

**MAP EXPLORATION, INC.**

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**GEOLOGICAL REPORT
EINSEL 14-11
C NE SW SECTION 14 - T33S - R17W
COMANCHE COUNTY, KANSAS**

SUMMARY

The above captioned well was drilled to a total depth of 5,250 feet on April 25, 2009. A one-man logging unit was on location from approximately 3,800 feet to TD. The well was under the geological supervision of the undersigned from 4,600 feet to TD. At TD, Weatherford electric logs were run that consisted of Dual Induction, Compensated Neutron-Density and Micro-log. After electric logs were run, a drill stem test was performed on the Upper Mississippian. From the data collected while drilling and analyzing it was determined the Einsel 14-11 was a dry hole. A decision was made to plug and abandoned the well.

FORT SCOTT LIMESTONE

The Fort Scott Limestone was cut at 5,009 (-3,101) feet. Samples were described as white, cream, tan, light grey, very fine to fine inter-crystalline, moderately hard to hard, slightly argillaceous limestone with a trace of free pyrite. No visible fluorescence, stain, cut, or odor was observed. There was a slight drilling break of 5 feet with the gas chromatograph indicating a possible show gas show of 130 units. The electric logs indicated a 4 feet zone with some permeability however the cross-plotting porosity had an average of only 3 to 4 %

MISSISSIPPIAN "CAPROCK"

The top of the Mississippian "caprock" was encountered at 5,080 (-3,172) feet. The samples were described as cream, tan, off white, very fine to fine inter-crystalline, dense, brittle, and moderately hard to hard limestone with trace of scattered milky white chert. Some inter-crystalline porosity as well as a trace of yellow fluorescence was seen but no visual stain, cut, or odor was observed. The gas chromatograph recorded a show of 99 units. The electric logs indicated an average cross-plotting porosity of 3% with very little to no permeability. For further evaluation of this interval a decision was made to run a drill stem test from 5,084 to 5,115 feet. The results were as follows:

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Open 30" closed 60" open 30" closed 90"

Recovered: 25' drilling mud

Flow pressure: 22-25/29-38

Shut-in pressure: 236/491

WARSAW DOLOMITE

The Warsaw Dolomite was encountered at 5,110 (-3,202) feet. Samples were described as white, off white, light grey, tan, slightly glauconitic, very fine to fine inter-crystalline, fossiliferous, limy dolomite with scattered cherty dolomite. Some pin-point porosity and a trace of inter-crystalline porosity could be seen. A trace of bright yellow fluorescence, very slow streaming cut and very weak odor were also observed. There were two drilling breaks recorded with the gas chromatograph not recording any significant kicks. There were 3 porosity intervals on the electric logs, the upper interval (5,110-5,118') recorded 24%. The second interval (5,132-5,135') recorded 23% with the lowest (5,150-5,160) recording 27%. The micro log indicated good permeability. However, all of the zones calculated wet on the induction log.

ELECTRIC LOG TOPS

	REDLAND EINSEL 14-11 C NE SW 14-T33S-R17W	GRIGGS OIL EINSEL 1 C NW SE 14-T33S-R17W	REDLAND RODNEY 13-5 C SW NW 13-T33S- R17W
CHASE (Subsca)	2404 (-496)	2405 (-495)	2387 (-493)
TOP PENN (Subsca)	3300 (-1392)	3297 (-1387)	3275 (-1381)
BS. HEEBNER (Subsca)	4192 (-2284)	4192 (-2282)	4176 (-2278)
STARK SH. (Subsca)	4724 (-2816)	4722 (-2812)	4697 (-2803)
CHEROKEE SH. (Subsca)	5016 (-3108)	5016 (-3106)	4986 (-3092)
MISS. UNCON. (Subsca)	5080 (-3172)	5077 (-3167)	5046 (-3152)
BS. WARSAW (Subsca)	5150 (-3242)	5146 (-3236)	5102 (-3208)

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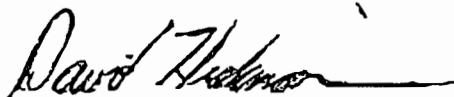
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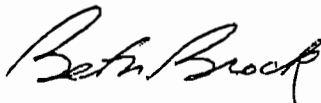
CONCLUSION

The Einsel 14-11 was drilled as a continued developmental well of the Warsaw Dolomite and the Mississippian "caprock", with the possibility of hydrocarbons in Fort Scott Limestone. After all data was analyzed it was determined that all three zones were not commercially productive. A decision was made to plug and abandoned the well as a dry hole.

Respectfully submitted,



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Well Site Geologist
4/17/09



Beth Brock
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4/17/09

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