



**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

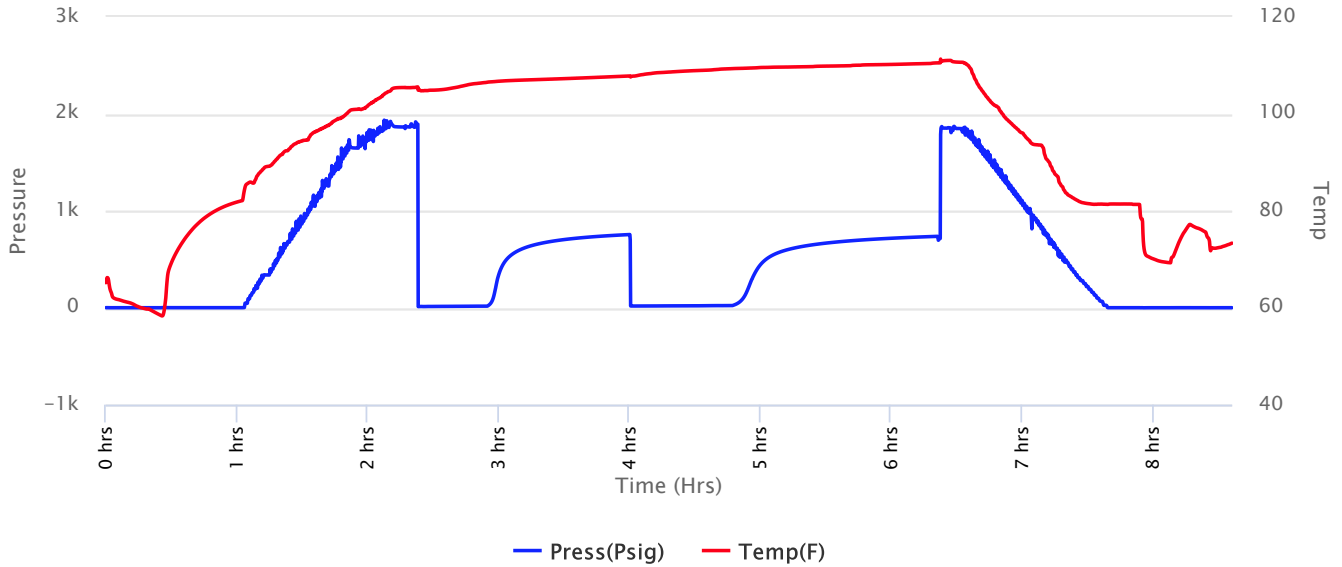
**DATE**  
September  
**29**  
2018

**DST #1**      **Formation: 35 ft zone**      **Test Interval: 3876 - 3892'**      **Total Depth: 3892'**  
Time On: 09:58 09/29      Time Off: 18:20 09/29  
Time On Bottom: 12:18 09/29      Time Off Bottom: 16:03 09/29

Electronic Volume  
Estimate:  
34'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 90
Current Reading: 1.9" at 30 min	Current Reading: 0" at 60 min	Current Reading: 1.3" at 45 min	Current Reading: 0" at 90 min
Max Reading: 1.9"	Max Reading: 0"	Max Reading: 1.3"	Max Reading: 0"

Inside Recorder





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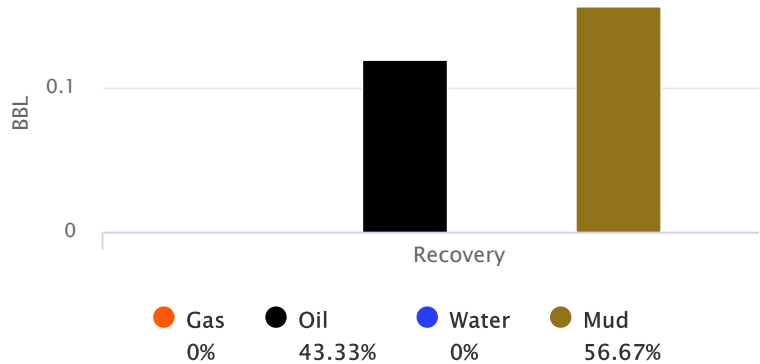
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1026	O	0	100	0	0
17	0.17442	SLOCM	0	10	0	90

Total Recovered: 27 ft  
Total Barrels Recovered: 0.27702

Reversed Out  
NO

Initial Hydrostatic Pressure	1864	PSI
Initial Flow	12 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>755</b>	<b>PSI</b>
Final Flow Pressure	18 to 23	PSI
<b>Final Closed in Pressure</b>	<b>736</b>	<b>PSI</b>
Final Hydrostatic Pressure	1869	PSI
Temperature	111	°F
Pressure Change Initial Close / Final Close	2.4	%

**Recovery at a glance**





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**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1 3/4 inch in 30 mins  
1st Close: NOBB  
2nd Open: WSB. Built to 1 1/4 inch in 45 mins  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 20% Oil 0% Water 80% Mud  
Gravity: 25.3 @ 60 °F



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**Down Hole Makeup**

<b>Heads Up:</b> 31.08 FT	<b>Packer 1:</b> 3871 FT
<b>Drill Pipe:</b> 3874.51 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3876 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3860.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3881 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 16	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 12 FT <i>4 1/2-FH</i>	



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## Mud Properties

**Mud Type: Chem**

**Weight: 9.1**

**Viscosity: 54**

**Filtrate: 7.2**

**Chlorides: 3000 ppm**



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**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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