



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**21-12-16 Ellis, KS**

1515 Wynkoop, Ste 700  
Denver, CO 80202

**Donald 1-21**

Job Ticket: 50822

**DST#: 1**

ATTN: Chris Mitchell

Test Start: 2013.08.08 @ 16:15:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:00

Time Test Ended: 22:24:00

Test Type: (Initial)

Tester: Brannan L

Unit No: 67

**Interval: 3182.00 ft (KB) To 3246.00 ft (KB) (TVD)**

Reference Elevations: 2017.00 ft (KB)

Total Depth: 3246.00 ft (KB) (TVD)

2009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8679

## Fluid

Press @ Run Depth: 190.04 psig @ 3147.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.08

End Date: 2013.08.08

Last Calib.: 2013.08.08

Start Time: 16:15:01

End Time: 22:24:00

Time On Btm: 2013.08.08 @ 17:54:30

Time Off Btm: 2013.08.08 @ 20:23:30

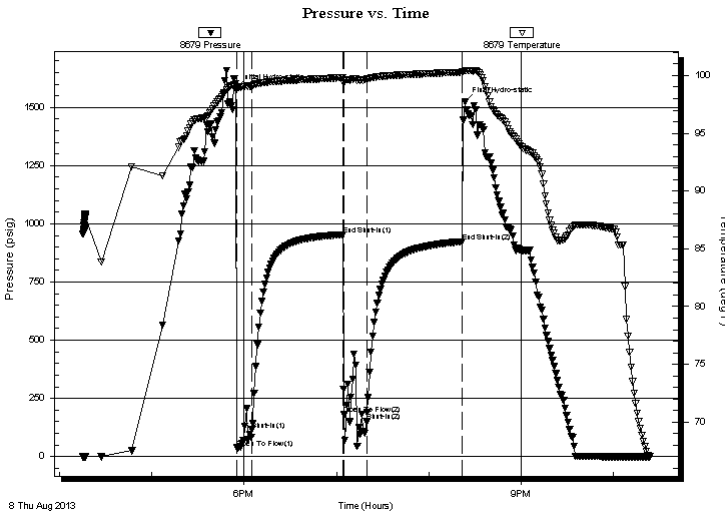
## TEST COMMENT: 10- IF- .5"

60- IS- No blow

15- FF- No blow

60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.64	99.28	Initial Hydro-static
1	37.22	98.88	Open To Flow (1)
11	114.30	99.11	Shut-In(1)
70	953.37	99.82	End Shut-In(1)
71	180.10	99.61	Open To Flow (2)
86	190.04	99.68	Shut-In(2)
147	923.73	100.29	End Shut-In(2)
149	1523.43	100.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M, 100%M	0.07

## Gas Rates

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







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## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M, 100%M	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mLM@220PSI

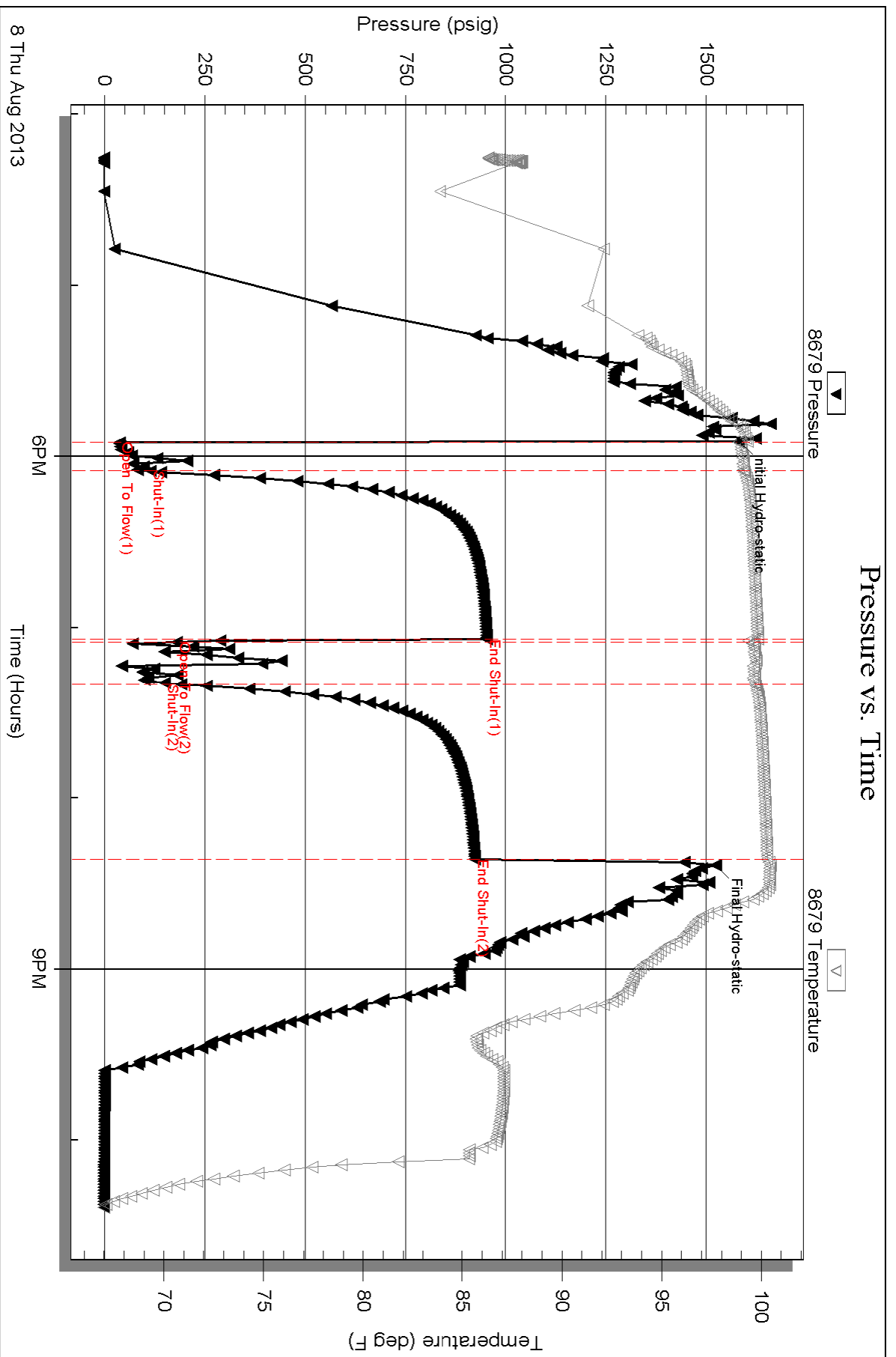
Serial #: 8679

Fluid

Samuel Gary Jr. & Associates, Inc.

Donald 1-21

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50822

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