22-34s-14w
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GEOLOGICAL REPORT
RAY 22-2
C NE SECTION 22 – T34S – R14W
BARBER COUNTY, KANSAS

SUMMARY

The above captioned well was drilled to a total depth of 5,012 feet on September 29, 2007. A one-man logging unit was on location from approximately 2,800 feet to TD, with one-man mud-logging beginning at 3,800 feet to TD. The well was under the geological supervision of the undersigned from approximately 3,950 feet to TD. At TD, Halliburton electric logs were run that consisted of Dual Induction, Compensated Neutron-Density, and Micro-log. From the data collected while drilling and analyzing, hydrocarbon shows were encountered in the Mississippian Detrital and Mississippian Dolomite. The decision was made to set production casing and attempt completion in the above mentioned zones.

MISSISSIPPIAN DETRITAL

The Detrital was topped at 4,779 (-3137) feet. The gas chromatograph recorded a gas kick of 55 units. The samples were described as off white, cream, buff, light brown limestone with fine to very fine intercrystalline porosity. Traces of glauconite, dolomite, and chert were observed. A dull yellow fluorescence with weak streaming cut and very slight odor was recorded. The electric log indicated a total of 10 feet of detrital with an average porosity of 16%.

MISSISSIPPIAN DOLOMITE

The Mississippian Dolomite was cut at 4,790 (-3148) feet. The gas chromatograph recorded several kicks of over 50-units in a 40-foot zone. Samples were described as off white, light brown to tan light grey dolomite with very fine micro-intercrystalline porosity. Abundant very sucrosic dolomitic limestone grading into limey dolomite with very good intercrystalline porosity and traces of tripolite chert was observed. A bright yellow fluorescence with excellent flash streaming cut and good odor was observed. Electric logs indicated the average cross-plot porosity of 9% that should be productive after fracture treatments.

ELECTRIC LOG TOPS

	REDLAND RAY 22-2 C NE 22-T34S-R14W	REDLAND WILLIAMS 22-12 C SW 22-T34S-R14W	REDLAND NITA 21-10 C SE 21-T34S-R15W
CHASE (subsea)	2090 (-448)	2127 (-463)	2083 (-473)
TOP PENN. (subsea)	3053 (-1411)	3089 (-1425)	3030 (-1420)
BS. HEEBNER (subsea)	3996 (-2354)	4028 (-2364)	3954 (-2344)
LANSING (subsea)	4174 (-2532)	4198 (-2534)	4144 (-2534)
STARK SH. (subsea)	4579 (-2937)	4616 (-2952)	4558 (-2948)
CHEROKEE SH. (subsea)	4762 (-3120)	4806 (-3142)	4748 (-3138)
MISSISSIPPIAN (subsea)	4790 (-3148)	4818 (-3154)	4764 (-3154)

CONCLUSION

The Ray 22-2 was drilled as a northeast extension well aimed at exploiting Mississippian sediments. After all the data was evaluated it is recommended to set production casing and attempt completion of this well.

The Mississippian Detrital should be perforated from 4,788 to 4,790 feet. The Mississippian Dolomite should be perforated from 4,790 to 4,867 feet.

Respectfully submitted

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10/01/07

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10/01/07