

35-5s-16E

**Professional Energy Services**

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**GEOLOGICAL REPORT**

Operator: **EVERGREEN OPERATING CORPORATION**

Project: Whiting Well Name: Schrader-Massier 22-35

Location: C SE NW 2045'FNL & 1945'FEL

Sec. 35-5S-16E County: Jackson State: Kansas

All measurements GL: 1092' API: 15-085-20069-00-00

Company: Sr. Operations Engineer: Mr. Tom Erwin

Company: Geologist: Mr. Paul Clarke

Professional Energy Services: Geologist: Rich Robba

Crown: Drilling Superintendent: Fred O'Doan

Patterson Logging: Engineer: Roger Taylor

Drilling Contractor: Layne Christensen Company

Geosearch Logging: Mudloggers: Kevin Clark/ Nathan Barnes

Commenced: 02/11/04 Completed: 02/15/04

This geological report is prepared for **EVERGREEN OPERATING CORPORATION**. Wellsite geological supervision was conducted from surface to Total Depth. The Schrader-Massier 22-35 well was air drilled to the BKC, water drilled with PDC to above the Mississippian formation and rat holed with a Tricone. ROP, gas curves and sample descriptions from the chips are recorded on the mud log and geophysical survey formation tops and coal intersections are listed below.

Schrader-Massier 22-35

This well did not have excessive washouts. The geophysical survey offers good correlative data for the coals with a western Mississippian positive structure being very similar to the easterly Liggatt 42-35, both without Riverton coal development. The saddle Mississippian feature from the Liggatt 33-35 and 44-35 had Riverton coal and coal shale development.

Formation E-Log Tops

Heebner Shale:	720'	Excello:	1473'
Lansing:	927'	VShale:	1566'
Stark Shale:	1201'	Tebo Shale:	1658'
B/Kansas City:	1256'	Base Penn:	2125'
Altamount:	1357'	Mississippi:	2141'
Summit:	1453'	RTD:	2270'
		LTD:	2269'

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Coal and Coal Shale Intersections E-Log

Net Coals(ft) < 1.75 g.cc		Net Coals(ft) >1.75g.cc< 2.00 g.cc		Net Carbonaceous Shale (ft)	
Name	Depth	Name	Depth	Name	Depth
Mulberry	1377-1378.1	Mineral	1611.6-1612.3	Oswego	1426.3-1427.4
Bevier	1541.8-1543	Tebo	1659.2-1660	Weir D	1720.8-1722.1
Flemming	1604.4-1606	Weir B	1685.4-1986.3	Blue Jacket A	1789-1790
Drywood	1944.8-1946.8	Weir C	1704.1-1705.7		
Neutral A	2010.4-2011.9				
Neutral C	2019-2020.8				
Neutral C1	2022-2023				
Neutral E	2046-2047.3				

Cumulative Net Thickness Density E-Log

Net Coals (ft) < 1.75 g.cc	Net Coals (ft)>1.75g.cc < 2.00 g.cc	Net Carbonaceous Shale (ft)
11.5'	4.0'	3.4'

Conventional Oil and Gas Shows

No shows recorded.

Respectfully submitted,

Richard A. Robba, PG  
 Director of Operations  
 Professional Energy Services

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