

REPORT COPY

36-10S-23W
S2 NE

GEOLOGICAL REPORT



No. 2-36 McCall
2010' FNL & 1340' FEL
Section 36-10S-23W
Graham County, Kansas

15-065-23245-00-00

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. 2-36 McCall
API # 15-065-23,245-00-00

LOCATION: 2010' from the North Line
1340' from the East Line
Section 36-10S-23W
Graham County, Kansas

FIELD: Echo

CONTRACTOR: Shields Drilling Inc.

DRILLING COMMENCED: 11-17-2006

DRILLING COMPLETED: 11-24-2006

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: 2256' Ground Level 2261' Kelly Bushing

MEASUREMENTS: All depths are measured from 2261' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 219' with 175 sxs. 60/40 poz

FORMATION TESTING: Three (3) tests was run by Trilobite Testing Inc.
Tyson Flax, Tester

MUD: Mud-Co. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech (RAG)

PRODUCTION: Dry & Abandoned

FORMATION TOPS:

FORMATION	LOG	DATUM
ANHYDRITE	1746'	+ 515'
BASE ANHYDRITE	1792'	+ 469'
TOPEKA	3269'	-1008'
HEEBNER SHALE	3492'	-1231'
TORONTO	3514'	-1253'
LANSING	3528'	-1267'
STARK SHALE	3714'	-1453'
BASE KANSAS CITY	3747'	-1468'
ROTARY TOTAL DEPTH	3775'	-1514'
LOG TOTAL DEPTH	3777'	-1516'

SAMPLE DESCRIPTIONS AND TEST DATA:

TOPEKA:

3274-3280 Limestone, tan, gray, finely crystalline, slightly oolitic with poor visible intercrystalline porosity, slightly chalky with trace of dead staining, now show of free oil, no odor

TORONTO:

3514-3522 Limestone, tan and gray, very dense, finely crystalline, cherty in part with abundant pyrite, poor visible porosity, no shows of oil were noted

LANSING:

3530-3540 Limestone, tan and cream, finely crystalline, oolitic and fossiliferous with fair to good visible porosity, some pinpoint, slightly chalky, no shows of oil were noted

3566-3574

Limestone, cream, white and gray, finely crystalline, oolitic and fossiliferous with fair visible interparticle porosity, slightly chalky

FORMATION TEST NO. 1

Lansing-K.C (35')

Tested from 3552'-3576'

		I.H.P.	1685#
<i>Weak building to 1½" blow</i>	45 min.	I.F.P.	11# -32#
<i>No blow-back</i>	45 min.	<u>I.S.I.P.</u>	<u>888#</u>
<i>Weak building to 1" Blow</i>	45 min.	F.F.P.	34# -47#
<i>No blow-back</i>	45 min.	F.S.I.P.	<u>831#</u>
		F.H.P.	1666#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 30' Muddy Water w/ Scum of Oil
60' Muddy Water

TEMPERATURE: 104*

CHLORIDES: 4,900 ppm (Recovery) 2,100 ppm (System)

- 3581-3589 Limestone, cream, white and gray, finely crystalline, mostly dense, slightly oolitic, chalky in part, with poor visible porosity, no shows of oil were noted
- 3604-3609 Limestone, tan and gray, dense, finely crystalline, slightly fossiliferous with poor visible porosity, no shows of oil were noted
- 3615-3621 Limestone, as above, chalky, no shows of oil were noted
- 3668-3680 Limestone, gray and tan, finely crystalline, slightly fossiliferous and oolitic with scattered interparticle porosity, chalky in part, rare spotted staining, no show of free oil on break, no odor
- 3690-3698 Limestone, gray, tan and buff, finely crystalline, oolitic and slightly fossiliferous with fair interparticle porosity, fair spotted staining, slight show of free oil on break, light odor

FORMATION TEST NO. 2

Lansing-K.C (H & I)

Tested from 3644'-3598'

		I.H.P.	1752#
<i>Weak blow building to 4"</i>	45 min.	I.F.P.	17# -28#
<i>No blow-back</i>	45 min.	<u>I.S.I.P.</u>	<u>921#</u>
<i>Weak blow building to 6"</i>	60 min.	F.F.P.	29# -40#
<i>No blow-back</i>	90 min.	F.S.I.P.	<u>788#</u>
		F.H.P.	1725#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 5' Free Oil
58' Heavy Oil Cut Mud

TEMPERATURE: 108*

CHLORIDES: N/A ppm (Recovery) 2,100 ppm (System)

3702-3709 Limestone, gray, buff and tan, finely crystalline, oolitic with fair to poor visible interoolitic porosity, slightly chalky with fair spotted staining and saturation, fair show of oil on break, light odor

FORMATION TEST NO. 3

Lansing-K.C (180')
Tested from 3694'-3715'

<i>Weak building to 2½" blow</i>	45 min.	I.H.P.	1784#
<i>No blow-back</i>	45 min.	I.F.P.	18# -28#
<i>Weak building to 1" Blow</i>	45 min.	<u>I.S.I.P.</u>	<u>657#</u>
<i>No blow-back</i>	45 min.	F.F.P.	29# -35#
		F.S.I.P.	<u>463#</u>
		F.H.P.	1751#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 10' Free Oil
30' Mud Cut Oil
20' Heavy Oil Cut Mud

TEMPERATURE: 108*

CHLORIDES: N/A ppm (Recovery) 2,100 ppm (System)

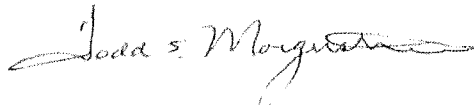
3721-3730 Limestone, white and gray, finely crystalline, chalky, oolitic with fair visible interoolitic porosity, rare spotted staining , no show of free oil, no odor

3742-3746 Limestone, tan and cream, dense, finely crystalline, slightly fossiliferous with poor visible porosity, no shows of oil were noted

SUMMARY:

The No. 2-36 McCall was under geological supervision from 3150' to 3775' RTD. With the negative results two drill stem tests and its lower structural position it was decided to plug and abandon this well.

Respectfully submitted,



Todd E. Morgenstern