

COPY

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GEOLOGICAL REPORT



RUSSELL OIL, INC.

NO. 1-13 AMYX
720' FSL & 1470' FEL
Section 13-10S-23W
Graham County, Kansas

15-065-230860000

Todd E. Morgenstern
Petroleum Geologist
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P.O. Box 251
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OPERATOR: Russell Oil, Inc.

WELL: Amyx #1-13
API # 15-065-23,088-00-00

LOCATION: 720' from the South Line
1470' from the East Line
Section 13-10S-23W
Graham County, Kansas

FIELD: Wildcat

CONTRACTOR: Shields Drilling Inc. (Rig #1)

DRILLING COMMENCED: 09-01-2005

DRILLING COMPLETED: 09-08-2005

DRILLING TIME: One (1) foot drilling time was recorded
from 3200' to 4100' RTD.

SAMPLES: Samples were saved and examined from 3350'
to 4100' RTD.

ELEVATIONS: 2353' Ground Level 2358' Kelly Bushing

MEASUREMENTS: All depths are measured from **2358' K.B.**

CASING RECORD: 8 5/8" Surface Casing set @ 234' with 175 sxs. 60/40 poz

FORMATION TESTING: One (1) test was run by Trilobite Testing, Inc.
Joe Ramsey, Tester

MUD: Mud-Co. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech (CNL-CDL, DIL, MEL, & BHCS)

PRODUCTION: D & A

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FORMATION TOPS:

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	N/A	1902'	+ 456'
BASE ANHYDRITE	N/A	1941'	+ 417'
TOPEKA	3403'	3401'	-1043'
HEEBNER SHALE	3622'	3619'	-1261'
TORONTO	3645'	3641'	-1283'
LANSING	3660'	3656'	-1298'
MUNCIE CREEK	3785'	3783'	-1425'
STARK SHALE	3847'	3846'	-1488'
BASE KANSAS CITY	3887'	3886'	-1528'
MARMATON CHERT	3990'	3988'	-1630'
CONGLOMERATE SAND	4059'	4058'	-1700'
ROTARY TOTAL DEPTH	4100'	*****	-1742'
LOG TOTAL DEPTH	*****	4100'	-1742'

SAMPLE DESCRIPTIONS AND TEST DATA:

(All depths have been corrected to log measurements.)

TOPEKA:

3436-3444 Limestone, gray to cream, finely crystalline, microfossil, with fair visible interparticle porosity, chalky in part, no shows of oil were noted.

3568-3578 Limestone, tan, buff and gray, fine to medium crystalline, fossiliferous, with fair visible porosity, no shows of oil were noted.

3601-3611 Limestone, as above, buff, chalky, with good visible interfossiliferous porosity, no shows of oil were noted.

TORONTO:

3641-3647 Limestone, buff and tan, finely crystalline, dense, fossiliferous and slightly oolitic, chalky, with poor to fair visible interparticle porosity, no shows of oil were noted.

LANSING:

3658-3664 Limestone, gray and tan, finely crystalline, slightly fossiliferous and oolitic, very chalky, with poor visible porosity, no shows of oil were noted.

3694-3698 Limestone, tan and buff, finely crystalline, slightly oolitic, with trace of vugular porosity, abundant pyrite crystals, trace of very heavy black dead oil, very chalky, no odor.

3707-3718 Limestone, gray and tan, finely crystalline, dense, oolitic, slightly fossiliferous, with poor visible porosity, no shows of oil were noted.

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- 3733-3736 Limestone, gray, dense, fossiliferous, no shows of oil were noted.
- 3742-3750 Limestone, white and gray, finely crystalline, slightly oolitic and fossiliferous, with fair visible interparticle porosity, slightly chalky, with trace of spotted staining, no show of free oil, no odor. (Covered by D.S.T. No. 1)

FORMATION TEST NO. 1			
Lansing (70' & 90')			
Tested from 3723'-3753'			
		I.H.P.	1797#
<i>Weak blow building to 7"</i>	45 min.	I.F.P.	15# -101#
<i>No blow-back</i>	45 min.	I.S.I.P.	677#
<i>Fair blow building to 5"</i>	45 min.	F.F.P.	102# -169#
<i>No blow-back</i>	45 min.	F.S.I.P.	670#
		F.H.P.	1783#
(SEE PRESSURE CHARTS AT END OF REPORT)			
RECOVERY:	3' Oil Cut Muddy Water		
	310' Muddy Water		
	313' Total Liquid Recovery		
TEMPERATURE:	94*		
CHLORIDES:	35,000 ppm (Recovery) 3,500 ppm (System)		

- 3756-3761 Limestone, cream and gray, finely crystalline, oolitic and slightly oolitic, with fair visible pinpoint porosity, slightly chalky, no shows of oil were noted.
- 3796-3802 Limestone, tan and buff, dense, finely crystalline, slightly fossiliferous, with fair visible porosity, no shows of oil were noted.
- 3818-3824 Limestone, gray and white, finely crystalline, slightly oolitic, chalky in part, with poor visible porosity, no shows of oil were noted.
- 3856-3864 Limestone, white and gray, finely crystalline, oolitic and slightly fossiliferous, with trace of interparticle porosity, slightly chalky, with dark spotted dead staining, no show of free oil, no odor.
- 3878-3884 Limestone, white, gray and buff, dense, finely crystalline, slightly fossiliferous, chalky in part, no shows of oil were noted.

MARMATON CHERT:

- 3988-4015 Chert, orange, tan and vari-colored, translucent, no shows of oil or odor.

CONGLOMERATE SAND:

- 4058-4064 Sandstone, tan and brown, fine to medium grained, subangular, friable in part, with poor to fair visible porosity, with some dead appearing oil, no show of free oil, no odor.

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STRUCTURAL COMPARISON:

	Russell Oil Amyx #1-13 720' FSL & 1470' FEL Sec. 13-10S-23W D&A	Burch Drilling Co. McVey Est. #1 NW-NW-NE Sec. 24-10S-23W D&A	Kimbark Oil Co. Moore #1 NE-NE-SW Sec. 13-10S-23W D&A
ANHYDRITE	+ 456'	n/a	+ 456'
BASE ANHYDRITE	+ 417'	n/a	n/a
TOPEKA	-1043'	n/a	n/a
HEEBNER SHALE	-1261'	-1254'	-1276'
TORONTO	-1283'	-1276'	-1299'
LANSING	-1298'	-1290'	-1313'
BASE KANSAS CITY	-1528'	n/a	-1542'

SUMMARY:

The Amyx #1-13 was under geological supervision from 3300' to 4100' RTD. Due to the lower structural position, lack of commercial shows, and negative results of D.S.T. No. 1, it was decided to plug and abandon this well.

Respectfully submitted,


Todd E. Morgenstern

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