



**Company: Chieftain Oil
Company, Inc.
Lease: Eck #3**

SEC: 30 TWN: 32S RNG: 10W
County: BARBER
State: Kansas
Drilling Contractor: Fossil Drilling, Inc.
- Rig 3
Elevation: 1460 GL
Field Name: Antrim
Pool: Infield
Job Number: 221

Operation:
Test Complete

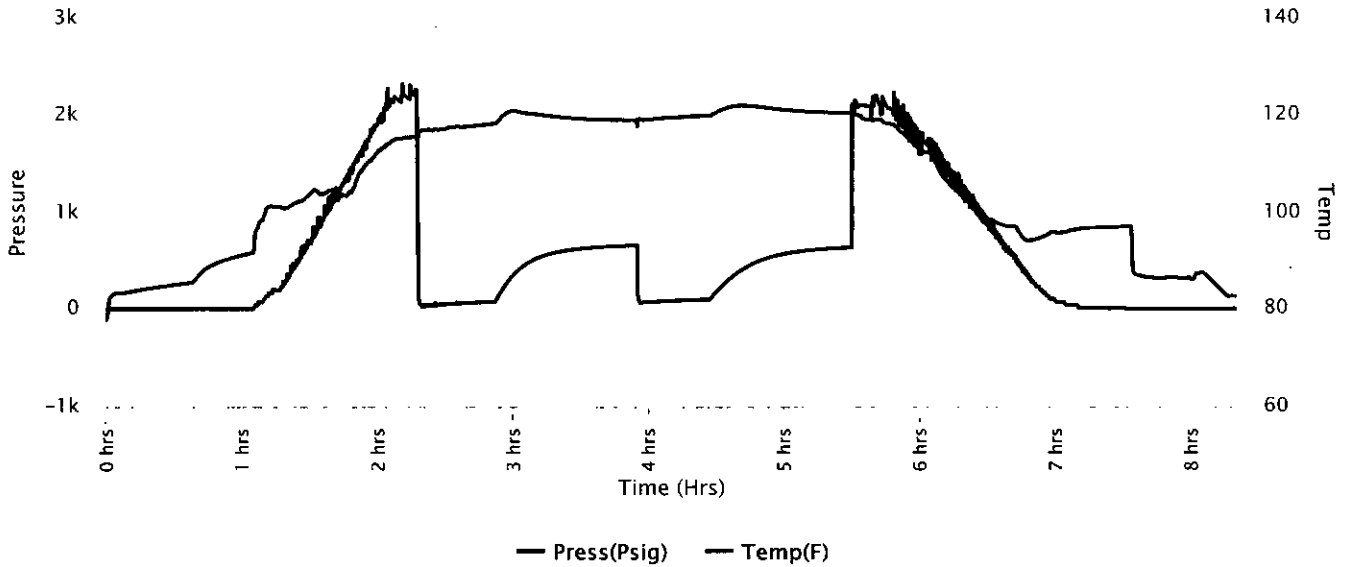
DATE
August
28
2018

DST #2 **Formation: Mississippi** **Test Interval: 4453 - 4516'** **Total Depth: 4516'**
Time On: 11:47 08/28 Time Off: 19:54 08/28
Time On Bottom: 14:02 08/28 Time Off Bottom: 17:02 08/28

Electronic Volume Estimate:
N/A

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 60	Minutes: 30	Minutes: 60
Current Reading: 342" at 30 min	Current Reading: 21" at 60 min	Current Reading: GTS" at 30 min	Current Reading: 0" at 60 min
Max Reading: 342"	Max Reading: 24.7"	Max Reading: GTS"	Max Reading: 0"

Inside Recorder





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Recovered

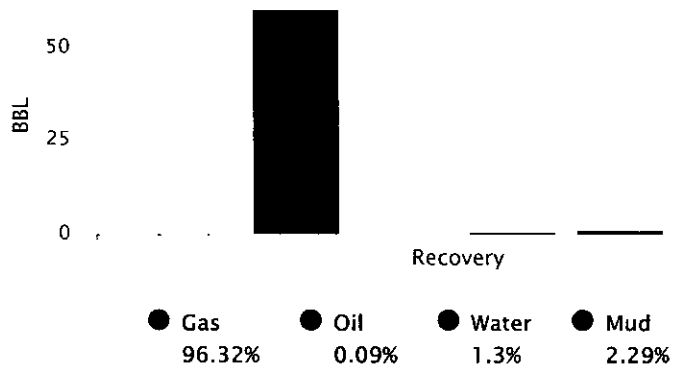
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
4243	60.37789	G	100	0	0	0
192	2.73216	SLOCSLGCHWCM	15	2	30	53

Total Recovered: 4435 ft
 Total Barrels Recovered: 63.11005

Reversed Out
 NO

Initial Hydrostatic Pressure	2139	PSI
Initial Flow	28 to 70	PSI
Initial Closed in Pressure	658	PSI
Final Flow Pressure	61 to 98	PSI
Final Closed in Pressure	636	PSI
Final Hydrostatic Pressure	2123	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	3.2	%

Recovery at a glance





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BUCKET MEASUREMENT:

1st Open: 2 in. blow building. BOB in 30 secs.
1st Close: BOB blow back.
2nd Open: BOB immediately.
2nd Close: No blow back.

REMARKS:

Tool sample blown out.
Gas sample taken 10 mins. into 2nd Opening. Blow too weak to measure.

Ph: 7

Measured RW: .13 @ 91 degrees °F

RW at Formation Temp: 0.098 @ 123 °F

Chlorides: 47,000 ppm



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Down Hole Makeup

Heads Up: 15.29 FT	Packer 1: 4447.68 FT
Drill Pipe: 4435.4 FT <i>ID-3 1/2</i>	Packer 2: 4452.68 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4437.1 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4491 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: 63.32	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): 31.32 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 26 FT <i>4 1/2-FH</i>	



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Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 78 **Filtrate:** 10.4 **Chlorides:** 5,000 ppm



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Gas Volume Report

Remarks: Gas sample taken 10 mins into 2nd Opening.

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
10	0.125	Too weak to measure	Weak
30	0.125	Too weak to measure	Weak

MCF/D