



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company

10-31s-7w Harper Co KS

125 N Market STE 1000
Wichita, Ks. 67202

Gerber #1

Job Ticket: 64902

DST#: 1

ATTN: Bill Klaver

Test Start: 2018.11.08 @ 07:40:53

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:15:08

Time Test Ended: 16:34:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 4351.00 ft (KB) To 4361.00 ft (KB) (TVD)

Reference Elevations: 1587.00 ft (KB)

Total Depth: 4361.00 ft (KB) (TVD)

1575.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8931

Inside

Press@RunDepth: 74.94 psig @ 4352.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.08

End Date:

2018.11.08

Last Calib.: 2018.11.08

Start Time: 07:40:58

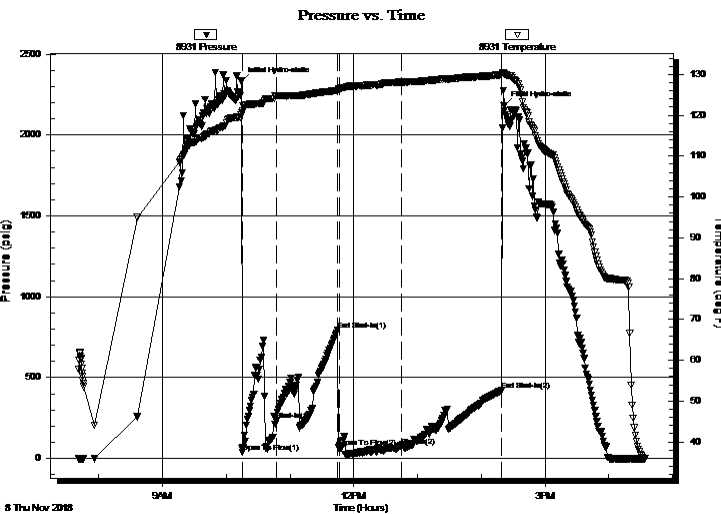
End Time:

16:34:23

Time On Btm: 2018.11.08 @ 10:14:08

Time Off Btm: 2018.11.08 @ 14:21:23

TEST COMMENT: IF: Weak blow . Built to 1 1/4".
IS: No blow .
FF: Weak blow . Built to 1 1/4".
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.95	120.14	Initial Hydro-static
1	37.02	121.18	Open To Flow (1)
33	237.25	124.81	Shut-In(1)
91	793.44	126.10	End Shut-In(1)
92	65.77	126.42	Open To Flow (2)
151	74.94	128.05	Shut-In(2)
246	420.92	129.96	End Shut-In(2)
248	2180.44	130.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud 100%m	0.02

Gas Rates

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



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125 N Market STE 1000
Wichita, Ks. 67202
ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

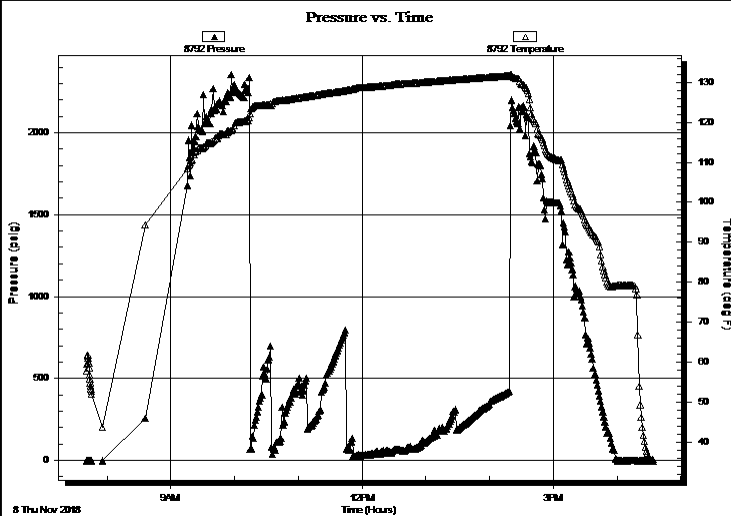
Job Ticket: 64902 **DST#: 1**
Test Start: 2018.11.08 @ 07:40:53

GENERAL INFORMATION:

Formation: Mississippi		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Matt Smith
Time Tool Opened: 10:15:08		Unit No: 68
Time Test Ended: 16:34:23		
Interval: 4351.00 ft (KB) To 4361.00 ft (KB) (TVD)		Reference Elevations: 1587.00 ft (KB)
Total Depth: 4361.00 ft (KB) (TVD)		1575.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 12.00 ft

Serial #: 8792	Outside		
Press@RunDepth: psig @ 4352.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2018.11.08	End Date: 2018.11.08	Last Calib.: 2018.11.08	
Start Time: 07:40:49	End Time: 16:34:14	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Weak blow . Built to 1 1/4".
IS: No blow .
FF: Weak blow . Built to 1 1/4".
FS: No blow .



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Drig Mud 100%m	0.02

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

10-31s-7w Harper Co KS

125 N Market STE 1000
Wichita, Ks. 67202

Gerber #1

Job Ticket: 64902

DST#: 1

ATTN: Bill Klaver

Test Start: 2018.11.08 @ 07:40:53

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:

5000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 5000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

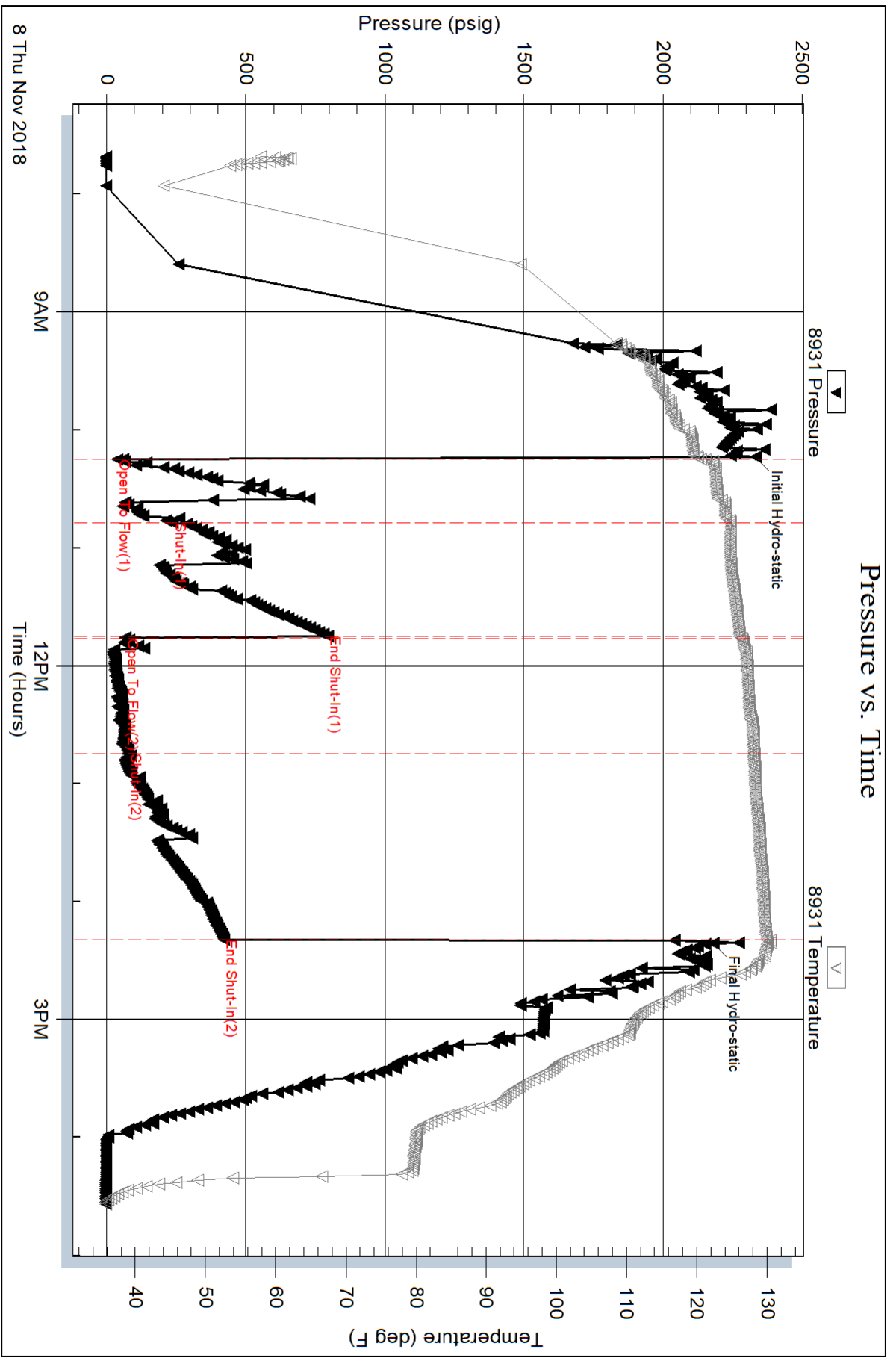
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8792

Outside Woodsey Operating Company

Gerber #1

DST Test Number: 1

