

PT 33-15-11W

Barton Oil Co.
P.O. Box 589
Russell, Kansas 67665

GEOLOGICAL REPORT: Swart No. 2
SW-SW-NE, 33-15S-11W
Russell County, Kansas

CONTRACTOR: Red Tiger Drilling Rig 5
Wichita, Kansas

DRILLING COMMENCED: December 2, 1983

DRILLING COMPLETED: December 9, 1983

CASING RECORD: 8 5/8 set at 349 cemented
with 200 sxs. 60/40 poz.,
2 1/2 gal., 3 1/2 cc.

SAMPLES: 10' intervals from 2100' to
3240' R.T.D.

DRILLING TIME: By Geolograph.
1' intervals plotted and
recorded from 2050' to
3240' R.T.D.

DRILL STEM TESTS: 2 by Swift Formation Testers
Great Bend, Kansas

LOGS: No logs were run on the
Swart No. 2.

ELEVATION: Laughlin-Simmons Co., of Kansas
Kelly Bushing 1756'
Ground Level 1751'
Measurements from K.B.

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33-15-11W
start 2

FORMATION TOPS

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUMS</u>
*Anhydrite	613	+1143
*Base Anhydrite	635	+1121
Grand Haven	2188	-432
Dover	2213	-457
Tarkio Lime	2263	-507
Elmont	2326	-570
Topeka	2501	-745
Heebner	2794	-1038
Toronto	2811	-1055
Douglas	2824	-1068
Brown Lime	2887	-1131
Lansing-Kansas City	2903	-1147
Base-Kansas City	3170	-1414
Conglomerate	3203	-1447
Arbuckle	3230	-1474
Rotary Total Depth	3240	-1484
*Drillers Tops		

Lithology: Zones of Interest

NOTE: There were no shows logged in the Tarkio and Topeka sections.

Heebner 2794 (-1038)

Toronto 2811-Top (-1055)
2812-15

LS: White, fine crystalline and dense, traces of spotty light stain in poor crystalline porosity. No free oil or odor.

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Swartz

Douglas 2814 (-1068)
2841-45

LS; White to light gray, fine grained and micaceous. Trace of free oil and no odor. No stain or optical properties.

Brown Lime 2887 (-1131)
2887-90

LS; Tan, fine crystalline and dense. No free oil or odor.

Lansing-Kansas City 2903-Top (-1147)
2907-09

LS; White, fine crystalline and oolitic. Traces of poor spotty stain in poor porosity. No free oil or odor.

2936-44

LS; White, fair oolitic porosity with scattered light stain. Trace of free oil and faint odor.

Tested by D.S.T. No. 1 (See Test Results)

2988-94

LS; White, poor oolitic to oolitic porosity. No free oil or odor.

3001-11

LS; White to buff, fine crystalline and chalky. Poor interoolitic porosity with no show of free oil or odor.

3048-51

LS; White, fine crystalline and chalky. Poor oolitic porosity with no show of free oil or odor.

3081-86

LS; Buff, poor oolitic to oolitic porosity with very spotty stain. No free oil or odor.

3121-26

LS; Buff, very fine crystalline and dense, slightly fossiliferous. No free oil or odor.

3152-56

LS; Buff to light gray, fine crystalline and dense, very shaley. No free oil or odor.

Base-Kansas City 3170 (-1414)

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Conglomerate 3203-Top (-1447)
3204-21

Congl; Multicolored weathered chert with fine crystalline lime and red to gray associated shales. No shows.

Tested by D.S.T. No. 2 (See Test Results)

3221-29

Congl; White, red and yellow oolitic chert. Traces of fine crystalline dolomite with no visible show of oil.

Tested by D.S.T. No. 2 (See Test Results)

Arbuckle 3230 (-1474)
3230-34

Dol; White to buff, fine crystalline. Appears shaley and cherty. No show of oil.

Tested by D.S.T. No. 2 (See Test Results)

3234-40

Dol; White, fine to medium crystalline porosity with a fair show of free oil and fair odor.

Tested by D.S.T. No. 2 (See Test Results)

Rotary Total Depth 3240 (-1484)

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Swart 2
33-155-11W

DRILL STEM TESTS

Drill Stem Test No. 1 2911-2950 L.K.C.

Time: Open 30 min., Shut in 30 min., Open 30 min., Shut in 30min.

Blow: Initial - weak for 20 min.
Final - weak and intermitent

Recovery:
20 feet mud

Pressures:
IHMP: 1637# IFP: 25# - 30#
ISIP: 941# FFP: 30# - 35#
FSIP: 924# BHT: N.A.
FHMP: 1630#

Mud Properties:
Viscosity: 47 Weight: 10.2 Water loss: 12.0

Drill Stem Test No. 2 3164-3240 Arb.

Time: Open 30 min., Shut in 60 min., Open 30 min., Shut in 60 min.

Blow: Initial - good
Final - good

Recovery:
60 feet of gas in the pipe
1960 feet of gassy saltwater with trace of oil

Pressures:
IHMP: 1788# IFP: 151# - 162#
ISIP: 941# FFP: 672# - 865#
FSIP: 941# BHT: N.A.
FHMP: 1780#

Mud Properties:
Viscosity: 43 Weight: 10.0 Water loss: 10.4

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REMARKS AND RECOMMENDATIONS

Swart 2
33-15-11w

The table below compares the Barton Oil Co. Swart No. 2 with the Barton Oil Co. Swart No. 1.

	<u>Barton Oil Co.</u>	<u>Barton Oil Co.</u>
	Swart No. 2 SW-SW-NE, 33-15S-11W Russell County, Kansas	Swart No. 1 C-NW-NE, 33-15S-11W Russell County, Kansas
Lansing-Kansas City	2903 (-1147)	2882 (-1149)
Arbuckle	3230 (-1474)	3199 (-1466)

After reviewing the table above, you will note that the Swart No. 2 was 2 feet higher than the Swart No. 1 when comparing the Lansing tops. The Swart No. 2 was 8 feet lower than that of the Swart No. 1 when comparing the Arbuckle minus datums.

The Lansing - Kansas City zone of interest from 2936-2944 was tested with negative results. The remainder of the Lansing-Kansas City section contained only very minor shows of oil and therefore not tested.

The Arbuckle minus of -1474 was flat with the Frontier Oil Co. Foster No. 1 and 8 feet lower than the Swart No. 1. The Arbuckle contained a fair shows of oil and was tested with negative results.

Since the Lansing-Kansas City and Arbuckle was tested with negative results it was recommended that the Swart No. 2 be plugged and completed as a dry hole.

Respectfully Submitted,

David M. Shumaker
David M. Shumaker
Petroleum Geologist

DMS/das

MAR 18 1984
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