



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Woolsey Operating Co  
 125 N Market Ste 1000  
 Wichita, KS 67202  
 ATTN: Bill Klaver

**1-32S-8W Harper**

**Hubbard 1**

Job Ticket: 63971

**DST#: 3**

Test Start: 2018.09.23 @ 05:34:32

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:35:34  
 Time Test Ended: 13:26:34  
 Interval: **4399.00 ft (KB) To 4415.00 ft (KB) (TVD)**  
 Total Depth: 4415.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1500.00 ft (KB)  
 1488.00 ft (CF)  
 KB to GR/CF: 12.00 ft

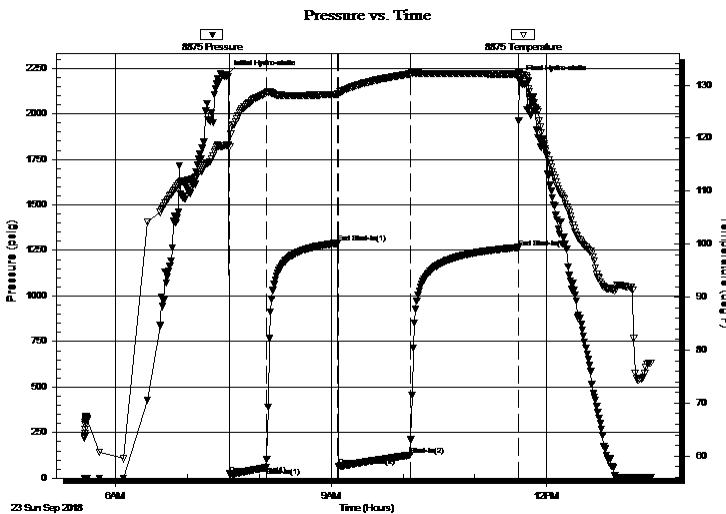
## Serial #: 8875

Inside

Press@RunDepth: 126.55 psig @ 4400.00 ft (KB) Capacity: psig  
 Start Date: 2018.09.23 End Date: 2018.09.23 Last Calib.: 2018.09.23  
 Start Time: 05:34:33 End Time: 13:26:34 Time On Btm: 2018.09.23 @ 07:33:19  
 Time Off Btm: 2018.09.23 @ 11:37:19

TEST COMMENT: IF: Fair Blow , Built to 6.5 inches  
 IS: No Blow Back  
 FF: Fair Blow , Built to 6.75 inches  
 FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.13	118.64	Initial Hydro-static
3	22.63	118.41	Open To Flow (1)
33	57.02	128.46	Shut-In(1)
93	1289.76	128.28	End Shut-In(1)
93	62.37	128.28	Open To Flow (2)
153	126.55	132.12	Shut-In(2)
243	1266.54	132.12	End Shut-In(2)
244	2188.82	132.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	2.61
10.00	VSOMCW 2%O 14%M 84%W	0.14

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Woolsey Operating Co

**1-32S-8W Harper**

125 N Market Ste 1000  
Wichita, KS 67202

**Hubbard 1**

Job Ticket: 63971

**DST#: 3**

ATTN: Bill Klaver

Test Start: 2018.09.23 @ 05:34:32

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water	2.609
10.00	VSOMCW 2%O 14%M 84%W	0.140

Total Length: 196.00 ft      Total Volume: 2.749 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

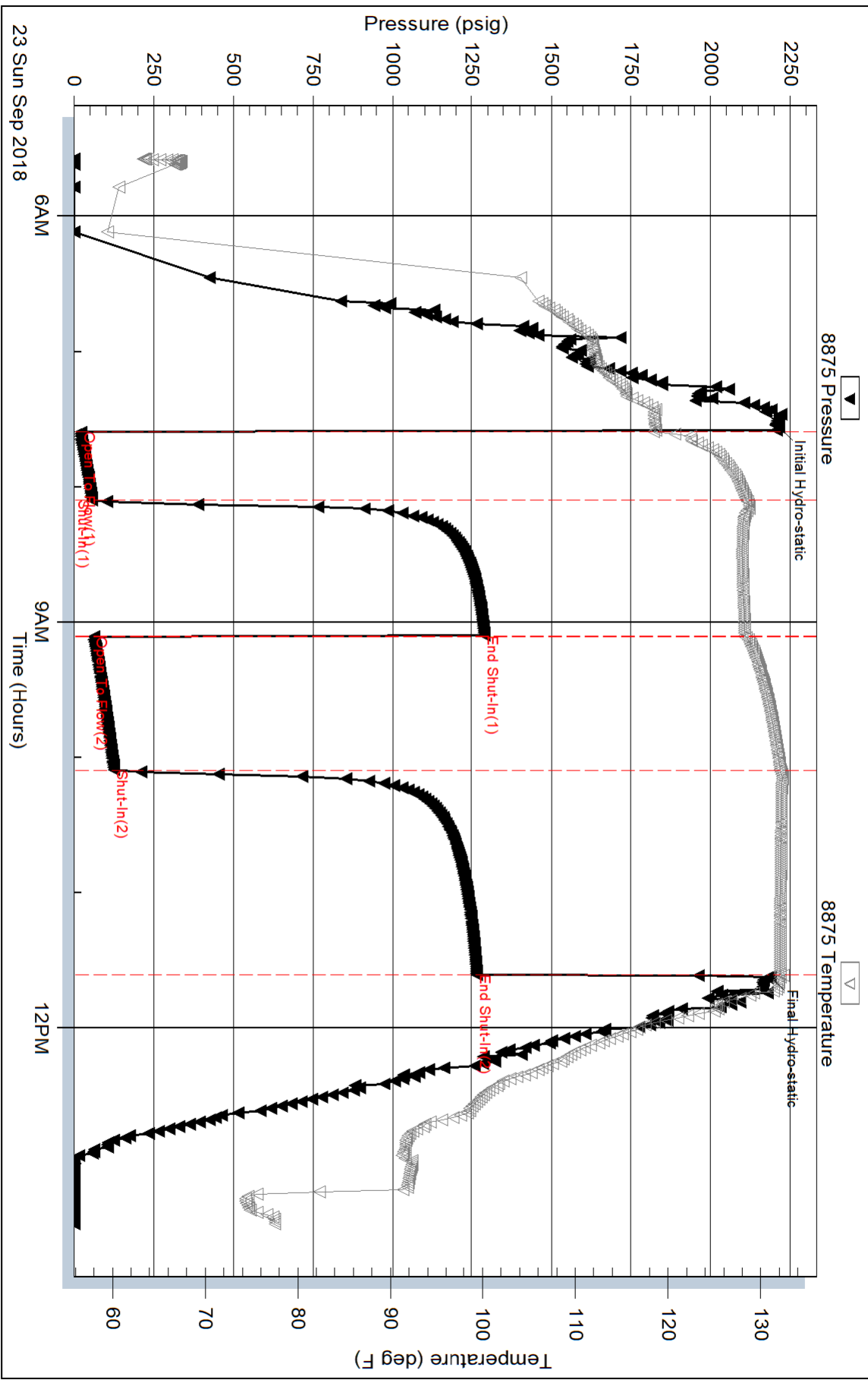
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .1 @ 80 degrees

### Pressure vs. Time



Serial #: 6749

Outside Woodsey Operating Co

Hubbard 1

DST Test Number: 3

