



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

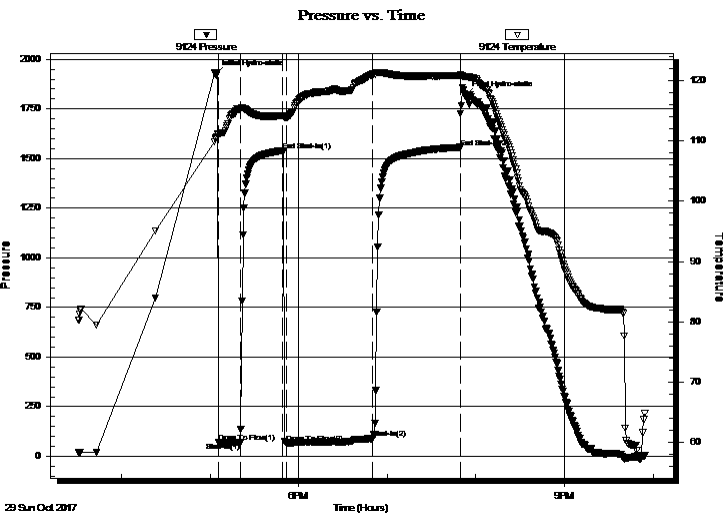
15w/24s/2 Harvey KS
Stutzman #1
Job Ticket: 62011 **DST#: 2**
Test Start: 2017.10.29 @ 15:31:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 17:05:40 Tester: Jason Cash
Time Test Ended: 21:54:39 Unit No: 80
Interval: 3862.00 ft (KB) To 3876.00 ft (KB) (TVD) Reference Elevations: 1410.00 ft (KB)
Total Depth: 3876.00 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: 89.39 psig @ 3863.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.10.29 End Date: 2017.10.29 Last Calib.: 1899.12.30
Start Time: 15:31:05 End Time: 21:54:39 Time On Btm: 2017.10.29 @ 17:04:00
Time Off Btm: 2017.10.29 @ 19:52:39

TEST COMMENT: IF-Weak blow building to 1 inch during initial flow period.
FF-Weak blow building to 2 inches during final flow period.



PRESSURE SUMMARY

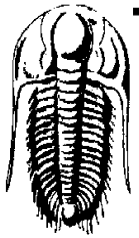
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.00	110.45	Initial Hydro-static
2	69.60	110.95	Open To Flow (1)
17	69.53	115.27	Shut-In(1)
46	1541.50	114.20	End Shut-In(1)
48	65.35	113.87	Open To Flow (2)
106	89.39	121.04	Shut-In(2)
166	1556.91	120.83	End Shut-In(2)
169	1818.71	120.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Heavy water cut mud 29%W & 71%M	0.52

Gas Rates

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



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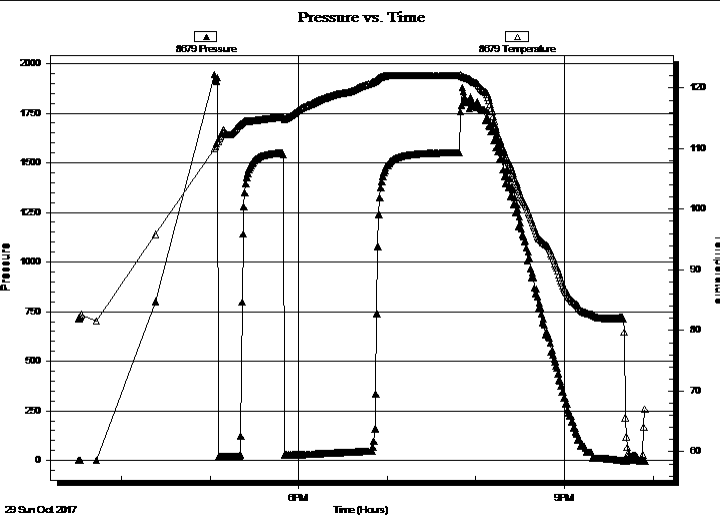
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Time Test Ended: 21:54:39	Reference Elevations: 1410.00 ft (KB)
Interval: 3862.00 ft (KB) To 3876.00 ft (KB) (TVD)	1402.00 ft (CF)
Total Depth: 3876.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Poor

Serial #: 8679	Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3863.00 ft (KB)	Start Date: 2017.10.29	Last Calib.: 1899.12.30
End Date: 2017.10.29	End Time: 21:54:39	Time On Btm:
Start Time: 15:31:05	Time Off Btm:	

TEST COMMENT: IF-Weak blow building to 1 inch during initial flow period.
FF-Weak blow building to 2 inches during final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Heavy water cut mud 29%W & 71%M	0.52

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

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

15w/24s/2 Harvey KS
Stutzman #1
Job Ticket: 62011 **DST#: 2**
Test Start: 2017.10.29 @ 15:31:00

Mud and Cushion Information

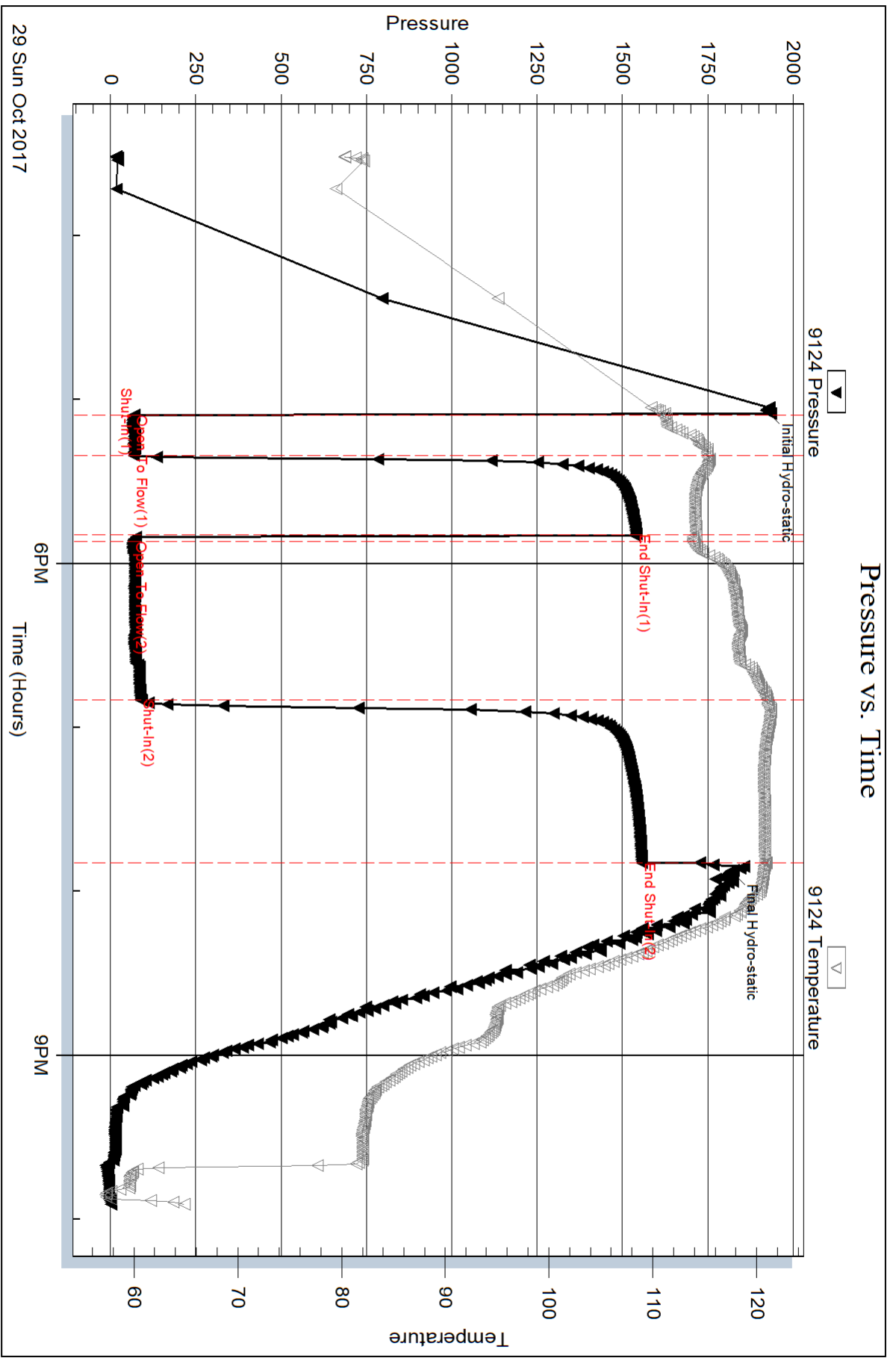
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	27000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Heavy water cut mud 29%W &71%M	0.522

Total Length: 70.00 ft Total Volume: 0.522 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



Serial #: 8679

Outside M&M Exploration

Stutzman #1

DST Test Number: 2

