



**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

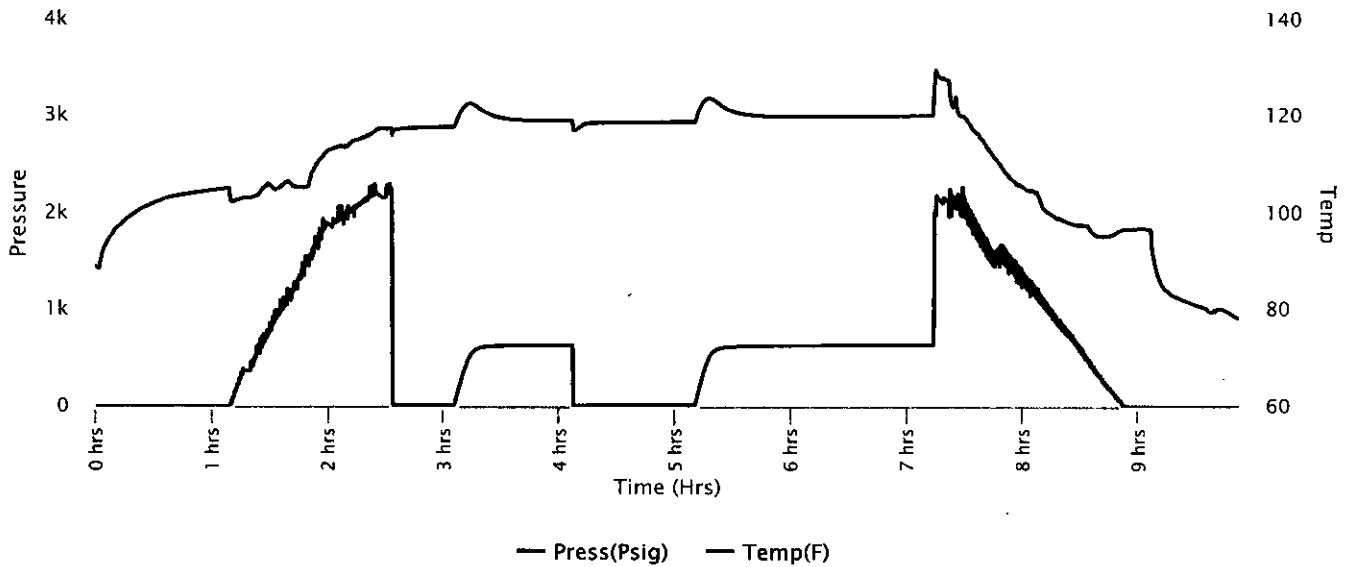
DATE
August
27
2018

DST #1 **Formation: Cherokee Sand** **Test Interval: 4390 - 4410'** **Total Depth: 4410'**
Time On: 15:43 08/27 Time Off: 01:19 08/28
Time On Bottom: 18:13 08/27 Time Off Bottom: 22:43 08/27

Electronic Volume Estimate:
3647'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 60	Minutes: 60	Minutes: 120
Current Reading: 77.4" at 30 min	Current Reading: 0" at 60 min	Current Reading: 299.4" at 60 min	Current Reading: 24.8" at 120 min
Max Reading: 77.4"	Max Reading: 0"	Max Reading: 299.4"	Max Reading: 27.8"

Inside Recorder





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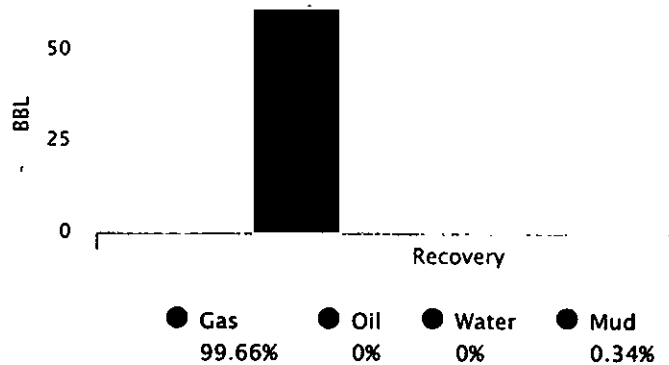
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
4357	62.00011	G	100	0	0	0
15	0.21345	M	0	0	0	100

Total Recovered: 4372 ft
Total Barrels Recovered: 62.21356

Reversed Out
NO

Initial Hydrostatic Pressure	2165	PSI
Initial Flow	10 to 14	PSI
Initial Closed in Pressure	639	PSI
Final Flow Pressure	8 to 22	PSI
Final Closed in Pressure	640	PSI
Final Hydrostatic Pressure	2163	PSI
Temperature	124	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





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BUCKET MEASUREMENT:

1st Open: 1/4 in. blow building. BOB in 10 1/4 mins.
1st Close: No blow back.
2nd Open: BOB immediately.
2nd Close: BOB blow back. GTS in 10 mins.

REMARKS:

Gas to surface came 10 mins. into final shut-in.
Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



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Down Hole Makeup

Heads Up: 15.23 FT	Packer 1: 4385 FT
Drill Pipe: 4372.66 FT <i>ID-3 1/2</i>	Packer 2: 4390 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4374.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4395 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: 20	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: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 16 FT <i>4 1/2-FH</i>	



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Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 57 **Filtrate:** 9.6 **Chlorides:** 4,000 ppm