



# 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

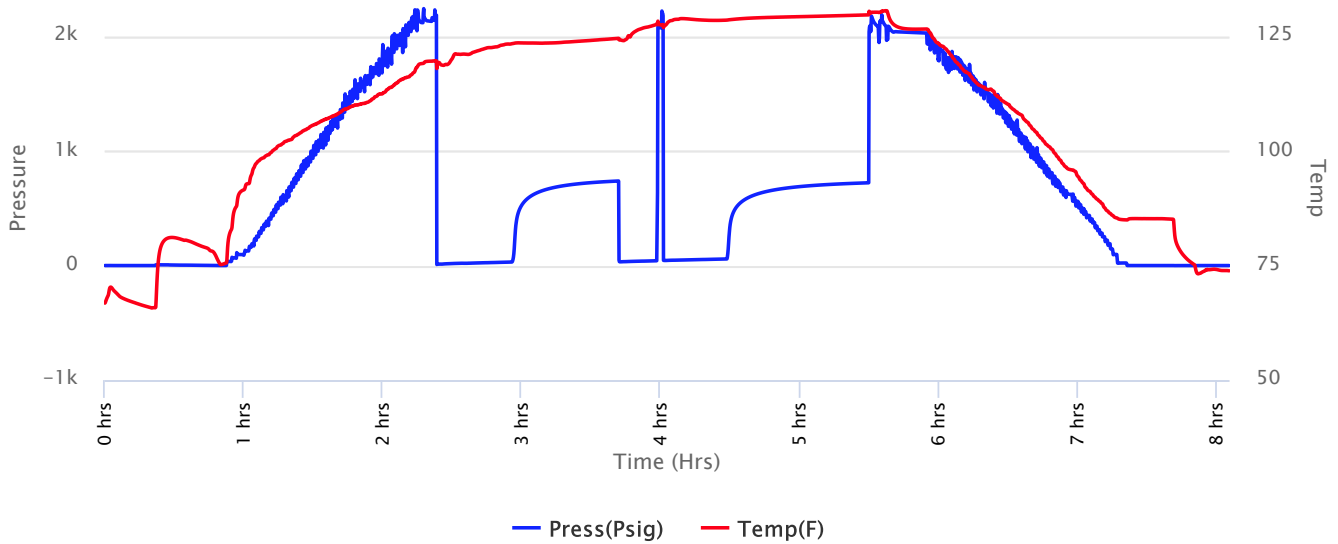
**DATE**  
June  
**22**  
2019

**DST #5**    **Formation: Altamont B**    **Test Interval: 4394 - 4412'**    **Total Depth: 4412'**  
Time On: 09:15 06/22    Time Off: 17:07 06/22  
Time On Bottom: 11:35 06/22    Time Off Bottom: 14:35 06/22

Electronic Volume Estimate:  
64'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 1.2" at 30 min	Current Reading: 0" at 45 min	Current Reading: .7" at 45 min	Current Reading: 0" at 60 min
Max Reading: 1.2"	Max Reading: 0"	Max Reading: .7"	Max Reading: 0"

Inside Recorder





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Recovered

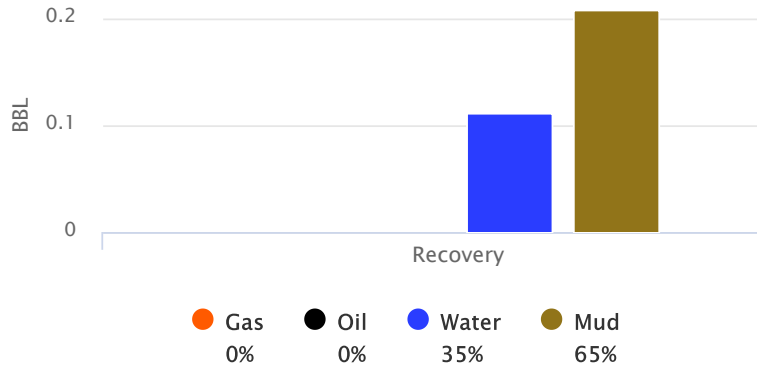
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
65	0.3198	HWCM	0	0	35	65

Total Recovered: 65 ft  
 Total Barrels Recovered: 0.3198

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	2131	PSI
Initial Flow	9 to 33	PSI
<b>Initial Closed in Pressure</b>	<b>738</b>	<b>PSI</b>
Final Flow Pressure	33 to 59	PSI
<b>Final Closed in Pressure</b>	<b>723</b>	<b>PSI</b>
Final Hydrostatic Pressure	2132	PSI
Temperature	130	°F
Pressure Change Initial Close / Final Close	2.1	%

**Recovery at a glance**



GIP cubic foot volume: 0



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**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1 inch in 30 mins.  
1st Close: NOBB  
2nd Open: No Blow. Flushed tool, Built to 3/4 inch blow in 45 mins  
2nd Close: NOBB

**REMARKS:**

Flushed tool 20 mins into second opening.

Ended Open shutting hydro tool on the flush causing the middle hydro stat on final opening.

Tool Sample: 0% Gas 2% Oil 30% Water 68% Mud

Ph: 8

Measured RW: .5 @ 69 degrees °F

RW at Formation Temp: 0.277 @ 130 °F

Chlorides: 16,000 ppm



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### Down Hole Makeup

<b>Heads Up:</b> 25.17 FT	<b>Packer 1:</b> 4389 FT
<b>Drill Pipe:</b> 4200.5 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4394 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Packer 3:</b> 4412 FT
<b>Collars:</b> 186.1 FT <i>ID-2 1/4</i>	<b>Top Recorder:</b> 4378.42 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Bottom Recorder:</b> 4396 FT
<b>Total Anchor:</b> 18	<b>Below Straddle Recorder:</b> 4413 FT
<b>Anchor Makeup</b>	<b>Well Bore Size:</b> 7 7/8
<b>Packer Sub:</b> 1 FT	<b>Surface Choke:</b> 1"
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	<b>Bottom Choke:</b> 5/8"
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 17 FT <i>4 1/2-FH</i>	
<b>STRADDLE</b>	
<b>Straddle Packer(s):</b> FT	
<b>Change Over:</b> FT	
<b>Drill Pipe:</b> FT <i>ID-3 1/2"</i>	
<b>Change Over:</b> FT	
<b>Perforations (in tail pipe):</b> FT <i>4 1/2-FH</i>	



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**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.3      **Viscosity:** 54      **Filtrate:** 6.8      **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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