



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

12-16s-16w

1515 Wynkoop ste 700
Denver Co 80202

Tuzicka 1-12

Job Ticket: 041057

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.07.09 @ 05:16:04

GENERAL INFORMATION:

Formation: **Lansing-C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:12:28

Time Test Ended: 13:54:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 67

Interval: **3177.00 ft (KB) To 3207.00 ft (KB) (TVD)**

Reference Elevations: 1892.00 ft (KB)

Total Depth: 3207.00 ft (KB) (TVD)

1882.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8679

Inside

Press @ Run Depth: 254.65 psig @ 3179.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.09

End Date:

2013.07.09

Last Calib.:

2013.07.09

Start Time: 05:16:05

End Time:

13:46:28

Time On Btm:

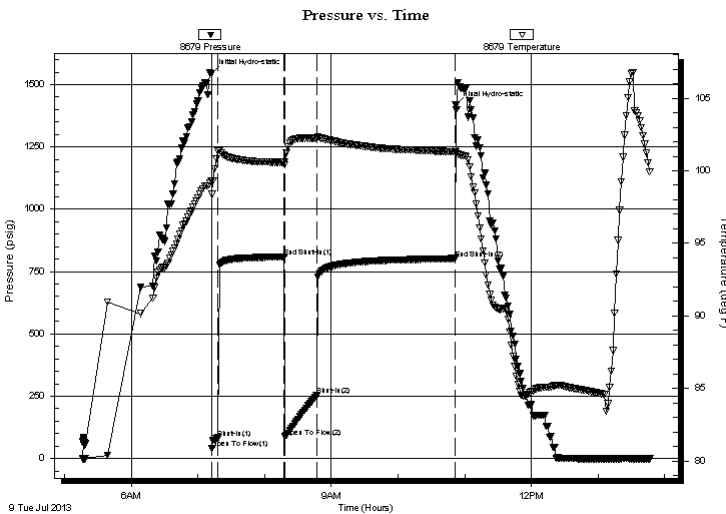
2013.07.09 @ 07:11:58

Time Off Btm:

2013.07.09 @ 10:51:58

TEST COMMENT: IFP=5-Min=Strong blow BOB in 5 min
ISI=60-min=Weak surface blow back Died out in 12 min
FFP=30-min=Strong blow BOB in 4 min
FSI=120-min=Good blow back BOB in 16 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1545.35	99.31	Initial Hydro-static
1	40.12	98.38	Open To Flow (1)
6	82.93	101.40	Shut-In(1)
66	808.49	100.60	End Shut-In(1)
66	86.75	100.40	Open To Flow (2)
95	254.65	102.22	Shut-In(2)
220	802.10	101.33	End Shut-In(2)
220	1417.66	101.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	MW with a scum of oil 5%M 95%W	5.30
86.00	GOCMW 20%G 10%O 25%M 45%W	1.21
40.00	GMCWO 10%G 5%M 25%W 60%O	0.56
0.00	315-GIP	0.00

Gas Rates

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



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Total Depth: 3207.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 67

Reference Elevations: 1892.00 ft (KB)

1882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8167

Fluid

Press@RunDepth: psig @ 3143.00 ft (KB)

Start Date: 2013.07.09

End Date:

2013.07.09

Start Time: 05:16:29

End Time:

13:48:23

Capacity: 8000.00 psig

Last Calib.:

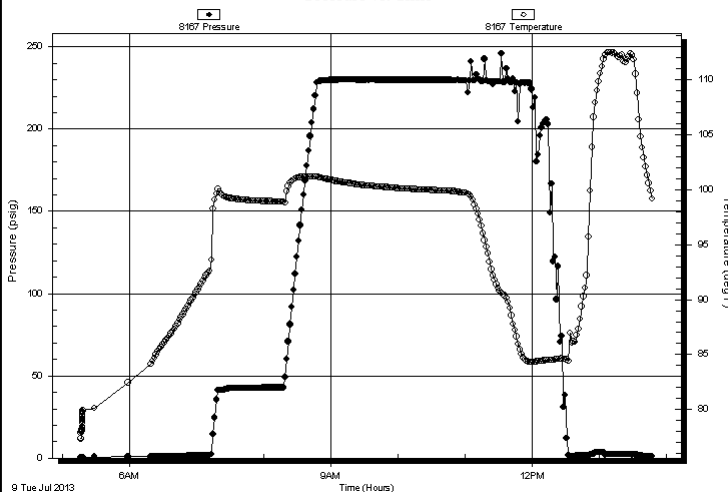
2013.07.09

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP=5-Min=Strong blow BOB in 5 min
 ISI=60-min=Weak surface blow back Died out in 12 min
 FFP=30-min=Strong blow BOB in 4 min
 FSI=120-min=Good blow back BOB in 16 min

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
378.00	MW with a scum of oil 5%M 95%W	5.30
86.00	GOCMW 20%G 10%O 25%M 45%W	1.21
40.00	GMCWO 10%G 5%M 25%W 60%O	0.56
0.00	315-GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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1515 Wynkoop ste 700
Denver Co 80202

Tuzicka 1-12

Job Ticket: 041057

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.07.09 @ 05:16:04

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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
378.00	MW with a scum of oil 5%M 95%W	5.302
86.00	GOCMW 20%G 10%O 25%M 45%W	1.206
40.00	GMCWO 10%G 5%M 25%W 60%O	0.561
0.00	315-GIP	0.000

Total Length: 504.00 ft Total Volume: 7.069 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

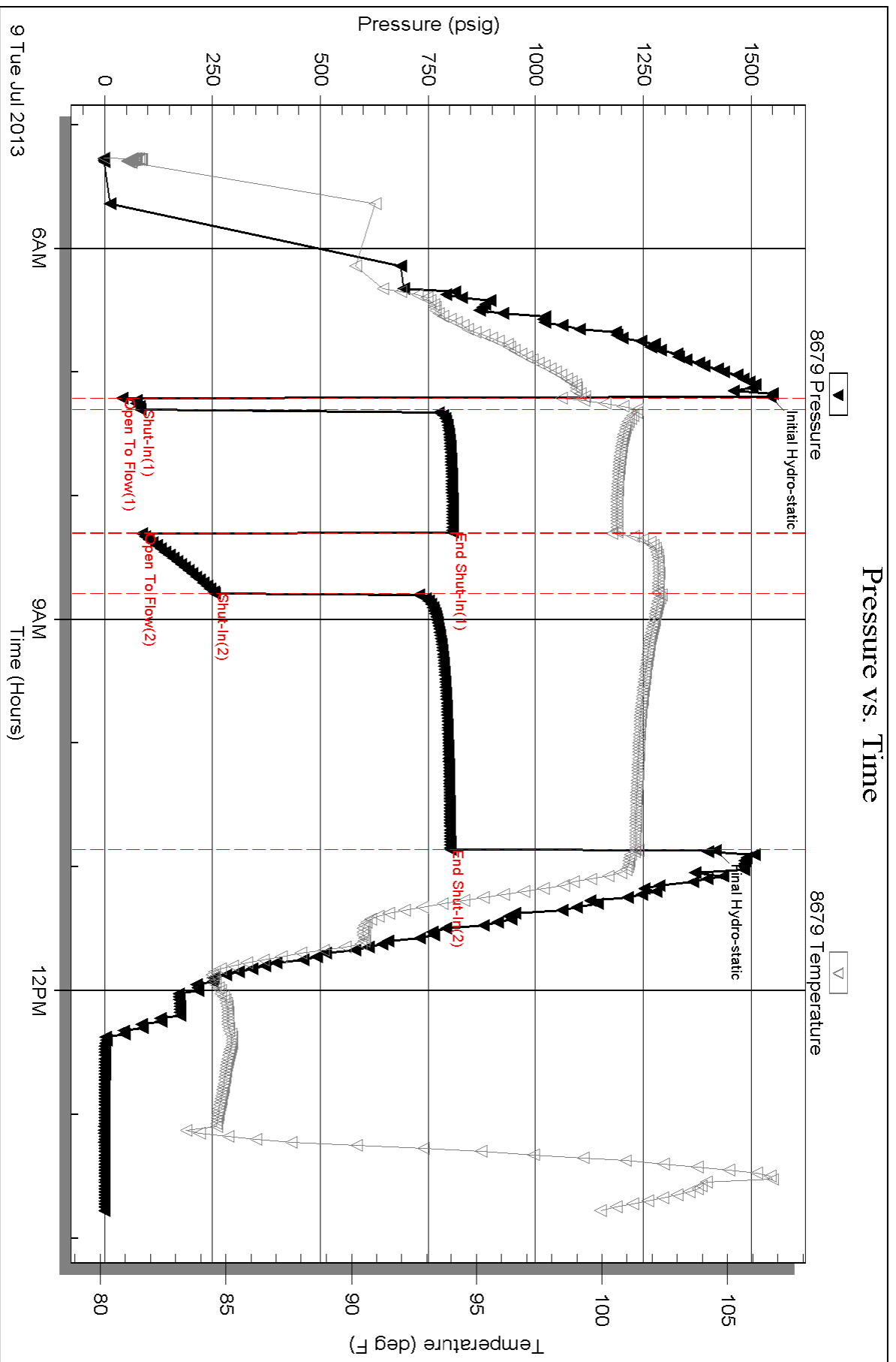
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 MI of total fluid. 300 PSI
2000 MI Of oil. 2000 MI of Gas

Pressure vs. Time



Serial #: 8167

Fluid

Samuel Gary Jr & Associates

Tuzicka 1-12

DST Test Number: 1

