

David M. Shumaker

Petroleum Geologist

P. O. Box 507

Russell, Kansas 67665

Bus. Ph. (913) 483-5519

33-8-22W

15-065-22195

Mobile Ph. (913) 483-5266

DENNIS W. SCHAFFER

P.C. Box 538

LaCrosse, Kansas 67546

GEOLOGICAL REPORT

Swank No. 1
NW-SW-SW, Section 33,
Twp. 8 South, Rge. 22 West
Graham County, Kansas

NOV 25 1985

State Geological Survey
WICHITA BRANCH

June 23, 1985

RECEIVED
STATE CORPORATION COMMISSION

NOV 21 1985

CONSERVATION DIVISION
Wichita, Kansas

33-8-22W
P1

Dennis W. Schaffer
P.O. Box 538
La Crosse, Kansas 67546

GEOLOGICAL REPORT:

Swank No. 1 ✓
NW-SW-SW, 33-8S-22W
Graham County, Kansas

CONTRACTOR:

Red Tiger Drilling Co. Rig 9
Wichita, Kansas

DRILLING COMMENCED:

June 15, 1985

DRILLING COMPLETED:

June 22, 1985

CASING RECORD:

8 5/8 set at 222' with
150 sxs. 60/40 poz.,
2 1/2 gal., 3 1/2 oc. No
Production Casing.

SAMPLES:

10' intervals from 3300' to
3931' R.T.D.

DRILLING TIME:

By Geologist.
1' intervals plotted and
recorded from 3150' to
3931' R.T.D.

DRILL STEM TESTS:

4 by Cheney Testing Co.
Hays, Kansas

LOGS:

No logs were run on the
Swank No. 1.

ELEVATION:

Kelly Bushing 2307'
Ground Level 2302'

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Swarth #

33-8-22W

FORMATION TOPS
(Sample tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUMS</u>
*Anhydrite	1888	+419
*Base-Anhydrite	1923	+384
Topeka	3308	-1001
Heebner	3528	-1221
Toronto	3550	-1243
Lansing-Kansas City	3565	-1258
Base-Kansas City	3781	-1474
Conglomerate	3869	-1562
Arbuckle	3910	-1603
Rotary Total Depth	3931	-1624
*Drillers Tops		

Lithology: Zones of Interest

Topeka 3308 (-1001)

NOTE: No shows were logged in the Topeka.

Heebner 3528 (-1221)

Toronto 3550 (-1243)
3551-54

Lansing-Kansas City 3565 (-1258)
3565-66

3601-04

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MONTANA BRANCH

LS; white, fine crystalline.
Chalky porosity. Cherty.
No free oil or odor.

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

LS; Buff, poor fossil porosity,
slightly granular. Trace of
fair stain. Trace of free
oil and no odor.

Swank # 33-8-224

P1

3617-20 LS; White, chalky fossil porosity with a trace of spotty stain.

3639-40 LS; White, poor crystalline and fossil porosity. No free oil or odor.

3653-58 LS; Buff, poor fossil and oolitic porosity, slightly chalky. No free oil or odor.

3700-05 LS; White, fine crystalline tight porosity. Cherty. Trace of free oil and light stain. No odor.

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

3720-22 LS; Buff, fine crystalline and dense. No free oil or odor.

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

3733-38 LS; White, fine crystalline and chalky, slightly fossiliferous. No free oil or odor.

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

3755-58 LS; White, tight fossil porosity with light stain. Slight show of free oil and faint odor.

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

3771-73 LS; White, fine crystalline and dense. Fossiliferous. No free oil or odor.

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

Base-Kansas City 3781 (-1474)

Conglomerate 3869 (-1562)

Arbuckle 3910 (-1603)

3910-20

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WICHITA BRANCH

LS; White, fine to medium crystalline porosity with dark stain. Included Quartz crystals and oolites. Fair show of heavy free oil and good odor.

Tested by D.S.T. 4 (See Test Results)

Swank #, 33-8-22W

Lithology: Page 3

3920-25

Dol; White, poor medium crystalline porosity with spotty stain. Shaley. Shows decreasing.

Tested by D.S.T No. 4 (See Test Results)

3925-31

Dol; White to buff, fine to medium crystalline porosity with a trace of spotty stain. No free oil but faint odor.

Tested by D.S.T. No. 4 (See Test Results)

Rotary Total Depth 3931 (-1624)

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Swank #1 33-8S-22W

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REMARKS AND RECOMMENDATIONS

The table below compares the Dennis W. Schaffer Swank No. 1 with the Imperial Oil Company No. 1 Frigon.

	<u>Dennis W. Schaffer</u>	<u>Imperial Oil Company</u>
	Swank No. 1 NW-SW-SW, 33-8S-22W Graham County, Kansas	Frigon No. 1 SW-SW-SW, 33-8S-22W Graham County, Kansas
Lansing-Kansas City	3565 (-1258)	3533 (-1243)
Arbuckle	3910 (-1603)	3880 (-1590)

After reviewing the table above, you will note that the Swank No. 1 ran 15 feet lower than the Frigon No. 1 when comparing the Lansing tops and 13 feet lower when comparing the Arbuckle tops.

The Lansing-Kansas City contained only minor shows of oil and were tested to prove that they are nonproductive.

The Arbuckle was tested to minus of -1624 at which drilling mud was recovered. At -1624, it was considered by the writer and the operator to be of no commercial value as the Swank No. 1 was plugged and completed as a dry hole.

Respectfully Submitted,

David M. Shumaker

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Petroleum Geologist

DMS/das

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WICHITA BRANCH

DRILL STEM TESTS

Drill Stem Test No. 1 3685-3787 L.K.C.

45-30-10-10

First Open: Surface blow for 40 min.

Second Open: No blow.

Recovery:
15 Feet of mud

Pressures:

IHMP: 2113#	IFP: 96# - 106#
ISIP: 788#	FFP: 115# - 115#
FSIP: 394#	BHT: 109°F
FHMP: 2094#	

Mud Properties:

Viscosity: 68 Weight: 9.6 Water loss: 12.0 cc.

Drill Stem Test No. 2 3905-3920 Arbuckle
Miss Run - No Test

Drill Stem Test No. 3 3915-3925 Arbuckle
30-30-10-10 - Tool Plugged - No Test

First Open: 1 1/2 blow died in 30 min.

Second Open: No blow.

Recovery:
125 Feet of mud.

Pressures:

IHMP: 2123#	IFP: N/A
ISIP: 1200#	FFP: N/A
FSIP: 846#	BHT: N/A
FHMP: 2103#	

Mud Properties:

Viscosity: 65 Weight: 9.6 Water loss: 7.2 cc.

Oper: Dennis W. Shaffer
Swank #1
33-85-22W
NW SW SW

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Drill Stem Test Con't.

Swank #1

33-8-22W P1

Drill Stem Test No. 4 3866-3931

30-30-45-30

First Open: 1/2 surface blow

Second Open: Reset tool 1" blow decreased to surface blow.

Recovery:

372 Feet of mud

Pressures:

IHMP: 212#	IFP: 250# - 298#
ISIP: 980#	FFP: 327# - 307#
FSIP: 500#	BHT: 109°F
FHMP: 2094#	

Mud Properties:

Viscosity: 48 Weight: 9.9 Water loss: 10.8 cc.

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