



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Clayton Camozzi

Wegele #2-32

32-15-15,Russell,KS

Start Date: 2012.07.06 @ 18:00:00

End Date: 2012.07.07 @ 01:19:30

Job Ticket #: 49266 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.09 @ 09:46:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

32-15-15, Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wegele #2-32

Job Ticket: 49266

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.07.06 @ 18:00:00

GENERAL INFORMATION:

Formation: **KC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:30

Time Test Ended: 01:19:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3140.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1912.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1902.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 30.54 psig @ 3141.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.06

End Date:

2012.07.07

Last Calib.:

2012.07.07

Start Time: 18:00:05

End Time:

01:19:29

Time On Btm:

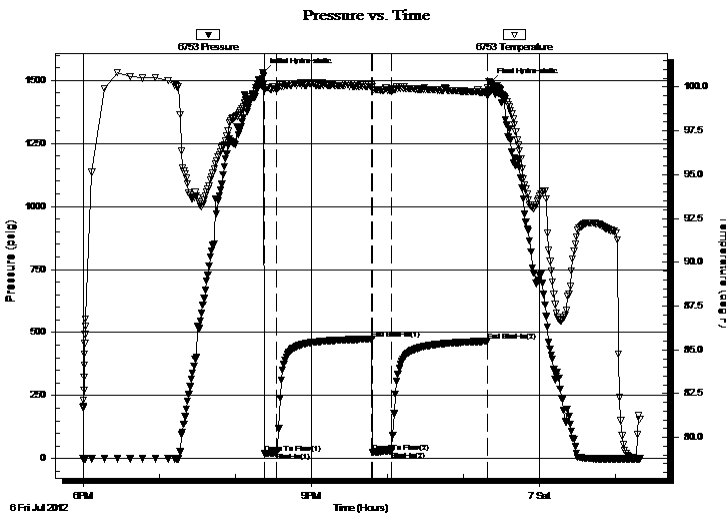
2012.07.06 @ 20:22:00

Time Off Btm:

2012.07.06 @ 23:21:30

TEST COMMENT: 10min IF-3/4in blow
75min ISI-No blow
15min FF-No blow
75min FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.29	100.14	Initial Hydro-static
2	19.41	99.86	Open To Flow (1)
11	24.94	99.92	Shut-In(1)
86	473.59	100.01	End Shut-In(1)
87	25.36	99.86	Open To Flow (2)
101	30.54	99.82	Shut-In(2)
177	465.89	99.70	End Shut-In(2)
180	1491.30	99.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

Gas Rates

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



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Time Test Ended: 01:19:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3140.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1912.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1902.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press @ Run Depth: psig @ 3141.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.06

End Date:

2012.07.07

Last Calib.:

2012.07.07

Start Time: 18:00:05

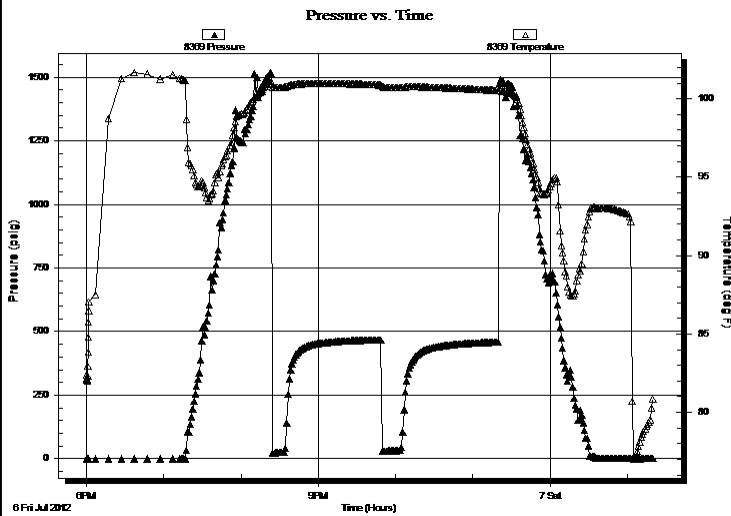
End Time:

01:19:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 10min IF-3/4in blow
75min ISI-No blow
15min FF-No blow
75min FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

Gas Rates

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



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32-15-15, Russell, KS

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Wegele #2-32

Job Ticket: 49266

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.07.06 @ 18:00:00

GENERAL INFORMATION:

Formation: **KC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:30

Time Test Ended: 01:19:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3140.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1912.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1902.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8319 Fluid

Press @ Run Depth: psig @ 3111.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.06

End Date: 2012.07.07

Last Calib.: 2012.07.07

Start Time: 18:00:05

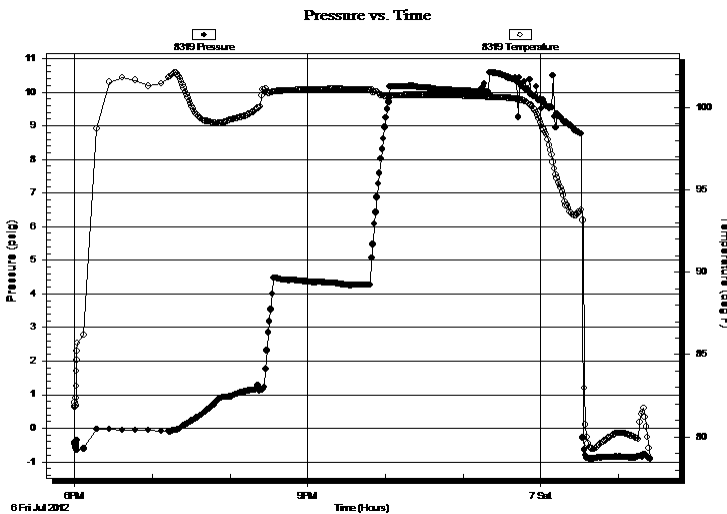
End Time: 01:24:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 10min IF-3/4in blow
75min ISI-No blow
15min FF-No blow
75min FSI-No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

32-15-15,Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wegele #2-32

Job Ticket: 49266

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.07.06 @ 18:00:00

Tool Information

Drill Pipe:	Length: 3126.00 ft	Diameter: 3.80 inches	Volume: 43.85 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	20.00 ft			Final	50000.00 lb
Depth to Top Packer:	3140.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	114.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	5.00			3111.00	
Recorder	0.00	8319	Fluid	3111.00	
Shut In Tool	5.00			3116.00	
Sampler	2.00			3118.00	
Hydraulic tool	5.00			3123.00	
Jars	5.00			3128.00	
Safety Joint	2.00			3130.00	
Packer	5.00			3135.00	34.00 Bottom Of Top Packer
Packer	5.00			3140.00	
Stubb	1.00			3141.00	
Recorder	0.00	6753	Inside	3141.00	
Recorder	0.00	8369	Outside	3141.00	
Perforations	2.00			3143.00	
Change Over Sub	1.00			3144.00	
Drill Pipe	63.00			3207.00	
Change Over Sub	1.00			3208.00	
Perforations	9.00			3217.00	
Bullnose	3.00			3220.00	80.00 Bottom Packers & Anchor

Total Tool Length: 114.00



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FLUID SUMMARY

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Denver CO 80202

Wegele #2-32

Job Ticket: 49266

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.07.06 @ 18:00:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

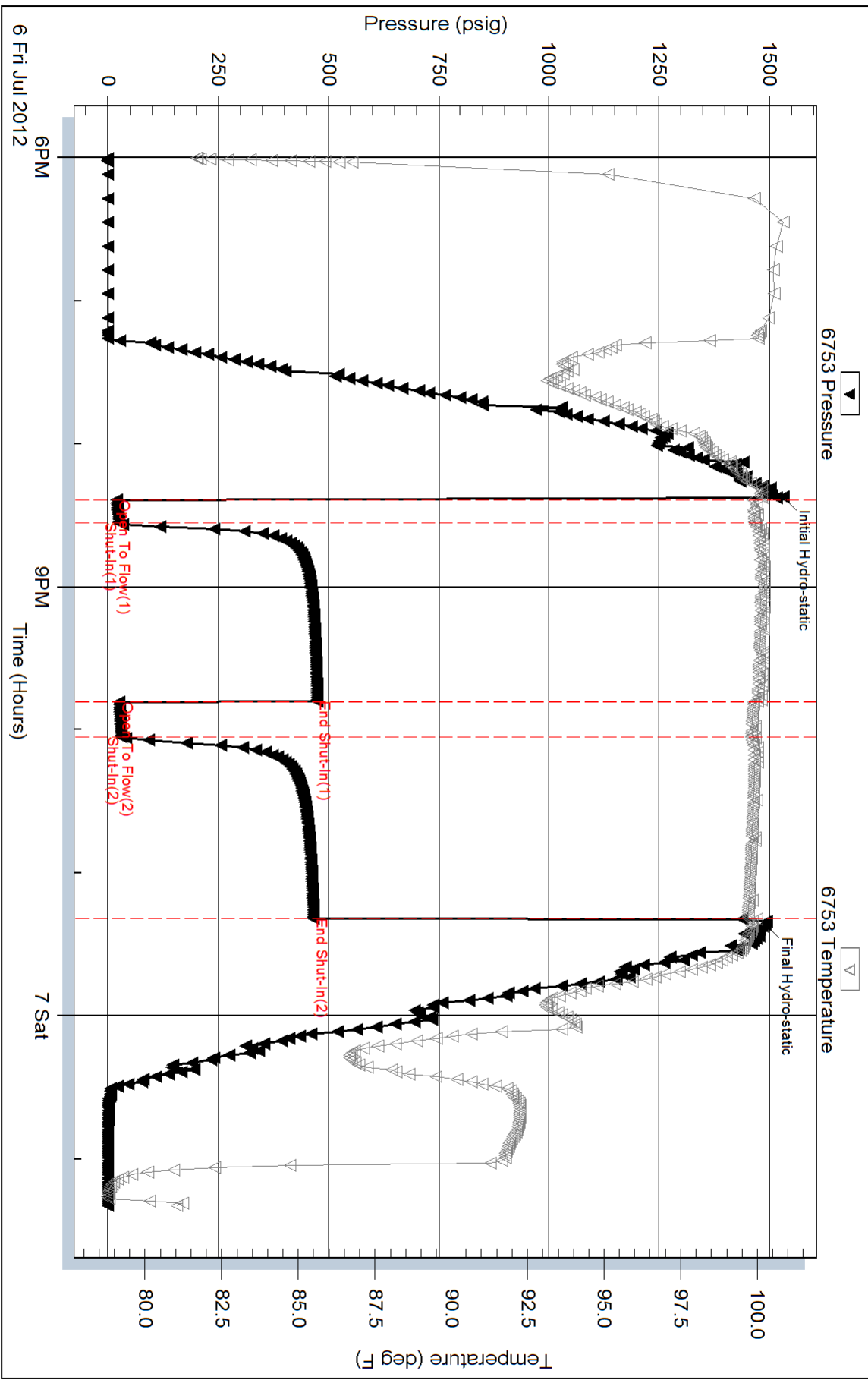
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 3000ml mud 150psi

Pressure vs. Time

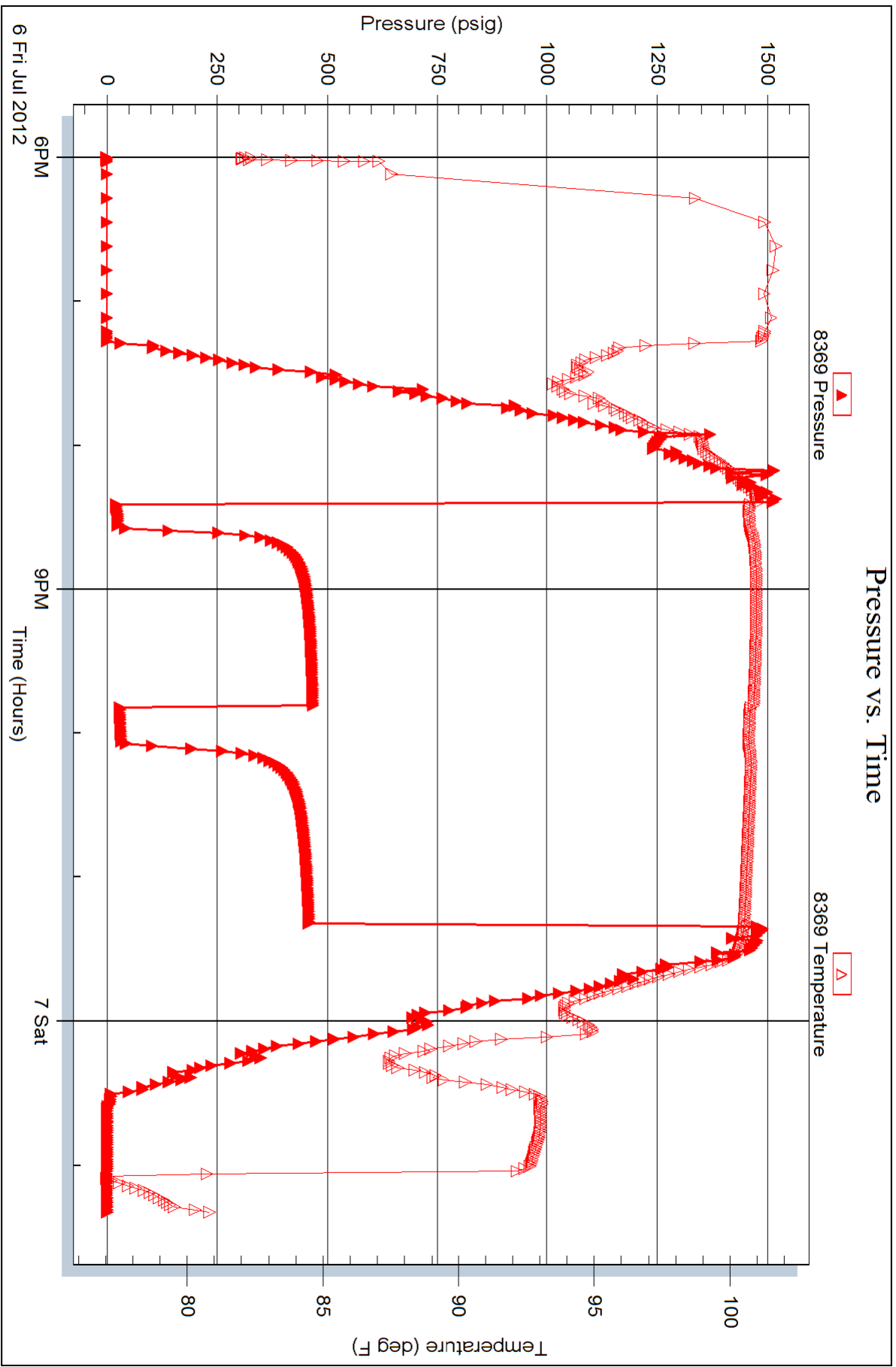


Serial #: 8369

Outside Samuel Gary Jr & Associates

Wegele #2-32

DST Test Number: 1



Serial #: 8319

Fluid

Samuel Gary Jr & Associates

Wegele #2-32

DST Test Number: 1

