

DRILL STEM TEST REPORT

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

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Chris Mitchel

Wahl Trust #1-32

32-14s-15w Russell,KS

Start Date: 2012.09.24 @ 08:59:50

End Date: 2012.09.24 @ 16:54:50

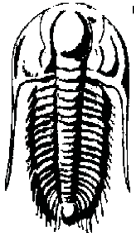
Job Ticket #: 47871 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.01 @ 14:37:18



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TESTING, INC**

DRILL STEM TEST REPORT

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Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47871

DST#: 1

ATTN: Chris Mitchel

Test Start: 2012.09.24 @ 08:59:50

GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:44:05

Time Test Ended: 16:54:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 3000.00 ft (KB) To 3040.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3040.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 120.82 psig @ 3037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24

End Date:

2012.09.24

Last Calib.:

2012.09.24

Start Time: 08:59:52

End Time:

16:54:50

Time On Btm:

2012.09.24 @ 10:43:35

Time Off Btm:

2012.09.24 @ 14:24:35

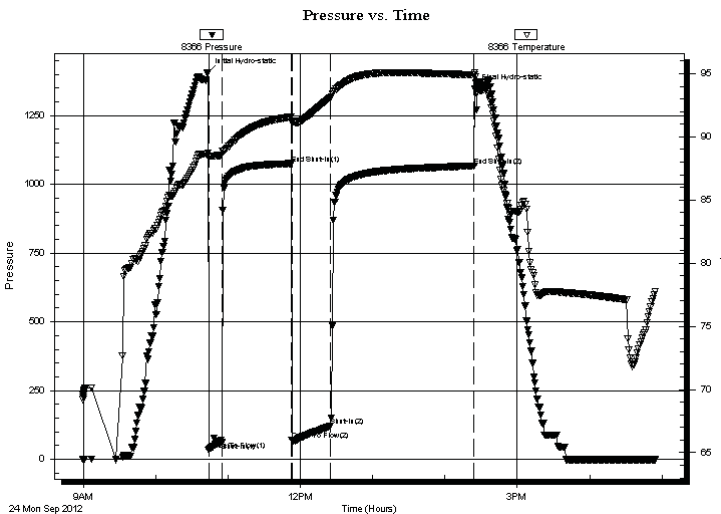
TEST COMMENT: IFP-Fair Blow , Built to 8"

ISI-Dead

FFP-Good Blow , BOB in 17 Min.

FSI-Dead

PRESSURE SUMMARY



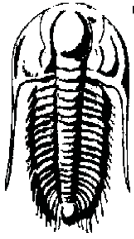
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1406.57	88.70	Initial Hydro-static
1	34.43	88.37	Open To Flow (1)
12	61.37	88.56	Shut-In(1)
69	1075.37	91.57	End Shut-In(1)
70	70.93	91.13	Open To Flow (2)
102	120.82	93.10	Shut-In(2)
221	1067.08	94.91	End Shut-In(2)
221	1346.91	95.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water W/Oil Scum	1.41
90.00	Frothy OCWM-30%O-10%W-60%M	1.26
0.00	210' Gas In Pipe	0.00

Gas Rates

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



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Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1885.00 ft (KB)

1877.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8289

Fluid

Press@RunDepth: _____ psig @ 2965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24

End Date:

2012.09.24

Last Calib.:

2012.09.24

Start Time: 08:59:50

End Time:

16:55:03

Time On Btm:

Time Off Btm:

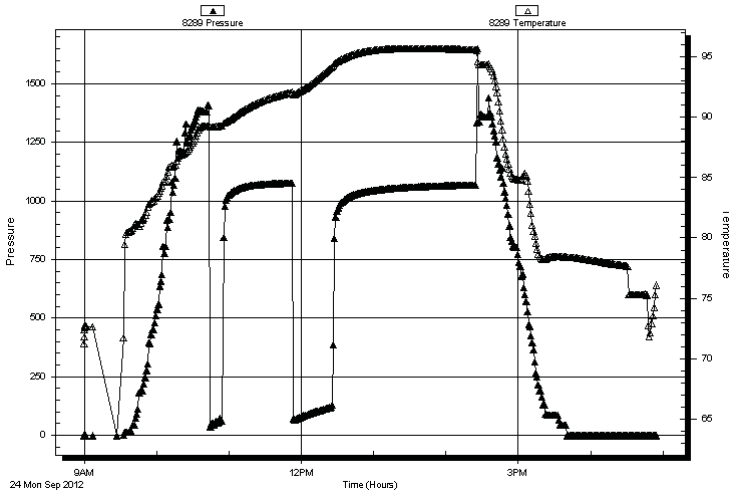
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Pressure vs. Time



PRESSURE SUMMARY

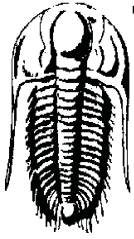
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
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0.00	210' Gas In Pipe	0.00

Gas Rates

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



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1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789 Outside

Press@RunDepth: psig @ 3037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24 End Date: 2012.09.24

Last Calib.: 2012.09.24

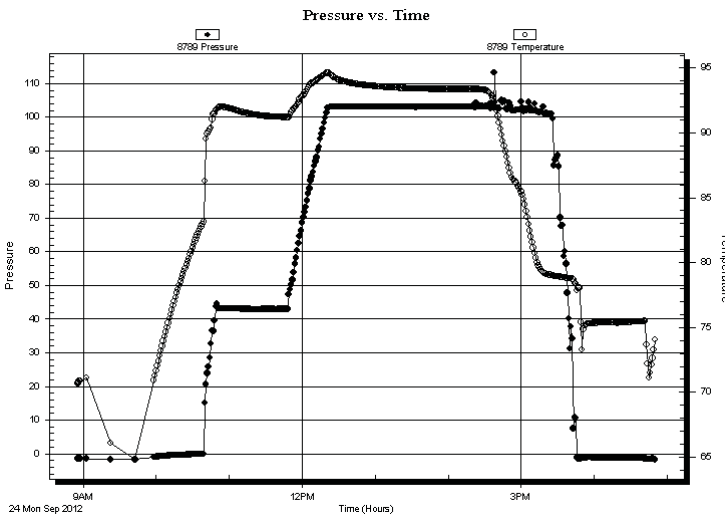
Start Time: 08:55:45 End Time: 16:50:28

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Fair Blow , Built to 8"
ISI-Dead
FFP-Good Blow , BOB in 17 Min.
FSI-Dead

PRESSURE SUMMARY



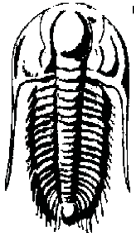
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water W/Oil Scum	1.41
90.00	Frothy OCWM-30%O-10%W-60%M	1.26
0.00	210' Gas In Pipe	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

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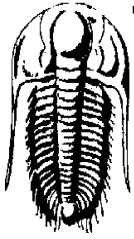
Tool Information

Drill Pipe:	Length: 2939.00 ft	Diameter: 3.80 inches	Volume: 41.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 41.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3000.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8289	Fluid	2965.00	
Change Over Sub	5.00			2970.00	
Shut In Tool	5.00			2975.00	
Sampler	3.00			2978.00	
Hydraulic tool	5.00			2983.00	
Jars	5.00			2988.00	
Safety Joint	2.00			2990.00	
Packer	5.00			2995.00	35.00 Bottom Of Top Packer
Packer	5.00			3000.00	
Stubb	1.00			3001.00	
Perforations	3.00			3004.00	
Change Over Sub	1.00			3005.00	
Blank Spacing	31.00			3036.00	
Change Over Sub	1.00			3037.00	
Recorder	0.00	8366	Inside	3037.00	
Recorder	0.00	8789	Outside	3037.00	
Bullnose	3.00			3040.00	40.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



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FLUID SUMMARY

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Job Ticket: 47871

DST#: 1

ATTN: Chris Mitchel

Test Start: 2012.09.24 @ 08:59:50

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:

38000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Muddy Water W/Oil Scum	1.410
90.00	Frothy OCWM-30%O-10%W-60%M	1.262
0.00	210' Gas In Pipe	0.000

Total Length: 210.00 ft Total Volume: 2.672 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-125#,4000ml Salt Water

Serial #: 8366

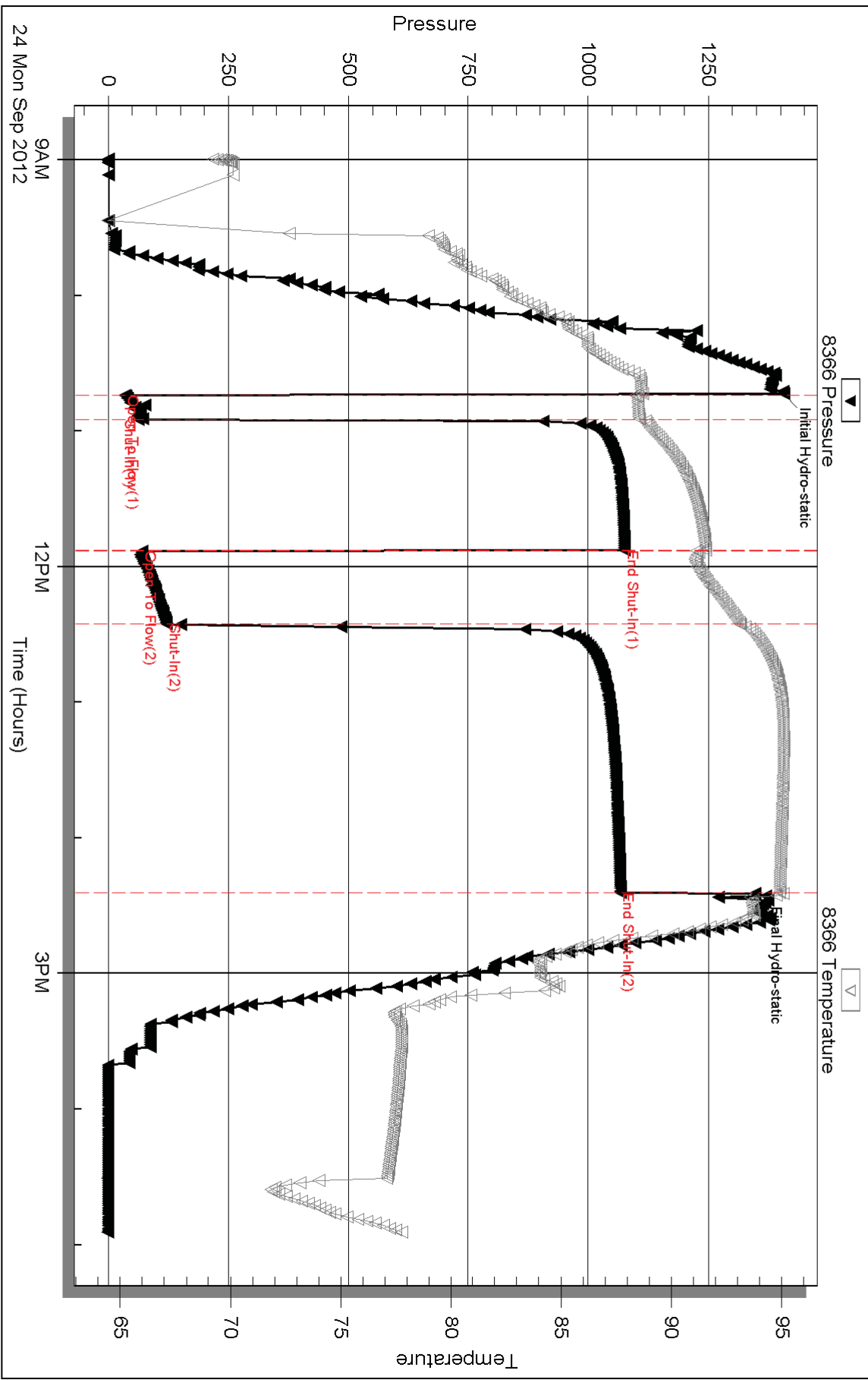
Inside

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 1

Pressure vs. Time



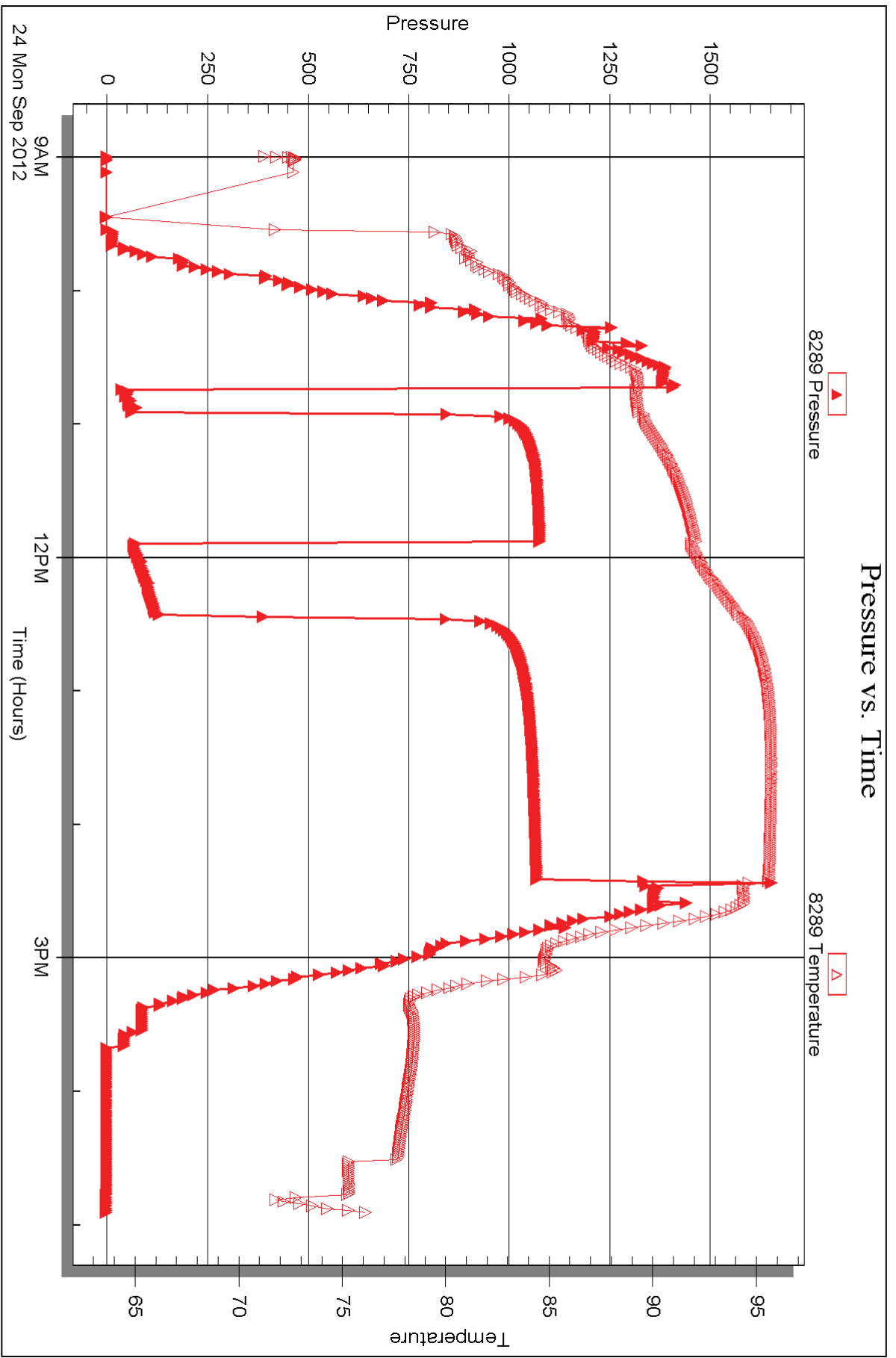
Serial #: 8289

Fluid

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 1



Serial #: 8789

Outside Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 1

