

35-11s-20w

REPORT COPY

GEOLOGICAL REPORT



No. 1 Schoenthaler
1390' FSL & 180' FEL
Section 35-11S-20W
Ellis County, Kansas

15-051-25602-00-00
SE NE SE

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 19 2007

CONSERVATION DIVISION
WICHITA, KS

Todd E. Morgenstern
Petroleum Geologist
8 North Main
P.O. Box 251
Ellinwood, Kansas 67526

OPERATOR: Russell Oil, Inc.

WELL: No. 1 Schoenthaler
API # 15-051-25,602-00-00

LOCATION: 1390' from the South Line
180' from the East Line
Section 35-11S-20W
Ellis County, Kansas

FIELD: Stella

CONTRACTOR: Southwind Drilling Inc.

DRILLING COMMENCED: 01-02-2007

DRILLING COMPLETED: 01-11-2007

DRILLING TIME: One (1) foot drilling time was recorded
from 3150' to 3775' RTD.

SAMPLES: Samples were saved and examined from 3200'
to 3775' RTD.

ELEVATIONS: 2096' Ground Level 2106' Kelly Bushing

MEASUREMENTS: All depths are measured from **2106' K.B.**

CASING RECORD: 8 5/8" Surface Casing set @ 267' with 190 sxs. 60/40 poz
5 1/2" Production Casing set @ 3774 with 125 sxs AA2

FORMATION TESTING: Four (4) tests was run by Trilobite Testing Inc.
Dan Bangle, Tester

MUD: Mud-Co. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech CNL/CDL, DIL, MEL

PRODUCTION: Oil

FORMATION TOPS:

FORMATION	LOG	DATUM
ANHYDRITE	1477'	+ 629'
BASE ANHYDRITE	1524'	+ 582'
TOPEKA	3144'	-1038'
HEEBNER SHALE	3367'	-1261'
TORONTO	3388'	-1282'
LANSING	3405'	-1299'
STARK SHALE	3594'	-1488'
BASE KANSAS CITY	3635'	-1529'
ARBUCKLE	3704'	-1598'
ROTARY TOTAL DEPTH	3774'	-1668'
ROTARY TOTAL DEPTH	3775'	-1669'

SAMPLE DESCRIPTIONS AND TEST DATA:

LANSING:

- 3406-3412 Limestone, cream and tan, finely crystalline, dense, slightly oolitic, no shows of oil
- 3440-3448 Limestone, cream and tan, finely crystalline, oolitic and slightly fossiliferous with fair visible porosity, trace of brown staining, light odor.
- 3484-3490 Limestone, light and cream, finely crystalline, dense in part, fossiliferous and chalky with fair visible porosity, trace of stain, no odor.
- 3494-3500 Same as above
- 3540-3545 Limestone, tan and brown, dense, fossiliferous, no shows were noted
- 3588-3596 Limestone, gray and cream, finely crystalline, oolitic and oolitic with good oolitic porosity, slightly chalky with good staining and saturation, fair to good show of free oil, good odor

FORMATION TEST NO. 1

Lansing-K.C (180'-200')
 Tested from 3567'-3616'

<i>Weak blow, died in 25 min.</i>	30 min.	I.H.P.	1749#
<i>No blow-back</i>	30 min.	I.F.P.	4# - 9#
<i>No blow</i>	30 min.	<u>I.S.I.P.</u>	<u>10#</u>
<i>No blow-back</i>	30 min.	F.F.P.	9# - 11#
	30 min.	F.S.I.P.	<u>14#</u>
		F.H.P.	1708#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 20' Mud

TEMPERATURE: 104*

CHLORIDES: N/A ppm (Recovery) 4,900 ppm (System)

Arbuckle

3706-3711 Dolomite, tan, gray and brown, very finely crystalline, dense with fair spotted staining, slightly show of free oil on break

3711-3715 Dolomite, tan, gray and brown, finely crystalline, slightly rhombic, with poor to fair visible crystalline porosity, slightly vugular impart, good odor, and good show of free oil

FORMATION TEST NO. 2

Arbuckle
 Tested from 3708'-3715'

<i>B.O.B. in 8 min.</i>	45 min.	I.H.P.	1810#
<i>No blow-back</i>	45 min.	I.F.P.	23# - 145#
<i>B.O.B. in 25 min. +</i>	45 min.	<u>I.S.I.P.</u>	<u>1056#</u>
<i>No blow-back</i>	60 min.	F.F.P.	149# - 234#
		F.S.I.P.	<u>1030#</u>
		F.H.P.	1778#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 175' Gas in Pipe
 506' Free Oil
 62' Mud Cut Gassy Oil

TEMPERATURE: 116*

CHLORIDES: N/A ppm (Recovery) 5,100 ppm (System)

3716-3724 Dolomite, tan and brown, fine to medium crystalline with good visible pinpoint vugular porosity, dark brown staining and saturation, good show of free oil, good odor

FORMATION TEST NO. 3

Arbuckle formation

Tested from 3709'-3724'

<i>B.O.B. in 8 min.</i>	45 min.	I.H.P.	1810#
<i>No blow-back</i>	45 min.	I.F.P.	23# - 145#
<i>B.O.B. in 25 min</i>	45 min.	<u>I.S.I.P.</u>	<u>1056#</u>
<i>No blow-back</i>	45 min.	F.F.P.	149# - 234#
	60 min.	F.S.I.P.	<u>1030#</u>
		F.H.P.	1778#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 175' Gas In Pipe
506' Clean Gassy Oil
62' Mud Cut Gassy Oil

TEMPERATURE: 114*

CHLORIDES: N/A ppm (Recovery) 5,100 ppm (System)

3726-3738 Dolomite, tan, brown and gray, finely crystalline with fair pinpoint vugular porosity, fair to good brown staining, slight show of free oil, fair odor

FORMATION TEST NO. 4

Arbuckle formation

Tested from 3727'-3738'

<i>Weak building to 2" blow.</i>	45 min.	I.H.P.	1833#
<i>No blow-back</i>	45 min.	I.F.P.	10# - 40#
<i>Weak 1/2" inch blow</i>	45 min.	<u>I.S.I.P.</u>	<u>1057#</u>
<i>No blow-back</i>	45 min.	F.F.P.	42# - 60#
	60 min.	F.S.I.P.	<u>1031#</u>
		F.H.P.	1761#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 20' Clean Oil
80' Muddy Water

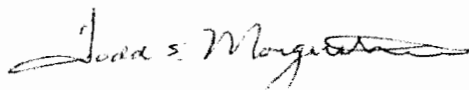
TEMPERATURE: 105*

CHLORIDES: 28,000 ppm (Recovery) 5,200 ppm (System)

SUMMARY:

The No. 1 Schoenthaler was under geological supervision from 3100' to 3775' RTD. With the positive results of drill stem tests No. 2 and No. 3 it was decided to run 5 1/2" production casing and complete this well through perforations.

Respectfully submitted,



Todd E. Morgenstern