



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company Inc.
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita KS 67205
 ATTN: Phil Askey

34-15s-26w Gove Co KS

Muchmore-Thornburg

Job Ticket: 63936 **DST#: 3**

Test Start: 2019.10.16 @ 08:45:15

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:53:45
 Time Test Ended: 16:18:15
 Interval: **4382.00 ft (KB) To 4479.00 ft (KB) (TVD)**
 Total Depth: 4479.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2563.00 ft (KB)
 2558.00 ft (CF)
 KB to GR/CF: 5.00 ft

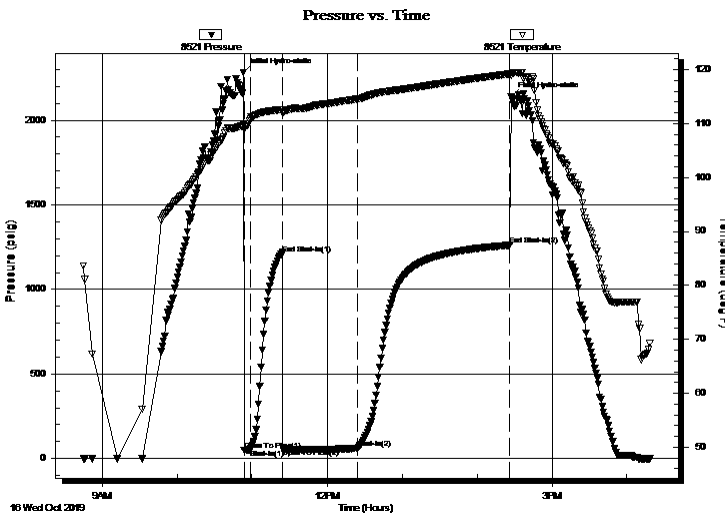
Serial #: 8521

Inside

Press@RunDepth: 59.60 psig @ 4454.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.10.16 End Date: 2019.10.16 Last Calib.: 2019.10.16
 Start Time: 08:45:15 End Time: 16:18:15 Time On Btm: 2019.10.16 @ 10:53:15
 Time Off Btm: 2019.10.16 @ 14:27:15

TEST COMMENT: IF: Built to 1" blow
 IS: Built to 1/2" blow
 FF: BOB in 35 min. Built to 17 1/2" blow
 FS: Built to weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.18	109.68	Initial Hydro-static
1	49.49	108.83	Open To Flow (1)
6	53.02	110.95	Shut-In(1)
32	1208.34	112.61	End Shut-In(1)
32	63.45	112.00	Open To Flow (2)
91	59.60	114.52	Shut-In(2)
213	1261.18	119.22	End Shut-In(2)
214	2136.87	118.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gcom 10%g 30%o 60%m	0.42
0.00	216 ft GIP=	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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ATTN: Phil Askey

Muchmore-Thornburg

Job Ticket: 63936

DST#: 3

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	gcom 10%g 30%o 60%m	0.421
0.00	216 ft GIP=	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

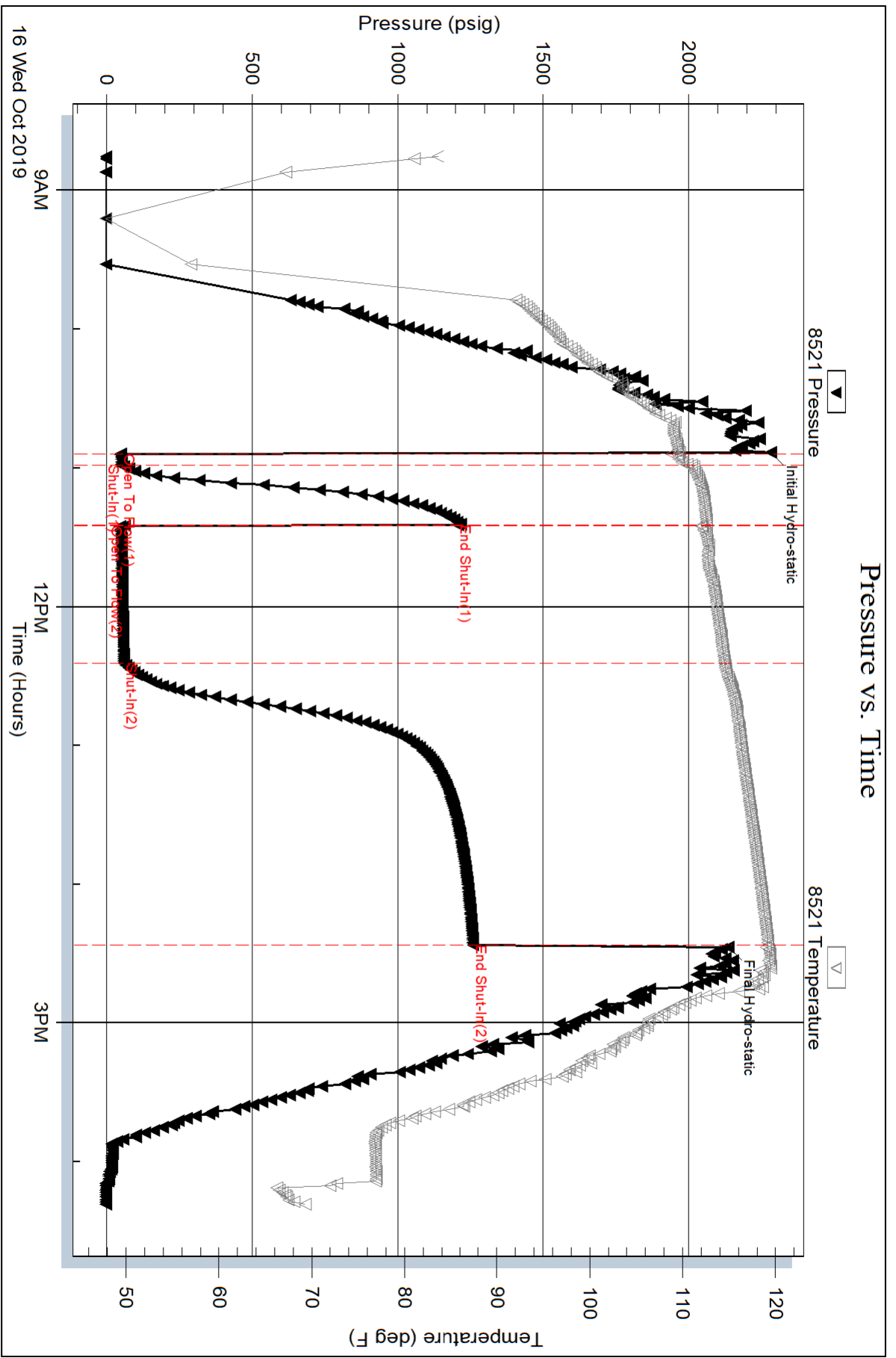
Serial #: 8521

Inside

Mull Drilling Company Inc.

Muchmore-Thornburg

DST Test Number: 3

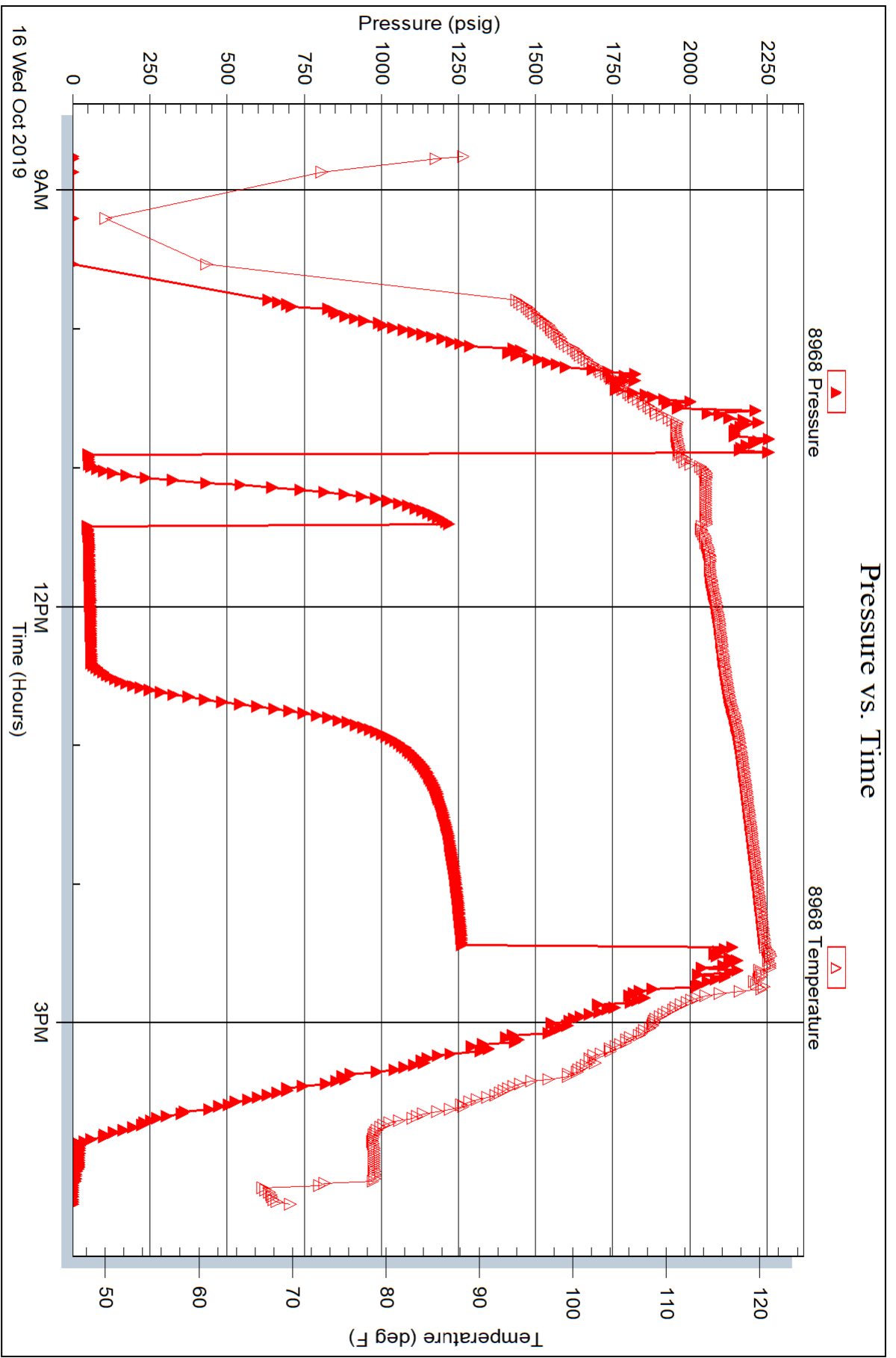


Serial #: 8968

Outside Mull Drilling Company Inc.

Muchmore-Thornburg

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63936

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