



**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: 53817

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.06.15 @ 07:10:00

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: 2333.00 ft (KB)

Time Tool Opened: 09:50:20

Time Test Ended: 15:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3691.00 ft (KB) To 3721.00 ft (KB) (TVD)

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3721.00 ft (KB) (TVD)

2325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 17.94 psig @ 3718.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.15 End Date: 2013.06.15

Last Calib.: 2013.06.15

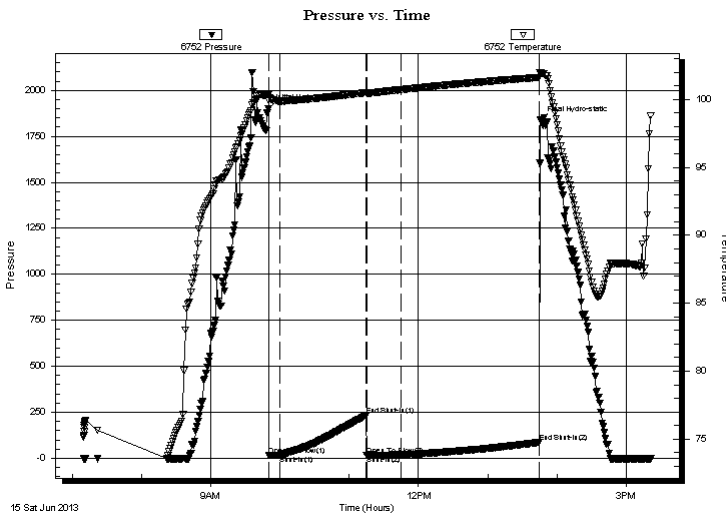
Start Time: 07:10:01 End Time: 15:21:40

Time On Btm: 2013.06.15 @ 09:50:10

Time Off Btm: 2013.06.15 @ 13:45:30

TEST COMMENT: 10-IFP- Very Weak Surging Blow When Cradled Tube
75-ISIP- No Blow
30-FFP- Good Surge on Open No Blow Unless Cradled Tube
120-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.01	100.38	Initial Hydro-static
1	16.06	99.93	Open To Flow (1)
10	18.04	99.88	Shut-In(1)
85	232.82	100.51	End Shut-In(1)
85	17.74	100.44	Open To Flow (2)
115	17.94	100.72	Shut-In(2)
235	86.84	101.62	End Shut-In(2)
236	1837.75	101.99	Final Hydro-static

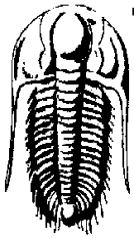
Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



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GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: 2333.00 ft (KB)

Time Tool Opened: 09:50:20

Time Test Ended: 15:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: **3691.00 ft (KB) To 3721.00 ft (KB) (TVD)**

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3721.00 ft (KB) (TVD)

2325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8734

Fluid

Press @ RunDepth: psig @ 3657.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.15

End Date: 2013.06.15

Last Calib.: 2013.06.15

Start Time: 07:10:01

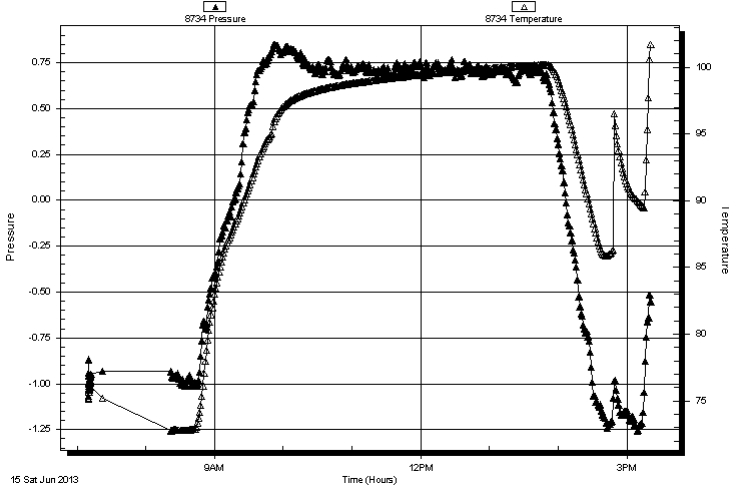
End Time: 15:21:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IFP- Very Weak Surging Blow When Cradled Tube
75-ISIP- No Blow
30-FFP- Good Surge on Open No Blow Unless Cradled Tube
120-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

26 4s 23w Norton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Sproul Knappe 1-26

Job Ticket: 53817

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.06.15 @ 07:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

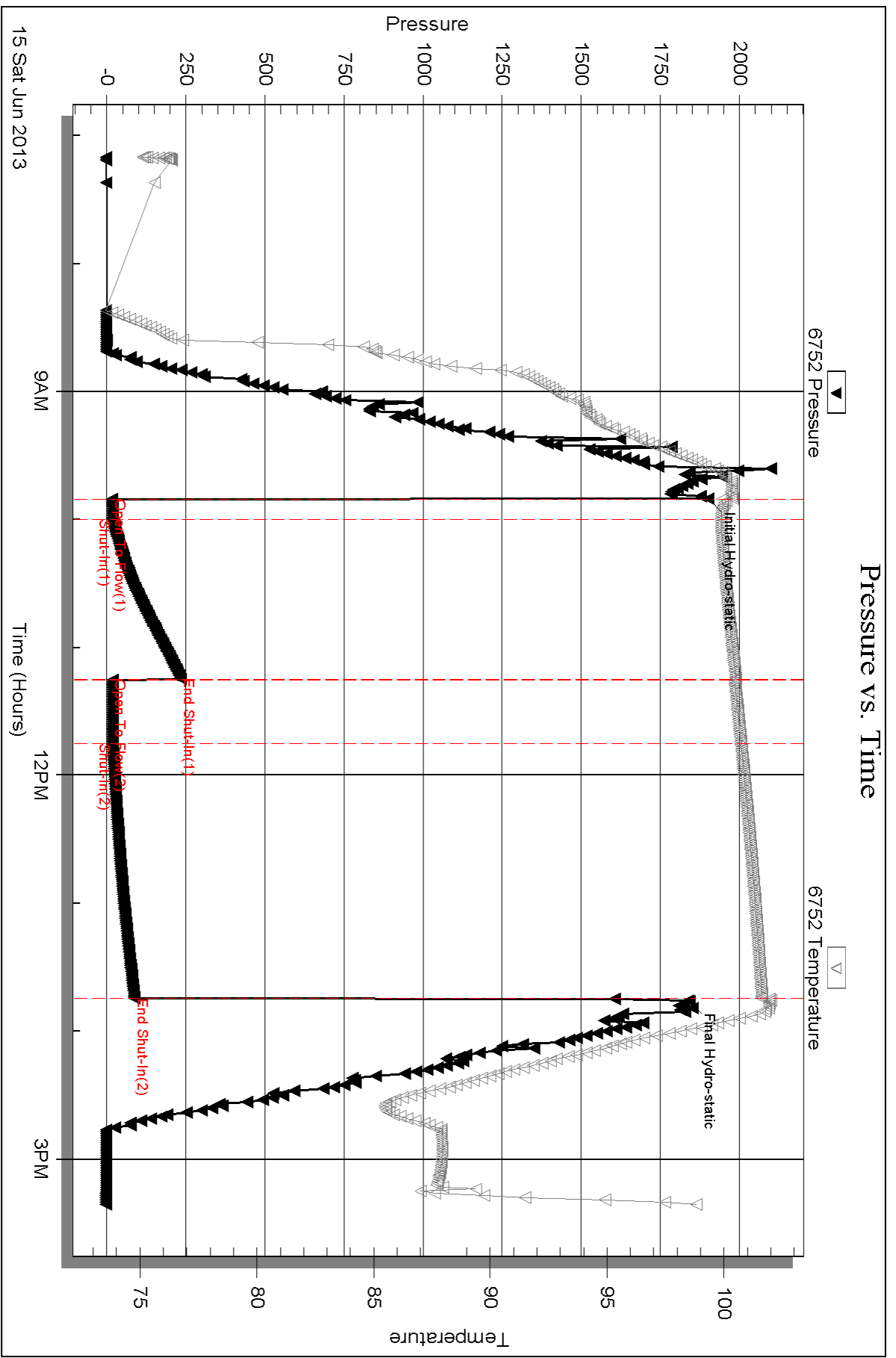
Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



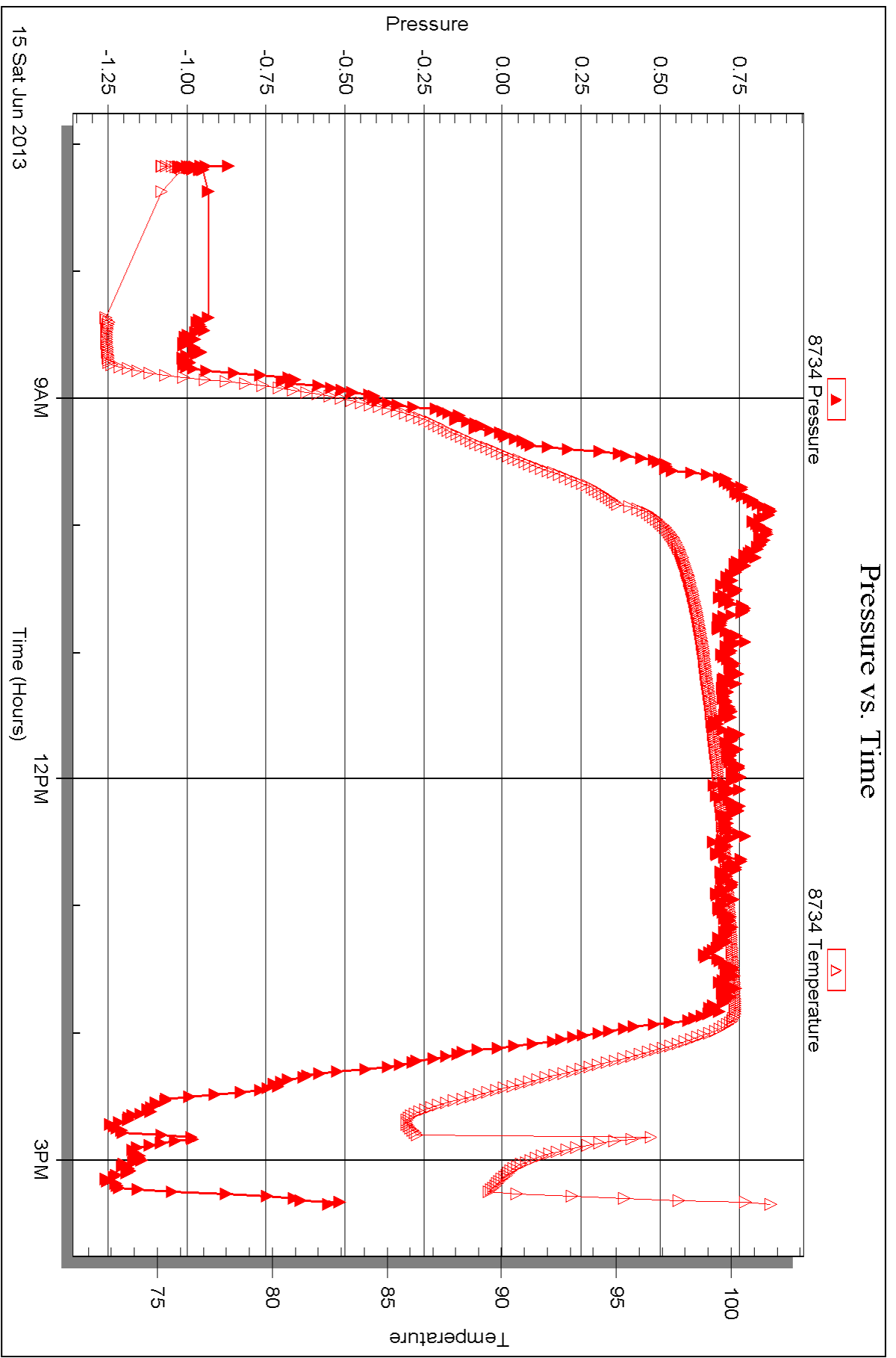
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Sproull Knape 1-26

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53817

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