



Company: Raymond Oil Company, Inc
Lease: Michaelis #4

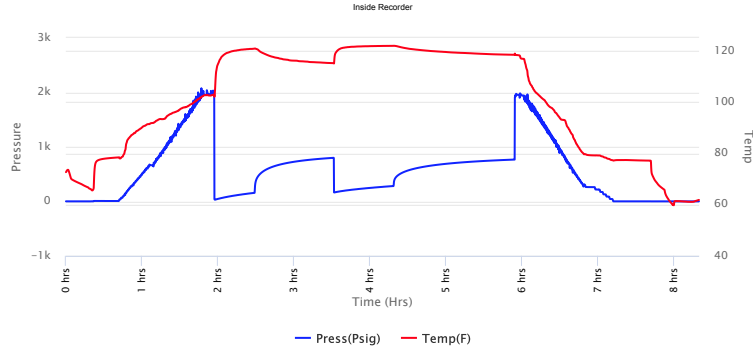
SEC: 3 TWN: 14S RNG: 32W
 County: LOGAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2823 GL
 Field Name: Rose Garden NW
 Pool: WILDCAT
 Job Number: 213

Operation:
 Uploading recovery & pressures

DATE
 October
01
 2018

DST #4 Formation: 220 Zone Test Interval: 4131 - 4150' Total Depth: 4150'
 Time On: 21:54 10/01 Time Off: 06:00 10/02
 Time On Bottom: 23:48 10/01 Time Off Bottom: 03:33 10/02

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
576'	Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 90
	Current Reading: 27.9" at 30 min	Current Reading: 0" at 60 min	Current Reading: 25.3" at 45 min	Current Reading: 0" at 90 min
	Max Reading: 27.9"	Max Reading: 0"	Max Reading: 25.3"	Max Reading: 0"



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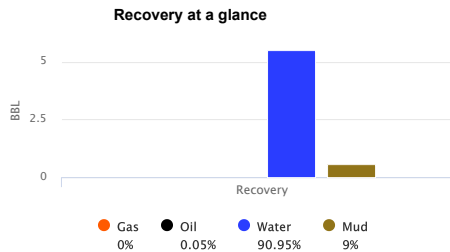
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Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBS					
31	0.31806	HMCW	0	1	54	45
558	5.72508	SLMCW	0	0	93	7

Total Recovered: 589 ft
 Total Barrels Recovered: 6.04314

Reversed Out
 NO

Initial Hydrostatic Pressure	1949	PSI
Initial Flow	31 to 156	PSI
Initial Closed in Pressure	796	PSI
Final Flow Pressure	164 to 281	PSI
Final Closed in Pressure	766	PSI
Final Hydrostatic Pressure	1947	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	3.8	%





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BUCKET MEASUREMENT:
 1st Open: 1/4" Blow. BOB in 9 1/4 mins.
 1st Close: NOBB
 2nd Open: 1" Blow. BOB in 16 1/2 mins
 2nd Close: NOBB

REMARKS:
 Tool Sample: 0% Gas 0% Oil 98% Water 2% Mud
 Ph: 7
 Measured RW: .31 @ 51 degrees °F
 RW at Formation Temp: 0.139 @ 122 °F
 Chlorides: 45,000 ppm



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Down Hole Makeup

Heads Up: 24.68 FT	Packer 1: 4126 FT
Drill Pipe: 4123.11 FT	Packer 2: 4131 FT
ID-3 1/4	Top Recorder: 4115.42 FT
Weight Pipe: FT	Bottom Recorder: 4135 FT
ID-2 7/8	Well Bore Size: 7 7/8
Collars: 0 FT	Surface Choke: 1"
ID-2 1/4	Bottom Choke: 5/8"
Test Tool: 33.57 FT	
ID-3 1/2-FH	
Jars	
Safety Joint	
Total Anchor: 19	
Anchor Makeup	
Packer Sub: 1 FT	

Perforations: (top): 2 FT
 4 1/2-FH
Change Over: 0 FT
Drill Pipe: (in anchor): 0 FT
 ID-3 1/4
Change Over: 0 FT
Perforations: (below): 16 FT
 4 1/2-FH



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Mud Properties

Mud Type: Chem **Weight:** 9.3 **Viscosity:** 54 **Filtrate:** 9.6 **Chlorides:** 2 ppm



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Gas Volume Report

1st Open				2nd Open			
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D

