ORIGINAL

MAP EXPLORATION, INC.

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GEOLOGICAL REPORT
HACKBERRY 7-8
NE/4 SECTION 7 – T35S – R15W
BARBER COUNTY, KANSAS

SUMMARY

The above captioned well was drilled to a total depth of 5,350 feet on August 3, 2003. A mud-logging unit was on location from approximately 2,500 feet to TD recording gas, with one-man mud-logging beginning at 3,800 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,800 feet to TD. At TD, Reeves electric logs were run that consisted of Array Induction, Photo Density - Neutron, and Micro-log. From the data collected while drilling and analyzing, hydrocarbon shows were encountered in the Elgin Sandstone, the Pawnee Limestone, Mississippian Detrital and Mississippian Dolomite zones. The decision was made to set production casing and complete the well in the Pawnee and the Mississippian zones.

ELGIN SANDSTONE

The Elgin was topped at 4,066 (-2255) feet. A 100-unit net show was recorded on the gas chromatograph. Samples were described as clear light gray, very fine to fine grained consolidated sandstone, with good inter-granular porosity. There was no fluorescence cut or odor observed. Electric logs indicate a zone 132-foot zone of 20% porosity that calculates "wet".

PAWNEE LIMESTONE

The Pawnee, a member of the Marmaton-aged Oswego group was topped at 5,078 (-3267) feet. A six-foot drilling break was encountered with a 160-unit gas kick being recorded from the gas chromatograph. Samples were described as off-white to cream tan limestone, with fair intercrystalline porosity being observed. A dull to bright yellow fluorescence was seen. No visible cut stain or odor was recorded. Electric logs indicate a six-foot zone of 20% porosity that calculates productive. The well in the SE SE of section 6-T35S-R15W also has this zone present. It was re-completed approximately two years ago in this zone making 500 MCFGPD. Our pumper checked this well last week and reported that it was making 140 MCFGPD. This zone should add reserves to our Mississippian intervals.

MISSISSIPPIAN

The Mississippian Detrital was topped at 5,174 (-3363) feet. The zone was a total of 26-feet thick, consisting of four individual porosity zones all approximately four feet thick that averaged 15% porosity. Samples were described as off-white to buff tan, very fine to fine crystalline dolomite with some pin-point and sucrosic porosity along with interbedded multicolored shales and chert pieces. The gas chromatograph recorded shows of 100, 70, 60 and 58 units respectively. A bright yellow fluorescence along with a good streaming cut and fair odor was observed. The micro-log indicated 12 feet of positive separation through the porous zones.

The top of the Mississippian was cut at 5,200 (-3389) feet. A six-foot drilling break was recorded with a 70-unit gas kick from the gas chromatograph being observed. This zone had a cross-plot porosity of 14% and was followed by a ten-foot dolomite with 10% porosity. Samples were described as buff tan fine crystalline dolomite with sucrosic and pin-point porosity, along with tripolitic chert with good visible intercrystalline porosity. A bright yellow fluorescence, good streaming cut and good odor was recorded through these zones along with gas bubbles. The micro-log indicates 20 feet of positive micro-log and wall-cake indicating permeability.

ELECTRIC LOG TOPS

	REDLAND HACKBERRY 7-8 SE NE 7-T35S-R15W	REDLAND SPICER 7-15 S/2 SE 7-T35S-R15W	MIDWEST BALLET 5 NE/4 7-T35S-R15W
CHASE (subsea)	2382 (-571)	2376 (-583)	2375 (-564)
TOP PENN. (subsea)	3327 (-1516)	3325 (-1532)	3330 (-1519)
BS. HEEBNER (subsea)	4273 (-2462)	4276 (-2483)	4278 (-2567)
LANSING (subsea)	4472 (-2661)	4468 (-2675)	4477 (-2756)
STARK SH. (subsea)	4884 (-3073)	4904 (-3111)	4888 (-3077)
CHEROKEE SH. (subsea)	5128 (-3317)	5142 (-3349)	5133 (-3322)

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MISS. DETRITAL. (subsea)	5174 (-3363)	5184 (-3391)	5174 (-3363)
TOP MISS. (subsea)	5200 (-3389)	5218 (-3425)	5200 (-3389)

CONCLUSION

The Hackberry 7-8 was drilled as an in-fill location for the Mississippian Detrital and dolomite zones. There is the potential for a total of 50 plus feet of pay in the two above mentioned zones. There also was a Pawnee "Oswego" Limestone zone that should be productive.

After all data was analyzed, the decision was made to set casing and attempt completion in the Mississippian zones, and most likely commingle with the Oswego zone.

Respectfully submitted

Mike Pollok
Petroleum Geologist
8/13/03