SHALE ABOVE BRERETON LIMESTONE
162.5	CARBONDALE	BRERETON	LIMESTONE	3.0	364.5	
159.5	CARBONDALE	ANNA	BLACK SHALE	2.5	367.5	
157.0	CARBONDALE	HERRIN	COAL	4.0	370.0	

MAPID: 00500781000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542444 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.854008 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 376.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	MODESTO	PIASA	LIMESTONE	3.0	322.0	
202.0	MODESTO		SHALE	15.0	325.0	
187.0	CARBONDALE	DANVILLE	COAL	2.5	340.0	
184.5	CARBONDALE		SHALE	6.5	342.5	
178.0	CARBONDALE		SHALE	6.0	349.0	
172.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	355.0	LOWER BENCH
168.0	CARBONDALE	LAWSON	SHALE	8.0	359.0	
160.0	CARBONDALE	BRERETON	LIMESTONE	2.0	367.0	
158.0	CARBONDALE	ANNA	BLACK SHALE	1.0	369.0	
157.0	CARBONDALE	HERRIN	COAL	6.0	370.0	

MAPID: 00500782000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.544922 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.857709 **DATE COLLECTED:** 9 / 0 / 1958

SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 425.0 **LOG TYPE:** Electric Log

SOURCE: GLASS, THEO G. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
196.0	MODESTO	PIASA	LIMESTONE	4.0	372.0	
192.0	MODESTO		UNCLASSIFIED	4.0	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
188.0	CARBONDALE	DANVILLE	COAL	1.5	380.0	
186.5	CARBONDALE		UNCLASSIFIED	17.5	381.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
169.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	399.0	
163.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	405.0	
159.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	409.0	
158.0	CARBONDALE		UNCLASSIFIED	5.0	410.0	SHALE ABOVE BRERETON LIMESTONE
153.0	CARBONDALE	BRERETON	LIMESTONE	4.0	415.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	2.0	419.0	
147.0	CARBONDALE	HERRIN	COAL	4.0	421.0	

MAPID: 00500783000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.542491 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.855827 **DATE COLLECTED:** 9 / 0 / 1958
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Electric Log
SOURCE: GLASS, THEO G. **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
267.0	MODESTO	PIASA	LIMESTONE	2.0	309.0	
265.0	MODESTO		UNCLASSIFIED	7.0	311.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
258.0	CARBONDALE		UNCLASSIFIED	78.0	318.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
180.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	396.0	
174.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	402.0	
170.5	CARBONDALE		UNCLASSIFIED	3.5	405.5	SHALE ABOVE BRERETON LIMESTONE
167.0	CARBONDALE	BRERETON	LIMESTONE	4.0	409.0	
163.0	CARBONDALE	ANNA	BLACK SHALE	3.0	413.0	
160.0	CARBONDALE	HERRIN	COAL	4.0	416.0	

MAPID: 00521873000C **VERSION:** 1 **PROJECT:** ISGS96

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 2400' S line, 3400' W line of NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.548227 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.858009 **DATE COLLECTED:** 4 / 17 / 1974
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 403.6 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY IB-822 **WELL TYPE:** Coal Test
COMMENT: LOCATION UNCLEAR, CLEAREST NOTES USED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
126.0	CARBONDALE	HERRIN	COAL	7.2	374.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	COAL	0.3		TOTAL IN-SEAM PARTINGS, SEE LOG

MAPID: 00521873000C **VERSION:** 2 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 2400' S line, 3400' W line of NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.548227 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.858009 **DATE COLLECTED:** 6 / 10 / 1974
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 403.5 **LOG TYPE:** Survey Core Study
SOURCE: CARTER OIL COMPANY 1B-822 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.6	373.9	REMOVED BY CO.
-	CARBONDALE	SPRINGFIELD	COAL	0.0	391.9	

MAPID: 00523089000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 248' S line, 1348' E line of NE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.545894 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.848366 **DATE COLLECTED:** 8 / 20 / 1969
SURFACE ELEVATION (FT.): 547.6 **LOGGED (FT.):** 436.3 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-260 **WELL TYPE:** Coal Test
COMMENT: NON-STANDARD SECTION SIZE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
124.6	CARBONDALE	HERRIN	COAL	7.1	423.0	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500604000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.568162 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.850915 **DATE COLLECTED:** 7 / 0 / 1943
SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 392.0 **LOG TYPE:** Electric Log
SOURCE: AETNA OIL CO. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
213.0	MODESTO	PIASA	LIMESTONE	6.0	338.0	
207.0	MODESTO		UNCLASSIFIED	5.0	344.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
202.0	CARBONDALE		UNCLASSIFIED	20.0	349.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
182.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	369.0	
174.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	377.0	
172.0	CARBONDALE		UNCLASSIFIED	2.0	379.0	SHALE ABOVE BRERETON LIMESTONE
170.0	CARBONDALE	BRERETON	LIMESTONE	3.0	381.0	
167.0	CARBONDALE	ANNA	BLACK SHALE	3.0	384.0	
164.0	CARBONDALE	HERRIN	COAL	5.0	387.0	

MAPID: 00523090000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 26' S line, 66' W line of SW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.569123 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.851922 **DATE COLLECTED:** 1 / 28 / 1970
SURFACE ELEVATION (FT.): 547.0 **LOGGED (FT.):** 107.5 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL 2-M-1 **WELL TYPE:** Coal Test
COMMENT: WATER TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
547.0			UNCLASSIFIED	107.5	0.0	

MAPID: 00523091000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 42' N line, 471' E line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.561924 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.858891 **DATE COLLECTED:** 5 / 6 / 1970
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 107.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL 2-M-4 **WELL TYPE:** Coal Test
COMMENT: WATER TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
545.0			UNCLASSIFIED	107.0	0.0	

MAPID: 00523092000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 31' N line, 1196' E line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.564487 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.858986 **DATE COLLECTED:** 5 / 7 / 1970
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 90.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL 2-M-5 **WELL TYPE:** Coal Test
COMMENT: WATER

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
545.0			UNCLASSIFIED	90.0	0.0	

MAPID: 00523093000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 50' N line, 368' W line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.563604 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.858912 **DATE COLLECTED:** 5 / 12 / 1970
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 106.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL 2-M-6 **WELL TYPE:** Coal Test
COMMENT: WATER TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
545.0			UNCLASSIFIED	106.0	0.0	

MAPID: 00523094000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:**
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570941 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.854394 **DATE COLLECTED:** 5 / 13 / 1971
SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 529.5 **LOG TYPE:** Other Core Study
SOURCE: MONTEREY COAL CO. 2-M-7 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
167.3	CARBONDALE	HERRIN	COAL	6.7	378.7	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG
125.6	CARBONDALE	SPRINGFIELD	COAL	1.5	420.4	

MAPID: 00523095000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:**
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.570147 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.85501 **DATE COLLECTED:** 5 / 6 / 1971
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 432.5 **LOG TYPE:** Other Core Study
SOURCE: MONTEREY COAL CO. 2-M-8 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
166.5	CARBONDALE	HERRIN	COAL	7.2	378.5	
124.1	CARBONDALE	BRIAR HILL	COAL	0.6	420.9	

MAPID: 00523096000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:**
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.572507 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.856257 **DATE COLLECTED:** 5 / 28 / 1971
SURFACE ELEVATION (FT.): 544.6 **LOGGED (FT.):** 430.2 **LOG TYPE:** Other Core Study
SOURCE: MONTEREY COAL CO. 2-M-9 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
173.8	CARBONDALE	HERRIN	COAL	6.6	370.8	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	1.1		TOTAL IN-SEAM PARTINGS-SEE LOG
131.1	CARBONDALE	SPRINGFIELD	COAL	0.7	413.5	

MAPID: 00523097000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 40' S line, 4' W line of NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.569342 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.851966 **DATE COLLECTED:** 8 / 20 / 1971
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 391.7 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL IB-493 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
156.0	CARBONDALE	HERRIN	COAL	7.0	384.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523098000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 61' S line, 34' E line of NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.560159 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.851794 **DATE COLLECTED:** 11 / 25 / 1968
SURFACE ELEVATION (FT.): 544.8 **LOGGED (FT.):** 419.4 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-202 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
137.1	CARBONDALE	HERRIN	COAL	6.8	407.7	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523099000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 59' N line, 39' E line of NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.574335 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.859154 **DATE COLLECTED:** 5 / 6 / 1969
SURFACE ELEVATION (FT.): 543.2 **LOGGED (FT.):** 0.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-319 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
192.3	CARBONDALE	HERRIN	COAL	7.0	350.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523100000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 26' N line, 40' E line of SW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.57425 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.855574 **DATE COLLECTED:** 2 / 5 / 1970
SURFACE ELEVATION (FT.): 543.6 **LOGGED (FT.):** 390.1 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-331 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
178.1	CARBONDALE	HERRIN	COAL	7.1	365.5	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523129000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.577531 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.852977 **DATE COLLECTED:** 5 / 1 / 1981
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 389.5 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-514 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
177.7	CARBONDALE	HERRIN	COAL	7.0	367.3	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500025000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.598161 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.858894 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 547.7 **LOGGED (FT.):** 2060.0 **LOG TYPE:**
SOURCE: OHIO OIL 0001 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
222.7	CARBONDALE	HERRIN	COAL	5.0	325.0	CORRELATION UNCERTAIN
102.7	CARBONDALE		COAL	5.0	445.0	C71 CORRELATED AS #5; PROB. #2

MAPID: 00500025000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.598161 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.858894 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 330.0 **LOG TYPE:** Drillers Log
SOURCE: OHIO OIL CO., THE **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
227.0	CARBONDALE	ANNA	BLACK SHALE	4.0	321.0	
223.0	CARBONDALE	HERRIN	COAL	5.0	325.0	

MAPID: 00501341000C **VERSION:** 1 **PROJECT:** ISGS96

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 67' S line, 56' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.599067 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.845341 **DATE COLLECTED:** 5 / 25 / 1967
SURFACE ELEVATION (FT.): 542.2 **LOGGED (FT.):** 346.0 **LOG TYPE:** Other Core Study
SOURCE: HUMBLE OIL CO. WF-27 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
207.9	CARBONDALE	HERRIN	COAL	6.4	334.3	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.0		TOTAL IN-SEAM PARTINGS, SEE LOG

MAPID: 00501341000C **VERSION:** 2 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 67' S line, 56' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.599067 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.845341 **DATE COLLECTED:** 12 / 5 / 1968
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 346.0 **LOG TYPE:** Survey Core Study
SOURCE: HUMBLE OIL CO. WF-27 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-				-		COAL REPORTED ABOVE CORE AT 334'

MAPID: 00523101000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 38' N line, 52' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.599278 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.859729 **DATE COLLECTED:** 2 / 12 / 1970
SURFACE ELEVATION (FT.): 542.6 **LOGGED (FT.):** 288.0 **LOG TYPE:** Multiple log types
SOURCE: CARTER OIL 2-M-3 **WELL TYPE:** Coal Test
COMMENT: WATER TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
542.6			UNCLASSIFIED	288.0	0.0	

MAPID: 00523102000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** SE SE NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.57942 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.85623 **DATE COLLECTED:** 5 / 7 / 1981
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 380.6 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-515 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
189.0	CARBONDALE	HERRIN	COAL	7.1	355.0	

MAPID: 00523103000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NE SE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.578701 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.848327 **DATE COLLECTED:** 5 / 11 / 1981
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-517 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
160.1	CARBONDALE	HERRIN	COAL	7.1	384.9	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523104000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 40' N line, 60' W line of NE NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.583788 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.859418 **DATE COLLECTED:** 7 / 29 / 1974
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 362.6 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL IB-843 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
206.3	CARBONDALE	HERRIN	COAL	7.0	337.7	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523105000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 61' N line, 1041' E line of NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.59283 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.859539 **DATE COLLECTED:** 7 / 23 / 1969
SURFACE ELEVATION (FT.): 539.4 **LOGGED (FT.):** 346.3 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-246 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
209.4	CARBONDALE	HERRIN	COAL	5.3	330.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.4		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523106000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 65' S line, 18' E line of SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.57857 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.844923 **DATE COLLECTED:** 8 / 26 / 1969
SURFACE ELEVATION (FT.): 543.9 **LOGGED (FT.):** 369.3 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-264 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
191.8	CARBONDALE	HERRIN	COAL	6.8	352.1	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523107000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 54' N line, 296' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.598413 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.859667 **DATE COLLECTED:** 12 / 3 / 1969
SURFACE ELEVATION (FT.): 538.8 **LOGGED (FT.):** 340.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-316 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
220.5	CARBONDALE	HERRIN	COAL	6.6	318.3	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523108000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** NE NE NE SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.587673 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.837443 **DATE COLLECTED:** 5 / 15 / 1981
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 415.8 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-519 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
159.2	CARBONDALE	HERRIN	COAL	6.4	388.8	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523109000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 5' S line, 110' W line of NW NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.598829 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.841487 **DATE COLLECTED:** 5 / 13 / 1974
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 386.1 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL IB-823 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
201.0	CARBONDALE	HERRIN	COAL	7.1	339.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523110000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 171' N line, 615' W line of NE NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.581503 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.84433 **DATE COLLECTED:** 8 / 7 / 1969

SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 403.5 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL WF-254 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
155.6	CARBONDALE	HERRIN	COAL	6.1	387.4	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.5		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500055000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** NW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.56677 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.842611 **DATE COLLECTED:** 0 / 0 / 1910

SURFACE ELEVATION (FT.): 527.4 **LOGGED (FT.):** 1226.0 **LOG TYPE:**

SOURCE: FINLEY 0001 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
147.4	CARBONDALE	HERRIN	COAL	7.0	380.0	

MAPID: 00500055000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** NW NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.56677 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.842611 **DATE COLLECTED:** 0 / 0 / 1910

SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 387.0 **LOG TYPE:** Drillers Log

SOURCE: FINLEY D T **WELL TYPE:** Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
150.0	CARBONDALE	ANNA	BLACK SHALE	3.0	377.0	
147.0	CARBONDALE	HERRIN	COAL	7.0	380.0	

MAPID: 00521875000C **VERSION:** 1 **PROJECT:** ISGS96

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 79' S line, 12' E line of NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.559716 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.837138 **DATE COLLECTED:** 4 / 30 / 1974
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 467.7 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY IB-824 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
132.3	CARBONDALE	HERRIN	COAL	6.9	427.7	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS, SEE LOG

MAPID: 00521875000C **VERSION:** 2 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 79' S line, 12' E line of NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.559716 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.837138 **DATE COLLECTED:** 5 / 28 / 1974
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 466.8 **LOG TYPE:** Survey Core Study
SOURCE: CARTER OIL COMPANY 1B-824 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	SHELBURN	DANVILLE	COAL	1.0	401.0	GAP 409'-436.8'

MAPID: 00522214000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 100' N line, 1050' W line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.574782 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.844373 **DATE COLLECTED:** 10 / 5 / 1979
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL COMPANY IB-510 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
154.8	CARBONDALE	HERRIN	COAL	6.6	385.2	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.6		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523111000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** SE SE SE NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.569547 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.837613 **DATE COLLECTED:** 5 / 13 / 1981
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 440.5 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-518 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
136.0	CARBONDALE	HERRIN	COAL	6.7	414.0	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523112000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 400' N line, 84' W line of NW NE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.568826 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.843399 **DATE COLLECTED:** 4 / 23 / 1969
SURFACE ELEVATION (FT.): 525.4 **LOGGED (FT.):** 402.8 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-211 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
141.6	CARBONDALE	HERRIN	COAL	6.9	383.8	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523113000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 53' S line, 88' W line of SW SW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.577675 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.830106 **DATE COLLECTED:** 5 / 20 / 1969
SURFACE ELEVATION (FT.): 563.0 **LOGGED (FT.):** 446.3 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-230 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.6	CARBONDALE	HERRIN	COAL	6.8	427.4	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523114000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.544406 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.835637 **DATE COLLECTED:** 5 / 7 / 1981
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 491.0 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-516 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
112.5	CARBONDALE	HERRIN	COAL	6.7	463.5	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG\

MAPID: 00523115000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 1447' S line, 1157' W line of NW
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.555656 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.840822 **DATE COLLECTED:** 5 / 5 / 1969
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 456.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-218 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
119.2	CARBONDALE	HERRIN	COAL	7.3	438.8	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500741000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 990' N line, 330' E line
QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.523501 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.840695 **DATE COLLECTED:** 11 / 0 / 1957
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 352.5 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
170.0	MODESTO	PIASA	LIMESTONE	3.0	302.0	
167.0	MODESTO		UNCLASSIFIED	5.5	305.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
161.5	CARBONDALE	DANVILLE	COAL	1.5	310.5	
160.0	CARBONDALE		UNCLASSIFIED	18.0	312.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
142.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	330.0	
134.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	338.0	
131.0	CARBONDALE		UNCLASSIFIED	3.0	341.0	SHALE ABOVE BRERETON LIMESTONE
128.0	CARBONDALE	BRERETON	LIMESTONE	1.5	344.0	
126.5	CARBONDALE	ANNA	BLACK SHALE	2.5	345.5	
124.0	CARBONDALE	HERRIN	COAL	4.5	348.0	

MAPID: 00500741000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 990' N line, 330' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.523501 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.840695 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 356.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
135.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	337.0	
130.0	CARBONDALE	LAWSON	SHALE	5.0	342.0	
125.0	CARBONDALE	BRERETON	LIMESTONE	3.0	347.0	
122.0	CARBONDALE	HERRIN	COAL	6.0	350.0	

MAPID: 00523116000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 30' N line, 50' W line of NW SE NE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.526802 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.839759 **DATE COLLECTED:** 11 / 22 / 1968

SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 361.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL WF-201 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
120.6	CARBONDALE	HERRIN	COAL	6.9	348.4	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	0.3		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523117000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** SW NE NW SW

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.537968 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.835021 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 448.3 **LOG TYPE:** Company map

SOURCE: CARTER OIL WF-286 **WELL TYPE:** Coal Test

COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.3	441.0	

MAPID: 00500277000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.504728 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.831112 **DATE COLLECTED:** 6 / 0 / 1955

SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 364.0 **LOG TYPE:** Electric Log

SOURCE: RICHARDSON E V **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
164.0	CARBONDALE		UNCLASSIFIED	17.0	324.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
147.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	341.0	
138.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	350.0	
135.0	CARBONDALE		UNCLASSIFIED	2.0	353.0	SHALE ABOVE BRERETON LIMESTONE
133.0	CARBONDALE	BRERETON	LIMESTONE	3.0	355.0	
130.0	CARBONDALE	ANNA	BLACK SHALE	2.0	358.0	
128.0	CARBONDALE	HERRIN	COAL	4.0	360.0	

MAPID: 00501467000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** 1650' N line, 2310' E line

QUADRANGLE: POCAHONTAS **LONGITUDE:** -89.511824 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.838624 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 346.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
167.0	CARBONDALE		LIMESTONE W/ SHALE	25.0	301.0	
142.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	326.0	LOWER BENCH
137.0	CARBONDALE	LAWSON	SHALE	7.0	331.0	
130.0	CARBONDALE	BRERETON	LIMESTONE	3.0	338.0	
127.0	CARBONDALE	HERRIN	COAL	5.0	341.0	

MAPID: 00500444000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 2310' S line, 2310' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.495456 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.834516 **DATE COLLECTED:** 6 / 0 / 1956

SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 346.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
177.0	MODESTO	PIASA	LIMESTONE	4.0	298.0	
173.0	MODESTO		UNCLASSIFIED	7.0	302.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
166.0	CARBONDALE		UNCLASSIFIED	16.0	309.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	325.0	
144.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	331.0	
141.0	CARBONDALE		UNCLASSIFIED	3.0	334.0	SHALE ABOVE BRERETON LIMESTONE
138.0	CARBONDALE	BRERETON	LIMESTONE	2.0	337.0	
136.0	CARBONDALE	ANNA	BLACK SHALE	2.0	339.0	
134.0	CARBONDALE	HERRIN	COAL	5.0	341.0	

MAPID: 00500444000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 2310' S line, 2310' W line

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.495456 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.834516 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
145.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	330.0	
140.0	CARBONDALE	LAWSON	SHALE	11.0	335.0	
129.0	CARBONDALE	HERRIN	COAL	4.0	346.0	

MAPID: 00500584000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 420' N line, 330' W line of SW SE

QUADRANGLE: BEAVER CREEK **LONGITUDE:** -89.493088 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.830596 **DATE COLLECTED:** 12 / 0 / 1957

SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 336.0 **LOG TYPE:** Electric Log

SOURCE: HILL J A **WELL TYPE:** Gas Storage Operational Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
188.0	MODESTO	PIASA	LIMESTONE	3.0	288.0	
185.0	MODESTO		UNCLASSIFIED	5.5	291.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
179.5	CARBONDALE	DANVILLE	COAL	1.5	296.5	
178.0	CARBONDALE		UNCLASSIFIED	17.0	298.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
161.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	315.0	
153.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	323.0	
150.5	CARBONDALE		UNCLASSIFIED	2.5	325.5	SHALE ABOVE BRERETON LIMESTONE
148.0	CARBONDALE	BRERETON	LIMESTONE	1.0	328.0	
147.0	CARBONDALE	ANNA	BLACK SHALE	2.0	329.0	
145.0	CARBONDALE	HERRIN	COAL	5.0	331.0	

MAPID: 00500378000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.612856 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.915967 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log

SOURCE: LOPER GARRETT T **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.0		
-	MODESTO		UNCLASSIFIED	5.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	17.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0		

MAPID: 00500662000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:** 2598' N line, 2616' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609478 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.911583 **DATE COLLECTED:** 0 / 0 / 1918
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
221.1	MODESTO	PIASA	LIMESTONE	1.5	340.9	
219.6	MODESTO		UNCLASSIFIED	2.0	342.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
217.6	CARBONDALE	DANVILLE	COAL	0.3	344.4	
217.3	CARBONDALE		UNCLASSIFIED	20.3	344.7	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
197.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	365.0	
188.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	374.0	
185.0	CARBONDALE		UNCLASSIFIED	1.0	377.0	SHALE ABOVE BRERETON LIMESTONE
184.0	CARBONDALE	BRERETON	LIMESTONE	4.0	378.0	
180.0	CARBONDALE	ANNA	BLACK SHALE	1.0	382.0	
179.0	CARBONDALE	HERRIN	COAL	7.0	383.0	

MAPID: 00500662000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:** 2598' N line, 2616' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609478 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.911583 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
220.7	MODESTO	PIASA	LIMESTONE	1.5	341.3	
219.2	MODESTO		DARK GRAY SHALE	2.0	342.8	
217.2	CARBONDALE		DARK GRAY SHALE	5.2	344.8	
212.0	CARBONDALE		DARK GRAY SHALE	7.0	350.0	
205.0	CARBONDALE	ALLENBY	BONE COAL	1.3	357.0	
203.7	CARBONDALE		SHALE	6.7	358.3	
197.0	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	365.0	LOWER BENCH
188.0	CARBONDALE	LAWSON	DARK GRAY SHALE	4.0	374.0	
184.0	CARBONDALE	BRERETON	LIMESTONE	4.0	378.0	
180.0	CARBONDALE	ANNA	BLACK SHALE	1.0	382.0	
179.0	CARBONDALE	HERRIN	COAL	7.0	383.0	

MAPID: 00523030000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:** SE SE SE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609873 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.904593 **DATE COLLECTED:** 6 / 4 / 1981
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 412.0 **LOG TYPE:** Multiple log types
SOURCE: EXXON COAL RESOURCES IB-527 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
152.0	CARBONDALE	HERRIN	COAL	6.0	406.0	TOP/THICKNESS FROM E-LOG; 1":10'

MAPID: 00523118000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:** SE SE SE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609944 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.904592 **DATE COLLECTED:** 6 / 9 / 1981
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 424.9 **LOG TYPE:** Other Core Study
SOURCE: EXXON COAL RESOURCES IB-527-2 **WELL TYPE:** Coal Test
COMMENT: FILE SAYS SECT.1 CO-ORDS GIVE SECT.12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
152.6	CARBONDALE	HERRIN	COAL	4.6	405.4	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.5		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00590005000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 5 **QUARTERS/FOOTAGES:** 906' N line, 600' E line
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.676362 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 38.915247 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 479.0 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. #17 **WELL TYPE:** Coal Test
COMMENT: COAL RIGHTS BOND CO; MAP RETURNED TO CO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
574.0			UNKNOWN	458.0	0.0	
116.0	CARBONDALE		LIMESTONE	4.0	458.0	
112.0	CARBONDALE		CALCAREOUS SHALE	2.5	462.0	
109.5	CARBONDALE		BLACK SHALE	6.0	464.5	
103.5	CARBONDALE		CALCAREOUS SHALE	1.1	470.5	
102.4	CARBONDALE	HERRIN	COAL	6.0	471.6	
96.4	CARBONDALE		UNDERCLAY	1.4	477.6	

MAPID: 00500056000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.629183 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.897271 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 556.5 **LOGGED (FT.):** 402.0 **LOG TYPE:**
SOURCE: DONK BROS 0002 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	UNCLASSIFIED	0.0		

MAPID: 00500056000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.629183 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.897271 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	5.0		
-	MODESTO		UNCLASSIFIED	4.5		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	9.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE

MAPID: 00522215000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 11 **QUARTERS/FOOTAGES:** 100' S line, 2900' W line
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.626936 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.889096 **DATE COLLECTED:** 9 / 14 / 1979
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 441.7 **LOG TYPE:** Gamma Ray Density
SOURCE: CARTER OIL COMPANY IB-505 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
137.2	CARBONDALE	HERRIN	COAL	2.5	419.8	E-LOG SCALE 1"=2'
134.7	CARBONDALE	HERRIN	ROCK	2.5	422.3	
132.2	CARBONDALE	HERRIN	COAL	2.8	424.8	
129.4	CARBONDALE	HERRIN	ROCK	1.4	427.6	
128.0	CARBONDALE	HERRIN	COAL	1.8	429.0	

MAPID: 00500590000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.61271 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.89559 **DATE COLLECTED:** 1 / 0 / 1952

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 414.0 **LOG TYPE:** Electric Log

SOURCE: GILLIAN, J. H. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.0	MODESTO	PIASA	LIMESTONE	4.0	372.0	
176.0	MODESTO		UNCLASSIFIED	6.0	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
170.0	CARBONDALE		UNCLASSIFIED	18.0	382.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
152.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	400.0	
148.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	404.0	
145.0	CARBONDALE	ANNA	BLACK SHALE	3.0	407.0	
142.0	CARBONDALE	HERRIN	COAL	4.0	410.0	

MAPID: 00523119000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 13 **QUARTERS/FOOTAGES:** 109' N line, 36' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.618302 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.888572 **DATE COLLECTED:** 10 / 2 / 1969

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 443.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL WF-288 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
131.5	CARBONDALE	HERRIN	COAL	2.9	423.5	COAL ANALYZED
128.6	CARBONDALE	HERRIN	ROCK	0.4	426.4	
128.2	CARBONDALE	HERRIN	COAL	0.4	426.8	
127.8	CARBONDALE	HERRIN	ROCK	0.3	427.2	
127.4	CARBONDALE	HERRIN	COAL	3.5	427.6	
124.0	CARBONDALE	HERRIN	ROCK	0.7	431.0	
123.3	CARBONDALE	HERRIN	COAL	2.6	431.7	

MAPID: 00523120000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 14 **QUARTERS/FOOTAGES:** 78' S line, 85' W line
QUADRANGLE: GRANTFORK **LONGITUDE:** -89.636643 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.874442 **DATE COLLECTED:** 11 / 7 / 1977
SURFACE ELEVATION (FT.): 553.0 **LOGGED (FT.):** 349.2 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL IB-973 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
210.5	CARBONDALE	HERRIN	COAL	5.2	342.5	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00523121000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 5N 5W **SECTION:** 14 **QUARTERS/FOOTAGES:** 85' S line, 20' W line of SW SW
QUADRANGLE: GRANTFORK **LONGITUDE:** -89.636872 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.874458 **DATE COLLECTED:** 10 / 16 / 1969
SURFACE ELEVATION (FT.): 553.0 **LOGGED (FT.):** 357.6 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-297 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
213.7	CARBONDALE	HERRIN	COAL	7.8	339.3	CLEAN COAL, SEE LOG; COAL ANALYZED
-	CARBONDALE	HERRIN	ROCK	1.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500172000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.305342 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.990794 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 582.0 **LOGGED (FT.):** 1029.0 **LOG TYPE:**
SOURCE: MAGNOLIA, ELAM JOEL 5 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
122.0	CARBONDALE	HERRIN	COAL	-	460.0	

MAPID: 00500173000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.310082 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.996257 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 603.0 **LOGGED (FT.):** 1049.0 **LOG TYPE:**
SOURCE: MAGNOLIA, GRIGG W H 7 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
434.0	BOND	CARTHAGE	LIMESTONE	-	169.0	
118.0	CARBONDALE	HERRIN	COAL	-	485.0	

MAPID: 00500209000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 2310' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.303036 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.990793 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 1018.0 **LOG TYPE:**
SOURCE: HAUSMANN A, DURR E 003A **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
130.0	CARBONDALE	HERRIN	COAL	-	449.0	

MAPID: 00500209000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 2310' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.303036 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.990793 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 454.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
167.0	MODESTO	PIASA	LIMESTONE	3.0	412.0	
164.0	CARBONDALE		SHALE	19.0	415.0	
145.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.5	434.0	LOWER BENCH
139.5	CARBONDALE	LAWSON	SHALE	5.0	439.5	
134.5	CARBONDALE	BRERETON	LIMESTONE	4.0	444.5	
131.0	CARBONDALE	HERRIN	BLACK SHALE	6.0	448.0	

MAPID: 00500268000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.310116 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.998187 **DATE COLLECTED:** 6 / 0 / 1955

SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 497.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
151.0	MODESTO	PIASA	LIMESTONE	5.0	453.0	
146.0	MODESTO		UNCLASSIFIED	7.0	458.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.0	CARBONDALE	DANVILLE	COAL	1.5	465.0	
137.5	CARBONDALE		UNCLASSIFIED	14.0	466.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
123.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	480.5	
118.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	486.0	
116.0	CARBONDALE		UNCLASSIFIED	2.0	488.0	SHALE ABOVE BRERETON LIMESTONE
114.0	CARBONDALE	BRERETON	LIMESTONE	1.0	490.0	
113.0	CARBONDALE	ANNA	BLACK SHALE	2.0	491.0	
111.0	CARBONDALE	HERRIN	COAL	4.0	493.0	

MAPID: 00500792000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 480' S line, 330' E line of SW SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.310011 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.991205 **DATE COLLECTED:** 2 / 0 / 1959

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 474.0 **LOG TYPE:** Electric Log

SOURCE: JENNEMAN E E **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.5	MODESTO	PIASA	LIMESTONE	3.5	435.5	
158.0	MODESTO		UNCLASSIFIED	4.0	439.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
154.0	CARBONDALE	DANVILLE	COAL	2.0	443.0	
152.0	CARBONDALE		UNCLASSIFIED	12.0	445.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
140.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	457.0	
135.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	462.0	
133.5	CARBONDALE		UNCLASSIFIED	1.5	463.5	SHALE ABOVE BRERETON LIMESTONE
132.0	CARBONDALE	BRERETON	LIMESTONE	1.0	465.0	
131.0	CARBONDALE	ANNA	BLACK SHALE	3.0	466.0	
128.0	CARBONDALE	HERRIN	COAL	5.0	469.0	

MAPID: 00501085000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 990' S line, 330' W line of SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.303031 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.992615 **DATE COLLECTED:** 9 / 0 / 1954

SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 450.0 **LOG TYPE:** Electric Log

SOURCE: PARKER BROS DRLG **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
166.0	MODESTO	PIASA	LIMESTONE	4.0	406.0	
162.0	MODESTO		UNCLASSIFIED	7.0	410.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
155.0	CARBONDALE		UNCLASSIFIED	16.0	417.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
139.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	433.0	
132.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	440.0	
130.0	CARBONDALE		UNCLASSIFIED	2.0	442.0	SHALE ABOVE BRERETON LIMESTONE
128.0	CARBONDALE	BRERETON	LIMESTONE	1.0	444.0	
127.0	CARBONDALE	ANNA	BLACK SHALE	1.0	445.0	
126.0	CARBONDALE	HERRIN	COAL	4.0	446.0	

MAPID: 00501089000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.305386 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.994438 **DATE COLLECTED:** 2 / 0 / 1955

SURFACE ELEVATION (FT.): 581.0 **LOGGED (FT.):** 457.5 **LOG TYPE:** Electric Log

SOURCE: JENNEMAN & SCHWARTZ **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
170.0	MODESTO	PIASA	LIMESTONE	4.0	411.0	
166.0	MODESTO		UNCLASSIFIED	9.5	415.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
156.5	CARBONDALE	DANVILLE	COAL	2.0	424.5	
154.5	CARBONDALE		UNCLASSIFIED	11.5	426.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
143.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	438.0	
137.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	444.0	
135.5	CARBONDALE		UNCLASSIFIED	1.5	445.5	SHALE ABOVE BRERETON LIMESTONE
134.0	CARBONDALE	BRERETON	LIMESTONE	3.5	447.0	
130.5	CARBONDALE	ANNA	BLACK SHALE	3.5	450.5	
127.0	CARBONDALE	HERRIN	COAL	3.5	454.0	

MAPID: 00501093000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.305428 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.998248 **DATE COLLECTED:** 1 / 0 / 1955

SURFACE ELEVATION (FT.): 591.0 **LOGGED (FT.):** 477.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
160.0	MODESTO	PIASA	LIMESTONE	4.0	431.0	
156.0	MODESTO		UNCLASSIFIED	7.0	435.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
149.0	CARBONDALE	DANVILLE	COAL	2.5	442.0	
146.5	CARBONDALE		UNCLASSIFIED	13.5	444.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
133.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	458.0	
128.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	463.0	
126.5	CARBONDALE		UNCLASSIFIED	1.5	464.5	SHALE ABOVE BRERETON LIMESTONE
125.0	CARBONDALE	BRERETON	LIMESTONE	3.0	466.0	
122.0	CARBONDALE	ANNA	BLACK SHALE	4.0	469.0	
118.0	CARBONDALE	HERRIN	COAL	4.0	473.0	

MAPID: 00501095000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 990' S line, 330' W line of SE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.298368 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.992618 **DATE COLLECTED:** 11 / 0 / 1954

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

SOURCE: JENNEMAN E E **WELL TYPE:** Plugged and/or Abandoned

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	8.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	2.0		
-	CARBONDALE		UNCLASSIFIED	13.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 119

MAPID: 00501096000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 990' E line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.298405 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.998341 **DATE COLLECTED:** 2 / 0 / 1955

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 448.5 **LOG TYPE:** Electric Log

SOURCE: JENNEMAN E E **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
145.1	MODESTO	PIASA	LIMESTONE	4.0	402.9	
141.1	MODESTO		UNCLASSIFIED	8.0	406.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.1	CARBONDALE	DANVILLE	COAL	2.0	414.9	
131.1	CARBONDALE		UNCLASSIFIED	12.5	416.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
118.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	3.5	429.4	
115.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	432.9	
112.8	CARBONDALE		UNCLASSIFIED	2.3	435.2	SHALE ABOVE BRERETON LIMESTONE
110.5	CARBONDALE	BRERETON	LIMESTONE	3.5	437.5	
107.0	CARBONDALE	ANNA	BLACK SHALE	4.0	441.0	
103.0	CARBONDALE	HERRIN	COAL	3.5	445.0	

MAPID: 00501097000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 3 **QUARTERS/FOOTAGES:** 200' N line, 380' W line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.302922 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.998641 **DATE COLLECTED:** 12 / 0 / 1954

SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 480.0 **LOG TYPE:** Electric Log

SOURCE: LARSEN ARTHUR **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.0	MODESTO	PIASA	LIMESTONE	3.0	437.0	
145.0	MODESTO		UNCLASSIFIED	5.5	440.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.5	CARBONDALE	DANVILLE	COAL	2.5	445.5	
137.0	CARBONDALE		UNCLASSIFIED	12.0	448.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
125.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	460.0	
121.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	464.0	
118.5	CARBONDALE		UNCLASSIFIED	2.5	466.5	SHALE ABOVE BRERETON LIMESTONE
116.0	CARBONDALE	BRERETON	LIMESTONE	4.0	469.0	
112.0	CARBONDALE	ANNA	BLACK SHALE	4.0	473.0	
108.0	CARBONDALE	HERRIN	COAL	3.0	477.0	

MAPID: 00500336000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.314786 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.998134 **DATE COLLECTED:** 8 / 0 / 1955

SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 514.0 **LOG TYPE:** Electric Log

SOURCE: RANDALL DON **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.0	MODESTO	PIASA	LIMESTONE	3.0	466.0	
131.0	MODESTO		UNCLASSIFIED	8.0	469.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
123.0	CARBONDALE	DANVILLE	COAL	2.5	477.0	
120.5	CARBONDALE		UNCLASSIFIED	14.5	479.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
106.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	494.0	
102.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	498.0	
99.0	CARBONDALE		UNCLASSIFIED	3.0	501.0	SHALE ABOVE BRERETON LIMESTONE
96.0	CARBONDALE	BRERETON	LIMESTONE	2.5	504.0	
93.5	CARBONDALE	ANNA	BLACK SHALE	4.5	506.5	
89.0	CARBONDALE	HERRIN	COAL	3.0	511.0	

MAPID: 00500256000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.363818 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.997716 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 462.0 **LOG TYPE:** Electric Log

SOURCE: VAUGHN JOS R **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
170.0	MODESTO	PIASA	LIMESTONE	4.0	423.0	
166.0	MODESTO		UNCLASSIFIED	3.0	427.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
163.0	CARBONDALE	DANVILLE	COAL	2.5	430.0	
160.5	CARBONDALE		UNCLASSIFIED	12.5	432.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
148.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	445.0	
143.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	450.0	
140.5	CARBONDALE		UNCLASSIFIED	2.5	452.5	SHALE ABOVE BRERETON LIMESTONE
138.0	CARBONDALE	BRERETON	LIMESTONE	1.0	455.0	
137.0	CARBONDALE	ANNA	BLACK SHALE	2.0	456.0	
135.0	CARBONDALE	HERRIN	COAL	4.0	458.0	

MAPID: 00500010000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 450' S line, 330' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.352042 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.976458 **DATE COLLECTED:** 6 / 30 / 1913

SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 399.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
536.0			UNCONSOLIDATED	56.0	0.0	
480.0			ROCK	96.5	56.0	
383.5			COAL WITH SHALE	2.5	152.5	COAL AND SH. MIXED
381.0			ROCK	211.0	155.0	
170.0			SHALE	10.5	366.0	
159.5			CHERT	0.5	376.5	
159.0			SHALE	3.0	377.0	
156.0			LIMESTONE	6.5	380.0	
149.5			SHALE	3.6	386.5	
145.9			LIMESTONE	0.5	390.1	
145.4			BLACK SHALE	0.8	390.6	
144.6	CARBONDALE	HERRIN	COAL	5.8	391.4	
138.8			ROCK	1.8	397.2	

MAPID: 00500010000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 450' S line, 330' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.352042 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.976458 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 396.8 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
180.0	MODESTO	PIASA	LIMESTONE	2.5	356.0	
177.5	CARBONDALE		SHALE	15.5	358.5	
162.0	CARBONDALE		DARK GRAY SHALE	1.0	374.0	
161.0	CARBONDALE		DARK GRAY SHALE	3.0	375.0	
158.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.5	378.0	LOWER BENCH
151.5	CARBONDALE	LAWSON	CALCAREOUS SHALE	3.6	384.5	
147.9	CARBONDALE	BRERETON	LIMESTONE	0.5	388.1	
147.4	CARBONDALE	ANNA	BLACK SHALE	0.8	388.6	
145.0	CARBONDALE	HERRIN	COAL	5.8	391.0	

MAPID: 00500010000C **VERSION:** 3 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 450' S line, 330' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.352042 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.976458 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 536.1 **LOGGED (FT.):** 399.0 **LOG TYPE:**
SOURCE: PEABODY CC 7, VECK LOGAN **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
450.1	BOND	CARTHAGE	LIMESTONE	-	86.0	
145.1	CARBONDALE	HERRIN	COAL	5.8	391.0	

MAPID: 00500010000C **VERSION:** 4 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 7 **QUARTERS/FOOTAGES:** 450' S line, 330' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.352042 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.976458 **DATE COLLECTED:** 6 / 0 / 1913
SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 396.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.4	MODESTO	PIASA	LIMESTONE	2.5	355.6	
177.9	MODESTO		UNCLASSIFIED	7.5	358.1	INTERVAL ABOVE DANVILLE, BELOW PIASA
170.4	CARBONDALE		UNCLASSIFIED	14.0	365.6	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
156.4	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	379.6	
149.9	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.1	386.1	
147.8	CARBONDALE		UNCLASSIFIED	1.5	388.2	SHALE ABOVE BRERETON LIMESTONE
146.3	CARBONDALE	BRERETON	LIMESTONE	0.5	389.7	
145.8	CARBONDALE	ANNA	BLACK SHALE	0.8	390.2	
145.0	CARBONDALE	HERRIN	COAL	5.8	391.0	

MAPID: 00500210000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** NE SW SE
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.319231 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.978065 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 1059.0 **LOG TYPE:**
SOURCE: DORAN PAUL, SMITH LOYD 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
138.0	CARBONDALE	HERRIN	COAL	-	450.0	

MAPID: 00501101000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** 635' S line, 503' E line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.315193 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.984358 **DATE COLLECTED:** 12 / 0 / 1940

SURFACE ELEVATION (FT.): 591.0 **LOGGED (FT.):** 459.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.0	MODESTO	PIASA	LIMESTONE	4.0	418.0	
169.0	MODESTO		UNCLASSIFIED	5.0	422.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
164.0	CARBONDALE		UNCLASSIFIED	14.0	427.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	441.0	
143.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	448.0	
141.0	CARBONDALE		UNCLASSIFIED	2.0	450.0	SHALE ABOVE BRERETON LIMESTONE
139.0	CARBONDALE	BRERETON	LIMESTONE	1.0	452.0	
138.0	CARBONDALE	ANNA	BLACK SHALE	1.0	453.0	
137.0	CARBONDALE	HERRIN	COAL	5.0	454.0	

MAPID: 00501102000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.314489 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.976252 **DATE COLLECTED:** 10 / 0 / 1950

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: HOPKINS, DALE **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.5	MODESTO	PIASA	LIMESTONE	3.5	397.5	
178.0	MODESTO		UNCLASSIFIED	6.0	401.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
172.0	CARBONDALE		UNCLASSIFIED	12.0	407.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
160.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	419.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	423.0	
154.5	CARBONDALE		UNCLASSIFIED	1.5	424.5	SHALE ABOVE BRERETON LIMESTONE
153.0	CARBONDALE	BRERETON	LIMESTONE	4.0	426.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	4.0	430.0	
145.0	CARBONDALE	HERRIN	COAL	3.0	434.0	

MAPID: 00501103000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** 990' S line, 330' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.314509 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.978074 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 449.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.0	MODESTO	PIASA	SHALE	3.5	407.0	
168.5	CARBONDALE		SHALE	22.0	410.5	
146.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	432.5	LOWER BENCH
140.5	CARBONDALE	LAWSON	SHALE	4.0	438.5	
136.5	CARBONDALE	ANNA	SHALE	2.0	442.5	
135.0	CARBONDALE	HERRIN	COAL	5.5	444.0	

MAPID: 00501104000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.314529 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.979885 **DATE COLLECTED:** 11 / 0 / 1950

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Electric Log

SOURCE: HOPKINS, DALE **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
165.6	MODESTO	PIASA	LIMESTONE	2.5	409.4	
163.1	MODESTO		UNCLASSIFIED	3.5	411.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
159.6	CARBONDALE	DANVILLE	COAL	1.5	415.4	
158.1	CARBONDALE		UNCLASSIFIED	16.5	416.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
141.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	433.4	
136.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	438.9	
132.8	CARBONDALE		UNCLASSIFIED	3.3	442.2	SHALE ABOVE BRERETON LIMESTONE
129.5	CARBONDALE	BRERETON	LIMESTONE	1.0	445.5	
128.5	CARBONDALE	ANNA	BLACK SHALE	1.5	446.5	
127.0	CARBONDALE	HERRIN	COAL	4.0	448.0	

MAPID: 00570004000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 9 **QUARTERS/FOOTAGES:** 2270' N line, 390' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.314785 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.983604 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 1010.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 06C177 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
588.0			NO RECORD	10.0	0.0	
578.0			SANDSTONE	115.0	10.0	
463.0			LIMESTONE	5.0	125.0	
458.0			SHALE & SANDSTONE	45.0	130.0	
413.0			SANDSTONE	155.0	175.0	
258.0			SHALY SANDSTONE	35.0	330.0	
223.0			SHALE & SANDSTONE	82.0	365.0	
141.0	CARBONDALE	HERRIN	COAL	8.0	447.0	
133.0			SHALE	175.0	455.0	FOSSIL SHELLS
-42.0			SHALE & SANDSTONE	155.0	630.0	
-197.0			RED SHALE	50.0	785.0	
-247.0			LIMESTONE	35.0	835.0	
-282.0			SHALE	50.0	870.0	
-332.0			SANDSTONE	40.0	920.0	
-372.0			SHALE	18.0	960.0	
-390.0			LIMESTONE	32.0	978.0	

MAPID: 00500179000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** NW NW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.312305 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.988972 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 598.0 **LOGGED (FT.):** 2454.0 **LOG TYPE:**

SOURCE: NAT PET, SPINDLER 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
458.0	BOND	CARTHAGE	LIMESTONE	-	140.0	
135.0	CARBONDALE	HERRIN	COAL	-	463.0	

MAPID: 00500211000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 2310' N line, 2310' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.302982 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.983505 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 1212.0 **LOG TYPE:**
SOURCE: HAUSMANN A, DURR E 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
444.0	BOND	CARTHAGE	LIMESTONE	-	133.0	
129.0	CARBONDALE	HERRIN	COAL	-	448.0	

MAPID: 00500211000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 2310' N line, 2310' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.302982 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.983505 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
169.0	MODESTO	PIASA	LIMESTONE	4.0	408.0	
165.0	CARBONDALE		SHALE	23.0	412.0	
142.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	435.0	LOWER BENCH
135.0	CARBONDALE	LAWSON	SHALE	4.0	442.0	
131.0	CARBONDALE	ANNA	SHALE	2.0	446.0	
129.0	CARBONDALE	HERRIN	COAL	4.0	448.0	

MAPID: 00500212000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** NE SW SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.309862 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.978075 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 1300.0 **LOG TYPE:**
SOURCE: HUDSN&HESS, HUGHEY G K 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.0	CARBONDALE	HERRIN	COAL	-	426.0	

MAPID: 00500213000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** NE SW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.309938 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.985341 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 1023.0 **LOG TYPE:**

SOURCE: NAT PET, SPINDLER 5 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
138.0	CARBONDALE	HERRIN	COAL	-	450.0	

MAPID: 00500469000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.309885 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.979894 **DATE COLLECTED:** 7 / 0 / 1956

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 444.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR, FLETCHER F. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
179.0	MODESTO	PIASA	LIMESTONE	4.0	397.0	
175.0	MODESTO		UNCLASSIFIED	6.0	401.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
169.0	CARBONDALE		UNCLASSIFIED	19.0	407.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	426.0	
144.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	432.0	
142.0	CARBONDALE		UNCLASSIFIED	2.0	434.0	SHALE ABOVE BRERETON LIMESTONE
140.0	CARBONDALE	BRERETON	LIMESTONE	1.0	436.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	3.0	437.0	
136.0	CARBONDALE	HERRIN	COAL	4.0	440.0	

MAPID: 00500470000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.305294 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.985342 **DATE COLLECTED:** 8 / 0 / 1956

SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 454.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR, FLETCHER F. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
168.0	MODESTO	PIASA	LIMESTONE	4.5	412.0	
163.5	MODESTO		UNCLASSIFIED	4.5	416.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
159.0	CARBONDALE	DANVILLE	COAL	2.0	421.0	
157.0	CARBONDALE		UNCLASSIFIED	12.0	423.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
145.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	435.0	
136.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	443.5	
135.0	CARBONDALE		UNCLASSIFIED	1.5	445.0	SHALE ABOVE BRERETON LIMESTONE
133.5	CARBONDALE	BRERETON	LIMESTONE	0.5	446.5	
133.0	CARBONDALE	ANNA	BLACK SHALE	1.0	447.0	
132.0	CARBONDALE	HERRIN	COAL	6.0	448.0	

MAPID: 00500718000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.309925 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.983527 **DATE COLLECTED:** 11 / 0 / 1957

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 449.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR, FLETCHER F. **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
171.1	MODESTO	PIASA	LIMESTONE	4.5	407.9	
166.6	MODESTO		UNCLASSIFIED	5.5	412.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
161.1	CARBONDALE	DANVILLE	COAL	2.0	417.9	
159.1	CARBONDALE		UNCLASSIFIED	13.0	419.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
146.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	432.9	
139.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	439.9	
137.8	CARBONDALE		UNCLASSIFIED	1.3	441.2	SHALE ABOVE BRERETON LIMESTONE
136.5	CARBONDALE	BRERETON	LIMESTONE	1.0	442.5	
135.5	CARBONDALE	ANNA	BLACK SHALE	1.5	443.5	
134.0	CARBONDALE	HERRIN	COAL	4.0	445.0	

MAPID: 00501106000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 350' N line, 330' W line of NE NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.29834 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.988919 **DATE COLLECTED:** 10 / 0 / 1954

SURFACE ELEVATION (FT.): 581.0 **LOGGED (FT.):** 471.0 **LOG TYPE:** Drillers Log

SOURCE: SCHWARTZ MAX **WELL TYPE:** Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
152.0	MODESTO	PIASA	LIMESTONE	5.0	429.0	
147.0	MODESTO		UNCLASSIFIED	6.0	434.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
141.0	CARBONDALE	DANVILLE	COAL	2.0	440.0	
139.0	CARBONDALE		UNCLASSIFIED	10.0	442.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
129.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	452.0	
125.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	456.0	
122.5	CARBONDALE		UNCLASSIFIED	2.5	458.5	SHALE ABOVE BRERETON LIMESTONE
120.0	CARBONDALE	BRERETON	LIMESTONE	4.0	461.0	
116.0	CARBONDALE	ANNA	BLACK SHALE	2.0	465.0	
114.0	CARBONDALE	HERRIN	COAL	4.0	467.0	

MAPID: 00501107000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.298263 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.979916 **DATE COLLECTED:** 1 / 0 / 1951

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 487.0 **LOG TYPE:** Electric Log

SOURCE: FRANK & BASSETT **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
129.0	MODESTO	PIASA	LIMESTONE	3.0	447.0	
126.0	MODESTO		UNCLASSIFIED	6.0	450.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
120.0	CARBONDALE	DANVILLE	COAL	2.0	456.0	
118.0	CARBONDALE		UNCLASSIFIED	12.0	458.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
106.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	470.0	
100.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	476.0	
98.0	CARBONDALE		UNCLASSIFIED	2.0	478.0	SHALE ABOVE BRERETON LIMESTONE
96.0	CARBONDALE	BRERETON	LIMESTONE	1.0	480.0	
95.0	CARBONDALE	ANNA	BLACK SHALE	2.0	481.0	
93.0	CARBONDALE	HERRIN	COAL	4.0	483.0	

MAPID: 00501109000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.302992 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.988971 **DATE COLLECTED:** 9 / 0 / 1941

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 449.0 **LOG TYPE:** Electric Log

SOURCE: HAUSMANN A J **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.0	MODESTO	PIASA	LIMESTONE	4.0	405.0	
170.0	MODESTO		UNCLASSIFIED	6.0	409.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
164.0	CARBONDALE		UNCLASSIFIED	17.0	415.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
147.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	432.0	
139.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	440.0	
137.5	CARBONDALE		UNCLASSIFIED	1.5	441.5	SHALE ABOVE BRERETON LIMESTONE
136.0	CARBONDALE	BRERETON	LIMESTONE	1.0	443.0	
135.0	CARBONDALE	ANNA	BLACK SHALE	1.0	444.0	
134.0	CARBONDALE	HERRIN	COAL	4.0	445.0	

MAPID: 00501111000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.302927 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.981713 **DATE COLLECTED:** 1 / 0 / 1951

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 458.0 **LOG TYPE:** Electric Log

SOURCE: FRANK & BASSETT **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
162.1	MODESTO	PIASA	LIMESTONE	4.0	413.9	
158.1	MODESTO		UNCLASSIFIED	6.0	417.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
152.1	CARBONDALE	DANVILLE	COAL	2.0	423.9	
150.1	CARBONDALE		UNCLASSIFIED	14.0	425.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
136.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	439.9	
128.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	447.9	
126.3	CARBONDALE		UNCLASSIFIED	1.8	449.7	SHALE ABOVE BRERETON LIMESTONE
124.5	CARBONDALE	BRERETON	LIMESTONE	1.5	451.5	
123.0	CARBONDALE	ANNA	BLACK SHALE	1.0	453.0	
122.0	CARBONDALE	HERRIN	COAL	4.0	454.0	

MAPID: 00501114000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.312175 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.978068 **DATE COLLECTED:** 11 / 0 / 1950

SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 434.0 **LOG TYPE:** Electric Log

SOURCE: HOPKINS, DALE **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	MODESTO	PIASA	LIMESTONE	4.0	393.0	
180.0	MODESTO		UNCLASSIFIED	6.0	397.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
174.0	CARBONDALE	DANVILLE	COAL	3.0	403.0	
171.0	CARBONDALE		UNCLASSIFIED	10.0	406.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
161.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	416.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	421.0	
155.0	CARBONDALE		UNCLASSIFIED	1.0	422.0	SHALE ABOVE BRERETON LIMESTONE
154.0	CARBONDALE	BRERETON	LIMESTONE	2.5	423.0	
151.5	CARBONDALE	ANNA	BLACK SHALE	3.5	425.5	
148.0	CARBONDALE	HERRIN	COAL	5.0	429.0	

MAPID: 00522806000C **VERSION:** 1 **PROJECT:** NCRDS94

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:**

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.304102 **GEOLOGIST:** HOKE

CONFIDENTIAL: N **LATITUDE:** 38.982623 **DATE COLLECTED:** 4 / 22 / 1981

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 500.0 **LOG TYPE:**

SOURCE: UTAH INTERNATIONAL BON8103 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
590.0	PLEISTOCENE		UNCONSOLIDATED	132.0	0.0	
458.0			DARK GRAY SHALE	16.0	132.0	
442.0			SHALE	4.0	148.0	
438.0			DARK GRAY SHALE	42.0	152.0	
396.0			SANDY SHALE	7.0	194.0	
389.0			CALCARIOUS SANDY SHALE	1.0	201.0	
388.0			SANDY SHALE	12.0	202.0	
376.0			DARK GRAY SHALE	13.0	214.0	
363.0			SANDY SHALE	12.0	227.0	
351.0			SANDY SHALE	9.0	239.0	
342.0			SANDSTONE	74.0	248.0	GRAY
268.0			SHALE	10.0	322.0	INBED SS
258.0			SHALY SANDSTONE	23.0	332.0	GRAY
235.0			SANDY SHALE	2.0	355.0	
233.0			DARK GRAY SHALE	5.0	357.0	
228.0			SHALE WITH LIMESTONE	3.0	362.0	
225.0			SHALE	1.0	365.0	
224.0			SHALE WITH LIMESTONE	2.0	366.0	
222.0			DARK GRAY SHALE	35.0	368.0	
187.0			BLACK SHALE	1.0	403.0	
186.0			DARK GRAY SHALE	5.0	404.0	
181.0			BLACK SHALE	1.0	409.0	
180.0			DARK GRAY SHALE	8.0	410.0	
172.0			SHALE	4.0	418.0	
168.0			BLACK SHALE	4.0	422.0	
164.0			CALCARIOUS SANDY SHALE	11.0	426.0	
153.0			SHALE	1.0	437.0	
152.0			DARK GRAY SHALE	3.0	438.0	
149.0			SHALE	4.0	441.0	
145.0			SHALE	2.0	445.0	
143.0			SHALE	4.0	447.0	
139.0			DARK GRAY SHALE	4.0	451.0	
135.0			SHALE	2.8	455.0	
132.2			BLACK SHALE	0.5	457.8	
131.7	CARBONDALE	HERRIN	COAL	3.8	458.3	
127.9	CARBONDALE		UNDERCLAY	2.9	462.1	
125.0	CARBONDALE		SHALE WITH LIMESTONE	9.0	465.0	
116.0	CARBONDALE		SHALE	2.0	474.0	

114.0	CARBONDALE		SHALE WITH LIMESTONE	7.7	476.0
106.3	CARBONDALE	SPRINGFIELD	BONE COAL	2.7	483.7
103.6	CARBONDALE		BLACK SHALE	1.6	486.4
102.0	CARBONDALE		SHALE	4.0	488.0
98.0	CARBONDALE		DARK GRAY SHALE	2.0	492.0

MAPID: 00570003000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 10 **QUARTERS/FOOTAGES:** 820' N line, 920' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.310197 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.987616 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 550.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 07C180 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
593.0			NO RECORD	300.0	0.0	
293.0			SANDSTONE	80.0	300.0	
213.0			BLACK SHALE	10.0	380.0	
203.0			SHALE	20.0	390.0	
183.0			LIMESTONE	3.0	410.0	
180.0			SHALE	17.0	413.0	
163.0			LIMESTONE	6.0	430.0	
157.0			SHALE	4.0	436.0	
153.0			BLACK SHALE	1.0	440.0	
152.0			LIMESTONE	10.0	441.0	
142.0			SHALE	9.0	451.0	
133.0			LIMESTONE	6.0	460.0	
127.0			BLACK SHALE	4.0	466.0	
123.0			LIMESTONE	4.0	470.0	
119.0			SHALE	6.0	474.0	
113.0			SANDSTONE	17.0	480.0	
96.0	CARBONDALE	HERRIN	COAL	3.0	497.0	
93.0	CARBONDALE		BLACK SHALE	1.0	500.0	
92.0	CARBONDALE		RED SHALE	11.0	501.0	
81.0	CARBONDALE		BLACK SHALE	8.0	512.0	
73.0	CARBONDALE		SHALE	10.0	520.0	
63.0	CARBONDALE		COAL	1.0	530.0	
62.0	CARBONDALE		SANDSTONE	18.0	531.0	
44.0	CARBONDALE		COAL	1.0	549.0	

MAPID: 00500214000C **VERSION:** 1 **PROJECT:** D JOHNSON

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

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.277143 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.983497 **DATE COLLECTED:** 12 / 0 / 1944

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

SOURCE: THOMPSON B F **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	18.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3		
-	CARBONDALE		UNCLASSIFIED	2.3		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.5		
-	CARBONDALE	ANNA	BLACK SHALE	4.0		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 66

MAPID: 00500214000C **VERSION:** 2 **PROJECT:** CIRC 164

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

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.277143 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.983497 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 578.0 **LOGGED (FT.):** 1302.0 **LOG TYPE:**

SOURCE: THOMPSON B, ELMORE 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
394.0	BOND	CARTHAGE	LIMESTONE	-	184.0	
68.0	CARBONDALE	HERRIN	COAL	-	510.0	

MAPID: 00500595000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.293685 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.988966 **DATE COLLECTED:** 1 / 0 / 1951

SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 497.0 **LOG TYPE:** Electric Log

SOURCE: FRANK & BASSETT **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
131.0	MODESTO	PIASA	LIMESTONE	3.0	453.0	
128.0	MODESTO		UNCLASSIFIED	7.0	456.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
121.0	CARBONDALE	DANVILLE	COAL	2.0	463.0	
119.0	CARBONDALE		UNCLASSIFIED	13.0	465.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
106.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	478.0	
97.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	487.0	
95.0	CARBONDALE		UNCLASSIFIED	2.0	489.0	SHALE ABOVE BRERETON LIMESTONE
93.0	CARBONDALE	BRERETON	LIMESTONE	0.5	491.0	
92.5	CARBONDALE	ANNA	BLACK SHALE	1.5	491.5	
91.0	CARBONDALE	HERRIN	COAL	4.0	493.0	

MAPID: 00500595000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.293685 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.988966 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 496.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
130.0	MODESTO	PIASA	LIMESTONE	2.5	454.0	
127.5	CARBONDALE		SHALE	21.0	456.5	
106.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	477.5	LOWER BENCH
102.5	CARBONDALE	LAWSON	SHALE	4.0	481.5	
98.5	CARBONDALE	BRERETON	LIMESTONE	2.5	485.5	
96.0	CARBONDALE	ANNA	SHALE	5.0	488.0	
91.0	CARBONDALE	HERRIN	COAL	3.5	493.0	

MAPID: 00500184000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 13 **QUARTERS/FOOTAGES:** SW SE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.26991 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.961657 **DATE COLLECTED:** 0 / 0 / 1939

SURFACE ELEVATION (FT.): 559.0 **LOGGED (FT.):** 1320.0 **LOG TYPE:**

SOURCE: ELMORE J, DILMAN J J 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
39.0	CARBONDALE	HERRIN	COAL	-	520.0	CORRELATION UNCERTAIN

MAPID: 00522807000C **VERSION:** 1 **PROJECT:** NCRDS94

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 13 **QUARTERS/FOOTAGES:** NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.271171 **GEOLOGIST:** HOKE

CONFIDENTIAL: N **LATITUDE:** 38.971788 **DATE COLLECTED:** 4 / 17 / 1981

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 500.0 **LOG TYPE:**

SOURCE: UTAH INTERNATIONAL BON8101 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
565.0	PLEISTOCENE		UNCONSOLIDATED	66.0	0.0	
499.0			SHALE	5.0	66.0	
494.0			SHALE	1.0	71.0	
493.0			SHALE	4.0	72.0	
489.0			SHALE	1.0	76.0	
488.0			SHALE	43.0	77.0	
445.0			SANDY SHALE	5.0	120.0	
440.0			SHALE	6.0	125.0	
434.0			SHALE	27.0	131.0	
407.0			SHALE	8.0	158.0	
399.0			BLACK SHALE	1.0	166.0	
398.0			SHALE	22.0	167.0	
376.0			DARK GRAY SHALE	5.0	189.0	
371.0			SANDY SHALE	6.0	194.0	
365.0			SHALE	59.0	200.0	
306.0			SHALE	2.0	259.0	
304.0			SHALE WITH LIMESTONE	16.0	261.0	
288.0			CALCARIOUS SANDY SHALE	9.0	277.0	
279.0			SHALE WITH LIMESTONE	12.0	286.0	
267.0			SHALE	2.0	298.0	
265.0			SHALE WITH LIMESTONE	6.0	300.0	
259.0			SHALE	1.0	306.0	
258.0			SANDY SHALE	8.0	307.0	
250.0			SANDSTONE	79.0	315.0	GRAY
171.0			SHALE	63.0	394.0	
108.0			SHALE WITH LIMESTONE	4.0	457.0	
104.0			SHALE	1.0	461.0	
103.0			SHALE	2.0	462.0	
101.0			SHALE	2.0	464.0	
99.0			SHALE	5.0	466.0	
94.0			SHALE	3.0	471.0	
91.0			SHALE	3.3	474.0	
87.7			BLACK SHALE	0.2	477.3	
87.5	CARBONDALE	HERRIN	COAL	3.1	477.5	
84.4	CARBONDALE		UNDERCLAY	5.4	480.6	

MAPID: 00500151000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 14 **QUARTERS/FOOTAGES:** 1650' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.293479 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.970836 **DATE COLLECTED:** 0 / 0 / 1943

SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 2458.0 **LOG TYPE:**

SOURCE: BURGARD E, KLAUS 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
409.0	BOND	CARTHAGE	LIMESTONE	-	168.0	
87.0	CARBONDALE	HERRIN	COAL	-	490.0	

MAPID: 00500151000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 14 **QUARTERS/FOOTAGES:** 1650' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.293479 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.970836 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 496.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	MODESTO	PIASA	LIMESTONE	3.5	454.0	
119.5	CARBONDALE		SHALE	21.0	457.5	
98.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	478.5	LOWER BENCH
93.5	CARBONDALE	LAWSON	SHALE	8.0	483.5	
85.0	CARBONDALE	HERRIN	COAL	4.0	492.0	

MAPID: 00500151000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 14 **QUARTERS/FOOTAGES:** 1650' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.293479 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.970836 **DATE COLLECTED:** 2 / 0 / 1943

SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 496.0 **LOG TYPE:** Electric Log

SOURCE: BURGARD, EMIL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	MODESTO	PIASA	LIMESTONE	4.0	454.0	
119.0	MODESTO		UNCLASSIFIED	8.0	458.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
111.0	CARBONDALE		UNCLASSIFIED	12.0	466.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
99.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	478.0	
93.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	484.0	
90.5	CARBONDALE		UNCLASSIFIED	2.5	486.5	SHALE ABOVE BRERETON LIMESTONE
88.0	CARBONDALE	BRERETON	LIMESTONE	1.0	489.0	
87.0	CARBONDALE	ANNA	BLACK SHALE	2.0	490.0	
85.0	CARBONDALE	HERRIN	COAL	4.0	492.0	

MAPID: 00500185000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW SW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.312063 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.970782 **DATE COLLECTED:** 7 / 0 / 1941

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 434.5 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	4.0	388.0	
187.0	MODESTO		UNCLASSIFIED	3.5	392.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.5	CARBONDALE		UNCLASSIFIED	21.0	395.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
162.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	416.5	
154.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	425.0	
152.0	CARBONDALE		UNCLASSIFIED	2.0	427.0	SHALE ABOVE BRERETON LIMESTONE
150.0	CARBONDALE	BRERETON	LIMESTONE	1.0	429.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	1.0	430.0	
148.0	CARBONDALE	HERRIN	COAL	3.5	431.0	

MAPID: 00500185000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** NW SW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.312063 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.970782 **DATE COLLECTED:** 0 / 0 / 1941

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 2474.0 **LOG TYPE:**

SOURCE: TEXAS CO, MULL J 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	CARBONDALE	HERRIN	COAL	-	430.0	

MAPID: 00500596000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 1650' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.30746 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.974443 **DATE COLLECTED:** 9 / 0 / 1950

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: SPADE DRILLING CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
178.0	MODESTO	PIASA	LIMESTONE	3.0	391.0	
175.0	MODESTO		UNCLASSIFIED	2.0	394.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
173.0	CARBONDALE	DANVILLE	COAL	2.0	396.0	
171.0	CARBONDALE		UNCLASSIFIED	20.5	398.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	418.5	
140.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	428.5	
139.0	CARBONDALE		UNCLASSIFIED	1.5	430.0	SHALE ABOVE BRERETON LIMESTONE
137.5	CARBONDALE	BRERETON	LIMESTONE	2.0	431.5	
135.5	CARBONDALE	ANNA	BLACK SHALE	1.5	433.5	
134.0	CARBONDALE	HERRIN	COAL	2.0	435.0	

MAPID: 00500596000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 1650' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.30746 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.974443 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
178.0	MODESTO	PIASA	LIMESTONE	3.0	391.0	
175.0	CARBONDALE		SHALE	16.0	394.0	
159.0	CARBONDALE	GALUM	LIMESTONE	3.0	410.0	
156.0	CARBONDALE		SHALE	7.0	413.0	
149.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	420.0	UPPER BENCH
146.5	CARBONDALE	BANKSTON FORK	SHALE	3.0	422.5	SHALE PARTING
143.5	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	425.5	LOWER BENCH
140.5	CARBONDALE	LAWSON	SHALE	4.0	428.5	
136.5	CARBONDALE	BRERETON	LIMESTONE	2.0	432.5	
134.5	CARBONDALE	ANNA	SHALE	1.0	434.5	
134.0	CARBONDALE	HERRIN	COAL	3.0	435.0	

MAPID: 00500765000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.312128 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.974432 **DATE COLLECTED:** 7 / 0 / 1958

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR DRILLING CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
188.0	MODESTO	PIASA	LIMESTONE	4.0	377.0	
184.0	MODESTO		UNCLASSIFIED	6.0	381.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
178.0	CARBONDALE	DANVILLE	COAL	2.0	387.0	
176.0	CARBONDALE		UNCLASSIFIED	13.0	389.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
163.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	402.0	
153.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	411.5	
152.0	CARBONDALE		UNCLASSIFIED	1.5	413.0	SHALE ABOVE BRERETON LIMESTONE
150.5	CARBONDALE	BRERETON	LIMESTONE	0.5	414.5	
150.0	CARBONDALE	ANNA	BLACK SHALE	1.0	415.0	
149.0	CARBONDALE	HERRIN	COAL	3.0	416.0	

MAPID: 00500953000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.30745 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.972619 **DATE COLLECTED:** 11 / 0 / 1962

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 429.5 **LOG TYPE:** Electric Log

SOURCE: FARRAR OIL CO., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
188.1	MODESTO	PIASA	LIMESTONE	4.0	382.9	
184.1	MODESTO		UNCLASSIFIED	5.0	386.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
179.1	CARBONDALE	DANVILLE	COAL	2.0	391.9	
177.1	CARBONDALE		UNCLASSIFIED	18.0	393.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
159.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	411.9	
152.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	418.9	
150.3	CARBONDALE		UNCLASSIFIED	1.8	420.7	SHALE ABOVE BRERETON LIMESTONE
148.5	CARBONDALE	BRERETON	LIMESTONE	1.5	422.5	
147.0	CARBONDALE	ANNA	BLACK SHALE	1.0	424.0	
146.0	CARBONDALE	HERRIN	COAL	4.5	425.0	

MAPID: 00500200000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE SE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323612 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.961676 **DATE COLLECTED:** 7 / 0 / 1946

SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 437.5 **LOG TYPE:** Electric Log

SOURCE: HORTON, LEO V., ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.0	MODESTO	PIASA	LIMESTONE	6.0	386.0	
174.0	MODESTO		UNCLASSIFIED	5.5	392.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
168.5	CARBONDALE	DANVILLE	COAL	1.5	397.5	
167.0	CARBONDALE		UNCLASSIFIED	19.0	399.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
148.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	418.0	
138.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	428.0	
136.0	CARBONDALE		UNCLASSIFIED	2.0	430.0	SHALE ABOVE BRERETON LIMESTONE
134.0	CARBONDALE	BRERETON	LIMESTONE	1.0	432.0	
133.0	CARBONDALE	ANNA	BLACK SHALE	1.0	433.0	
132.0	CARBONDALE	HERRIN	COAL	3.5	434.0	

MAPID: 00500200000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323612 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.961676 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 1042.0 **LOG TYPE:**
SOURCE: HORTON L, REA C M 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
439.0	BOND	CARTHAGE	LIMESTONE	-	126.0	
134.0	CARBONDALE	HERRIN	COAL	6.0	431.0	

MAPID: 00500200000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323612 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.961676 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1042.0 **LOG TYPE:** Survey Sample Study
SOURCE: HORTON, LEO V., 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	THICKNESS (FT.) OVERBURDEN	COMMENT
-			NO RECORD	0.0	0.0	

MAPID: 00500524000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.319135 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.97261 **DATE COLLECTED:** 11 / 0 / 1956
SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 437.5 **LOG TYPE:** Electric Log
SOURCE: BELDEN, W. L. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
192.0	MODESTO	PIASA	LIMESTONE	4.0	392.0	
188.0	MODESTO		UNCLASSIFIED	4.0	396.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
184.0	CARBONDALE	DANVILLE	COAL	3.0	400.0	
181.0	CARBONDALE		UNCLASSIFIED	15.0	403.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	418.0	
159.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	425.0	
156.5	CARBONDALE		UNCLASSIFIED	2.5	427.5	SHALE ABOVE BRERETON LIMESTONE
154.0	CARBONDALE	BRERETON	LIMESTONE	2.0	430.0	
152.0	CARBONDALE	ANNA	BLACK SHALE	1.0	432.0	
151.0	CARBONDALE	HERRIN	COAL	4.5	433.0	

MAPID: 00500597000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.316726 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.968956 **DATE COLLECTED:** 5 / 0 / 1950

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Electric Log

SOURCE: MIAMI OPERATING CO **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
197.0	MODESTO	PIASA	LIMESTONE	4.0	378.0	
193.0	MODESTO		UNCLASSIFIED	7.0	382.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
186.0	CARBONDALE	DANVILLE	COAL	3.0	389.0	
183.0	CARBONDALE		UNCLASSIFIED	10.0	392.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
173.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	402.0	
168.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	407.0	
166.0	CARBONDALE		UNCLASSIFIED	2.0	409.0	SHALE ABOVE BRERETON LIMESTONE
164.0	CARBONDALE	BRERETON	LIMESTONE	3.0	411.0	
161.0	CARBONDALE	ANNA	BLACK SHALE	3.0	414.0	
158.0	CARBONDALE	HERRIN	COAL	6.0	417.0	

MAPID: 00501133000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.31906 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.968963 **DATE COLLECTED:** 8 / 0 / 1950

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

SOURCE: MIAMI OPERATING CO **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	2.0		
-	CARBONDALE		UNCLASSIFIED	18.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.0		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	4.0		ELEVATION OF HERRIN = 156

MAPID: 00501141000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318916 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.961663 **DATE COLLECTED:** 11 / 0 / 1949

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Electric Log

SOURCE: M & M DRILLING CORP **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
201.0	MODESTO	PIASA	LIMESTONE	5.0	374.0	
196.0	MODESTO		UNCLASSIFIED	5.0	379.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
191.0	CARBONDALE		UNCLASSIFIED	20.0	384.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
171.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	404.0	
163.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	412.0	
162.0	CARBONDALE		UNCLASSIFIED	1.0	413.0	SHALE ABOVE BRERETON LIMESTONE
161.0	CARBONDALE	BRERETON	LIMESTONE	2.0	414.0	
159.0	CARBONDALE	ANNA	BLACK SHALE	2.0	416.0	
157.0	CARBONDALE	HERRIN	COAL	4.0	418.0	

MAPID: 00501142000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 990' S line, 1650' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318925 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.963485 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 421.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	3.0	383.0	
188.0	CARBONDALE		SHALE	22.0	386.0	
166.0	CARBONDALE	BRERETON	LIMESTONE	4.0	408.0	
162.0	CARBONDALE	ANNA	SHALE	4.0	412.0	
158.0	CARBONDALE	HERRIN	COAL	5.0	416.0	

MAPID: 00501160000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 380' W line of NE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.316477 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.965309 **DATE COLLECTED:** 11 / 0 / 1949

SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 407.0 **LOG TYPE:** Electric Log

SOURCE: M & M DRILLING CORP **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
204.1	MODESTO	PIASA	LIMESTONE	4.0	363.9	
200.1	MODESTO		UNCLASSIFIED	4.0	367.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
196.1	CARBONDALE	DANVILLE	COAL	2.0	371.9	
194.1	CARBONDALE		UNCLASSIFIED	14.0	373.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
180.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	387.9	
174.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8	393.9	
170.3	CARBONDALE		UNCLASSIFIED	3.8	397.7	SHALE ABOVE BRERETON LIMESTONE
166.5	CARBONDALE	BRERETON	LIMESTONE	0.5	401.5	
166.0	CARBONDALE	ANNA	BLACK SHALE	1.0	402.0	
165.0	CARBONDALE	HERRIN	COAL	4.0	403.0	

MAPID: 00500215000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.349656 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.974323 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 1017.0 **LOG TYPE:**

SOURCE: RBTS&HOILS, BAKER 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
456.0	BOND	CARTHAGE	LIMESTONE	-	114.0	
162.0	CARBONDALE	HERRIN	COAL	-	408.0	

MAPID: 00500215000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.349656 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.974323 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 414.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
197.0	MODESTO	PIASA	LIMESTONE	3.0	363.0	
194.0	CARBONDALE		SHALE	10.0	366.0	
184.0	CARBONDALE	GALUM	LIMESTONE	5.0	376.0	
179.0	CARBONDALE		SHALE	14.0	381.0	
165.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	395.0	LOWER BENCH
159.0	CARBONDALE	LAWSON	SHALE	8.0	401.0	
150.0	CARBONDALE	HERRIN	COAL	4.0	410.0	

MAPID: 00500215000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.349656 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.974323 **DATE COLLECTED:** 7 / 0 / 1946

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 414.0 **LOG TYPE:** Electric Log

SOURCE: ROBERTS & HOILES **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	MODESTO	PIASA	LIMESTONE	5.0	376.0	
179.0	MODESTO		UNCLASSIFIED	3.0	381.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE		UNCLASSIFIED	10.5	384.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
165.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	394.5	
158.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	402.0	
155.5	CARBONDALE		UNCLASSIFIED	2.5	404.5	SHALE ABOVE BRERETON LIMESTONE
153.0	CARBONDALE	BRERETON	LIMESTONE	1.0	407.0	
152.0	CARBONDALE	ANNA	BLACK SHALE	2.0	408.0	
150.0	CARBONDALE	HERRIN	COAL	4.0	410.0	

MAPID: 00522809000C **VERSION:** 1 **PROJECT:** NCRDS94

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 18 **QUARTERS/FOOTAGES:**

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.362224 **GEOLOGIST:** HOKE

CONFIDENTIAL: N **LATITUDE:** 38.967832 **DATE COLLECTED:** 4 / 24 / 1981

SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 500.0 **LOG TYPE:**

SOURCE: UTAH INTERNATIONAL BON8104 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
570.0	PLEISTOCENE		UNCONSOLIDATED	52.0	0.0	
518.0			SANDY SHALE	7.0	52.0	
511.0			SANDSTONE	8.0	59.0	GRAY
503.0			SANDY SHALE	14.0	67.0	
489.0			CALCARIOUS SANDY SHALE	17.0	81.0	
472.0			SANDY SHALE	7.0	98.0	
465.0			DARK GRAY SHALE	21.0	105.0	
444.0			SHALE	9.0	126.0	
435.0			BLACK SHALE	1.0	135.0	
434.0			SANDY SHALE	29.0	136.0	
405.0			SHALE/SANDSTONE/LIMESTONE	34.0	165.0	
371.0			DARK GRAY SHALE	2.0	199.0	
369.0			SANDY SHALE	5.0	201.0	
364.0			SHALE WITH LIMESTONE	1.0	206.0	
363.0			SANDY SHALE	42.0	207.0	
321.0			SHALE WITH LIMESTONE	5.0	249.0	
316.0			SANDY SHALE	11.0	254.0	
305.0			BONE COAL	2.0	265.0	
303.0			SHALE	61.0	267.0	INBED SS
242.0			SANDSTONE	12.0	328.0	
230.0			COAL/SANDSTONE	3.0	340.0	CMNTD SS; GY
227.0			SANDSTONE	7.0	343.0	
220.0			SHALE	5.0	350.0	
215.0			SANDY SHALE	5.0	355.0	
210.0			SANDSTONE	2.0	360.0	
208.0			SANDY SHALE	8.0	362.0	
200.0			CALCARIOUS SANDY SHALE	9.0	370.0	
191.0			SHALE/SANDSTONE/LIMESTONE	22.0	379.0	
169.0			BLACK SHALE	1.0	401.0	
168.0			DARK GRAY SHALE	9.0	402.0	
159.0			SHALE	3.0	411.0	
156.0			DARK GRAY SHALE	2.0	414.0	
154.0			CALCARIOUS SANDY SHALE	4.0	416.0	
150.0			SHALE	3.0	420.0	
147.0			SHALE WITH LIMESTONE	2.0	423.0	
145.0			SHALE	3.0	425.0	

142.0			DARK GRAY SHALE	4.0	428.0
138.0	CARBONDALE	ANNA	BLACK SHALE	0.9	432.0
137.1	CARBONDALE	HERRIN	COAL	1.4	432.9
135.7	CARBONDALE	HERRIN	BONE COAL	0.8	434.3
134.9	CARBONDALE	HERRIN	COAL	1.3	435.1
133.6	CARBONDALE	HERRIN	BONE COAL	0.4	436.4
133.2	CARBONDALE	HERRIN	COAL	1.5	436.8
131.7	CARBONDALE		UNDERCLAY	3.7	438.3
128.0	CARBONDALE		SHALE/SANDSTONE/LIMESTONE	4.0	442.0
124.0	CARBONDALE		DARK GRAY SHALE	4.0	446.0
120.0	CARBONDALE		SHALE/SANDSTONE/LIMESTONE	6.0	450.0
114.0	CARBONDALE		DARK GRAY SHALE	1.0	456.0
113.0	CARBONDALE		SHALE	2.0	457.0
111.0	CARBONDALE		BLACK SHALE	1.1	459.0
109.9	CARBONDALE	SPRINGFIELD	COAL	2.3	460.1
107.6	CARBONDALE		UNDERCLAY	3.6	462.4
104.0	CARBONDALE		SHALE/SANDSTONE/LIMESTONE	23.0	466.0

MAPID: 00500011000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW NW SW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.361155 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.948244 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 510.4 **LOGGED (FT.):** 940.0 **LOG TYPE:**

SOURCE: CLINE, **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
448.4	BOND	CARTHAGE	LIMESTONE	-	62.0	
118.4	CARBONDALE	HERRIN	COAL	-	392.0	

MAPID: 00500011000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW NW SW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.361155 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.948244 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 398.0 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.0	MODESTO	PIASA	LIMESTONE	5.0	360.0	
145.0	CARBONDALE		SHALE	15.0	365.0	
130.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	380.0	LOWER BENCH
127.0	CARBONDALE	LAWSON	SHALE	7.0	383.0	
120.0	CARBONDALE	BRERETON	LIMESTONE	2.0	390.0	
118.0	CARBONDALE	HERRIN	COAL	6.0	392.0	

MAPID: 00500011000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW NW SW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.361155 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.948244 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 398.0 **LOG TYPE:** Drillers Log

SOURCE: NO COMPANY **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.0	MODESTO	PIASA	LIMESTONE	5.0	360.0	
145.0	MODESTO		UNCLASSIFIED	3.0	365.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
142.0	CARBONDALE		UNCLASSIFIED	10.0	368.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
132.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	378.0	
127.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	383.0	
123.5	CARBONDALE		UNCLASSIFIED	3.5	386.5	SHALE ABOVE BRERETON LIMESTONE
120.0	CARBONDALE	BRERETON	LIMESTONE	2.0	390.0	
118.0	CARBONDALE	HERRIN	COAL	6.0	392.0	

MAPID: 00500591000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 2310' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339959 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.959784 **DATE COLLECTED:** 1 / 0 / 1951

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 451.0 **LOG TYPE:** Electric Log

SOURCE: NEWLIN H L **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
169.0	MODESTO	PIASA	LIMESTONE	4.0	402.0	
165.0	MODESTO		UNCLASSIFIED	6.5	406.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
158.5	CARBONDALE	DANVILLE	COAL	1.5	412.5	
157.0	CARBONDALE		UNCLASSIFIED	9.0	414.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
148.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	423.0	
141.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	430.0	
138.5	CARBONDALE		UNCLASSIFIED	2.5	432.5	SHALE ABOVE BRERETON LIMESTONE
136.0	CARBONDALE	BRERETON	LIMESTONE	5.0	435.0	
131.0	CARBONDALE	ANNA	BLACK SHALE	6.0	440.0	
125.0	CARBONDALE	HERRIN	COAL	5.0	446.0	

MAPID: 00500591000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 2310' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.339959 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.959784 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	4.0	422.0	
143.0	CARBONDALE		SHALE	6.0	426.0	
137.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	432.0	LOWER BENCH
132.0	CARBONDALE	LAWSON	SHALE	5.0	437.0	
127.0	CARBONDALE	ANNA	SHALE	2.0	442.0	
125.0	CARBONDALE	HERRIN	COAL	4.0	444.0	

MAPID: 00500186000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** SW NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.321103 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.950806 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 1181.0 **LOG TYPE:**

SOURCE: SHELL OC, DUNNIGAN V 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
416.0	BOND	CARTHAGE	LIMESTONE	-	148.0	
110.0	CARBONDALE	HERRIN	COAL	-	454.0	CORRELATION UNCERTAIN

MAPID: 00500383000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.32342 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.948985 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 402.5 **LOG TYPE:** Electric Log

SOURCE: ROBINSON, H. F., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	5.0	355.0	
188.0	MODESTO		UNCLASSIFIED	6.0	360.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.0	CARBONDALE		UNCLASSIFIED	18.0	366.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
164.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	384.0	
154.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	394.0	
152.5	CARBONDALE		UNCLASSIFIED	1.5	395.5	SHALE ABOVE BRERETON LIMESTONE
151.0	CARBONDALE	ANNA	BLACK SHALE	1.0	397.0	
150.0	CARBONDALE	HERRIN	COAL	4.5	398.0	

MAPID: 00500414000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 380' S line, 330' W line of NE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.316415 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.950964 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 444.5 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
164.0	MODESTO	PIASA	LIMESTONE	3.5	403.0	
160.5	MODESTO		UNCLASSIFIED	4.0	406.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
156.5	CARBONDALE	DANVILLE	COAL	1.5	410.5	
155.0	CARBONDALE		UNCLASSIFIED	13.0	412.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
142.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	425.0	
132.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	435.0	
130.5	CARBONDALE		UNCLASSIFIED	1.5	436.5	SHALE ABOVE BRERETON LIMESTONE
129.0	CARBONDALE	BRERETON	LIMESTONE	1.0	438.0	
128.0	CARBONDALE	ANNA	BLACK SHALE	1.0	439.0	
127.0	CARBONDALE	HERRIN	COAL	4.5	440.0	

MAPID: 00500432000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318691 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.947208 **DATE COLLECTED:** 4 / 0 / 1956

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
177.0	MODESTO	PIASA	LIMESTONE	5.0	388.0	
172.0	MODESTO		UNCLASSIFIED	4.0	393.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
168.0	CARBONDALE	DANVILLE	COAL	1.5	397.0	
166.5	CARBONDALE		UNCLASSIFIED	18.5	398.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
148.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	417.0	
139.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	426.0	
137.0	CARBONDALE		UNCLASSIFIED	2.0	428.0	SHALE ABOVE BRERETON LIMESTONE
135.0	CARBONDALE	BRERETON	LIMESTONE	2.0	430.0	
133.0	CARBONDALE	ANNA	BLACK SHALE	2.0	432.0	
131.0	CARBONDALE	HERRIN	COAL	4.0	434.0	

MAPID: 00501148000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 430' E line of NW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.319235 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.959833 **DATE COLLECTED:** 9 / 0 / 1949

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Electric Log

SOURCE: CHEVALIER L L **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	4.0	378.0	
189.0	MODESTO		UNCLASSIFIED	3.5	382.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
185.5	CARBONDALE	DANVILLE	COAL	1.0	385.5	
184.5	CARBONDALE		UNCLASSIFIED	15.5	386.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
169.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	402.0	
160.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	411.0	
158.0	CARBONDALE		UNCLASSIFIED	2.0	413.0	SHALE ABOVE BRERETON LIMESTONE
156.0	CARBONDALE	BRERETON	LIMESTONE	1.0	415.0	
155.0	CARBONDALE	ANNA	BLACK SHALE	2.0	416.0	
153.0	CARBONDALE	HERRIN	COAL	4.0	418.0	

MAPID: 00501152000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.32355 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.95804 **DATE COLLECTED:** 12 / 0 / 1949

SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 419.5 **LOG TYPE:** Electric Log

SOURCE: CHEVALIER L L **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
196.0	MODESTO	PIASA	LIMESTONE	5.0	374.0	
191.0	MODESTO		UNCLASSIFIED	9.0	379.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.0	CARBONDALE	DANVILLE	COAL	2.0	388.0	
180.0	CARBONDALE		UNCLASSIFIED	13.0	390.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
167.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	403.0	
160.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	410.0	
158.5	CARBONDALE		UNCLASSIFIED	1.5	411.5	SHALE ABOVE BRERETON LIMESTONE
157.0	CARBONDALE	BRERETON	LIMESTONE	1.0	413.0	
156.0	CARBONDALE	ANNA	BLACK SHALE	1.0	414.0	
155.0	CARBONDALE	HERRIN	COAL	4.5	415.0	

MAPID: 00501153000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 300' S line, 300' W line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.321268 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.954343 **DATE COLLECTED:** 11 / 0 / 1948

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Electric Log

SOURCE: HORTON, LEO V., ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
186.0	MODESTO	PIASA	LIMESTONE	5.0	374.0	
181.0	MODESTO		UNCLASSIFIED	6.0	379.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
175.0	CARBONDALE		UNCLASSIFIED	19.0	385.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
156.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	404.0	
148.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	412.0	
146.0	CARBONDALE		UNCLASSIFIED	2.0	414.0	SHALE ABOVE BRERETON LIMESTONE
144.0	CARBONDALE	BRERETON	LIMESTONE	1.0	416.0	
143.0	CARBONDALE	ANNA	BLACK SHALE	1.0	417.0	
142.0	CARBONDALE	HERRIN	COAL	4.0	418.0	

MAPID: 00501155000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 1650' N line, 2310' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.321132 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.956189 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
179.0	MODESTO	PIASA	LIMESTONE	4.0	382.0	
175.0	CARBONDALE		SHALE	25.0	386.0	
150.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	411.0	LOWER BENCH
145.0	CARBONDALE	LAWSON	SHALE	3.0	416.0	
142.0	CARBONDALE	ANNA	SHALE	1.0	419.0	
145.0	CARBONDALE	HERRIN	COAL	3.0	416.0	

MAPID: 00501163000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323574 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.959835 **DATE COLLECTED:** 11 / 0 / 1948

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 425.0 **LOG TYPE:** Electric Log

SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
189.0	MODESTO	PIASA	LIMESTONE	6.0	372.0	
183.0	MODESTO		UNCLASSIFIED	9.0	378.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
174.0	CARBONDALE		UNCLASSIFIED	17.0	387.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
157.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	404.0	
150.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	411.0	
148.0	CARBONDALE		UNCLASSIFIED	2.0	413.0	SHALE ABOVE BRERETON LIMESTONE
146.0	CARBONDALE	BRERETON	LIMESTONE	3.0	415.0	
143.0	CARBONDALE	ANNA	BLACK SHALE	2.0	418.0	
141.0	CARBONDALE	HERRIN	COAL	5.0	420.0	

MAPID: 00522808000C **VERSION:** 1 **PROJECT:** NCRDS94

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 21 **QUARTERS/FOOTAGES:** SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.326968 **GEOLOGIST:** HOKE

CONFIDENTIAL: N **LATITUDE:** 38.949885 **DATE COLLECTED:** 4 / 19 / 1981

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 521.0 **LOG TYPE:**

SOURCE: UTAH INTERNATIONAL BON8102 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
562.0	PLEISTOCENE		UNCONSOLIDATED	62.0	0.0	
500.0			GREEN SHALE	17.0	62.0	
483.0			SHALE	16.0	79.0	
467.0			SHALE	8.0	95.0	
459.0			BLACK SHALE	1.0	103.0	
458.0			SHALE	8.0	104.0	
450.0			SANDY SHALE	50.0	112.0	
400.0			DARK GRAY SHALE	7.0	162.0	
393.0			SANDY SHALE	21.0	169.0	
372.0			DARK GRAY SHALE	20.0	190.0	
352.0			SHALE	34.0	210.0	INBED SS
318.0			SHALE	9.0	244.0	
309.0			SANDSTONE	73.0	253.0	GRAY
236.0			SHALE/SANDSTONE/LIMESTONE	14.0	326.0	
222.0			SANDSTONE	14.0	340.0	GRAY
208.0			SANDY SHALE	9.0	354.0	
199.0			SHALE	9.0	363.0	
190.0			SHALE	6.0	372.0	
184.0			SHALE WITH LIMESTONE	4.0	378.0	
180.0			BLACK SHALE	1.0	382.0	
179.0			SHALE WITH LIMESTONE	15.0	383.0	
164.0			BLACK SHALE	1.0	398.0	
163.0			SHALE WITH LIMESTONE	18.0	399.0	
145.0			BLACK SHALE	0.9	417.0	
144.1	CARBONDALE	HERRIN	COAL	4.4	417.9	
139.7	CARBONDALE	HERRIN	COAL	0.5	422.3	RASHY COAL
139.2	CARBONDALE		SHALE	13.2	422.8	
126.0	CARBONDALE		SHALE	6.0	436.0	
120.0	CARBONDALE		BLACK SHALE	0.9	442.0	
119.1	CARBONDALE	SPRINGFIELD	COAL	1.3	442.9	
117.8	CARBONDALE	SPRINGFIELD	BONE COAL	0.2	444.2	
117.6	CARBONDALE	SPRINGFIELD	COAL	1.1	444.4	
116.5	CARBONDALE	SPRINGFIELD	BONE COAL	1.3	445.5	
115.2	CARBONDALE		UNDERCLAY	3.2	446.8	
112.0	CARBONDALE		SANDY SHALE	39.0	450.0	
73.0	CARBONDALE		BLACK SHALE	3.0	489.0	
70.0	CARBONDALE		SHALE	0.5	492.0	
69.5	CARBONDALE	HOUCHIN CREEK	COAL	2.0	492.5	

67.5	CARBONDALE	UNDERCLAY	5.5	494.5
62.0		SANDY SHALE	10.0	500.0

MAPID: 00500188000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** NW SE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.307026 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.94903 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 2460.0 **LOG TYPE:**

SOURCE: SWAN KING, BROWN 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
118.0	CARBONDALE	HERRIN	COAL	-	442.0	CORRELATION UNCERTAIN

MAPID: 00500198000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.311859 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.959844 **DATE COLLECTED:** 11 / 0 / 1944

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 425.0 **LOG TYPE:** Electric Log

SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.0	MODESTO	PIASA	LIMESTONE	8.0	374.0	
187.0	MODESTO		UNCLASSIFIED	8.0	382.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
179.0	CARBONDALE	DANVILLE	COAL	1.5	390.0	
177.5	CARBONDALE		UNCLASSIFIED	9.5	391.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
168.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	401.0	
161.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	408.0	
158.5	CARBONDALE		UNCLASSIFIED	2.5	410.5	SHALE ABOVE BRERETON LIMESTONE
156.0	CARBONDALE	BRERETON	LIMESTONE	4.0	413.0	
152.0	CARBONDALE	ANNA	BLACK SHALE	4.0	417.0	
148.0	CARBONDALE	HERRIN	COAL	4.0	421.0	

MAPID: 00500198000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.311859 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.959844 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 2485.0 **LOG TYPE:**

SOURCE: TEXAS CO, MILLER F M 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
149.0	CARBONDALE	HERRIN	COAL	-	420.0	

MAPID: 00570001000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 22 **QUARTERS/FOOTAGES:** 990' S line, 1600' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.307193 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.949058 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 868.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 02C188 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
557.0			NO RECORD	115.0	0.0	
442.0			SHALE W/ COAL STREAKS	125.0	115.0	
317.0			SANDSTONE	70.0	240.0	
247.0			SANDY SHALE	20.0	310.0	
227.0			SANDSTONE	10.0	330.0	
217.0			SHALE	50.0	340.0	
167.0			UNCLASSIFIED	20.0	390.0	
147.0			SHALE	10.0	410.0	
137.0	SHELBURN	DANVILLE	COAL	5.0	420.0	UNCERTAIN CORRELATION
132.0	SHELBURN		SHALE	5.0	425.0	
127.0	SHELBURN		LIMESTONE	15.0	430.0	
112.0	CARBONDALE	HERRIN	COAL	5.0	445.0	UNCERTAIN CORRELATION
107.0			SHALE	300.0	450.0	
-193.0			SANDSTONE	40.0	750.0	
-233.0			LIMESTONE	4.0	790.0	
-237.0			SANDSTONE	8.0	794.0	
-245.0			UNCLASSIFIED	36.0	802.0	
-281.0			SHALE	30.0	838.0	

MAPID: 00500978000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 25 **QUARTERS/FOOTAGES:** 1650' S line, 990' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.260395 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.936327 **DATE COLLECTED:** 10 / 0 / 1963

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 433.0 **LOG TYPE:** Electric Log

SOURCE: JENNEMAN E E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
166.1	MODESTO	PIASA	LIMESTONE	4.0	388.9	
162.1	MODESTO		UNCLASSIFIED	5.0	392.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
157.1	CARBONDALE	DANVILLE	COAL	3.0	397.9	
154.1	CARBONDALE		UNCLASSIFIED	11.0	400.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
143.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	411.9	
134.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	420.9	
131.8	CARBONDALE		UNCLASSIFIED	2.3	423.2	SHALE ABOVE BRERETON LIMESTONE
129.5	CARBONDALE	BRERETON	LIMESTONE	1.5	425.5	
128.0	CARBONDALE	ANNA	BLACK SHALE	1.0	427.0	
127.0	CARBONDALE	HERRIN	COAL	5.0	428.0	

MAPID: 00500978000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 25 **QUARTERS/FOOTAGES:** 1650' S line, 990' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.260395 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.936327 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 432.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
192.0	CARBONDALE		SHALE	51.0	363.0	
141.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	414.0	LOWER BENCH
134.0	CARBONDALE	LAWSON	SHALE	5.0	421.0	
129.0	CARBONDALE	ANNA	SHALE	2.0	426.0	
127.0	CARBONDALE	HERRIN	COAL	4.5	428.0	

MAPID: 00500189000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.288219 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.934537 **DATE COLLECTED:** 0 / 0 / 1938
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 462.0 **LOG TYPE:** Drillers Log
SOURCE: WHITEHEAD A T **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
106.0	CARBONDALE	HERRIN	COAL	8.0	454.0	

MAPID: 00500189000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.288219 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.934537 **DATE COLLECTED:** 0 / 0 / 1938
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 3301.0 **LOG TYPE:**
SOURCE: WHTEHEAD A, POLAND C 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
106.0	CARBONDALE	HERRIN	COAL	-	454.0	

MAPID: 00500977000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.276782 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.945409 **DATE COLLECTED:** 11 / 0 / 1963
SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log
SOURCE: JENNEMAN E E **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
162.0	MODESTO	PIASA	LIMESTONE	3.0	402.0	
159.0	MODESTO		UNCLASSIFIED	5.0	405.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
154.0	CARBONDALE	DANVILLE	COAL	2.0	410.0	
152.0	CARBONDALE		UNCLASSIFIED	14.0	412.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
138.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	426.0	
134.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	430.0	
131.0	CARBONDALE		UNCLASSIFIED	3.0	433.0	SHALE ABOVE BRERETON LIMESTONE
128.0	CARBONDALE	BRERETON	LIMESTONE	5.0	436.0	
123.0	CARBONDALE	ANNA	BLACK SHALE	3.0	441.0	
120.0	CARBONDALE	HERRIN	COAL	3.0	444.0	

MAPID: 00501224000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 26 **QUARTERS/FOOTAGES:** 990' S line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.292863 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.934595 **DATE COLLECTED:** 8 / 0 / 1966

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 444.0 **LOG TYPE:** Electric Log

SOURCE: EVANS, CHARLES T. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
159.1	MODESTO	PIASA	LIMESTONE	4.0	398.9	
155.1	MODESTO		UNCLASSIFIED	6.0	402.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
149.1	CARBONDALE		UNCLASSIFIED	15.0	408.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
134.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	423.9	
128.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	429.9	
125.3	CARBONDALE		UNCLASSIFIED	2.8	432.7	SHALE ABOVE BRERETON LIMESTONE
122.5	CARBONDALE	BRERETON	LIMESTONE	2.5	435.5	
120.0	CARBONDALE	ANNA	BLACK SHALE	2.0	438.0	
118.0	CARBONDALE	HERRIN	COAL	4.0	440.0	

MAPID: 00500408000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.311632 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.945408 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 563.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Electric Log

SOURCE: NANCE & VIVADELLI **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.0	MODESTO	PIASA	LIMESTONE	3.0	391.0	
169.0	MODESTO		UNCLASSIFIED	3.0	394.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
166.0	CARBONDALE		UNCLASSIFIED	15.0	397.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
151.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.0	412.0	
140.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	423.0	
138.0	CARBONDALE		UNCLASSIFIED	2.0	425.0	SHALE ABOVE BRERETON LIMESTONE
136.0	CARBONDALE	BRERETON	LIMESTONE	1.0	427.0	
135.0	CARBONDALE	ANNA	BLACK SHALE	2.0	428.0	
133.0	CARBONDALE	HERRIN	COAL	5.0	430.0	

MAPID: 00500012000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** SE SE SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.313892 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.932701 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 557.3 **LOGGED (FT.):** 436.0 **LOG TYPE:**

SOURCE: PEABODY CC 4, **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
419.3	BOND	CARTHAGE	LIMESTONE	-	138.0	

MAPID: 00500013000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 660' S line, 1320' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.317396 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.93362 **DATE COLLECTED:** 3 / 0 / 1912

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
557.0			UNCONSOLIDATED	41.0	0.0	
516.0			ROCK	367.0	41.0	
149.0			SHALE	1.0	408.0	
148.0			LIMESTONE	3.0	409.0	
145.0			SHALE	8.0	412.0	
137.0			LIMESTONE	4.7	420.0	
132.3			SHALE	5.0	424.7	
127.3			LIMESTONE	2.3	429.7	
125.0			BLACK SHALE	1.5	432.0	
123.5	CARBONDALE	HERRIN	COAL	6.5	433.5	
117.0			ROCK	8.0	440.0	

MAPID: 00500013000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 660' S line, 1320' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.317396 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.93362 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 439.5 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.0	MODESTO	PIASA	LIMESTONE	3.0	409.0	
145.0	MODESTO		GRAY SHALE	1.0	412.0	
144.0	CARBONDALE		DARK GRAY SHALE	1.0	413.0	
143.0	CARBONDALE		LIMESTONE W/ SHALE	6.0	414.0	
137.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.7	420.0	LOWER BENCH
132.3	CARBONDALE	LAWSON	DARK GRAY SHALE	1.0	424.7	
131.3	CARBONDALE	BRERETON	LIMESTONE	2.3	425.7	
129.0	CARBONDALE	ANNA	BLACK SHALE	1.5	428.0	
124.0	CARBONDALE	HERRIN	COAL	6.5	433.0	

MAPID: 00500013000C **VERSION:** 3 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 660' S line, 1320' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.317396 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.93362 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 557.3 **LOGGED (FT.):** 448.0 **LOG TYPE:**

SOURCE: PEABODY CC 5, **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
433.3	BOND	CARTHAGE	LIMESTONE	-	124.0	
123.3	CARBONDALE	HERRIN	COAL	6.5	434.0	

MAPID: 00500013000C **VERSION:** 4 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 660' S line, 1320' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.317396 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.93362 **DATE COLLECTED:** 3 / 0 / 1912

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 438.5 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
151.5	CARBONDALE	DANVILLE	COAL	0.5	405.5	
151.0	CARBONDALE		UNCLASSIFIED	11.5	406.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
139.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.7	417.5	
133.8	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0	423.2	
129.8	CARBONDALE		UNCLASSIFIED	1.0	427.2	SHALE ABOVE BRERETON LIMESTONE
128.8	CARBONDALE	BRERETON	LIMESTONE	2.3	428.2	
126.5	CARBONDALE	ANNA	BLACK SHALE	1.5	430.5	
125.0	CARBONDALE	HERRIN	COAL	6.5	432.0	

MAPID: 00500190000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 990' S line, 990' E line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.31628 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.941782 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 453.0 **LOG TYPE:** Electric Log

SOURCE: SHELL OIL COMPANY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
134.0	CARBONDALE		UNCLASSIFIED	11.0	424.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
123.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	435.0	
114.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	444.0	
112.5	CARBONDALE		UNCLASSIFIED	1.5	445.5	SHALE ABOVE BRERETON LIMESTONE
111.0	CARBONDALE	BRERETON	LIMESTONE	1.0	447.0	
110.0	CARBONDALE	ANNA	BLACK SHALE	2.0	448.0	
108.0	CARBONDALE	HERRIN	COAL	3.0	450.0	

MAPID: 00500415000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.318667 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.945386 **DATE COLLECTED:** 2 / 0 / 1956

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 442.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
156.0	MODESTO	PIASA	LIMESTONE	4.0	406.0	
152.0	MODESTO		UNCLASSIFIED	2.0	410.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
150.0	CARBONDALE	DANVILLE	COAL	1.5	412.0	
148.5	CARBONDALE		UNCLASSIFIED	8.5	413.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
140.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	422.0	
131.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	431.0	
129.5	CARBONDALE		UNCLASSIFIED	1.5	432.5	SHALE ABOVE BRERETON LIMESTONE
128.0	CARBONDALE	BRERETON	LIMESTONE	1.5	434.0	
126.5	CARBONDALE	ANNA	BLACK SHALE	2.5	435.5	
124.0	CARBONDALE	HERRIN	COAL	4.0	438.0	

MAPID: 00500433000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.321036 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.945376 **DATE COLLECTED:** 4 / 0 / 1956

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 427.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
186.1	MODESTO	PIASA	LIMESTONE	6.0	374.9	
180.1	MODESTO		UNCLASSIFIED	6.0	380.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
174.1	CARBONDALE		UNCLASSIFIED	20.0	386.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	406.9	
145.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	415.4	
143.8	CARBONDALE		UNCLASSIFIED	1.8	417.2	SHALE ABOVE BRERETON LIMESTONE
142.0	CARBONDALE	BRERETON	LIMESTONE	1.0	419.0	
141.0	CARBONDALE	ANNA	BLACK SHALE	2.0	420.0	
139.0	CARBONDALE	HERRIN	COAL	5.0	422.0	

MAPID: 00500439000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323325 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.941749 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 431.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
177.0	MODESTO	PIASA	LIMESTONE	4.0	387.0	
173.0	MODESTO		UNCLASSIFIED	6.0	391.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
167.0	CARBONDALE		UNCLASSIFIED	17.0	397.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	414.0	
142.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	422.0	
140.5	CARBONDALE		UNCLASSIFIED	1.5	423.5	SHALE ABOVE BRERETON LIMESTONE
139.0	CARBONDALE	BRERETON	LIMESTONE	1.0	425.0	
138.0	CARBONDALE	ANNA	BLACK SHALE	1.0	426.0	
137.0	CARBONDALE	HERRIN	COAL	4.0	427.0	

MAPID: 00500440000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 430' N line, 330' E line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323366 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.945092 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 549.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: BELDEN, W. L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.1	MODESTO	PIASA	LIMESTONE	3.5	367.9	
177.6	MODESTO		UNCLASSIFIED	5.5	371.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
172.1	CARBONDALE		UNCLASSIFIED	13.0	376.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
159.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	389.9	
149.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	399.9	
147.8	CARBONDALE		UNCLASSIFIED	1.3	401.2	SHALE ABOVE BRERETON LIMESTONE
146.5	CARBONDALE	BRERETON	LIMESTONE	1.0	402.5	
145.5	CARBONDALE	ANNA	BLACK SHALE	1.5	403.5	
144.0	CARBONDALE	HERRIN	COAL	5.0	405.0	

MAPID: 00500461000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.320952 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.938134 **DATE COLLECTED:** 6 / 0 / 1956

SURFACE ELEVATION (FT.): 553.0 **LOGGED (FT.):** 426.5 **LOG TYPE:** Electric Log

SOURCE: BELDEN, W. L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
157.6	CARBONDALE		UNCLASSIFIED	13.0	395.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
144.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	408.4	
138.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	414.4	
136.8	CARBONDALE		UNCLASSIFIED	1.8	416.2	SHALE ABOVE BRERETON LIMESTONE
135.0	CARBONDALE	BRERETON	LIMESTONE	1.5	418.0	
133.5	CARBONDALE	ANNA	BLACK SHALE	1.5	419.5	
132.0	CARBONDALE	HERRIN	COAL	5.5	421.0	

MAPID: 00500478000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 360' S line, 330' W line of NW NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.321015 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.943658 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.0	MODESTO	PIASA	LIMESTONE	4.0	379.0	
168.0	MODESTO		UNCLASSIFIED	7.0	383.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
161.0	CARBONDALE		UNCLASSIFIED	13.0	390.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
148.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	403.0	
139.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	412.0	
137.5	CARBONDALE		UNCLASSIFIED	1.5	413.5	SHALE ABOVE BRERETON LIMESTONE
136.0	CARBONDALE	BRERETON	LIMESTONE	1.0	415.0	
135.0	CARBONDALE	ANNA	BLACK SHALE	2.0	416.0	
133.0	CARBONDALE	HERRIN	COAL	5.0	418.0	

MAPID: 00500779000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.327882 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.932723 **DATE COLLECTED:** 12 / 0 / 1958
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 439.0 **LOG TYPE:** Electric Log
SOURCE: DOLPHIN OPER. CO., INC. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
156.0	MODESTO	PIASA	LIMESTONE	3.5	404.0	
152.5	MODESTO		UNCLASSIFIED	2.5	407.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
150.0	CARBONDALE		UNCLASSIFIED	12.0	410.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
138.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	422.0	
131.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	429.0	
129.5	CARBONDALE		UNCLASSIFIED	1.5	430.5	SHALE ABOVE BRERETON LIMESTONE
128.0	CARBONDALE	BRERETON	LIMESTONE	1.5	432.0	
126.5	CARBONDALE	ANNA	BLACK SHALE	2.5	433.5	
124.0	CARBONDALE	HERRIN	COAL	3.0	436.0	

MAPID: 00500014000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SW NE
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.337328 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.939895 **DATE COLLECTED:** 0 / 0 / 1916
SURFACE ELEVATION (FT.): 533.6 **LOGGED (FT.):** 1100.0 **LOG TYPE:**
SOURCE: MINOR T L 1, **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
441.6	BOND	CARTHAGE	LIMESTONE	-	92.0	
113.6	CARBONDALE	HERRIN	COAL	-	420.0	CORRELATION UNCERTAIN

MAPID: 00500074000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 32 **QUARTERS/FOOTAGES:** 1320' N line, 1650' W line
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.344046 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.928116 **DATE COLLECTED:** 0 / 0 / 1923
SURFACE ELEVATION (FT.): 536.5 **LOGGED (FT.):** 501.0 **LOG TYPE:**
SOURCE: CASEY M B, **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
411.5	BOND	CARTHAGE	LIMESTONE	-	125.0	
72.5	CARBONDALE	HERRIN	COAL	4.2	464.0	

MAPID: 00500074000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 32 **QUARTERS/FOOTAGES:** 1320' N line, 1650' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.344046 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.928116 **DATE COLLECTED:** 0 / 0 / 1923

SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 501.0 **LOG TYPE:** Drillers Log

SOURCE: MCNEILL FARM **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
536.0			UNCONSOLIDATED	125.0	0.0	
411.0			ROCK	64.6	125.0	
346.4			COAL	0.8	189.6	
345.7			ROCK	132.7	190.3	
213.0			COAL	0.1	323.0	
212.9			ROCK	100.9	323.1	
112.0			SHALE	33.0	424.0	
79.0			LIMESTONE	6.7	457.0	
72.3	CARBONDALE	HERRIN	COAL	4.2	463.7	
68.2			ROCK	33.2	467.8	

MAPID: 00500751000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.329961 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.923635 **DATE COLLECTED:** 4 / 0 / 1958

SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
175.0	MODESTO	PIASA	LIMESTONE	4.0	392.0	
171.0	MODESTO		UNCLASSIFIED	6.0	396.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
165.0	CARBONDALE		UNCLASSIFIED	15.0	402.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	417.0	
144.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	423.0	
141.5	CARBONDALE		UNCLASSIFIED	2.5	425.5	SHALE ABOVE BRERETON LIMESTONE
139.0	CARBONDALE	BRERETON	LIMESTONE	5.0	428.0	
134.0	CARBONDALE	ANNA	BLACK SHALE	1.0	433.0	
133.0	CARBONDALE	HERRIN	COAL	3.0	434.0	

MAPID: 00500775000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.320718 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.92549 **DATE COLLECTED:** 9 / 0 / 1958

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 458.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.1	MODESTO	PIASA	LIMESTONE	4.0	411.9	
144.1	MODESTO		UNCLASSIFIED	5.0	415.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.1	CARBONDALE		UNCLASSIFIED	17.0	420.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
122.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	437.9	
113.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	446.9	
111.3	CARBONDALE		UNCLASSIFIED	1.8	448.7	SHALE ABOVE BRERETON LIMESTONE
109.5	CARBONDALE	BRERETON	LIMESTONE	1.0	450.5	
108.5	CARBONDALE	ANNA	BLACK SHALE	1.5	451.5	
107.0	CARBONDALE	HERRIN	COAL	5.0	453.0	

MAPID: 00500789000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.327698 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.925465 **DATE COLLECTED:** 12 / 0 / 1958

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 433.5 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
176.0	MODESTO	PIASA	LIMESTONE	4.0	384.0	
172.0	MODESTO		UNCLASSIFIED	6.0	388.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
166.0	CARBONDALE	DANVILLE	COAL	1.0	394.0	
165.0	CARBONDALE		UNCLASSIFIED	19.0	395.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
146.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	414.0	
140.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	420.0	
138.5	CARBONDALE		UNCLASSIFIED	1.5	421.5	SHALE ABOVE BRERETON LIMESTONE
137.0	CARBONDALE	BRERETON	LIMESTONE	5.0	423.0	
132.0	CARBONDALE	ANNA	BLACK SHALE	2.0	428.0	
130.0	CARBONDALE	HERRIN	COAL	3.5	430.0	

MAPID: 00500790000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325269 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.92185 **DATE COLLECTED:** 3 / 0 / 1959

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 450.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON, F. E. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.1	MODESTO	PIASA	LIMESTONE	2.5	405.9	
152.6	MODESTO		UNCLASSIFIED	5.5	408.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
147.1	CARBONDALE	DANVILLE	COAL	2.0	413.9	
145.1	CARBONDALE		UNCLASSIFIED	14.0	415.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
131.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	429.9	
122.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	438.4	
120.8	CARBONDALE		UNCLASSIFIED	1.8	440.2	SHALE ABOVE BRERETON LIMESTONE
119.0	CARBONDALE	BRERETON	LIMESTONE	1.0	442.0	
118.0	CARBONDALE	ANNA	BLACK SHALE	2.0	443.0	
116.0	CARBONDALE	HERRIN	COAL	5.0	445.0	

MAPID: 00500791000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.327553 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.920015 **DATE COLLECTED:** 3 / 0 / 1959

SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 454.0 **LOG TYPE:** Electric Log

SOURCE: HOILES C E **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
157.1	MODESTO	PIASA	LIMESTONE	4.0	409.9	
153.1	MODESTO		UNCLASSIFIED	5.0	413.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
148.1	CARBONDALE		UNCLASSIFIED	16.0	418.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
132.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	434.9	
123.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	0.8	443.4	
122.8	CARBONDALE		UNCLASSIFIED	0.8	444.2	SHALE ABOVE BRERETON LIMESTONE
122.0	CARBONDALE	BRERETON	LIMESTONE	1.0	445.0	
121.0	CARBONDALE	ANNA	BLACK SHALE	3.0	446.0	
118.0	CARBONDALE	HERRIN	COAL	5.0	449.0	

MAPID: 00500795000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.325463 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.929097 **DATE COLLECTED:** 3 / 0 / 1959

SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Electric Log

SOURCE: CAHILL & SMITH **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
169.5	MODESTO	PIASA	LIMESTONE	5.0	376.5	
164.5	MODESTO		UNCLASSIFIED	4.0	381.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
160.5	CARBONDALE		UNCLASSIFIED	17.5	385.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
143.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	403.0	
133.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	412.5	
132.5	CARBONDALE		UNCLASSIFIED	1.0	413.5	SHALE ABOVE BRERETON LIMESTONE
131.5	CARBONDALE	BRERETON	LIMESTONE	1.0	414.5	
130.5	CARBONDALE	ANNA	BLACK SHALE	1.5	415.5	
129.0	CARBONDALE	HERRIN	COAL	5.0	417.0	

MAPID: 00500797000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.320625 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.921879 **DATE COLLECTED:** 5 / 0 / 1959

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 457.5 **LOG TYPE:** Electric Log

SOURCE: DOLPHIN OPER. CO., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
153.1	MODESTO	PIASA	LIMESTONE	4.0	406.9	
149.1	MODESTO		UNCLASSIFIED	6.0	410.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
143.1	CARBONDALE		UNCLASSIFIED	20.0	416.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
123.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	436.9	
114.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	445.4	
112.8	CARBONDALE		UNCLASSIFIED	1.8	447.2	SHALE ABOVE BRERETON LIMESTONE
111.0	CARBONDALE	BRERETON	LIMESTONE	2.0	449.0	
109.0	CARBONDALE	ANNA	BLACK SHALE	2.0	451.0	
107.0	CARBONDALE	HERRIN	COAL	4.5	453.0	

MAPID: 00501228000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.323141 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.929071 **DATE COLLECTED:** 1 / 0 / 1941

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

SOURCE: SHELL OIL COMPANY **WELL TYPE:** Stratigraphic Test

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	6.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	16.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8		
-	CARBONDALE		UNCLASSIFIED	1.8		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.5		
-	CARBONDALE	ANNA	BLACK SHALE	1.5		
-	CARBONDALE	HERRIN	COAL	4.0		ELEVATION OF HERRIN = 118

MAPID: 00500752000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.29971 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.921867 **DATE COLLECTED:** 4 / 0 / 1958

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 463.0 **LOG TYPE:** Electric Log

SOURCE: GRANT N L **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
145.0	MODESTO	PIASA	LIMESTONE	4.0	417.0	
141.0	MODESTO		UNCLASSIFIED	5.0	421.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
136.0	CARBONDALE		UNCLASSIFIED	16.5	426.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
119.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	442.5	
114.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	448.0	
111.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	451.0	
110.0	CARBONDALE		UNCLASSIFIED	3.0	452.0	SHALE ABOVE BRERETON LIMESTONE
107.0	CARBONDALE	BRERETON	LIMESTONE	2.0	455.0	
105.0	CARBONDALE	ANNA	BLACK SHALE	3.0	457.0	
102.0	CARBONDALE	HERRIN	COAL	3.0	460.0	

MAPID: 00500144000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 3 **QUARTERS/FOOTAGES:** 600' N line, 600' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.412468 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.996863 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 2430.0 **LOG TYPE:**
SOURCE: REISIG QUI **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
80.0	CARBONDALE	HERRIN	COAL	5.0	440.0	

MAPID: 00500216000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** 1290' N line, 1579' E line of SW NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.441296 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.993723 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 5 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
199.1	MODESTO	PIASA	LIMESTONE	2.5	409.9	
196.6	MODESTO		GRAY SHALE	5.0	412.4	
191.6	CARBONDALE		DARK GRAY SHALE	3.0	417.4	
188.6	CARBONDALE		DARK GRAY SHALE	5.5	420.4	
183.1	CARBONDALE		CALCAREOUS SHALE	2.5	425.9	
180.6	CARBONDALE	BANKSTON FORK	CALCAREOUS SHALE	9.5	428.4	LOWER BENCH
171.1	CARBONDALE	LAWSON	GRAY SHALE	5.5	437.9	
165.6	CARBONDALE	LAWSON	BLACK SHALE	5.0	443.4	
160.6	CARBONDALE	LAWSON	GRAY SHALE	2.0	448.4	
158.6	CARBONDALE	LAWSON	DARK GRAY SHALE	5.3	450.4	
153.2	CARBONDALE	BRERETON	LIMESTONE	1.0	455.8	
152.2	CARBONDALE	ANNA	DARK GRAY SHALE	1.3	456.8	
151.0	CARBONDALE	HERRIN	COAL	6.8	458.0	

MAPID: 00500216000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** 1290' N line, 1579' E line of SW NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.441296 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.993723 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 498.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 5 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
165.1	MODESTO	PIASA	LIMESTONE	2.5	443.9	
162.6	MODESTO		UNCLASSIFIED	5.0	446.4	
157.6	CARBONDALE		UNCLASSIFIED	20.5	451.4	
137.1	CARBONDALE	BANKSTON FORK	LIMESTONE	10.5	471.9	
126.6	CARBONDALE	ANVIL ROCK	SANDSTONE	2.0	482.4	
124.6	CARBONDALE		SHALE	5.3	484.4	
119.3	CARBONDALE	BRERETON	LIMESTONE	2.3	489.7	
117.0	CARBONDALE	HERRIN	COAL	6.8	492.0	

MAPID: 00500216000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 4 **QUARTERS/FOOTAGES:** 1290' N line, 1579' E line of SW NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.441296 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.993723 **DATE COLLECTED:** 7 / 0 / 1944
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 501.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 5 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
117.4	CARBONDALE	HERRIN	COAL	6.8	491.6	

MAPID: 00500217000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** 30' N line, 1750' E line of NE NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.458334 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.998404 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 613.0 **LOGGED (FT.):** 478.8 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 4 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
185.3	MODESTO	PIASA	CALCAREOUS SHALE	3.0	427.7	
182.3	MODESTO		VARRIGATED SHALE	14.0	430.7	
168.3	CARBONDALE		CALCAREOUS SHALE	1.0	444.7	
167.3	CARBONDALE		BLACK SHALE	5.0	445.7	
162.3	CARBONDALE	ALLENBY	CARBONACEOUS SHALE	1.0	450.7	
161.3	CARBONDALE		GRAY SHALE	3.0	451.7	
158.3	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	11.2	454.7	LOWER BENCH
147.2	CARBONDALE	LAWSON	GRAY SHALE	3.1	465.8	
144.1	CARBONDALE	ANNA	BLACK SHALE	2.1	468.9	
142.0	CARBONDALE	HERRIN	COAL	7.8	471.0	

MAPID: 00500217000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** 30' N line, 1750' E line of NE NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.458334 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.998404 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 613.0 **LOGGED (FT.):** 478.8 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 4 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.5	MODESTO	PIASA	LIMESTONE	1.8	428.5	
182.7	MODESTO		UNCLASSIFIED	7.0	430.3	
175.7	CARBONDALE		UNCLASSIFIED	17.3	437.3	
158.4	CARBONDALE	BANKSTON FORK	LIMESTONE	11.2	454.6	
147.2	CARBONDALE	ANVIL ROCK	SANDSTONE	1.6	465.8	
145.6	CARBONDALE		SHALE	1.5	467.4	
144.1	CARBONDALE	ANNA	BLACK SHALE	2.1	468.9	
142.0	CARBONDALE	HERRIN	COAL	7.8	471.0	

MAPID: 00500217000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 5 **QUARTERS/FOOTAGES:** 30' N line, 1750' E line of NE NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.458334 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.998404 **DATE COLLECTED:** 6 / 0 / 1944
SURFACE ELEVATION (FT.): 613.0 **LOGGED (FT.):** 484.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 4 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
336.0			COAL	0.0	277.0	
141.7	CARBONDALE	HERRIN	COAL	7.8	471.3	

MAPID: 00500588000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 990' S line, 990' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.469542 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.9916 **DATE COLLECTED:** 9 / 0 / 1951
SURFACE ELEVATION (FT.): 611.0 **LOGGED (FT.):** 483.0 **LOG TYPE:** Electric Log
SOURCE: CRAWFORD J L **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
177.5	MODESTO	PIASA	LIMESTONE	6.0	433.5	
171.5	MODESTO		UNCLASSIFIED	6.0	439.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
165.5	CARBONDALE	DANVILLE	COAL	1.5	445.5	
164.0	CARBONDALE		UNCLASSIFIED	15.0	447.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
149.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	462.0	
142.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	469.0	
139.5	CARBONDALE		UNCLASSIFIED	2.5	471.5	SHALE ABOVE BRERETON LIMESTONE
137.0	CARBONDALE	BRERETON	LIMESTONE	2.0	474.0	
135.0	CARBONDALE	ANNA	BLACK SHALE	2.0	476.0	
133.0	CARBONDALE	HERRIN	COAL	5.0	478.0	

MAPID: 00501164000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 300' S line, 660' W line of NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.473459 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.996984 **DATE COLLECTED:** 4 / 0 / 1941
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: REGENT OIL CORP **WELL TYPE:** Dry Hole
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.0		ELEVATION OF HERRIN = 127

MAPID: 00570022000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 6 **QUARTERS/FOOTAGES:** 1680' S line, 2130' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.47357 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.993505 **DATE COLLECTED:** 0 / 0 / 1941

SURFACE ELEVATION (FT.): 602.0 **LOGGED (FT.):** 721.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 01C1164 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
602.0			NO RECORD	80.0	0.0	
522.0			SHALE	43.0	80.0	
479.0			SANDSTONE	12.0	123.0	
467.0			SHALE	79.0	135.0	
388.0			LIMESTONE	16.0	214.0	
372.0			COAL	2.0	230.0	
370.0			SHALE	16.0	232.0	
354.0			LIMESTONE	14.0	248.0	
340.0			SHALE	18.0	262.0	
322.0			SANDSTONE	5.0	280.0	
317.0			SHALE	20.0	285.0	
297.0			LIMESTONE	10.0	305.0	
287.0			SHALE	5.0	315.0	
282.0			SANDSTONE	10.0	320.0	
272.0			SHALE	75.0	330.0	
197.0			LIMESTONE	32.0	405.0	
165.0			SHALE	13.0	437.0	
152.0			LIMESTONE	25.0	450.0	
127.0	CARBONDALE	HERRIN	COAL	5.0	475.0	
122.0	CARBONDALE		UNCLASSIFIED	241.0	480.0	

MAPID: 00500218000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** 2362' N line, 2557' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.457021 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.982383 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 489.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 7 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
165.7	MODESTO	PIASA	CALCAREOUS SHALE	3.5	443.3	
162.2	MODESTO		VARRIGATED SHALE	9.5	446.8	
152.7	CARBONDALE		CALCAREOUS SHALE	2.0	456.3	
150.7	CARBONDALE		GRAY SHALE	12.0	458.3	
138.7	CARBONDALE	BANKSTON FORK	LIMESTONE	7.8	470.3	LOWER BENCH
130.8	CARBONDALE	LAWSON	GRAY SHALE	0.7	478.2	
130.2	CARBONDALE	BRERETON	LIMESTONE	2.9	478.8	
127.2	CARBONDALE	ANNA	BLACK SHALE	1.3	481.8	
126.0	CARBONDALE	HERRIN	COAL	6.8	483.0	

MAPID: 00500218000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** 2362' N line, 2557' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.457021 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.982383 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 489.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 7 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.6	MODESTO	PIASA	LIMESTONE	0.8	445.4	
162.8	MODESTO		UNCLASSIFIED	6.1	446.2	
156.7	CARBONDALE	DANVILLE	COAL	0.3	452.3	
156.4	CARBONDALE		UNCLASSIFIED	12.0	452.6	
144.4	CARBONDALE	BANKSTON FORK	LIMESTONE	10.6	464.6	
133.8	CARBONDALE	ANVIL ROCK	SANDSTONE	0.7	475.2	
133.1	CARBONDALE		SHALE	2.9	475.9	
130.2	CARBONDALE	BRERETON	LIMESTONE	2.9	478.8	
127.3	CARBONDALE	ANNA	BLACK SHALE	1.3	481.7	
126.0	CARBONDALE	HERRIN	COAL	6.8	483.0	

MAPID: 00500218000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** 2362' N line, 2557' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.457021 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.982383 **DATE COLLECTED:** 7 / 0 / 1944
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 492.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 7 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
374.8			COAL	1.1	234.2	
360.2			COAL	0.3	248.8	
126.4	CARBONDALE	HERRIN	COAL	6.8	482.6	

MAPID: 00500521000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.448671 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.975185 **DATE COLLECTED:** 11 / 15 / 1913
SURFACE ELEVATION (FT.): 598.0 **LOGGED (FT.):** 473.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 13 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
438.0			LIMESTONE	7.5	160.0	
382.0			COAL	1.0	216.0	
375.0			COAL	0.8	223.0	
175.5			LIMESTONE	4.5	422.5	
151.0			LIMESTONE	1.0	447.0	
148.0			LIMESTONE	9.3	450.0	
133.0	CARBONDALE	HERRIN	COAL	7.1	465.0	

MAPID: 00500521000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.448671 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.975185 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 598.0 **LOGGED (FT.):** 472.1 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 13 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
175.6	MODESTO	PIASA	LIMESTONE	4.5	422.4	
171.1	MODESTO		UNCLASSIFIED	3.0	426.9	
168.1	CARBONDALE		UNCLASSIFIED	15.0	429.9	
153.1	CARBONDALE	BANKSTON FORK	LIMESTONE	11.3	444.9	
141.8	CARBONDALE	ANVIL ROCK	SANDSTONE	3.0	456.2	
138.8	CARBONDALE		SHALE	1.8	459.2	
137.0	CARBONDALE	BRERETON	LIMESTONE	2.0	461.0	
135.0	CARBONDALE	ANNA	BLACK SHALE	2.0	463.0	
133.0	CARBONDALE	HERRIN	COAL	7.1	465.0	

MAPID: 00500663000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.460278 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.977042 **DATE COLLECTED:** 0 / 0 / 1906
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 486.2 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
166.0	MODESTO	PIASA	LIMESTONE	4.0	439.0	
162.0	MODESTO		UNCLASSIFIED	4.0	443.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
158.0	CARBONDALE		UNCLASSIFIED	15.5	447.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
142.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	462.5	
133.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	0.6	471.5	
132.9	CARBONDALE		UNCLASSIFIED	2.3	472.1	SHALE ABOVE BRERETON LIMESTONE
130.6	CARBONDALE	BRERETON	LIMESTONE	2.3	474.4	
128.3	CARBONDALE	ANNA	BLACK SHALE	2.3	476.7	
126.0	CARBONDALE	HERRIN	COAL	7.2	479.0	

MAPID: 00500663000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 8 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.460278 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 38.977042 **DATE COLLECTED:** 0 / 0 / 1906
SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 296.0 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
604.0			UNCONSOLIDATED	145.0	0.0	
459.0			ROCK	99.8	145.0	
359.2			COAL	0.7	244.8	
358.6			ROCK	209.2	245.4	
149.4			SHALE	8.4	454.6	
141.0			LIMESTONE	7.0	463.0	
134.0			SHALE	0.8	470.0	
133.2			LIMESTONE	1.3	470.8	
132.0			SHALE	0.6	472.0	
131.4			BLACK SHALE	6.8	472.6	
124.7	CARBONDALE	HERRIN	COAL	7.2	479.3	
117.5			ROCK	9.5	486.5	

MAPID: 00500015000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.44633 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.975179 **DATE COLLECTED:** 0 / 0 / 1912
SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 472.1 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
156.7	MODESTO	PIASA	LIMESTONE	4.5	422.3	
152.2	MODESTO		UNCLASSIFIED	3.0	426.8	INTERVAL ABOVE DANVILLE, BELOW PIASA
149.2	CARBONDALE		UNCLASSIFIED	17.0	429.8	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
132.2	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	12.3	446.8	
119.9	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	459.1	
118.6	CARBONDALE		UNCLASSIFIED	1.3	460.4	SHALE ABOVE BRERETON LIMESTONE
117.3	CARBONDALE	BRERETON	LIMESTONE	1.3	461.7	
116.0	CARBONDALE	ANNA	BLACK SHALE	2.0	463.0	
114.0	CARBONDALE	HERRIN	COAL	7.1	465.0	

MAPID: 00500015000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.44633 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.975179 **DATE COLLECTED:** 0 / 0 / 1912

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 473.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
590.0			UNCONSOLIDATED	160.0	0.0	
430.0			ROCK	56.0	160.0	
374.0			COAL	1.0	216.0	
373.0			ROCK	6.0	217.0	
367.0			COAL	0.8	223.0	
366.2			ROCK	211.3	223.8	
155.0			SHALE	12.0	435.0	
143.0			LIMESTONE	1.0	447.0	
142.0			SHALE	2.0	448.0	
140.0			LIMESTONE	9.3	450.0	
130.7			SHALE	3.8	459.3	
127.0			BLACK SHALE	2.0	463.0	
125.0	CARBONDALE	HERRIN	COAL	7.1	465.0	
117.9			ROCK	0.9	472.1	

MAPID: 00500015000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.44633 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.975179 **DATE COLLECTED:** 0 / 0 / 1912

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 473.0 **LOG TYPE:**

SOURCE: PEABODY 0013 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
114.0	CARBONDALE	HERRIN	COAL	7.1	465.0	

MAPID: 00500219000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 2582' S line, 2210' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.439711 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.981368 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 503.3 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 8 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
132.0	MODESTO	PIASA	LIMESTONE	2.0	463.0	
130.0	MODESTO		SHALE	7.5	465.0	
122.5	CARBONDALE		SHALE	5.5	472.5	
117.0	CARBONDALE		BLACK SHALE	1.5	478.0	
115.5	CARBONDALE		GRAY SHALE	4.0	479.5	
111.5	CARBONDALE	BANKSTON FORK	LIMESTONE	8.5	483.5	LOWER BENCH
103.0	CARBONDALE	LAWSON	MOTTLED SHALE	2.0	492.0	
101.0	CARBONDALE	BRERETON	LIMESTONE	1.2	494.0	
99.8	CARBONDALE	ANNA	BLACK SHALE	0.8	495.2	
99.0	CARBONDALE	HERRIN	COAL	7.3	496.0	

MAPID: 00500219000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 2582' S line, 2210' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.439711 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.981368 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 504.3 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 8 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
135.7	MODESTO	PIASA	LIMESTONE	1.7	459.3	
134.0	MODESTO		UNCLASSIFIED	8.1	461.0	
125.9	CARBONDALE	DANVILLE	COAL	0.1	469.1	
125.8	CARBONDALE		UNCLASSIFIED	10.6	469.2	
115.2	CARBONDALE	BANKSTON FORK	LIMESTONE	8.6	479.8	
106.6	CARBONDALE	ANVIL ROCK	SANDSTONE	2.0	488.4	
104.6	CARBONDALE		SHALE	4.6	490.4	
100.0	CARBONDALE	BRERETON	LIMESTONE	1.2	495.0	
98.8	CARBONDALE	ANNA	BLACK SHALE	0.8	496.2	
98.0	CARBONDALE	HERRIN	COAL	7.3	497.0	

MAPID: 00500219000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** 2582' S line, 2210' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.439711 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.981368 **DATE COLLECTED:** 9 / 0 / 1944
SURFACE ELEVATION (FT.): 594.8 **LOGGED (FT.):** 505.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 8 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
395.8			COAL	0.0	199.0	
374.8			COAL	2.0	220.0	
196.5			COAL	0.5	398.3	
98.3	CARBONDALE	HERRIN	COAL	7.3	496.5	

MAPID: 00590010000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 9 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.429814 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 38.975109 **DATE COLLECTED:** 11 / 16 / 1914
SURFACE ELEVATION (FT.): 598.0 **LOGGED (FT.):** 472.1 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. #13 **WELL TYPE:** Coal Test
COMMENT: MAP 15-K-Z

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
598.0			UNKNOWN	465.0	0.0	
133.0	CARBONDALE	HERRIN	COAL	7.1	465.0	

MAPID: 00500016000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW NE NW NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.42578 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.987345 **DATE COLLECTED:** 10 / 0 / 1912
SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 436.2 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.3	CARBONDALE		UNCLASSIFIED	5.0	407.7	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
129.3	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	412.7	
120.3	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	421.7	
117.3	CARBONDALE		UNCLASSIFIED	3.0	424.7	SHALE ABOVE BRERETON LIMESTONE
114.3	CARBONDALE	BRERETON	LIMESTONE	2.3	427.7	
112.0	CARBONDALE	HERRIN	COAL	6.2	430.0	

MAPID: 00500016000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW NE NW NW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.42578 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.987345 **DATE COLLECTED:** 10 / 22 / 1912

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 439.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
542.0			UNCONSOLIDATED	101.0	0.0	
441.0			ROCK	242.0	101.0	
199.0			COAL	0.8	343.0	
198.2			ROCK	62.2	343.8	
136.0			SHALE	7.0	406.0	
129.0			LIMESTONE	4.0	413.0	
125.0			SHALE	11.0	417.0	
114.0			LIMESTONE	2.3	428.0	
111.7	CARBONDALE	HERRIN	COAL	6.2	430.3	
105.6			ROCK	0.0	436.4	

MAPID: 00500016000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW NE NW NW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.42578 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.987345 **DATE COLLECTED:** 0 / 0 / 1912

SURFACE ELEVATION (FT.): 542.2 **LOGGED (FT.):** 439.0 **LOG TYPE:**

SOURCE: PEABODY 0003 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
112.2	CARBONDALE	HERRIN	COAL	6.2	430.0	

MAPID: 00500220000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** 2434' S line, 2595' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.419445 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.980952 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 461.8 **LOG TYPE:** Survey Core Study

SOURCE: PEABODY COAL CO. 9 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
167.0	MODESTO	PIASA	LIMESTONE	1.9	409.0	
165.1	MODESTO		SHALE	16.0	410.9	
149.1	CARBONDALE		BLACK SHALE	7.0	426.9	
142.1	CARBONDALE		CALCAREOUS SHALE	2.0	433.9	
140.1	CARBONDALE	BANKSTON FORK	LIMESTONE	11.7	435.9	LOWER BENCH
128.4	CARBONDALE	ANNA	BLACK SHALE	2.5	447.6	
120.0	CARBONDALE	HERRIN	COAL	5.8	456.0	

MAPID: 00500220000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** 2434' S line, 2595' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.419445 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.980952 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 461.8 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 9 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
161.2	MODESTO	PIASA	LIMESTONE	1.9	414.8	
159.3	MODESTO		UNCLASSIFIED	7.8	416.7	
151.5	CARBONDALE		UNCLASSIFIED	17.3	424.5	
134.2	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	441.8	
127.2	CARBONDALE	ANVIL ROCK	SANDSTONE	1.5	448.8	
125.7	CARBONDALE		SHALE	1.7	450.3	
124.0	CARBONDALE	BRERETON	LIMESTONE	1.5	452.0	
122.5	CARBONDALE	ANNA	BLACK SHALE	2.5	453.5	
120.0	CARBONDALE	HERRIN	COAL	5.8	456.0	

MAPID: 00500220000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** 2434' S line, 2595' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.419445 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.980952 **DATE COLLECTED:** 10 / 0 / 1944

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 462.8 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 9 **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
387.2			COAL	0.1	188.8	
373.5			COAL	0.2	202.5	
335.0			COAL	0.1	241.0	
119.8	CARBONDALE	HERRIN	COAL	5.8	456.2	

MAPID: 00500515000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 10 **QUARTERS/FOOTAGES:** NW NW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.42635 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.986887 **DATE COLLECTED:** 10 / 22 / 1912

SURFACE ELEVATION (FT.): 560.9 **LOGGED (FT.):** 439.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 3 **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
452.9			LIMESTONE	4.0	108.0	
332.9			LIMESTONE	1.5	228.0	
217.9			COAL	0.8	343.0	
150.9			LIMESTONE	7.0	410.0	
141.9			LIMESTONE	11.3	419.0	
130.6	CARBONDALE	HERRIN	COAL	6.2	430.3	

MAPID: 00500017000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SW SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.381764 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.977582 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 582.0 **LOGGED (FT.):** 455.5 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.9	MODESTO	PIASA	LIMESTONE	1.5	409.1	
171.4	MODESTO		UNCLASSIFIED	6.3	410.6	INTERVAL ABOVE DANVILLE, BELOW PIASA
165.1	CARBONDALE		UNCLASSIFIED	17.5	416.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
147.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.8	434.4	
138.8	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	443.2	
137.8	CARBONDALE		UNCLASSIFIED	1.0	444.2	SHALE ABOVE BRERETON LIMESTONE
136.8	CARBONDALE	BRERETON	LIMESTONE	5.8	445.2	
131.0	CARBONDALE	HERRIN	COAL	4.5	451.0	

MAPID: 00500017000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SW SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.381764 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.977582 **DATE COLLECTED:** 8 / 31 / 1913

SURFACE ELEVATION (FT.): 582.0 **LOGGED (FT.):** 457.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
582.0			UNCONSOLIDATED	103.0	0.0	
479.0			ROCK	320.0	103.0	
159.0			SHALE	5.0	423.0	
154.0			LIMESTONE	3.0	428.0	
151.0			BLACK SHALE	2.5	431.0	
148.5			SHALE	1.0	433.5	
147.5			LIMESTONE	1.0	434.5	
146.5			SHALE	3.5	435.5	
143.0			LIMESTONE	1.3	439.0	
141.7			SHALE	5.0	440.3	
136.7			LIMESTONE	5.8	445.3	
131.0	CARBONDALE	HERRIN	COAL	4.5	451.0	
126.5			ROCK	1.5	455.5	

MAPID: 00500017000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SW SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.381764 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.977582 **DATE COLLECTED:** 0 / 0 / 1913

SURFACE ELEVATION (FT.): 582.0 **LOGGED (FT.):** 457.0 **LOG TYPE:**

SOURCE: PEABODY 0010 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
131.0	CARBONDALE	HERRIN	COAL	4.5	451.0	

MAPID: 00500518000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.380663 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.980328 **DATE COLLECTED:** 9 / 30 / 1913

SURFACE ELEVATION (FT.): 594.0 **LOGGED (FT.):** 457.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 10 **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
467.0			LIMESTONE	8.0	127.0	
184.8	SHELBURN	PIASA	LIMESTONE	1.5	409.2	
166.0	SHELBURN	GALUM	LIMESTONE	3.0	428.0	
159.6	SHELBURN	BANKSTON FORK	LIMESTONE	1.0	434.4	
155.0	SHELBURN	CONANT	LIMESTONE	1.3	439.0	
148.8	CARBONDALE	BRERETON	LIMESTONE	5.8	445.2	
143.0	CARBONDALE	HERRIN	COAL	4.5	451.0	

MAPID: 00500518000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.380663 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.980328 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 594.0 **LOGGED (FT.):** 455.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 10 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
184.8	MODESTO	PIASA	LIMESTONE	1.5	409.2	
183.3	MODESTO		VARRIGATED SHALE	12.3	410.7	
171.0	CARBONDALE		DARK GRAY SHALE	5.0	423.0	
166.0	CARBONDALE	GALUM	LIMESTONE	3.0	428.0	
163.0	CARBONDALE		BLACK SHALE	2.5	431.0	
160.5	CARBONDALE		SHALE	1.0	433.5	
159.5	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	434.5	LOWER BENCH
158.5	CARBONDALE	LAWSON	SHALE	3.5	435.5	
155.0	CARBONDALE	CONANT	LIMESTONE	1.3	439.0	
153.7	CARBONDALE		CALCAREOUS SHALE	5.0	440.3	
148.7	CARBONDALE	BRERETON	LIMESTONE	5.8	445.3	
143.0	CARBONDALE	HERRIN	COAL	4.5	451.0	

MAPID: 00501255000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 14 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.393046 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.965546 **DATE COLLECTED:** 10 / 0 / 1967
SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 426.0 **LOG TYPE:** Electric Log
SOURCE: BAY OIL CO., INC. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
176.5	MODESTO	PIASA	LIMESTONE	3.5	387.5	
173.0	MODESTO		UNCLASSIFIED	5.5	391.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
167.5	CARBONDALE		UNCLASSIFIED	14.0	396.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
153.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	410.5	
144.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	419.5	
143.0	CARBONDALE		UNCLASSIFIED	1.5	421.0	SHALE ABOVE BRERETON LIMESTONE
141.5	CARBONDALE	BRERETON	LIMESTONE	1.0	422.5	
140.5	CARBONDALE	ANNA	BLACK SHALE	0.5	423.5	
140.0	CARBONDALE	HERRIN	COAL	2.0	424.0	

MAPID: 00500221000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 2605' N line, 2615' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.419485 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.967041 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 461.8 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 12 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
145.0	MODESTO	PIASA	LIMESTONE	4.5	420.0	
140.5	MODESTO		LIMESTONE W/ SHALE	10.5	424.5	
130.0	CARBONDALE		DARK GRAY SHALE	2.0	435.0	
128.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.5	437.0	LOWER BENCH
121.5	CARBONDALE	LAWSON	DARK GRAY SHALE	5.5	443.5	
116.0	CARBONDALE	ANNA	DARK GRAY SHALE	4.0	449.0	
109.0	CARBONDALE	HERRIN	COAL	5.8	456.0	

MAPID: 00500221000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 2605' N line, 2615' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.419485 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.967041 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 461.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 12 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
149.0	MODESTO	PIASA	LIMESTONE	4.5	416.0	
144.5	MODESTO		UNCLASSIFIED	5.0	420.5	
139.5	CARBONDALE		UNCLASSIFIED	14.5	425.5	
125.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.5	440.0	
118.5	CARBONDALE	ANVIL ROCK	SANDSTONE	2.5	446.5	
116.0	CARBONDALE		SHALE	3.0	449.0	
113.0	CARBONDALE	BRERETON	LIMESTONE	2.0	452.0	
111.0	CARBONDALE	ANNA	BLACK SHALE	2.0	454.0	
109.0	CARBONDALE	HERRIN	COAL	5.8	456.0	

MAPID: 00500221000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 2605' N line, 2615' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.419485 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.967041 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 565.2 **LOGGED (FT.):** 466.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 12 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
398.8			COAL	0.6	166.4	
365.2			COAL	1.0	200.0	
109.2	CARBONDALE	HERRIN	COAL	5.8	456.0	

MAPID: 00500692000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.418265 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.973324 **DATE COLLECTED:** 11 / 0 / 1944
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Electric Log
SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
156.5	MODESTO	PIASA	LIMESTONE	3.5	405.5	
153.0	MODESTO		UNCLASSIFIED	6.5	409.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
146.5	CARBONDALE		UNCLASSIFIED	16.5	415.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
130.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	432.0	
121.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	441.0	
119.5	CARBONDALE		UNCLASSIFIED	1.5	442.5	SHALE ABOVE BRERETON LIMESTONE
118.0	CARBONDALE	BRERETON	LIMESTONE	1.0	444.0	
117.0	CARBONDALE	ANNA	BLACK SHALE	2.0	445.0	
115.0	CARBONDALE	HERRIN	COAL	5.0	447.0	

MAPID: 00570021000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 15 **QUARTERS/FOOTAGES:** 600' N line, 1980' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.417223 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 38.972583 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 972.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 04C692 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
562.0			NO RECORD	138.0	0.0	
424.0			LIMESTONE	7.0	138.0	
417.0			SHALE	195.0	145.0	
222.0			SANDY SHALE	190.0	340.0	FOSSIL SHELLS
32.0	CARBONDALE	COLCHESTER	COAL	6.0	530.0	UNCERTAIN CORRELATION
26.0			SANDY SHALE	204.0	536.0	FOSSIL SHELLS
-178.0			LIMESTONE	130.0	740.0	
-308.0			SANDY SHALE	102.0	870.0	FOSSIL SHELLS

MAPID: 00500222000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 50' S line, 2620' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.438096 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.959916 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 474.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 14 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
148.7	MODESTO	PIASA	LIMESTONE	3.3	425.3	
145.5	MODESTO		SHALE	5.8	428.5	
139.7	CARBONDALE		SHALE & SILTSTONE	9.0	434.3	
130.7	CARBONDALE		BLACK SHALE	5.0	443.3	
125.7	CARBONDALE		DARK GRAY SHALE	1.4	448.3	
124.3	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	449.7	LOWER BENCH
117.3	CARBONDALE	LAWSON	GRAY SHALE	4.0	456.7	
113.3	CARBONDALE	LAWSON	BLACK SHALE	2.6	460.7	
110.7	CARBONDALE	ANNA	BLACK SHALE	4.8	463.3	
106.0	CARBONDALE	HERRIN	COAL	6.8	468.0	

MAPID: 00500222000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 50' S line, 2620' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.438096 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.959916 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 476.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 14 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.8	MODESTO	PIASA	LIMESTONE	3.3	427.2	
143.5	MODESTO		UNCLASSIFIED	4.8	430.5	
138.7	CARBONDALE		UNCLASSIFIED	16.4	435.3	
122.3	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	451.7	
115.3	CARBONDALE	ANVIL ROCK	SANDSTONE	4.0	458.7	
111.3	CARBONDALE		SHALE	2.6	462.7	
108.7	CARBONDALE	BRERETON	LIMESTONE	2.4	465.3	
106.3	CARBONDALE	ANNA	BLACK SHALE	2.3	467.7	
104.0	CARBONDALE	HERRIN	COAL	6.8	470.0	

MAPID: 00500222000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 16 **QUARTERS/FOOTAGES:** 50' S line, 2620' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.438096 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.959916 **DATE COLLECTED:** 12 / 0 / 1945
SURFACE ELEVATION (FT.): 573.9 **LOGGED (FT.):** 477.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 14 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
106.1	CARBONDALE	HERRIN	COAL	6.8	467.8	

MAPID: 00500223000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 17 **QUARTERS/FOOTAGES:** 642' N line, 1277' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.452012 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.972509 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 487.3 **LOG TYPE:** Survey Core Study

SOURCE: PEABODY COAL CO. 11 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
157.0	MODESTO	PIASA	LIMESTONE	3.5	440.0	
153.5	MODESTO		SHALE	16.8	443.5	
136.7	CARBONDALE		GRAY SHALE	4.0	460.3	
132.7	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	464.3	LOWER BENCH
123.7	CARBONDALE	LAWSON	GRAY SHALE	2.3	473.3	
121.5	CARBONDALE	ANNA	CALCAREOUS SHALE	5.8	475.5	
116.0	CARBONDALE	HERRIN	COAL	6.3	481.0	

MAPID: 00500223000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 17 **QUARTERS/FOOTAGES:** 642' N line, 1277' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.452012 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.972509 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 486.3 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 11 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
152.9	MODESTO	PIASA	LIMESTONE	3.8	444.1	
149.1	MODESTO		UNCLASSIFIED	2.3	447.9	
146.8	CARBONDALE		UNCLASSIFIED	13.5	450.2	
133.3	CARBONDALE	BANKSTON FORK	LIMESTONE	8.3	463.7	
125.0	CARBONDALE	ANVIL ROCK	SANDSTONE	3.2	472.0	
121.8	CARBONDALE		SHALE	3.2	475.2	
118.6	CARBONDALE	BRERETON	LIMESTONE	1.6	478.4	
117.0	CARBONDALE	HERRIN	COAL	6.3	480.0	

MAPID: 00500223000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 17 **QUARTERS/FOOTAGES:** 642' N line, 1277' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.452012 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.972509 **DATE COLLECTED:** 8 / 0 / 1944
SURFACE ELEVATION (FT.): 597.4 **LOGGED (FT.):** 488.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 11 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
350.4			COAL	1.9	247.0	
347.0			COAL	0.3	250.4	
117.2	CARBONDALE	HERRIN	COAL	6.3	480.2	

MAPID: 00500004000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 18 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.477228 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.960593 **DATE COLLECTED:** 0 / 0 / 1932
SURFACE ELEVATION (FT.): 594.2 **LOGGED (FT.):** 1080.0 **LOG TYPE:**
SOURCE: ASHBY 0001 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
104.2	CARBONDALE	HERRIN	COAL	7.0	490.0	

MAPID: 00500004000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 18 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.477228 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.960593 **DATE COLLECTED:** 10 / 0 / 1932
SURFACE ELEVATION (FT.): 594.0 **LOGGED (FT.):** 497.0 **LOG TYPE:** Drillers Log
SOURCE: ASHBY, ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
144.0	MODESTO	PIASA	LIMESTONE	6.0	450.0	
138.0	MODESTO		UNCLASSIFIED	3.0	456.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
135.0	CARBONDALE		UNCLASSIFIED	11.0	459.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
124.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	470.0	
116.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	477.5	
115.0	CARBONDALE		UNCLASSIFIED	2.0	479.0	SHALE ABOVE BRERETON LIMESTONE
113.0	CARBONDALE	BRERETON	LIMESTONE	4.0	481.0	
109.0	CARBONDALE	ANNA	BLACK SHALE	5.0	485.0	
104.0	CARBONDALE	HERRIN	COAL	7.0	490.0	

MAPID: 00500243000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 18 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472292 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.969744 **DATE COLLECTED:** 3 / 0 / 1945
SURFACE ELEVATION (FT.): 603.0 **LOGGED (FT.):** 500.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 10 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	CARBONDALE	HERRIN	COAL	7.0	480.0	

MAPID: 00500243000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 18 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472292 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.969744 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 603.0 **LOGGED (FT.):** 487.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 10 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.0	CARBONDALE	HERRIN	COAL	7.0	480.0	

MAPID: 00500455000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 1650' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472011 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.946079 **DATE COLLECTED:** 7 / 0 / 1956
SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log
SOURCE: WAUSAU PETRO. CORP. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
178.0	MODESTO	PIASA	LIMESTONE	4.0	401.0	
174.0	MODESTO		UNCLASSIFIED	7.5	405.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
166.5	CARBONDALE		UNCLASSIFIED	12.5	412.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	425.0	
147.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	432.0	
144.0	CARBONDALE		UNCLASSIFIED	3.0	435.0	SHALE ABOVE BRERETON LIMESTONE
141.0	CARBONDALE	BRERETON	LIMESTONE	2.0	438.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	2.0	440.0	
137.0	CARBONDALE	HERRIN	COAL	5.0	442.0	

MAPID: 00500455000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 1650' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472011 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.946079 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 451.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.0	MODESTO	PIASA	LIMESTONE	3.5	406.0	
169.5	CARBONDALE		SHALE	20.0	409.5	
149.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	429.5	LOWER BENCH
143.5	CARBONDALE	LAWSON	SHALE	6.0	435.5	
137.5	CARBONDALE	ANNA	SHALE	4.0	441.5	
133.0	CARBONDALE	HERRIN	COAL	5.0	446.0	

MAPID: 00500224000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** 2566' N line, 53' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.465962 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.95267 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 474.8 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 13 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.0	MODESTO	PIASA	CALCAREOUS SHALE	12.0	435.0	
138.0	MODESTO		BLACK SHALE	2.0	447.0	
136.0	CARBONDALE		DARK GRAY SHALE	4.0	449.0	
132.0	CARBONDALE	BANKSTON FORK	LIMESTONE	8.0	453.0	LOWER BENCH
124.0	CARBONDALE	LAWSON	CALCAREOUS SHALE	6.0	461.0	
118.0	CARBONDALE	BRERETON	CALCAREOUS SHALE	0.4	467.0	
117.6	CARBONDALE	ANNA	BLACK SHALE	0.7	467.4	
117.0	CARBONDALE	HERRIN	COAL	6.8	468.0	

MAPID: 00500224000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** 2566' N line, 53' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.465962 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.95267 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 474.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 13 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
158.1	MODESTO	PIASA	LIMESTONE	3.0	426.9	
155.1	MODESTO		UNCLASSIFIED	6.0	429.9	
149.1	CARBONDALE		UNCLASSIFIED	18.0	435.9	
131.1	CARBONDALE	BANKSTON FORK	LIMESTONE	7.1	453.9	
124.0	CARBONDALE	ANVIL ROCK	SANDSTONE	4.4	461.0	
119.6	CARBONDALE		SHALE	1.5	465.4	
118.1	CARBONDALE	BRERETON	LIMESTONE	0.4	466.9	
117.7	CARBONDALE	ANNA	BLACK SHALE	0.7	467.3	
117.0	CARBONDALE	HERRIN	COAL	6.8	468.0	

MAPID: 00500224000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** 2566' N line, 53' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.465962 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.95267 **DATE COLLECTED:** 2 / 0 / 1945
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 478.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 13 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
117.0	CARBONDALE	HERRIN	COAL	6.8	468.0	

MAPID: 00500598000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.448572 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.946146 **DATE COLLECTED:** 6 / 0 / 1953

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 423.0 **LOG TYPE:** Electric Log

SOURCE: DUNCAN, WALTER OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
189.1	MODESTO	PIASA	LIMESTONE	3.0	375.9	
186.1	MODESTO		UNCLASSIFIED	7.5	378.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
178.6	CARBONDALE	DANVILLE	COAL	2.0	386.4	
176.6	CARBONDALE		UNCLASSIFIED	13.5	388.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
163.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	401.9	
156.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3	408.9	
152.8	CARBONDALE		UNCLASSIFIED	3.3	412.2	SHALE ABOVE BRERETON LIMESTONE
149.5	CARBONDALE	BRERETON	LIMESTONE	1.5	415.5	
148.0	CARBONDALE	ANNA	BLACK SHALE	2.0	417.0	
146.0	CARBONDALE	HERRIN	COAL	4.0	419.0	

MAPID: 00500018000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.43461 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.955188 **DATE COLLECTED:** 0 / 0 / 1910

SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
544.0			UNCONSOLIDATED	50.0	0.0	
494.0			ROCK	343.0	50.0	
151.0			SHALE	12.0	393.0	
139.0			BLACK SHALE	7.0	405.0	
132.0			UNDERCLAY	2.0	412.0	
130.0			SHALE	10.0	414.0	
120.0			LIMESTONE	3.0	424.0	
117.0	CARBONDALE	HERRIN	COAL	6.0	427.0	
111.0			ROCK	2.0	433.0	

MAPID: 00500018000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.43461 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.955188 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 433.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
158.0	MODESTO	PIASA	LIMESTONE	3.0	386.0	
155.0	MODESTO		SHALE	16.0	389.0	
139.0	CARBONDALE		BLACK SHALE	7.0	405.0	
132.0	CARBONDALE		CLAYSTONE	2.0	412.0	
130.0	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	414.0	LOWER BENCH
120.0	CARBONDALE	BRERETON	LIMESTONE	3.0	424.0	
117.0	CARBONDALE	HERRIN	COAL	6.0	427.0	

MAPID: 00500018000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.43461 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.955188 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 433.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
158.0	MODESTO	PIASA	LIMESTONE	3.0	386.0	
155.0	MODESTO		UNCLASSIFIED	4.0	389.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
151.0	CARBONDALE		UNCLASSIFIED	19.0	393.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
132.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	412.0	
124.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	420.0	
121.5	CARBONDALE		UNCLASSIFIED	1.5	422.5	SHALE ABOVE BRERETON LIMESTONE
120.0	CARBONDALE	BRERETON	LIMESTONE	3.0	424.0	
117.0	CARBONDALE	HERRIN	COAL	6.0	427.0	

MAPID: 00500018000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.43461 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.955188 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 435.0 **LOG TYPE:**
SOURCE: PEABODY **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
117.0	CARBONDALE	HERRIN	COAL	6.0	427.0	

MAPID: 00500085000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** 1300' N line, 960' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.444018 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.956281 **DATE COLLECTED:** 0 / 0 / 1917
SURFACE ELEVATION (FT.): 545.2 **LOGGED (FT.):** 1100.0 **LOG TYPE:**
SOURCE: OHIO OIL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
101.2	CARBONDALE	HERRIN	COAL	5.0	444.0	

MAPID: 00500096000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** 200' S line, 660' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.431041 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.945744 **DATE COLLECTED:** 0 / 0 / 1917
SURFACE ELEVATION (FT.): 537.5 **LOGGED (FT.):** 1090.0 **LOG TYPE:**
SOURCE: OHIO OIL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
130.5	CARBONDALE	HERRIN	COAL	6.0	407.0	

MAPID: 00500096000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** 200' S line, 660' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.431041 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.945744 **DATE COLLECTED:** 0 / 0 / 1917
SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Drillers Log
SOURCE: NO COMPANY **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
145.0	CARBONDALE	HERRIN	COAL	6.0	407.0	

MAPID: 00590009000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.43461 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.955188 **DATE COLLECTED:** 11 / 16 / 1914

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 433.0 **LOG TYPE:** Company map

SOURCE: PEABODY COAL CO. A **WELL TYPE:** Coal Test

COMMENT: MAP 15-K-Z

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-			UNKNOWN	427.0	0.0	
-	CARBONDALE	HERRIN	COAL	6.0	427.0	

MAPID: 00500225000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 1364' N line, 1344' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.424048 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.955886 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 442.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 15 **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
167.7	MODESTO	PIASA	LIMESTONE	7.0	393.3	
160.7	MODESTO		SHALE	6.0	400.3	
154.7	CARBONDALE		GRAY SHALE	3.5	406.3	
151.2	CARBONDALE		BLACK SHALE	10.2	409.8	
141.0	CARBONDALE		GRAY SHALE	1.0	420.0	
140.0	CARBONDALE	BANKSTON FORK	LIMESTONE	8.2	421.0	LOWER BENCH
131.8	CARBONDALE	LAWSON	CLAYSTONE	0.7	429.2	
131.2	CARBONDALE	LAWSON	SILTSTONE	2.7	429.8	
128.5	CARBONDALE		GRAY SHALE	2.3	432.5	
126.2	CARBONDALE	BRERETON	LIMESTONE	0.8	434.8	
125.3	CARBONDALE	ANNA	BLACK SHALE	0.3	435.7	
125.0	CARBONDALE	HERRIN	COAL	6.0	436.0	

MAPID: 00500225000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 1364' N line, 1344' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.424048 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.955886 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 442.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 15 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
166.8	MODESTO	PIASA	LIMESTONE	7.0	394.2	
159.8	MODESTO		UNCLASSIFIED	6.0	401.2	
153.8	CARBONDALE		UNCLASSIFIED	14.7	407.2	
139.1	CARBONDALE	BANKSTON FORK	LIMESTONE	8.2	421.9	
130.9	CARBONDALE	ANVIL ROCK	SANDSTONE	3.3	430.1	
127.6	CARBONDALE		SHALE	2.3	433.4	
125.3	CARBONDALE	ANNA	BLACK SHALE	0.3	435.7	
125.0	CARBONDALE	HERRIN	COAL	6.0	436.0	

MAPID: 00500225000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 1364' N line, 1344' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.424048 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.955886 **DATE COLLECTED:** 11 / 0 / 1944
SURFACE ELEVATION (FT.): 561.5 **LOGGED (FT.):** 443.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 15 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
125.9	CARBONDALE	HERRIN	COAL	6.0	435.6	

MAPID: 00500409000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 22 **QUARTERS/FOOTAGES:** 390' N line, 330' W line of SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.418333 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.951379 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 404.0 **LOG TYPE:** Electric Log

SOURCE: UNGER, STEGALL & SHAW **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.0	MODESTO	PIASA	LIMESTONE	3.5	357.0	
191.5	MODESTO		UNCLASSIFIED	5.5	360.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
186.0	CARBONDALE		UNCLASSIFIED	19.0	366.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
167.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	385.0	
157.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	395.0	
155.0	CARBONDALE		UNCLASSIFIED	2.0	397.0	SHALE ABOVE BRERETON LIMESTONE
153.0	CARBONDALE	BRERETON	LIMESTONE	1.0	399.0	
152.0	CARBONDALE	ANNA	BLACK SHALE	1.0	400.0	
151.0	CARBONDALE	HERRIN	COAL	3.0	401.0	

MAPID: 00500019000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.398704 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.958174 **DATE COLLECTED:** 10 / 0 / 1913

SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 463.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.1	MODESTO	PIASA	LIMESTONE	3.0	419.9	
147.1	MODESTO		UNCLASSIFIED	3.0	422.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
144.1	CARBONDALE		UNCLASSIFIED	14.0	425.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
130.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	12.3	439.9	
117.8	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.2	452.2	
116.6	CARBONDALE		UNCLASSIFIED	0.3	453.4	SHALE ABOVE BRERETON LIMESTONE
116.3	CARBONDALE	BRERETON	LIMESTONE	4.3	453.7	
112.0	CARBONDALE	HERRIN	COAL	5.0	458.0	

MAPID: 00500019000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.398704 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 38.958174 **DATE COLLECTED:** 10 / 2 / 1913
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY C C **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
570.0			UNCONSOLIDATED	100.0	0.0	
470.0			ROCK	335.0	100.0	
135.0			LIMESTONE	7.0	435.0	
128.0			BLACK SHALE	3.0	442.0	
125.0			LIMESTONE	7.8	445.0	
117.2			SHALE	1.4	452.8	
115.7			LIMESTONE	4.3	454.3	
111.5	CARBONDALE	HERRIN	COAL	5.0	458.5	
106.5			ROCK	1.5	463.5	

MAPID: 00500019000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.398704 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.958174 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 570.4 **LOGGED (FT.):** 465.0 **LOG TYPE:**
SOURCE: PEABODY 0011 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
111.4	CARBONDALE	HERRIN	COAL	5.0	459.0	

MAPID: 00500519000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.398704 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.958174 **DATE COLLECTED:** 10 / 2 / 1913

SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 465.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 11 **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
458.0			LIMESTONE	7.7	126.0	
163.5	SHELBURN	PIASA	LIMESTONE	3.0	420.5	
143.5	SHELBURN	GALUM	LIMESTONE	1.5	440.5	
139.0	SHELBURN	BANKSTON FORK	LIMESTONE	7.8	445.0	
129.8	CARBONDALE	BRERETON	LIMESTONE	4.3	454.2	
125.5	CARBONDALE	HERRIN	COAL	5.0	458.5	

MAPID: 00500519000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.398704 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.958174 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 464.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 11 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.0	MODESTO	PIASA	LIMESTONE	3.0	421.0	
160.0	MODESTO		SHALE	11.5	424.0	
148.5	CARBONDALE		CALCAREOUS SHALE	5.5	435.5	
143.0	CARBONDALE	GALUM	LIMESTONE	1.5	441.0	
141.5	CARBONDALE		BLACK SHALE	3.0	442.5	
138.5	CARBONDALE	BANKSTON FORK	LIMESTONE	7.8	445.5	LOWER BENCH
130.7	CARBONDALE	LAWSON	CALCAREOUS SHALE	1.4	453.3	
129.2	CARBONDALE		CALCAREOUS SHALE	1.4	454.8	
127.8	CARBONDALE	BRERETON	LIMESTONE	4.3	456.2	
125.0	CARBONDALE	HERRIN	COAL	5.0	459.0	

MAPID: 00500020000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NE SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.376725 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937715 **DATE COLLECTED:** 5 / 0 / 1913

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 471.7 **LOG TYPE:** Drillers Log

SOURCE: GUILFOYLE W H **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	MODESTO	PIASA	LIMESTONE	3.0	428.0	
124.0	MODESTO		UNCLASSIFIED	4.0	431.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
120.0	CARBONDALE		UNCLASSIFIED	14.0	435.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
106.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	449.0	
96.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	459.0	
95.0	CARBONDALE		UNCLASSIFIED	2.0	460.0	SHALE ABOVE BRERETON LIMESTONE
93.0	CARBONDALE	BRERETON	LIMESTONE	2.0	462.0	
91.0	CARBONDALE	ANNA	BLACK SHALE	2.0	464.0	
89.0	CARBONDALE	HERRIN	COAL	5.7	466.0	

MAPID: 00500020000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NE SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.376725 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.937715 **DATE COLLECTED:** 5 / 0 / 1913

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 473.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
555.0			UNCONSOLIDATED	77.0	0.0	
478.0			ROCK	111.3	77.0	
366.7			COAL	2.5	188.3	
364.2			ROCK	249.2	190.8	
115.0			BLACK SHALE	9.0	440.0	
106.0			LIMESTONE	10.0	449.0	
96.0			BLACK SHALE	7.0	459.0	"W/LIME PARTINGS"
89.0	CARBONDALE	HERRIN	COAL	5.7	466.0	
83.3			ROCK	1.3	471.7	

MAPID: 00500020000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.376725 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.937715 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 529.2 **LOGGED (FT.):** 473.0 **LOG TYPE:**
SOURCE: PEABODY 0006 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
63.2	CARBONDALE	HERRIN	COAL	5.7	466.0	

MAPID: 00500516000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.3825 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.938467 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 473.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 6 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
439.0			LIMESTONE	6.0	126.0	
376.7			COAL	2.5	188.3	
341.0			COAL	-	224.0	NO THICKNESS GIVEN
137.0	SHELBURN	PIASA	LIMESTONE	3.0	428.0	
116.0	SHELBURN	BANKSTON FORK	LIMESTONE	17.0	449.0	
99.0	CARBONDALE	HERRIN	COAL	5.7	466.0	

MAPID: 00500516000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.3825 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.938467 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 471.7 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 6 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.0	MODESTO	PIASA	LIMESTONE	3.0	428.0	
134.0	MODESTO		SHALE	5.0	431.0	
129.0	CARBONDALE		VARRIGATED SHALE	4.0	436.0	
125.0	CARBONDALE		BLACK SHALE	9.0	440.0	
116.0	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	449.0	LOWER BENCH
106.0	CARBONDALE	LAWSON	BLACK SHALE	3.0	459.0	
103.0	CARBONDALE	ANNA	BLACK SHALE	4.0	462.0	
99.0	CARBONDALE	HERRIN	COAL	5.7	466.0	

MAPID: 00500739000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.38131 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.935785 **DATE COLLECTED:** 12 / 0 / 1957

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 473.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.1	MODESTO	PIASA	LIMESTONE	3.0	427.9	
130.1	MODESTO		UNCLASSIFIED	8.0	430.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
122.1	CARBONDALE	DANVILLE	COAL	2.0	438.9	
120.1	CARBONDALE		UNCLASSIFIED	12.0	440.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
108.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	452.9	
98.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	462.4	
96.8	CARBONDALE		UNCLASSIFIED	1.8	464.2	SHALE ABOVE BRERETON LIMESTONE
95.0	CARBONDALE	BRERETON	LIMESTONE	1.0	466.0	
94.0	CARBONDALE	ANNA	BLACK SHALE	1.0	467.0	
93.0	CARBONDALE	HERRIN	COAL	5.0	468.0	

MAPID: 00500021000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** NE NE SW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.415453 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.941138 **DATE COLLECTED:** 10 / 0 / 1913

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 363.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.9	MODESTO	PIASA	LIMESTONE	4.0	320.1	
180.9	MODESTO		UNCLASSIFIED	3.0	324.1	INTERVAL ABOVE DANVILLE, BELOW PIASA
177.9	CARBONDALE		UNCLASSIFIED	14.0	327.1	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
163.9	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	341.1	
154.9	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	350.1	
153.9	CARBONDALE		UNCLASSIFIED	2.3	351.1	SHALE ABOVE BRERETON LIMESTONE
151.6	CARBONDALE	BRERETON	LIMESTONE	2.3	353.4	
149.3	CARBONDALE	ANNA	BLACK SHALE	2.3	355.7	
147.0	CARBONDALE	HERRIN	COAL	5.0	358.0	

MAPID: 00500021000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** NE NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.415453 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 38.941138 **DATE COLLECTED:** 10 / 20 / 1913
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 364.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY C C **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
505.0			UNCONSOLIDATED	58.0	0.0	
447.0			ROCK	19.0	58.0	
428.0			SHALE	42.7	77.0	
385.3			SHALE	0.3	119.7	COAL PARTINGS
385.0			COAL	3.0	120.0	
382.0			ROCK	203.5	123.0	
178.5			SHALE	6.5	326.5	
172.0			BLACK SHALE	7.5	333.0	
164.5			SHALE	3.5	340.5	
161.0			LIMESTONE	5.5	344.0	
155.5			BLACK SHALE	6.5	349.5	
149.0			LIMESTONE	0.6	356.0	
148.4			BLACK SHALE	0.7	356.6	
147.7	CARBONDALE	HERRIN	COAL	5.0	357.3	
142.7			ROCK	1.8	362.3	

MAPID: 00500021000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** NE NE SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.415453 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.941138 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 504.6 **LOGGED (FT.):** 364.0 **LOG TYPE:**
SOURCE: PEABODY 0012 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
147.6	CARBONDALE	HERRIN	COAL	5.0	357.0	

MAPID: 00500520000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:**

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.41949 **GEOLOGIST:** LOG BOOK

CONFIDENTIAL: N **LATITUDE:** 38.937916 **DATE COLLECTED:** 10 / 20 / 1913

SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 364.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 12 **WELL TYPE:** Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
446.0			LIMESTONE	6.0	58.0	
384.0			COAL	3.0	120.0	
204.0			LIMESTONE	5.0	300.0	
184.4	SHELBURN	PIASA	LIMESTONE	4.0	319.6	
160.0	SHELBURN	BANKSTON FORK	LIMESTONE	5.5	344.0	
148.0	CARBONDALE	BRERETON	LIMESTONE	0.6	356.0	
146.8	CARBONDALE	HERRIN	COAL	5.0	357.2	

MAPID: 00500520000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:**

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.41949 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.937916 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 362.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 12 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.2	MODESTO	PIASA	LIMESTONE	4.0	319.8	
180.2	MODESTO		SHALE	9.5	323.8	
170.7	CARBONDALE		BLACK SHALE	7.5	333.3	
163.2	CARBONDALE		CALCAREOUS SHALE	3.5	340.8	
159.7	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	344.3	LOWER BENCH
154.7	CARBONDALE	LAWSON	BLACK SHALE	6.5	349.3	
148.2	CARBONDALE	BRERETON	LIMESTONE	0.6	355.8	
147.7	CARBONDALE	ANNA	BLACK SHALE	0.7	356.3	
147.0	CARBONDALE	HERRIN	COAL	5.0	357.0	

MAPID: 00500697000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.420657 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937 **DATE COLLECTED:** 7 / 0 / 1957

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 360.0 **LOG TYPE:** Electric Log

SOURCE: RICHARDSON, M. H. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.0	MODESTO	PIASA	LIMESTONE	3.0	319.0	
177.0	MODESTO		UNCLASSIFIED	4.0	322.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
173.0	CARBONDALE		UNCLASSIFIED	15.0	326.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
158.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	341.0	
150.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	349.0	
148.0	CARBONDALE		UNCLASSIFIED	2.0	351.0	SHALE ABOVE BRERETON LIMESTONE
146.0	CARBONDALE	BRERETON	LIMESTONE	1.0	353.0	
145.0	CARBONDALE	ANNA	BLACK SHALE	2.0	354.0	
143.0	CARBONDALE	HERRIN	COAL	4.0	356.0	

MAPID: 00500022000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434553 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.944289 **DATE COLLECTED:** 0 / 0 / 1912

SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 366.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
203.0	MODESTO	PIASA	LIMESTONE	5.0	315.0	
198.0	MODESTO		UNCLASSIFIED	5.0	320.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
193.0	CARBONDALE		UNCLASSIFIED	19.0	325.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	344.0	
165.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	353.0	
164.0	CARBONDALE		UNCLASSIFIED	1.0	354.0	SHALE ABOVE BRERETON LIMESTONE
163.0	CARBONDALE	BRERETON	LIMESTONE	2.0	355.0	
161.0	CARBONDALE	ANNA	BLACK SHALE	2.0	357.0	
159.0	CARBONDALE	HERRIN	COAL	7.0	359.0	

MAPID: 00500022000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434553 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 38.944289 **DATE COLLECTED:** 0 / 0 / 1912
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 370.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY C C **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
518.0			UNCONSOLIDATED	124.0	0.0	
394.0			ROCK	112.3	124.0	
281.7			COAL	0.7	236.3	
281.0			ROCK	36.5	237.0	
244.5			COAL	0.5	273.5	
244.0			ROCK	61.0	274.0	
183.0			COAL	0.5	335.0	
182.5			UNDERCLAY	2.5	335.5	
180.0			SHALE	11.5	338.0	
168.5			LIMESTONE	3.5	349.5	
165.0			SHALE	2.0	353.0	
163.0			LIMESTONE	2.0	355.0	
161.0			BLACK SHALE	2.0	357.0	
159.0	CARBONDALE	HERRIN	COAL	7.0	359.0	
152.0			ROCK	4.0	366.0	

MAPID: 00500022000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434553 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.944289 **DATE COLLECTED:** 0 / 0 / 1912
SURFACE ELEVATION (FT.): 518.3 **LOGGED (FT.):** 370.0 **LOG TYPE:**
SOURCE: PEABODY **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
159.3	CARBONDALE	HERRIN	COAL	7.0	359.0	

MAPID: 00500088000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434553 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.944289 **DATE COLLECTED:** 0 / 0 / 1917
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 1150.0 **LOG TYPE:**
SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
158.0	CARBONDALE	HERRIN	COAL	5.0	360.0	

MAPID: 00500092000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.441589 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.942495 **DATE COLLECTED:** 0 / 0 / 1924
SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 895.0 **LOG TYPE:**
SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
158.0	CARBONDALE	HERRIN	COAL	6.0	370.0	

MAPID: 00500092000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.441589 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.942495 **DATE COLLECTED:** 0 / 0 / 1924
SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 376.0 **LOG TYPE:** Drillers Log
SOURCE: BOND COUNTY GAS CO. **WELL TYPE:** Producer-Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
158.0	CARBONDALE	HERRIN	COAL	6.0	370.0	

MAPID: 00500093000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.435759 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.939743 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.3 **LOGGED (FT.):** 0.0 **LOG TYPE:**
SOURCE: ILL POCH CC **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
110.3	CARBONDALE	HERRIN	COAL	6.5	380.0	

MAPID: 00500514000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434553 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.944289 **DATE COLLECTED:** 0 / 0 / 1912
SURFACE ELEVATION (FT.): 531.6 **LOGGED (FT.):** 370.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 2 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
295.3			COAL	0.7	236.3	
258.1			COAL	0.5	273.5	
216.6	SHELBURN	PIASA	LIMESTONE	5.0	315.0	
196.6	SHELBURN	DANVILLE	COAL	0.6	335.0	
185.6	SHELBURN	BANKSTON FORK	LIMESTONE	7.0	346.0	
176.6	CARBONDALE	BRERETON	LIMESTONE	2.0	355.0	
174.6	CARBONDALE	ANNA	SHALE	0.2	357.0	
172.6	CARBONDALE	HERRIN	COAL	7.0	359.0	

MAPID: 00500514000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434553 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.944289 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 531.0 **LOGGED (FT.):** 366.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 2 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
216.0	MODESTO	PIASA	LIMESTONE	5.0	315.0	
211.0	MODESTO		SHALE	15.0	320.0	
196.0	CARBONDALE	DANVILLE	COAL	0.5	335.0	
195.5	CARBONDALE		CLAYSTONE	2.5	335.5	
193.0	CARBONDALE		DARK GRAY SHALE	4.0	338.0	
189.0	CARBONDALE		DARK GRAY SHALE	4.0	342.0	
185.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	346.0	LOWER BENCH
178.0	CARBONDALE	LAWSON	SHALE	2.0	353.0	
176.0	CARBONDALE	BRERETON	LIMESTONE	2.0	355.0	
174.0	CARBONDALE	ANNA	BLACK SHALE	2.0	357.0	
172.0	CARBONDALE	HERRIN	COAL	7.0	359.0	

MAPID: 00500933000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 322' E line of NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.434521 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.944286 **DATE COLLECTED:** 7 / 0 / 1962

SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 357.5 **LOG TYPE:** Electric Log

SOURCE: WELKER, EMERSON **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
208.0	MODESTO	PIASA	LIMESTONE	4.0	315.0	
204.0	MODESTO		UNCLASSIFIED	5.0	319.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
199.0	CARBONDALE		UNCLASSIFIED	17.0	324.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
182.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	341.0	
175.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	348.0	
173.0	CARBONDALE		UNCLASSIFIED	2.0	350.0	SHALE ABOVE BRERETON LIMESTONE
171.0	CARBONDALE	BRERETON	LIMESTONE	1.0	352.0	
170.0	CARBONDALE	ANNA	BLACK SHALE	1.0	353.0	
169.0	CARBONDALE	HERRIN	COAL	3.5	354.0	

MAPID: 00500097000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** NE NW NW

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.462665 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.944296 **DATE COLLECTED:** 0 / 0 / 1932

SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 918.0 **LOG TYPE:**

SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
196.0	CARBONDALE	HERRIN	COAL	5.0	381.0	

MAPID: 00500097000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.462665 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.944296 **DATE COLLECTED:** 0 / 0 / 1932
SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Drillers Log
SOURCE: BOND COUNTY GAS CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
203.0	MODESTO	PIASA	LIMESTONE	3.0	374.0	
200.0	MODESTO		UNCLASSIFIED	2.0	377.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
198.0	CARBONDALE		UNCLASSIFIED	15.0	379.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
183.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	12.0	394.0	
171.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	406.0	
168.5	CARBONDALE		UNCLASSIFIED	2.5	408.5	SHALE ABOVE BRERETON LIMESTONE
166.0	CARBONDALE	BRERETON	LIMESTONE	1.0	411.0	
165.0	CARBONDALE	ANNA	BLACK SHALE	2.0	412.0	
163.0	CARBONDALE	HERRIN	COAL	6.0	414.0	

MAPID: 00500159000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1152' N line, 471' E line of NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.45848 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.942033 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 573.0 **LOGGED (FT.):** 925.0 **LOG TYPE:**
SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.0	CARBONDALE	HERRIN	COAL	7.0	410.0	

MAPID: 00500226000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.455626 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.944313 **DATE COLLECTED:** 1 / 0 / 1945
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 16 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
163.2	CARBONDALE	HERRIN	COAL	5.8	412.8	

MAPID: 00500226000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.455626 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.944313 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 481.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 16 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
147.7	MODESTO	PIASA	LIMESTONE	3.0	428.3	
144.7	MODESTO		UNCLASSIFIED	3.0	431.3	
141.7	CARBONDALE		UNCLASSIFIED	23.8	434.3	
117.9	CARBONDALE	BANKSTON FORK	LIMESTONE	7.1	458.1	
110.8	CARBONDALE	ANVIL ROCK	SANDSTONE	4.2	465.2	
106.6	CARBONDALE		SHALE	3.3	469.4	
103.3	CARBONDALE	BRERETON	LIMESTONE	3.3	472.7	
100.0	CARBONDALE	HERRIN	COAL	5.8	476.0	

MAPID: 00500227000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 77' S line, 1696' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.460208 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.930853 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 430.9 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 17 **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
187.0	MODESTO	PIASA	CALCAREOUS SHALE	3.0	371.0	
184.0	MODESTO		GRAY SHALE	8.0	374.0	
176.0	CARBONDALE		CALCAREOUS SHALE	15.0	382.0	
161.0	CARBONDALE		BLACK SHALE	6.0	397.0	
155.0	CARBONDALE		CALCAREOUS SHALE	10.0	403.0	
145.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.7	413.0	LOWER BENCH
140.3	CARBONDALE	LAWSON	GRAY SHALE	3.8	417.7	
136.5	CARBONDALE	BRERETON	LIMESTONE	1.0	421.5	
135.5	CARBONDALE	ANNA	BLACK SHALE	3.5	422.5	
134.0	CARBONDALE	HERRIN	COAL	6.9	424.0	

MAPID: 00500227000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 77' S line, 1696' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.460208 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.930853 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 430.9 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 17 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
176.5	MODESTO		UNCLASSIFIED	6.5	381.5	
170.0	CARBONDALE		UNCLASSIFIED	19.2	388.0	
150.8	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	407.2	
140.8	CARBONDALE	ANVIL ROCK	SANDSTONE	1.3	417.2	
139.5	CARBONDALE		SHALE	1.0	418.5	
138.5	CARBONDALE	BRERETON	LIMESTONE	1.0	419.5	
137.5	CARBONDALE	ANNA	BLACK SHALE	3.5	420.5	
134.0	CARBONDALE	HERRIN	COAL	6.9	424.0	

MAPID: 00500227000C **VERSION:** 3 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 77' S line, 1696' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.460208 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.930853 **DATE COLLECTED:** 1 / 0 / 1945
SURFACE ELEVATION (FT.): 558.2 **LOGGED (FT.):** 432.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 17 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.8	CARBONDALE	HERRIN	COAL	6.9	424.4	

MAPID: 00500626000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.448674 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937077 **DATE COLLECTED:** 5 / 0 / 1950

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 393.5 **LOG TYPE:** Electric Log

SOURCE: HIAWATHA OIL & GAS CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	CARBONDALE		UNCLASSIFIED	18.0	352.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
187.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	370.0	
178.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	379.0	
174.5	CARBONDALE		UNCLASSIFIED	3.5	382.5	SHALE ABOVE BRERETON LIMESTONE
171.0	CARBONDALE	BRERETON	LIMESTONE	2.5	386.0	
168.5	CARBONDALE	ANNA	BLACK SHALE	1.5	388.5	
167.0	CARBONDALE	HERRIN	COAL	3.5	390.0	

MAPID: 00500023000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2400' N line, 2350' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.474499 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.938529 **DATE COLLECTED:** 8 / 21 / 1912

SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
572.0			UNCONSOLIDATED	81.0	0.0	
491.0			ROCK	38.0	81.0	
453.0			COAL	1.5	119.0	
451.5			ROCK	241.5	120.5	
210.0			SHALE	33.0	362.0	
177.0			LIMESTONE	4.0	395.0	
173.0			SHALE	4.2	399.0	
168.8			BLACK SHALE	4.2	403.2	
164.7	CARBONDALE	HERRIN	COAL	7.7	407.3	
157.0			ROCK	4.0	415.0	

MAPID: 00500023000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2400' N line, 2350' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.474499 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.938529 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 414.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
167.3	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	394.7	
163.3	CARBONDALE	LAWSON	DARK GRAY SHALE	4.2	398.7	
159.2	CARBONDALE	ANNA	BLACK SHALE	4.2	402.8	
155.0	CARBONDALE	HERRIN	COAL	7.7	407.0	

MAPID: 00500023000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2400' N line, 2350' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.474499 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.938529 **DATE COLLECTED:** 0 / 0 / 1912
SURFACE ELEVATION (FT.): 562.2 **LOGGED (FT.):** 419.0 **LOG TYPE:**
SOURCE: PEABODY 1 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.2	CARBONDALE	HERRIN	COAL	7.7	407.0	

MAPID: 00500098000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.482327 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.944198 **DATE COLLECTED:** 0 / 0 / 1932
SURFACE ELEVATION (FT.): 595.1 **LOGGED (FT.):** 1013.0 **LOG TYPE:**
SOURCE: NEATHPAINT **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.1	CARBONDALE	HERRIN	COAL	10.0	462.0	

MAPID: 00500104000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2400' S line, 3750' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472813 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.937171 **DATE COLLECTED:** 0 / 0 / 1935
SURFACE ELEVATION (FT.): 571.6 **LOGGED (FT.):** 967.0 **LOG TYPE:**
SOURCE: BOND COGAS **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
162.6	CARBONDALE	HERRIN	COAL	6.0	409.0	

MAPID: 00500104000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2400' S line, 3750' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472813 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.937171 **DATE COLLECTED:** 0 / 0 / 1935
SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 416.0 **LOG TYPE:** Drillers Log
SOURCE: REA & EVANS, ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
202.0	MODESTO	PIASA	LIMESTONE	6.0	370.0	
196.0	MODESTO		UNCLASSIFIED	3.0	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
193.0	CARBONDALE		UNCLASSIFIED	16.0	379.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
177.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	395.0	
168.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	404.0	
166.5	CARBONDALE		UNCLASSIFIED	1.5	405.5	SHALE ABOVE BRERETON LIMESTONE
165.0	CARBONDALE	BRERETON	LIMESTONE	1.5	407.0	
163.5	CARBONDALE	ANNA	BLACK SHALE	1.5	408.5	
162.0	CARBONDALE	HERRIN	COAL	6.0	410.0	

MAPID: 00500105000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 1650' S line, 3800' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472644 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.935103 **DATE COLLECTED:** 0 / 0 / 1936
SURFACE ELEVATION (FT.): 571.1 **LOGGED (FT.):** 942.0 **LOG TYPE:**
SOURCE: RAY EVANS **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.1	CARBONDALE	HERRIN	COAL	7.0	416.0	

MAPID: 00500106000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.477373 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.936915 **DATE COLLECTED:** 0 / 0 / 1936
SURFACE ELEVATION (FT.): 572.7 **LOGGED (FT.):** 951.0 **LOG TYPE:**
SOURCE: RAY ETAL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
142.7	CARBONDALE	HERRIN	COAL	6.0	430.0	

MAPID: 00500120000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472337 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.933292 **DATE COLLECTED:** 0 / 0 / 1937
SURFACE ELEVATION (FT.): 578.3 **LOGGED (FT.):** 1002.0 **LOG TYPE:**
SOURCE: COMM O G **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
135.3	CARBONDALE	HERRIN	COAL	6.0	443.0	

MAPID: 00500120000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472337 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.933292 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 464.0 **LOG TYPE:** Drillers Log
SOURCE: COMMERCIAL OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
138.0	CARBONDALE	ANNA	BLACK SHALE	3.0	455.0	
135.0	CARBONDALE	HERRIN	COAL	6.0	458.0	

MAPID: 00500121000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 3250' S line, 3800' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.472628 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.93952 **DATE COLLECTED:** 0 / 0 / 1937
SURFACE ELEVATION (FT.): 571.6 **LOGGED (FT.):** 960.0 **LOG TYPE:**
SOURCE: COMM O G **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.6	CARBONDALE	HERRIN	COAL	4.0	416.0	

MAPID: 00500122000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** NW SE SW NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.482958 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.939169 **DATE COLLECTED:** 0 / 0 / 1938
SURFACE ELEVATION (FT.): 578.0 **LOGGED (FT.):** 1025.0 **LOG TYPE:**
SOURCE: NEATHERY **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
152.0	CARBONDALE	HERRIN	COAL	2.0	426.0	

MAPID: 00500735000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.477311 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.931429 **DATE COLLECTED:** 11 / 0 / 1957
SURFACE ELEVATION (FT.): 554.0 **LOGGED (FT.):** 435.5 **LOG TYPE:** Electric Log
SOURCE: CREST OIL CO., INC. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
152.0	CARBONDALE	DANVILLE	COAL	2.0	402.0	
150.0	CARBONDALE		UNCLASSIFIED	12.0	404.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
138.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	416.0	
130.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	424.0	
128.5	CARBONDALE		UNCLASSIFIED	1.5	425.5	SHALE ABOVE BRERETON LIMESTONE
127.0	CARBONDALE	BRERETON	LIMESTONE	1.5	427.0	
125.5	CARBONDALE	ANNA	BLACK SHALE	2.5	428.5	
123.0	CARBONDALE	HERRIN	COAL	4.5	431.0	

MAPID: 00570020000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2270' S line, 2720' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.476454 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.93679 **DATE COLLECTED:** 0 / 0 / 1936

SURFACE ELEVATION (FT.): 573.0 **LOGGED (FT.):** 916.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 10C106 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
573.0			UNCLASSIFIED	188.0	0.0	
385.0			COAL	2.0	188.0	
383.0			UNCLASSIFIED	219.0	190.0	
164.0				6.0	409.0	
158.0			LIMESTONE	15.0	415.0	
143.0	CARBONDALE	HERRIN	COAL	6.0	430.0	
137.0	CARBONDALE		DARK SHALE	39.0	436.0	
98.0	CARBONDALE	SPRINGFIELD	COAL	5.0	475.0	UNCERTAIN CORRELATION
93.0	CARBONDALE		DARK SHALE	60.0	480.0	
33.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	540.0	UNCERTAIN LOCATION
30.0	CARBONDALE		SANDSTONE	17.0	543.0	
13.0	CARBONDALE		SANDY SHALE	10.0	560.0	
3.0	CARBONDALE		SHALE	15.0	570.0	
-12.0	CARBONDALE	COLCHESTER	COAL	5.0	585.0	UNCERTAIN CORRELATION
-17.0			LIMESTONE	3.0	590.0	
-20.0			UNCLASSIFIED	367.0	593.0	

MAPID: 00590004000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 1875' N line, 2600' E line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.475382 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.939973 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 578.5 **LOGGED (FT.):** 415.0 **LOG TYPE:** Company map

SOURCE: PEABODY COAL CO. #1 **WELL TYPE:** Coal Test

COMMENT: COAL RIGHTS BOND CO; MAP RETURNED TO CO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
578.5			UNKNOWN	395.0	0.0	
183.5	CARBONDALE		LIMESTONE	4.0	395.0	
179.5	CARBONDALE		DARK SHALE	4.2	399.0	
175.3	CARBONDALE	ANNA	BLACK SHALE	4.2	403.2	
171.2	CARBONDALE	HERRIN	COAL	7.7	407.3	

MAPID: 00500024000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 50' S line, 1800' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.479761 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.916138 **DATE COLLECTED:** 7 / 0 / 1914

SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
89.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	425.0	
79.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	435.0	
78.0	CARBONDALE		UNCLASSIFIED	2.5	436.0	SHALE ABOVE BRERETON LIMESTONE
75.5	CARBONDALE	BRERETON	LIMESTONE	1.3	438.5	
74.2	CARBONDALE	ANNA	BLACK SHALE	2.2	439.8	
72.0	CARBONDALE	HERRIN	COAL	6.0	442.0	

MAPID: 00500024000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 50' S line, 1800' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.479761 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 38.916138 **DATE COLLECTED:** 7 / 31 / 1914

SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
514.0			UNCONSOLIDATED	88.0	0.0	
426.0			ROCK	96.2	88.0	
329.8			COAL	0.8	184.2	
329.0			ROCK	227.8	185.0	
101.2			SHALE	8.3	412.8	
93.0			LIMESTONE	2.0	421.0	
91.0			SHALE	2.0	423.0	
89.0			LIMESTONE	5.0	425.0	
84.0			SHALE	1.0	430.0	
83.0			LIMESTONE	4.0	431.0	
79.0			SHALE	3.5	435.0	
75.5			LIMESTONE	0.3	438.5	
75.2			SHALE	1.0	438.8	
74.2			BLACK SHALE	2.2	439.8	
72.0	CARBONDALE	HERRIN	COAL	6.0	442.0	
66.0			ROCK	4.0	448.0	

MAPID: 00500024000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 50' S line, 1800' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.479761 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.916138 **DATE COLLECTED:** 0 / 0 / 1914
SURFACE ELEVATION (FT.): 514.2 **LOGGED (FT.):** 452.0 **LOG TYPE:**
SOURCE: PEABODY 0018 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
72.2	CARBONDALE	HERRIN	COAL	6.0	442.0	

MAPID: 00500107000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 825' N line, 1800' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.47973 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.928225 **DATE COLLECTED:** 0 / 0 / 1936
SURFACE ELEVATION (FT.): 542.4 **LOGGED (FT.):** 1118.0 **LOG TYPE:**
SOURCE: RAY ETAL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
102.4	CARBONDALE	HERRIN	COAL	7.0	440.0	

MAPID: 00500107000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 825' N line, 1800' W line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.47973 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.928225 **DATE COLLECTED:** 8 / 0 / 1936
SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Drillers Log
SOURCE: RAY, F. S., ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
117.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	425.0	
110.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	432.0	
108.0	CARBONDALE		UNCLASSIFIED	2.0	434.0	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	BRERETON	LIMESTONE	2.0	436.0	
104.0	CARBONDALE	ANNA	BLACK SHALE	2.0	438.0	
102.0	CARBONDALE	HERRIN	COAL	7.0	440.0	

MAPID: 00500522000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.479927 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.916906 **DATE COLLECTED:** 7 / 31 / 1914
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 18 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
437.0			LIMESTONE	6.0	88.0	
406.2			LIMESTONE	7.8	118.8	
340.8			COAL	0.8	184.2	
115.0	SHELBURN	PIASA	LIMESTONE	1.3	410.0	
104.0	SHELBURN	GALUM	LIMESTONE	2.0	421.0	
100.0	SHELBURN	BANKSTON FORK	LIMESTONE	10.0	425.0	
86.5	CARBONDALE	BRERETON	LIMESTONE	0.3	438.5	
85.2	CARBONDALE	ANNA	SHALE	2.2	439.8	
83.0	CARBONDALE	HERRIN	COAL	6.0	442.0	

MAPID: 00500522000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.479927 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.916906 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 18 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.0	MODESTO	PIASA	LIMESTONE	1.3	410.0	
113.7	MODESTO		SHALE	9.8	411.3	
104.0	CARBONDALE	GALUM	LIMESTONE	2.0	421.0	
102.0	CARBONDALE		CALCAREOUS SHALE	2.0	423.0	
100.0	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	425.0	LOWER BENCH
90.0	CARBONDALE	LAWSON	CALCAREOUS SHALE	1.0	435.0	
89.0	CARBONDALE	CONANT	DARK GRAY SHALE	2.0	436.0	
87.0	CARBONDALE	BRERETON	LIMESTONE	0.3	438.0	
86.7	CARBONDALE	ANNA	BLACK SHALE	3.2	438.3	
83.0	CARBONDALE	HERRIN	COAL	6.0	442.0	

MAPID: 00570019000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 870' N line, 1660' W line

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.480228 **GEOLOGIST:** LOUCHIOS

CONFIDENTIAL: N **LATITUDE:** 38.928098 **DATE COLLECTED:** 0 / 0 / 1936

SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 920.0 **LOG TYPE:** Drillers Log

SOURCE: UTAH INTERNATIONAL 11C107 **WELL TYPE:** Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
542.0			NO RECORD	117.0	0.0	
425.0			LIMESTONE	7.0	117.0	
418.0			DARK SHALE	131.0	124.0	
287.0			SANDSTONE	105.0	255.0	
182.0			DARK SHALE	35.0	360.0	
147.0			COAL	2.0	395.0	
145.0			SHALE	28.0	397.0	
117.0			LIMESTONE	7.0	425.0	
110.0			SHALE	8.0	432.0	
102.0	CARBONDALE	HERRIN	COAL	7.0	440.0	
95.0	CARBONDALE		SANDY SHALE	41.0	447.0	
54.0	CARBONDALE		SHALE	8.0	488.0	
46.0	CARBONDALE	SPRINGFIELD	COAL	4.0	496.0	
42.0	CARBONDALE		SHALE	38.0	500.0	
4.0	CARBONDALE	COLCHESTER	COAL	4.0	538.0	
0.0	CARBONDALE		SHALE	33.0	542.0	
-33.0			UNCLASSIFIED	345.0	575.0	

MAPID: 00500099000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** NW NW NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.455738 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.929767 **DATE COLLECTED:** 0 / 0 / 1933

SURFACE ELEVATION (FT.): 549.5 **LOGGED (FT.):** 1002.0 **LOG TYPE:**

SOURCE: NEATHERLY **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
122.5	CARBONDALE	HERRIN	COAL	7.0	427.0	

MAPID: 00500099000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.455738 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.929767 **DATE COLLECTED:** 0 / 0 / 1933
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Drillers Log
SOURCE: NEATHERLY, ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	CARBONDALE	ANNA	BLACK SHALE	3.0	425.0	
122.0	CARBONDALE	HERRIN	COAL	7.0	428.0	

MAPID: 00523122000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.465138 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.91691 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 445.1 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-17 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	7.1	438.0	

MAPID: 00570018000C **VERSION:** 1 **PROJECT:** NCRDS

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 320' N line, 2220' E line
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.455441 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 38.9298 **DATE COLLECTED:** 0 / 0 / 1933
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 890.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 12C99 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
550.0			UNCLASSIFIED	416.0	0.0	
134.0	SHELBURN	BRERETON	LIMESTONE	8.0	416.0	
126.0	CARBONDALE	ANNA	BLACK SHALE	3.0	424.0	
123.0	CARBONDALE	HERRIN	COAL	7.0	427.0	
116.0	CARBONDALE		UNCLASSIFIED	113.0	434.0	
3.0	CARBONDALE		BLACK SHALE	38.0	547.0	
-35.0	CARBONDALE	COLCHESTER	COAL	5.0	585.0	UNCERTAIN CORRELATION
-40.0	CARBONDALE		BLACK SHALE	5.0	590.0	
-45.0	CARBONDALE		COAL	5.0	595.0	
-50.0			BLACK SHALE	6.0	600.0	
-56.0			LIMESTONE	2.0	606.0	
-58.0			UNCLASSIFIED	282.0	608.0	

MAPID: 00522342000C **VERSION:** 1 **PROJECT:** CONF

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** 1281' N line, 910' W line of NW NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.44439 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.927186 **DATE COLLECTED:** 3 / 29 / 1984
SURFACE ELEVATION (FT.): 553.0 **LOGGED (FT.):** 558.0 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 194-6C **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
108.9	CARBONDALE	HERRIN	COAL	6.0	444.1	REMOVED BY CO.
50.1			COAL	1.3	502.9	

MAPID: 00523123000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 33 **QUARTERS/FOOTAGES:** NE SE SE
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.430003 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.918915 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 430.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL IG-764 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	1.5	429.0	

MAPID: 00523124000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 6N 3W **SECTION:** 34 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.425315 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.924307 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 446.2 **LOG TYPE:** Company map
SOURCE: CARTER OIL IG-802 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM FROGTOWN B,D,F&G MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.2	441.0	

MAPID: 00500028000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 2 **QUARTERS/FOOTAGES:** SW/c SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.517914 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.99208 **DATE COLLECTED:** 0 / 0 / 1903

SURFACE ELEVATION (FT.): 511.3 **LOGGED (FT.):** 372.0 **LOG TYPE:**

SOURCE: W BREASTFC0003 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
149.3	CARBONDALE	HERRIN	COAL	8.0	362.0	

MAPID: 00500028000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 2 **QUARTERS/FOOTAGES:** SW/c SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.517914 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.99208 **DATE COLLECTED:** 8 / 0 / 1903

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 369.8 **LOG TYPE:** Drillers Log

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

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
193.5	MODESTO	PIASA	LIMESTONE	5.0	317.5	
188.5	MODESTO		UNCLASSIFIED	4.0	322.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
184.5	CARBONDALE		UNCLASSIFIED	13.0	326.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
171.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	12.0	339.5	
159.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	351.5	
156.5	CARBONDALE	CONANT	UNCLASSIFIED	2.0	354.5	
154.5	CARBONDALE		UNCLASSIFIED	2.0	356.5	SHALE ABOVE BRERETON LIMESTONE
152.5	CARBONDALE	BRERETON	LIMESTONE	1.5	358.5	
151.0	CARBONDALE	ANNA	BLACK SHALE	2.0	360.0	
149.0	CARBONDALE	HERRIN	COAL	7.8	362.0	

MAPID: 00500430000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 1480' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.517284 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.990672 **DATE COLLECTED:** 4 / 0 / 1956

SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 456.0 **LOG TYPE:** Electric Log

SOURCE: SWARTZ J G **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.0	MODESTO	PIASA	LIMESTONE	3.0	404.0	
178.0	MODESTO		UNCLASSIFIED	6.5	407.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
171.5	CARBONDALE		UNCLASSIFIED	19.5	413.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
152.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	433.0	
145.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	440.0	
141.5	CARBONDALE		UNCLASSIFIED	3.5	443.5	SHALE ABOVE BRERETON LIMESTONE
138.0	CARBONDALE	BRERETON	LIMESTONE	4.0	447.0	
134.0	CARBONDALE	ANNA	BLACK SHALE	1.0	451.0	
133.0	CARBONDALE	HERRIN	COAL	4.0	452.0	

MAPID: 00500430000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 1480' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.517284 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.990672 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 438.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	2.5	392.0	
190.5	CARBONDALE		SHALE	36.0	394.5	
154.5	CARBONDALE	LAWSON	SHALE	4.0	430.5	
150.5	CARBONDALE	BRERETON	LIMESTONE	3.5	434.5	
150.0	CARBONDALE	HERRIN	COAL	3.5	435.0	

MAPID: 00500640000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 990' S line, 340' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.539981 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.993168 **DATE COLLECTED:** 3 / 0 / 1955

SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 425.5 **LOG TYPE:** Electric Log

SOURCE: LUTTRELL HOMER T R **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
203.5	MODESTO	PIASA	LIMESTONE	4.0	376.5	
199.5	MODESTO		UNCLASSIFIED	3.5	380.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
196.0	CARBONDALE	DANVILLE	COAL	2.0	384.0	
194.0	CARBONDALE		UNCLASSIFIED	18.5	386.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
175.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	404.5	
168.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	412.0	
166.0	CARBONDALE	CONANT	UNCLASSIFIED	1.0	414.0	
165.0	CARBONDALE		UNCLASSIFIED	1.5	415.0	SHALE ABOVE BRERETON LIMESTONE
163.5	CARBONDALE	BRERETON	LIMESTONE	4.0	416.5	
159.5	CARBONDALE	ANNA	BLACK SHALE	1.5	420.5	
158.0	CARBONDALE	HERRIN	COAL	3.5	422.0	

MAPID: 00500640000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 3 **QUARTERS/FOOTAGES:** 990' S line, 340' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.539981 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.993168 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 425.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
203.0	MODESTO	PIASA	LIMESTONE	3.0	377.0	
200.0	CARBONDALE		SHALE	32.0	380.0	
168.0	CARBONDALE	LAWSON	SHALE	4.0	412.0	
164.0	CARBONDALE	BRERETON	LIMESTONE	4.0	416.0	
160.0	CARBONDALE	ANNA	SHALE	2.0	420.0	
158.0	CARBONDALE	HERRIN	COAL	3.0	422.0	

MAPID: 00500733000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.551818 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.99358 **DATE COLLECTED:** 10 / 0 / 1957

SURFACE ELEVATION (FT.): 581.0 **LOGGED (FT.):** 406.5 **LOG TYPE:** Electric Log

SOURCE: CRAIN G B **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
219.5	MODESTO	PIASA	LIMESTONE	4.0	361.5	
215.5	MODESTO		UNCLASSIFIED	5.5	365.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
210.0	CARBONDALE		UNCLASSIFIED	12.5	371.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
197.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	383.5	
188.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	392.5	
187.0	CARBONDALE		UNCLASSIFIED	1.5	394.0	SHALE ABOVE BRERETON LIMESTONE
185.5	CARBONDALE	BRERETON	LIMESTONE	3.0	395.5	
182.5	CARBONDALE	ANNA	BLACK SHALE	3.5	398.5	
179.0	CARBONDALE	HERRIN	COAL	4.5	402.0	

MAPID: 00500416000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.586034 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.991089 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 358.0 **LOG TYPE:** Electric Log

SOURCE: MURVIN & STEBER DRLG. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
266.5	MODESTO	PIASA	LIMESTONE	4.0	312.5	
262.5	MODESTO		UNCLASSIFIED	4.0	316.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
258.5	CARBONDALE		UNCLASSIFIED	15.5	320.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
243.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	336.0	
235.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	343.5	
234.0	CARBONDALE		UNCLASSIFIED	1.5	345.0	SHALE ABOVE BRERETON LIMESTONE
232.5	CARBONDALE	BRERETON	LIMESTONE	4.0	346.5	
228.5	CARBONDALE	ANNA	BLACK SHALE	2.5	350.5	
226.0	CARBONDALE	HERRIN	COAL	5.0	353.0	

MAPID: 00500531000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.583677 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.983689 **DATE COLLECTED:** 12 / 0 / 1956

SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 311.0 **LOG TYPE:** Electric Log

SOURCE: MOHAWK DRILLING CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
259.0	MODESTO	PIASA	LIMESTONE	4.0	263.0	
255.0	MODESTO		UNCLASSIFIED	6.0	267.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
249.0	CARBONDALE		UNCLASSIFIED	19.0	273.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
230.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	292.0	
223.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	299.0	
221.5	CARBONDALE		UNCLASSIFIED	1.5	300.5	SHALE ABOVE BRERETON LIMESTONE
220.0	CARBONDALE	BRERETON	LIMESTONE	3.0	302.0	
217.0	CARBONDALE	ANNA	BLACK SHALE	2.0	305.0	
215.0	CARBONDALE	HERRIN	COAL	4.0	307.0	

MAPID: 00500641000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 700' S line, 660' E line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.592724 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.983161 **DATE COLLECTED:** 12 / 0 / 1943

SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 373.5 **LOG TYPE:** Electric Log

SOURCE: SUN PRODUCTION COMPANY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
259.0	MODESTO	PIASA	LIMESTONE	3.0	330.0	
256.0	MODESTO		UNCLASSIFIED	5.5	333.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
250.5	CARBONDALE		UNCLASSIFIED	13.5	338.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
237.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	352.0	
230.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	358.5	
228.5	CARBONDALE		UNCLASSIFIED	2.0	360.5	SHALE ABOVE BRERETON LIMESTONE
226.5	CARBONDALE	BRERETON	LIMESTONE	5.0	362.5	
221.5	CARBONDALE	ANNA	BLACK SHALE	2.5	367.5	
219.0	CARBONDALE	HERRIN	COAL	3.5	370.0	

MAPID: 00500802000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' N line, 2310' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.587417 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.990226 **DATE COLLECTED:** 5 / 0 / 1959

SURFACE ELEVATION (FT.): 587.0 **LOGGED (FT.):** 363.0 **LOG TYPE:** Electric Log

SOURCE: DULL, JOE A. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
267.6	MODESTO	PIASA	LIMESTONE	4.0	319.4	
263.6	MODESTO		UNCLASSIFIED	5.0	323.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
258.6	CARBONDALE		UNCLASSIFIED	12.5	328.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
246.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	340.9	
238.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	348.4	
236.3	CARBONDALE		UNCLASSIFIED	2.3	350.7	SHALE ABOVE BRERETON LIMESTONE
234.0	CARBONDALE	BRERETON	LIMESTONE	3.5	353.0	
230.5	CARBONDALE	ANNA	BLACK SHALE	2.5	356.5	
228.0	CARBONDALE	HERRIN	COAL	4.0	359.0	

MAPID: 00500802000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' N line, 2310' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.587417 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.990226 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 587.0 **LOGGED (FT.):** 369.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
262.0	MODESTO	PIASA	LIMESTONE	3.0	325.0	
259.0	CARBONDALE		SHALE	26.0	328.0	
233.0	CARBONDALE	LAWSON	SHALE	3.0	354.0	
230.0	CARBONDALE	BRERETON	LIMESTONE	3.0	357.0	
227.0	CARBONDALE	ANNA	SHALE	2.0	360.0	
224.0	CARBONDALE	HERRIN	COAL	6.0	363.0	

MAPID: 00501171000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.568566 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.983188 **DATE COLLECTED:** 2 / 0 / 1942
SURFACE ELEVATION (FT.): 582.0 **LOGGED (FT.):** 390.0 **LOG TYPE:** Electric Log
SOURCE: SOUTHWSTN OIL & GAS **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
197.0	CARBONDALE	HERRIN	COAL	5.0	385.0	

MAPID: 00501534000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 8 **QUARTERS/FOOTAGES:** 2583' S line, 2587' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.570137 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.983969 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 386.0 **LOG TYPE:** Survey Core Study
SOURCE: CONSOLIDATION C.C. 247-BB **WELL TYPE:** Coal Test
COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
290.6	MODESTO	PIASA	LIMESTONE	4.5	289.4	
286.1	MODESTO		SHALE	12.0	293.9	
274.1	CARBONDALE	DANVILLE	COAL	0.7	305.9	
273.4	CARBONDALE		BLACK SHALE	0.8	306.6	
272.7	CARBONDALE		CLAYSTONE & SHALE	55.0	307.3	
217.7	CARBONDALE		GRAY SHALE	3.2	362.3	
214.5	CARBONDALE	BANKSTON FORK	LIMESTONE/UNDERCLAY	4.9	365.5	UPPER BENCH
209.6	CARBONDALE	BANKSTON FORK	GRAY SHALE	1.2	370.4	SHALE PARTING
208.4	CARBONDALE	BANKSTON FORK	LIMESTONE/UNDERCLAY	2.6	371.6	LOWER BENCH
205.8	CARBONDALE	LAWSON	MOTTLED SHALE	1.7	374.2	
204.1	CARBONDALE	CONANT	LIMESTONE	0.1	375.9	
204.0	CARBONDALE	JAMESTOWN	CARBONACEOUS SHALE	0.3	376.0	
203.6	CARBONDALE	ANNA	BLACK SHALE	2.7	376.4	
201.0	CARBONDALE	HERRIN	COAL	7.0	379.0	

MAPID: 00500441000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.549529 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.982599 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Electric Log

SOURCE: NEARY & CAHILL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
213.1	CARBONDALE		UNCLASSIFIED	12.0	379.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
201.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	391.9	
194.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.8	398.4	
190.8	CARBONDALE		UNCLASSIFIED	3.8	402.2	SHALE ABOVE BRERETON LIMESTONE
187.0	CARBONDALE	BRERETON	LIMESTONE	2.0	406.0	
185.0	CARBONDALE	ANNA	BLACK SHALE	1.0	408.0	
184.0	CARBONDALE	HERRIN	COAL	4.0	409.0	

MAPID: 00500498000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 2310' S line, 1980' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553172 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.982716 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 402.0 **LOG TYPE:** Electric Log

SOURCE: NEARY & CAHILL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
233.1	MODESTO	PIASA	LIMESTONE	3.5	356.9	
229.6	MODESTO		UNCLASSIFIED	3.5	360.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
226.1	CARBONDALE	DANVILLE	COAL	1.0	363.9	
225.1	CARBONDALE		UNCLASSIFIED	17.0	364.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
208.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	381.9	
199.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	390.4	
198.3	CARBONDALE		UNCLASSIFIED	1.3	391.7	SHALE ABOVE BRERETON LIMESTONE
197.0	CARBONDALE	BRERETON	LIMESTONE	4.0	393.0	
193.0	CARBONDALE	ANNA	BLACK SHALE	2.0	397.0	
191.0	CARBONDALE	HERRIN	COAL	3.0	399.0	

MAPID: 00500498000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 2310' S line, 1980' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553172 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.982716 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
228.0	MODESTO	PIASA	LIMESTONE	3.0	362.0	
225.0	CARBONDALE		SHALE	32.5	365.0	
192.5	CARBONDALE	LAWSON	SHALE	3.0	397.5	
189.5	CARBONDALE	BRERETON	LIMESTONE	3.5	400.5	
186.0	CARBONDALE	ANNA	SHALE	2.0	404.0	
187.0	CARBONDALE	HERRIN	COAL	2.0	403.0	

MAPID: 00500957000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.551852 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.9863 **DATE COLLECTED:** 12 / 0 / 1962

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR OIL CO., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
214.5	MODESTO	PIASA	LIMESTONE	2.5	361.5	
212.0	MODESTO		UNCLASSIFIED	6.0	364.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
206.0	CARBONDALE		UNCLASSIFIED	16.0	370.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
190.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	386.0	
181.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	395.0	
178.5	CARBONDALE		UNCLASSIFIED	2.5	397.5	SHALE ABOVE BRERETON LIMESTONE
176.0	CARBONDALE	BRERETON	LIMESTONE	3.0	400.0	
173.0	CARBONDALE	ANNA	BLACK SHALE	2.0	403.0	
171.0	CARBONDALE	HERRIN	COAL	3.0	405.0	

MAPID: 00500029000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SE SW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.528453 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.976408 **DATE COLLECTED:** 0 / 0 / 1909

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 449.3 **LOG TYPE:** Drillers Log

SOURCE: SHOAL CREEK COAL CO **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
176.9	MODESTO	PIASA	LIMESTONE	6.0	398.1	
170.9	MODESTO		UNCLASSIFIED	3.3	404.1	INTERVAL ABOVE DANVILLE, BELOW PIASA
167.6	CARBONDALE		UNCLASSIFIED	15.3	407.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
152.3	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	12.0	422.7	
140.3	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	434.7	
138.0	CARBONDALE		UNCLASSIFIED	2.2	437.0	SHALE ABOVE BRERETON LIMESTONE
135.8	CARBONDALE	BRERETON	LIMESTONE	1.5	439.2	
134.3	CARBONDALE	ANNA	BLACK SHALE	1.3	440.7	
133.0	CARBONDALE	HERRIN	COAL	7.3	442.0	

MAPID: 00500029000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SE SW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.528453 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.976408 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 448.3 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.0	MODESTO	PIASA	SILTY SHALE	1.5	403.0	
170.5	MODESTO		DARK GRAY SHALE	9.0	404.5	
161.5	CARBONDALE		DARK GRAY SHALE	8.0	413.5	
153.5	CARBONDALE	BANKSTON FORK	LIMESTONE	16.4	421.5	LOWER BENCH
137.1	CARBONDALE	BRERETON	LIMESTONE	1.5	437.9	
135.6	CARBONDALE	ANNA	BLACK SHALE	1.3	439.4	
134.0	CARBONDALE	HERRIN	COAL	7.3	441.0	

MAPID: 00500029000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.528453 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.976408 **DATE COLLECTED:** 0 / 0 / 1909
SURFACE ELEVATION (FT.): 574.6 **LOGGED (FT.):** 454.0 **LOG TYPE:**
SOURCE: SHOALCREEK 3 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
133.6	CARBONDALE	HERRIN	COAL	7.3	441.0	

MAPID: 00590002000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 10 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.540078 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 38.976913 **DATE COLLECTED:** 11 / 16 / 1914
SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 441.0 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. E **WELL TYPE:** Coal Test
COMMENT: MAP 15-K-Z

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
589.0			UNKNOWN	432.7	0.0	
156.3	CARBONDALE	HERRIN	COAL	8.3	432.7	

MAPID: 00500030000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.51693 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.975985 **DATE COLLECTED:** 0 / 0 / 1909
SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 566.8 **LOG TYPE:** Drillers Log
SOURCE: SHOAL CREEK COAL CO **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
36.8	CARBONDALE		UNCLASSIFIED	2.0	535.2	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
34.8	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.8	537.2	
24.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.7	548.0	
22.3	CARBONDALE	CONANT	UNCLASSIFIED	1.2	549.7	
21.1	CARBONDALE		UNCLASSIFIED	3.5	550.9	SHALE ABOVE BRERETON LIMESTONE
17.6	CARBONDALE	BRERETON	LIMESTONE	5.2	554.4	
12.4	CARBONDALE	ANNA	BLACK SHALE	0.4	559.6	
12.0	CARBONDALE	HERRIN	COAL	6.8	560.0	

MAPID: 00500030000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** SW SE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.51693 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.975985 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 449.8 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
176.0	MODESTO	PIASA	DARK GRAY SHALE	1.0	396.0	
175.0	MODESTO		DARK GRAY SHALE	21.0	397.0	
154.0	CARBONDALE	DANVILLE	CARBONACEOUS SHALE	0.7	418.0	
153.3	CARBONDALE		DARK GRAY SHALE	1.3	418.7	
152.0	CARBONDALE	GALUM	LIMESTONE	3.0	420.0	
149.0	CARBONDALE		DARK GRAY SHALE	1.5	423.0	
147.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.3	424.5	UPPER BENCH
141.2	CARBONDALE	BANKSTON FORK	CALCAREOUS SHALE	1.7	430.8	SHALE PARTING
139.6	CARBONDALE	BANKSTON FORK	LIMESTONE	1.2	432.4	LOWER BENCH
138.4	CARBONDALE	LAWSON	DARK GRAY SHALE	3.5	433.6	
134.9	CARBONDALE	CONANT	LIMESTONE	1.0	437.1	
133.9	CARBONDALE	BRERETON	LIMESTONE	5.1	438.1	
128.8	CARBONDALE	ANNA	BLACK SHALE	0.4	443.2	
129.0	CARBONDALE	HERRIN	COAL	6.8	443.0	

MAPID: 00500030000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** SW SE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.51693 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.975985 **DATE COLLECTED:** 0 / 0 / 1909

SURFACE ELEVATION (FT.): 571.8 **LOGGED (FT.):** 450.0 **LOG TYPE:**

SOURCE: SHOALCREEK 2 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
128.8	CARBONDALE	HERRIN	COAL	6.8	443.0	

MAPID: 00500108000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** E2 SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.519204 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.97697 **DATE COLLECTED:** 0 / 0 / 1909
SURFACE ELEVATION (FT.): 573.7 **LOGGED (FT.):** 466.0 **LOG TYPE:**
SOURCE: SULLIVN MA 1 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
129.7	CARBONDALE	HERRIN	COAL	5.4	444.0	
113.7	CARBONDALE	SPRINGFIELD	COAL	5.6	460.0	

MAPID: 00500108000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** E2 SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.519204 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.97697 **DATE COLLECTED:** 0 / 0 / 1909
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 449.4 **LOG TYPE:** Drillers Log
SOURCE: SULLIVAN MACHINE CO **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
174.6	MODESTO	PIASA	LIMESTONE	5.7	399.4	
168.9	MODESTO		UNCLASSIFIED	5.8	405.1	INTERVAL ABOVE DANVILLE, BELOW PIASA
163.1	CARBONDALE		UNCLASSIFIED	12.7	410.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
150.4	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.7	423.6	
139.7	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	434.3	
138.7	CARBONDALE	CONANT	UNCLASSIFIED	2.0	435.3	
136.7	CARBONDALE		UNCLASSIFIED	2.5	437.3	SHALE ABOVE BRERETON LIMESTONE
134.2	CARBONDALE	BRERETON	LIMESTONE	4.0	439.8	
130.2	CARBONDALE	ANNA	BLACK SHALE	0.2	443.8	
130.0	CARBONDALE	HERRIN	COAL	5.4	444.0	

MAPID: 00590001000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.519215 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 38.976054 **DATE COLLECTED:** 11 / 16 / 1914
SURFACE ELEVATION (FT.): 586.0 **LOGGED (FT.):** 444.0 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. D **WELL TYPE:** Coal Test
COMMENT: MAP 15-K-Z

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
586.0			UNKNOWN	438.6	0.0	
147.4	CARBONDALE	HERRIN	COAL	5.4	438.6	

MAPID: 00500615000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 12 **QUARTERS/FOOTAGES:** 447' S line, 335' W line of SE NE

QUADRANGLE: GREENVILLE **LONGITUDE:** -89.489251 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.982766 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 445.0 **LOG TYPE:** Electric Log

SOURCE: EWART LOWELL G **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
201.0	MODESTO	PIASA	LIMESTONE	5.0	396.0	
196.0	MODESTO		UNCLASSIFIED	5.0	401.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
191.0	CARBONDALE	DANVILLE	COAL	2.0	406.0	
189.0	CARBONDALE		UNCLASSIFIED	21.5	408.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
167.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.5	429.5	
163.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	434.0	
161.5	CARBONDALE		UNCLASSIFIED	1.5	435.5	SHALE ABOVE BRERETON LIMESTONE
160.0	CARBONDALE	BRERETON	LIMESTONE	2.0	437.0	
158.0	CARBONDALE	ANNA	BLACK SHALE	2.0	439.0	
156.0	CARBONDALE	HERRIN	COAL	4.0	441.0	

MAPID: 00500768000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.505668 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.961037 **DATE COLLECTED:** 8 / 0 / 1958

SURFACE ELEVATION (FT.): 586.0 **LOGGED (FT.):** 448.0 **LOG TYPE:** Electric Log

SOURCE: THORPE ROBERT E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	MODESTO	PIASA	LIMESTONE	4.0	402.0	
180.0	MODESTO		UNCLASSIFIED	6.0	406.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
174.0	CARBONDALE		UNCLASSIFIED	18.0	412.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
156.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	430.0	
149.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	436.5	
146.5	CARBONDALE	CONANT	UNCLASSIFIED	1.5	439.5	
145.0	CARBONDALE		UNCLASSIFIED	2.0	441.0	SHALE ABOVE BRERETON LIMESTONE
143.0	CARBONDALE	BRERETON	LIMESTONE	1.0	443.0	
142.0	CARBONDALE	ANNA	BLACK SHALE	1.0	444.0	
141.0	CARBONDALE	HERRIN	COAL	3.0	445.0	

MAPID: 00590008000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 14 **QUARTERS/FOOTAGES:** NW NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.512392 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.974015 **DATE COLLECTED:** 11 / 16 / 1914

SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 443.0 **LOG TYPE:** Company map

SOURCE: PEABODY COAL CO. #C **WELL TYPE:** Coal Test

COMMENT: MAP 15-K-Z

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
585.0			UNKNOWN	436.2	0.0	
148.8	CARBONDALE	HERRIN	COAL	6.8	436.2	

MAPID: 00500624000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 2310' S line, 2240' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.530716 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.967242 **DATE COLLECTED:** 5 / 0 / 1951

SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 418.5 **LOG TYPE:** Electric Log

SOURCE: BARRON, KIDD **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
199.0	MODESTO	PIASA	LIMESTONE	6.0	365.0	
193.0	MODESTO		UNCLASSIFIED	6.0	371.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
187.0	CARBONDALE		UNCLASSIFIED	19.0	377.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
168.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	396.0	
160.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	404.0	
157.0	CARBONDALE		UNCLASSIFIED	3.0	407.0	SHALE ABOVE BRERETON LIMESTONE
154.0	CARBONDALE	BRERETON	LIMESTONE	3.0	410.0	
151.0	CARBONDALE	ANNA	BLACK SHALE	2.0	413.0	
149.0	CARBONDALE	HERRIN	COAL	3.5	415.0	

MAPID: 00500624000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 15 **QUARTERS/FOOTAGES:** 2310' S line, 2240' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.530716 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.967242 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 418.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
198.0	MODESTO	PIASA	LIMESTONE	4.0	366.0	
194.0	CARBONDALE		SHALE	35.0	370.0	
159.0	CARBONDALE	LAWSON	SHALE	3.0	405.0	
156.0	CARBONDALE	BRERETON	LIMESTONE	3.0	408.0	
153.0	CARBONDALE	ANNA	SHALE	2.0	411.0	
149.0	CARBONDALE	HERRIN	COAL	3.0	415.0	

MAPID: 00500142000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 70' S line, 1758' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554147 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.96185 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 1856.0 **LOG TYPE:**

SOURCE: BOND OC **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	CARBONDALE	HERRIN	COAL	5.0	365.0	

MAPID: 00500322000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559097 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.970061 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 310.0 **LOG TYPE:** Electric Log

SOURCE: SIMPKINS JOE **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
245.0	MODESTO	PIASA	LIMESTONE	5.0	260.0	
240.0	MODESTO		UNCLASSIFIED	5.0	265.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
235.0	CARBONDALE		UNCLASSIFIED	18.0	270.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
217.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	288.0	
210.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	295.0	
207.0	CARBONDALE		UNCLASSIFIED	3.0	298.0	SHALE ABOVE BRERETON LIMESTONE
204.0	CARBONDALE	BRERETON	LIMESTONE	3.5	301.0	
200.5	CARBONDALE	ANNA	BLACK SHALE	1.5	304.5	
199.0	CARBONDALE	HERRIN	COAL	4.0	306.0	

MAPID: 00500330000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 1650' N line, 990' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.556739 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.971865 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 324.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
251.0	MODESTO	PIASA	LIMESTONE	3.0	260.0	
248.0	CARBONDALE		SHALE	44.0	263.0	
204.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	307.0	LOWER BENCH
202.0	CARBONDALE	LAWSON	SHALE	3.0	309.0	
199.0	CARBONDALE	BRERETON	LIMESTONE	2.5	312.0	
196.5	CARBONDALE	ANNA	SHALE	2.0	314.5	
190.0	CARBONDALE	HERRIN	COAL	3.0	321.0	

MAPID: 00500333000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 447' W line of NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.549149 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.975333 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 352.0 **LOG TYPE:** Electric Log

SOURCE: NEARY & CAHILL **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.1	CARBONDALE		UNCLASSIFIED	6.0	321.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
178.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	327.9	
168.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	337.9	
165.3	CARBONDALE		UNCLASSIFIED	2.8	340.7	SHALE ABOVE BRERETON LIMESTONE
162.5	CARBONDALE	BRERETON	LIMESTONE	2.5	343.5	
160.0	CARBONDALE	ANNA	BLACK SHALE	2.0	346.0	
158.0	CARBONDALE	HERRIN	COAL	4.0	348.0	

MAPID: 00500377000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559186 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.962734 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 349.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	CARBONDALE	DANVILLE	COAL	1.0	310.0	
186.0	CARBONDALE		UNCLASSIFIED	18.0	311.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
168.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	329.0	
158.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	339.0	
157.0	CARBONDALE		UNCLASSIFIED	1.0	340.0	SHALE ABOVE BRERETON LIMESTONE
156.0	CARBONDALE	BRERETON	LIMESTONE	2.5	341.0	
153.5	CARBONDALE	ANNA	BLACK SHALE	1.5	343.5	
152.0	CARBONDALE	HERRIN	COAL	4.0	345.0	

MAPID: 00500379000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.551929 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.975398 **DATE COLLECTED:** 11 / 0 / 1955

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 341.0 **LOG TYPE:** Electric Log

SOURCE: NEARY & CAHILL **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
212.0	MODESTO	PIASA	LIMESTONE	3.5	289.0	
208.5	MODESTO		UNCLASSIFIED	6.5	292.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
202.0	CARBONDALE		UNCLASSIFIED	19.0	299.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
183.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	318.0	
176.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	325.0	
173.5	CARBONDALE	CONANT	UNCLASSIFIED	1.5	327.5	
172.0	CARBONDALE		UNCLASSIFIED	4.5	329.0	SHALE ABOVE BRERETON LIMESTONE
167.5	CARBONDALE	BRERETON	LIMESTONE	2.0	333.5	
165.5	CARBONDALE	ANNA	BLACK SHALE	1.5	335.5	
164.0	CARBONDALE	HERRIN	COAL	4.0	337.0	

MAPID: 00500393000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 400' N line, 330' E line of NW NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554377 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.967913 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 379.0 **LOG TYPE:** Electric Log

SOURCE: WEDER HERBERT **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
206.5	MODESTO	PIASA	LIMESTONE	5.0	329.5	
201.5	MODESTO		UNCLASSIFIED	6.0	334.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
195.5	CARBONDALE		UNCLASSIFIED	15.0	340.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
180.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	355.5	
172.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	363.5	
170.5	CARBONDALE		UNCLASSIFIED	2.0	365.5	SHALE ABOVE BRERETON LIMESTONE
168.5	CARBONDALE	BRERETON	LIMESTONE	2.0	367.5	
166.5	CARBONDALE	ANNA	BLACK SHALE	4.5	369.5	
162.0	CARBONDALE	HERRIN	COAL	5.0	374.0	

MAPID: 00500423000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 990' S line, 330' W line of NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.549624 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.971614 **DATE COLLECTED:** 3 / 0 / 1956

SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 347.0 **LOG TYPE:** Electric Log

SOURCE: BASSETT, CLYDE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	MODESTO	PIASA	LIMESTONE	4.0	299.0	
201.0	MODESTO		UNCLASSIFIED	6.0	303.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
195.0	CARBONDALE		UNCLASSIFIED	16.0	309.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
179.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	325.0	
173.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	331.0	
170.0	CARBONDALE	CONANT	UNCLASSIFIED	0.5	334.0	
169.5	CARBONDALE		UNCLASSIFIED	3.0	334.5	SHALE ABOVE BRERETON LIMESTONE
166.5	CARBONDALE	BRERETON	LIMESTONE	4.5	337.5	
162.0	CARBONDALE	ANNA	BLACK SHALE	1.0	342.0	
161.0	CARBONDALE	HERRIN	COAL	4.0	343.0	

MAPID: 00501175000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.542542 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.969593 **DATE COLLECTED:** 5 / 0 / 1946

SURFACE ELEVATION (FT.): 581.0 **LOGGED (FT.):** 426.5 **LOG TYPE:** Electric Log

SOURCE: DUNCAN & DORAN **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.1	MODESTO	PIASA	LIMESTONE	6.0	375.9	
199.1	MODESTO		UNCLASSIFIED	4.5	381.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
194.6	CARBONDALE	DANVILLE	COAL	2.0	386.4	
192.6	CARBONDALE		UNCLASSIFIED	18.0	388.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	406.4	
164.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	416.4	
163.3	CARBONDALE		UNCLASSIFIED	1.3	417.7	SHALE ABOVE BRERETON LIMESTONE
162.0	CARBONDALE	ANNA	BLACK SHALE	1.0	419.0	
161.0	CARBONDALE	HERRIN	COAL	6.5	420.0	

MAPID: 00500329000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561431 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.970123 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 310.0 **LOG TYPE:** Electric Log

SOURCE: SIMPKINS JOE **WELL TYPE:** Water Injection

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
240.6	MODESTO	PIASA	LIMESTONE	4.0	270.4	
236.6	MODESTO		UNCLASSIFIED	4.0	274.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
232.6	CARBONDALE		UNCLASSIFIED	13.0	278.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
219.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	291.4	
213.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	297.9	
211.3	CARBONDALE		UNCLASSIFIED	1.8	299.7	SHALE ABOVE BRERETON LIMESTONE
209.5	CARBONDALE	BRERETON	LIMESTONE	2.5	301.5	
207.0	CARBONDALE	ANNA	BLACK SHALE	2.0	304.0	
205.0	CARBONDALE	HERRIN	COAL	4.0	306.0	

MAPID: 00500348000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 1650' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.566184 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.962896 **DATE COLLECTED:** 11 / 0 / 1955

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 414.5 **LOG TYPE:** Electric Log

SOURCE: REISS B & COSLET D **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.6	MODESTO	PIASA	LIMESTONE	3.0	381.4	
190.6	MODESTO		UNCLASSIFIED	2.5	384.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
188.1	CARBONDALE		UNCLASSIFIED	7.5	386.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
180.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	394.4	
174.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	400.9	
171.3	CARBONDALE		UNCLASSIFIED	2.8	403.7	SHALE ABOVE BRERETON LIMESTONE
168.5	CARBONDALE	BRERETON	LIMESTONE	3.0	406.5	
165.5	CARBONDALE	ANNA	BLACK SHALE	1.5	409.5	
164.0	CARBONDALE	HERRIN	COAL	3.5	411.0	

MAPID: 00500348000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 1650' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.566184 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.962896 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 413.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
191.0	MODESTO	PIASA	LIMESTONE	2.0	384.0	
189.0	CARBONDALE		SHALE	19.0	386.0	
170.0	CARBONDALE	LAWSON	SHALE	3.0	405.0	
167.0	CARBONDALE	BRERETON	LIMESTONE	3.0	408.0	
164.0	CARBONDALE	ANNA	SHALE	2.0	411.0	
163.0	CARBONDALE	HERRIN	COAL	1.5	412.0	

MAPID: 00500403000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2310' N line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.580542 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.97081 **DATE COLLECTED:** 1 / 0 / 1956

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 322.0 **LOG TYPE:** Electric Log

SOURCE: CARTER JAMES E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
242.1	MODESTO	PIASA	LIMESTONE	4.0	273.9	
238.1	MODESTO		UNCLASSIFIED	5.0	277.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
233.1	CARBONDALE		UNCLASSIFIED	18.0	282.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
215.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	300.9	
208.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	307.4	
206.3	CARBONDALE		UNCLASSIFIED	2.3	309.7	SHALE ABOVE BRERETON LIMESTONE
204.0	CARBONDALE	BRERETON	LIMESTONE	4.0	312.0	
200.0	CARBONDALE	ANNA	BLACK SHALE	2.0	316.0	
198.0	CARBONDALE	HERRIN	COAL	4.0	318.0	

MAPID: 00500403000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 2310' N line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.580542 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.97081 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 322.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
241.0	MODESTO	PIASA	LIMESTONE	3.0	275.0	
238.0	CARBONDALE		SHALE	31.0	278.0	
207.0	CARBONDALE	LAWSON	SHALE	3.0	309.0	
204.0	CARBONDALE	BRERETON	LIMESTONE	4.0	312.0	
200.0	CARBONDALE	ANNA	SHALE	2.0	316.0	
198.0	CARBONDALE	HERRIN	COAL	4.0	318.0	

MAPID: 00500490000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 990' E line of NW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.59917 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.969192 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 622.0 **LOGGED (FT.):** 438.0 **LOG TYPE:** Electric Log

SOURCE: PEP DRILLING COMPANY **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
238.0	MODESTO	PIASA	LIMESTONE	6.0	384.0	
232.0	MODESTO		UNCLASSIFIED	4.0	390.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
228.0	CARBONDALE		UNCLASSIFIED	13.0	394.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
215.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	407.0	
207.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.5	415.0	
202.5	CARBONDALE		UNCLASSIFIED	4.5	419.5	SHALE ABOVE BRERETON LIMESTONE
198.0	CARBONDALE	BRERETON	LIMESTONE	5.0	424.0	
193.0	CARBONDALE	ANNA	BLACK SHALE	3.0	429.0	
190.0	CARBONDALE	HERRIN	COAL	6.0	432.0	

MAPID: 00500527000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 18 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.596805 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.967322 **DATE COLLECTED:** 12 / 0 / 1956

SURFACE ELEVATION (FT.): 612.0 **LOGGED (FT.):** 422.0 **LOG TYPE:** Electric Log

SOURCE: RICHARDS BEN H **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
232.0	MODESTO	PIASA	LIMESTONE	3.0	380.0	
229.0	MODESTO		UNCLASSIFIED	3.0	383.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
226.0	CARBONDALE	DANVILLE	COAL	2.0	386.0	
224.0	CARBONDALE		UNCLASSIFIED	8.0	388.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
216.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	396.0	
208.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	404.0	
205.0	CARBONDALE		UNCLASSIFIED	3.0	407.0	SHALE ABOVE BRERETON LIMESTONE
202.0	CARBONDALE	BRERETON	LIMESTONE	6.0	410.0	
196.0	CARBONDALE	ANNA	BLACK SHALE	2.0	416.0	
194.0	CARBONDALE	HERRIN	COAL	4.0	418.0	

MAPID: 00500032000C **VERSION:** 1 **PROJECT:** NCRDS87

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.575883 **GEOLOGIST:** WEIBEL

CONFIDENTIAL: N **LATITUDE:** 38.955853 **DATE COLLECTED:** 2 / 0 / 1921

SURFACE ELEVATION (FT.): 504.6 **LOGGED (FT.):** 368.5 **LOG TYPE:** Drillers Log

SOURCE: CONSOLIDATED COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
504.6			UNCONSOLIDATED	17.5	0.0	
487.1	BOND		SHALE	36.5	17.5	
450.6	BOND		LIMESTONE	1.5	54.0	
449.1	BOND		COAL	0.3	55.5	
448.8	BOND		SHALE	31.2	55.8	
417.6	BOND	CARTHAGE	LIMESTONE	5.0	87.0	
412.6	MODESTO		BLACK SHALE	4.0	92.0	
408.6	MODESTO		SHALE	28.8	96.0	
379.8	MODESTO		BLACK SHALE	1.5	124.8	
378.3	MODESTO		COAL	1.1	126.3	
377.3	MODESTO		BLACK SHALE	0.6	127.3	
376.7	MODESTO		SHALE	52.1	127.9	
324.6	MODESTO		SANDSTONE	75.0	180.0	
249.6	MODESTO		SHALE	6.0	255.0	
243.6	MODESTO		SANDSTONE	4.0	261.0	
239.6	MODESTO		SHALE	4.0	265.0	
235.6	MODESTO		SANDSTONE	14.0	269.0	
221.6	MODESTO		SHALE	38.0	283.0	
183.6	MODESTO	PIASA	LIMESTONE	4.0	321.0	
179.6	MODESTO		SHALE	12.1	325.0	
167.5	CARBONDALE	DANVILLE	COAL	0.8	337.1	
166.8	CARBONDALE		SHALE	7.2	337.8	
159.6	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	345.0	
150.6	CARBONDALE		SHALE	2.0	354.0	
148.6	CARBONDALE	BRERETON	LIMESTONE	4.0	356.0	
144.6	CARBONDALE	ANNA	DARK SHALE	1.7	360.0	
142.9	CARBONDALE	HERRIN	COAL	4.7	361.7	
138.3	CARBONDALE	HERRIN	SHALE	0.1	366.3	
138.2	CARBONDALE	HERRIN	BONE COAL	0.2	366.4	
138.0	CARBONDALE	HERRIN	SHALE	0.2	366.6	
137.8	CARBONDALE	HERRIN	COAL	1.0	366.8	
136.8	CARBONDALE		UNDERCLAY	0.8	367.8	

MAPID: 00500032000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.575883 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.955853 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 368.1 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
185.0	MODESTO	PIASA	LIMESTONE	4.0	321.0	
181.0	MODESTO		DARK GRAY SHALE	12.1	325.0	
168.9	CARBONDALE		DARK GRAY SHALE	2.2	337.1	
166.7	CARBONDALE		CALCAREOUS SHALE	5.0	339.3	
161.7	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	344.3	
152.7	CARBONDALE	LAWSON	CALCAREOUS SHALE	2.0	353.3	
150.7	CARBONDALE	BRERETON	LIMESTONE	4.0	355.3	
146.7	CARBONDALE	ANNA	DARK GRAY SHALE	1.7	359.3	
144.0	CARBONDALE	HERRIN	COAL	6.1	362.0	

MAPID: 00500032000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.575883 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.955853 **DATE COLLECTED:** 2 / 0 / 1921

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 368.1 **LOG TYPE:** Drillers Log

SOURCE: CONSOLIDATION COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
183.7	MODESTO	PIASA	LIMESTONE	4.0	321.3	
179.7	MODESTO		UNCLASSIFIED	4.0	325.3	INTERVAL ABOVE DANVILLE, BELOW PIASA
175.7	CARBONDALE		UNCLASSIFIED	16.0	329.3	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
159.7	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	345.3	
150.7	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	354.3	
149.7	CARBONDALE		UNCLASSIFIED	1.0	355.3	SHALE ABOVE BRERETON LIMESTONE
148.7	CARBONDALE	BRERETON	LIMESTONE	4.0	356.3	
144.7	CARBONDALE	ANNA	BLACK SHALE	1.7	360.3	
143.0	CARBONDALE	HERRIN	COAL	6.1	362.0	

MAPID: 00500032000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.575883 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.955853 **DATE COLLECTED:** 0 / 0 / 1921
SURFACE ELEVATION (FT.): 504.6 **LOGGED (FT.):** 368.0 **LOG TYPE:**
SOURCE: CONSOL CC 0002 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.6	CARBONDALE	HERRIN	COAL	6.1	362.0	

MAPID: 00500458000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.5641 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.950093 **DATE COLLECTED:** 8 / 0 / 1956
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 405.0 **LOG TYPE:** Electric Log
SOURCE: CENTRAL OIL PROD INC **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.5	MODESTO	PIASA	LIMESTONE	6.0	354.5	
189.5	MODESTO		UNCLASSIFIED	7.0	360.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
182.5	CARBONDALE		UNCLASSIFIED	16.0	367.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	383.5	
157.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	392.5	
156.0	CARBONDALE		UNCLASSIFIED	1.5	394.0	SHALE ABOVE BRERETON LIMESTONE
154.5	CARBONDALE	BRERETON	LIMESTONE	3.0	395.5	
151.5	CARBONDALE	ANNA	BLACK SHALE	1.5	398.5	
150.0	CARBONDALE	HERRIN	COAL	5.0	400.0	

MAPID: 00500113000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 680' N line, 1500' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.555089 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.95981 **DATE COLLECTED:** 0 / 0 / 1938
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 1834.0 **LOG TYPE:**
SOURCE: DE MAYO **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
166.0	CARBONDALE	HERRIN	COAL	6.0	334.0	

MAPID: 00500131000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552229 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.955209 **DATE COLLECTED:** 0 / 0 / 1935
SURFACE ELEVATION (FT.): 493.1 **LOGGED (FT.):** 1900.0 **LOG TYPE:**
SOURCE: FILE ETAL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
150.1	CARBONDALE	HERRIN	COAL	6.0	343.0	

MAPID: 00500131000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552229 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.955209 **DATE COLLECTED:** 0 / 0 / 1935
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 349.0 **LOG TYPE:** Drillers Log
SOURCE: FILE, ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
188.0	MODESTO		UNCLASSIFIED	5.0	305.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.0	CARBONDALE		UNCLASSIFIED	18.0	310.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
165.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	328.0	
158.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	335.0	
156.0	CARBONDALE		UNCLASSIFIED	2.0	337.0	SHALE ABOVE BRERETON LIMESTONE
154.0	CARBONDALE	BRERETON	LIMESTONE	2.5	339.0	
151.5	CARBONDALE	ANNA	BLACK SHALE	1.5	341.5	
150.0	CARBONDALE	HERRIN	COAL	6.0	343.0	

MAPID: 00500146000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 430' N line, 1296' W line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.5558 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.960524 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 1874.0 **LOG TYPE:**
SOURCE: BOND OC **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
159.0	CARBONDALE	HERRIN	COAL	8.0	336.0	

MAPID: 00500146000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 430' N line, 1296' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.5558 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.960524 **DATE COLLECTED:** 11 / 0 / 1939

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 345.0 **LOG TYPE:** Drillers Log

SOURCE: BOND OIL PROD. CO. **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.1	MODESTO	PIASA	LIMESTONE	4.5	301.9	
188.6	MODESTO		UNCLASSIFIED	3.5	306.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
185.1	CARBONDALE		UNCLASSIFIED	15.0	309.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
170.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	324.9	
162.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	332.4	
161.3	CARBONDALE		UNCLASSIFIED	1.3	333.7	SHALE ABOVE BRERETON LIMESTONE
160.0	CARBONDALE	BRERETON	LIMESTONE	2.0	335.0	
158.0	CARBONDALE	ANNA	BLACK SHALE	3.0	337.0	
155.0	CARBONDALE	HERRIN	COAL	5.0	340.0	

MAPID: 00500437000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554564 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.95711 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 347.5 **LOG TYPE:** Electric Log

SOURCE: CENTRAL OIL PROD INC **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
184.0	CARBONDALE		UNCLASSIFIED	13.0	315.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
171.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	328.0	
164.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	335.0	
162.5	CARBONDALE		UNCLASSIFIED	1.5	336.5	SHALE ABOVE BRERETON LIMESTONE
161.0	CARBONDALE	BRERETON	LIMESTONE	1.0	338.0	
160.0	CARBONDALE	ANNA	BLACK SHALE	2.0	339.0	
158.0	CARBONDALE	HERRIN	COAL	6.5	341.0	

MAPID: 00500648000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559347 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.951779 **DATE COLLECTED:** 3 / 0 / 1957

SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 371.0 **LOG TYPE:** Electric Log

SOURCE: CENTRAL OIL PROD INC **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
166.0	MODESTO	PIASA	LIMESTONE	3.5	324.0	
162.5	MODESTO		UNCLASSIFIED	5.5	327.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
157.0	CARBONDALE		UNCLASSIFIED	18.0	333.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
139.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	351.0	
129.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	361.0	
127.5	CARBONDALE		UNCLASSIFIED	1.5	362.5	SHALE ABOVE BRERETON LIMESTONE
126.0	CARBONDALE	ANNA	BLACK SHALE	2.0	364.0	
124.0	CARBONDALE	HERRIN	COAL	5.0	366.0	

MAPID: 00500689000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 1590' N line, 1590' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.547237 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.957039 **DATE COLLECTED:** 5 / 0 / 1957

SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 348.0 **LOG TYPE:** Electric Log

SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
210.5	MODESTO	PIASA	LIMESTONE	5.0	301.5	
205.5	MODESTO		UNCLASSIFIED	4.0	306.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
201.5	CARBONDALE		UNCLASSIFIED	16.5	310.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
185.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	327.0	
178.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	333.5	
176.5	CARBONDALE		UNCLASSIFIED	2.0	335.5	SHALE ABOVE BRERETON LIMESTONE
174.5	CARBONDALE	BRERETON	LIMESTONE	2.0	337.5	
172.5	CARBONDALE	ANNA	BLACK SHALE	2.5	339.5	
170.0	CARBONDALE	HERRIN	COAL	6.0	342.0	

MAPID: 00500689000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 1590' N line, 1590' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.547237 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.957039 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 345.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
212.0	MODESTO	PIASA	LIMESTONE	4.5	300.0	
207.5	CARBONDALE		SHALE	31.0	304.5	
176.5	CARBONDALE	BRERETON	LIMESTONE	2.0	335.5	
174.5	CARBONDALE	ANNA	SHALE	1.0	337.5	
171.0	CARBONDALE	HERRIN	COAL	4.0	341.0	

MAPID: 00500906000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 21 **QUARTERS/FOOTAGES:** 405' S line, 615' E line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.553283 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.951802 **DATE COLLECTED:** 1 / 0 / 1961

SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 440.0 **LOG TYPE:** Electric Log

SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
134.0	CARBONDALE	HERRIN	COAL	7.0	433.0	

MAPID: 00500033000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** W2 SE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526577 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.95527 **DATE COLLECTED:** 0 / 0 / 1921

SURFACE ELEVATION (FT.): 525.8 **LOGGED (FT.):** 388.0 **LOG TYPE:**

SOURCE: CONSOL CC 0001 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
145.8	CARBONDALE	HERRIN	COAL	6.3	380.0	

MAPID: 00500033000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** W2 SE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526577 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.95527 **DATE COLLECTED:** 2 / 0 / 1921

SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 386.3 **LOG TYPE:** Drillers Log

SOURCE: CONSOLIDATION COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
188.4	MODESTO	PIASA	LIMESTONE	3.5	337.6	
184.9	MODESTO		UNCLASSIFIED	5.0	341.1	INTERVAL ABOVE DANVILLE, BELOW PIASA
179.9	CARBONDALE		UNCLASSIFIED	13.0	346.1	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.9	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.0	359.1	
155.9	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	370.1	
152.9	CARBONDALE		UNCLASSIFIED	3.0	373.1	SHALE ABOVE BRERETON LIMESTONE
149.9	CARBONDALE	BRERETON	LIMESTONE	2.7	376.1	
147.2	CARBONDALE	ANNA	BLACK SHALE	1.2	378.8	
146.0	CARBONDALE	HERRIN	COAL	6.3	380.0	

MAPID: 00500638000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.540517 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.953016 **DATE COLLECTED:** 5 / 0 / 1947

SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 425.5 **LOG TYPE:** Electric Log

SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	MODESTO	PIASA	LIMESTONE	2.0	382.0	
185.0	MODESTO		UNCLASSIFIED	5.0	384.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.0	CARBONDALE		UNCLASSIFIED	14.0	389.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	403.0	
159.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	410.0	
156.0	CARBONDALE		UNCLASSIFIED	3.0	413.0	SHALE ABOVE BRERETON LIMESTONE
153.0	CARBONDALE	BRERETON	LIMESTONE	3.5	416.0	
149.5	CARBONDALE	ANNA	BLACK SHALE	1.5	419.5	
148.0	CARBONDALE	HERRIN	COAL	4.5	421.0	

MAPID: 00500724000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.531091 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.959968 **DATE COLLECTED:** 8 / 0 / 1957
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 415.0 **LOG TYPE:** Electric Log
SOURCE: LESTER JOHN L **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.6	MODESTO	PIASA	LIMESTONE	4.0	369.4	
201.6	MODESTO		UNCLASSIFIED	6.0	373.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
195.6	CARBONDALE		UNCLASSIFIED	17.0	379.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
178.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	396.4	
171.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	403.9	
169.3	CARBONDALE		UNCLASSIFIED	1.8	405.7	SHALE ABOVE BRERETON LIMESTONE
167.5	CARBONDALE	BRERETON	LIMESTONE	1.5	407.5	
166.0	CARBONDALE	ANNA	BLACK SHALE	2.0	409.0	
164.0	CARBONDALE	HERRIN	COAL	4.0	411.0	

MAPID: 00500764000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.512871 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.946673 **DATE COLLECTED:** 7 / 0 / 1958
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: SCHAEFER OIL COMPANY **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00500637000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 24 **QUARTERS/FOOTAGES:** 360' N line, 1115' E line of NW SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.503899 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.951792 **DATE COLLECTED:** 4 / 0 / 1951
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: FILE RALPH N **WELL TYPE:** Dry Hole
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.0		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	15.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE

MAPID: 00501185000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.515234 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937645 **DATE COLLECTED:** 11 / 0 / 1940

SURFACE ELEVATION (FT.): 561.0 **LOGGED (FT.):** 442.0 **LOG TYPE:** Electric Log

SOURCE: BRAINERD, GEO. E. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.0	CARBONDALE	HERRIN	COAL	8.0	434.0	

MAPID: 00500644000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.526863 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.94346 **DATE COLLECTED:** 6 / 0 / 1948

SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 455.0 **LOG TYPE:** Electric Log

SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
156.0	MODESTO	PIASA	LIMESTONE	4.0	416.0	
152.0	MODESTO		UNCLASSIFIED	4.0	420.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
148.0	CARBONDALE		UNCLASSIFIED	10.5	424.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
137.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	434.5	
129.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	443.0	
127.5	CARBONDALE		UNCLASSIFIED	1.5	444.5	SHALE ABOVE BRERETON LIMESTONE
126.0	CARBONDALE	BRERETON	LIMESTONE	1.5	446.0	
124.5	CARBONDALE	ANNA	BLACK SHALE	2.5	447.5	
122.0	CARBONDALE	HERRIN	COAL	5.0	450.0	

MAPID: 00500803000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.533912 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.936374 **DATE COLLECTED:** 4 / 0 / 1959

SURFACE ELEVATION (FT.): 559.0 **LOGGED (FT.):** 446.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
157.0	MODESTO	PIASA	LIMESTONE	2.5	402.0	
154.5	MODESTO		UNCLASSIFIED	4.5	404.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
150.0	CARBONDALE		UNCLASSIFIED	17.0	409.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
133.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	426.0	
124.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	435.0	
122.5	CARBONDALE		UNCLASSIFIED	1.5	436.5	SHALE ABOVE BRERETON LIMESTONE
121.0	CARBONDALE	BRERETON	LIMESTONE	1.0	438.0	
120.0	CARBONDALE	ANNA	BLACK SHALE	2.0	439.0	
118.0	CARBONDALE	HERRIN	COAL	5.0	441.0	

MAPID: 00500034000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554773 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.944319 **DATE COLLECTED:** 2 / 0 / 1921

SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 364.8 **LOG TYPE:** Drillers Log

SOURCE: CONSOLIDATION COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
175.6	MODESTO	PIASA	LIMESTONE	3.0	317.4	
172.6	MODESTO		UNCLASSIFIED	4.0	320.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
168.6	CARBONDALE		UNCLASSIFIED	16.3	324.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
152.3	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.7	340.7	
140.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	352.4	
139.1	CARBONDALE		UNCLASSIFIED	1.5	353.9	SHALE ABOVE BRERETON LIMESTONE
137.6	CARBONDALE	BRERETON	LIMESTONE	2.5	355.4	
135.1	CARBONDALE	ANNA	BLACK SHALE	1.1	357.9	
134.0	CARBONDALE	HERRIN	COAL	5.8	359.0	

MAPID: 00500034000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554773 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.944319 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 364.8 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
176.0	MODESTO	PIASA	LIMESTONE	3.0	317.0	
173.0	MODESTO		SHALE	5.5	320.0	
167.5	CARBONDALE	DANVILLE	COAL	1.5	325.5	
166.0	CARBONDALE		GRAY SHALE	9.2	327.0	
156.8	CARBONDALE	BANKSTON FORK	LIMESTONE	8.5	336.2	
148.3	CARBONDALE	LAWSON	CALCAREOUS SHALE	3.0	344.7	
145.3	CARBONDALE	BRERETON	LIMESTONE	2.5	347.7	
142.8	CARBONDALE	ANNA	BLACK SHALE	1.1	350.2	
134.0	CARBONDALE	HERRIN	COAL	5.8	359.0	

MAPID: 00500034000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554773 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.944319 **DATE COLLECTED:** 0 / 0 / 1921
SURFACE ELEVATION (FT.): 492.5 **LOGGED (FT.):** 365.0 **LOG TYPE:**
SOURCE: CONSOL CC 0003 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.5	CARBONDALE	HERRIN	COAL	5.8	359.0	

MAPID: 00500147000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.557069 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.946237 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 1371.0 **LOG TYPE:**
SOURCE: JONES R E **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
95.0	CARBONDALE	HERRIN	COAL	5.0	395.0	

MAPID: 00500485000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.555003 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.935137 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 419.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
183.0	MODESTO	PIASA	LIMESTONE	3.0	372.0	
180.0	MODESTO		UNCLASSIFIED	4.0	375.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE		UNCLASSIFIED	17.5	379.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
158.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	396.5	
150.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	405.0	
147.5	CARBONDALE		UNCLASSIFIED	2.5	407.5	SHALE ABOVE BRERETON LIMESTONE
145.0	CARBONDALE	BRERETON	LIMESTONE	3.0	410.0	
142.0	CARBONDALE	ANNA	BLACK SHALE	2.0	413.0	
140.0	CARBONDALE	HERRIN	COAL	4.0	415.0	

MAPID: 00500486000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559434 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.946308 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 377.0 **LOG TYPE:** Electric Log

SOURCE: CENTRAL OIL PROD INC **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
170.5	MODESTO	PIASA	LIMESTONE	5.0	329.5	
165.5	MODESTO		UNCLASSIFIED	6.0	334.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
159.5	CARBONDALE		UNCLASSIFIED	16.5	340.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
143.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	357.0	
134.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	365.5	
133.5	CARBONDALE		UNCLASSIFIED	1.0	366.5	SHALE ABOVE BRERETON LIMESTONE
132.5	CARBONDALE	BRERETON	LIMESTONE	2.0	367.5	
130.5	CARBONDALE	ANNA	BLACK SHALE	2.5	369.5	
128.0	CARBONDALE	HERRIN	COAL	5.0	372.0	

MAPID: 00500500000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.557291 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937022 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 366.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
177.5	MODESTO	PIASA	LIMESTONE	3.0	323.5	
174.5	MODESTO		UNCLASSIFIED	4.0	326.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
170.5	CARBONDALE		UNCLASSIFIED	14.0	330.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
156.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	344.5	
147.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	353.5	
146.0	CARBONDALE		UNCLASSIFIED	1.5	355.0	SHALE ABOVE BRERETON LIMESTONE
144.5	CARBONDALE	BRERETON	LIMESTONE	3.0	356.5	
141.5	CARBONDALE	ANNA	BLACK SHALE	2.5	359.5	
139.0	CARBONDALE	HERRIN	COAL	4.0	362.0	

MAPID: 00500502000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559567 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.940767 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 493.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.0	MODESTO	PIASA	LIMESTONE	4.0	320.0	
177.0	MODESTO		UNCLASSIFIED	4.0	324.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
173.0	CARBONDALE		UNCLASSIFIED	19.0	328.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	347.0	
145.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	356.0	
144.0	CARBONDALE		UNCLASSIFIED	1.0	357.0	SHALE ABOVE BRERETON LIMESTONE
143.0	CARBONDALE	BRERETON	LIMESTONE	2.0	358.0	
141.0	CARBONDALE	ANNA	BLACK SHALE	2.0	360.0	
139.0	CARBONDALE	HERRIN	COAL	5.0	362.0	

MAPID: 00500643000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.550264 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.936829 **DATE COLLECTED:** 2 / 0 / 1957

SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 429.0 **LOG TYPE:** Electric Log

SOURCE: A. A. DRILLING CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.6	MODESTO	PIASA	LIMESTONE	4.0	388.4	
169.6	MODESTO		UNCLASSIFIED	4.5	392.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
165.1	CARBONDALE		UNCLASSIFIED	11.0	396.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	407.9	
145.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	416.4	
143.8	CARBONDALE		UNCLASSIFIED	1.8	418.2	SHALE ABOVE BRERETON LIMESTONE
142.0	CARBONDALE	BRERETON	LIMESTONE	2.5	420.0	
139.5	CARBONDALE	ANNA	BLACK SHALE	1.5	422.5	
138.0	CARBONDALE	HERRIN	COAL	5.0	424.0	

MAPID: 00500647000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.554869 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.940634 **DATE COLLECTED:** 3 / 0 / 1957

SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 369.5 **LOG TYPE:** Electric Log

SOURCE: CENTRAL OIL PROD INC **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.0	MODESTO	PIASA	LIMESTONE	4.5	323.0	
175.5	MODESTO		UNCLASSIFIED	4.5	327.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
171.0	CARBONDALE		UNCLASSIFIED	17.0	332.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
154.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	11.0	349.0	
143.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	360.0	
141.5	CARBONDALE		UNCLASSIFIED	1.5	361.5	SHALE ABOVE BRERETON LIMESTONE
140.0	CARBONDALE	ANNA	BLACK SHALE	2.0	363.0	
138.0	CARBONDALE	HERRIN	COAL	4.5	365.0	

MAPID: 00500443000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.568896 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.94474 **DATE COLLECTED:** 7 / 0 / 1956

SURFACE ELEVATION (FT.): 559.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log

SOURCE: DICKENSON OIL CO **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

MAPID: 00500504000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.56207 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.933477 **DATE COLLECTED:** 10 / 0 / 1956

SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 344.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
206.1	MODESTO	PIASA	LIMESTONE	3.5	297.9	
202.6	MODESTO		UNCLASSIFIED	5.5	301.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
197.1	CARBONDALE		UNCLASSIFIED	15.5	306.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
181.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	322.4	
173.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	330.4	
171.8	CARBONDALE		UNCLASSIFIED	1.8	332.2	SHALE ABOVE BRERETON LIMESTONE
170.0	CARBONDALE	BRERETON	LIMESTONE	3.0	334.0	
167.0	CARBONDALE	ANNA	BLACK SHALE	2.0	337.0	
165.0	CARBONDALE	HERRIN	COAL	5.0	339.0	

MAPID: 00500511000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.566483 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.946516 **DATE COLLECTED:** 10 / 0 / 1956

SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 436.5 **LOG TYPE:** Electric Log

SOURCE: DICKENSON OIL CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
173.1	MODESTO	PIASA	LIMESTONE	3.0	390.9	
170.1	MODESTO		UNCLASSIFIED	5.0	393.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
165.1	CARBONDALE		UNCLASSIFIED	17.0	398.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
148.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	415.9	
139.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	424.9	
137.8	CARBONDALE		UNCLASSIFIED	1.3	426.2	SHALE ABOVE BRERETON LIMESTONE
136.5	CARBONDALE	BRERETON	LIMESTONE	2.5	427.5	
134.0	CARBONDALE	ANNA	BLACK SHALE	2.0	430.0	
132.0	CARBONDALE	HERRIN	COAL	4.5	432.0	

MAPID: 00500523000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.571226 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.944813 **DATE COLLECTED:** 12 / 0 / 1956

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 427.0 **LOG TYPE:** Electric Log

SOURCE: CAHILL, D. J. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
155.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	405.0	
146.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	414.0	
144.0	CARBONDALE		UNCLASSIFIED	2.0	416.0	SHALE ABOVE BRERETON LIMESTONE
142.0	CARBONDALE	BRERETON	LIMESTONE	3.0	418.0	
139.0	CARBONDALE	ANNA	BLACK SHALE	2.0	421.0	
137.0	CARBONDALE	HERRIN	COAL	4.0	423.0	

MAPID: 00500525000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561985 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937157 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 336.5 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
204.0	MODESTO	PIASA	LIMESTONE	3.5	293.0	
200.5	MODESTO		UNCLASSIFIED	5.0	296.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
195.5	CARBONDALE		UNCLASSIFIED	14.0	301.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
181.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	315.5	
173.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	323.5	
172.0	CARBONDALE		UNCLASSIFIED	1.5	325.0	SHALE ABOVE BRERETON LIMESTONE
170.5	CARBONDALE	BRERETON	LIMESTONE	3.0	326.5	
167.5	CARBONDALE	ANNA	BLACK SHALE	2.5	329.5	
165.0	CARBONDALE	HERRIN	COAL	4.5	332.0	

MAPID: 00500668000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.573693 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937559 **DATE COLLECTED:** 4 / 0 / 1957

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 359.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
181.6	MODESTO	PIASA	LIMESTONE	3.0	317.4	
178.6	MODESTO		UNCLASSIFIED	3.5	320.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
175.1	CARBONDALE		UNCLASSIFIED	13.0	323.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
162.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	13.0	336.9	
149.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	349.9	
147.8	CARBONDALE		UNCLASSIFIED	1.3	351.2	SHALE ABOVE BRERETON LIMESTONE
146.5	CARBONDALE	BRERETON	LIMESTONE	1.0	352.5	
145.5	CARBONDALE	ANNA	BLACK SHALE	0.5	353.5	
145.0	CARBONDALE	HERRIN	COAL	5.0	354.0	

MAPID: 00500746000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.57598 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.941298 **DATE COLLECTED:** 12 / 0 / 1957

SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 361.5 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	MODESTO	PIASA	LIMESTONE	3.0	317.0	
184.0	MODESTO		UNCLASSIFIED	4.0	320.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.0	CARBONDALE		UNCLASSIFIED	17.0	324.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
163.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	341.0	
156.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	348.0	
154.0	CARBONDALE		UNCLASSIFIED	2.0	350.0	SHALE ABOVE BRERETON LIMESTONE
152.0	CARBONDALE	BRERETON	LIMESTONE	3.0	352.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	2.0	355.0	
147.0	CARBONDALE	HERRIN	COAL	4.5	357.0	

MAPID: 00500749000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.578358 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.939555 **DATE COLLECTED:** 11 / 0 / 1957

SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 393.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
190.5	MODESTO	PIASA	LIMESTONE	3.5	346.5	
187.0	MODESTO		UNCLASSIFIED	6.0	350.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
181.0	CARBONDALE		UNCLASSIFIED	14.0	356.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
167.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	370.0	
157.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	379.5	
155.0	CARBONDALE		UNCLASSIFIED	2.5	382.0	SHALE ABOVE BRERETON LIMESTONE
152.5	CARBONDALE	BRERETON	LIMESTONE	2.5	384.5	
150.0	CARBONDALE	ANNA	BLACK SHALE	2.0	387.0	
148.0	CARBONDALE	HERRIN	COAL	4.0	389.0	

MAPID: 00500757000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1710' S line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.561982 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.937284 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 340.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
198.0	MODESTO	PIASA	LIMESTONE	5.0	296.0	
193.0	CARBONDALE		SHALE	27.0	301.0	
166.0	CARBONDALE	BRERETON	LIMESTONE	3.0	328.0	
163.0	CARBONDALE	ANNA	SHALE	2.0	331.0	
159.0	CARBONDALE	HERRIN	COAL	5.0	335.0	

MAPID: 00500747000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.580706 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.937781 **DATE COLLECTED:** 1 / 0 / 1958

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 405.5 **LOG TYPE:** Electric Log

SOURCE: DULL, JOE A. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
189.5	MODESTO	PIASA	LIMESTONE	4.0	358.5	
185.5	MODESTO		UNCLASSIFIED	4.0	362.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
181.5	CARBONDALE		UNCLASSIFIED	17.5	366.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
164.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	384.0	
157.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	390.5	
155.0	CARBONDALE		UNCLASSIFIED	2.5	393.0	SHALE ABOVE BRERETON LIMESTONE
152.5	CARBONDALE	BRERETON	LIMESTONE	4.0	395.5	
148.5	CARBONDALE	ANNA	BLACK SHALE	1.5	399.5	
147.0	CARBONDALE	HERRIN	COAL	4.5	401.0	

MAPID: 00500787000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 1750' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.585757 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.934202 **DATE COLLECTED:** 1 / 0 / 1959

SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 427.5 **LOG TYPE:** Electric Log

SOURCE: DUNCAN, WALTER **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
185.6	MODESTO	PIASA	LIMESTONE	2.5	382.4	
183.1	MODESTO		UNCLASSIFIED	6.0	384.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
177.1	CARBONDALE		UNCLASSIFIED	16.0	390.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
161.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	406.9	
153.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	414.9	
151.8	CARBONDALE		UNCLASSIFIED	1.3	416.2	SHALE ABOVE BRERETON LIMESTONE
150.5	CARBONDALE	BRERETON	LIMESTONE	3.5	417.5	
147.0	CARBONDALE	ANNA	BLACK SHALE	2.0	421.0	
145.0	CARBONDALE	HERRIN	COAL	4.5	423.0	

MAPID: 00500787000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 1750' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.585757 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.934202 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 568.0 **LOGGED (FT.):** 428.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
185.0	MODESTO	PIASA	LIMESTONE	2.5	383.0	
182.5	CARBONDALE		SHALE	32.0	385.5	
150.5	CARBONDALE	BRERETON	LIMESTONE	3.5	417.5	
147.0	CARBONDALE	ANNA	SHALE	2.0	421.0	
145.0	CARBONDALE	HERRIN	COAL	5.0	423.0	

MAPID: 00500738000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.585405 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.926909 **DATE COLLECTED:** 11 / 0 / 1957

SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 407.5 **LOG TYPE:** Electric Log

SOURCE: FARRAR OIL CO., INC. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
194.0	MODESTO	PIASA	LIMESTONE	2.5	362.0	
191.5	MODESTO		UNCLASSIFIED	5.0	364.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
186.5	CARBONDALE	DANVILLE	COAL	2.0	369.5	
184.5	CARBONDALE		UNCLASSIFIED	12.5	371.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
172.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	384.0	
163.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	393.0	
161.5	CARBONDALE		UNCLASSIFIED	1.5	394.5	SHALE ABOVE BRERETON LIMESTONE
160.0	CARBONDALE	BRERETON	LIMESTONE	5.5	396.0	
154.5	CARBONDALE	ANNA	BLACK SHALE	2.5	401.5	
152.0	CARBONDALE	HERRIN	COAL	3.5	404.0	

MAPID: 00500738000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 2310' N line, 1650' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.585405 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.926909 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	CARBONDALE		SHALE	24.0	363.0	
169.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	387.0	LOWER BENCH
167.0	CARBONDALE	LAWSON	SHALE	4.5	389.0	
162.5	CARBONDALE	CONANT	LIMESTONE	1.0	393.5	
161.5	CARBONDALE		SHALE	2.0	394.5	
159.5	CARBONDALE	BRERETON	LIMESTONE	5.0	396.5	
154.5	CARBONDALE	ANNA	SHALE	2.5	401.5	
152.0	CARBONDALE	HERRIN	COAL	4.0	404.0	

MAPID: 00523125000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 1406' N line, 35' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.5797 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.929317 **DATE COLLECTED:** 2 / 3 / 1967

SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 420.0 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL W-25 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
157.7	CARBONDALE	HERRIN	COAL	5.9	409.3	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.2		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500493000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 990' N line, 870' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.564015 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.929904 **DATE COLLECTED:** 10 / 0 / 1956

SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 334.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
203.0	MODESTO	PIASA	LIMESTONE	3.0	291.0	
200.0	MODESTO		UNCLASSIFIED	5.5	294.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
194.5	CARBONDALE		UNCLASSIFIED	15.5	299.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
179.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	315.0	
173.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	321.0	
171.5	CARBONDALE	CONANT	UNCLASSIFIED	1.0	322.5	
170.5	CARBONDALE		UNCLASSIFIED	2.5	323.5	SHALE ABOVE BRERETON LIMESTONE
168.0	CARBONDALE	BRERETON	LIMESTONE	1.5	326.0	
166.5	CARBONDALE	ANNA	BLACK SHALE	2.5	327.5	
164.0	CARBONDALE	HERRIN	COAL	4.0	330.0	

MAPID: 00500493000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 990' N line, 870' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.564015 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.929904 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 334.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
202.0	MODESTO	PIASA	LIMESTONE	2.5	292.0	
199.5	CARBONDALE		SHALE	30.0	294.5	
169.5	CARBONDALE	BRERETON	LIMESTONE	2.0	324.5	
167.5	CARBONDALE	ANNA	SHALE	3.0	326.5	
164.0	CARBONDALE	HERRIN	COAL	4.0	330.0	

MAPID: 00500506000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.564426 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.93174 **DATE COLLECTED:** 10 / 0 / 1956

SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 338.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	MODESTO	PIASA	LIMESTONE	3.0	292.0	
202.0	MODESTO		UNCLASSIFIED	3.5	295.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
198.5	CARBONDALE		UNCLASSIFIED	16.5	298.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
182.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	315.0	
173.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	324.0	
171.0	CARBONDALE		UNCLASSIFIED	2.0	326.0	SHALE ABOVE BRERETON LIMESTONE
169.0	CARBONDALE	BRERETON	LIMESTONE	3.5	328.0	
165.5	CARBONDALE	ANNA	BLACK SHALE	2.5	331.5	
163.0	CARBONDALE	HERRIN	COAL	4.0	334.0	

MAPID: 00523126000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 515' S line, 65' E line of SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.570508 **GEOLOGIST:** E. PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.919699 **DATE COLLECTED:** 12 / 3 / 1968

SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 426.3 **LOG TYPE:** Other Core Study

SOURCE: CARTER OIL WF-204 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.6	CARBONDALE	HERRIN	COAL	5.9	412.4	CLEAN COAL, SEE LOG
-	CARBONDALE	HERRIN	ROCK	0.1		TOTAL IN-SEAM PARTINGS-SEE LOG

MAPID: 00500412000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 2310' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552769 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.931398 **DATE COLLECTED:** 2 / 0 / 1956

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
189.1	MODESTO	PIASA	LIMESTONE	3.0	375.9	
186.1	MODESTO		UNCLASSIFIED	6.0	378.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.1	CARBONDALE		UNCLASSIFIED	19.0	384.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
161.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	403.9	
151.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	413.4	
150.3	CARBONDALE		UNCLASSIFIED	1.3	414.7	SHALE ABOVE BRERETON LIMESTONE
149.0	CARBONDALE	BRERETON	LIMESTONE	2.0	416.0	
147.0	CARBONDALE	ANNA	BLACK SHALE	2.0	418.0	
145.0	CARBONDALE	HERRIN	COAL	4.0	420.0	

MAPID: 00500412000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 2310' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.552769 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.931398 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 426.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	MODESTO	PIASA	LIMESTONE	3.0	378.0	
184.0	CARBONDALE		SHALE	31.0	381.0	
153.0	CARBONDALE	BRERETON	LIMESTONE	3.0	412.0	
150.0	CARBONDALE	ANNA	SHALE	4.0	415.0	
144.0	CARBONDALE	HERRIN	COAL	5.5	421.0	

MAPID: 00500426000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.55041 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.924061 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 409.5 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
196.5	MODESTO	PIASA	LIMESTONE	2.0	363.5	
194.5	MODESTO		UNCLASSIFIED	6.0	365.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
188.5	CARBONDALE	DANVILLE	COAL	2.0	371.5	
186.5	CARBONDALE		UNCLASSIFIED	14.0	373.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
172.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	387.5	
164.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	395.5	
163.0	CARBONDALE		UNCLASSIFIED	1.5	397.0	SHALE ABOVE BRERETON LIMESTONE
161.5	CARBONDALE	BRERETON	LIMESTONE	4.0	398.5	
157.5	CARBONDALE	ANNA	BLACK SHALE	1.5	402.5	
156.0	CARBONDALE	HERRIN	COAL	5.5	404.0	

MAPID: 00500457000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.550404 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.925883 **DATE COLLECTED:** 8 / 0 / 1956

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
190.0	MODESTO	PIASA	LIMESTONE	3.0	358.0	
187.0	MODESTO		UNCLASSIFIED	6.5	361.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.5	CARBONDALE		UNCLASSIFIED	18.5	367.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
162.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	386.0	
154.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	394.0	
152.5	CARBONDALE		UNCLASSIFIED	1.5	395.5	SHALE ABOVE BRERETON LIMESTONE
151.0	CARBONDALE	BRERETON	LIMESTONE	2.0	397.0	
149.0	CARBONDALE	ANNA	BLACK SHALE	3.0	399.0	
146.0	CARBONDALE	HERRIN	COAL	4.0	402.0	

MAPID: 00500462000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.555116 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.922391 **DATE COLLECTED:** 7 / 0 / 1956

SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 360.5 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
202.5	MODESTO	PIASA	LIMESTONE	3.0	313.5	
199.5	MODESTO		UNCLASSIFIED	6.0	316.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
193.5	CARBONDALE		UNCLASSIFIED	19.0	322.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	341.5	
165.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	350.5	
163.5	CARBONDALE		UNCLASSIFIED	2.0	352.5	SHALE ABOVE BRERETON LIMESTONE
161.5	CARBONDALE	BRERETON	LIMESTONE	0.5	354.5	
161.0	CARBONDALE	ANNA	BLACK SHALE	1.0	355.0	
160.0	CARBONDALE	HERRIN	COAL	4.5	356.0	

MAPID: 00500466000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 380' N line, 330' E line of NW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.548049 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.923852 **DATE COLLECTED:** 6 / 0 / 1956

SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 388.5 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.1	MODESTO	PIASA	LIMESTONE	2.0	347.9	
185.1	MODESTO		UNCLASSIFIED	5.0	349.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.1	CARBONDALE		UNCLASSIFIED	14.0	354.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	368.9	
161.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.8	373.9	
159.3	CARBONDALE		UNCLASSIFIED	1.8	375.7	SHALE ABOVE BRERETON LIMESTONE
157.5	CARBONDALE	BRERETON	LIMESTONE	4.0	377.5	
153.5	CARBONDALE	ANNA	BLACK SHALE	2.5	381.5	
151.0	CARBONDALE	HERRIN	COAL	4.5	384.0	

MAPID: 00500477000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.557421 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.927895 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 541.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
203.0	MODESTO	PIASA	LIMESTONE	6.0	338.0	
197.0	MODESTO		UNCLASSIFIED	7.0	344.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
190.0	CARBONDALE		UNCLASSIFIED	22.5	351.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
167.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.5	373.5	
158.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	383.0	
157.0	CARBONDALE		UNCLASSIFIED	1.0	384.0	SHALE ABOVE BRERETON LIMESTONE
156.0	CARBONDALE	BRERETON	LIMESTONE	1.0	385.0	
155.0	CARBONDALE	ANNA	BLACK SHALE	2.0	386.0	
153.0	CARBONDALE	HERRIN	COAL	6.0	388.0	

MAPID: 00500488000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559768 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.931585 **DATE COLLECTED:** 10 / 0 / 1956

SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
202.0	MODESTO	PIASA	LIMESTONE	6.0	346.0	
196.0	MODESTO		UNCLASSIFIED	5.0	352.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
191.0	CARBONDALE		UNCLASSIFIED	17.0	357.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	374.0	
164.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	384.0	
163.0	CARBONDALE		UNCLASSIFIED	1.0	385.0	SHALE ABOVE BRERETON LIMESTONE
162.0	CARBONDALE	BRERETON	LIMESTONE	1.0	386.0	
161.0	CARBONDALE	ANNA	BLACK SHALE	2.0	387.0	
159.0	CARBONDALE	HERRIN	COAL	5.0	389.0	

MAPID: 00500512000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559822 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.920713 **DATE COLLECTED:** 10 / 0 / 1956

SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 341.0 **LOG TYPE:** Electric Log

SOURCE: NASH & REDWINE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
207.0	MODESTO	PIASA	LIMESTONE	3.0	288.0	
204.0	MODESTO		UNCLASSIFIED	5.0	291.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
199.0	CARBONDALE		UNCLASSIFIED	25.0	296.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
174.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	321.0	
166.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	329.0	
164.5	CARBONDALE		UNCLASSIFIED	1.5	330.5	SHALE ABOVE BRERETON LIMESTONE
163.0	CARBONDALE	BRERETON	LIMESTONE	2.0	332.0	
161.0	CARBONDALE	ANNA	BLACK SHALE	2.0	334.0	
159.0	CARBONDALE	HERRIN	COAL	5.0	336.0	

MAPID: 00500807000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.559795 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.92616 **DATE COLLECTED:** 7 / 0 / 1959

SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log

SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	4.5		
-	MODESTO		UNCLASSIFIED	7.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	2.0		
-	CARBONDALE		UNCLASSIFIED	16.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0		
-	CARBONDALE	CONANT	UNCLASSIFIED	1.0		
-	CARBONDALE		UNCLASSIFIED	1.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	2.0		
-	CARBONDALE	ANNA	BLACK SHALE	3.5		

MAPID: 00501202000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.548034 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.927631 **DATE COLLECTED:** 5 / 0 / 1964

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
178.6	MODESTO	PIASA	LIMESTONE	4.5	379.4	
174.1	MODESTO		UNCLASSIFIED	5.5	383.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
168.6	CARBONDALE		UNCLASSIFIED	13.0	389.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
155.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.5	402.4	
145.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	0.8	412.9	
144.3	CARBONDALE		UNCLASSIFIED	0.8	413.7	SHALE ABOVE BRERETON LIMESTONE
143.5	CARBONDALE	BRERETON	LIMESTONE	1.5	414.5	
142.0	CARBONDALE	ANNA	BLACK SHALE	2.0	416.0	
140.0	CARBONDALE	HERRIN	COAL	6.0	418.0	

MAPID: 00500035000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** SE NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.529313 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.928949 **DATE COLLECTED:** 10 / 0 / 1906

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log

SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO		UNCLASSIFIED	3.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	14.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	4.5		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 116

MAPID: 00500035000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** SE NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.529313 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.928949 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 389.0 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
169.5	MODESTO		SHALE	17.0	329.5	
152.5	CARBONDALE		SILTY SHALE	20.0	346.5	
132.5	CARBONDALE	LAWSON	CALCAREOUS SANDSTONE	10.0	366.5	
122.5	CARBONDALE	BRERETON	LIMESTONE	4.5	376.5	
118.0	CARBONDALE	ANNA	BLACK SHALE	2.0	381.0	
116.0	CARBONDALE	HERRIN	COAL	6.0	383.0	

MAPID: 00500035000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** SE NW NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.529313 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.928949 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 498.8 **LOGGED (FT.):** 399.0 **LOG TYPE:**

SOURCE: DONK BROS **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.8	CARBONDALE	HERRIN	COAL	6.0	383.0	

MAPID: 00500627000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.538671 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.925545 **DATE COLLECTED:** 10 / 0 / 1954

SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 394.0 **LOG TYPE:** Electric Log

SOURCE: WELKER OIL CO., LTD. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	4.0	347.0	
189.0	MODESTO		UNCLASSIFIED	6.0	351.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.0	CARBONDALE		UNCLASSIFIED	16.5	357.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	373.5	
160.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	380.0	
157.0	CARBONDALE		UNCLASSIFIED	3.0	383.0	SHALE ABOVE BRERETON LIMESTONE
154.0	CARBONDALE	BRERETON	LIMESTONE	3.5	386.0	
150.5	CARBONDALE	ANNA	BLACK SHALE	1.5	389.5	
149.0	CARBONDALE	HERRIN	COAL	3.0	391.0	

MAPID: 00500725000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.541032 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.920139 **DATE COLLECTED:** 9 / 0 / 1957

SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 399.0 **LOG TYPE:** Electric Log

SOURCE: SHULMON BROS **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.5	CARBONDALE	DANVILLE	COAL	1.0	388.5	
147.5	CARBONDALE		UNCLASSIFIED	7.5	389.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
140.0	CARBONDALE	HERRIN	COAL	2.0	397.0	CORRELATION UNCERTAIN: FAULTED OR ERODED

MAPID: 00500927000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 355' N line, 414' E line of SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.534298 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.923536 **DATE COLLECTED:** 5 / 0 / 1962
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 414.0 **LOG TYPE:** Electric Log
SOURCE: COVINGTON & COOPER **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
186.5	MODESTO	PIASA	LIMESTONE	2.5	368.5	
184.0	MODESTO		UNCLASSIFIED	4.5	371.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
179.5	CARBONDALE		UNCLASSIFIED	15.5	375.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
164.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	391.0	
157.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	398.0	
154.0	CARBONDALE		UNCLASSIFIED	3.0	401.0	SHALE ABOVE BRERETON LIMESTONE
151.0	CARBONDALE	BRERETON	LIMESTONE	4.0	404.0	
147.0	CARBONDALE	ANNA	BLACK SHALE	2.0	408.0	
145.0	CARBONDALE	HERRIN	COAL	4.0	410.0	

MAPID: 00523127000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 34 **QUARTERS/FOOTAGES:** 30' S line, 75' W line of SE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.537263 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.917379 **DATE COLLECTED:** 6 / 5 / 1967
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 404.0 **LOG TYPE:** Other Core Study
SOURCE: CARTER OIL WF-32 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
155.5	CARBONDALE	HERRIN	COAL	5.3	394.5	

MAPID: 00590003000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 6N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.515241 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 38.917619 **DATE COLLECTED:** 11 / 16 / 1914
SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 488.3 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. #16 **WELL TYPE:** Coal Test
COMMENT: MAP 15-K-Z

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
571.0			UNKNOWN	486.6	0.0	
84.4	CARBONDALE	HERRIN	COAL	1.8	486.6	

MAPID: 00500036000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:**
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.611045 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.996266 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 561.9 **LOGGED (FT.):** 410.0 **LOG TYPE:**
SOURCE: DONK BROS 0003 **WELL TYPE:** Coal Test
COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
221.9	CARBONDALE	HERRIN	COAL	0.3	340.0	

MAPID: 00500036000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 1 **QUARTERS/FOOTAGES:**
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.611045 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.996266 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	1.0		
-	MODESTO		UNCLASSIFIED	5.7		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	0.3		
-	CARBONDALE		UNCLASSIFIED	11.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.5		

MAPID: 00500132000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 11 **QUARTERS/FOOTAGES:** 1010' N line, 4300' E line
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.635384 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.990302 **DATE COLLECTED:** 0 / 0 / 1937
SURFACE ELEVATION (FT.): 603.5 **LOGGED (FT.):** 3101.0 **LOG TYPE:**
SOURCE: HUBER JM **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
219.5	CARBONDALE	HERRIN	COAL	4.0	384.0	

MAPID: 00500132000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 11 **QUARTERS/FOOTAGES:** 1010' N line, 4300' E line

QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.635384 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.990302 **DATE COLLECTED:** 0 / 0 / 1937

SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 359.0 **LOG TYPE:** Drillers Log

SOURCE: HUBER J M CORP **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
293.0	MODESTO	PIASA	LIMESTONE	5.0	311.0	
288.0	MODESTO		UNCLASSIFIED	5.0	316.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
283.0	CARBONDALE		UNCLASSIFIED	11.0	321.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
272.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	332.0	
264.0	CARBONDALE	BRERETON	LIMESTONE	8.0	340.0	
256.0	CARBONDALE	ANNA	BLACK SHALE	5.0	348.0	
251.0	CARBONDALE	HERRIN	COAL	6.0	353.0	

MAPID: 00500037000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 12 **QUARTERS/FOOTAGES:** SW SW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609476 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.979126 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Drillers Log

SOURCE: AMELING BROS. & CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
241.5	MODESTO	PIASA	LIMESTONE	4.0	335.5	
237.5	MODESTO		UNCLASSIFIED	5.0	339.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
232.5	CARBONDALE		UNCLASSIFIED	15.0	344.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
217.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	359.5	
210.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	366.5	
208.5	CARBONDALE	BRERETON	LIMESTONE	6.5	368.5	
202.0	CARBONDALE	HERRIN	COAL	5.0	375.0	

MAPID: 00500037000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 12 **QUARTERS/FOOTAGES:** SW SW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609476 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.979126 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 379.0 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
241.0	MODESTO	PIASA	LIMESTONE	3.0	335.0	
238.0	MODESTO		SHALE	15.5	338.0	
222.5	CARBONDALE	DANVILLE	COAL	1.0	353.5	
221.5	CARBONDALE		GRAY SHALE	4.0	354.5	
217.5	CARBONDALE	BANKSTON FORK	LIMESTONE	15.5	358.5	LOWER BENCH
202.0	CARBONDALE	HERRIN	COAL WITH SHALE PARTINGS	5.0	374.0	

MAPID: 00500037000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 12 **QUARTERS/FOOTAGES:** SW SW SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.609476 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.979126 **DATE COLLECTED:** 0 / 0 / 1909

SURFACE ELEVATION (FT.): 576.5 **LOGGED (FT.):** 500.0 **LOG TYPE:**

SOURCE: AMELING 0001 **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
201.5	CARBONDALE	HERRIN	COAL	5.0	375.0	

MAPID: 00500133000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 12 **QUARTERS/FOOTAGES:** 300' N line, 330' E line of NE NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.612154 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 38.992394 **DATE COLLECTED:** 0 / 0 / 1939

SURFACE ELEVATION (FT.): 590.1 **LOGGED (FT.):** 3154.0 **LOG TYPE:**

SOURCE: KESL JOE **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
225.1	CARBONDALE	HERRIN	COAL	7.0	365.0	

MAPID: 00500133000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 12 **QUARTERS/FOOTAGES:** 300' N line, 330' E line of NE NE NW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.612154 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.992394 **DATE COLLECTED:** 0 / 0 / 1939

SURFACE ELEVATION (FT.): 591.0 **LOGGED (FT.):** 373.0 **LOG TYPE:** Drillers Log

SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
270.0	MODESTO	PIASA	LIMESTONE	9.0	321.0	
261.0	MODESTO		UNCLASSIFIED	5.0	330.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
256.0	CARBONDALE		UNCLASSIFIED	12.0	335.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
244.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	347.0	
237.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	354.0	
235.0	CARBONDALE	BRERETON	LIMESTONE	4.0	356.0	
231.0	CARBONDALE	ANNA	BLACK SHALE	6.0	360.0	
225.0	CARBONDALE	HERRIN	COAL	7.0	366.0	

MAPID: 00500916000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 13 **QUARTERS/FOOTAGES:** 2110' S line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.602254 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.968918 **DATE COLLECTED:** 8 / 0 / 1961

SURFACE ELEVATION (FT.): 619.0 **LOGGED (FT.):** 413.5 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
248.5	MODESTO	PIASA	LIMESTONE	5.0	370.5	
243.5	MODESTO		UNCLASSIFIED	4.0	375.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
239.5	CARBONDALE		UNCLASSIFIED	15.0	379.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
224.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	394.5	
218.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	400.5	
217.0	CARBONDALE	BRERETON	LIMESTONE	6.0	402.0	
211.0	CARBONDALE	ANNA	BLACK SHALE	2.0	408.0	
209.0	CARBONDALE	HERRIN	COAL	3.5	410.0	

MAPID: 00500916000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 13 **QUARTERS/FOOTAGES:** 2110' S line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.602254 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.968918 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 619.0 **LOGGED (FT.):** 416.0 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
246.0	MODESTO	PIASA	LIMESTONE	1.0	373.0	
245.0	MODESTO		SHALE	12.0	374.0	
233.0	CARBONDALE	DANVILLE	COAL	1.0	386.0	
232.0	CARBONDALE		GRAY SHALE	10.0	387.0	
222.0	CARBONDALE	LAWSON	GRAY SHALE	6.0	397.0	
216.0	CARBONDALE	BRERETON	LIMESTONE	5.0	403.0	
211.0	CARBONDALE	ANNA	SHALE	3.0	408.0	
206.0	CARBONDALE	HERRIN	BLACK SHALE	3.0	413.0	

MAPID: 00500201000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 14 **QUARTERS/FOOTAGES:** 360' S line, 330' W line of NW SE SE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.6233 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.965889 **DATE COLLECTED:** 8 / 0 / 1946

SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 389.0 **LOG TYPE:** Electric Log

SOURCE: EASON, T. T. & CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
254.0	MODESTO	PIASA	LIMESTONE	4.0	346.0	
250.0	MODESTO		UNCLASSIFIED	4.0	350.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
246.0	CARBONDALE		UNCLASSIFIED	12.0	354.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
234.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	366.0	
229.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	371.0	
226.0	CARBONDALE		UNCLASSIFIED	2.0	374.0	SHALE ABOVE BRERETON LIMESTONE
224.0	CARBONDALE	BRERETON	LIMESTONE	6.0	376.0	
218.0	CARBONDALE	ANNA	BLACK SHALE	4.0	382.0	
214.0	CARBONDALE	HERRIN	COAL	3.0	386.0	

MAPID: 00500201000C **VERSION:** 2 **PROJECT:** CONTROL

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 14 **QUARTERS/FOOTAGES:** 360' S line, 330' W line of NW SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.6233 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.965889 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2668.0 **LOG TYPE:** Survey Sample Study
SOURCE: SOHIO PETROLEUM 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: 00500038000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.632573 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.952876 **DATE COLLECTED:** 3 / 0 / 1909
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: AMELING,H.R. PRSPCTNG CO **WELL TYPE:** Coal Test
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	5.0		
-	MODESTO		UNCLASSIFIED	5.5		INTERVAL ABOVE DANVILLE, BELOW PIASA

MAPID: 00500038000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.632573 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.952876 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	LAWSON	GRAY SHALE	2.0		
-	CARBONDALE	BRERETON	LIMESTONE	5.5		
-	CARBONDALE	ANNA	BLACK SHALE	1.5		
-	CARBONDALE	ENERGY	GRAY SHALE	4.0		
-	CARBONDALE	ENERGY	CALCAREOUS SANDSTONE	20.0		
-	CARBONDALE	ENERGY	SANDSTONE	10.0		

MAPID: 00500038000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.632573 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.952876 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 575.7 **LOGGED (FT.):** 451.0 **LOG TYPE:**
SOURCE: AMELING 0003 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	UNCLASSIFIED	0.0		
-	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	0.0		

MAPID: 00500039000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.602006 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.956667 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 578.0 **LOGGED (FT.):** 1003.0 **LOG TYPE:**
SOURCE: FREEHOLD O0001 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
206.0	CARBONDALE	HERRIN	COAL	0.8	372.0	
-	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	0.0		

MAPID: 00500040000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.604319 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.954812 **DATE COLLECTED:** 0 / 0 / 1909
SURFACE ELEVATION (FT.): 597.1 **LOGGED (FT.):** 514.0 **LOG TYPE:**
SOURCE: AMELING 0002 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	UNCLASSIFIED	0.0		
-	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	0.0		

MAPID: 00500750000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.615946 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.949167 **DATE COLLECTED:** 1 / 0 / 1958

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

SOURCE: CASSENS GEORGE **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	6.0		
-	MODESTO		UNCLASSIFIED	3.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	15.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0		
-	CARBONDALE		UNCLASSIFIED	2.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	6.0		
-	CARBONDALE	ANNA	BLACK SHALE	4.0		

MAPID: 00500632000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 26 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.620508 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.943665 **DATE COLLECTED:** 11 / 0 / 1946

SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log

SOURCE: SOHIO PETROLEUM CO. **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	8.0		
-	MODESTO		UNCLASSIFIED	4.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	12.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	4.0		

MAPID: 00500632000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 26 **QUARTERS/FOOTAGES:** 1650' N line, 330' E line
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.620508 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.943665 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 636.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
237.0	MODESTO	PIASA	LIMESTONE	3.0	346.0	
234.0	CARBONDALE		SHALE	18.0	349.0	
216.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	367.0	LOWER BENCH
211.0	CARBONDALE	ENERGY	SHALE	5.0	372.0	
206.0	CARBONDALE	ENERGY	SANDSTONE	99.0	377.0	
107.0	CARBONDALE	ENERGY	SANDSTONE	60.0	476.0	

MAPID: 00500041000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 35 **QUARTERS/FOOTAGES:** SW NW SE SE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.622794 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.920912 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 553.5 **LOGGED (FT.):** 493.0 **LOG TYPE:**
SOURCE: DONK BROS 0001 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	UNCLASSIFIED	0.0		
-	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	0.0		

MAPID: 00500726000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.63163 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.924977 **DATE COLLECTED:** 10 / 0 / 1957
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Structure Test
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.5		
-	MODESTO		UNCLASSIFIED	4.5		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	13.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0		

MAPID: 00500740000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.627078 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.92686 **DATE COLLECTED:** 12 / 0 / 1957
SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.0		
-	MODESTO		UNCLASSIFIED	4.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	13.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0		

MAPID: 00500748000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 35 **QUARTERS/FOOTAGES:** 990' N line, 990' W line of SW
QUADRANGLE: NEW DOUGLAS **LONGITUDE:** -89.63381 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.923125 **DATE COLLECTED:** 2 / 0 / 1958
SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	6.0		
-	MODESTO		UNCLASSIFIED	3.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE		UNCLASSIFIED	11.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0		

MAPID: 00500042000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 36 **QUARTERS/FOOTAGES:** NE SE NE
QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.601263 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 38.928925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 556.1 **LOGGED (FT.):** 414.0 **LOG TYPE:**
SOURCE: DONK BROS 0008 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
159.1	CARBONDALE	HERRIN	COAL	3.0	397.0	

MAPID: 00500042000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 6N 5W **SECTION:** 36 **QUARTERS/FOOTAGES:** NE SE NE

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.601263 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 38.928925 **DATE COLLECTED:** 0 / 0 / 1900

SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 402.9 **LOG TYPE:** Drillers Log

SOURCE: DONK BROS. COAL & COKE **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
183.0	MODESTO	PIASA	LIMESTONE	3.0	373.0	
180.0	MODESTO		UNCLASSIFIED	4.0	376.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
176.0	CARBONDALE		UNCLASSIFIED	13.0	380.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
163.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	393.0	
159.0	CARBONDALE	HERRIN	COAL	5.9	397.0	

MAPID: 00500346000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.302579 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.021806 **DATE COLLECTED:** 11 / 0 / 1955

SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 535.0 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.5	MODESTO	PIASA	LIMESTONE	7.0	481.5	
120.5	MODESTO		UNCLASSIFIED	7.0	488.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
113.5	CARBONDALE	DANVILLE	COAL	1.0	495.5	
112.5	CARBONDALE		UNCLASSIFIED	15.0	496.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
97.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	511.5	
88.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	520.5	
87.0	CARBONDALE		UNCLASSIFIED	1.5	522.0	SHALE ABOVE BRERETON LIMESTONE
85.5	CARBONDALE	BRERETON	LIMESTONE	3.5	523.5	
82.0	CARBONDALE	ANNA	BLACK SHALE	3.0	527.0	
79.0	CARBONDALE	HERRIN	COAL	5.0	530.0	

MAPID: 00500384000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.300156 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.019985 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 607.0 **LOGGED (FT.):** 542.0 **LOG TYPE:** Electric Log

SOURCE: SUN DRLG CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
120.0	MODESTO	PIASA	LIMESTONE	5.5	487.0	
114.5	MODESTO		UNCLASSIFIED	9.5	492.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
105.0	CARBONDALE	DANVILLE	COAL	1.0	502.0	
104.0	CARBONDALE		UNCLASSIFIED	19.0	503.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
85.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	522.0	
79.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	528.0	
77.0	CARBONDALE		UNCLASSIFIED	2.0	530.0	SHALE ABOVE BRERETON LIMESTONE
75.0	CARBONDALE	BRERETON	LIMESTONE	3.0	532.0	
72.0	CARBONDALE	ANNA	BLACK SHALE	2.0	535.0	
70.0	CARBONDALE	HERRIN	COAL	5.0	537.0	

MAPID: 00500384000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.300156 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.019985 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 607.0 **LOGGED (FT.):** 540.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
119.0	MODESTO	PIASA	LIMESTONE	3.5	488.0	
115.5	CARBONDALE		SHALE	43.0	491.5	
72.5	CARBONDALE	LAWSON	SHALE	1.0	534.5	
70.0	CARBONDALE	HERRIN	COAL	3.5	537.0	

MAPID: 00500449000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.302613 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.023639 **DATE COLLECTED:** 5 / 0 / 1956

SURFACE ELEVATION (FT.): 611.0 **LOGGED (FT.):** 548.0 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
115.5	MODESTO	PIASA	LIMESTONE	5.0	495.5	
110.5	MODESTO		UNCLASSIFIED	9.0	500.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
101.5	CARBONDALE	DANVILLE	COAL	1.0	509.5	
100.5	CARBONDALE		UNCLASSIFIED	17.5	510.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
83.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.5	528.0	
74.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	536.5	
73.5	CARBONDALE		UNCLASSIFIED	1.0	537.5	SHALE ABOVE BRERETON LIMESTONE
72.5	CARBONDALE	BRERETON	LIMESTONE	1.0	538.5	
71.5	CARBONDALE	ANNA	BLACK SHALE	1.5	539.5	
70.0	CARBONDALE	HERRIN	COAL	7.0	541.0	

MAPID: 00500453000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.304828 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.019965 **DATE COLLECTED:** 7 / 0 / 1956

SURFACE ELEVATION (FT.): 607.0 **LOGGED (FT.):** 551.0 **LOG TYPE:** Electric Log

SOURCE: HOILES, C E **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
74.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	533.0	
66.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	541.0	
65.0	CARBONDALE		UNCLASSIFIED	1.0	542.0	SHALE ABOVE BRERETON LIMESTONE
64.0	CARBONDALE	BRERETON	LIMESTONE	2.0	543.0	
62.0	CARBONDALE	ANNA	BLACK SHALE	2.0	545.0	
60.0	CARBONDALE	HERRIN	COAL	4.0	547.0	

MAPID: 00500732000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 27 **QUARTERS/FOOTAGES:** 430' S line, 430' W line of SE NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.299896 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.022102 **DATE COLLECTED:** 10 / 0 / 1957

SURFACE ELEVATION (FT.): 616.0 **LOGGED (FT.):** 540.0 **LOG TYPE:** Electric Log

SOURCE: SMITH & CAHILL BOCKS **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
99.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	517.0	
90.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	526.0	
88.0	CARBONDALE		UNCLASSIFIED	2.0	528.0	SHALE ABOVE BRERETON LIMESTONE
86.0	CARBONDALE	BRERETON	LIMESTONE	2.0	530.0	
84.0	CARBONDALE	ANNA	BLACK SHALE	2.0	532.0	
82.0	CARBONDALE	HERRIN	COAL	6.0	534.0	

MAPID: 00500001000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW SE SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.30995 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 39.013994 **DATE COLLECTED:** 8 / 28 / 1913

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 512.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY C C **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
571.0			UNCONSOLIDATED	117.0	0.0	
454.0			ROCK	111.5	117.0	
342.5			COAL	0.5	228.5	
342.0			ROCK	25.7	229.0	
316.3			COAL	0.3	254.7	
316.0			ROCK	165.8	255.0	
150.2			COAL	0.3	420.8	
150.0			ROCK	53.5	421.0	
96.5			SHALE	13.5	474.5	
83.0			LIMESTONE	2.8	488.0	
80.2			SHALE	5.8	490.8	
74.5			LIMESTONE	2.5	496.5	
72.0			SHALE	3.0	499.0	
69.0			LIMESTONE	2.8	502.0	
66.2	CARBONDALE	HERRIN	COAL	4.7	504.8	
61.5			ROCK	2.5	509.5	

MAPID: 00500001000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW SE SE
QUADRANGLE: FILLMORE **LONGITUDE:** -89.30995 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.013994 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 509.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
109.0	MODESTO	PIASA	LIMESTONE	5.5	462.0	
103.5	MODESTO		DARK GRAY SHALE	6.7	467.5	
96.8	CARBONDALE		SHALE	5.5	474.2	
91.3	CARBONDALE		GRAY SHALE	2.0	479.7	
89.3	CARBONDALE		DARK GRAY SHALE	6.0	481.7	
83.3	CARBONDALE	BANKSTON FORK	LIMESTONE	2.8	487.7	UPPER BENCH
80.6	CARBONDALE	BANKSTON FORK	CALCAREOUS SHALE	5.8	490.4	SHALE PARTING
74.8	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	496.2	LOWER BENCH
72.3	CARBONDALE	LAWSON	CALCAREOUS SHALE	1.0	498.7	
71.3	CARBONDALE		SHALE	2.0	499.7	
69.3	CARBONDALE	BRERETON	LIMESTONE	2.8	501.7	
66.0	CARBONDALE	HERRIN	COAL	4.7	505.0	

MAPID: 00500001000C **VERSION:** 3 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW SE SE
QUADRANGLE: FILLMORE **LONGITUDE:** -89.30995 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.013994 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 571.3 **LOGGED (FT.):** 512.0 **LOG TYPE:**
SOURCE: PEABODY CC, BOCKSTCK J 9 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
383.3	BOND	CARTHAGE	LIMESTONE	-	188.0	
66.3	CARBONDALE	HERRIN	COAL	4.7	505.0	

MAPID: 00500001000C **VERSION:** 4 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW SE SE
QUADRANGLE: FILLMORE **LONGITUDE:** -89.30995 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.013994 **DATE COLLECTED:** 8 / 0 / 1913
SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 509.7 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
108.5	MODESTO	PIASA	LIMESTONE	5.5	462.5	
103.0	MODESTO		UNCLASSIFIED	6.2	468.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
96.8	CARBONDALE	DANVILLE	COAL	0.5	474.2	
96.3	CARBONDALE		UNCLASSIFIED	13.5	474.7	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.8	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	488.2	
76.8	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	494.2	
74.3	CARBONDALE	CONANT	UNCLASSIFIED	2.5	496.7	
71.8	CARBONDALE		UNCLASSIFIED	3.0	499.2	SHALE ABOVE BRERETON LIMESTONE
68.8	CARBONDALE	BRERETON	LIMESTONE	1.0	502.2	
67.8	CARBONDALE	ANNA	BLACK SHALE	1.8	503.2	
66.0	CARBONDALE	HERRIN	COAL	4.7	505.0	

MAPID: 00500450000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: FILLMORE **LONGITUDE:** -89.307273 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.02543 **DATE COLLECTED:** 5 / 0 / 1956
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 565.0 **LOG TYPE:** Electric Log
SOURCE: SCHWARTZ MAX **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
97.0	MODESTO	PIASA	LIMESTONE	6.0	512.0	
91.0	MODESTO		UNCLASSIFIED	6.5	518.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
84.5	CARBONDALE	DANVILLE	COAL	0.5	524.5	
84.0	CARBONDALE		UNCLASSIFIED	16.0	525.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
68.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	541.0	
59.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	550.0	
58.0	CARBONDALE		UNCLASSIFIED	1.0	551.0	SHALE ABOVE BRERETON LIMESTONE
57.0	CARBONDALE	BRERETON	LIMESTONE	2.0	552.0	
55.0	CARBONDALE	ANNA	BLACK SHALE	4.0	554.0	
51.0	CARBONDALE	HERRIN	COAL	7.0	558.0	

MAPID: 00500633000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.307163 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.01995 **DATE COLLECTED:** 2 / 0 / 1954

SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 533.0 **LOG TYPE:** Electric Log

SOURCE: CALVERT DRLG., INC., THE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
105.0	MODESTO	PIASA	LIMESTONE	4.5	484.0	
100.5	MODESTO		UNCLASSIFIED	7.5	488.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
93.0	CARBONDALE	DANVILLE	COAL	1.0	496.0	
92.0	CARBONDALE		UNCLASSIFIED	18.0	497.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
74.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	515.0	
69.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	520.0	
68.0	CARBONDALE		UNCLASSIFIED	1.0	521.0	SHALE ABOVE BRERETON LIMESTONE
67.0	CARBONDALE	BRERETON	LIMESTONE	2.5	522.0	
64.5	CARBONDALE	ANNA	BLACK SHALE	3.5	524.5	
61.0	CARBONDALE	HERRIN	COAL	5.0	528.0	

MAPID: 00500199000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.360443 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.012299 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 1496.0 **LOG TYPE:**

SOURCE: MAGNOLIA, PRATER EST 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
423.0	BOND	CARTHAGE	LIMESTONE	-	174.0	
114.0	CARBONDALE	HERRIN	COAL	-	483.0	

MAPID: 00500199000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.360443 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.012299 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 488.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
153.0	MODESTO	PIASA	LIMESTONE	4.0	444.0	
149.0	MODESTO		SHALE	11.0	448.0	
138.0	CARBONDALE	DANVILLE	COAL	2.0	459.0	
136.0	CARBONDALE		SHALE	10.0	461.0	
126.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	471.0	LOWER BENCH
121.0	CARBONDALE	LAWSON	SHALE	6.0	476.0	
115.0	CARBONDALE	BRERETON	LIMESTONE	3.0	482.0	
113.0	CARBONDALE	HERRIN	COAL	4.0	484.0	

MAPID: 00500199000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.360443 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.012299 **DATE COLLECTED:** 0 / 0 / 1944

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

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	5.0		
-	MODESTO		UNCLASSIFIED	2.5		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	1.0		
-	CARBONDALE		UNCLASSIFIED	18.5		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5		
-	CARBONDALE		UNCLASSIFIED	2.5		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	1.0		
-	CARBONDALE	ANNA	BLACK SHALE	1.0		
-	CARBONDALE	HERRIN	COAL	5.0		ELEVATION OF HERRIN = 116

MAPID: 00500248000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.306831 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.005414 **DATE COLLECTED:** 5 / 0 / 1955

SURFACE ELEVATION (FT.): 563.0 **LOGGED (FT.):** 485.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
129.1	MODESTO	PIASA	LIMESTONE	4.0	433.9	
125.1	MODESTO		UNCLASSIFIED	6.0	437.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
119.1	CARBONDALE	DANVILLE	COAL	2.0	443.9	
117.1	CARBONDALE		UNCLASSIFIED	18.0	445.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
99.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	463.9	
94.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.3	468.9	
91.8	CARBONDALE		UNCLASSIFIED	2.3	471.2	SHALE ABOVE BRERETON LIMESTONE
89.5	CARBONDALE	BRERETON	LIMESTONE	3.5	473.5	
86.0	CARBONDALE	ANNA	BLACK SHALE	3.0	477.0	
83.0	CARBONDALE	HERRIN	COAL	5.0	480.0	

MAPID: 00500257000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 405' S line, 1650' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.31137 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.000196 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 516.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
127.1	MODESTO	PIASA	LIMESTONE	5.0	467.9	
122.1	MODESTO		UNCLASSIFIED	3.0	472.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
119.1	CARBONDALE	DANVILLE	COAL	1.0	475.9	
118.1	CARBONDALE		UNCLASSIFIED	18.0	476.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
100.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	494.9	
91.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	0.8	503.9	
90.3	CARBONDALE		UNCLASSIFIED	0.8	504.7	SHALE ABOVE BRERETON LIMESTONE
89.5	CARBONDALE	BRERETON	LIMESTONE	1.0	505.5	
88.5	CARBONDALE	ANNA	BLACK SHALE	3.5	506.5	
85.0	CARBONDALE	HERRIN	COAL	6.0	510.0	

MAPID: 00500257000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 405' S line, 1650' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.31137 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.000196 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 517.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
126.0	MODESTO	PIASA	LIMESTONE	3.0	469.0	
123.0	CARBONDALE		SHALE	23.0	472.0	
100.0	CARBONDALE	BANKSTON FORK	SHALE	3.0	495.0	UPPER BENCH
97.0	CARBONDALE	BANKSTON FORK	SHALE	3.0	498.0	SHALE PARTING
94.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	501.0	LOWER BENCH
91.0	CARBONDALE	LAWSON	SHALE	1.0	504.0	
90.0	CARBONDALE	BRERETON	LIMESTONE	4.0	505.0	
83.0	CARBONDALE	HERRIN	COAL	5.0	512.0	

MAPID: 00500260000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.311478 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003603 **DATE COLLECTED:** 5 / 0 / 1955

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 480.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.0	MODESTO	PIASA	LIMESTONE	4.0	434.0	
133.0	MODESTO		UNCLASSIFIED	6.0	438.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
127.0	CARBONDALE	DANVILLE	COAL	2.0	444.0	
125.0	CARBONDALE		UNCLASSIFIED	17.0	446.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
108.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	463.0	
102.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	468.5	
101.0	CARBONDALE		UNCLASSIFIED	1.5	470.0	SHALE ABOVE BRERETON LIMESTONE
99.5	CARBONDALE	BRERETON	LIMESTONE	1.0	471.5	
98.5	CARBONDALE	ANNA	BLACK SHALE	1.5	472.5	
97.0	CARBONDALE	HERRIN	COAL	6.0	474.0	

MAPID: 00500265000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.311636 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.010833 **DATE COLLECTED:** 6 / 0 / 1955

SURFACE ELEVATION (FT.): 596.0 **LOGGED (FT.):** 506.5 **LOG TYPE:** Electric Log

SOURCE: TROOP & YARBROUGH **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.5	MODESTO	PIASA	LIMESTONE	4.5	461.5	
130.0	MODESTO		UNCLASSIFIED	4.0	466.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
126.0	CARBONDALE	DANVILLE	COAL	0.5	470.0	
125.5	CARBONDALE		UNCLASSIFIED	15.5	470.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
110.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	486.0	
103.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	493.0	
102.0	CARBONDALE		UNCLASSIFIED	1.0	494.0	SHALE ABOVE BRERETON LIMESTONE
101.0	CARBONDALE	BRERETON	LIMESTONE	2.0	495.0	
99.0	CARBONDALE	ANNA	BLACK SHALE	5.0	497.0	
94.0	CARBONDALE	HERRIN	COAL	4.5	502.0	

MAPID: 00500275000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.311437 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.001781 **DATE COLLECTED:** 5 / 0 / 1977

SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 516.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	MODESTO	PIASA	LIMESTONE	4.5	470.0	
120.5	MODESTO		UNCLASSIFIED	4.5	474.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
116.0	CARBONDALE	DANVILLE	COAL	2.0	479.0	
114.0	CARBONDALE		UNCLASSIFIED	16.0	481.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
98.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	497.0	
90.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	505.0	
88.5	CARBONDALE		UNCLASSIFIED	1.5	506.5	SHALE ABOVE BRERETON LIMESTONE
87.0	CARBONDALE	BRERETON	LIMESTONE	1.5	508.0	
85.5	CARBONDALE	ANNA	BLACK SHALE	1.5	509.5	
84.0	CARBONDALE	HERRIN	COAL	5.0	511.0	

MAPID: 00500314000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.306876 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.007237 **DATE COLLECTED:** 8 / 0 / 1955

SURFACE ELEVATION (FT.): 563.0 **LOGGED (FT.):** 480.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
123.1	MODESTO	PIASA	LIMESTONE	3.5	439.9	
119.6	MODESTO		UNCLASSIFIED	4.3	443.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
115.3	CARBONDALE		UNCLASSIFIED	13.3	447.7	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
102.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	461.0	
98.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	465.0	
96.5	CARBONDALE		UNCLASSIFIED	1.5	466.5	SHALE ABOVE BRERETON LIMESTONE
95.0	CARBONDALE	BRERETON	LIMESTONE	4.0	468.0	
91.0	CARBONDALE	ANNA	BLACK SHALE	4.0	472.0	
87.0	CARBONDALE	HERRIN	COAL	4.0	476.0	

MAPID: 00500315000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.30692 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.00902 **DATE COLLECTED:** 8 / 0 / 1955

SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 480.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
131.0	MODESTO	PIASA	LIMESTONE	5.0	429.0	
126.0	MODESTO		UNCLASSIFIED	8.0	434.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
118.0	CARBONDALE	DANVILLE	COAL	2.0	442.0	
116.0	CARBONDALE		UNCLASSIFIED	18.0	444.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
98.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	462.0	
90.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	470.0	
88.5	CARBONDALE		UNCLASSIFIED	1.0	471.5	SHALE ABOVE BRERETON LIMESTONE
87.5	CARBONDALE	BRERETON	LIMESTONE	1.0	472.5	
86.5	CARBONDALE	ANNA	BLACK SHALE	1.5	473.5	
85.0	CARBONDALE	HERRIN	COAL	5.0	475.0	

MAPID: 00500634000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 380' E line of NE SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.306963 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003628 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 495.5 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.6	MODESTO	PIASA	LIMESTONE	3.5	445.4	
140.1	MODESTO		UNCLASSIFIED	8.5	448.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.6	CARBONDALE	DANVILLE	COAL	2.0	457.4	
129.6	CARBONDALE		UNCLASSIFIED	17.0	459.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
112.6	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	476.4	
108.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	480.4	
107.3	CARBONDALE		UNCLASSIFIED	1.3	481.7	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	BRERETON	LIMESTONE	3.5	483.0	
102.5	CARBONDALE	ANNA	BLACK SHALE	4.5	486.5	
98.0	CARBONDALE	HERRIN	COAL	4.5	491.0	

MAPID: 00500719000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.306742 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.001806 **DATE COLLECTED:** 4 / 0 / 1955

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 505.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.0	MODESTO	PIASA	LIMESTONE	5.0	457.0	
135.0	MODESTO		UNCLASSIFIED	7.0	462.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
128.0	CARBONDALE	DANVILLE	COAL	1.0	469.0	
127.0	CARBONDALE		UNCLASSIFIED	17.0	470.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
110.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	487.0	
103.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	494.0	
101.5	CARBONDALE		UNCLASSIFIED	1.0	495.5	SHALE ABOVE BRERETON LIMESTONE
100.5	CARBONDALE	BRERETON	LIMESTONE	1.0	496.5	
99.5	CARBONDALE	ANNA	BLACK SHALE	1.5	497.5	
98.0	CARBONDALE	HERRIN	COAL	6.0	499.0	

MAPID: 00501189000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.306697 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.000023 **DATE COLLECTED:** 3 / 0 / 1955

SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 486.0 **LOG TYPE:** Electric Log

SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.5	MODESTO	PIASA	LIMESTONE	4.5	442.5	
142.0	MODESTO		UNCLASSIFIED	4.0	447.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
138.0	CARBONDALE	DANVILLE	COAL	1.0	451.0	
137.0	CARBONDALE		UNCLASSIFIED	16.0	452.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
121.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	468.0	
113.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	475.5	
112.0	CARBONDALE		UNCLASSIFIED	1.5	477.0	SHALE ABOVE BRERETON LIMESTONE
110.5	CARBONDALE	BRERETON	LIMESTONE	1.0	478.5	
109.5	CARBONDALE	ANNA	BLACK SHALE	1.5	479.5	
108.0	CARBONDALE	HERRIN	COAL	5.0	481.0	

MAPID: 00500192000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** SW SE NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.299965 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.007286 **DATE COLLECTED:** 0 / 0 / 1941

SURFACE ELEVATION (FT.): 587.0 **LOGGED (FT.):** 1125.0 **LOG TYPE:**

SOURCE: BRAGASA FH, DEMAULIN P 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
95.0	CARBONDALE	HERRIN	COAL	-	492.0	

MAPID: 00500291000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 660' S line, 990' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.302049 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.000967 **DATE COLLECTED:** 6 / 0 / 1955

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 462.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
137.0	MODESTO	PIASA	LIMESTONE	4.0	415.0	
133.0	MODESTO		UNCLASSIFIED	3.0	419.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
130.0	CARBONDALE	DANVILLE	COAL	1.0	422.0	
129.0	CARBONDALE		UNCLASSIFIED	22.0	423.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
107.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	445.0	
100.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	452.0	
99.0	CARBONDALE		UNCLASSIFIED	1.0	453.0	SHALE ABOVE BRERETON LIMESTONE
98.0	CARBONDALE	BRERETON	LIMESTONE	1.0	454.0	
97.0	CARBONDALE	ANNA	BLACK SHALE	1.0	455.0	
96.0	CARBONDALE	HERRIN	COAL	6.0	456.0	

MAPID: 00500291000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 660' S line, 990' W line

QUADRANGLE: FILLMORE **LONGITUDE:** -89.302049 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.000967 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 552.0 **LOGGED (FT.):** 450.5 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
147.0	MODESTO	PIASA	LIMESTONE	3.5	405.0	
143.5	CARBONDALE		SHALE	26.5	408.5	
117.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.5	435.0	
112.5	CARBONDALE	LAWSON	SHALE	5.0	439.5	
106.0	CARBONDALE	HERRIN	COAL	4.5	446.0	

MAPID: 00500292000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.304451 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003644 **DATE COLLECTED:** 6 / 0 / 1955

SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 463.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	LIMESTONE	4.0	416.0	
138.0	MODESTO		UNCLASSIFIED	5.0	420.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
133.0	CARBONDALE	DANVILLE	COAL	2.0	425.0	
131.0	CARBONDALE		UNCLASSIFIED	16.0	427.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
115.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	443.0	
110.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	448.0	
108.0	CARBONDALE		UNCLASSIFIED	2.0	450.0	SHALE ABOVE BRERETON LIMESTONE
106.0	CARBONDALE	BRERETON	LIMESTONE	3.0	452.0	
103.0	CARBONDALE	ANNA	BLACK SHALE	3.0	455.0	
100.0	CARBONDALE	HERRIN	COAL	5.0	458.0	

MAPID: 00500302000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.299777 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.000072 **DATE COLLECTED:** 7 / 0 / 1955

SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 457.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
143.6	MODESTO	PIASA	LIMESTONE	5.5	413.4	
138.1	MODESTO		UNCLASSIFIED	3.0	418.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
135.1	CARBONDALE	DANVILLE	COAL	1.0	421.9	
134.1	CARBONDALE		UNCLASSIFIED	16.0	422.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
118.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	3.5	438.9	
114.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	0.8	442.4	
113.8	CARBONDALE		UNCLASSIFIED	0.8	443.2	SHALE ABOVE BRERETON LIMESTONE
113.0	CARBONDALE	BRERETON	LIMESTONE	3.5	444.0	
109.5	CARBONDALE	ANNA	BLACK SHALE	4.5	447.5	
105.0	CARBONDALE	HERRIN	COAL	5.0	452.0	

MAPID: 00500337000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.30454 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.007252 **DATE COLLECTED:** 9 / 0 / 1955

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 505.5 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
128.0	MODESTO	PIASA	LIMESTONE	4.0	460.0	
124.0	MODESTO		UNCLASSIFIED	9.0	464.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
115.0	CARBONDALE	DANVILLE	COAL	1.0	473.0	
114.0	CARBONDALE		UNCLASSIFIED	12.5	474.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
101.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	486.5	
94.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	494.0	
92.5	CARBONDALE		UNCLASSIFIED	1.5	495.5	SHALE ABOVE BRERETON LIMESTONE
91.0	CARBONDALE	BRERETON	LIMESTONE	1.5	497.0	
89.5	CARBONDALE	ANNA	BLACK SHALE	1.5	498.5	
88.0	CARBONDALE	HERRIN	COAL	5.5	500.0	

MAPID: 00500343000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.304496 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.00543 **DATE COLLECTED:** 8 / 0 / 1955

SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 483.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
136.0	MODESTO	PIASA	LIMESTONE	4.0	435.0	
132.0	MODESTO		UNCLASSIFIED	8.5	439.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
123.5	CARBONDALE	DANVILLE	COAL	1.0	447.5	
122.5	CARBONDALE		UNCLASSIFIED	13.5	448.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
109.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	462.0	
103.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	468.0	
101.0	CARBONDALE		UNCLASSIFIED	2.0	470.0	SHALE ABOVE BRERETON LIMESTONE
99.0	CARBONDALE	BRERETON	LIMESTONE	1.0	472.0	
98.0	CARBONDALE	ANNA	BLACK SHALE	3.0	473.0	
95.0	CARBONDALE	HERRIN	COAL	7.0	476.0	

MAPID: 00500375000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.299818 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.001861 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 564.0 **LOGGED (FT.):** 473.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
139.6	MODESTO	PIASA	LIMESTONE	5.0	424.4	
134.6	MODESTO		UNCLASSIFIED	4.0	429.4	INTERVAL ABOVE DANVILLE, BELOW PIASA
130.6	CARBONDALE	DANVILLE	COAL	1.5	433.4	
129.1	CARBONDALE		UNCLASSIFIED	16.0	434.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	450.9	
106.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.8	457.9	
103.3	CARBONDALE		UNCLASSIFIED	2.8	460.7	SHALE ABOVE BRERETON LIMESTONE
100.5	CARBONDALE	BRERETON	LIMESTONE	3.0	463.5	
97.5	CARBONDALE	ANNA	BLACK SHALE	1.5	466.5	
96.0	CARBONDALE	HERRIN	COAL	5.0	468.0	

MAPID: 00500376000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.299862 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003666 **DATE COLLECTED:** 10 / 0 / 1955

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 502.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
134.0	MODESTO	PIASA	LIMESTONE	5.0	454.0	
129.0	MODESTO		UNCLASSIFIED	5.0	459.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
124.0	CARBONDALE	DANVILLE	COAL	1.0	464.0	
123.0	CARBONDALE		UNCLASSIFIED	17.0	465.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
106.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	482.0	
98.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	490.0	
96.5	CARBONDALE		UNCLASSIFIED	1.5	491.5	SHALE ABOVE BRERETON LIMESTONE
95.0	CARBONDALE	BRERETON	LIMESTONE	1.5	493.0	
93.5	CARBONDALE	ANNA	BLACK SHALE	1.5	494.5	
92.0	CARBONDALE	HERRIN	COAL	6.0	496.0	

MAPID: 00500397000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.299947 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.007294 **DATE COLLECTED:** 9 / 0 / 1955

SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 501.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
133.0	MODESTO	PIASA	LIMESTONE	3.5	452.0	
129.5	MODESTO		UNCLASSIFIED	8.0	455.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
121.5	CARBONDALE	DANVILLE	COAL	1.0	463.5	
120.5	CARBONDALE		UNCLASSIFIED	16.0	464.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
104.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	480.5	
100.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	484.5	
99.0	CARBONDALE		UNCLASSIFIED	1.5	486.0	SHALE ABOVE BRERETON LIMESTONE
97.5	CARBONDALE	BRERETON	LIMESTONE	3.5	487.5	
94.0	CARBONDALE	ANNA	BLACK SHALE	4.0	491.0	
90.0	CARBONDALE	HERRIN	COAL	6.0	495.0	

MAPID: 00500404000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.299907 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.005488 **DATE COLLECTED:** 1 / 0 / 1956

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 512.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
125.0	MODESTO	PIASA	LIMESTONE	6.5	463.0	
118.5	MODESTO		UNCLASSIFIED	3.0	469.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
115.5	CARBONDALE	DANVILLE	COAL	1.5	472.5	
114.0	CARBONDALE		UNCLASSIFIED	15.5	474.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
98.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	489.5	
92.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	495.5	
90.5	CARBONDALE		UNCLASSIFIED	2.0	497.5	SHALE ABOVE BRERETON LIMESTONE
88.5	CARBONDALE	BRERETON	LIMESTONE	4.0	499.5	
84.5	CARBONDALE	ANNA	BLACK SHALE	3.5	503.5	
81.0	CARBONDALE	HERRIN	COAL	5.0	507.0	

MAPID: 00500405000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.302197 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003665 **DATE COLLECTED:** 1 / 0 / 1956

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 501.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.1	MODESTO	PIASA	LIMESTONE	4.0	449.9	
136.1	MODESTO		UNCLASSIFIED	7.5	453.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
128.6	CARBONDALE	DANVILLE	COAL	1.0	461.4	
127.6	CARBONDALE		UNCLASSIFIED	17.5	462.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
110.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.5	479.9	
105.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	484.4	
104.3	CARBONDALE		UNCLASSIFIED	1.3	485.7	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	4.0	487.0	
99.0	CARBONDALE	ANNA	BLACK SHALE	4.0	491.0	
95.0	CARBONDALE	HERRIN	COAL	6.0	495.0	

MAPID: 00500410000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.304585 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.009035 **DATE COLLECTED:** 12 / 0 / 1955

SURFACE ELEVATION (FT.): 594.0 **LOGGED (FT.):** 518.0 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
126.0	MODESTO	PIASA	LIMESTONE	5.5	468.0	
120.5	MODESTO		UNCLASSIFIED	6.5	473.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
114.0	CARBONDALE	DANVILLE	COAL	2.0	480.0	
112.0	CARBONDALE		UNCLASSIFIED	16.0	482.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
96.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	498.0	
92.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	502.0	
91.0	CARBONDALE		UNCLASSIFIED	1.0	503.0	SHALE ABOVE BRERETON LIMESTONE
90.0	CARBONDALE	BRERETON	LIMESTONE	4.0	504.0	
86.0	CARBONDALE	ANNA	BLACK SHALE	4.0	508.0	
82.0	CARBONDALE	HERRIN	COAL	6.0	512.0	

MAPID: 00500419000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.295314 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.005516 **DATE COLLECTED:** 3 / 0 / 1956

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 527.0 **LOG TYPE:** Electric Log

SOURCE: LIPE, HAROLD **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
120.0	MODESTO	PIASA	LIMESTONE	7.0	468.0	
113.0	MODESTO		UNCLASSIFIED	9.0	475.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
104.0	CARBONDALE	DANVILLE	COAL	2.0	484.0	
102.0	CARBONDALE		UNCLASSIFIED	19.5	486.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
82.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.5	505.5	
77.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	511.0	
75.5	CARBONDALE		UNCLASSIFIED	1.5	512.5	SHALE ABOVE BRERETON LIMESTONE
74.0	CARBONDALE	BRERETON	LIMESTONE	5.0	514.0	
69.0	CARBONDALE	ANNA	BLACK SHALE	3.0	519.0	
66.0	CARBONDALE	HERRIN	COAL	5.0	522.0	

MAPID: 00500503000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.304407 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.001824 **DATE COLLECTED:** 9 / 0 / 1956

SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 458.0 **LOG TYPE:** Electric Log

SOURCE: TROOP & LARSEN **WELL TYPE:** Service Well

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
140.5	MODESTO	PIASA	LIMESTONE	3.5	410.5	
137.0	MODESTO		UNCLASSIFIED	6.0	414.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
131.0	CARBONDALE	DANVILLE	COAL	2.0	420.0	
129.0	CARBONDALE		UNCLASSIFIED	16.0	422.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
113.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	438.0	
107.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.0	444.0	
105.0	CARBONDALE		UNCLASSIFIED	2.0	446.0	SHALE ABOVE BRERETON LIMESTONE
103.0	CARBONDALE	BRERETON	LIMESTONE	3.0	448.0	
100.0	CARBONDALE	ANNA	BLACK SHALE	2.0	451.0	
98.0	CARBONDALE	HERRIN	COAL	5.0	453.0	

MAPID: 00501190000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: MULBERRY GROVE **LONGITUDE:** -89.304362 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.000038 **DATE COLLECTED:** 2 / 0 / 1955

SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 486.5 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Producer-Oil

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
160.0	MODESTO	PIASA	LIMESTONE	4.5	437.0	
155.5	MODESTO		UNCLASSIFIED	5.5	441.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
150.0	CARBONDALE	DANVILLE	COAL	1.0	447.0	
149.0	CARBONDALE		UNCLASSIFIED	21.5	448.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	469.5	
120.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	476.5	
119.5	CARBONDALE		UNCLASSIFIED	1.0	477.5	SHALE ABOVE BRERETON LIMESTONE
118.5	CARBONDALE	BRERETON	LIMESTONE	1.0	478.5	
117.5	CARBONDALE	ANNA	BLACK SHALE	1.5	479.5	
116.0	CARBONDALE	HERRIN	COAL	5.5	481.0	

MAPID: 00501191000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 2W **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE

QUADRANGLE: FILLMORE **LONGITUDE:** -89.295269 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003722 **DATE COLLECTED:** 2 / 0 / 1955

SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 531.5 **LOG TYPE:** Electric Log

SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
93.5	MODESTO	PIASA	LIMESTONE	5.0	496.5	
88.5	MODESTO		UNCLASSIFIED	1.5	501.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
87.0	CARBONDALE		UNCLASSIFIED	9.5	503.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
77.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	4.0	512.5	
73.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	516.5	
72.0	CARBONDALE		UNCLASSIFIED	1.5	518.0	SHALE ABOVE BRERETON LIMESTONE
70.5	CARBONDALE	BRERETON	LIMESTONE	4.0	519.5	
66.5	CARBONDALE	ANNA	BLACK SHALE	3.5	523.5	
63.0	CARBONDALE	HERRIN	COAL	4.5	527.0	

MAPID: 00501463000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** 1000' N line, 1500' W line
QUADRANGLE: FILLMORE **LONGITUDE:** -89.375039 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.024935 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 513.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. 242BB **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
142.0	MODESTO	PIASA	CALCAREOUS SHALE	1.7	458.0	
140.3	MODESTO		VARRIGATED SHALE	27.4	459.7	
112.9	CARBONDALE		CALCAREOUS SHALE	2.8	487.1	
110.1	CARBONDALE		CALCAREOUS SHALE	2.2	489.9	
107.9	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	492.1	LOWER BENCH
104.9	CARBONDALE	LAWSON	SHALE	5.4	495.1	
99.5	CARBONDALE		CALCAREOUS SHALE	5.2	500.5	
94.0	CARBONDALE	HERRIN	COAL	7.2	506.0	

MAPID: 00501463000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 25 **QUARTERS/FOOTAGES:** 1000' N line, 1500' W line
QUADRANGLE: FILLMORE **LONGITUDE:** -89.375039 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.024935 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 602.0 **LOGGED (FT.):** 512.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. 242BB **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
115.8	CARBONDALE	BANKSTON FORK	LIMESTONE	8.3	486.2	
107.5	CARBONDALE	ANVIL ROCK	SANDSTONE	3.0	494.5	
104.5	CARBONDALE		SHALE	1.1	497.5	
103.4	CARBONDALE	ANNA	BLACK SHALE	6.4	498.6	
97.0	CARBONDALE	HERRIN	COAL	7.2	505.0	

MAPID: 00500002000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** SW SE NE
QUADRANGLE: COFFEEN **LONGITUDE:** -89.383783 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.021339 **DATE COLLECTED:** 0 / 0 / 1913
SURFACE ELEVATION (FT.): 547.0 **LOGGED (FT.):** 483.0 **LOG TYPE:**
SOURCE: PEABODY 0008 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
117.0	CARBONDALE	HERRIN	COAL	7.0	430.0	

MAPID: 00500002000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** SW SE NE

QUADRANGLE: COFFEEN **LONGITUDE:** -89.383783 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.021339 **DATE COLLECTED:** 7 / 0 / 1913

SURFACE ELEVATION (FT.): 547.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
151.5	MODESTO	PIASA	LIMESTONE	1.8	395.5	
149.7	MODESTO		UNCLASSIFIED	5.0	397.3	INTERVAL ABOVE DANVILLE, BELOW PIASA
144.7	CARBONDALE		UNCLASSIFIED	12.3	402.3	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
132.4	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.8	414.6	
125.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.5	421.4	
122.1	CARBONDALE		UNCLASSIFIED	1.6	424.9	SHALE ABOVE BRERETON LIMESTONE
120.5	CARBONDALE	BRERETON	LIMESTONE	1.5	426.5	
119.0	CARBONDALE	ANNA	BLACK SHALE	2.0	428.0	
117.0	CARBONDALE	HERRIN	COAL	7.0	430.0	

MAPID: 00500517000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW SE

QUADRANGLE: COFFEEN **LONGITUDE:** -89.387238 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.018601 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Drillers Log

SOURCE: PEABODY COAL CO. 8 **WELL TYPE:** Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
169.0	MODESTO	PIASA	LIMESTONE	1.8	396.0	
167.2	MODESTO		VARRIGATED SHALE	8.3	397.8	
159.0	CARBONDALE		CALCAREOUS SHALE	8.0	406.0	
151.0	CARBONDALE		BLACK SHALE	1.0	414.0	
150.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.8	415.0	LOWER BENCH
143.2	CARBONDALE	LAWSON	CALCAREOUS SHALE	3.5	421.8	
139.7	CARBONDALE	ANNA	BLACK SHALE	5.1	425.3	
135.0	CARBONDALE	HERRIN	COAL	7.0	430.0	

MAPID: 00500517000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: COFFEEN **LONGITUDE:** -89.387238 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.018601 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 437.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 8 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
169.5	MODESTO	PIASA	LIMESTONE	1.8	395.5	
167.7	MODESTO		UNCLASSIFIED	4.3	397.3	
163.4	CARBONDALE		UNCLASSIFIED	13.0	401.6	
150.4	CARBONDALE	BANKSTON FORK	LIMESTONE	6.8	414.6	
143.6	CARBONDALE	ANVIL ROCK	SANDSTONE	3.5	421.4	
140.1	CARBONDALE		SHALE	2.0	424.9	
138.1	CARBONDALE	BRERETON	LIMESTONE	1.1	426.9	
137.0	CARBONDALE	ANNA	BLACK SHALE	2.0	428.0	
135.0	CARBONDALE	HERRIN	COAL	7.0	430.0	

MAPID: 00500463000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 350' W line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.4163 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.026728 **DATE COLLECTED:** 6 / 0 / 1956
SURFACE ELEVATION (FT.): 619.0 **LOGGED (FT.):** 489.0 **LOG TYPE:** Electric Log
SOURCE: YEMM L & JANSEN V **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
137.0	CARBONDALE	HERRIN	COAL	7.0	482.0	

MAPID: 00500628000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW

QUADRANGLE: COFFEEN **LONGITUDE:** -89.449244 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.026791 **DATE COLLECTED:** 8 / 0 / 1950

SURFACE ELEVATION (FT.): 627.0 **LOGGED (FT.):** 475.0 **LOG TYPE:** Electric Log

SOURCE: DERRINGTON H H **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	MODESTO	PIASA	LIMESTONE	5.0	422.0	
200.0	MODESTO		UNCLASSIFIED	7.0	427.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
193.0	CARBONDALE	DANVILLE	COAL	1.5	434.0	
191.5	CARBONDALE		UNCLASSIFIED	18.5	435.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
173.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	454.0	
165.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	461.5	
164.0	CARBONDALE		UNCLASSIFIED	1.5	463.0	SHALE ABOVE BRERETON LIMESTONE
162.5	CARBONDALE	BRERETON	LIMESTONE	2.5	464.5	
160.0	CARBONDALE	ANNA	BLACK SHALE	1.0	467.0	
159.0	CARBONDALE	HERRIN	COAL	7.0	468.0	

MAPID: 00500636000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: COFFEEN **LONGITUDE:** -89.453899 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.013793 **DATE COLLECTED:** 3 / 0 / 1950

SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 475.0 **LOG TYPE:** Electric Log

SOURCE: C & M PRODUCTION CO. **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	5.0	427.0	
188.0	MODESTO		UNCLASSIFIED	4.5	432.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.5	CARBONDALE	DANVILLE	COAL	1.5	436.5	
182.0	CARBONDALE		UNCLASSIFIED	15.5	438.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
166.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0	453.5	
161.5	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	458.5	
160.0	CARBONDALE		UNCLASSIFIED	1.5	460.0	SHALE ABOVE BRERETON LIMESTONE
158.5	CARBONDALE	BRERETON	LIMESTONE	4.0	461.5	
154.5	CARBONDALE	ANNA	BLACK SHALE	1.5	465.5	
153.0	CARBONDALE	HERRIN	COAL	8.0	467.0	

MAPID: 00500636000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: COFFEEN **LONGITUDE:** -89.453899 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.013793 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 474.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
193.0	MODESTO	PIASA	LIMESTONE	5.0	427.0	
188.0	CARBONDALE		SHALE	22.0	432.0	
166.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.5	454.0	LOWER BENCH
161.5	CARBONDALE	LAWSON	SHALE	5.0	458.5	
156.5	CARBONDALE	BRERETON	LIMESTONE	4.5	463.5	
152.0	CARBONDALE	HERRIN	COAL	6.0	468.0	

MAPID: 00500770000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE

QUADRANGLE: COFFEEN **LONGITUDE:** -89.444551 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.026767 **DATE COLLECTED:** 6 / 0 / 1958

SURFACE ELEVATION (FT.): 627.0 **LOGGED (FT.):** 487.0 **LOG TYPE:** Electric Log

SOURCE: STOKER, GENE **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
188.5	MODESTO	PIASA	LIMESTONE	5.0	438.5	
183.5	MODESTO		UNCLASSIFIED	4.0	443.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
179.5	CARBONDALE	DANVILLE	COAL	1.0	447.5	
178.5	CARBONDALE		UNCLASSIFIED	19.0	448.5	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
159.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.5	467.5	
153.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	2.5	474.0	
150.5	CARBONDALE		UNCLASSIFIED	1.0	476.5	SHALE ABOVE BRERETON LIMESTONE
149.5	CARBONDALE	BRERETON	LIMESTONE	1.0	477.5	
148.5	CARBONDALE	ANNA	BLACK SHALE	1.5	478.5	
147.0	CARBONDALE	HERRIN	COAL	7.0	480.0	

MAPID: 00500003000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** SE NW SW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.470108 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.017672 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 613.3 **LOGGED (FT.):** 463.0 **LOG TYPE:**
SOURCE: W BREASTFC D **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
161.3	CARBONDALE	HERRIN	COAL	8.2	452.0	

MAPID: 00500003000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** SE NW SW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.470108 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.017672 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 613.0 **LOGGED (FT.):** 460.2 **LOG TYPE:** Drillers Log
SOURCE: WHITEBREAST FUEL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
174.3	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	438.7	
167.3	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	445.7	
165.8	CARBONDALE		UNCLASSIFIED	1.0	447.2	SHALE ABOVE BRERETON LIMESTONE
164.8	CARBONDALE	BRERETON	LIMESTONE	1.5	448.2	
163.3	CARBONDALE	ANNA	BLACK SHALE	2.3	449.7	
161.0	CARBONDALE	HERRIN	COAL	8.2	452.0	

MAPID: 00500623000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: COFFEEN **LONGITUDE:** -89.456308 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.026822 **DATE COLLECTED:** 10 / 0 / 1950

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

SOURCE: KERWIN THOMAS R **WELL TYPE:** Dry Hole

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	MODESTO	PIASA	LIMESTONE	3.5		
-	MODESTO		UNCLASSIFIED	6.0		INTERVAL ABOVE DANVILLE, BELOW PIASA
-	CARBONDALE	DANVILLE	COAL	2.0		
-	CARBONDALE		UNCLASSIFIED	18.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	5.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.3		
-	CARBONDALE		UNCLASSIFIED	3.3		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.5		
-	CARBONDALE	ANNA	BLACK SHALE	2.0		
-	CARBONDALE	HERRIN	COAL	6.0		ELEVATION OF HERRIN = 148

MAPID: 00501194000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE

QUADRANGLE: COFFEEN **LONGITUDE:** -89.460876 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.02313 **DATE COLLECTED:** 4 / 0 / 1950

SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 482.0 **LOG TYPE:** Electric Log

SOURCE: MAYOR DRLG CO **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
192.0	MODESTO	PIASA	LIMESTONE	4.0	428.0	
188.0	MODESTO		UNCLASSIFIED	8.0	432.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
180.0	CARBONDALE	DANVILLE	COAL	2.0	440.0	
178.0	CARBONDALE		UNCLASSIFIED	20.0	442.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
158.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	462.0	
150.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	470.0	
148.5	CARBONDALE		UNCLASSIFIED	1.0	471.5	SHALE ABOVE BRERETON LIMESTONE
147.5	CARBONDALE	BRERETON	LIMESTONE	1.0	472.5	
146.5	CARBONDALE	ANNA	BLACK SHALE	1.5	473.5	
145.0	CARBONDALE	HERRIN	COAL	7.0	475.0	

MAPID: 00501195000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: COFFEEN **LONGITUDE:** -89.463111 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.026827 **DATE COLLECTED:** 7 / 0 / 1951
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 464.0 **LOG TYPE:** Electric Log
SOURCE: MAYOR DRLG CO **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
162.0	CARBONDALE	HERRIN	COAL	6.0	458.0	

MAPID: 00501196000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.465446 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.02683 **DATE COLLECTED:** 12 / 0 / 1949
SURFACE ELEVATION (FT.): 617.0 **LOGGED (FT.):** 460.0 **LOG TYPE:** Electric Log
SOURCE: KERWIN THOMAS R **WELL TYPE:** Producer-Gas
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
216.0	MODESTO	PIASA	LIMESTONE	4.0	401.0	
212.0	MODESTO		UNCLASSIFIED	7.0	405.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
205.0	CARBONDALE	DANVILLE	COAL	2.0	412.0	
203.0	CARBONDALE		UNCLASSIFIED	27.0	414.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
176.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.0	441.0	
169.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	448.0	
167.5	CARBONDALE		UNCLASSIFIED	1.0	449.5	SHALE ABOVE BRERETON LIMESTONE
166.5	CARBONDALE	BRERETON	LIMESTONE	1.0	450.5	
165.5	CARBONDALE	ANNA	BLACK SHALE	1.5	451.5	
164.0	CARBONDALE	HERRIN	COAL	7.0	453.0	

MAPID: 00501198000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: COFFEEN **LONGITUDE:** -89.467704 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.019435 **DATE COLLECTED:** 7 / 0 / 1950

SURFACE ELEVATION (FT.): 621.0 **LOGGED (FT.):** 461.0 **LOG TYPE:** Electric Log

SOURCE: DERRINGTON H H **WELL TYPE:** Plugged and/or Abandoned

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
212.5	MODESTO	PIASA	LIMESTONE	5.0	408.5	
207.5	MODESTO		UNCLASSIFIED	7.0	413.5	INTERVAL ABOVE DANVILLE, BELOW PIASA
200.5	CARBONDALE	DANVILLE	COAL	1.5	420.5	
199.0	CARBONDALE		UNCLASSIFIED	19.5	422.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
179.5	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	441.5	
172.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	449.0	
171.0	CARBONDALE		UNCLASSIFIED	1.0	450.0	SHALE ABOVE BRERETON LIMESTONE
170.0	CARBONDALE	BRERETON	LIMESTONE	1.0	451.0	
169.0	CARBONDALE	ANNA	BLACK SHALE	2.0	452.0	
167.0	CARBONDALE	HERRIN	COAL	7.0	454.0	

MAPID: 00501198000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2310' S line, 1650' W line

QUADRANGLE: COFFEEN **LONGITUDE:** -89.467704 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.019435 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 621.0 **LOGGED (FT.):** 460.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
212.0	MODESTO	PIASA	LIMESTONE	3.0	409.0	
209.0	CARBONDALE		SHALE	19.0	412.0	
190.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	431.0	LOWER BENCH
185.0	CARBONDALE	LAWSON	SHALE	6.0	436.0	
179.0	CARBONDALE	JAMESTOWN	LIMESTONE	2.0	442.0	
177.0	CARBONDALE		SHALE	2.0	444.0	
175.0	CARBONDALE	BRERETON	LIMESTONE	3.5	446.0	
171.5	CARBONDALE	ANNA	SHALE	4.0	449.5	
167.0	CARBONDALE	HERRIN	COAL	6.0	454.0	

MAPID: 00590011000C **VERSION:** 1 **PROJECT:** ISGS97

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 30 **QUARTERS/FOOTAGES:** 2640' S line, 2640' W line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.464186 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 39.020293 **DATE COLLECTED:** 11 / 16 / 1914
SURFACE ELEVATION (FT.): 623.0 **LOGGED (FT.):** 452.0 **LOG TYPE:** Company map
SOURCE: PEABODY COAL CO. B **WELL TYPE:** Coal Test
COMMENT: MAP 15-K-2

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
623.0			UNKNOWN	444.5	0.0	
178.5	CARBONDALE	HERRIN	COAL	7.5	444.5	

MAPID: 00500228000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 143' N line, 28' E line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.455159 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.012474 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 480.3 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 1 **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
176.0	MODESTO	PIASA	LIMESTONE	3.5	444.0	
172.5	CARBONDALE		DARK GRAY SHALE	12.0	447.5	
160.5	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	459.5	UPPER BENCH
155.5	CARBONDALE	BANKSTON FORK	GRAY SHALE	3.0	464.5	SHALE PARTING
152.5	CARBONDALE	BANKSTON FORK	LIMESTONE	6.4	467.5	LOWER BENCH
146.0	CARBONDALE	HERRIN	COAL	6.3	474.0	

MAPID: 00500228000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 31 **QUARTERS/FOOTAGES:** 143' N line, 28' E line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.455159 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.012474 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 480.3 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 1 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
190.0	MODESTO	PIASA	LIMESTONE	5.0	430.0	
185.0	MODESTO		UNCLASSIFIED	4.5	435.0	
180.5	CARBONDALE		UNCLASSIFIED	16.0	439.5	
164.5	CARBONDALE	BANKSTON FORK	LIMESTONE	9.0	455.5	
155.5	CARBONDALE	ANVIL ROCK	SANDSTONE	1.5	464.5	
154.0	CARBONDALE		SHALE	1.5	466.0	
152.5	CARBONDALE	BRERETON	LIMESTONE	5.7	467.5	
146.8	CARBONDALE	ANNA	BLACK SHALE	0.8	473.2	
146.0	CARBONDALE	HERRIN	COAL	6.3	474.0	

MAPID: 00500229000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 2618' N line, 30' E line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.436259 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.005864 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 617.0 **LOGGED (FT.):** 498.0 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 2 **WELL TYPE:** Coal Test
COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
165.0	MODESTO	PIASA	LIMESTONE	1.3	452.0	
163.7	MODESTO		SHALE	10.7	453.3	
153.0	CARBONDALE		GRAY SHALE	2.0	464.0	
151.0	CARBONDALE		GRAY SHALE	12.3	466.0	
138.7	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	478.3	UPPER BENCH
137.7	CARBONDALE	BANKSTON FORK	SHALE	2.4	479.3	SHALE PARTING
135.3	CARBONDALE	BANKSTON FORK	LIMESTONE	4.3	481.7	LOWER BENCH
131.1	CARBONDALE	LAWSON	CALCAREOUS SHALE	3.9	485.9	
127.2	CARBONDALE	ANNA	BLACK SHALE	1.7	489.8	
126.0	CARBONDALE	HERRIN	COAL	7.0	491.0	

MAPID: 00500229000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 32 **QUARTERS/FOOTAGES:** 2618' N line, 30' E line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.436259 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.005864 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 617.0 **LOGGED (FT.):** 498.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 2 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
165.5	MODESTO	PIASA	LIMESTONE	1.3	451.5	
164.2	MODESTO		UNCLASSIFIED	4.5	452.8	
159.7	CARBONDALE		UNCLASSIFIED	16.2	457.3	
143.5	CARBONDALE	BANKSTON FORK	LIMESTONE	9.5	473.5	
134.0	CARBONDALE	ANVIL ROCK	SANDSTONE	2.4	483.0	
131.6	CARBONDALE		SHALE	1.9	485.4	
129.7	CARBONDALE	BRERETON	LIMESTONE	2.0	487.3	
127.7	CARBONDALE	ANNA	BLACK SHALE	1.7	489.3	
126.0	CARBONDALE	HERRIN	COAL	7.0	491.0	

MAPID: 00500696000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 35 **QUARTERS/FOOTAGES:** 990' S line, 330' W line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.397475 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.001281 **DATE COLLECTED:** 7 / 0 / 1957
SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 432.5 **LOG TYPE:** Electric Log
SOURCE: RICHARDSON, M. H. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
148.1	MODESTO	PIASA	LIMESTONE	4.0	387.9	
144.1	MODESTO		UNCLASSIFIED	5.0	391.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
139.1	CARBONDALE	DANVILLE	COAL	1.5	396.9	
137.6	CARBONDALE		UNCLASSIFIED	10.5	398.4	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
127.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	408.9	
118.1	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.3	417.9	
116.8	CARBONDALE		UNCLASSIFIED	1.3	419.2	SHALE ABOVE BRERETON LIMESTONE
115.5	CARBONDALE	BRERETON	LIMESTONE	1.5	420.5	
114.0	CARBONDALE	ANNA	BLACK SHALE	4.0	422.0	
110.0	CARBONDALE	HERRIN	COAL	6.5	426.0	

MAPID: 00500696000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 35 **QUARTERS/FOOTAGES:** 990' S line, 330' W line

QUADRANGLE: COFFEEN **LONGITUDE:** -89.397475 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.001281 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 432.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
146.0	MODESTO	PIASA	LIMESTONE	2.0	390.0	
144.0	CARBONDALE		SHALE	30.0	392.0	
114.0	CARBONDALE	LAWSON	SHALE	5.0	422.0	
109.0	CARBONDALE	HERRIN	COAL	5.0	427.0	

MAPID: 00501462000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 3W **SECTION:** 36 **QUARTERS/FOOTAGES:** 180' N line, 80' E line of NW SE NW

QUADRANGLE: FILLMORE **LONGITUDE:** -89.373488 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.009034 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 503.4 **LOG TYPE:** Drillers Log

SOURCE: TRUAX-TRAER COAL CO. 241BB **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
110.2	CARBONDALE		UNCLASSIFIED	2.0	478.8	
108.2	CARBONDALE	BANKSTON FORK	LIMESTONE	8.6	480.8	
99.6	CARBONDALE	ANVIL ROCK	SANDSTONE	1.6	489.4	
98.0	CARBONDALE		SHALE	1.0	491.0	
97.0	CARBONDALE	ANNA	BLACK SHALE	4.0	492.0	
93.0	CARBONDALE	HERRIN	COAL	7.4	496.0	

MAPID: 00500005000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW SW SW

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.510227 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 39.016659 **DATE COLLECTED:** 7 / 0 / 1904

SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 395.2 **LOG TYPE:** Drillers Log

SOURCE: LUMAGHI COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
570.0			UNCONSOLIDATED	90.5	0.0	
479.5			ROCK	46.5	90.5	
433.0			COAL	2.5	137.0	
430.5			ROCK	96.5	139.5	
334.0			COAL	2.0	236.0	
332.0			ROCK	120.0	238.0	
212.0			SHALE	13.0	358.0	
199.0			LIMESTONE	10.0	371.0	
189.0			SHALE	4.0	381.0	
185.0			BLACK SHALE	2.0	385.0	
183.0	CARBONDALE	HERRIN	COAL	7.8	387.0	
175.2			ROCK	0.4	394.8	

MAPID: 00500005000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW SW SW

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.510227 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 39.016659 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 394.8 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
251.0	MODESTO	PIASA	LIMESTONE & SHALE	4.0	342.0	
247.0	MODESTO		SHALE	12.0	346.0	
235.0	CARBONDALE		GRAY SHALE	13.0	358.0	
222.0	CARBONDALE	BANKSTON FORK	LIMESTONE	10.0	371.0	LOWER BENCH
212.0	CARBONDALE	LAWSON	GRAY SHALE	4.0	381.0	
208.0	CARBONDALE	ANNA	BLACK SHALE	2.0	385.0	
206.0	CARBONDALE	HERRIN	COAL	7.8	387.0	

MAPID: 00500005000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW SW SW
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.510227 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.016659 **DATE COLLECTED:** 7 / 0 / 1904
SURFACE ELEVATION (FT.): 594.0 **LOGGED (FT.):** 395.8 **LOG TYPE:** Drillers Log
SOURCE: WHITEBREAST FUEL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
251.0	MODESTO	PIASA	LIMESTONE	4.0	343.0	
247.0	MODESTO		UNCLASSIFIED	6.0	347.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
241.0	CARBONDALE		UNCLASSIFIED	19.0	353.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
222.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	10.0	372.0	
212.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	382.0	
210.5	CARBONDALE		UNCLASSIFIED	1.0	383.5	SHALE ABOVE BRERETON LIMESTONE
209.5	CARBONDALE	BRERETON	LIMESTONE	1.5	384.5	
208.0	CARBONDALE	ANNA	BLACK SHALE	2.0	386.0	
206.0	CARBONDALE	HERRIN	COAL	7.8	388.0	

MAPID: 00500005000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW SW SW
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.510227 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.016659 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 593.3 **LOGGED (FT.):** 395.0 **LOG TYPE:**
SOURCE: W BREASTFC K **WELL TYPE:** Coal Test
COMMENT: SURFACE ELEVATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
206.3	CARBONDALE	HERRIN	COAL	7.8	387.0	

MAPID: 00500154000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 1900' S line, 1190' W line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.506558 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.018656 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 593.1 **LOGGED (FT.):** 605.0 **LOG TYPE:**
SOURCE: SMITH **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
188.1	CARBONDALE	HERRIN	COAL	5.0	405.0	

MAPID: 00500154000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 1900' S line, 1190' W line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.506558 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.018656 **DATE COLLECTED:** 7 / 0 / 1940
SURFACE ELEVATION (FT.): 594.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Electric Log
SOURCE: SCHARF, THOMAS, ETAL **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	8.0	389.0	
197.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	397.0	
196.0	CARBONDALE		UNCLASSIFIED	1.0	398.0	SHALE ABOVE BRERETON LIMESTONE
195.0	CARBONDALE	BRERETON	LIMESTONE	1.0	399.0	
194.0	CARBONDALE	ANNA	BLACK SHALE	1.0	400.0	
193.0	CARBONDALE	HERRIN	COAL	7.0	401.0	

MAPID: 00500532000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 380' W line of NE
QUADRANGLE: COFFEEN **LONGITUDE:** -89.5 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.027004 **DATE COLLECTED:** 1 / 0 / 1957
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 435.0 **LOG TYPE:** Electric Log
SOURCE: BRYSON, CHARLES G. **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
180.0	CARBONDALE	BRERETON	LIMESTONE	3.0	425.0	
177.0	CARBONDALE	ANNA	BLACK SHALE	2.0	428.0	
175.0	CARBONDALE	HERRIN	COAL	5.0	430.0	

MAPID: 00500140000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.518989 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.016294 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 585.7 **LOGGED (FT.):** 2016.0 **LOG TYPE:**
SOURCE: LEE W N **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
204.7	CARBONDALE	HERRIN	COAL	8.0	381.0	

MAPID: 00500140000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.518989 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.016294 **DATE COLLECTED:** 0 / 0 / 1939
SURFACE ELEVATION (FT.): 586.0 **LOGGED (FT.):** 389.0 **LOG TYPE:** Drillers Log
SOURCE: LEE, W. N., ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
205.0	CARBONDALE	HERRIN	COAL	8.0	381.0	

MAPID: 00500234000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.514286 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.01807 **DATE COLLECTED:** 4 / 0 / 1943
SURFACE ELEVATION (FT.): 602.0 **LOGGED (FT.):** 403.0 **LOG TYPE:** Electric Log
SOURCE: BRISCOE, GLENN ETAL **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
209.0	CARBONDALE	HERRIN	COAL	10.0	393.0	

MAPID: 00500236000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 600' S line, 695' E line of NW SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.5179 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.01885 **DATE COLLECTED:** 9 / 0 / 1940
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 400.0 **LOG TYPE:** Electric Log
SOURCE: SCHARF, THOMAS, ETAL **WELL TYPE:** Producer-Gas
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
187.0	CARBONDALE	HERRIN	COAL	7.0	393.0	

MAPID: 00500237000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 150' E line of SW
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.520719 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.014488 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Electric Log
SOURCE: SMITH, ROBT. F., ETAL **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
197.0	CARBONDALE	HERRIN	COAL	3.0	347.0	

MAPID: 00500238000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE SW

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.521324 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.016318 **DATE COLLECTED:** 10 / 0 / 1945

SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 397.0 **LOG TYPE:** Electric Log

SOURCE: SMITH, ROBT. F., ETAL **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.0	CARBONDALE	HERRIN	COAL	8.0	389.0	

MAPID: 005201D0002F **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NE NE NW

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.539449 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 39.027834 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 26.8 **LOG TYPE:** Measured section

SOURCE: FLD NOTES-J. N. PAYNE **WELL TYPE:** Outcrop

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
510.0			LIMESTONE	0.8	0.0	
509.2			SHALE	0.3	0.8	CALCAREOUS
508.9			SHALE	3.0	1.1	SMOOTH; 2'-3' THICK
505.9			LIMESTONE	14.0	4.1	12'-14' THICK
491.9			SHALE	0.5	18.1	CALCAREOUS
491.4			BLACK SHALE	2.5	18.6	
488.9			SHALE	2.0	21.1	
486.9			COAL	1.8	23.1	DIRTY
485.2			UNDERCLAY	2.0	24.8	

MAPID: 00500139000C **VERSION:** 1 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1295' N line, 636' E line

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.550649 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 39.024774 **DATE COLLECTED:** 0 / 0 / 1940

SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 1965.0 **LOG TYPE:**

SOURCE: HARR PAUL **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
244.0	CARBONDALE	HERRIN	COAL	7.0	349.0	

MAPID: 00500139000C **VERSION:** 2 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1295' N line, 636' E line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.550649 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.024774 **DATE COLLECTED:** 0 / 0 / 1940
SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 359.0 **LOG TYPE:** Electric Log
SOURCE: HARR PAUL W **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
244.0	CARBONDALE	HERRIN	COAL	10.0	349.0	

MAPID: 00501541000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2594' S line, 2562' E line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.557491 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.021024 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 586.0 **LOGGED (FT.):** 354.6 **LOG TYPE:** Survey Core Study
SOURCE: CONSOLIDATION C.C. 248-BB **WELL TYPE:** Coal Test
COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
283.0	MODESTO	PIASA	LIMESTONE	6.0	303.0	
277.0	MODESTO		SHALE	13.3	309.0	
263.7	CARBONDALE	DANVILLE	CARBONACEOUS SHALE	0.9	322.3	
262.8	CARBONDALE		CLAYSTONE	8.6	323.2	
254.2	CARBONDALE	GALUM	LIMESTONE/SILTSTONE	5.0	331.8	
249.2	CARBONDALE		CLAYSTONE	0.5	336.8	
248.7	CARBONDALE	BANKSTON FORK	NODULAR LIMESTONE	2.6	337.3	LOWER BENCH
246.1	CARBONDALE	LAWSON	MOTTLED SHALE	2.3	339.9	
243.8	CARBONDALE	CONANT	LIMESTONE	0.1	342.2	
243.7	CARBONDALE	JAMESTOWN	CARBONACEOUS SHALE	0.4	342.3	
243.3	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	1.0	342.7	
242.3	CARBONDALE	ANNA	BLACK SHALE	2.7	343.7	
239.0	CARBONDALE	HERRIN	COAL	7.6	347.0	

MAPID: 005201D0003F **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 29 **QUARTERS/FOOTAGES:** SW NW
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.564991 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.022886 **DATE COLLECTED:** 0 / 0 / 1960
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 31.2 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-KOSANKE ETAL **WELL TYPE:** Outcrop
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
540.0			ROCK	19.9	0.0	
520.1	MODESTO	NEW HAVEN	COAL	1.3	19.9	.08' - 1.29' THICK
518.8			ROCK	10.0	21.2	

MAPID: 00500007000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 4700' N line, 1100' E line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.571343 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.00093 **DATE COLLECTED:** 0 / 0 / 1900
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 391.0 **LOG TYPE:** Drillers Log
SOURCE: SORENTO COAL CO. **WELL TYPE:** Mine Shaft
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
222.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	9.0	363.0	
213.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0	372.0	
210.0	CARBONDALE		UNCLASSIFIED	3.0	375.0	SHALE ABOVE BRERETON LIMESTONE
207.0	CARBONDALE	BRERETON	LIMESTONE	3.0	378.0	
204.0	CARBONDALE	ANNA	BLACK SHALE	3.0	381.0	
201.0	CARBONDALE	HERRIN	COAL	7.0	384.0	

MAPID: 00500007000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 4700' N line, 1100' E line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.571343 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.00093 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 391.0 **LOG TYPE:** Drillers Log
SOURCE: SORENTO COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
585.0			UNCONSOLIDATED	45.0	0.0	
540.0			ROCK	82.0	45.0	
458.0			COAL	1.0	127.0	
457.0			ROCK	208.0	128.0	
249.0			SHALE	27.0	336.0	
222.0			LIMESTONE	9.0	363.0	
213.0			UNDERCLAY	6.0	372.0	
207.0			BLACK SHALE	6.0	378.0	
201.0	CARBONDALE	HERRIN	COAL	7.0	384.0	

MAPID: 00500007000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 4700' N line, 1100' E line
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.571343 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.00093 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 584.7 **LOGGED (FT.):** 391.0 **LOG TYPE:**
SOURCE: SORENTO COAL CO. **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
200.7	CARBONDALE	HERRIN	COAL	7.0	384.0	

MAPID: 00500200501M **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** NW SW SE SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.57153 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.000675 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 7.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-NO. ILL. COAL & SUPPLY **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
585.0			UNKNOWN	384.0	0.0	
201.0	CARBONDALE	HERRIN	COAL	7.0	384.0	

MAPID: 00500239000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 660' W line of SW NE

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.574423 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.009362 **DATE COLLECTED:** 3 / 0 / 1942

SURFACE ELEVATION (FT.): 576.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Electric Log

SOURCE: GEORGE & DOWNING **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
232.0	CARBONDALE	HERRIN	COAL	6.0	344.0	

MAPID: 00500008000C **VERSION:** 1 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** SE NE SE

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.549781 **GEOLOGIST:** TREWORGY,J

CONFIDENTIAL: N **LATITUDE:** 39.003801 **DATE COLLECTED:** 7 / 0 / 1903

SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 414.0 **LOG TYPE:** Drillers Log

SOURCE: LUMAGHI COAL CO. **WELL TYPE:** Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
588.0			UNCONSOLIDATED	61.0	0.0	
527.0			ROCK	166.0	61.0	
361.0			SHALE	30.0	227.0	
331.0			BLACK SHALE	3.7	257.0	
327.3			COAL	7.3	260.7	
320.0			ROCK	90.0	268.0	
230.0			COAL	1.5	358.0	
228.5			ROCK	22.0	359.5	
206.5			UNDERCLAY	2.8	381.5	
203.7			SHALE	5.5	384.3	
198.2			LIMESTONE	6.3	389.8	
192.0			SHALE	3.0	396.0	
189.0			LIMESTONE	5.5	399.0	
183.5			SHALE	0.7	404.5	
182.8			BLACK SHALE	0.5	405.2	
182.3	CARBONDALE	HERRIN	COAL	7.0	405.7	
175.3			ROCK	1.3	412.7	

MAPID: 00500008000C **VERSION:** 2 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.549781 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.003801 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
212.0	MODESTO	PIASA	LIMESTONE	0.5	376.0	
211.5	MODESTO		GRAY SHALE	5.0	376.5	
206.5	CARBONDALE		CLAYSTONE	2.8	381.5	
203.7	CARBONDALE		DARK GRAY SHALE	5.5	384.3	
198.2	CARBONDALE	BANKSTON FORK	LIMESTONE	6.3	389.8	LOWER BENCH
192.0	CARBONDALE	LAWSON	SHALE	3.0	396.0	
189.0	CARBONDALE	BRERETON	LIMESTONE	5.5	399.0	
183.5	CARBONDALE	ANNA	BLACK SHALE	1.2	404.5	
182.0	CARBONDALE	HERRIN	COAL	7.0	406.0	

MAPID: 00500008000C **VERSION:** 3 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.549781 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.003801 **DATE COLLECTED:** 7 / 0 / 1903
SURFACE ELEVATION (FT.): 588.0 **LOGGED (FT.):** 413.0 **LOG TYPE:** Drillers Log
SOURCE: LUMAGHI COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
211.8	CARBONDALE		UNCLASSIFIED	13.8	376.2	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
198.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.3	390.0	
191.7	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	396.3	
190.2	CARBONDALE		UNCLASSIFIED	1.5	397.8	SHALE ABOVE BRERETON LIMESTONE
188.7	CARBONDALE	BRERETON	LIMESTONE	5.5	399.3	
183.2	CARBONDALE	ANNA	BLACK SHALE	1.2	404.8	
182.0	CARBONDALE	HERRIN	COAL	7.0	406.0	

MAPID: 00500008000C **VERSION:** 4 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** SE NE SE

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.549781 **GEOLOGIST:** J.N. PAYNE

CONFIDENTIAL: N **LATITUDE:** 39.003801 **DATE COLLECTED:** 0 / 0 / 1903

SURFACE ELEVATION (FT.): 587.9 **LOGGED (FT.):** 405.0 **LOG TYPE:**

SOURCE: LUMAGHI COAL CO. **WELL TYPE:** Coal Test

COMMENT: EXACT LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
189.9	CARBONDALE	HERRIN	COAL	7.0	398.0	

MAPID: 00500635000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.55448 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.003815 **DATE COLLECTED:** 7 / 0 / 1951

SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 410.0 **LOG TYPE:** Electric Log

SOURCE: BOLING-LEVINE-YABROV **WELL TYPE:** Dry Hole

COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
221.0	MODESTO	PIASA	LIMESTONE	4.0	362.0	
217.0	MODESTO		UNCLASSIFIED	2.0	366.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
215.0	CARBONDALE	DANVILLE	COAL	1.0	368.0	
214.0	CARBONDALE		UNCLASSIFIED	19.0	369.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
195.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	388.0	
189.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.0	394.0	
188.0	CARBONDALE		UNCLASSIFIED	1.0	395.0	SHALE ABOVE BRERETON LIMESTONE
187.0	CARBONDALE	BRERETON	LIMESTONE	5.0	396.0	
182.0	CARBONDALE	ANNA	BLACK SHALE	3.0	401.0	
179.0	CARBONDALE	HERRIN	COAL	6.0	404.0	

MAPID: 00501542000C **VERSION:** 1 **PROJECT:** ROOF STUDY

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 33 **QUARTERS/FOOTAGES:** 32' S line, 2226' W line

QUADRANGLE: SORENTO SOUTH **LONGITUDE:** -89.540784 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.999263 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 573.0 **LOGGED (FT.):** 427.6 **LOG TYPE:** Survey Core Study

SOURCE: CONSOLIDATION C.C. 246-BB **WELL TYPE:** Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
195.3	MODESTO	PIASA	LIMESTONE/UNDERCLAY	3.1	377.7	
192.2	MODESTO		SHALE	16.1	380.8	
176.1	CARBONDALE		CLAYSTONE	0.9	396.9	
175.2	CARBONDALE	GALUM	NODULAR LIMESTONE	1.8	397.8	
173.4	CARBONDALE		GRAY SHALE	4.8	399.6	
168.6	CARBONDALE	BANKSTON FORK	LIMESTONE/UNDERCLAY	7.5	404.4	LOWER BENCH
161.1	CARBONDALE	LAWSON	MOTTLED SHALE	2.8	411.9	
158.3	CARBONDALE	CONANT	LIMESTONE/UNDERCLAY	1.0	414.7	
157.3	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	5.1	415.7	
152.2	CARBONDALE	ANNA	BLACK SHALE	0.2	420.8	
152.0	CARBONDALE	HERRIN	COAL	6.6	421.0	

MAPID: 00500009000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NW SE NW

QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.505672 **GEOLOGIST:** D. JOHNSON

CONFIDENTIAL: N **LATITUDE:** 39.009302 **DATE COLLECTED:** 8 / 0 / 1903

SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log

SOURCE: CRAWFORD A W **WELL TYPE:** Coal Test

COMMENT: NO DEPTH VALUES AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE		UNCLASSIFIED	9.0		INTERVAL ABOVE BANKSTON, BELOW DANVILLE
-	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0		
-	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.0		
-	CARBONDALE	CONANT	UNCLASSIFIED	2.0		
-	CARBONDALE		UNCLASSIFIED	3.0		SHALE ABOVE BRERETON LIMESTONE
-	CARBONDALE	BRERETON	LIMESTONE	3.0		
-	CARBONDALE	ANNA	BLACK SHALE	3.0		

MAPID: 00500009000C **VERSION:** 2 **PROJECT:** BLM

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NW SE NW
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.505672 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.009302 **DATE COLLECTED:** 8 / 0 / 1903
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 486.0 **LOG TYPE:** Drillers Log
SOURCE: LUMAGHI COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
595.0			UNCONSOLIDATED	109.0	0.0	
486.0			ROCK	127.5	109.0	
358.5			COAL	0.5	236.5	
358.0			LIMESTONE	5.0	237.0	
353.0			SHALE	8.0	242.0	
345.0			LIMESTONE	3.0	250.0	
342.0			COAL	3.0	253.0	
339.0			ROCK	170.0	256.0	HERRIN MISSING

MAPID: 00500009000C **VERSION:** 3 **PROJECT:** CIRC 71

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NW SE NW
QUADRANGLE: SORENTO NORTH **LONGITUDE:** -89.505672 **GEOLOGIST:** J.N. PAYNE
CONFIDENTIAL: N **LATITUDE:** 39.009302 **DATE COLLECTED:** 0 / 0 / 1903
SURFACE ELEVATION (FT.): 594.5 **LOGGED (FT.):** 486.0 **LOG TYPE:**
SOURCE: LUMAGHI COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	UNCLASSIFIED	0.0		

MAPID: 00500240000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE SW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.486417 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.005 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 446.0 **LOG TYPE:** Electric Log
SOURCE: NO COMPANY **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
165.0	CARBONDALE	HERRIN	COAL	6.0	440.0	

MAPID: 00500241000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.484096 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.004986 **DATE COLLECTED:** 3 / 0 / 1941
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 444.0 **LOG TYPE:** Electric Log
SOURCE: WOODRUFF S G **WELL TYPE:** Plugged and/or Abandoned
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
165.0	CARBONDALE	HERRIN	COAL	4.0	440.0	

MAPID: 00500242000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 550' N line, 660' E line of SE NW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.485259 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.008032 **DATE COLLECTED:** 5 / 0 / 1941
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 445.0 **LOG TYPE:** Electric Log
SOURCE: REGENT OIL CORP **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
160.0	CARBONDALE	HERRIN	COAL	5.0	440.0	

MAPID: 00500475000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 2310' N line, 1650' W line of SW
QUADRANGLE: GREENVILLE **LONGITUDE:** -89.486386 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 38.999534 **DATE COLLECTED:** 7 / 0 / 1956
SURFACE ELEVATION (FT.): 597.0 **LOGGED (FT.):** 453.0 **LOG TYPE:** Electric Log
SOURCE: MISKELL J H **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
192.1	MODESTO	PIASA	LIMESTONE	3.0	404.9	
189.1	MODESTO		UNCLASSIFIED	5.5	407.9	INTERVAL ABOVE DANVILLE, BELOW PIASA
183.6	CARBONDALE	DANVILLE	COAL	1.5	413.4	
182.1	CARBONDALE		UNCLASSIFIED	13.0	414.9	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
169.1	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	7.5	427.9	
161.6	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	3.2	435.4	
158.4	CARBONDALE		UNCLASSIFIED	3.1	438.6	SHALE ABOVE BRERETON LIMESTONE
155.3	CARBONDALE	BRERETON	LIMESTONE	3.1	441.7	
152.2	CARBONDALE	ANNA	BLACK SHALE	3.2	444.8	
149.0	CARBONDALE	HERRIN	COAL	5.0	448.0	

MAPID: 00500880000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: COFFEEN **LONGITUDE:** -89.491026 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.012309 **DATE COLLECTED:** 5 / 0 / 1960
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 442.5 **LOG TYPE:** Electric Log
SOURCE: FARRAR DRILLING CO **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
206.0	MODESTO	PIASA	LIMESTONE	5.0	394.0	
201.0	MODESTO		UNCLASSIFIED	6.0	399.0	INTERVAL ABOVE DANVILLE, BELOW PIASA
195.0	CARBONDALE	DANVILLE	COAL	1.0	405.0	
194.0	CARBONDALE		UNCLASSIFIED	19.0	406.0	INTERVAL ABOVE BANKSTON, BELOW DANVILLE
175.0	CARBONDALE	BANKSTON FORK	UNCLASSIFIED	6.0	425.0	
169.0	CARBONDALE	ANVIL ROCK	UNCLASSIFIED	1.5	431.0	
167.5	CARBONDALE		UNCLASSIFIED	1.0	432.5	SHALE ABOVE BRERETON LIMESTONE
166.5	CARBONDALE	BRERETON	LIMESTONE	1.0	433.5	
165.5	CARBONDALE	ANNA	BLACK SHALE	1.5	434.5	
164.0	CARBONDALE	HERRIN	COAL	6.5	436.0	

MAPID: 00500919000C **VERSION:** 1 **PROJECT:** D JOHNSON

COUNTY: BOND **TWP/RNG:** 7N 4W **SECTION:** 36 **QUARTERS/FOOTAGES:** 990' N line, 750' E line of SW
QUADRANGLE: COFFEEN **LONGITUDE:** -89.485582 **GEOLOGIST:** D. JOHNSON
CONFIDENTIAL: N **LATITUDE:** 39.003173 **DATE COLLECTED:** 7 / 0 / 1961
SURFACE ELEVATION (FT.): 599.0 **LOGGED (FT.):** 432.0 **LOG TYPE:** Electric Log
SOURCE: KESL JOE JR ETAL **WELL TYPE:** Dry Hole
COMMENT: LOG TYPE UNCERTAIN, PROBABLY AN E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
172.0	CARBONDALE	HERRIN	COAL	5.0	427.0	