



MAP EXPLORATION, INC.

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24-345-13W
C W2 NE

GEOLOGICAL REPORT ROSE 1-22 W/2 NE/4 SECTION 22 – T34S – R13W BARBER COUNTY, KANSAS

1305 FNL • 1875 FEL
15-007-23091

SUMMARY

The above captioned well was drilled to a total depth of 4,935 feet on November 12, 2006. A mud-logging unit was on location from approximately 2,500 feet to TD recording gas, with one-man mud-logging beginning at 3,500 feet to TD. The well was under the geological supervision of the undersigned from approximately 3,850 feet to TD. At TD, Precision wire-line logs were run that consisted of Array Induction, Density-Neutron Porosity and Micro-log. After all data was analyzed, the decision was made to set casing and attempt completion in the Mississippian Dolomites.

DOUGLAS SANDSTONE

The incised Douglas Sandstone was not encountered in the Rose 1-22. It looks like the well was drilled on the western edge of the channel. Hopefully as we develop the Mississippian Dolomites, we will be able to define the channel and the presence of large sand bodies.

MISSISSIPPIAN

The top of the Mississippian unconformity was topped at 4,708 (-3147) feet. A continuous section of dolomite interval was cut for approximately 80 feet. The gas chromatograph did not record gas kicks or very slight gas kicks through this total interval. Samples were described as tan to light brown very fine to fine crystalline sucrosic dolomite inter-bedded with cherts. Fair intercrystalline porosity along with some pin-point and vugular porosity was observed. A dull yellow fluorescence with fair streaming cut, and faint oil odor was observed. Electric logs indicate an 80-foot zone of 12% cross-plot average porosity that calculates productive. The Micro-log had very little positive separation, which I believe is due to the very fine crystalline nature of the dolomite. A lower interval was encountered at 4,808 (-3247) feet. The gas chromatograph agitator was replaced and a 92-unit gas kick was recorded through a fourteen-foot interval. Samples were described as above only with an increase in chert. Electric logs show a fourteen-foot zone of 17% cross-plot porosity.

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ELECTRIC LOG TOPS

	JACK ROSE 1-22 W/2 NE 22-T34S-R13W	PET TECH BLUNK 1 NE NE NE 22-T34S-R13W	K & E ADAMS B 1 NW NE 21-T34S-R13W
CHASE (subsea)	1995 (-434)	2031 (-441)	2032 (-439)
TOP PENN. (subsea)	2928 (-1367)	2954 (-1364)	2962 (-1369)
BS. HEEBNER (subsea)	3880 (-2319)	3878 (-2288)	3914 (-2321)
LANSING (subsea)	4052 (-2491)	4097 (-2507)	4092 (-2499)
STARK SH. (subsea)	4502 (-2941)	4538 (-2948)	4543 (-2950)
CHEROKEE SH. (subsea)	4666 (-3105)	4707 (-3117)	4700 (-3107)
MISS. UNCON. (subsea)	4708 (-3147)	4752 (-3162)	4734 (-3141)

CONCLUSION

The Rose 1-22 was drilled as an exploratory well for the Douglas Sandstone and for exploiting Mississippian sediments. The well seems to have encountered approximately 94 feet of potential pay from dolomites within the Mississippian. The lack of gas kicks through the Mississippian is concerning, but I think it can be explained by the replacement of the agitator motor.

After all data was analyzed, the decision was made to set casing and attempt completion in the Mississippian Dolomites. I recommend perforating the Mississippian Dolomite from 4,708 to 4,780. Also I would perforate the cherty dolomite interval from 4,808 to 4,822 feet.

Respectfully submitted



Mike Pollok
Petroleum Geologist
11/14/06

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