



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

13-31S-8W
MPW 1
 Job Ticket: 63840 **DST#: 2**
 Test Start: 2018.10.30 @ 00:25:00

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:28:17
 Tester: Leal Cason
 Time Test Ended: 07:03:02
 Unit No: 74
 Interval: **4805.00 ft (KB) To 4825.00 ft (KB) (TVD)**
 Reference Elevations: 1618.00 ft (KB)
 Total Depth: 4925.00 ft (KB) (TVD)
 1606.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 12.00 ft

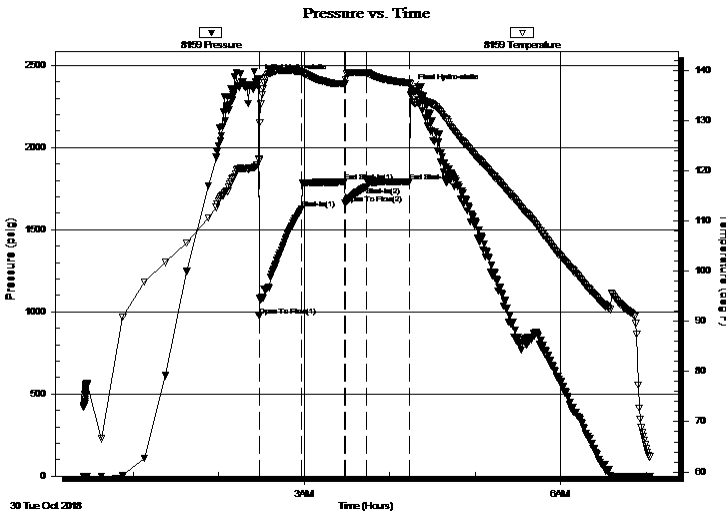
Serial #: 8159

Inside

Press@RunDepth: 1759.64 psig @ 4806.00 ft (KB) Capacity: psig
 Start Date: 2018.10.30 End Date: 2018.10.30 Last Calib.: 2018.10.30
 Start Time: 00:25:01 End Time: 07:03:02 Time On Btm: 2018.10.30 @ 02:28:02
 Time Off Btm: 2018.10.30 @ 04:15:02

TEST COMMENT: IF: Strong Blow , BOB in 45 seconds, Built to 321 inches
 IS: Surface Blow Back
 FF: Strong Blow , BOB in 45 seconds, Built to 155 inches
 FS: Surface Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.10	122.31	Initial Hydro-static
1	975.89	122.12	Open To Flow (1)
30	1625.53	139.74	Shut-In(1)
61	1788.96	137.37	End Shut-In(1)
61	1660.30	137.31	Open To Flow (2)
76	1759.64	139.49	Shut-In(2)
106	1790.48	137.54	End Shut-In(2)
108	2356.66	135.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3306.00	Water	45.27
378.00	MCW 30%M 70%W	5.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

13-31S-8W
MPW 1
Job Ticket: 63840 **DST#: 2**
Test Start: 2018.10.30 @ 00:25:00

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:	80000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

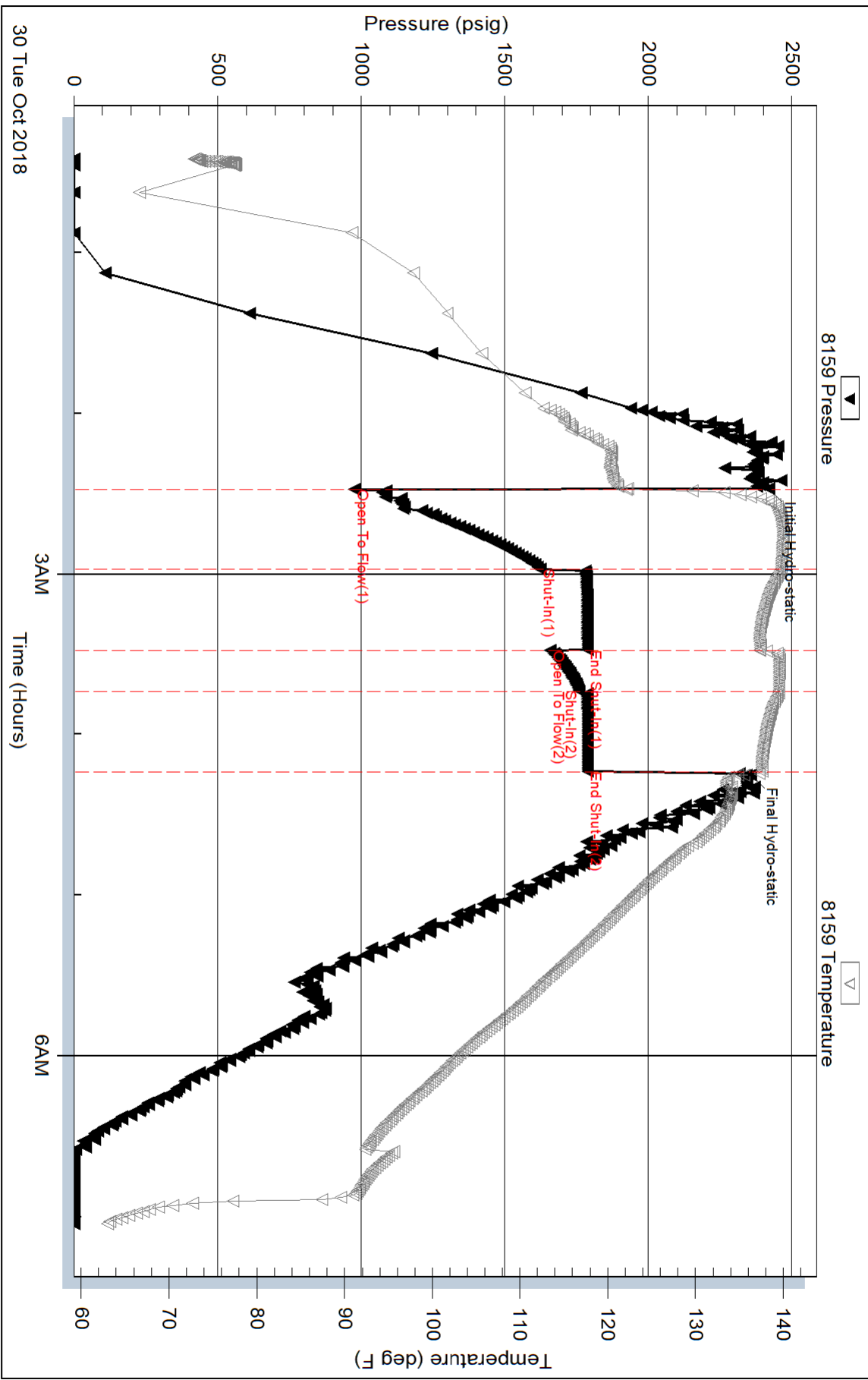
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3306.00	Water	45.272
378.00	MCW 30%M 70%W	5.302

Total Length: 3684.00 ft Total Volume: 50.574 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .08 @ 85 degrees

Pressure vs. Time

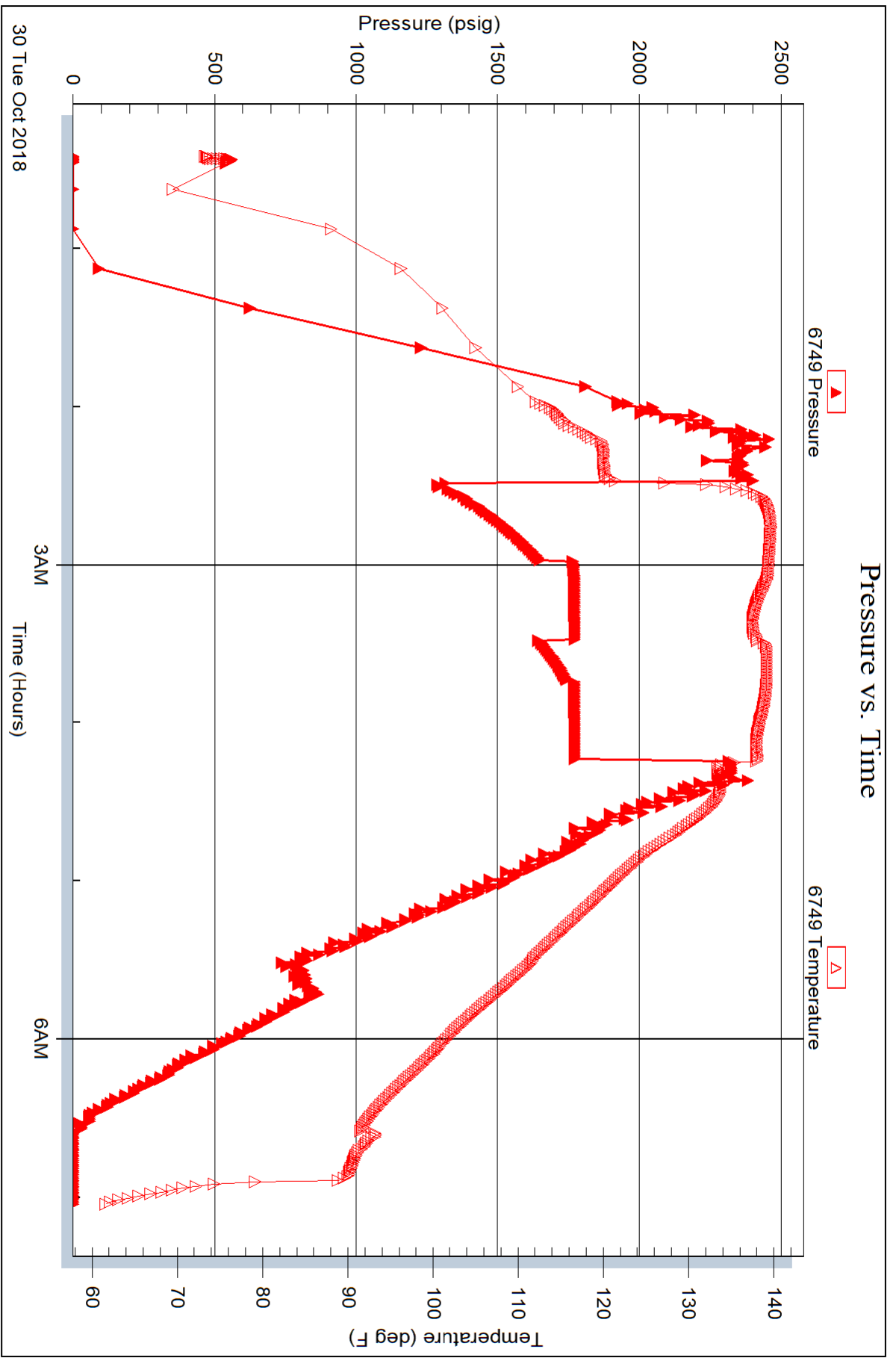


Serial #: 6749

Outside Woodsey Operating Co

MPW 1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63840

Printed: 2018.10.30 @ 08:00:03