



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

S17-5S-23W Norton, KS

1515 Wynkoop STE 700
Denver CO 80202

Schuckman #1-17

ATTN: Jim C. Musgrove

Job Ticket: 63205

DST#: 2

Test Start: 2017.04.25 @ 19:44:00

GENERAL INFORMATION:

Formation: **LKC 'D-F'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:01:45
 Tester: Spencer J. Staab
 Time Test Ended: 03:52:45
 Unit No: 84
 Interval: **3408.00 ft (KB) To 3450.00 ft (KB) (TVD)**
 Reference Elevations: 2203.00 ft (KB)
 Total Depth: 3450.00 ft (KB) (TVD)
 2195.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

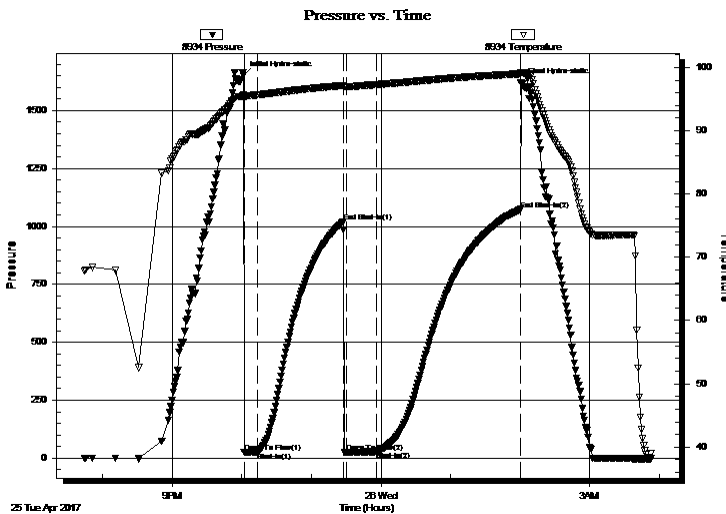
Serial #: 8934

Inside

Press@RunDepth: 28.36 psig @ 3413.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.04.25 End Date: 2017.04.26 Last Calib.: 2017.04.26
 Start Time: 19:44:15 End Time: 03:52:45 Time On Btm: 2017.04.25 @ 22:01:15
 Time Off Btm: 2017.04.26 @ 02:01:00

TEST COMMENT: 10-IF-Weak Blow ; Built from a surface to a 1"
 75-ISI-No Blow Back
 30-FF-No Blow
 120-FSI-No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.52	95.60	Initial Hydro-static
1	25.49	95.26	Open To Flow (1)
12	25.99	95.66	Shut-In(1)
86	1021.21	97.16	End Shut-In(1)
89	26.08	96.94	Open To Flow (2)
115	28.36	97.29	Shut-In(2)
239	1073.66	98.99	End Shut-In(2)
240	1621.80	99.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 5% O 95% M	0.11

Gas Rates

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

* Recovery from multiple tests



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Tester: Spencer J. Staab

Unit No: 84

Interval: 3408.00 ft (KB) To 3450.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2203.00 ft (KB)

2195.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 9120

Inside

Press@RunDepth: psig @ 3413.00 ft (KB)

Start Date: 2017.04.25

End Date:

2017.04.26

Capacity: 8000.00 psig

Last Calib.:

2017.04.26

Start Time: 19:44:15

End Time:

03:52:45

Time On Btm:

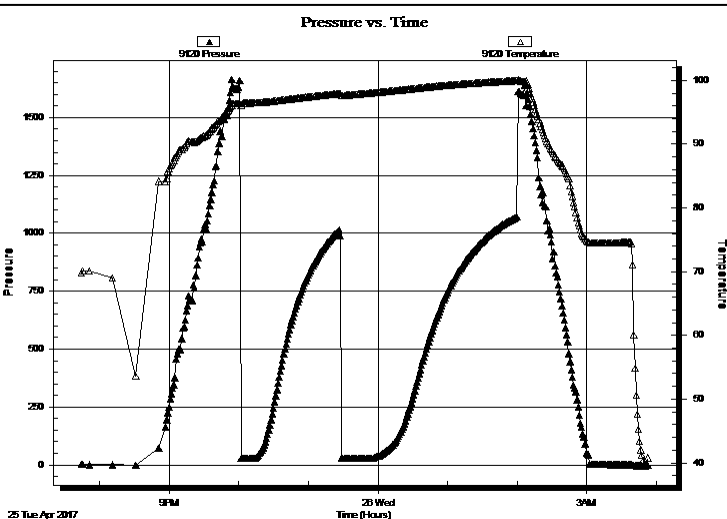
Time Off Btm:

TEST COMMENT: 10-IF-Weak Blow ; Built from a surface to a 1"

75-ISI-No Blow Back

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PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 5% O 95% M	0.11

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

S17-5S-23W Norton,KS

1515 Wynkoop STE 700
Denver CO 80202

Schuckman #1-17

Job Ticket: 63205

DST#: 2

ATTN: Jim C. Musgrove

Test Start: 2017.04.25 @ 19:44:00

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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	OCM 5% O 95% M	0.110

Total Length: 15.00 ft Total Volume: 0.110 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

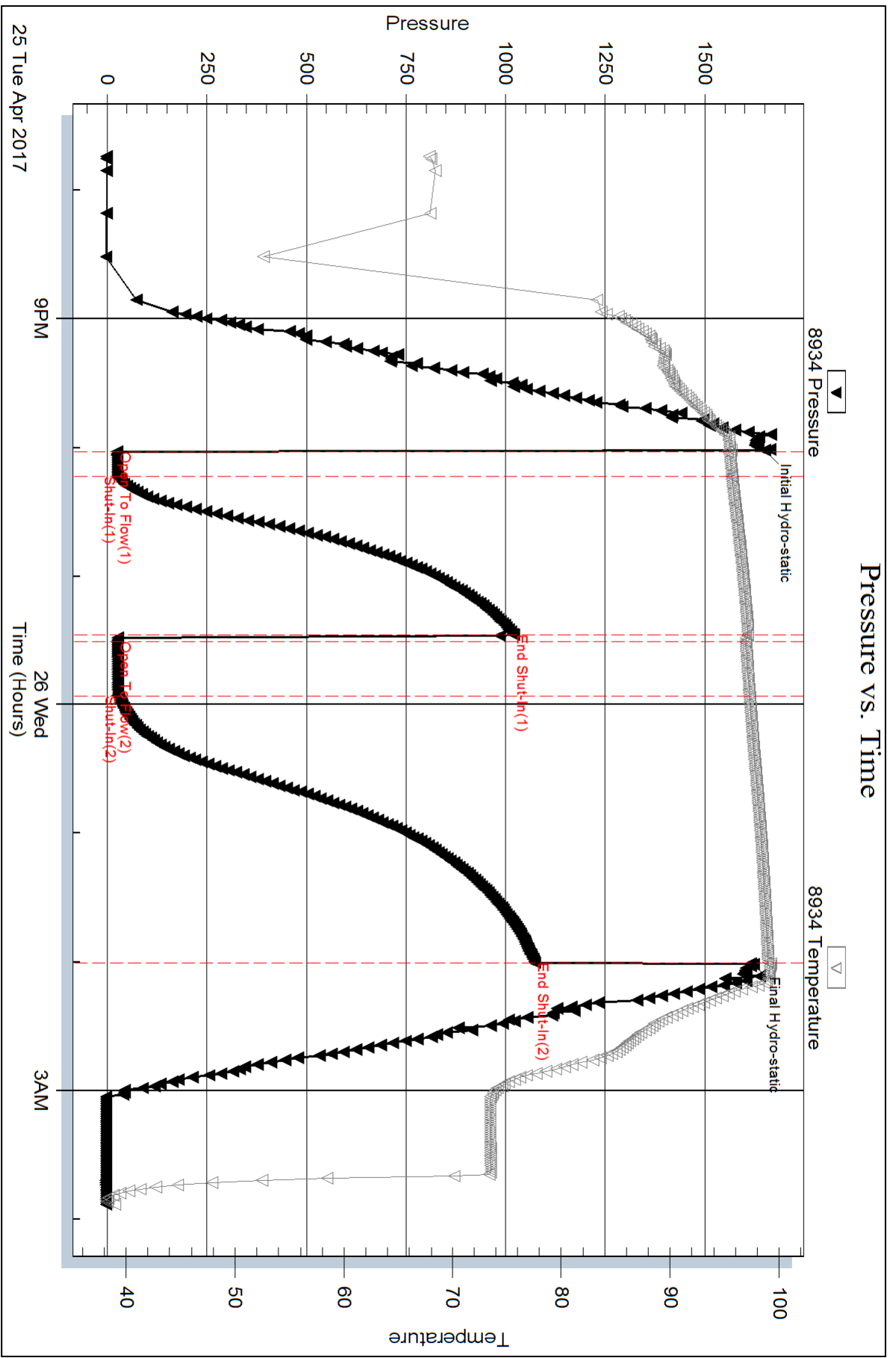
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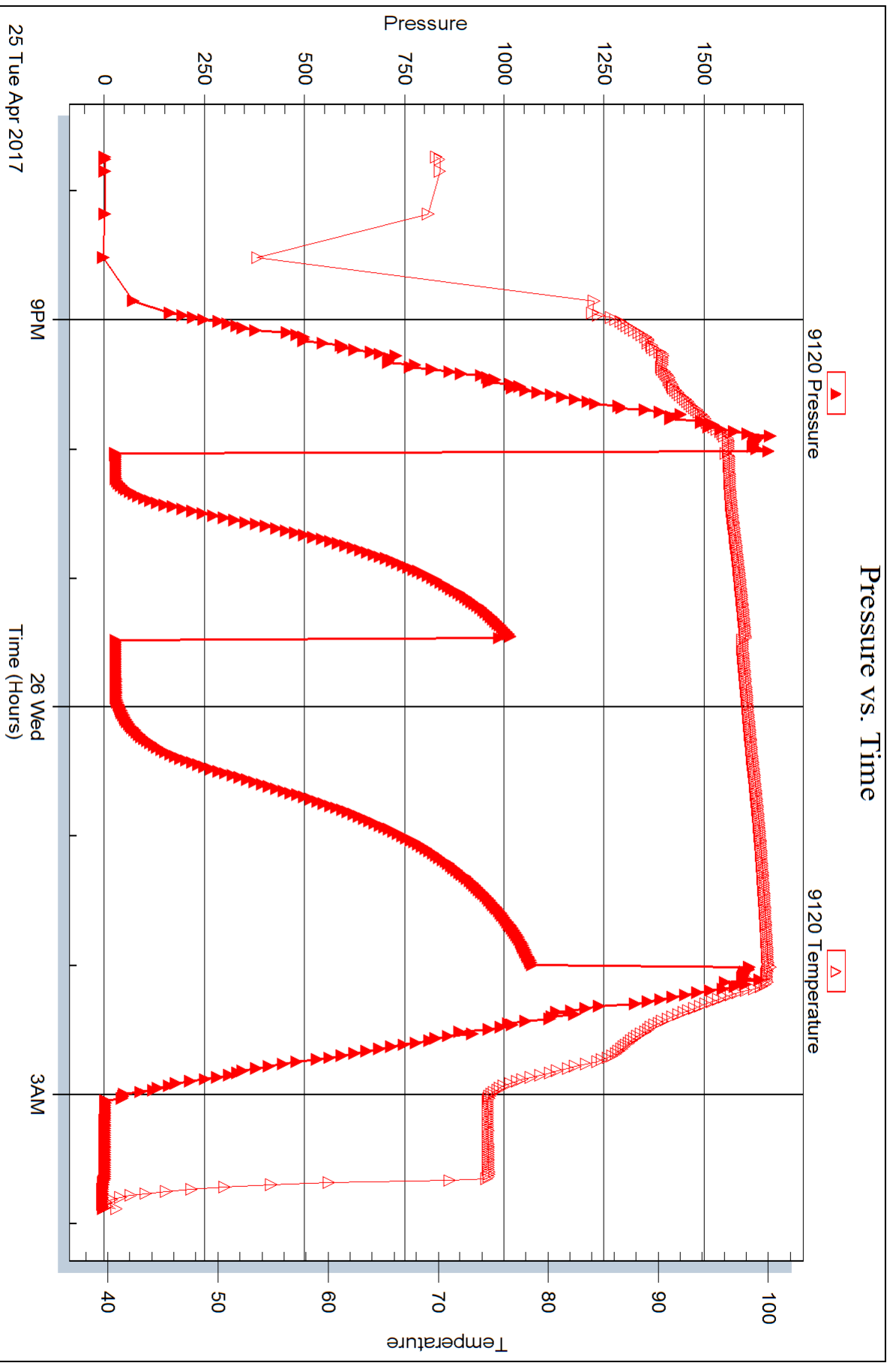
Recovery Comments: 2 and 1/2# LCM

90 ML Oil

660 ML Mud

450 PSI





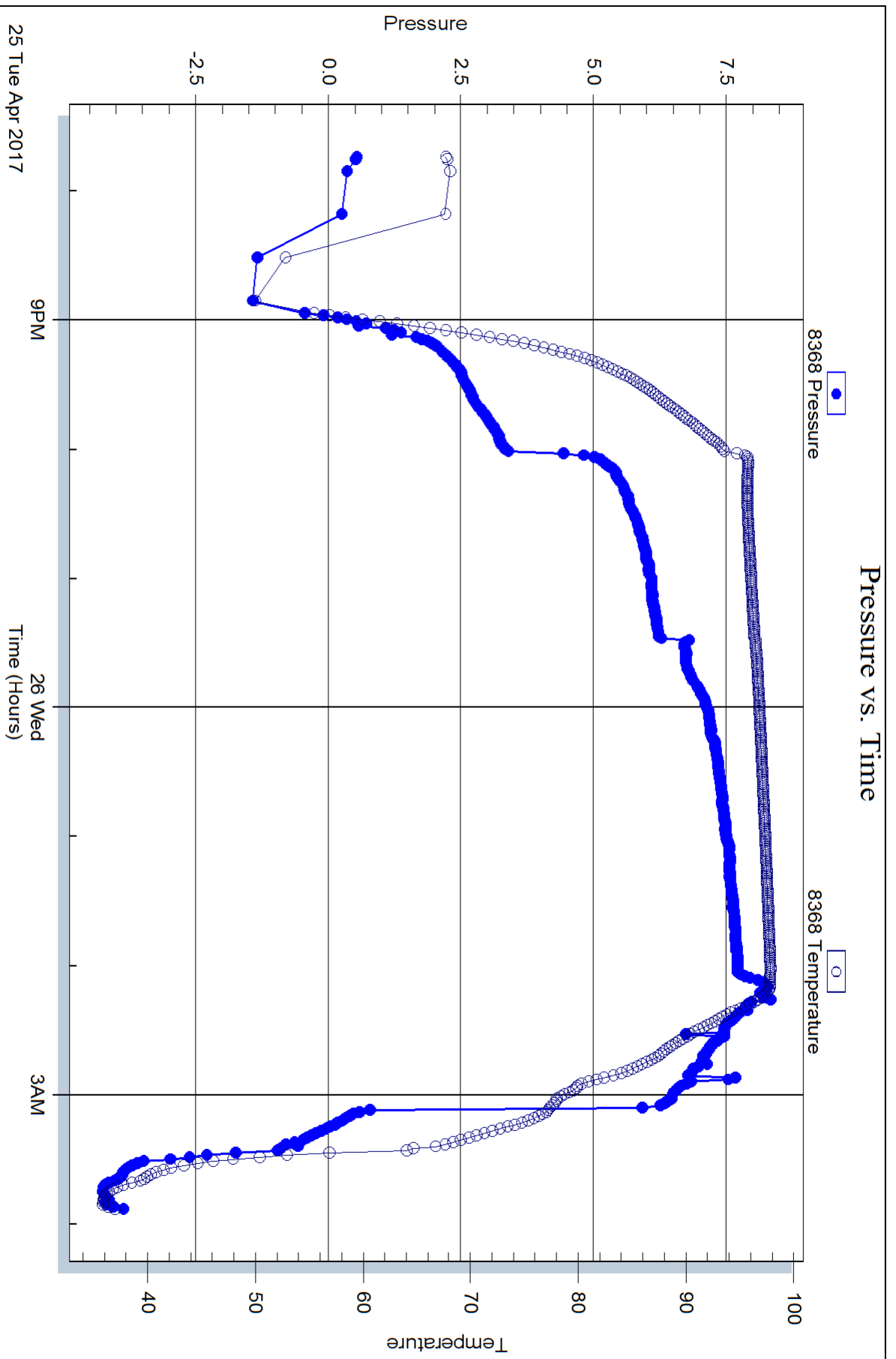
Serial #: 8368

Fluid

Samuel Gary Jr. & Associates, Inc.

Schuckman #1-17

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63205

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