

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

12-15-16 Ellis, KS

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

Truan 1-12

Job Ticket: 54438

DST#: 4

Test Start: 2013.09.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:10:15

Time Test Ended: 02:34:30

Test Type: Conventional Straddle (Reset)

Tester: Brannan L

Unit No: 53

Interval: 3426.00 ft (KB) To 3435.00 ft (KB) (TVD)

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8648

Inside

Press @ Run Depth: 91.19 psig @ 3427.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.12

End Date:

2013.09.13

Last Calib.:

2013.09.13

Start Time: 17:10:05

End Time:

02:34:30

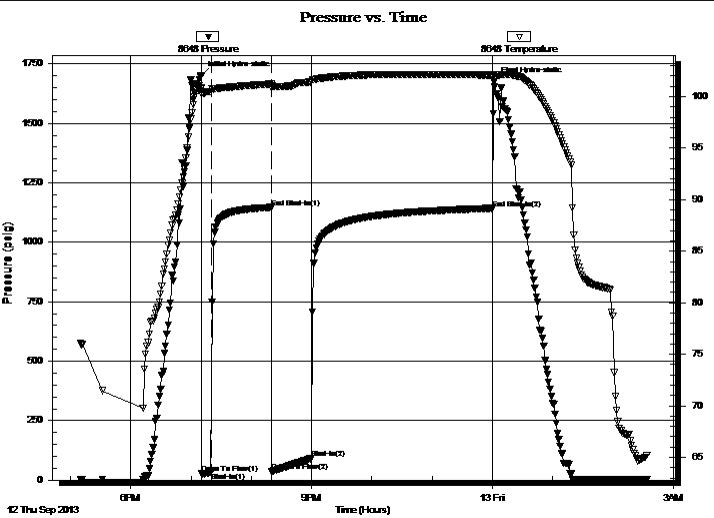
Time On Btm:

2013.09.12 @ 19:10:00

Time Off Btm:

2013.09.13 @ 00:01:30

TEST COMMENT: 010- IF- Built to 3"
060- IS- No blow
040- FF- Built to 11"
180- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.48	100.75	Initial Hydro-static
1	27.28	100.24	Open To Flow (1)
11	34.35	100.51	Shut-In(1)
70	1147.21	101.22	End Shut-In(1)
71	36.14	100.87	Open To Flow (2)
110	91.19	101.43	Shut-In(2)
290	1142.98	102.09	End Shut-In(2)
292	1675.39	102.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW w/ show of oil, 10%M 90%W	2.05

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 54438

DST#: 4

Test Start: 2013.09.12 @ 17:10:00

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:

2300 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
150.00	MW w/ show of oil, 10%M 90%W	2.049

Total Length: 150.00 ft Total Volume: 2.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

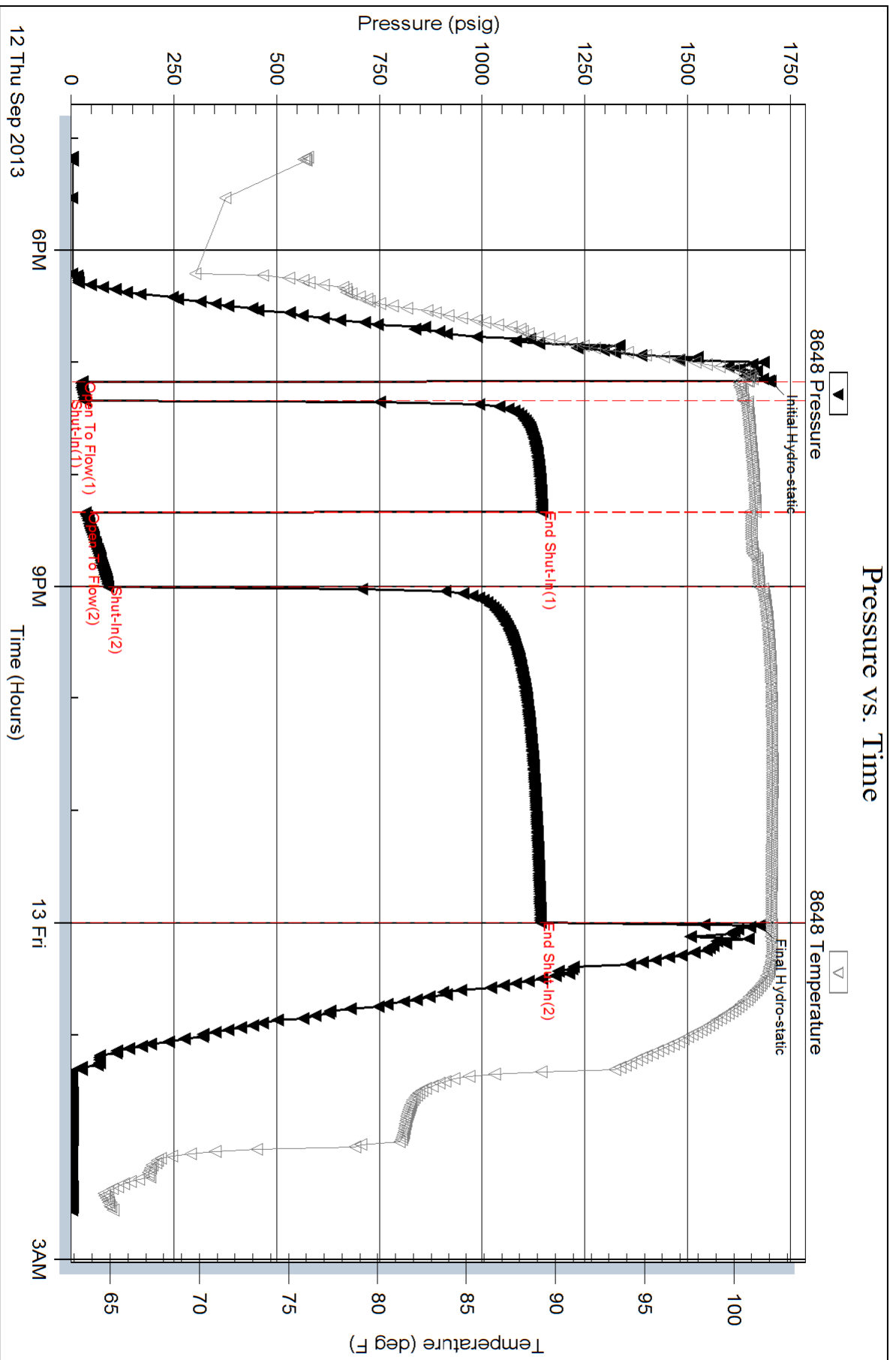
Serial #:

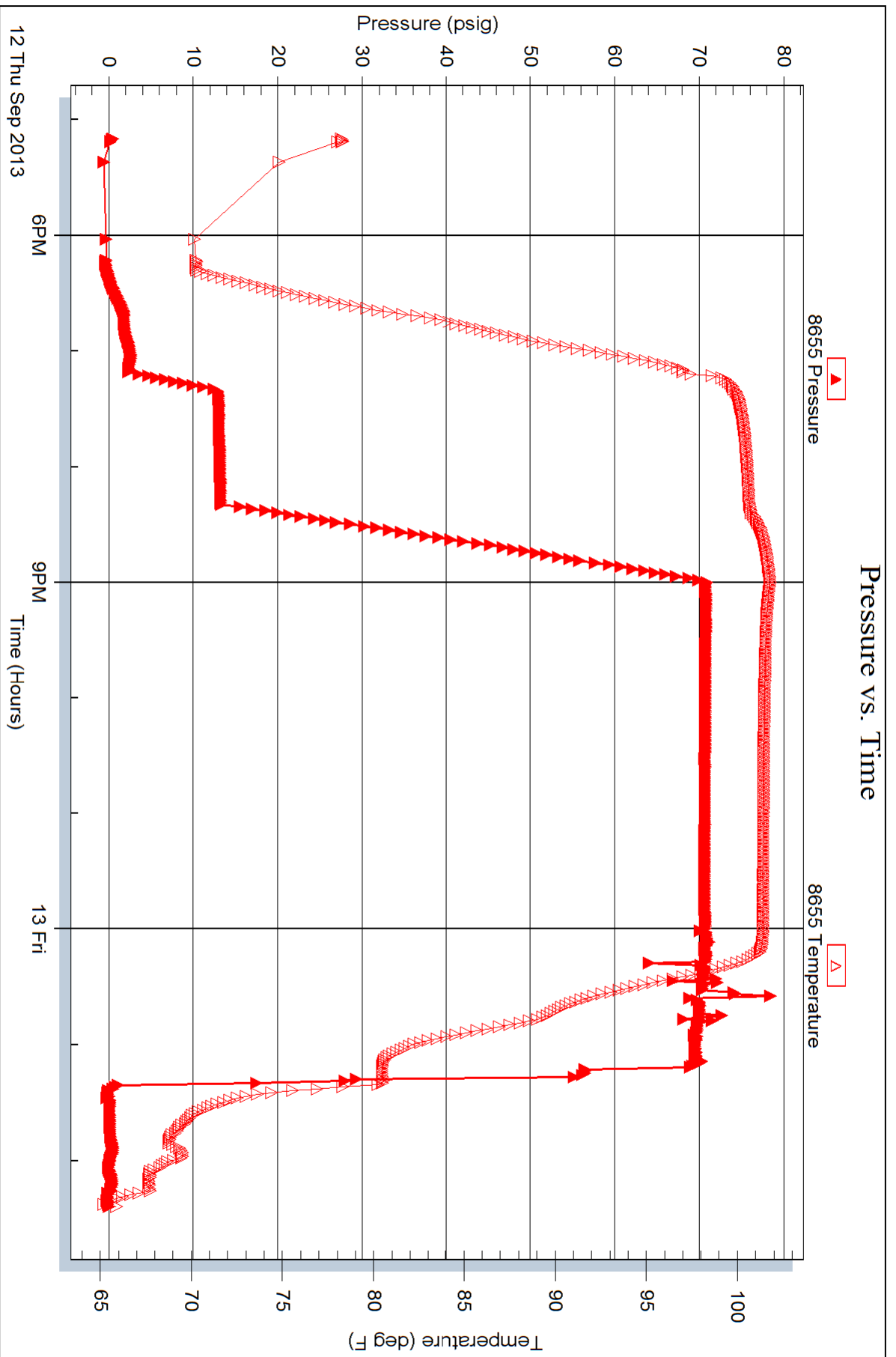
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mLW w/ show of oil @ 300psi

Pressure vs. Time





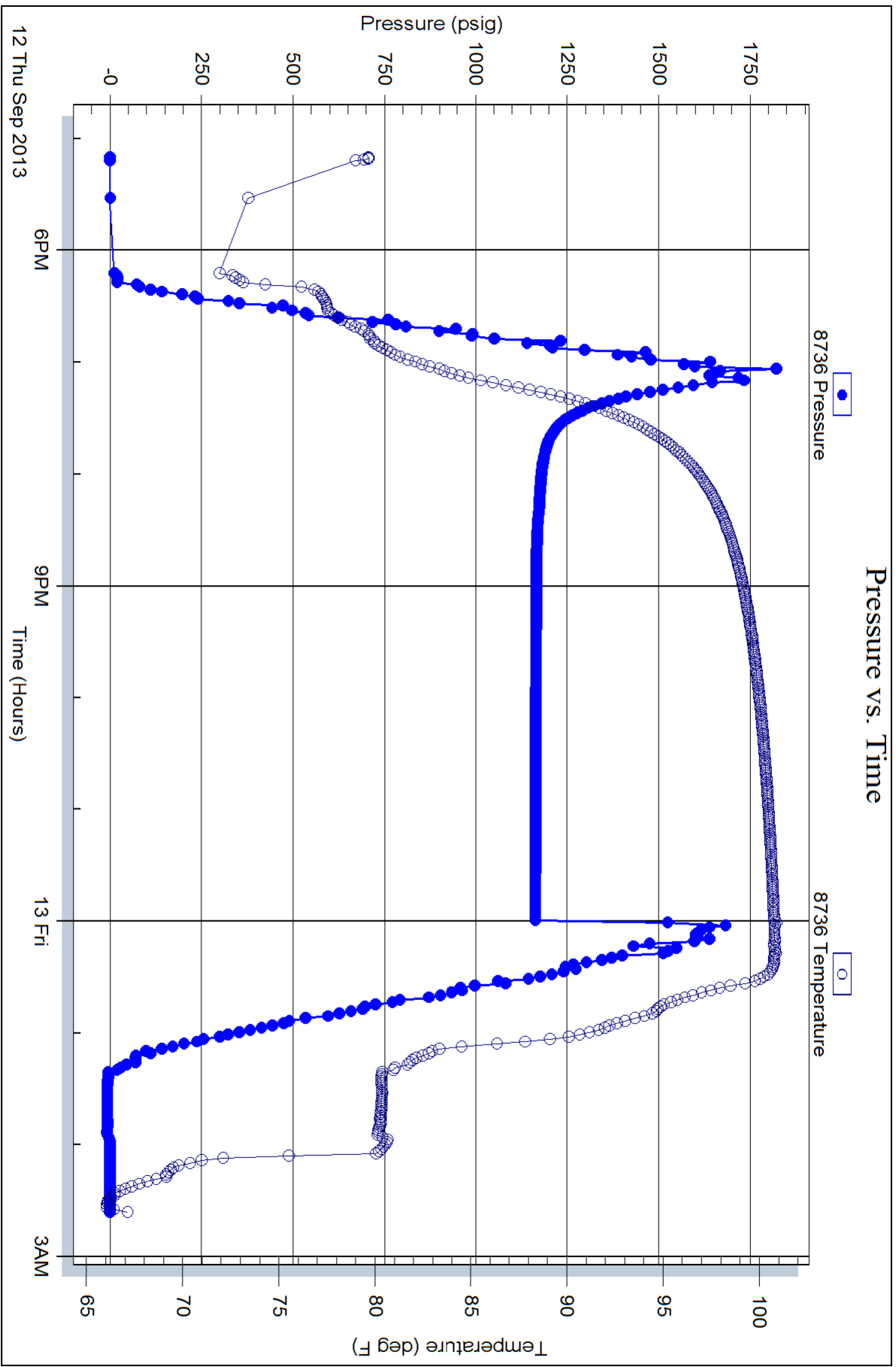
Serial #: 8736

Fluid

Samuel Gary Jr. & Associates, Inc

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DST Test Number: 4



Triobite Testing, Inc

Ref. No: 54438

Printed: 2013.09.13 @ 07:48:43