

ORIGINAL

API # 15-167-23189-0000

JERRY J. DRISCOLL OIL INVESTMENTS, INC.
P.O. Box 921
Russell, Kansas 67665-0921

GEOLOGICAL REPORT

Borell No. 3
NW-NW-SE, Section 32,
Twp. 14 South, Rge. 12 West
Russell County, Kansas

December 7, 2000

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GEOLOGICAL REPORT:

Borell No. 3
NW-NW-SE, 32-14S-12W
Russell County, Kansas

DRILLING CONTRACTOR:

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

DRILLING COMMENCED:

December 2, 2000

DRILLING COMPLETED:

December 7, 2000

CASING RECORD:

8 5/8 set at 676' with 350 sx.
New 5 1/2 set at 3267' with
250 sx.

DRILLING TIME:

By Geologist.
1' intervals plotted and recorded
from 2400' to 3422' R.T.D.

SAMPLES:

10' intervals from 2550' to 3422'
R.T.D.

DRILL STEM TESTS:

No drill stem tests were run on the
Borell No. 3.

LOGS:

Radiation Guard Log
ELI Wireline Services, Hays, Kansas

ELEVATION:

Kelly Bushing 1730'
Ground Level 1725'
Measurements from K.B.

NOTE: Log measurement (T.D) were 33' up hole when compared to the Rotary T.D.

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FORMATION TOPS
(Log-Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite	658	+1072
Base-Anhydrite	690	+1040
Topeka	2566	-836
Heebner	2802	-1072
Toronto	2821	-1091
Brown Lime	2890	-1160
Lansing-Kansas City	2904	-1174
Base-Kansas City	3156	-1426
Gorham Sand	3194	-1464
Arbuckle	3200	-1470
Granite Wash	3340	-1610
Rotary Total Depth	3422	-1692
Log Total Depth	3389	-1559

Lithology: Zones of Interest

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

Topeka 2566 (-836)

2567-70

LS; White to buff, fine crystalline and dense, slightly chalky. No show.

2762-74

(Plattsmouth)

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

Heebner 2802 (-1072)

Toronto 2821 (-1091)

2825-27 LS; White, fine crystalline and dense, with gray chert. No show.

Brown Lime 2890 (-1160)

Lansing-Kansas City 2904 (-1174)

2904-06 LS; White, fine crystalline and dense, trace of poor crystalline porosity with no show.
A Zone

2926-35 LS; Buff to white, oolitic to poor oolitic porosity with scattered light stain. Slight show of free oil and faint odor.
C Zone

2971-76 LS; White, fair crystalline porosity, slightly fossiliferous with no show.
F Zone

2981-90 LS; White to buff, poor oolitic and oolitic porosity with scattered light stain. Slight show of free oil and faint odor.
G Zone

3040-42 LS; White to light gray, fine crystalline and dense, trace of crystalline porosity with no show.
H Zone

3056-58 LS; White, poor crystalline porosity with no show.
I Zone

3072-75 LS; Buff, poor crystalline porosity with no show.
J Zone

3110-14 LS; Buff, fine crystalline and dense. No show.
K Zone

Base-Kansas City 3156 (-1426)

Gorham Sand 3174 (-1464)

3194-3200 SS; White to transparent, large Quartz grains in clusters with dolomitic matrix. Grains are rounded to sub-rounded. Good porosity with light stain. Very slight show of free oil and fair odor.

Lithology: Page 3

Arbuckle 3200 (-1470)

3200-06 Dol; White, fine to medium crystalline and dense. Some included rounded Quartz grains NO visible show.

3206-12 Dol; White, fine crystalline to fine grained, tight porosity with included Quartz grains with no show.

3216-27 Dol; White, fair crystalline porosity with included rounded Quartz grains. No visible show.

3234-41 Dol; White, fair to good medium crystalline porosity with no show.

3274-3310 Dol; White, crystalline matrix with a great deal of included sand grains. Porosity appears to be fair to good with no show. Some loose sand clusters with dolomitic matrix.

Granite Wash 3340 (-1610)

3341-49 Wash; Weathered granite with included biotite and feldspar, large loose Quartz grains. Good porosity with no visible show.

3350-89 Wash; More weathered granite, with included biotite and feldspar. Very little Quartz grains. Poor porosity with no visible show.

Rotary Total Depth 3422 (-1692)

Log Total Depth 3389 (-1559)

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REMARKS AND RECOMMENDATIONS

The Borell No. 3 ran 12 feet lower than the Borell No. 2 (100' W of NW-NE-SE, 32-14S-12W) when comparing the Lansing-Kansas City tops. No commercial shows were noted in the Lansing-Kansas City sections.

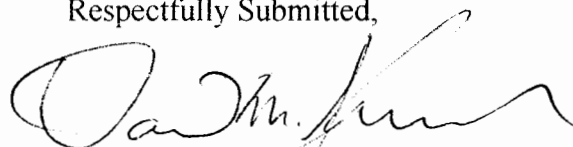
The Gorham Sand tops found in the Borell No. 3 was some 24 feet lower than that of the Borell No. 2. The sand did contain good porosity with light stain, a very slight show of free oil and fair odor. The Gorham is probably too low to produce. The Arbuckle was also low and contained no visible show of oil, but was very sandy through-out. The section of Arbuckle below the 5 1/2 set at 3269' contained fair to good porosity and should take water.

The Granite Wash was penetrated some 49 feet with the top 8 feet being the most porous, again to should take water in good shape.

After drilling was completed, the log indicated a 33 foot mistake up hole. It was my opinion that we were off 30+ feet in the Topeka, but since this well is to be used as a disposal, the hole was made with the correction made after logging.

DMS/das

Respectfully Submitted,



David M. Shumaker
Petroleum Geologist