

Company: Grand Mesa Lease: O'Brien #2-9

Operation: Uploading recovery & pressures

Operating Company

SEC: 9 TWN: 16S RNG: 29W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 16 Elevation: 2662 GL Field Name: Hickok Road

Pool: Infield Job Number: 421

API#: 15-101-22638-00-00

DATE November **DST #1** Formation: Test Interval: 3944 -4037'

Total Depth: 4037'

16 2019

Time On: 21:45 11/16

Time Off: 05:55 11/17

Time On Bottom: 00:06 11/17 Time Off Bottom: 03:06 11/17

Electronic Volume Estimate: 217'

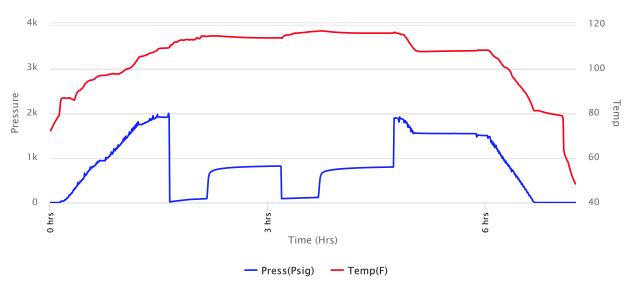
1st Open Minutes: 30 **Current Reading:** 7.8" at 30 min Max Reading: 7.8"

1st Close Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

2nd Open Minutes: 30 Current Reading: 5.5" at 30 min Max Reading: 5.5"

2nd Close Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

Inside Recorder





Company: Grand Mesa Operating Company Lease: O'Brien #2-9

Operation: Uploading recovery & pressures

SEC: 9 TWN: 16S RNG: 29W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 16 Elevation: 2662 GL Field Name: Hickok Road

Pool: Infield Job Number: 421

API#: 15-101-22638-00-00

Mud % 99.9 57 56

DATE November

16 2019 Formation: Test Interval: 3944 -Total Depth: 4037'

4037'

Time On: 21:45 11/16 Time Off: 05:55 11/17

Time On Bottom: 00:06 11/17 Time Off Bottom: 03:06 11/17

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	Gas %	Oil %	Water %
100	1.4060558	M (trace O)	0	.1	0
60	0.2952	HWCM (trace O)	0	.1	42.9
60	0.2952	HWCM	0	0	44

Total Recovered: 220 ft

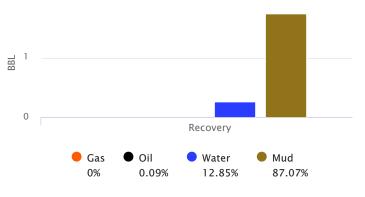
Total Barrels Recovered: 1.9964558

eversed Out	l
NO	ı

Initial Hydrostatic Pressure	1912	PSI
Initial Flow	16 to 87	PSI
Initial Closed in Pressure	817	PSI
Final Flow Pressure	91 to 116	PSI
Final Closed in Pressure	795	PSI
Final Hydrostatic Pressure	1896	PSI
Temperature	118	°F
Pressure Change Initial	2.7	%
Close / Final Close		

DST #1

Recovery at a glance



GIP cubic foot volume: 0



Operation:
Uploading recovery & pressures

Company: Grand Mesa Operating Company Lease: O'Brien #2-9

SEC: 9 TWN: 16S RNG: 29W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 16 Elevation: 2662 GL Field Name: Hickok Road

Pool: Infield Job Number: 421

API #: 15-101-22638-00-00

DATE November

16 2019

DST #1 Formation:

Test Interval: 3944 -

Total Depth: 4037'

4037'

Time On: 21:45 11/16 Time Off: 05:55 11/17
Time On Bottom: 00:06 11/17 Time Off Bottom: 03:06 11/17

BUCKET MEASUREMENT:

1st Open: 1/2" blow building to 7 1/2"

1st Close: No BB

2nd Open: Surface blow building to 5 1/4"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .3% Oil 15.7% Water 84% Mud

Ph: 8.0

Measured RW: GAUGE DIDN'T WORK @ degrees °F

Chlorides: 22,000 ppm



SEC: 9 TWN: 16S RNG: 29W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 16 Elevation: 2662 GL

Operation:
Uploading recovery & pressures

Lease: O'Brien #2-9

Field Name: Hickok Road

Pool: Infield Job Number: 421

7 7/8

API #: 15-101-22638-00-00

DATE November 16

2019

DST #1 Formation: Test Interval: 3944 - Total Depth: 4037'

4037'

Well Bore Size:

Time On: 21:45 11/16 Time Off: 05:55 11/17
Time On Bottom: 00:06 11/17 Time Off Bottom: 03:06 11/17

Down Hole Makeup

Heads Up: 21.28 FT **Packer 1:** 3939.17 FT

Drill Pipe: 3811.06 FT **Packer 2:** 3944.17 FT

ID-3 1/2 Top Recorder: 3928.59 FT

Weight Pipe: 0 FT Bottom Recorder: 4015 FT

ID-2 7/8

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH Jars

Safety Joint

Total Anchor: 92.83

Anchor Makeup
Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 63.83 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 23 FT

4 1/2-FH



Company: Grand Mesa Operating Company Lease: O'Brien #2-9 SEC: 9 TWN: 16S RNG: 29W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 16 Elevation: 2662 GL Field Name: Hickok Road

Pool: Infield



Job Number: 421 API #: 15-101-22638-00-00

DATE November

16 2019

DST #1 Formation: Test Interval: 3944 - Total Depth: 4037' 4037'

Time On: 21:45 11/16 Time Off: 05:55 11/17
Time On Bottom: 00:06 11/17 Time Off Bottom: 03:06 11/17

Mud Properties

Mud Type: Chemical Weight: 9.0 Viscosity: 57 Filtrate: 6.8 Chlorides: 2,000 ppm



Operation:

Uploading recovery &

pressures

Company: Grand Mesa Operating Company Lease: O'Brien #2-9

Elevation: 2662 GL Field Name: Hickok Road Pool: Infield

Company, Inc - Rig 16

Job Number: 421

County: LANE State: Kansas

API #: 15-101-22638-00-00

SEC: 9 TWN: 16S RNG: 29W

Drilling Contractor: Murfin Drilling

DATE
November
16
2019

DST #1 Formation: Test Interval: 3944 - Total Depth: 4037' 4037'

Time On: 21:45 11/16 Time Off: 05:55 11/17
Time On Bottom: 00:06 11/17 Time Off Bottom: 03:06 11/17

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	

2nd Open					
Time	Orifice	PSI	MCF/D		