

ALAN VONFELDT OIL
128 Eves Drive
Russell, Kansas 67665

GEOLOGICAL REPORT

Boxberger "H" No. 4
1750' FSL & 4950 FEL
Section 3, Twp. 14 South
Rge. 14 West
Russell County, Kansas

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December 17, 2001

Alan Vonfeldt Oil
128 Eves Drive
Russell, Kansas 67665

GEOLOGICAL REPORT:

Boxberger "H" No. 4
1750' FSL & 4950' FEL
3-14S-14W
Russell County, Kansas

DRILLING CONTRACTOR:

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

DRILLING COMMENCED:

December 3, 2001

DRILLING COMPLETED:

December 9, 2001

CASING RECORD:

8 5/8 set at 806' (log)
5 1/2 set at 3300'.

DRILLING TIME:

By Geolograph.
1' intervals plotted and recorded
from 2250' to 3381' R.T.D.

SAMPLES:

10' intervals from 2350' to
2500', then 10' intervals from 2650'
to 3381' R.T.D.

DRILL STEM TESTS:

1 by Trilobite Testing LLC
Hays, Kansas 67601

LOGS:

Radiation Guard Log W/SP
Log-Tech-Hays, Kansas 67601

MUD:

Chemical Mud
Andy's Mud & Chemical
Hays, Kansas 67665

ELEVATION:

Kelly Bushing 1832'
Ground Level 1827'
Measurements from K.B.

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FORMATION TOPS
(Log Tech-R-Guard)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite	816	+1016
Base-Anhydrite	855	+977
Grand Haven Lime	2355	-523
Dover Lime	2384	-552
Second Tarkio Sand	2390	-558
Tarkio Lime	2428	-596
Elmont Lime	2485	-653
Topeka	2690	-858
Heebner	2916	-1084
Toronto	2936	-1104
Lansing-Kansas City	2977	-1145
Base-Kansas City	3228	-1396
Gorham Sand	3242	-1410
Granite Wash	3313	-1481
Rotary Total Depth	3381	-1549
Log Total Depth	3382	-1550

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NOTE: All sample descriptions have been corrected to the open hole log measurements.

Lithology: Zones of Interest

2nd Tarkio Sand 2390 (-558)
2390-2402

SS; White to light gray, fine to medium
grained micaceous sand clusters. Fair
porosity with spotty stain. Very slight

show of free oil and faint odor.

Lithology: Page 2.

Topeka 2690 (-653)
2693-97

LS; Buff to white, poor crystalline porosity with a trace of stain. Fossiliferous. No free oil but faint odor.

2786-88

LS; White, poor crystalline porosity with a trace of stain. No free oil or odor.

2798-2801

LS; Buff, fair to poor crystalline porosity with scattered dark stain. Slightly fossiliferous. Very slight show of free oil and fair odor.

2870-76
Plattsmouth

LS; White, crystalline to slight pinpoint porosity with light stain. Very slightly chalky. Slight show of free oil and faint odor. Samples poor due to lost returns.

Heebner 2916 (-1084)

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Toronto 2936 (-1104)
2939-43

LS; White, fair to poor crystalline porosity with a trace of stain. No free oil but faint odor.

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Lansing-Kansas City 2977 (-1145)
2977-80
A Zone

LS; White to buff, fair crystalline porosity with light stain. Show of free oil and fair odor.

3000-03
B Zone

LS; White, crystalline to oolitic porosity. Fair porosity with light stain. Fair show of free oil and good odor.

Tested by D.S.T. No. 1

3018-24
C Zone

LS; White, oolitic to poor oolitic porosity with a trace of stain. No free oil but faint odor.

3064-68
F Zone

LS; White, oolitic to poor oolitic porosity. Fair porosity with light stain. Show of very light free oil and fair odor. White chert.

- 3074-92
G Zone LS; White, fair oolitic and oolitic porosity with a trace of stain. Fair odor but no free oil.
- 3124-26
H Zone LS; Light gray to white, poor crystalline porosity with a trace of stain. Cherty. No free oil or odor.
- 3147-52
I Zone LS; White, poor oolitic and oolitic porosity with a trace of stain. No free oil or odor.
- 3162-63
J Zone LS; White to buff, fine crystalline, dense to chalky. Slightly fossiliferous with no show.
- 3198-3200
K Zone LS; Buff, fine crystalline and dense, slightly fossiliferous. Poor porosity with no show.
- 3222-24
L Zone LS; Buff, fine crystalline and dense.

Base-Kansas City 3228 (-1396)

- Gorham Sand 3243-50 SS; White to transparent, well sorted medium Grained with dolomitic cement. Poor porosity with light stain. Very slight show of free oil and faint odor.
- 3258-72 SS; Transparent to white fine to medium grained sand clusters. Fair porosity with spotty stain. Show of watery light free oil and good odor.

Granite Wash 3313 (-1481)
3313-3382

Wash Material; medium to coarse. Rounded Quartz grain-with some clusters. Weathered Granite with included biotite and feldspar. Samples carry a very slight show of free oil and good odor. Sample lag time was affected by loss of fluid and erratic pump pressure.

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DRILL STEM TEST

Drill Stem Test No. 1 2994-3010 "B" Zone

Time: 30-30-30-30

Blow: 1st Open -- strong-bottom of bucket in 6 min.
2nd Open-strong-bottom of bucket in 6 min.

Recovery:

650 feet of salt water with a scum of oil

650 feet of total fluid

NOTE: Tool slid 7 feet to bottom

Pressures:

IHMP: 1454#

IFP: 66#-197#

ISIP: 927#

FFP: 241#-927#

FSIP: 927#

BHT: 98 F

FHMP: 1411#

Chlorides: 59,000 PPM (rec)
6,000 (mud)

Mud Properties:

Viscosity: 48

Weight: 9.1

Water loss: 8.0

REMARKS AND RECOMMENDATIONS

The Boxberger "H" No 4 ran 1 foot higher than the Boxberger "H" No. 3 (approx. 1 ½ locations east) when comparing the Topeka, Lansing-Kansas City and Gorham Sand datums.

The Lansing-Kansas City contained some fair shows of oil in the A Zone, and B Zone. The G Zone contained a minor show. The B Zone was tested by itself with 650 feet of salt water being recovered.

The Topeka section contained some fair shows in the Deer Creek and Plattsmouth sections. Sample through the Plattsmouth were poor due to lost circulation. The very top of the Topeka contained a poor show, not as good as the Boxberger "H" No. 3.

It is my opinion that the Deer Creek and Plattsmouth are the best shot in the Topeka.

The Gorham Sand, although 1 foot higher than the Boxberger "H" No. 3 looked wet but it did have fair shows of oil in it. 5 ½ casing was set at 3307' some 65 feet in for use as a disposal if need be.

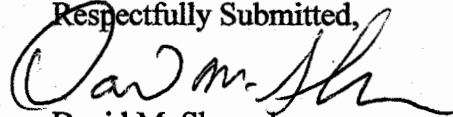
The Granite Wash was encountered at 3313' and drilled a depth of 3382' (L.T.D.). The Wash logged some minor shows of oil. Again sample lag was affected by lost circulation and variation in pump pressures.

The Topeka and Tarkio contained the best shows of oil and probably less water. The Lansing-Kansas City A Zone will make some oil but it will also produce water. In my opinion the Topeka should be perforated initially since it will make less water. If disposal capacity is increased the Lansing zones as well as the Gorham Sand could be perforated in the future.

DMS/das

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Respectfully Submitted,



David M. Shumaker
Petroleum Geologist