



Company: Ritchie Exploration, Inc.

Lease: Gerstberger Unit #1

SEC: 1 TWN: 15S RNG: 37W
County: LOGAN
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 3298 EST
Field Name: Wildcat
Pool: Wildcat
Job Number: 287

Operation:
Uploading recovery & pressures

DATE
November
27
2018

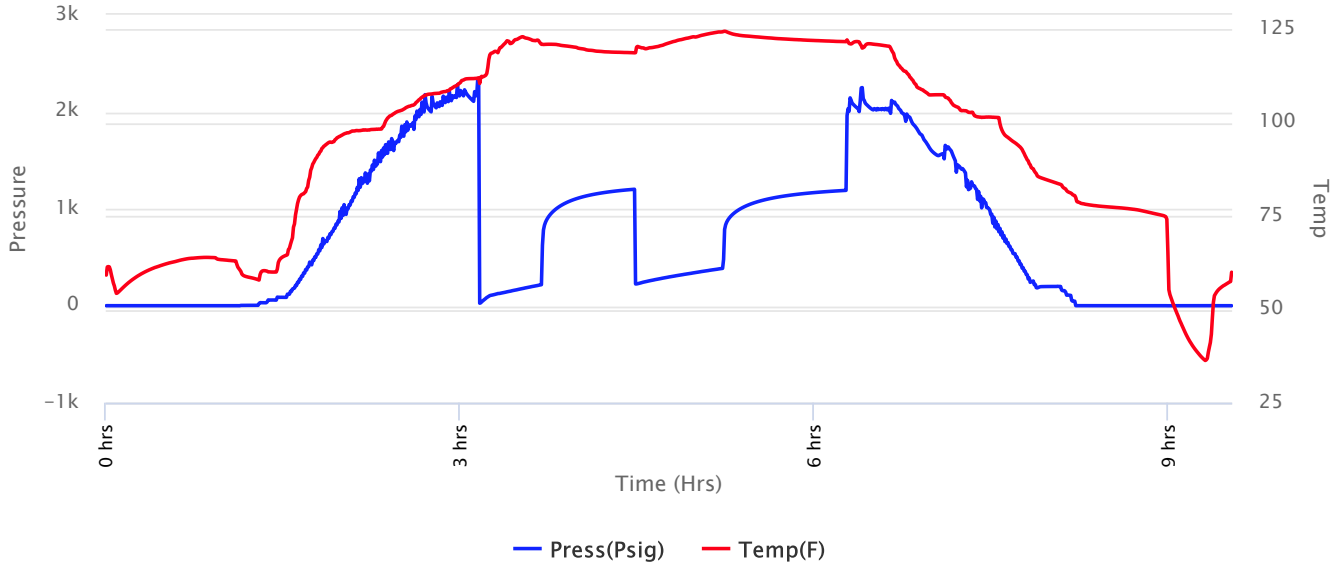
DST #1 **Formation: Altamont** **Test Interval: 4403 - 4487'** **Total Depth: 4487'**

Time On: 00:03 11/27 Time Off: 09:20 11/27
Time On Bottom: 03:08 11/27 Time Off Bottom: 06:08 11/27

Electronic Volume Estimate:
832'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 30.3" at 30 min	Current Reading: 0" at 45 min	Current Reading: 32.9" at 45 min	Current Reading: 0" at 60 min
Max Reading: 30.3"	Max Reading: 0"	Max Reading: 32.9"	Max Reading: 0"

Inside Recorder





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Recovered

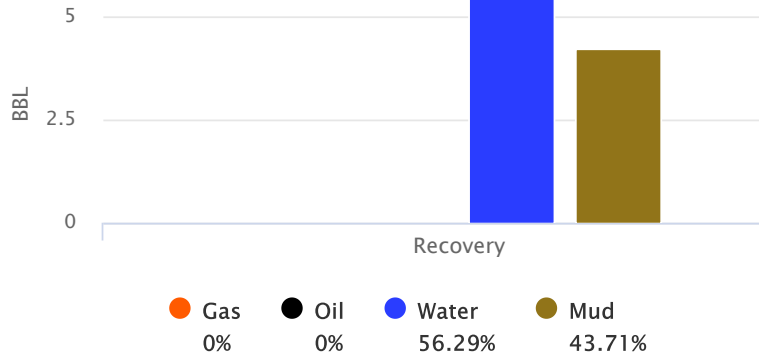
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
615	8.75145	HMCW	0	0	53	47
185	0.9702495	SLMCW	0	0	86	14

Total Recovered: 800 ft
 Total Barrels Recovered: 9.7216995

Reversed Out
 NO

Initial Hydrostatic Pressure	2165	PSI
Initial Flow	26 to 217	PSI
Initial Closed in Pressure	1201	PSI
Final Flow Pressure	225 to 385	PSI
Final Closed in Pressure	1190	PSI
Final Hydrostatic Pressure	2144	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	1.0	%

Recovery at a glance





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DST #1 Formation: Altamont Test Interval: 4403 - Total Depth: 4487'
4487'
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BUCKET MEASUREMENT:

1st Open: 1/2" blow building to BOB 10 1/2 min
1st Close: No BB
2nd Open: 1/4" blow building to BOB 15 min.
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 0% Oil 98% Water 2% Mud
Ph: 8.0
Measured RW: .32 @ 60 degrees °F
RW at Formation Temp: 0.162 @ 125 °F
Chlorides: 25,000 ppm



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Down Hole Makeup

Heads Up: 11.22 FT	Packer 1: 4397.74 FT
Drill Pipe: 4202.84 FT <i>ID-3 1/2</i>	Packer 2: 4402.74 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4387.16 FT
Collars: 178.55 FT <i>ID-2 1/4</i>	Bottom Recorder: 4474 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: 84.26	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 5 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 62.26 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 14 FT <i>4 1/2-FH</i>	



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Mud Properties

Mud Type: Chemical **Weight:** 9.6 **Viscosity:** 62 **Filtrate:** 8.9 **Chlorides:** 7,000 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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