



Company: Ritchie Exploration, Inc.

Lease: Anderson-Schwartz Trust #1

SEC: 32 TWN: 19S RNG: 30W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 2927 EGL
Field Name: Sutton Township
Pool: Infield
Job Number: 312

Operation:
Uploading recovery & pressures

DATE
March
11
2019

DST #4 **Formation: Myric Station-Johnson** **Test Interval: 4506 - 4610'** **Total Depth: 4610'**
Time On: 12:05 03/11 Time Off: 20:40 03/11
Time On Bottom: 14:45 03/11 Time Off Bottom: 17:45 03/11

Electronic Volume Estimate:
165'

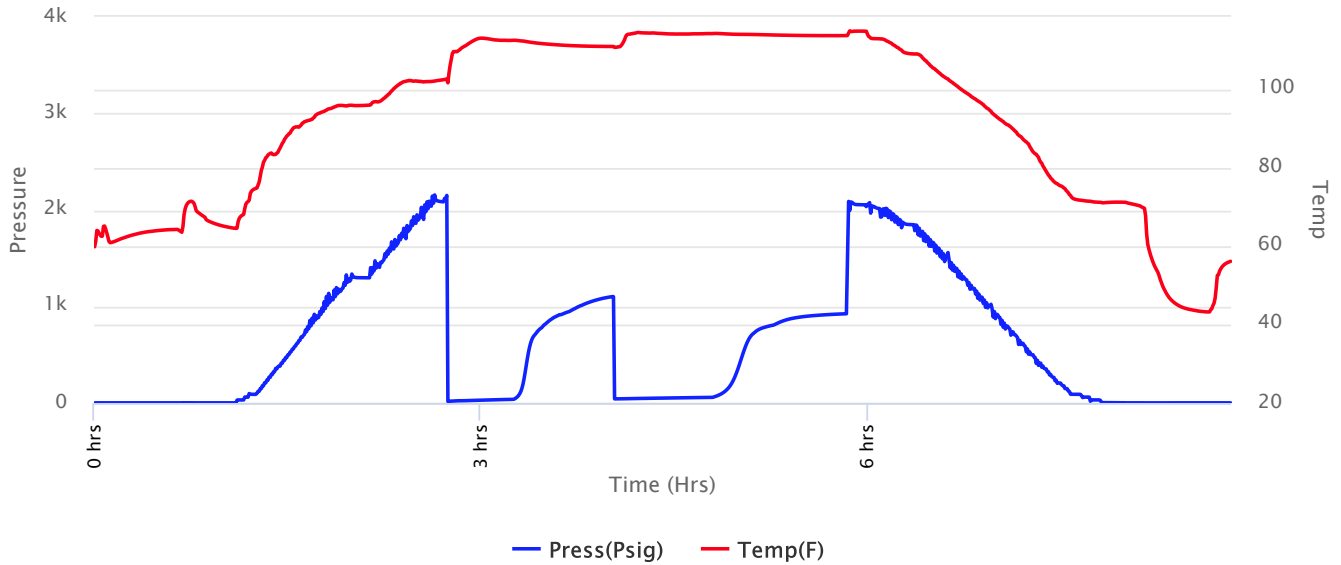
1st Open
Minutes: 30
Current Reading: 3.1" at 30 min
Max Reading: 3.1"

1st Close
Minutes: 45
Current Reading: 0" at 45 min
Max Reading: 0"

2nd Open
Minutes: 45
Current Reading: 1.7" at 45 min
Max Reading: 1.7"

2nd Close
Minutes: 60
Current Reading: 0" at 60 min
Max Reading: 0"

Inside Recorder





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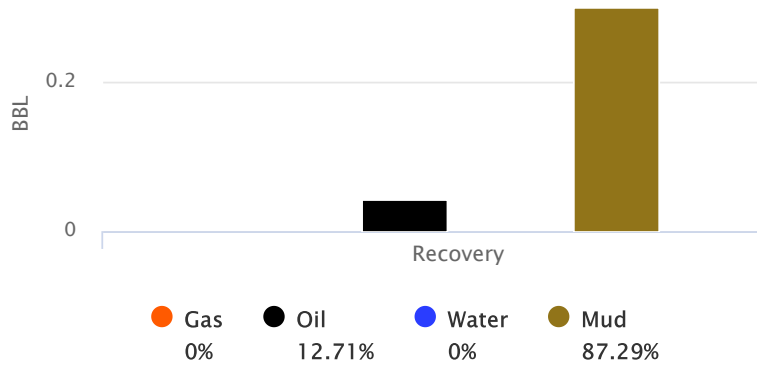
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0246	O	0	100	0	0
65	0.3198	SLOCM	0	6	0	94

Total Recovered: 70 ft
 Total Barrels Recovered: 0.3444

Reversed Out
 NO

Initial Hydrostatic Pressure	2083	PSI
Initial Flow	16 to 39	PSI
Initial Closed in Pressure	1101	PSI
Final Flow Pressure	42 to 58	PSI
Final Closed in Pressure	924	PSI
Final Hydrostatic Pressure	2082	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	16.1	%

Recovery at a glance



GIP cubic foot volume: 0



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BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/2" blow building to 3 1/4"

1st Close: No BB

2nd Open: Surface blow building to 1 1/2"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 8% Oil 0% Water 92% Mud



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Down Hole Makeup

Heads Up: 12.07 FT	Packer 1: 4500.68 FT
Drill Pipe: 4298.97 FT <i>ID-3 1/2</i>	Packer 2: 4505.68 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4490.1 FT
Collars: 186.21 FT <i>ID-2 1/4</i>	Bottom Recorder: 4575 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 104.32	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 62.32 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 36 FT <i>4 1/2-FH</i>	



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Mud Properties

Mud Type: Chemical **Weight:** 8.8 **Viscosity:** 58 **Filtrate:** 8.0 **Chlorides:** 3,000 ppm



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Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D