



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**26 4s 23w Norton**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**Sproul Knappe 1-26**

Job Ticket: 53816

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2013.06.14 @ 01:45:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:40

Time Test Ended: 10:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 41

**Interval: 3416.00 ft (KB) To 3468.00 ft (KB) (TVD)**

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3468.00 ft (KB) (TVD)

2325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8322 Outside**

Press @ Run Depth: 93.85 psig @ 3432.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.14

End Date:

2013.06.14

Last Calib.:

2013.06.14

Start Time: 01:45:01

End Time:

10:04:50

Time On Btm:

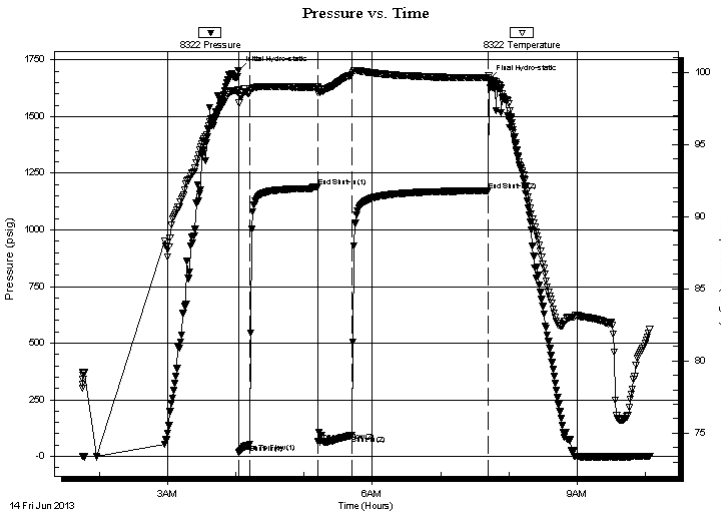
2013.06.14 @ 04:02:30

Time Off Btm:

2013.06.14 @ 07:42:20

**TEST COMMENT:** 10-IFP- Surface Blow Building to 4 in,  
60-ISIP- No Blow  
30-FFP- Surface Blow Building to 9 1/2 in.  
120-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.71	98.80	Initial Hydro-static
1	19.68	97.85	Open To Flow (1)
10	54.23	98.54	Shut-In(1)
70	1189.42	98.96	End Shut-In(1)
70	67.82	98.59	Open To Flow (2)
100	93.85	99.81	Shut-In(2)
220	1173.30	99.60	End Shut-In(2)
220	1661.67	99.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	MCW 20% m 80% w	0.67
102.00	WCM 25% w 75% m Show of Oil	1.43

## Gas Rates

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





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**FLUID SUMMARY**

Samuel Gary Jr. and Associates, Inc.

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Denver, CO 80202

**Sproul Knappe 1-26**

Job Ticket: 53816

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2013.06.14 @ 01:45:00

## 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:

64000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	MCW 20%m 80%w	0.667
102.00	WCM 25%w 75%m Show of Oil	1.431

Total Length: 169.00 ft      Total Volume: 2.098 bbl

Num Fluid Samples: 0

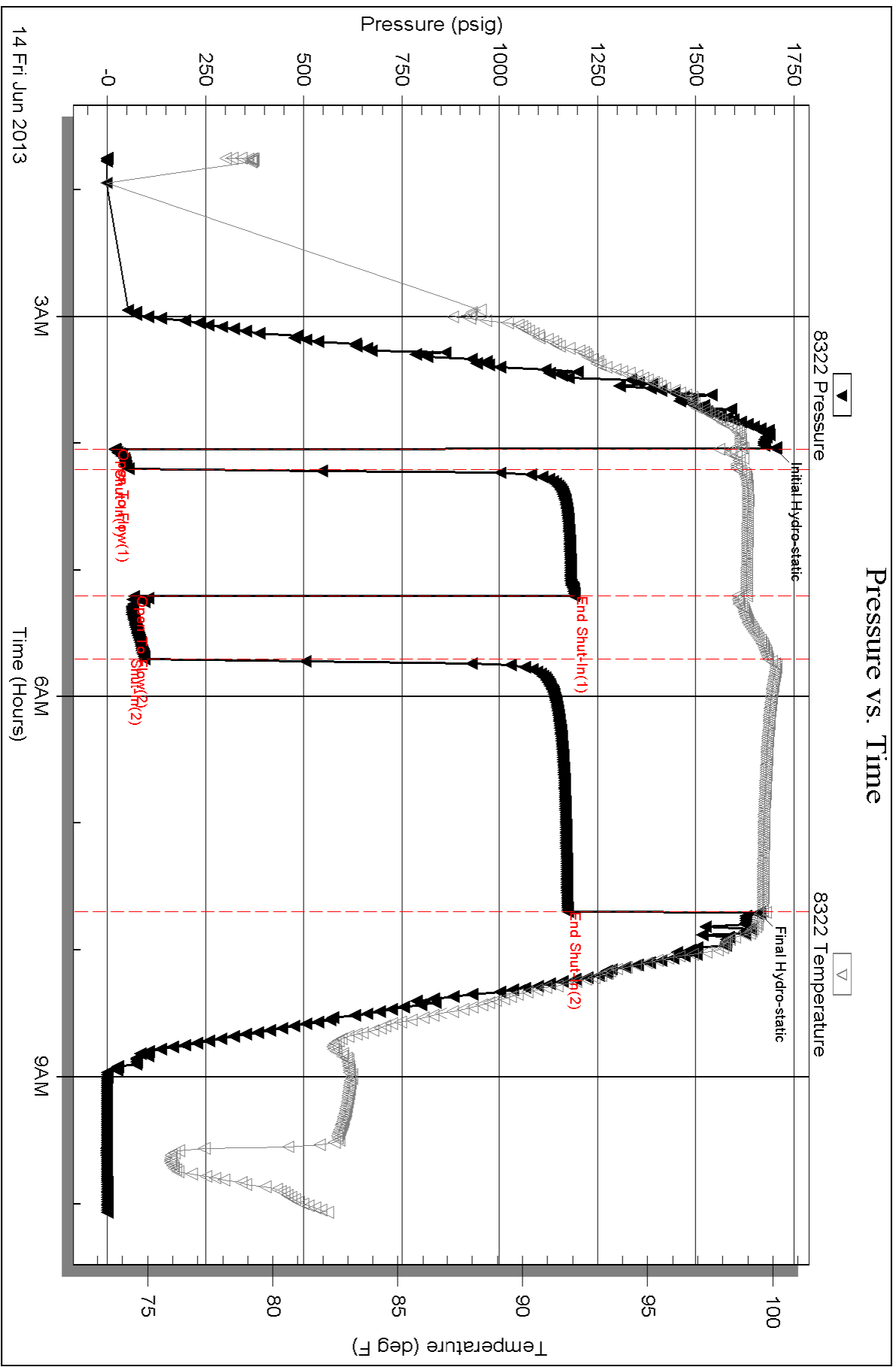
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER .112 @ 78 = 64000



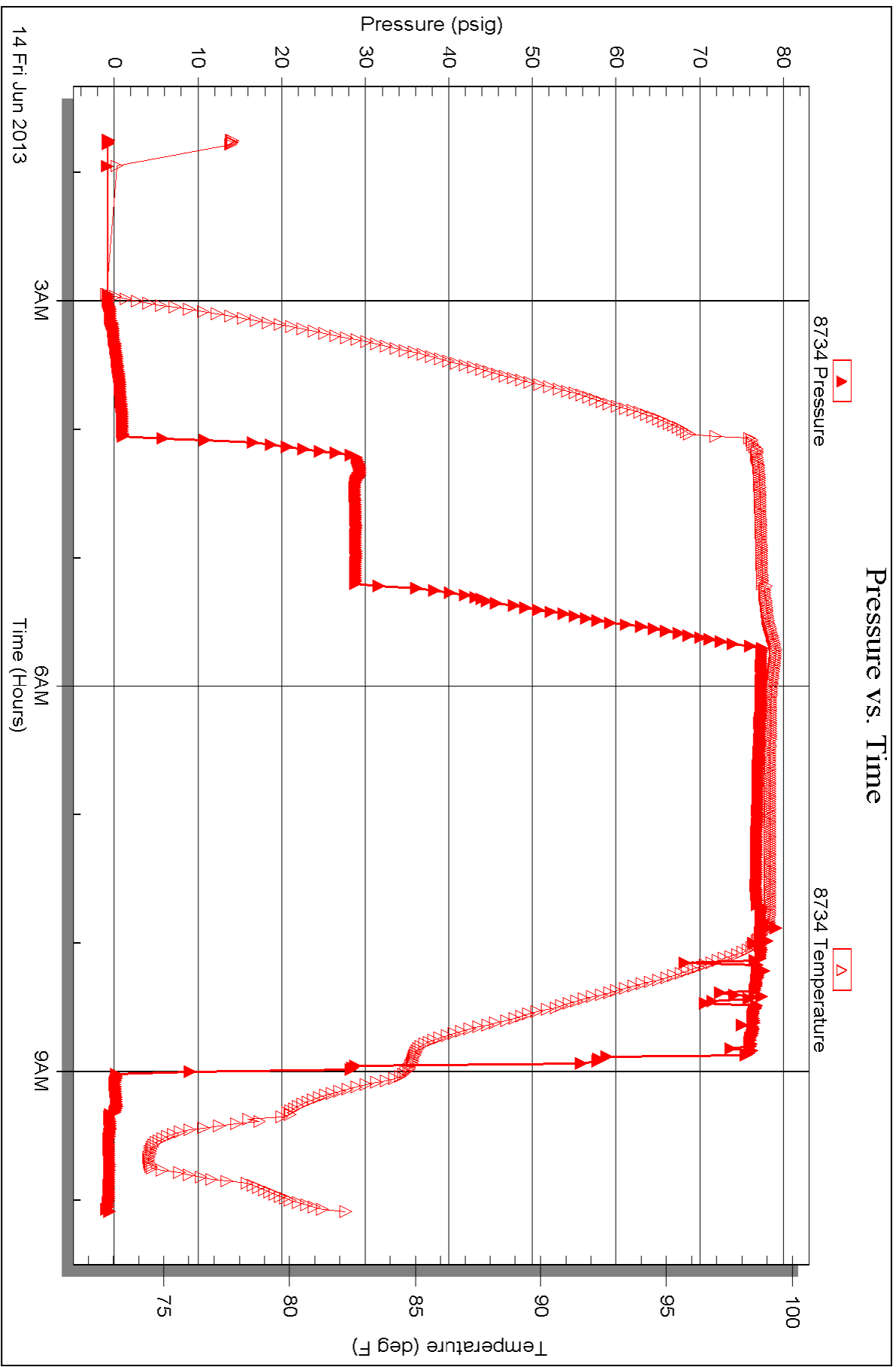
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Sproull Knape 1-26

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53816

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