

Computer Inventories

ORIGINAL

Starr F. Schlobohm Oil Operations  
P.O. Box 184  
Durham, New Hampshire 03842-0184

MAR 10  
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APR 7 1994

FROM CONFIDENTIAL

GEOLOGICAL REPORT

Karst-Ralph No. 1  
NW-SW-SW, Section 11,  
Twp. 16 South, Rge. 15 West  
Barton County, Kansas

November 15, 1992

RECEIVED  
STATE CORPORATION COMMISSION

MAR 15 1993

CONSERVATION DIVISION  
Wichita, Kansas

Starr F. Schlobohm Oil Operations  
P.O. Box 184  
Durham, New Hampshire 03842-0184

**GEOLOGICAL REPORT:**

Karst-Ralph No. 1  
NW-SW-SW, 11-16S-15W  
Barton County, Kansas

**DRILLING CONTRACTOR:**

Emphasis Oil Operations Rig No. 6  
Russell, Kansas 67665

**DRILLING COMMENCED:**

November 9, 1992

**DRILLING COMPLETED:**

November 15, 1992

**CASING RECORD:**

8 5/8 set at 652'.  
5 1/2 set at 3553'.

**SAMPLES:**

10' samples saved and examined  
from 2900' to 3557' R.T.D.

**DRILLING TIME:**

1' intervals plotted and recorded  
from 2800' to 3557' R.T.D.

**DRILL STEM TESTS:**

3 by Swift Formation Testers  
Great Bend, Kansas

**LOGS:**

Radiation Guard Log, Micro Log  
ELI Wireline Services  
Hays, Kansas

**ELEVATION:**

American Elevations, Inc.  
Kelly Bushing 1980'  
Ground Level 1975'  
Measurements from K.B.

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FORMATION TOPS  
(ELI-Guard Log)

<u>FORAMTION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite	998	+982
Base-Anhydrite	1028	+952
Topeka	2922	-942
Heebner	3151	-1171
Toronto	3168	-1188
Lansing-Kansas City	3213	-1233
Base-Kansas City	3440	-1460
Conglomerate	3457	-1477
Arbuckle	3472	-1492
Rotary Total Depth	3557	-1577
Log Total Depth	3553	-1573

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**Lithology: Zones of Interest**

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

Topeka 2922 (-942)  
3097-3101

LS; White, crystalline, fossiliferous, slightly oolitic. Chalky, slight show of free oil and light stain. No odor.

Heebner 3151 (-1171)

Toronto 3168 (-1188)  
3174-76

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

Lansing-Kansas City 3213 (-1233)  
3214-17  
A Zone

LS; White, fine crystalline and dense.

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OP

3234-39  
B Zone

LS; White, crystalline and fossil porosity with scattered light stain. Very slight show of free oil and no odor.

Tested by D.S.T. No. 1

3244-52  
C Zone

LS; White, oolitic and suboolitic with scattered light stain. Show of free oil and no odor.

Tested by D.S.T. No. 1

3291-96  
F Zone

LS; White, broken porosity with light spotty stain. Very slight show of free oil and faint odor.

Tested by D.S.T. No. 2

3302-08  
G Zone

LS; White, oolitic and oolitic porosity, 98% barren porosity. Very slight show of free oil and very faint odor.

Tested by D.S.T. No. 2

3354-58  
H Zone

LS; White, crystalline and slightly fossiliferous. Cherty. Scattered light stain with a very slight show of free oil and no odor.

Tested by D.S.T. No. 3

3374-76  
I Zone

LS; White, poor fossil porosity with scattered light stain. No free oil or odor.

Tested by D.S.T. No. 3

3391-94  
J Zone

LS; Buff, crystalline to slight fossil porosity with light spotty stain. Very slight show of free oil and very faint odor.

Tested by D.S.T. No. 3

3420-24  
K Zone

LS; White to buff, fair to poor crystalline porosity with spotty stain. No free oil or odor.

Base-Kansas City 3440 (-1460)

Pleasanton Section  
3446-52

LS; White, oolitic and oolitic, show of heavy free oil and dark stain. No odor.

Conglomerate 3457 (-1477)

Arbuckle 3472 (-1492)  
3472-78

Dol; White, fair fine to medium crystalline porosity with scattered spotty stain. Show of free oil and very faint odor.

3480-88

Dol; White, better fine to medium crystalline porosity with spotty stain. Show of free oil and no odor.

Rotary Total Depth 3557 (-1577)

Log Total Depth 3553 (-1573)

GR:O.R.

DRILL STEM TESTS

Drill Stem Test No. 1 3227-3265 B & C Zones

Time: 45-45-45-45

Flows: 1st Open - good

2nd Open - good

Note: Slid tool approx. 14'.

Recovery: 60 feet of gas

750 feet of oil cut salt water

750 feet of total fluid

Pressures: IHMP: 1570# IFP: 252# - 286#  
ISIP: 731# FFP: 362# - 395#  
FSIP: 715# BHT: N.A.  
FHMP: 1554#

Mud Properties: Viscosity: 46 Weight: 9.0 Water loss: 10.0

Drill Stem Test No. 2 3277-3323 E, F & G Zones

Time: 30-30-30-30

Flows: 1st Open - Very good - off bottom of bucket in 3 min.

2nd Open - Very good

Recovery: 1320 feet of gas in pipe

840 feet of clean gassy oil

240 feet of muddy oil

120 feet of water

1200 feet of total fluid

Pressures: IHMP: 1612# IFP: 210# - 269#  
FSIP: 689# FFP: 378# - 420#  
FSIP: 664# BHT: N.A.  
FHMP: 1579#

Mud Properties: Viscosity: 44 Weight: 9.0 Water loss: 8.0

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DRILL STEM TEST CON'T

Drill Stem Test: No. 3 3347-3410 H, I and J Zones

Time: 45-45-45-45

Flows: 1st Open - Fair to good  
2nd Open - Good

Recovery: 700 feet of gas in pipe  
100 feet of muddy oil  
100 feet of total fluid

Pressures: IHMP: 1721# IFP: 92# -101#  
ISIP: 673# FFP: 117# - 143#  
FSIP: 640# BHT: N.A  
FHMP: 1680#

Mud Properties: Viscosity: 45 Weight: 9.0 Water loss: 11.0

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REMARKS AND RECOMMENDATIONS

5 1/2 casing was set on the Karst-Ralph No. 1 based on its structural position with relation to the Scheuerman No. 4 and the Florence-Schruben No. 1 and the positive drill stem tests that were noted in the Lansing-Kansas City.

The Pleasanton section as well as the Arbuckle contained shows of oil. It is my opinion that they both should be perforated initially or prior to abandonment. The Arbuckle appeared to be better developed in the Karst-Ralph No. 1 than the Scheuerman No. 4 and Florence-Schruben No. 1.

The following perforations are recommended based on sample examination and log evaluation of the Micro-Log and Radiation Guard Log.

Lansing-Kansas City:

3235-39 B Zone

3293-97 F Zone

3358-60 H Zone

3375-77 I Zone

3391-94 J Zone

Pleasanton Section

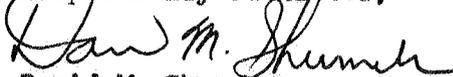
3450-51

Arbuckle

3473-78

DMS/das

Respectfully Submitted,



David M. Shumaker  
Petroleum Geologist

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