



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

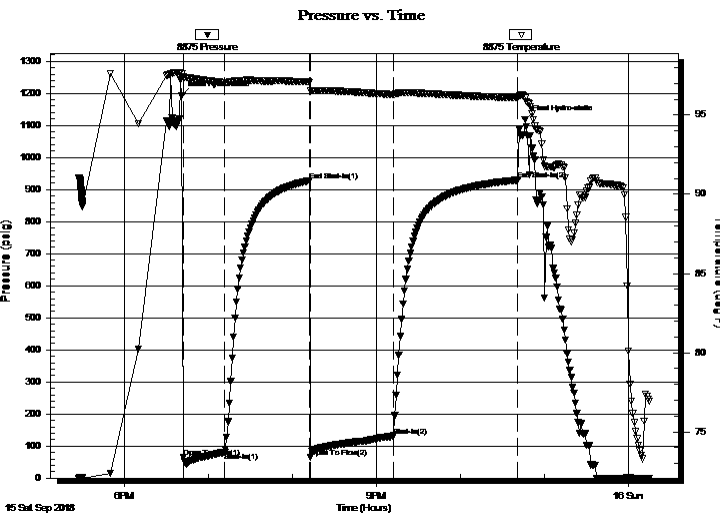
**1-32S-8W Harper**  
**Hubbard 1**  
Job Ticket: 63970      **DST#: 2**  
Test Start: 2018.09.15 @ 17:27:26

## GENERAL INFORMATION:

Formation: **Indian Cave**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:41:58  
Time Test Ended: 00:15:28  
Interval: **2282.00 ft (KB) To 2318.00 ft (KB) (TVD)**  
Total Depth: 2318.00 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: 131.73 psig @ 2283.00 ft (KB)      Capacity:      psig  
Start Date: 2018.09.15      End Date: 2018.09.16      Last Calib.: 2018.09.16  
Start Time: 17:27:27      End Time: 00:15:28      Time On Btm: 2018.09.15 @ 18:40:58  
Time Off Btm: 2018.09.15 @ 22:45:58

**TEST COMMENT:** IF: Strong Blow , BOB in 30 seconds, Built to 41 inches, Died Off to 15 inches  
IS: No Blow Back  
FF: Strong Blow , BOB Immediate, Built to 372 inches  
FSI: GTS 2 minutes into Bleed Off, 10 inch Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1192.44	97.64	Initial Hydro-static
1	64.29	97.44	Open To Flow (1)
31	80.81	97.05	Shut-In(1)
91	926.99	97.06	End Shut-In(1)
92	65.42	96.54	Open To Flow (2)
151	131.73	96.29	Shut-In(2)
240	929.83	96.13	End Shut-In(2)
245	1118.26	96.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	2010 GIP	0.00
121.00	MCW 10%M 90%W	0.60
141.00	GMCW 5%G 30%M 65%W	1.98

\* Recovery from multiple tests

## Gas Rates

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





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**FLUID SUMMARY**

Woolsey Operating Co

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

125 N Market Ste 1000  
Wichita, KS 67202

**Hubbard 1**

Job Ticket: 63970

**DST#: 2**

ATTN: Bill Klaver

Test Start: 2018.09.15 @ 17:27:26

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

75000 ppm

Viscosity: 32.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 71000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2010 GIP	0.000
121.00	MCW 10%M 90%W	0.595
141.00	GMCW 5%G 30%M 65%W	1.978

Total Length: 262.00 ft      Total Volume: 2.573 bbl

Num Fluid Samples: 0

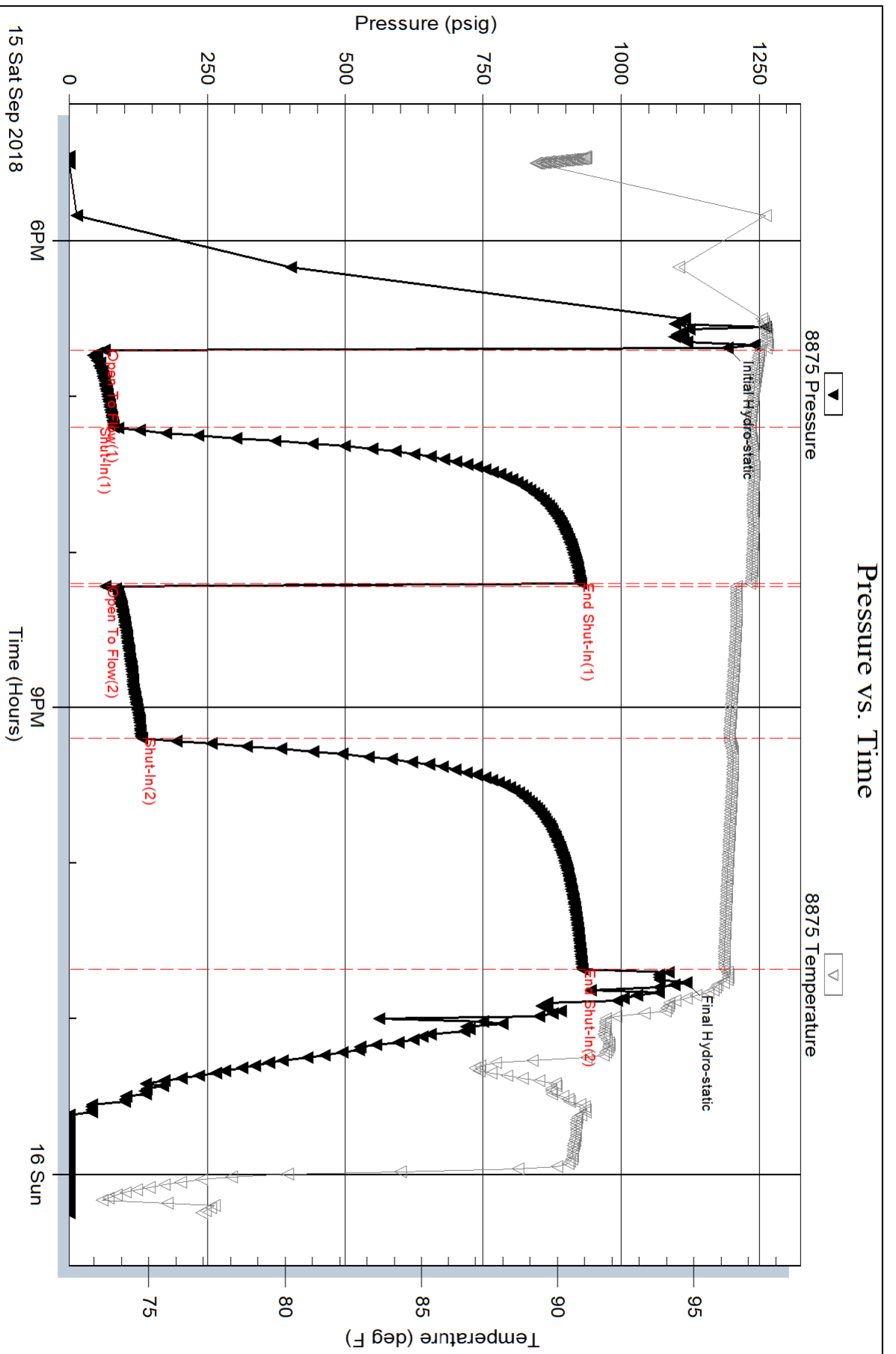
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .12 @ 66 degrees



Serial #: 6749

Outside Woodsey Operating Co

Hubbard 1

DST Test Number: 2

