

11 NW 11E
W2 NE NW

GEOLOGICAL REPORT

Barnard Oil Operations

#B-2 McClelland

W/2 NE NW

Sec 14-T22S-R11E

Greenwood County, Kansas

660 FWL 1495 FWL

| | | | |
|----------------------|-------------------|--------------------|--------------------|
| COMMENCED: | 3/15/08 | STATUS: | Oil |
| COMPLETED: | 3/21/08 | A.P.I. NO: | 15-073-24069-0000 |
| CONTRACTOR: | Rig 6 Drilling Co | OPER LIC: | 5193 |
| SIZE OF HOLE: | 7 7/8 | FIELD: | Madison-Seely Wick |
| SURFACE PIPE: | 8 5/8 @ 100 | ELEVATION: | 1176 |
| CEMENTED: | 40 sacks | LOGS RUN: | None |
| LONG STRING: | 5 1/2 @ 1937 | MUD SYSTEM: | Chemical |
| CEMENTED: | 60 sacks-2% gel | OTHER: | |
| RTD: | 1938 | | |

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Dean Seeber, Geologist

Elevation 1176 Gr

| <u>Formation</u> | <u>Top</u> | <u>Datum</u> |
|--------------------------------|------------|--------------|
| Cherokee | 1643 | (-467) |
| Ardmore | 1738 | (-562) |
| Bartlesville Sandstone | 1829 | (-653) |
| Base of Bartlesville Sandstone | 1900 | (-724) |
| RTD | 1938 | (-762) |

Major Zones of Interest

Bartlesville Sandstone 1829 - 1850

Sandsstone, grey-white, fine-grained, micaceous, shale and tight sandstone broken, good odor and fluorescence where porous, fair oil stain

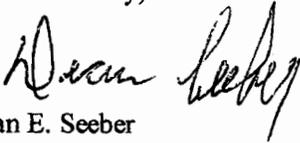
1850 - 1900

Sandstone, grey to very light buff, fine-grained, micaceous, strong fluorescence, very good porosity, good shows of live oil

Summary

Due to the good development in the Bartlesville, 5½" casing was run to TD and cemented.

Yours sincerely,



Dean E. Seeber
Petroleum Geologist

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1700

1700

sh. blk

ls. qtz, arg

sh. blk

sh. q, sd

sh. q, blk

sh. blk, py

ss, quartz, f, mica, good
adv, good floor, fair str

ss, shly, blk, good floor
where poor, fair scatt str

ss, qz to lt buff, f, mica
5' long floor + qz f oil

ss, acc

ss, acc

ss, acc

1800

1900

sh. blk

Ardmore

1738(-562)

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Bartlesville

1829 (-653)

Base Bartlesville

1900 (-724)