



# MAP EXPLORATION, INC.

ORIGINAL

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**GEOLOGICAL REPORT  
 SPICER 15-7  
 SE/4 SECTION 7 – T35S – R15W  
 BARBER COUNTY, KANSAS**

## SUMMARY

The above captioned well was drilled to a total depth of 5,350 feet on September 28, 2001. A one-man mud-logging unit was on location from 3,000 feet to TD, with samples being analyzed from 4,000 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,600 feet to TD. At TD, E.L.I. electric logs were run that consisted of Dual induction, Compensated Neutron – density and Micro-log. From data collected while drilling and analyzing, hydrocarbon shows were encountered in the Lansing-Kansas City, the Mississippian Detrital and Mississippian Dolomite zones. The decision was made to set production casing and complete the well as a gas well.

## LANSING-KANSAS CITY LIMESTONE

The Lansing-Kansas City (Drum) Limestone was drilled at 4,784 (-2991) feet. Samples were described as off-white to buff cream, microcrystalline to very fine crystalline limestone, with a trace of intercrystalline and fracture porosity being observed. A 12-foot drilling break was recorded with an 80-unit increase from the gas chromatograph. Electric logs indicated this zone to have 12% cross-plot porosity with resistivity of 2.5 ohms, which calculates "wet".

## MISSISSIPPIAN

The Mississippian Detrital was topped at 5,184 (-3391) feet. This zone was a total of 34 foot thick, with porosity averaging 15%, along with thirteen feet of positive micro-log separation. Samples were described as an off-white to cream buff dolomite with a sucrosic texture that also had pinpoint and vugular porosity. Cherts also were observed and consisted of opaque, milky and tripolitic chert. A 104-unit gas kick was observed along with a bright yellow fluorescence with good streaming cut, trace of light brown live oil staining and good odor.

The top of the Mississippian Unconformity was recorded at 5,218 (-3425) feet. Samples were described as off-white to cream tan, very fine to fine crystalline dolomite, with a trace of intercrystalline, pinpoint and vugular porosity. A bright yellow fluorescence along with good streaming cut; light brown oil staining and faint odor was reported through a 117-unit gas kick. Electric logs indicate a 20-foot zone of 11% porosity, with seven feet of positive micro-log separation that calculates productive.

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ELECTRIC LOG TOPS

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|                 | REDLAND     | SPRING       | MIDWEST     |
|-----------------|-------------|--------------|-------------|
|                 | SPICER 15-7 | BROWNBACK    | BALLET 5-7  |
|                 | SE/4        | NE/4         | NE/4        |
|                 | 7-T35S-R15W | 18-T35S-R15W | 7-T35S-R15W |
| CHASE           | 2376        | 2424         | 2375        |
| (subsea)        | (-583)      | (-598)       | (564)       |
| TOP PENN.       | 3325        | 3380         | 3330        |
| (subsea)        | (-1532)     | (-1554)      | (-1519)     |
| BS. HEEBNER     | 4226        | 4320         | 4278        |
| (subsea)        | (-2433)     | (-2494)      | (-2467)     |
| LANSING         | 4468        | 4508         | 4477        |
| (subsea)        | (-2675)     | (-2682)      | (-2656)     |
| STARK SHALE     | 4904        | 4955         | 4888        |
| (subsea)        | (-3111)     | (-3129)      | (-3077)     |
| CHEROKEE SH.    | 5142        | 5190         | 5133        |
| (subsea)        | (-3349)     | (-3364)      | (-3322)     |
| MISS DETRITAL   | 5184        | 5242         | 5174        |
| (subsea)        | (-3391)     | (-3416)      | (-3363)     |
| MISS UNCONFORM. | 5218        | 5264         | 5198        |
| (subsea)        | (-3425)     | (-3438)      | (-3387)     |

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1263

**CONCLUSION**

The Spicer 15-7 was drilled as a north extension to the production already established in section 18 - T35s - R15W. Samples and electric logs indicate a total of 44 feet of zone with approximately 20 feet of micro-log separation indicating good permeability. From drill time, sample examination, gas kicks and electric logs; this well should be as good if not better than the Brownback 1-18 to the south.

After all data was analyzed, the decision was made to set pipe and attempt completion in the above mentioned zones.

I recommend perforating the detrital from 5,184 - 5,202 & 5,208 - 5,214; the Mississippian Dolomite from 5,230 - 5,250

Respectfully submitted



Mike Pollok  
Petroleum Geologist

10/01/01