



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65987

DST#: 3

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 04:27:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:02

Time Test Ended: 10:58:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3261.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Inside

Press@RunDepth: 45.52 psig @ 3264.00 ft (KB)

Capacity: psig

Start Date: 2019.08.28

End Date:

2019.08.28

Last Calib.:

2019.08.28

Start Time: 04:27:01

End Time:

10:58:02

Time On Btm:

2019.08.28 @ 06:22:47

Time Off Btm:

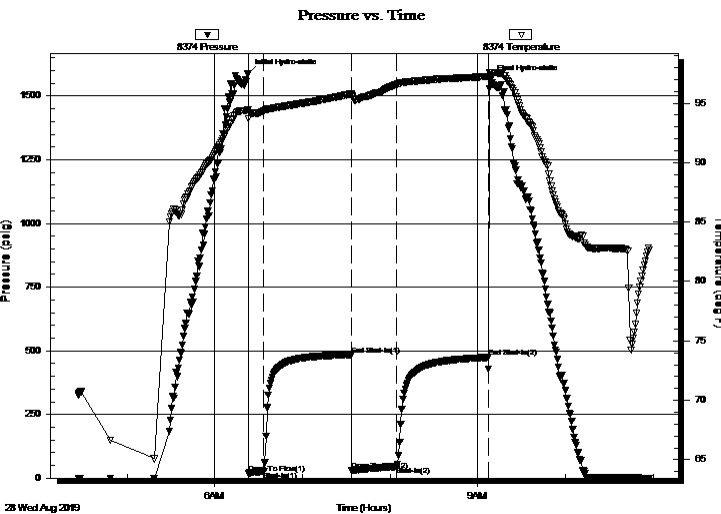
2019.08.28 @ 09:08:17

TEST COMMENT: 10-IF-Weak; Built to 3/4"

60-ISI-No Return

30-FF-Weak; Built to 2 1/4"

60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.03	94.45	Initial Hydro-static
1	17.76	93.72	Open To Flow (1)
11	27.15	94.36	Shut-In(1)
71	483.47	95.77	End Shut-In(1)
71	29.89	95.61	Open To Flow (2)
102	45.52	96.59	Shut-In(2)
165	474.19	97.27	End Shut-In(2)
166	1564.84	97.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
72.00	VSOCM 1%O 99%M	0.53

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65987

DST#: 3

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 04:27:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
72.00	VSOCM 1%O 99%M	0.529

Total Length: 72.00 ft Total Volume: 0.529 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

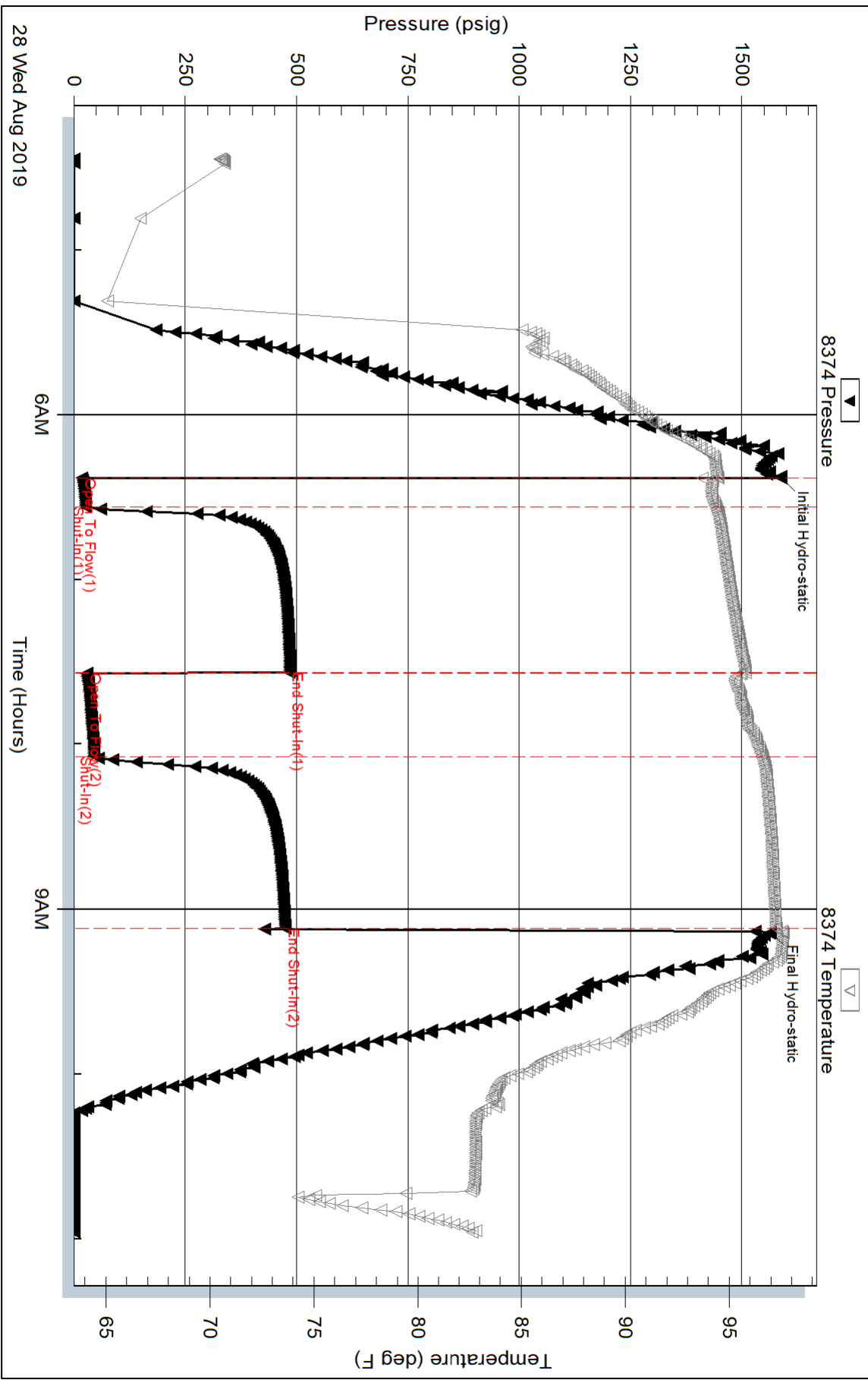
Laboratory Name:

Laboratory Location:

Recovery Comments: 3/4#LCM

Sampler-20mL Oil 200mL Mud @325PSI

Pressure vs. Time



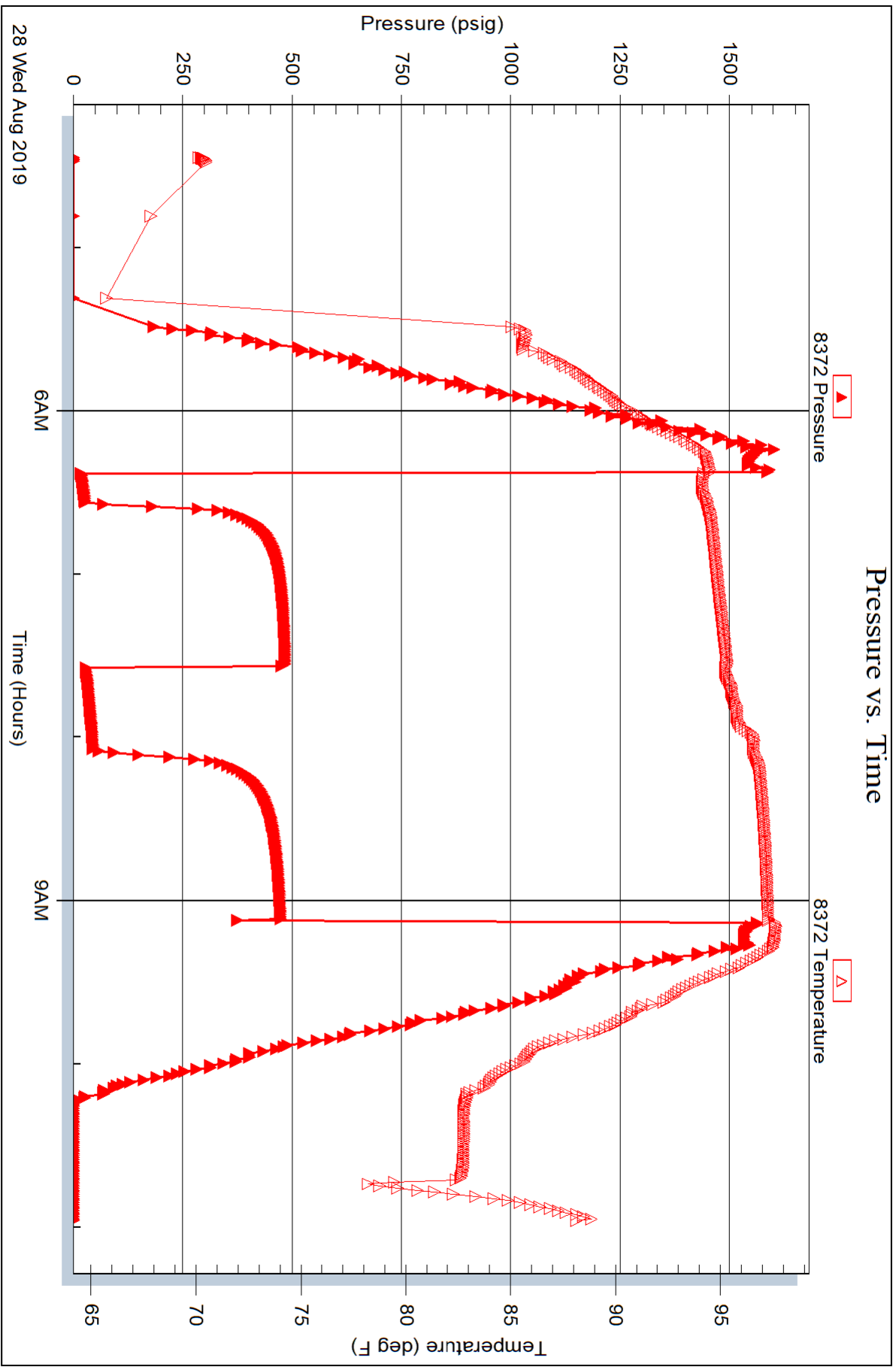
Serial #: 8372

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 3



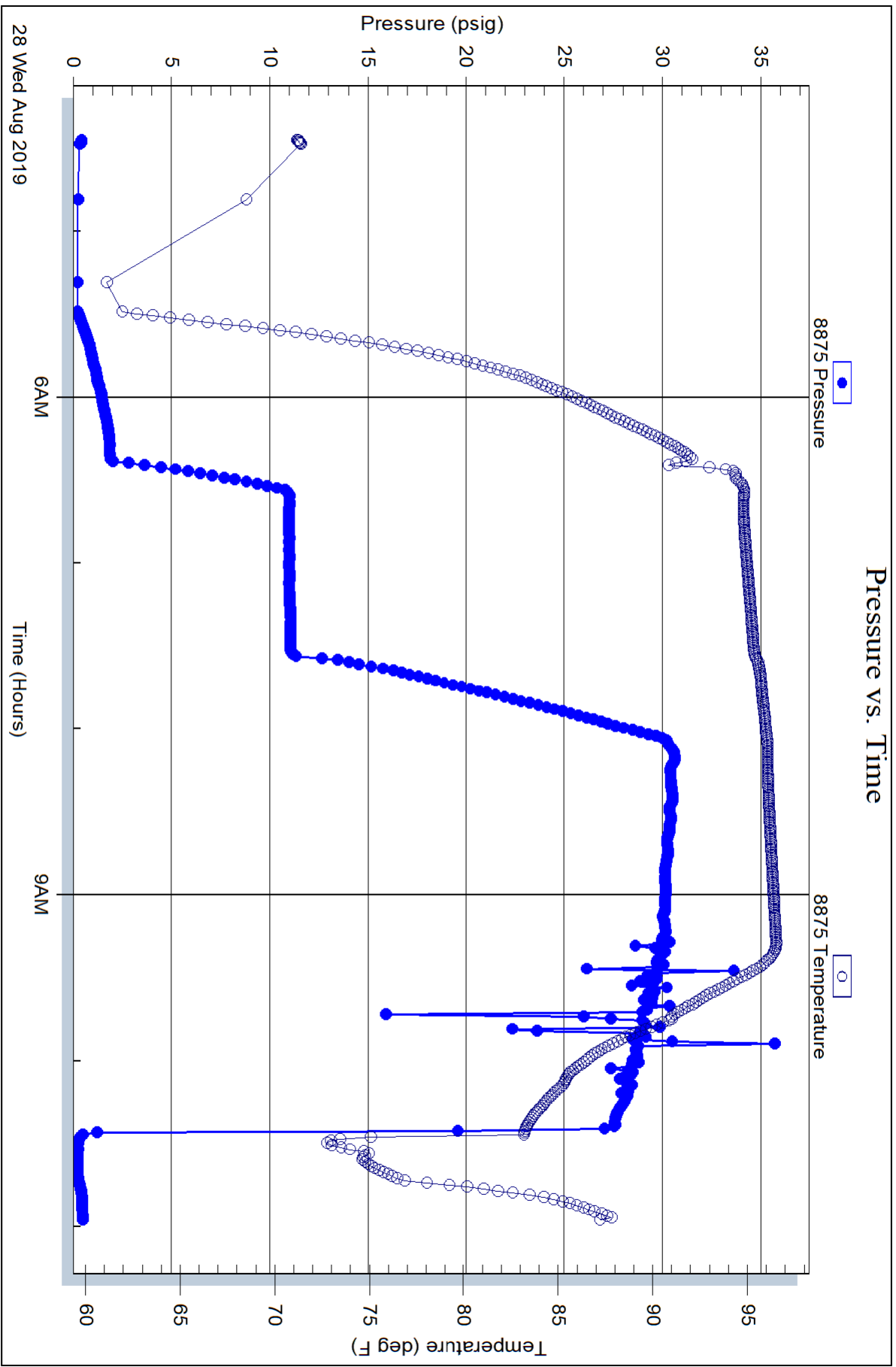
Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65987

Printed: 2019.08.28 @ 11:32:06