ORIGINAL

MAP EXPLORATION, INC.

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11-35S-16W E2 NE

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GEOLOGICAL REPORT
DELL 11-8
E/2 NE/4 OF SECTION 11 – T35S – R16W
BARBER COUNTY, KANSAS

15-033-21422

11-35-16W

SUMMARY

The above captioned well was drilled to a total depth of 5,400 feet on December 31, 2004. A one-man mud-logging unit was on location from approximately 3,500 feet to TD, with samples being analyzed from 4,100 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,600 feet to TD. At TD, Reeves electric logs were run that consisted of Dual Induction, Compensated Density – Neutron and Microlog. From data collected while drilling and analyzing, hydrocarbons shows were encountered in the Oswego Limestone, the Mississippian Detrital and the Mississippian Dolomites. The decision was made to set production casing and complete the well in the Mississippian zones.

OSWEGO LIMESTONE

The Marmaton-aged Oswego Limestone (Pawnee Member), was topped at 5,120 (-3305) feet. A four-foot drilling break was encountered with an 81-unit gas kick recorded from the gas chromatograph. Samples were described as tan to cream very fine to fine crystalline limestone with good intercrystalline porosity that is slightly oolitic. A dull yellow fluorescence was observed. Electric logs indicate six feet of 12% cross-plot porosity that calculates productive. The microlog had positive separation throughout the whole zone indicating permeability. This zone has produced gas from nearby wells and should add reserves to the Dell 11-8.

MISSISSIPPIAN

The Mississippian Detrital was cut at 5,216 (-3401) feet. This zone was a total of 28 feet thick. The upper 18 feet averaged 14% and was slightly shaley with a slight increase in gas from the chromatograph. The lower portion was very clean and averaged 17% cross-plot porosity. An 86-unit gas kick was recorded on the gas chromatograph. Samples were described as a mixture of opaque, milky, translucent, chert that is slightly tripolitic along with off-white to cream buff dolomite with sucrosic texture that also had pinpoint and vugular porosity. A yellow fluorescence and streaming cut and fair odor was recorded.

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The top of the Mississippian graded in right below the detrital at 5,244 (-3429) feet. Samples were described as light brown to tan, very fine to fine crystalline dolomite, with a sucrosic texture. Pin-point, vugular, and intercrystalline porosity were all observed. A bright yellow fluorescence, fair to good streaming cut and trace of live oil staining was recorded along with good odor. A total of six dolomite intervals ranging from four to twelve feet and averaging 12% porosity was encountered in the top fifty feet of the Mississippian. Gas kicks from the chromatograph ranged from 80 to 109 units.

ELECTRIC LOG TOPS

	REDLAND DELL 11-8 E/2 NE 11-T35S-R16W	GRUENERWALD BALLET C-1 SE SE NE 11-T35S-R16W	REDLAND BALLET 11-3 N/2 NW 11-T35S-R16W
CHASE (subsea)	2406 (-591)	2396 (-586)	2435 (-594)
TOP PENN. (subsea)	3339 (-1524)	3330 (-1520)	3356 (-1515)
BS. HEEBNER (subsea)	4309 (-2494)	4302 (-2492)	4332 (-2491)
LANSING (subsea)	4513 (-2698)	4508 (-2698)	4534 (-2693)
STARK SH. (subsea)	4908 (-3093)	4907 (-3097)	4928 (-3087)
OSWEGO LM (subsea)	5120 (-3305)	5112 (-3302)	5137 (-3296)
CHEROKEE SH. (-subsea)	5162 (-3347)	5154 (-3344)	5178 (-3337)
MISS DETRITAL (subsea)	5216 (-3401)	5206 (-3396)	5224 (-3383)
MISS UNCONF. (subsea)	5244 (-3429)	5233 (-3423)	5270 (-3429)
OSAGE MARKER (subsea)	5324 (-3509)	5306 (-3496)	5345 (-3504)

CONCLUSION

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The Dell 11-8 was drilled as an in-fill well for Mississippian production, in an effort to encounter non-produced detrital and dolomites in the area. Samples and electric logs indicate economic quantities of hydrocarbons should be present in the borehole. A good four-foot zone of Oswego Limestone was also encountered that should add significant quantities of hydrocarbons.

It is recommended that a production string be set and the Mississippian Detrital and Mississippian Dolomites be perforated for production from 5,216 to 5,298. Before abandonment of this well, the Oswego Limestone should be perforated from 5,121 to 5,126 feet.

Respectfully submitted,

Mike Pollok
Petroleum Geologist
01/04/05