



**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

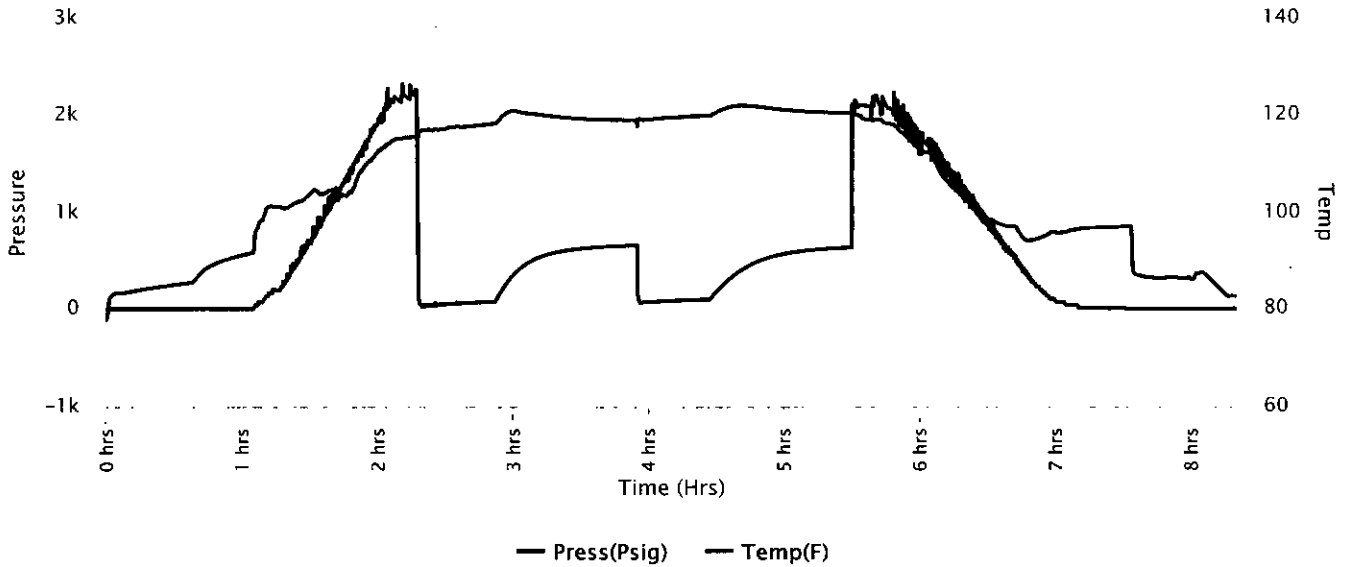
**DATE**  
August  
**28**  
2018

**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

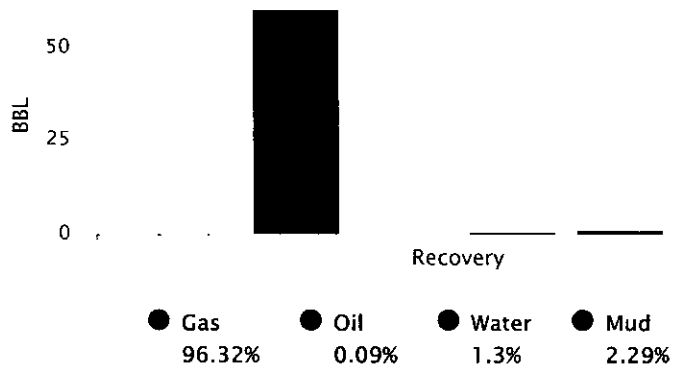
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
4243	60.37789	G	100	0	0	0
192	2.73216	SLOCSLGCHWCM	15	2	30	53

Total Recovered: 4435 ft  
 Total Barrels Recovered: 63.11005

Reversed Out  
 NO

Initial Hydrostatic Pressure	2139	PSI
Initial Flow	28 to 70	PSI
<b>Initial Closed in Pressure</b>	<b>658</b>	<b>PSI</b>
Final Flow Pressure	61 to 98	PSI
<b>Final Closed in Pressure</b>	<b>636</b>	<b>PSI</b>
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**

<b>Heads Up:</b> 15.29 FT	<b>Packer 1:</b> 4447.68 FT
<b>Drill Pipe:</b> 4435.4 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4452.68 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4437.1 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4491 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 63.32	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.32 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 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