

# GEOLOGICAL REPORT

DRILLING TIME

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SAMPLE LOG

COMPANY Russell Oil, Inc.  
LEASE Russell-Dell UNIT  
WELL NO. 1  
LOCATION 2610' FNL + 990' FWL  
SEC 35 TWN 10S RNG 34W  
COUNTY THOMAS STATE KANSAS  
POOL UNNAMED  
API NO. 15-193-20808-00-00

ELEVATIONS

KB 3236  
DF \_\_\_\_\_  
GL 3226

MEASUREMENT FROM

Top Kelly Bushing

PIPE STRAP 4333'

1.31' long to  
Pipe Board

CONTRACTOR HD Drilling Rig #2  
COMMENCED AUGUST 11, 2011  
COMPLETED AUGUST 22, 2011  
RTD AUGUST 21, 2011  
MUD CHEMICAL, MUD-CO, INC.  
SAMPLES FROM 3800' TO 4830'  
DRILLING TIME FROM 3800' TO 4830'  
SUPERVISION FROM 3800' TO 4830'  
GEOLOGIST STEVEN D. ANGLE

CASING RECORD

SURFACE New 8 7/8"

23" SET @ 267' w/

175xx COMM - 2 3/8"

3% CC. CDC

PRODUCTION NONE

DRY & Abandoned

REMARKS RIG ON 10' SUB. GA + 10' = KB.

DIAMETER 270' - 1/4", 4333' - 1/4", 4741' - 1".

All formation tops, zones of interest, porosity, shows and sample time lag are based from the top of Kelly Bushing measurements. Any corrections in measurements during the drilling of this well have been incorporated into this report.

ORIGINAL

Sincerely,

COPY

Steven D. Angle  
W.C.C.

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FORMATION TOPS

DATUM ELEVATION 3236 113

FORMATION	SAMPLE	ELOG	DATUM	WELL A	WELL B
Amber Shale		2712'	+ 524		
Base/Amber Shale		2740'	+ 496		
Top Rock		3895'	- 659		
Amber Shale		4111'	- 875		
Toronto		4129'	- 893		
Lansing-KC		4152'	- 916		
Stark Shale		4376'	- 1140		
Base-KC		4458'	- 1222		
Marathon		4482'	- 1246		
Panhandle		4561'	- 1325		
MYRIC STATION		4598'	- 1362		
Fert Scott		4620'	- 1384		
Cherokee Shale		4657'	- 1415		
Atoka hm		4732'	- 1496		
Basal Penn Sd		4757'	- 1521		
Mississippi		4775'	- 1539		
Rotary Total Depth		4830'	- 1594		
LOG TOTAL DEPTH		4832'	- 1596		

CORRELATION WELLS

A.  
B.

DAILY PENETRATION

DEPTH	@	TIME	ON	DATE
UNDER SURFACE				
1691'		11:45 A.M.		8-12-11
2877'		7:00 A.M.		8-13-11
3540'		7:00 A.M.		8-14-11
3911'		7:00 A.M.		8-15-11
4152'		7:00 A.M.		8-16-11
4333'		7:00 A.M.		8-17-11
4456'		7:00 A.M.		8-18-11
4615'		7:00 A.M.		8-19-11
4741'		7:00 A.M.		8-20-11
4830'		8:17 P.M.		8-21-11

MUD RECORD

DEPTH	TYPE & AMOUNTS
Surface	74 Gal. 14 1/2 x hulls, 1/2 5x lime.
2590'	60 5x Gal., 4 5x Soda Ash, 2 5x caustic Soda, 1 5x lignite, 4 1/2 5x Dris Pac, 3 1/2 5x hulls.
3290'	40 5x Gal., 13 5x hulls
3645'	194 5x Gal., 7 5x lignite, 9 5x caustic Soda,
4152'	16 5x Soda Ash, 4 1/2 5x Dris Pac, 18 5x hulls.
4333'	55 5x Gal., 2 5x caustic Soda, 1/2 5x lignite, 2 5x Soda Ash, 1/2 5x Dris Pac, 23 5x hulls.
4456'	1/2 5x Dris Pac.
	27 5x Gal., 3 5x Soda Ash, 1/2 5x lignite,
	3 5x caustic Soda, 1/2 5x Dris Pac, 18 5x hulls.
	30 5x Gal., 3 5x Soda Ash, 2 5x caustic Soda,
	1/2 5x Dris Pac, 1 5x lignite.

**DRILLING INFORMATION**

DRILLING CONTR: AD Drilling Rig # 2  
 RIG PHONE: 785-656-2725  
 TOOL PUSHER: Doug Roberts  
 PHONE: 620-617-1716  
 DRILLERS - DAYLIGHT TOUR: Gilbert Smith  
 EVENING TOUR: Carlos Martinez  
 MORNING TOUR: Robert Foster  
 SPUD DATE: 8-12-11 DATE OF RTD: 8-21-11  
 SITE DIRECTIONS: Approx. 1 mi. N. of Monument - 2.5 mi. N. of  
North to County line - Approx. 3 west, 1/2 N. East into.  
 SURFACE PIPE: New 8 3/8" 23# set @ 267' w/ 195' sx  
Comm. class A, 2% cel + 3% cc, Cement Diel Brewhite.  
 WELL STATUS: Plugged + Abandoned  
 PRODUCTION CASING: NONE

DRILLING MUD CONTR: Med-Co, Eng: Reid Atkins  
Ph.  
 DRILL STEM TESTING: Tribolite Testing, Isaac McManney,  
Ph. 785-639-2167  
 CEMENTING:

ELECTRIC LOGGING: Log-Tech, Ann Dae/ Insulation,  
Dual Compensated Porosity log + Micro  
Resistivity LOG. Eng: R. Barnhart

**BIT RECORD**

NO.	PURPOSE	SIZE	MAKE	TYPE	IN	OUT	JETS	PUMP
1	Surface	12 1/4	JZ		0	270'	4-1/4"	500#
1	Bore	7 7/8	JZ	OX20	270'		3-1/4"	600#

DST NO. 1 INTERVAL 4303 TO 4333 TYPE Anchor 30' TIMES 60-30-60-30  
 Blow: Built to 4" blow, SI, No Return, and Built to 3" blow.  
 SI, No return blow.  
 Rec: 20' mud cut water (40% mud, 60% water) + 14.5' of water.  
 I/F/F 19-72 SIF/SFF 75-95 IS/F/SI 1087-1059 IH/FH 2183-2082 Temp: 126°F

DST NO. 2 INTERVAL 4379 TO 4456 TYPE Anchor 77' TIMES 60-30-60-30  
 Blow: Bottom of bucket in 29 minutes, SI, weak surface return blow.  
 2nd - Bottom of bucket in 46 minutes, SI, Built to 4" return blow.  
 Rec: 58' gas cut oil (10% gas, 90% oil), 377' oil mud cut water (5% oil, 65% water, 10% mud), 123' mud cut water (90% water, 10% mud), 122' of gas in pipe.  
 I/F/F 26-138 SIF/SFF 141-203 IS/F/SI 936-919 IH/FH 2225-2142 Temp: 125°F

DST NO. 3 INTERVAL 4656 TO 4741 TYPE Anchor 85' TIMES 60-30-60-30  
 Blow: B.O.B. in 54 minutes, No return blow, and Built to 7"  
 blow, no return blow.  
 Rec: 183' gas cut water (10% gas, 90% oil, 90% water, 10% mud), 122' oil cut gassy mud/water (20% gas, 10% oil, 40% water, 30% mud), 123' gas cut oily mud/water (10% gas, 20% oil, 50% water), all 30,000 P.M.  
 I/F/F 30-146 SIF/SFF 171-219 IS/F/SI 931-871 IH/FH 2365-2310 Temp: 128°F







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