



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

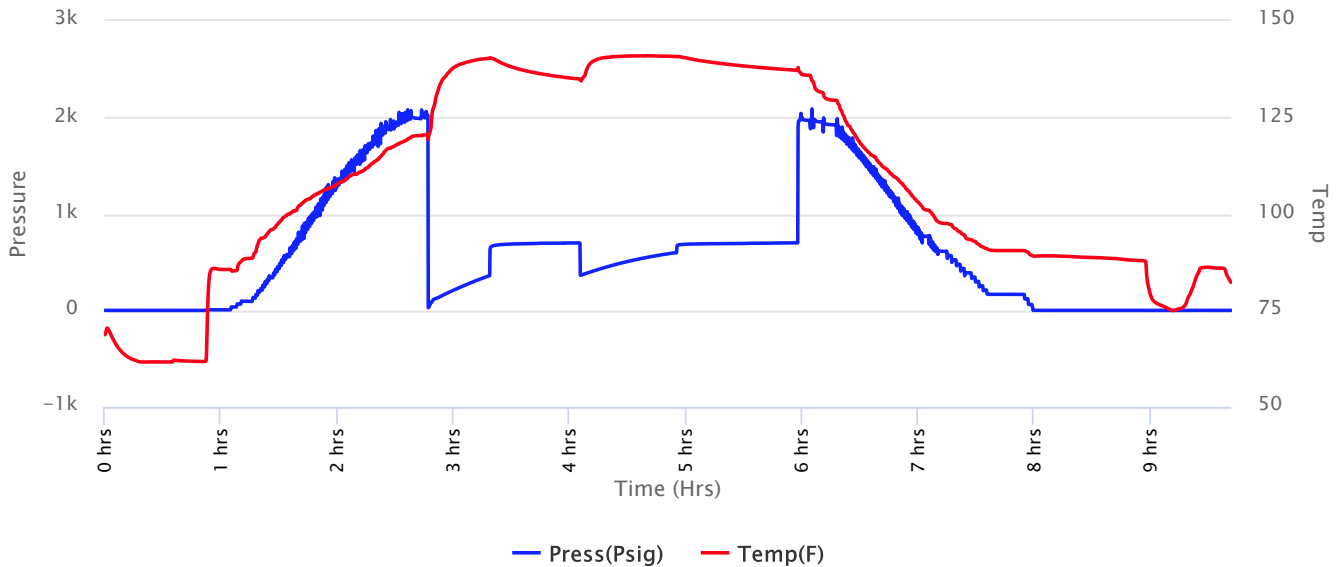
DATE
June
19
2019

DST #1 **Formation: Lans H** **Test Interval: 4126 - 4180'** **Total Depth: 4180'**
Time On: 01:44 06/19 Time Off: 11:09 06/19
Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Electronic Volume Estimate:
1305'

<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: 60.8" at 30 min	Current Reading: 0" at 45 min	Current Reading: 57.1" at 45 min	Current Reading: 0" at 60 min
Max Reading: 60.8"	Max Reading: 0"	Max Reading: 57.1"	Max Reading: 0"

Inside Recorder





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
19
 2019

DST #1 **Formation: Lans H** **Test Interval: 4126 - 4180'** **Total Depth: 4180'**
 Time On: 01:44 06/19 Time Off: 11:09 06/19
 Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

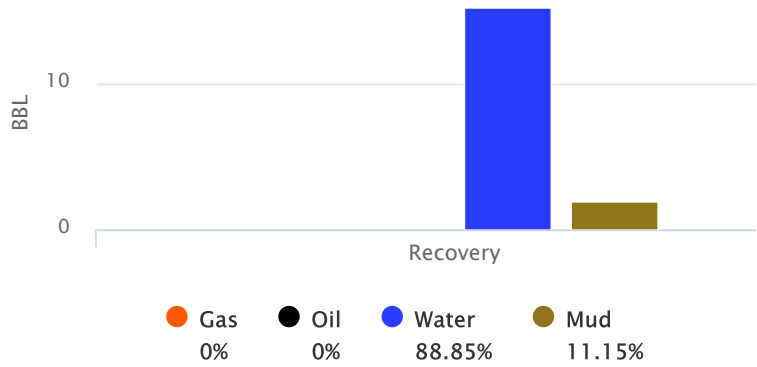
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
184	2.61832	HMCW	0	0	55	45
1134	14.404229	SLMCW	0	0	95	5

Total Recovered: 1318 ft
 Total Barrels Recovered: 17.022549

Reversed Out
 NO

Initial Hydrostatic Pressure	1988	PSI
Initial Flow	28 to 359	PSI
Initial Closed in Pressure	699	PSI
Final Flow Pressure	364 to 598	PSI
Final Closed in Pressure	700	PSI
Final Hydrostatic Pressure	1984	PSI
Temperature	141	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0



**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
19
2019

DST #1 Formation: Lans H Test Interval: 4126 - Total Depth: 4180'
4180'
Time On: 01:44 06/19 Time Off: 11:09 06/19
Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 5 mins
1st Close: NOBB
2nd Open: 1/4" Blow. BOB in 7 3/4 mins
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 95% Water 5% Mud
Ph: 7
Measured RW: .26 @ 61 degrees °F
RW at Formation Temp: 0.119 @ 141 °F
Chlorides: 26,000 ppm



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
19
2019

DST #1 **Formation: Lans H** **Test Interval: 4126 - 4180'** **Total Depth: 4180'**
Time On: 01:44 06/19 Time Off: 11:09 06/19
Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Down Hole Makeup

Heads Up: 13.16 FT	Packer 1: 4120.71 FT
Drill Pipe: 3920.2 FT <i>ID-3 1/2</i>	Packer 2: 4125.71 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4110.13 FT
Collars: 186.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 4164 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: 54.29	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): 31.29 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 17 FT <i>4 1/2-FH</i>	



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
19
2019

DST #1 Formation: Lans H Test Interval: 4126 - 4180' Total Depth: 4180'
Time On: 01:44 06/19 Time Off: 11:09 06/19
Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Mud Properties

Mud Type: Chem Weight: 9 Viscosity: 64 Filtrate: 6.4 Chlorides: 1500 ppm



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
19
2019

DST #1 **Formation: Lans H** **Test Interval: 4126 - 4180'** **Total Depth: 4180'**
Time On: 01:44 06/19 Time Off: 11:09 06/19
Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------