



**Company: Mull Drilling
Company, Inc**
Lease: Schippers #1-33

SEC: 33 TWN: 10S RNG: 31W
County: THOMAS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 3005 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 359
API #: 15-193-21044

Operation:
Uploading recovery &
pressures

DATE
June
19
2019

DST #3 Formation: Pawnee Test Interval: 4420 - 4460' Total Depth: 4460'
Time On: 06:47 06/19 Time Off: 15:28 06/19
Time On Bottom: 09:03 06/19 Time Off Bottom: 12:38 06/19

Electronic Volume
Estimate:
4417'

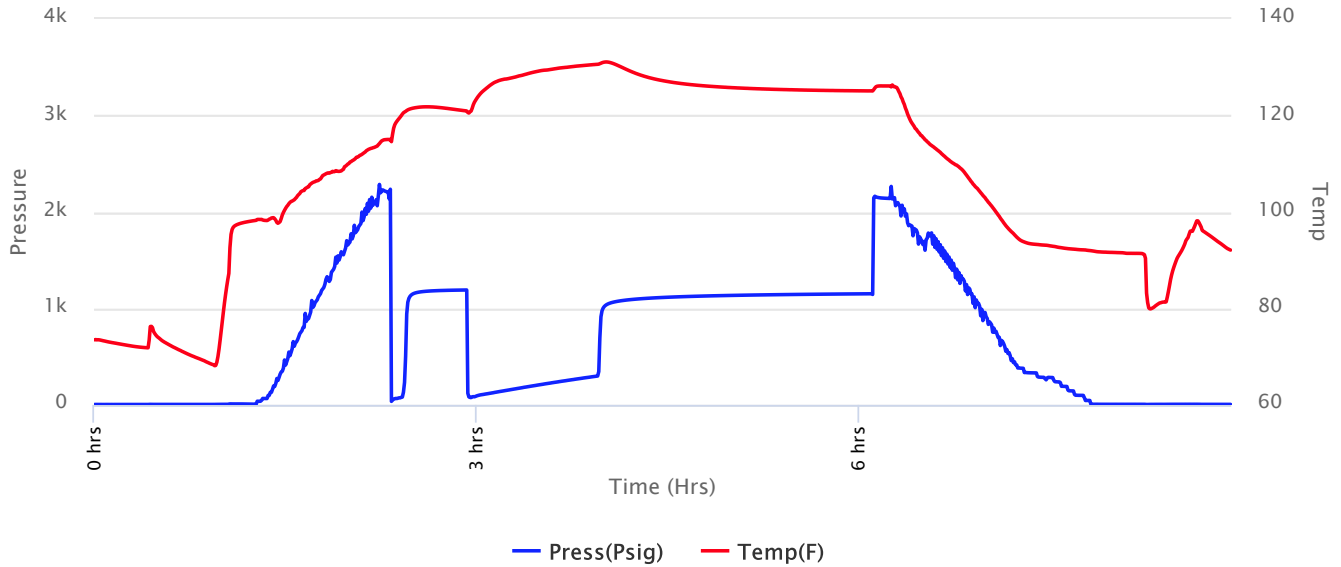
1st Open
Minutes: 5
Current Reading:
34.2" at 5 min
Max Reading: 34.2"

1st Close
Minutes: 30
Current Reading:
.1" at 30 min
Max Reading: .1"

2nd Open
Minutes: 60
Current Reading:
392.3" at 60 min
Max Reading: 392.3"

2nd Close
Minutes: 120
Current Reading:
68.5" at 120 min
Max Reading: 68.9"

Inside Recorder





**Company: Mull Drilling
Company, Inc**
Lease: Schippers #1-33

SEC: 33 TWN: 10S RNG: 31W
County: THOMAS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 3005 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 359
API #: 15-193-21044

Operation:
Uploading recovery &
pressures

DATE
June
19
2019

DST #3 Formation: Pawnee Test Interval: 4420 - Total Depth: 4460'
4460'
Time On: 06:47 06/19 Time Off: 15:28 06/19
Time On Bottom: 09:03 06/19 Time Off Bottom: 12:38 06/19

Recovered

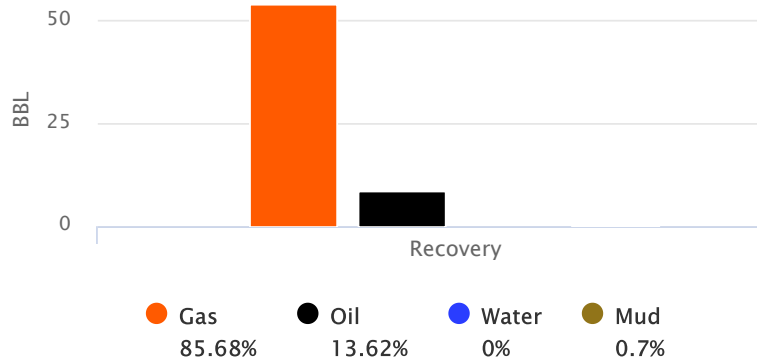
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3685	52.43755	G	100	0	0	0
126	1.79298	SLGCO	10	90	0	0
220	3.1306	SLGCO	15	85	0	0
157	2.23411	SLMCSLGCO	15	79	0	6
126	1.79298	SLMCSLGCO	10	87	0	3
123	1.22893	SLMCGCO	20	78	0	2
60	0.2952	SLOGCM	20	3	0	77

Total Recovered: 4497 ft
Total Barrels Recovered: 62.91235

Reversed Out
NO

Initial Hydrostatic Pressure	2211	PSI
Initial Flow	37 to 78	PSI
Initial Closed in Pressure	1191	PSI
Final Flow Pressure	78 to 295	PSI
Final Closed in Pressure	1151	PSI
Final Hydrostatic Pressure	2162	PSI
Temperature	131	°F
Pressure Change Initial Close / Final Close	3.3	%

Recovery at a glance



GIP cubic foot volume: 302.65343



**Company: Mull Drilling
Company, Inc**

Lease: Schippers #1-33

SEC: 33 TWN: 10S RNG: 31W
County: THOMAS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 3005 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 359
API #: 15-193-21044

Operation:
Uploading recovery &
pressures

DATE
June
19
2019

DST #3 Formation: Pawnee Test Interval: 4420 - Total Depth: 4460'
4460'
Time On: 06:47 06/19 Time Off: 15:28 06/19
Time On Bottom: 09:03 06/19 Time Off Bottom: 12:38 06/19

BUCKET MEASUREMENT:

1st Open: BoB in 2 min. 15 sec.
1st Close: Weak Surface Return started at 6 min. Did not build or die.
2nd Open: BoB in 1 min. 17 sec.
2nd Close: BoB in 9 min. 53 sec.

REMARKS:

Gas to surface at end of final flow period. Slight odor too weak to measure.
Tool Sample: 30% Gas 50% Oil 0% Water 20% Mud
Gravity: 39.5 @ 60 °F



**Company: Mull Drilling
Company, Inc**
Lease: Schippers #1-33

SEC: 33 TWN: 10S RNG: 31W
County: THOMAS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 3005 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 359
API #: 15-193-21044

Operation:
Uploading recovery &
pressures

DATE
June
19
2019

DST #3 Formation: Pawnee Test Interval: 4420 - Total Depth: 4460'
4460'
Time On: 06:47 06/19 Time Off: 15:28 06/19
Time On Bottom: 09:03 06/19 Time Off Bottom: 12:38 06/19

Down Hole Makeup

Heads Up: 30.15 FT	Packer 1: 4414.59 FT
Drill Pipe: 4301.17 FT <i>ID-3 1/2</i>	Packer 2: 4419.59 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4404.01 FT
Collars: 116 FT <i>ID-2 1/4</i>	Bottom Recorder: 4425 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: 40.41	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 4 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 31.41 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc**

Lease: Schippers #1-33

SEC: 33 TWN: 10S RNG: 31W
County: THOMAS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 3005 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 359
API #: 15-193-21044

Operation:
Uploading recovery &
pressures

DATE
June
19
2019

DST #3 Formation: Pawnee Test Interval: 4420 - Total Depth: 4460'
4460'
Time On: 06:47 06/19 Time Off: 15:28 06/19
Time On Bottom: 09:03 06/19 Time Off Bottom: 12:38 06/19

Mud Properties

Mud Type: Chem **Weight:** 9.3 **Viscosity:** 59 **Filtrate:** 7.2 **Chlorides:** 3000 ppm



**Company: Mull Drilling
Company, Inc**
Lease: Schippers #1-33

SEC: 33 TWN: 10S RNG: 31W
County: THOMAS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 3005 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 359
API #: 15-193-21044

Operation:
Uploading recovery &
pressures

DATE
June
19
2019

DST #3 Formation: Pawnee Test Interval: 4420 - Total Depth: 4460'
4460'
Time On: 06:47 06/19 Time Off: 15:28 06/19
Time On Bottom: 09:03 06/19 Time Off Bottom: 12:38 06/19

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D