



Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W
 County: SCOTT
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2952 EGL
 Field Name: Grigston SW Ext
 Pool: Infield
 Job Number: 358
 API #: 15-171-21251

Operation:
 Uploading recovery & pressures

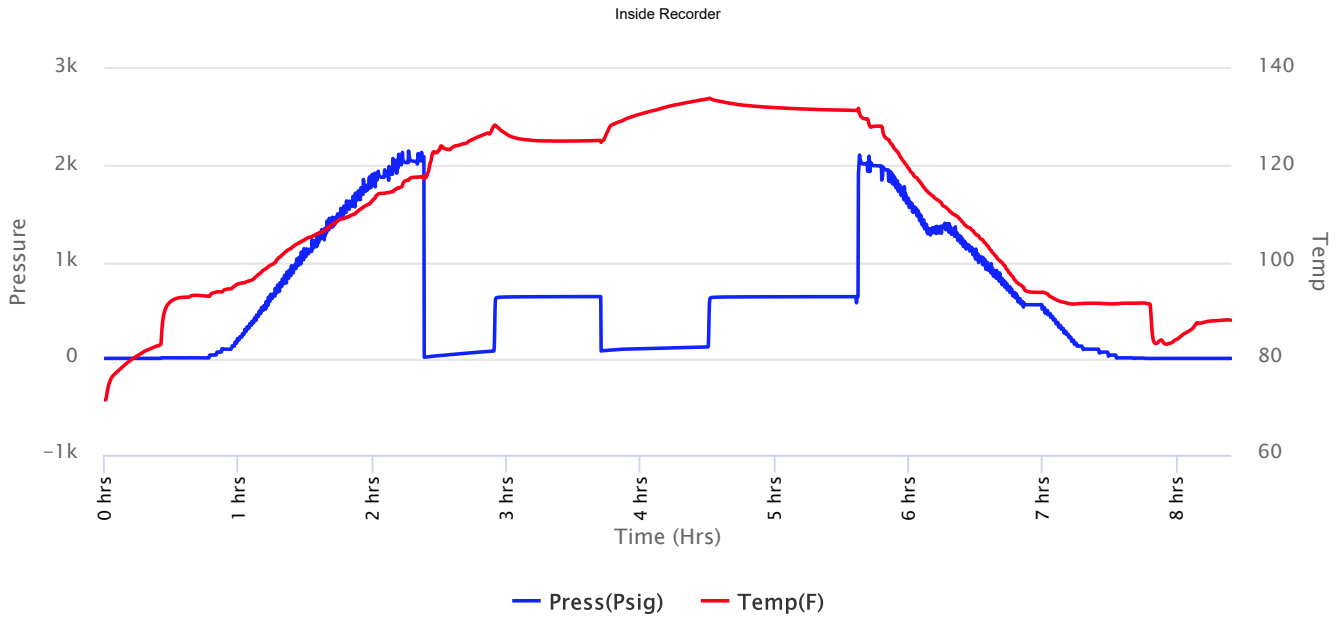
DATE
 June
20
 2019

DST #3 Formation: Lans J Test Interval: 4212 - 4238' Total Depth: 4237.60'

Time On: 10:50 06/20 Time Off: 19:00 06/20
 Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

Electronic Volume Estimate:
 205'

<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: 4" at 30 min	Current Reading: 0" at 45 min	Current Reading: 3.5" at 45 min	Current Reading: 0" at 60 min
Max Reading: 4"	Max Reading: 0"	Max Reading: 3.5"	Max Reading: 0"





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Recovered

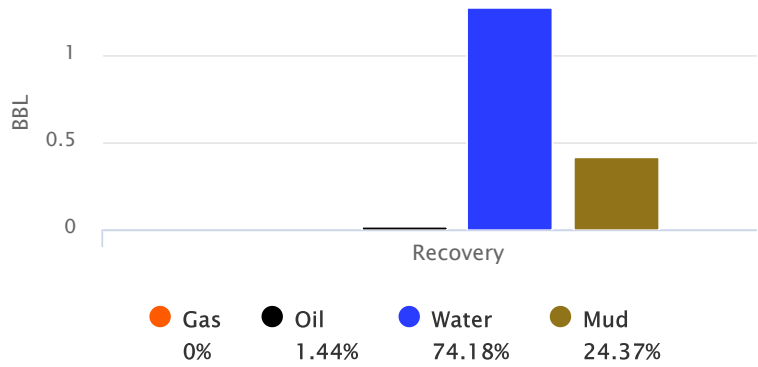
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
53	0.75419	SLOCHMCW	0	2	63	35
189	0.956879	SLOCSLMCW	0	1	83	16

Total Recovered: 242 ft
 Total Barrels Recovered: 1.711069

Reversed Out
 NO

Initial Hydrostatic Pressure	2041	PSI
Initial Flow	12 to 77	PSI
Initial Closed in Pressure	640	PSI
Final Flow Pressure	76 to 119	PSI
Final Closed in Pressure	639	PSI
Final Hydrostatic Pressure	2043	PSI
Temperature	134	°F
Pressure Change Initial Close / Final Close	0.1	%

Recovery at a glance



GIP cubic foot volume: 0



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BUCKET MEASUREMENT:

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

REMARKS:

Tool Sample: 0% Gas 10% Oil 60% Water 30% Mud
Ph: 7
Measured RW: .33 @ 80 degrees °F
RW at Formation Temp: 0.203 @ 134 °F
Chlorides: 22,000 ppm



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Down Hole Makeup

Heads Up: 20.52 FT	Packer 1: 4207 FT
Drill Pipe: 4013.85 FT <i>ID-3 1/2</i>	Packer 2: 4212 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4196.42 FT
Collars: 186.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 4214.6 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: 25	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 24 FT <i>4 1/2-FH</i>	



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Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 53 **Filtrate:** 7.2 **Chlorides:** 2500 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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