

GEOLOGICAL REPORT

DRILLING TIME

S.D. ANGLE - COPYRIGHT 2011

SAMPLE LOG

COMPANY Russell Oil, Inc.
LEASE Addington
WELL NO. 1-1
LOCATION 1080' F5h + 330' F4h
SEC 1 TWN 165 RNG 15W
COUNTY Barton STATE Kansas
POOL Galatia North
API NO. 15-009-25592-00-00

ELEVATIONS

KB 1945

DF _____

GL 1938

MEASUREMENT FROM

Top of KB

PIPE STRAP @ 3260'
.83' short of
PIPE BOARD.

CONTRACTOR Southwind Rig #4
COMMENCED July 14, 2011
COMPLETED July 23, 2011
RTD July 22, 2011
MUD Chemical, MUD-CO, INC.
SAMPLES FROM 2700' TO 3485'
DRILLING TIME FROM 2700' TO 3485'
SUPERVISION FROM 2700' TO 3485'
GEOLOGIST STEVEN D. ANGLE

CASING RECORD

SURFACE New 8 5/8"
Set @ 946' w/ 375
5x conn + 276 gal
370 cc. CDC.

PRODUCTION None
Dry + Abandoned

REMARKS Rig on 7' substructure.
KB = BH + 7'

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,

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W.B.C.

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FORMATION TOPS

DATUM ELEVATION 1945 KB

FORMATION	SAMPLE	F LOG	DATUM	WELL A	WELL B
Topok		2873'	- 928		
Hebner		3101'	- 1156		
Tonvntb		3119'	- 1174		
Douglass		3136'	- 1191		
Kansing/KC		3164'	- 1219		
Base/KC		3396'	- 1451		
Arbuckle		3483'	- 1538		
Roby/TM/Dayth.		3485'	- 1540		

CORRELATION WELLS

A.	
B.	

DAILY PENETRATION

DEPTH	@	TIME	ON	DATE
UNDER Surface		1:00 A.M.		7-16-2011
1800'		7:00 A.M.		7-16-2011
2872'		7:00 A.M.		7-17-2011
2940'		7:00 A.M.		7-18-2011
3128'		2:00 A.M.		7-19-2011
3263'		7:00 A.M.		7-20-2011
3320'		7:00 A.M.		7-21-2011
3397'		7:00 A.M.		7-22-2011
3485'		11:43 P.M.		7-22-2011

MUD RECORD

DEPTH	TYPE & AMOUNTS
2042'	121 5X Gel, 115X Soda Ash, 55X caustic Soda, 5 5X lignite, 1 2/3 5X Dvns Pac.
2740'	24X Gel, 45X Soda Ash, 25X caustic Soda, 25X lignite, 2/3 5X Dvns Pac.
3228'	11 5X Gel, 15X Soda Ash, 15X caustic Soda, 1/2 5X lignite, 1/2 5X Dvns Pac.
3295'	30 5X Gel, 25X caustic Soda, 15X Soda Ash, 1/2 5X lignite, 1/2 5X Dvns Pac.
3397'	145X Gel, 15X Soda Ash, 25X caustic Soda, 1/2 5X lignite, 15X Dvns Pac.
3490'	185X Gel, 35X Soda Ash, 25X caustic Soda, 1 5X Dvns Pac.

DRILLING INFORMATION

DRILLING CONTR: Southwind Drilling Rig #4

PHONE:

DRILL PUSHER: Robert A. Stevenson

DRILLER:

DRILLERS - DAYLIGHT TOUR: Ricort Babcock

EVENING TOUR: Jonathan Ames

MORNING TOUR: Shawn EPP

START DATE: 7-14-2011 DATE OF RTD: 7- -2011

DRILL DIRECTIONS: 1 mile South Milkberry, N.E. 2 West
& South, East into location.

DRILL PIPE: RAN 22 JTS, New 23# 8 1/2", SCT @
46' w/375 ex Common + 20 gal, 3% cc Cement Cmc.

WELL STATUS:

REDUCTION CASING:

DRILLING MUD CONTR: MUD-Co, Chemical mud

DRILL STEM TESTING: Triplicate, Ray Schwinger, et al

WELL # 785-650-9628

CEMENTING: Surface Bq Quality Cementing.

ELECTRIC LOGGING: ADG-Tech, Ran Dual Induction,
Neenerisitivity + Dual Compensated Porosity,
Operator: B. Becker

BIT RECORD

PURPOSE	SIZE	MAKE	TYPE	IN	OUT	JETS	PUMP
Surface	12 1/4"	Reed	HP11	0	946	3/15'	600#
Bore	7 7/8"	Reed	5-52	946	3485	14.445'	750#

DST NO. 1 INTERVAL 3041 TO 3100 TYPE Archer 59' TIMES 30 - 30 - 30 - 30
 Blow - Dieck in 25 minutes. ST - No return blow. 2nd.
 Rec: surface blow - Dieck in 20 minutes. ST No return blow.
 IF/FF 20 - 34 SIF/FFF 44 - 57 IS/FSI 910 - 862 IH/FH 1459 - 1451 Temp: 101°f

DST NO. 2 INTERVAL 3096 TO 3228 TYPE Archer 132' TIMES 30 - 30 - 30 - 30
 Blow: weak blow - Dieck in 25 minutes. ST - No return blow. 2nd surface
 Rec: 20' of mud
 IF/FF 23 - 33 SIF/FFF 33 - 33 IS/FSI 116 - 76 IH/FH 1463 - 1447 Temp: 100°f

DST NO. 3 INTERVAL 3228 TO 3274 TYPE Archer 46' TIMES 60 - 30 - 60 - 30
 Blow: weak to strong - B.O.B. in 6 minutes. ST - No return blow. 2nd
 Rec: 960' Gas in Hpc, 90' slightly oil cut mud (19% oil - 99% mud), 60' water
 Mud w/ show of oil (40% water - 60% mud) Chibides 63000 P.M.
 IF/FF 23 - 62 SIF/FFF 68 - 79 IS/FSI 325 - 302 IH/FH 1526 - 1519 Temp: 100°f

