



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:
Test Complete

DATE
March
07
2019

DST #2 **Formation: Altamont "A&B"** **Test Interval: 4392 - 4450'** **Total Depth: 4450'**

Time On: 20:08 03/07 Time Off: 08:08 03/08
Time On Bottom: 23:37 03/07 Time Off Bottom: 02:48 03/08

Electronic Volume Estimate:
2023'

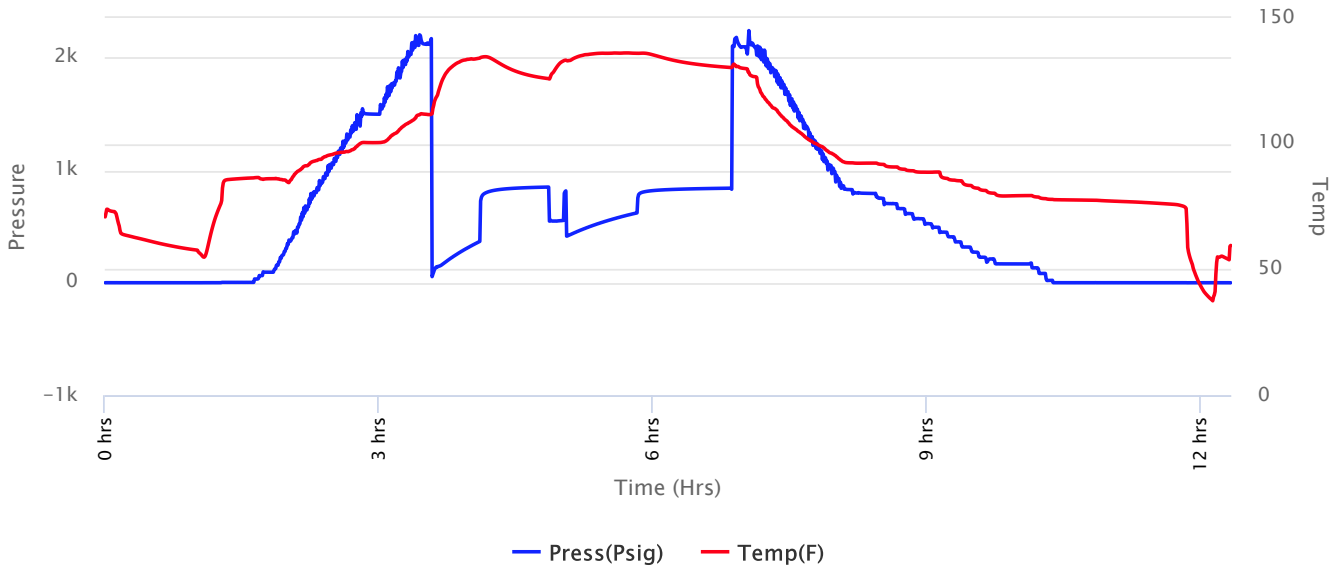
1st Open
Minutes: 30
Current Reading:
107.1" at 30 min
Max Reading: 107.1"

1st Close
Minutes: 56
Current Reading:
6.2" at 56 min
Max Reading: 6.2"

2nd Open
Minutes: 45
Current Reading:
73.7" at 45 min
Max Reading: 73.7"

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

Inside Recorder





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Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
485	6.90155	G	100	0	0	0
1345	19.13935	SLGCO	3	97	0	0
190	2.0872849	SLGCMCO	18	54	0	28
120	0.5904	SLMCSLGCO	3	95	0	2

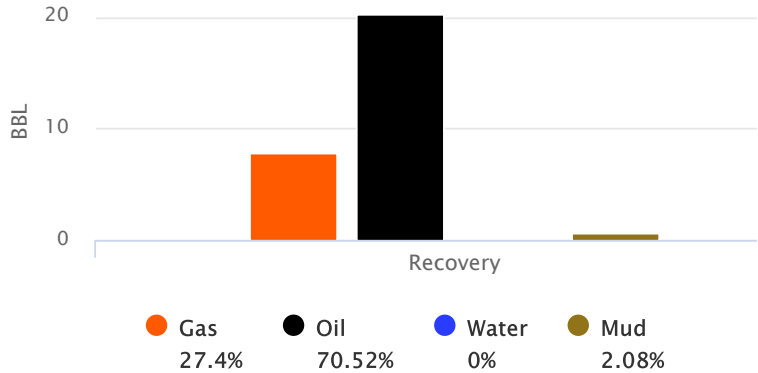
Total Recovered: 2140 ft

Total Barrels Recovered: 28.7185849

Reversed Out
 NO

Initial Hydrostatic Pressure	2121	PSI
Initial Flow	55 to 369	PSI
Initial Closed in Pressure	852	PSI
Final Flow Pressure	415 to 622	PSI
Final Closed in Pressure	842	PSI
Final Hydrostatic Pressure	2110	PSI
Temperature	137	°F
Pressure Change Initial Close / Final Close	1.2	%

Recovery at a glance



GIP cubic foot volume: 44.18136



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BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1 blow building to BOB 3 min.

1st Close: 7. BB

2nd Open: 1/4" blow building to BOB 5 min.

2nd Close: No BB

REMARKS:

The blocks were stuck so we couldn't turn tool on initial shut-in that's why extra time.

Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud

Gravity: 34.9 @ 60 °F



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Down Hole Makeup

Heads Up: 31.77 FT	Packer 1: 4386.81 FT
Drill Pipe: 4204.8 FT <i>ID-3 1/2</i>	Packer 2: 4391.81 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4376.23 FT
Collars: 186.21 FT <i>ID-2 1/4</i>	Bottom Recorder: 4430 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: 58.19	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): 31.19 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 21 FT <i>4 1/2-FH</i>	

