HERB DEINES
CONSULTING GEOLOGIST

108 W. 35th ST.
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HAYS, KS 67601

COMPANY Cannie Exploration & Development
WELL John Roth #C-2
FIELD
COUNTY Barton STATE Kansas
LOCATION: 2066' FSL & 1880' FWL / SW/4
SEC 34 TWP 19S RGE 11W

Elevations: KB 1780' DF GL 1772'

Logging by: Log-Tech
1. Dual Induction log
2. Dual Compensated Porosity log
3. Micro Resistivity log

Contractor Southwind Drlg Inc. Rig #6
Commenced 9-08-2011 Completed 9-16-2011
RTD 3400' LTD 3399'
Surface Casing 8 5/8" set to 257.57' w/175 sxs Common 2% gel 3% CC
Production Casing Used 5 1/2" set to 3394' w/125 sacks
RatHole w/30 sxs
Drilling Time 2500' - RTD Samples 2750' - RTD

Daily Penetration Rate

Date	Depth	Activity
9-09-11	500'	Spud set SP
9-10-11	1740'	Drlg
9-11-11	2500'	Drlg
9-12-11	3085'	Drlg DST#1
9-13-11	3316'	Drlg DST#2, DST#3
9-14-11	3330'	Drlg DST#4, Logs
9-15-11	3400'	RTD DST#5, Run Csg
9-16-11	3400	

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REMARKS Recommendation to run production based on Results of DST #5.

Herb Deines

Bit Record

Make & Type	Serial No.	Nozzles	Depth In	Depth Out	Hours

Formation	Sample	Log	Datum	*
Anhydrite Top		518	+ 1262	
Anhydrite Base		541	+ 1239	
Topeka	2637	2638	- 858	
Heebner Shale	2904	2902	- 1122	
Toronto	2921	2919	- 1139	
Douglas Shale	2935	2934	- 1154	
Brown Lime - Iatan	3028	3029	- 1249	
LKC	3046	3048	- 1268	
BKC	3296	3296	- 1516	
Arbuckle	3313	3309	- 1529	
RTD	3400			
LTD		3399	- 1619	

*Structural Position to:

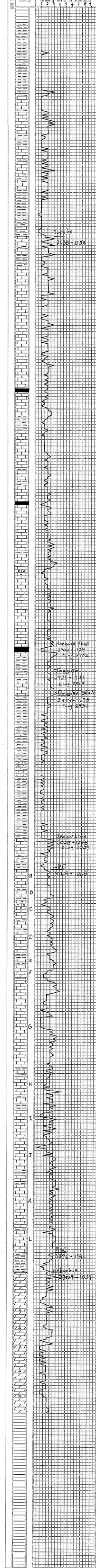
LEGEND

Anhydrite, Salt, Sandstone, Shale, Carb sh, Limestone, Ool. Lime, Chert, Dolomite

SCALE " = 100'

LOG 7703

Mixing | Drilling time in minutes 1 2 3 4 5 6 7 8 9 | DEPTH | Sample Description | Remarks, drill stem tests, etc.



Depth: 2500, 10, 20, 30, 40, 50, 60, 70, 80, 90, 2600, 10, 20, 30, 40, 50, 60, 70, 80, 90, 2700, 10, 20, 30, 40, 50, 60, 70, 80, 90, 2800, 10, 20, 30, 40, 50, 60, 70, 80, 90, 2900, 10, 20, 30, 40, 50, 60, 70, 80, 90, 3000, 10, 20, 30, 40, 50, 60, 70, 80, 90, 3100, 10, 20, 30, 40, 50, 60, 70, 80, 90, 3200, 10, 20, 30, 40, 50, 60, 70, 80, 90, 3300, 10, 20, 30, 40, 50, 60, 70, 80, 90, 3400

Remarks:

Mud System - Gel Chemical
Andy's Mud & Chemical

Slope Survey 260' ¾°

Displace hole w/gel chemical system

Short Trip 3040'

DST #1 3046'-3085'
15-45-45-60
Rec: 400' GIP
40' SOCM - 11% G, 1% O, 78% M, 10% W
CL⁻ 10,000 ppm
ISIP: 561#
FSIP: 487#
FP: 47-43, 43-53
1st Open: Fair blow BOB 10 min
No blow back
2nd Open: Good blow BOB 30 sec
No blow back

DST #4 Straddle Test
15-30-15-30
Rec: 110' Drlg mud
Tool plugged - pulled and reran DST #5

DST #5 Straddle Test
3090' - 3126'
45-45-30-30
Rec: GTS 24 min, GA 92 mcf
2925' Cln Gsy Oil - 20% G, 80% O
Gravity 41 corrected
ISIP: 768#
FSIP: 762#
FP: 721-749, 696-718
1st Open: Strong blow GTS 24 min
Fair blow back
2nd Open: Strong blow
Fair blow back

DST #2 3292'-3322'
30-45-30-40
Rec: 10' Sli Oil Spotted mud
ISIP: 57#
FSIP: 53#
FP: 38-38, 39-40
1st Open: Wk blow, Died 10 min
No blow back
2nd Open: No blow, Flushed Tool No help
No blow back

DST #3 3320'-3330'
15-45-15-0
Rec: 10' Oil spotted mud
ISIP: 188#
FSIP: —
FP: 25-27, 26-30
1st Open: weak blow - died 10"
No blowback
2nd Open: No blow, Flushed Tool No help