

ORIGINAL

BENNETT & SCHULTE OIL COMPANY
P.O. Box 329
Russell, Kansas 67665-0329

GEOLOGICAL REPORT

Elsasser No. 5
S/2-S/2-NW, Section 23,
Twp. 12 South, Rge. 15 West
Russell County, Kansas

June 10, 1997

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ORIGINAL

Bennett & Schulte Oil Co.
P.O. Box 329
Russell, Kansas 67665

GEOLOGICAL REPORT:

Elsasser No. 5
S/2-S/2-NW, 23-12S-15W
Russell County, Kansas

CONTRACTOR:

Vonfeldt Drilling Co. Rig No. 1
Russell, Kansas 67665

DRILLING COMMENCED:

June 4, 1997

DRILLING COMPLETED:

June 8, 1997

CASING RECORD:

8 5/8 set at 844'
5 1/2 set at 3273'

DRILLING TIME:

By Geolograph.
1' intervals plotted and recorded from
2550' to 3275' R.T.D.

SAMPLES:

10' intervals from 2650' to 3275' R.T.D.

DRILL STEM TESTS:

1 by Trilobite Testing L.L.C.
Hays, Kansas

LOGS:

Radiation Guard Log
Log-Tech-Hays, Kansas 67601

MUD TYPE:

Freshwater gel and drispac
Schmittberger Mud Co., Hays, Kansas

ELEVATION:

Kelly Bushing 1783'
Ground Level 1778'
Measurements from K.B.

FORMATION TOPS

<u>FORMATION</u>	<u>SAMPLE DEPTH</u>	<u>LOG DEPTH</u>	<u>MINUS DATUM</u>
*Anhydrite	836	836	+947
*Base-Anhydrite	876	875	+908
Topeka	2670	2672	-889
Heebner	2890	2889	-1106
Toronto	2910	2909	-1126
Lansing-Kansas City	2940	2942	-1159
Base-Kansas City	3195	3194	-1411
Arbuckle	3219	3220	-1437
Total Depth	3275	3248	-1465

* Drillers Tops

Lithology: Zones of Interest (Corrected to Log measurements)

Topeka 2672 (-889)
2673-76

LS; Buff, fine crystalline to slightly granular. Poor porosity with no visible show of oil or gas. No odor.

Plattsmouth
2825-36

LS; White to buff, fine to medium crystalline porosity with a trace of spotty stain. Slightly chalky. No free oil, but faint odor.

Heebner 2889 (-1106)

Toronto 2909 (-1126)

LS; White to light gray, fine crystalline and dense. Trace of spotty stain and chert. No free oil or odor.

Lithology: Page 3

3260-75 Dol; As above. More watery free oil and light spotty stain
in fair porosity. Good odor.

Rotary Total Depth 3275 (-1492)

Log Total Depth 3248 (-1465)

DRILL STEM TEST

Drill Stem Test No. 1 3192-3246 Arbuckle

Time Interval: 30 min. 30 min.

Blow: 1st Open - Weak decreasing to a surface blow.
2nd Open - None

Recovery: 15 feet of mud with oil spots

Pressures:

IHMP: 1586# IFP: 29# -29#
ISIP: 818#
FHMP: 1566#

Mud Properties:

Viscosity: 44 Weight: 9.1 Water loss: 9.2

REMARKS AND RECOMMENDATIONS

The Elsasser No. 5 ran 4 feet lower than the Elsasser No. 4 when comparing the Lansing-Kansas City tops as well as the Arbuckle tops.

The Lansing-Kansas City A, B, C, F, and G zones contained shows of oil. The best shows occurred in the B and C zones. All shows should be evaluated initially or prior to abandonment.

The Arbuckle section contained fair to good shows of oil but no permeability was present as indicated by no fluid recovery on the drill stem test.

DMS/das

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "David M. Shumaker". The signature is written in a cursive style with a large initial "D" and a long horizontal stroke at the end.

David M. Shumaker
Petroleum Geologist