

11-35-16W  
Redland Resources, Inc.

15-033-21489

**GEOLOGICAL REPORT  
MARION 11-11  
SW/4 SECTION 11 – T35S – R16W  
COMANCHE COUNTY, KANSAS**

**SUMMARY**

C Sw  
1320 FSL 1320 FWL

The above captioned well was drilled to a total depth of 5,600 feet on January 16, 2007. A one-man logging unit was on location from approximately 2,500 feet to TD recording gas, with one-man-logging beginning at 3,800 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,950 to TD. At TD, Precision electric logs were run that consisted of Dual Induction, Compensated Neutron-Density and Micro-Resistivity. From the data collected while drilling and analyzing, potential hydrocarbon shows were encountered in the Mississippian "Detrital" and Dolomite zones. The decision was made to set production casing and complete the well in the Mississippian zones.

**HERTHA LIMESTONE**

The Basal Kansas City aged Hertha was topped at 5,034 (-3177) feet. There was no gas kick recorded from the gas chromatograph due to a computer problem. A four-foot drilling break was encountered. Samples were described as off-white to cream oolmoldic limestone with some intercrystalline porosity being observed. Electric logs indicate a four-foot zone of 15% porosity with a water saturation of approximately 30%. This zone should be tried before abandonment of the well.

**MISSISSIPPIAN**

The top of the Mississippian "Detrital" was cut at 5,280 (-3,423) feet. Two porosity intervals were encountered. The upper was two-feet thick with a porosity of 22%. The lower was six-feet thick with a porosity of 19%. The gas chromatograph recorded kicks of 125 and 177-units respectively. Samples were tan to dark brown medium crystalline tripolitic chert with good intercrystalline and vugular porosity being observed. A yellow fluorescence with good streaming cut and odor was reported.

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The top of the Mississippian Dolomites was encountered at 5,300 (-3443) feet. Four to ten-foot drilling breaks were encountered throughout the upper 120 feet of the Mississippian. The gas chromatograph recorded 160 to 210-unit gas kicks through these zones. Samples were described as cream to light tan brownish dolomite with good intercrystalline porosity along with some vugular porosity being observed. A dull yellow fluorescence along with good streaming cut, abundant light brown live oil staining and good odor was recorded. Electric logs indicate the porosity intervals averaged between 9 and 15%, with all calculating productive.

### ELECTRIC LOG TOPS

	REDLAND MARION 11-11 SW/4 11-T35S-R16W	REDLAND WILBUR 14-5 W/2 14-T35S-R16W	REDLAND MURDOCK 1-10 SE/4 10-T35S-R16W
CHASE (Subsea)	2467 (-610)	2474 (-600)	2434 (-553)
TOP PENN. (Subsea)	3395 (-1538)	3400 (-1526)	3394 (-1513)
BS. HEEBNER (subsea)	4366 (-2509)	4390 (-2516)	4374 (-2493)
LANSING (subsea)	4575 (-2718)	4602 (-2728)	4577 (-2696)
STARK SH. (subsea)	4976 (-3119)	5011 (-3137)	4968 (-3087)
OSWEGO (Subsea)	5196 (-3339)	5221 (-3347)	5196 (-3315)
CHEROKEE SH. (subsea)	5232 (-3375)	5264 (-3390)	5236 (-3355)
MISS. DETRITAL (subsea)	5280 (-3423)	NOT PRESENT	5284 (-3403)
MISS. UNCON. (subsea)	5300 (-3443)	5332 (-3458)	5312 (-3431)

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## CONCLUSION

The Marion 11-11 was drilled as an in-fill development well for the potential of gas pay in the Mississippian "Detrital" and Dolomites. After all data was analyzed, the decision was made to set casing and attempt completion in the above mentioned zones.

I recommend perforating the Mississippian Dolomite from 5,301 to 5,420 feet and evaluating the results. I would then perforate from 5,280 to 5,282 and 5,288 to 5,294 in the Mississippian "Detrital".

Respectfully submitted

A handwritten signature in cursive script, appearing to read "Mike Pollok", with a small flourish at the end.

Mike Pollok  
Petroleum Geologist  
01/18/07

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