20-8s-22w

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GEOLOGICAL REPORT



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RUSSELL OIL, INC.

NO. 2 QUINT 'C'
2310' FSL & 750' FWL
Section 20-8S-22W
Graham County, Kansas

15- 065 - 23037
N2 NW SW
2310 FSL 750 FWL

Todd E. Morgenstern
Petroleum Geologist
Sunflower Bank Building
P.O. Box 251
Ellinwood, Kansas 67526

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OPERATOR:	Russell Oil, Inc.
WELL:	No. 2 Quint 'C' API # 15-065-23,037-00-00
LOCATION:	2310' from the South Line 750' from the West Line Section 20-8S-22W Graham County, Kansas
FIELD:	Highland North
CONTRACTOR:	Shields Drilling Inc.
DRILLING COMMENCED:	3-15-2005
DRILLING COMPLETED:	3-22-2005
DRILLING TIME:	One (1) foot drilling time was recorded from 3100' to 3650' RTD.
SAMPLES:	Samples were saved and examined from 3100' to 3650' RTD.
ELEVATIONS:	2139' Ground Level 2144' Kelly Bushing
MEASUREMENTS:	All depths are measured from **2144' K.B.**
CASING RECORD:	8 5/8" Surface Casing set @ 217' with 175 sxs. 60/40 poz
FORMATION TESTING:	Three (3) tests were run by Trilobite Testing, Inc. Brandon Turley, Tester
MUD:	Mud-Co. (Chemical Mud)
OPEN HOLE LOGS:	Log-Tech (CNL-CDL, DIL)
PRODUCTION:	D & A

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FORMATION TOPS:

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	*****	**1752'**	**+ 392'**
BASE ANHYDRITE	*****	**1787'**	**+ 357'**
TOPEKA	3144'	**3147'**	**-1003'**
HEEBNER SHALE	3362'	**3364'**	**-1220'**
TORONTO	3388'	**3390'**	**-1246'**
LANSING	3396'	**3403'**	**-1259'**
MUNCIE CREEK	3514'	**3519'**	**-1375'**
STARK SHALE	3578'	**3581'**	**-1437'**
BASE KANSAS CITY	3612'	**3615'**	**-1471'**
ROTARY TOTAL DEPTH	3650'	**3650'**	**-1506'**
LOG TOTAL DEPTH	3653'	**3653'**	**-1509'**

SAMPLE DESCRIPTIONS AND TEST DATA:

TOPEKA:

3180-3187 Limestone, white, tan and gray, very finely crystalline, slightly fossiliferous, chalky, with poor visible porosity, no shows of oil were noted.

3310-3321 Limestone, gray, tan and cream, finely crystalline, microfossiliferous, oolitic and slightly oolicastic, with good visible porsosity, no shows of oil were noted.

TORONTO:

3390-3398 Limestone, white, tan and gray, mostly dense, finely crystalline, slightly fossiliferous, with poor visible intercrystalline porosity, chalky in part, no shows of oil were noted.

LANSING:

3403-3410 Limestone, white and tan, dense, finely crystalline, slightly fossiliferous, chalky, with poor visible porosity, no shows of oil were noted.

3433-3441 Limestone, gray and white, finely crystalline, fossiliferous, with fair visible fossiliferous and pinpoint porosity, light spotted staining, slight show of free oil, no odor.

3450-3456 Limestone, gray and white, dense to very finely crystalline, slightly fossiliferous, with poor visible intercrystalline porosity, no shows of oil were noted.

3470-3474 Limestone, tan and gray, finely crystalline, dense, fossiliferous, with poor visible interfossiliferous porosity, trace of spotted staining, no show of free oil, no odor. (Covered by D.S.T. No. 1)

3475-3478 Limestone, white and gray, finely crystalline, oolitic and slightly oolicastic, with fair visible interoolitic and pinhole porosity, slight show of free oil, scattered staining, questionable light odor. (Covered by D.S.T. No. 1)

FORMATION TEST NO. 1
Lansing-K.C (70' & 90' Zones)
Tested from 3450'-3478'

		I.H.P.	1695#
Weak building to 4" blow	30 min.	I.F.P.	30# -107#
No blow back	30 min.	I.S.I.P.	968#
Weak surface blow	30 min.	F.F.P.	109# -168#
No blow back	30 min.	F.S.I.P.	935#
		F.H.P.	1657#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 124' Mud
124' Water Cut Mud
130' Mud Cut Water
378' Total Liquid Recovery

TEMPERATURE: N/A

CHLORIDES: 13,500 ppm (Recovery) 600 ppm (System)

3534-3542 Limestone, white and tan, dense to finely crystalline, oolitic and slightly fossiliferous, with rare visible interoolitic porosity, slight scattered staining, very slight show of free oil on break, no odor. (Covered by D.S.T. No. 2)

3554-3561 Limestone, white, tan and gray, very finely crystalline, dense, oolitic, with poor visible interoolitic porosity, trace of spotted staining, very slight show of free oil on break, no odor. (Covered by D.S.T. No. 2)

3571-3580 Limestone, tan, gray and buff, mostly dense, finely crystalline, fossiliferous and oolitic, with rare interparticle and pinpoint porosity, slight scattered spotted staining, very slight show of free oil on break, light odor. (Covered by D.S.T. No. 2)

FORMATION TEST NO. 2
Lansing-K.C (140', 160' & 180' Zones)
Tested from 3512'-3580'

		I.H.P.	1698#
Weak ¼" blow	30 min.	I.F.P.	11# -13#
No blow back	30 min.	I.S.I.P.	37#
No blow	30 min.	F.F.P.	13# -14#
No blow back	30 min.	F.S.I.P.	26#
		F.H.P.	1680#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 5' Mud

TEMPERATURE: N/A

CHLORIDES: N/A ppm (Recovery) 600 ppm (System)

3590-3597 Limestone, white and gray, finely crystalline, fossiliferous and oolitic, with fair visible interparticle porosity, chalky, with fair dark staining and saturation, very slight show of oil on break, light odor. (Covered by D.S.T. No. 3)

FORMATION TEST NO. 3
Lansing-K.C (200' Zone)
Tested from 3574'-3600'

		I.H.P.	1754#
Weak blow died in 13 min.	30 min.	I.F.P.	22# -24#
No blow back	30 min.	I.S.I.P.	216#
No blow	30 min.	F.F.P.	25# -28#
No blow back	30 min.	F.S.I.P.	153#
		F.H.P.	1710#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 15' Mud w/ Oil Spots

TEMPERATURE: N/A

CHLORIDES: 13,500 ppm (Recovery) 600 ppm (System)

3606-3614 Limestone, white, gray and tan, dense, very finely crystalline, slightly oolitic and fossiliferous, with poor visible porosity, no shows of oil were noted.

STRUCTURAL COMPARISION:

	Russell Oil Quint C #2 2310' FSL & 750' FWL Sec. 20-8S-22W D&A	Russell Oil Quint B #1 W/2 SE NW Sec. 20-8S-22W Oil	Russell Oil Quint B #2 NE SE NW Sec. 20-8S-22W Oil
ANHYDRITE	**+ 392'**	+ 381'	+ 390'
BASE ANHYDRITE	**+ 357'**	+ 354'	+ 358'
TOPEKA	**-1003'**	-1004'	- 994'
HEEBNER SHALE	**-1220'**	-1222'	-1210'
TORONTO	**-1246'**	-1244'	-1232'
LANSING	**-1259'**	-1259'	-1247'
STARK	**-1437'**	N/A	N/A
BASE KANSAS CITY	**-1471'**	-1473'	-1458'

SUMMARY:

The No. 2 Quint 'C' was under geological supervision from 3100' to 3650' RTD. Due to the lack of reservoir development and negative results of three drill stem tests, it was recommended that this well be plugged and abandoned.

Respectfully submitted,

Todd E. Morgenstern