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STARR F. SCHLOBOHM OIL OPERATIONS
P.O. Box 184
Durham, New Hampshire 03824

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CONFIDENTIAL

GEOLOGICAL REPORT

Schruben Florence No. 1
NW-SW-NW, Sec. 11,
Twp. 16 South, Rge. 15 West
Barton County, Kansas

September 4, 1992

RELEASED

FEB 1 4 1995

FROM CONFIDENTIAL

RECEIVED
APCN COMMISSION

DEC 1 4 1992

REGISTRATION DIVISION
WICHITA, KANSAS

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GEOLOGICAL REPORT:

Schruben Florence No. 1
NW-SW-NW, 11-16S-15W
Barton County, Kansas

DRILLING CONTRACTOR:

Emphasis Oil Oper. Rig 6
Russell, Kansas 67665

DRILLING COMMENCED:

August 28, 1992

DRILLING COMPLETED:

September 3, 1992

CASING RECORD:

8 5/8 set at 623'..
5 1/2 set at 3513'.

DRILLING TIME:

Plotted and recorded from
2800' to 3515' R.T.D.

SAMPLES:

Saved and examined from 2900' to
3515' R.T.D. Samples sent to
KGS Sample Library.

DRILL STEM TESTS:

3 by Swift Formation Testers
Great Bend, Kansas

LOGS:

Radiation Guard Log
ELI Wire Line Services,
Great Bend, Kansas

MUD TYPE:

Chemical Mud
Midland Mud-Hays, Kansas

ELEVATION:

American Elevations
Kelly Bushing 1967'
Ground Level 1962'
Measurements from K.B.

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FORMATION TOPS
(ELI-Guard Log)

| <u>FORMATION</u> | <u>DEPTH</u> | <u>MINUS DATUM</u> |
|---------------------|--------------|--------------------|
| *Anhydrite | 980 | +987 |
| *Base-Anhydrite | 1009 | +960 |
| Topeka | 2906 | -939 |
| Heebner | 3135 | -1168 |
| Toronto | 3154 | -1187 |
| Lansing-Kansas City | 3198 | -1231 |
| Base-Kansas City | 3420 | -1453 |
| Conglomerate | 3438 | -1471 |
| Arbuckle | 3463 | -1496 |
| Rotary Total Depth | 3515 | -1548 |
| Log Total Depth | 3515 | -1548 |

*Drillers Tops

Lithology: Zones of Interest

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

Lansing-Kansas City 3198 (-1231)

3199-3201

A Zone

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

3219-22

B Zone

LS; White, poor crystalline porosity, fossiliferous and slightly oolitic. Scattered light stain. No free oil or odor.

Tested by D.S.T No. 1

3233-35

C Zone

LS; Buff, crystalline and slightly oolitic, dense. Scattered very light stain. Very slight show of free oil. No odor.

Tested by D.S.T. No. 1

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3483-90

Dol: White, fair fine to medium crystalline porosity with a trace of stain. Very slight show of free oil and no odor.

Rotary Total Depth 3515 (-1548)

Log Total Depth 3515 (-1548)

DRILL STEM TESTS

Drill Stem Test No. 1 3204-45

Time Interval: 15-45-45-45

Blow: 1st Open - Strong
2nd Open - Strong - Gas to surface 30 min into 2nd shut in.

Recovery: 450 feet of gassy oil

Pressures: IHMP: 1570# IFP: 109# - 118#
 ISIP: 681# FFP: 143# - 177#
 FSIP: 630# BHT: N.A.

Mud Properties: Viscosity : 48 Weight: 8.9 Water loss: 10.0

Drill Stem Test No. 2 3257-3305

Time Interval: 45-45-45-45

Blow: 1st Open - Weak increasing to good
2nd Open - Good

Recovery: 330 feet of gas in pipe
 90 feet of heavy oil and gas cut mud

Pressures: IHMP: 1629# IFP: 42# - 58#
 ISIP: 656# FFP: 84# - 101#
 FSIP: 630# BHT: N.A.
 FHMP: 1615#

Mud Properties: Viscosity: 50 Weight: 9.0 Water loss: 11.0

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DRILL STEM TEST CON'T

Drill Stem Test No. 3 3333-90

Time Interval: 15-45-45-45

Blow: 1st Open - Strong
2nd Open - Strong - gas to surface in 25 min. into 2nd Open.

Recovery: 1400' clean gassy oil

| | | |
|------------|-------------|------------------|
| Pressures: | IHMP: 1662# | IFP: 135# - 151# |
| | ISIP: 933# | FFP: 277# - 463# |
| | FSIP: 882# | BHT: N.A. |
| | FHMP: 1651# | |

Mud Properties: Viscosity: 49 Weight: 8.8 Water loss: 12.0

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REMARKS AND RECOMMENDATIONS

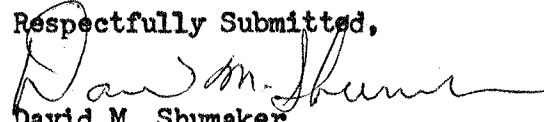
The Schruben Florence No. 1 ran 4 feet lower than the Keil "C" No. 5 (1 Location West) when comparing the Lansing tops. Only minor sample shows were noted, but good recoveries of oil and bottom hole pressure were encountered. The formation appears to be fractured which would account for the little or no visible shows. The following zones should be pevaluated for the presence of fractures with the cement bond log, B, C, F, G, H, I, and J Zones. The zones just mentioned have potential to produce and should be perforated as described.

The Arbuckle datum of -1496 was 10 feet higher than the Keil "C" No. 5. The samples from 3473-78 contained a slight show of heavy free oil, but no odor. I would recommend that this interval (3473-78) be perforated initially or prior to abandonment.

5 1/2 casing was run based on the structural position as well as the positive drill stem tests.

DMS/das

Respectfully Submitted,


David M. Shumaker
Petroleum Geologist

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