



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

M&M Exploration
 4257 Main st #230
 Westminster CO, 80031
 ATTN: Mike Austin

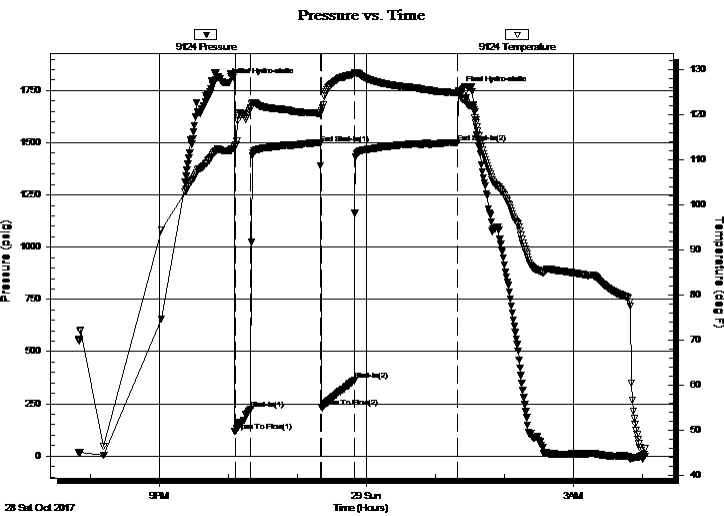
15w/24s/2 Harvey KS
Stutzman #1
 Job Ticket: 62010 **DST#: 1**
 Test Start: 2017.10.28 @ 19:50:00

GENERAL INFORMATION:

Formation: **Hunton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:57:20 Tester: Jason Cash/Jimmy Ric
 Time Test Ended: 04:01:50 Unit No: #80
 Interval: **3748.00 ft (KB) To 3779.00 ft (KB) (TVD)** Reference Elevations: 1410.00 ft (KB)
 Total Depth: 3779.00 ft (KB) (TVD) 1402.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

Serial #: 9124 Inside
 Press@RunDepth: 361.90 psig @ 3749.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.10.28 End Date: 2017.10.29 Last Calib.: 1899.12.30
 Start Time: 19:50:05 End Time: 04:01:50 Time On Btm: 2017.10.28 @ 21:57:20
 Time Off Btm: 2017.10.29 @ 01:20:20

TEST COMMENT: IF- Weak Blow Building to strong blow 7 minutes into initial flow period.
 FF-Weak Blow Building to strong blow 7 minutes into final flow period.
 FS-1 1/2 inch blow back during final shut-in period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.41	111.95	Initial Hydro-static
9	116.86	112.98	Open To Flow (1)
23	223.18	121.56	Shut-In(1)
83	1497.25	120.30	End Shut-In(1)
84	233.41	120.86	Open To Flow (2)
113	361.90	128.92	Shut-In(2)
202	1500.08	124.80	End Shut-In(2)
203	1749.97	124.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
325.00	Mud cut w ater 93%W &7%M	2.92
120.00	Heavy mud cut w ater 60%W&40%M	1.68
120.00	Heavy w ater cut mud 30%W&70%M	1.68
90.00	Drilling mud 100%M	1.26

Gas Rates

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



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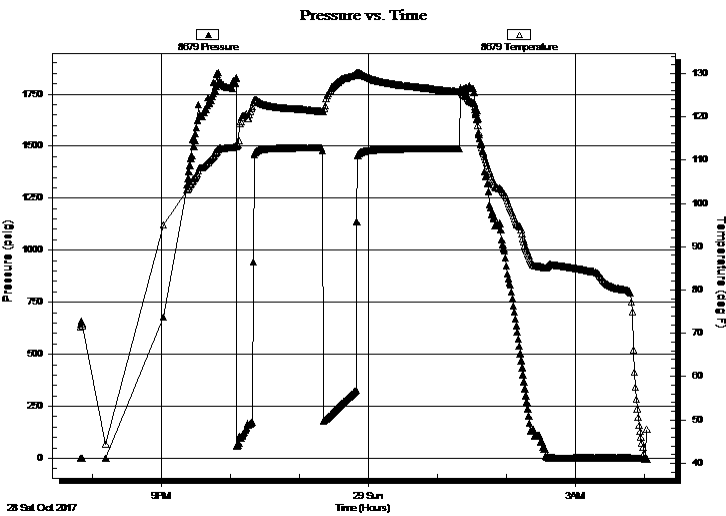
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Interval: **3748.00 ft (KB) To 3779.00 ft (KB) (TVD)**
Total Depth: 3779.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jason Cash/Jimmy Ric
Unit No: #80
Reference Elevations: 1410.00 ft (KB)
1402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8679 Outside
Press@RunDepth: psig @ 3749.00 ft (KB)
Start Date: 2017.10.28 End Date: 2017.10.29
Start Time: 19:50:05 End Time: 04:01:50
Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Weak Blow Building to strong blow 7 minutes into initial flow period.
FF- Weak Blow Building to strong blow 7 minutes into final flow period.
FS- 1 1/2 inch blow back during final shut-in period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
325.00	Mud cut w ater 93%W &7%M	2.92
120.00	Heavy mud cut w ater 60%W&40%M	1.68
120.00	Heavy w ater cut mud 30%W&70%M	1.68
90.00	Drilling mud 100%M	1.26

Gas Rates

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



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FLUID SUMMARY

M&M Exploration
4257 Main st #230
Westminster CO, 80031
ATTN: Mike Austin

15w/24s/2 Harvey KS
Stutzman #1
Job Ticket: 62010 **DST#: 1**
Test Start: 2017.10.28 @ 19:50:00

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: 105000 ppm	
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

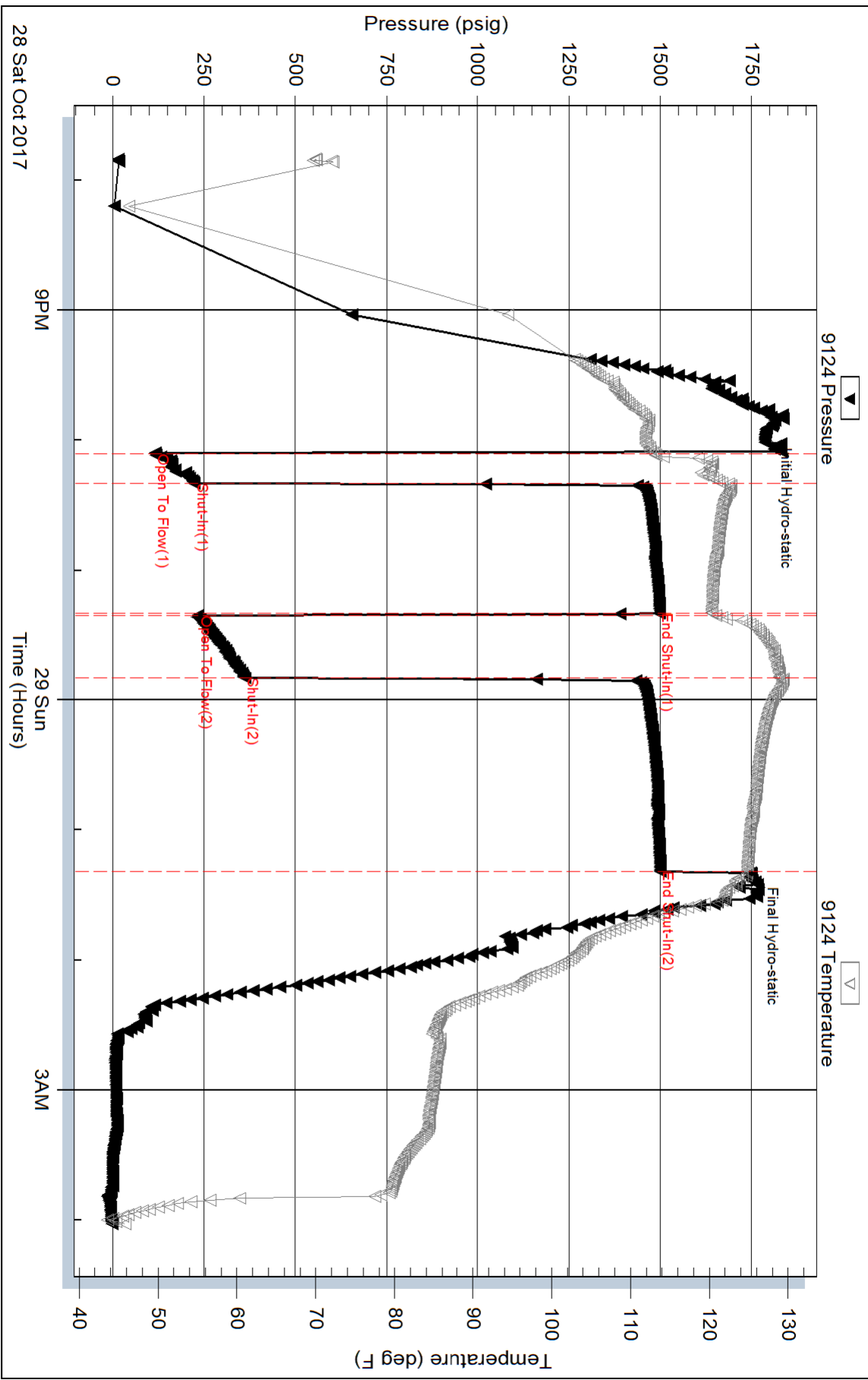
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
325.00	Mud cut w ater 93%W &7%M	2.915
120.00	Heavy mud cut w ater 60%W&40%M	1.683
120.00	Heavy w ater cut mud 30%W&70%M	1.683
90.00	Drilling mud 100%M	1.262

Total Length: 655.00 ft Total Volume: 7.543 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



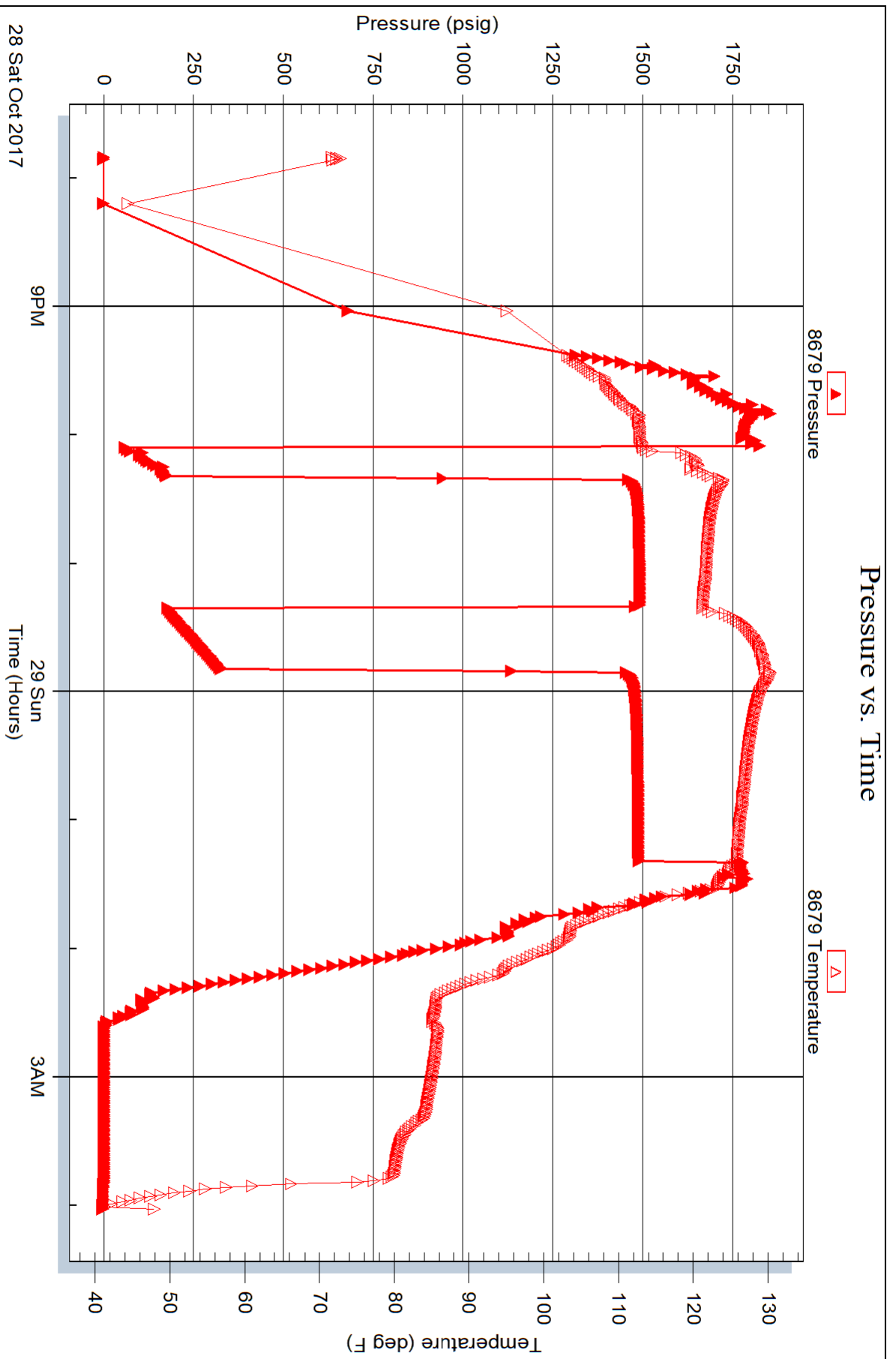
Serial #: 8679

Outside

M&M Exploration

Stutzman #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62010

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