



DRILL STEM TEST REPORT

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

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Tom Fertal

Pfannenstiel #1-24

24 14s 18w Ellis,KS

Start Date: 2012.02.22 @ 22:05:00

End Date: 2012.02.23 @ 05:10:00

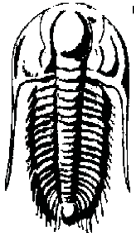
Job Ticket #: 46874 DST #: 2

Trilobite Testing, Inc

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Printed: 2012.02.28 @ 15:40:26



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DRILL STEM TEST REPORT

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24 14s 18w Ellis,KS

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Job Ticket: 46874

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Test Start: 2012.02.22 @ 22:05:00

GENERAL INFORMATION:

Formation: **Lansing KC "D-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:18:30

Time Test Ended: 05:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett/Jim

Unit No: 59

Interval: 3282.00 ft (KB) To 3350.00 ft (KB) (TVD)

Reference Elevations: 1959.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753

Inside

Press@RunDepth: 31.32 psig @ 3289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.22

End Date:

2012.02.23

Last Calib.:

2012.02.23

Start Time: 22:05:05

End Time:

05:09:59

Time On Btm:

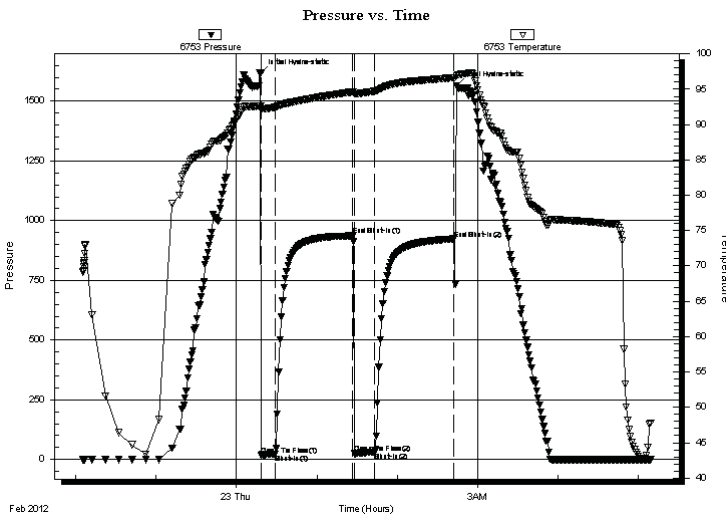
2012.02.23 @ 00:18:00

Time Off Btm:

2012.02.23 @ 02:44:30

TEST COMMENT: 10min-IF- 1" Blow
60min-ISI-No Blow
15min-FF-No Blow
60min-FSI-No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1615.99	92.65	Initial Hydro-static
1	18.21	92.11	Open To Flow (1)
11	23.02	92.46	Shut-In(1)
69	937.67	94.63	End Shut-In(1)
70	24.81	94.39	Open To Flow (2)
85	31.32	94.70	Shut-In(2)
145	923.58	96.64	End Shut-In(2)
147	1565.15	96.94	Final Hydro-static

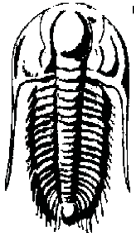
Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m	0.02

* Recovery from multiple tests

Gas Rates

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



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TOOL DIAGRAM

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DST#: 2

ATTN: Tom Fertal

Test Start: 2012.02.22 @ 22:05:00

Tool Information

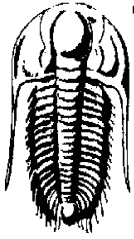
Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3282.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	102.00 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	8369	Fluid	3248.00	
Change Over Sub	5.00			3253.00	
Change Over Sub	1.00			3254.00	
Shut In Tool	5.00			3259.00	
Sampler	2.00			3261.00	
Hydraulic tool	5.00			3266.00	
Jars	5.00			3271.00	
Safety Joint	2.00			3273.00	
Packer	5.00			3278.00	34.00 Bottom Of Top Packer
Packer	4.00			3282.00	
Stubb	1.00			3283.00	
Perforations	5.00			3288.00	
Change Over Sub	1.00			3289.00	
Recorder	0.00	6753	Inside	3289.00	
Recorder	0.00	8319	Outside	3289.00	
Blank Spacing	31.00			3320.00	
Change Over Sub	1.00			3321.00	
Perforations	26.00			3347.00	
Bullnose	3.00			3350.00	68.00 Bottom Packers & Anchor

Total Tool Length: 102.00



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FLUID SUMMARY

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Job Ticket: 46874

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.02.22 @ 22:05:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

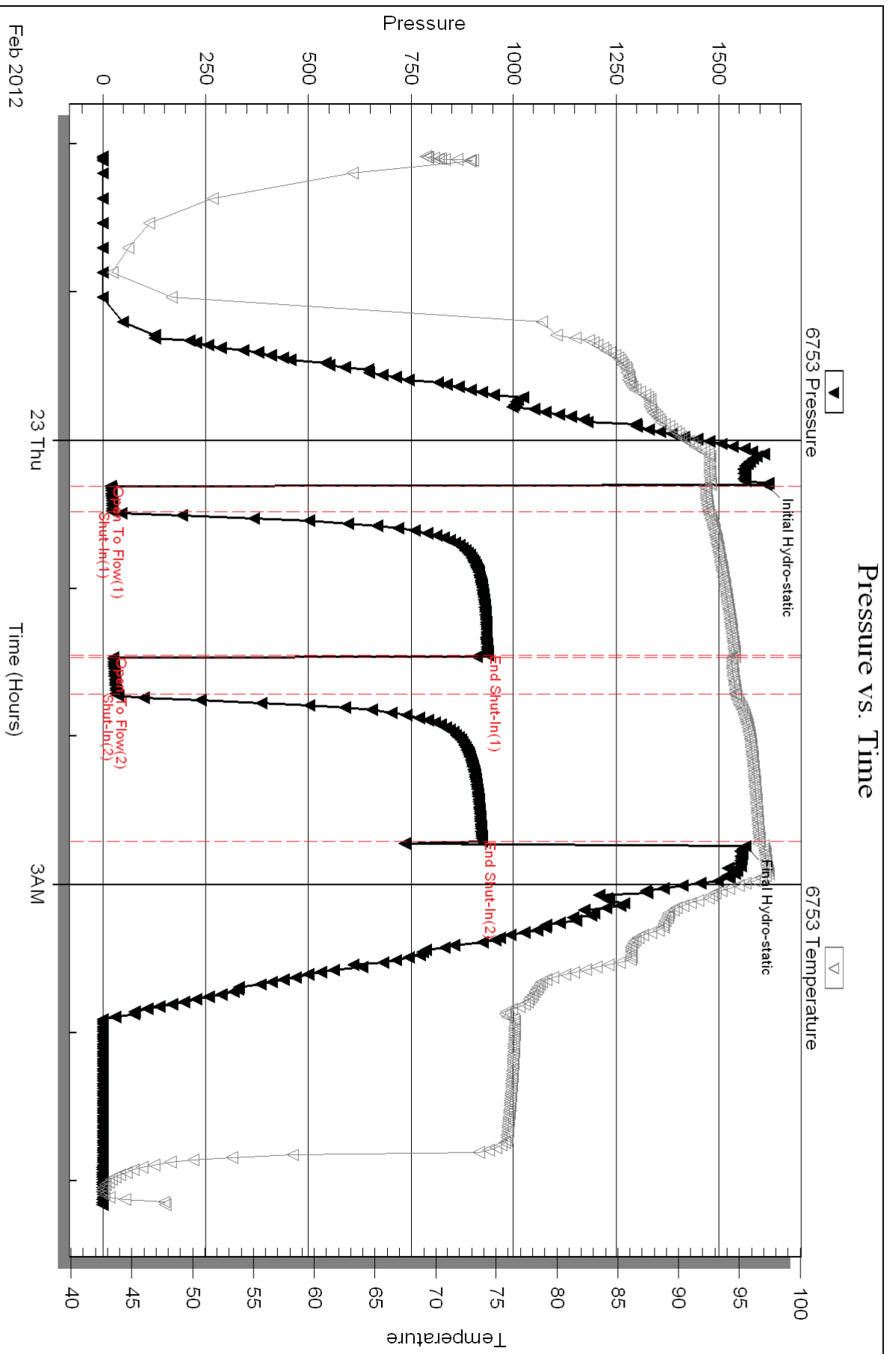
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 3000mL mud 195psi



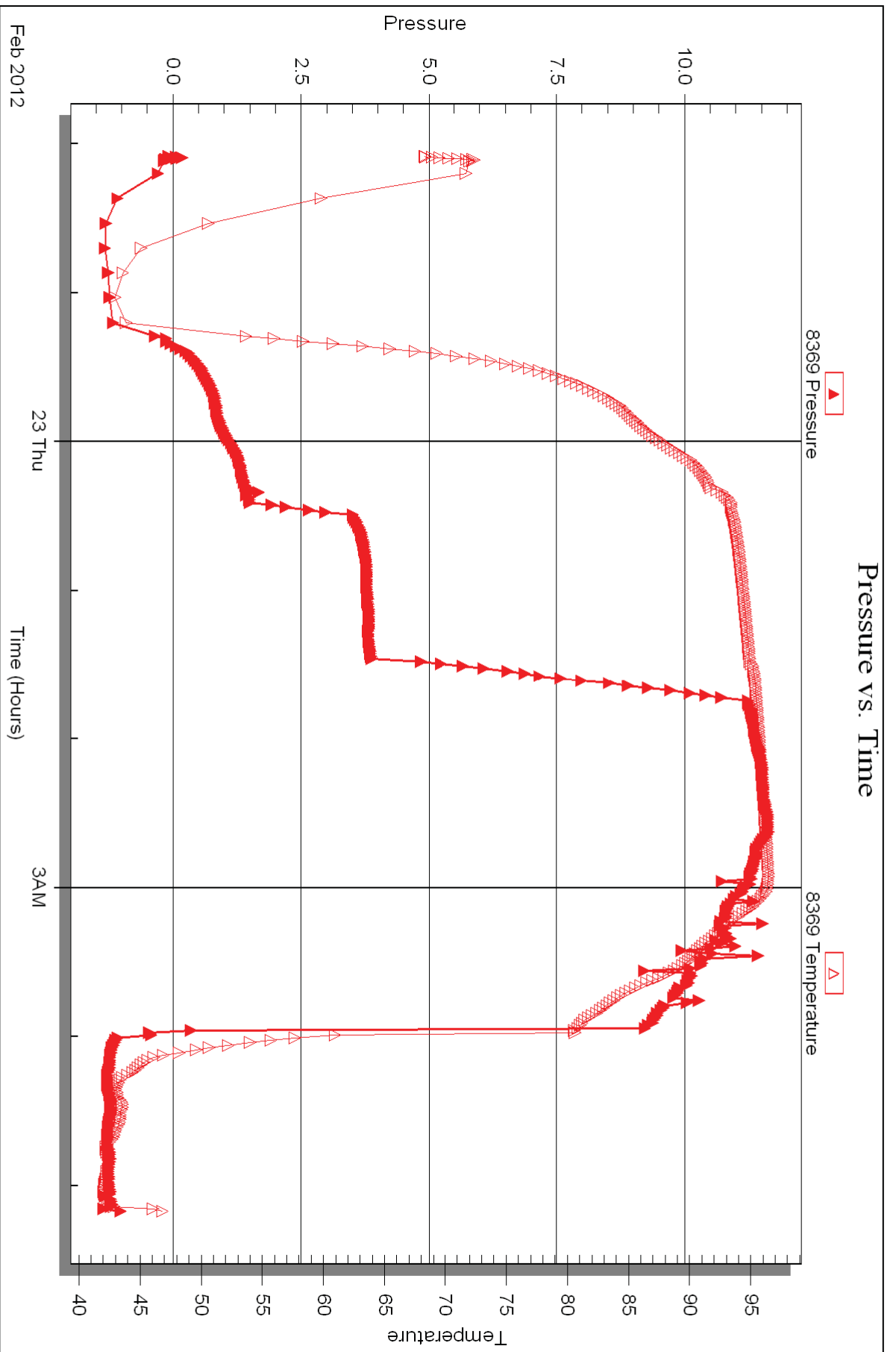
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Fluid

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Pfannenstiel #1-24

DST Test Number: 2



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Ref. No: 46874

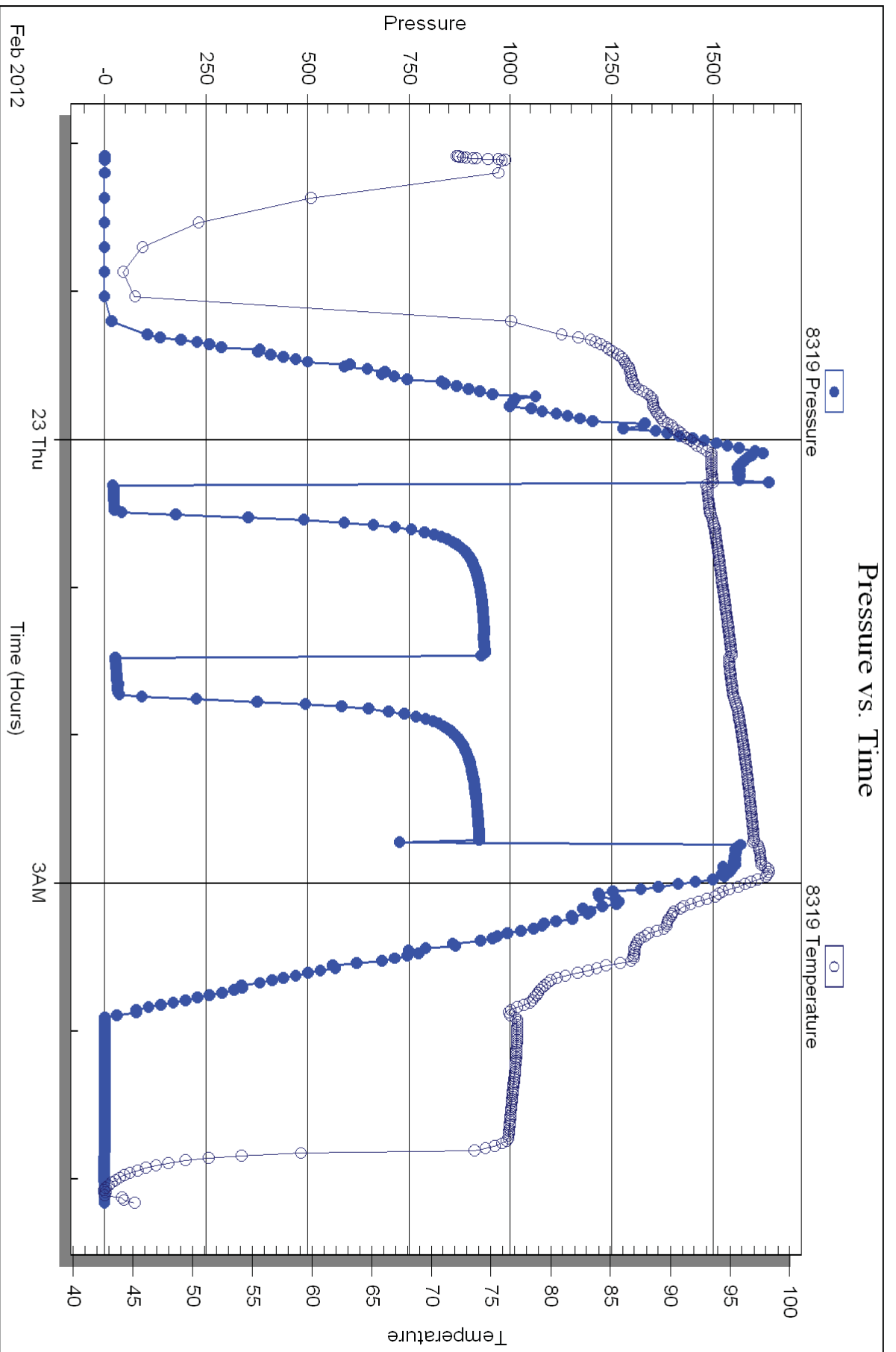
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Serial #: 8319

Outside Samuel Gary Jr & Associates Inc

Pfannenstiel #1-24

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