



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 @ 01:30:48

End Date: 2012.02.22 @ 10:15:18

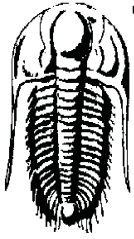
Job Ticket #: 46873 DST #: 1

Trilobite Testing, Inc

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Printed: 2012.02.28 @ 15:41:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

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Pfannenstiel #1-24

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DST#: 1

Test Start: 2012.02.22 @ 01:30:48

GENERAL INFORMATION:

Formation: **Lansing KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:48

Time Test Ended: 10:15:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett/Jim

Unit No: 59

Interval: 3250.00 ft (KB) To 3276.00 ft (KB) (TVD)

Reference Elevations: 1959.00 ft (KB)

Total Depth: 3276.00 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: 146.00 psig @ 3251.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.22 End Date: 2012.02.22

Last Calib.: 2012.02.22

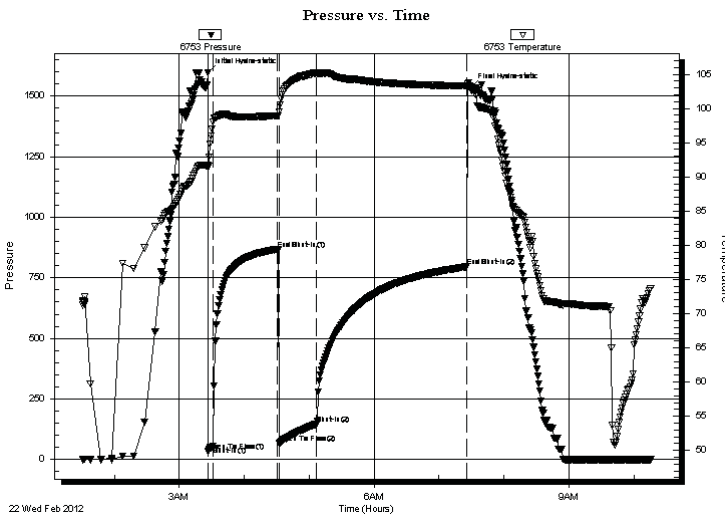
Start Time: 01:30:53 End Time: 10:15:18

Time On Btm: 2012.02.22 @ 03:26:18

Time Off Btm: 2012.02.22 @ 07:28:48

TEST COMMENT: 5min IF-BOB in 4 min
60min ISI-1/2" blow
35min FF-BOB in 4 1/2 min
45min FSI-BOB in 24 min Died Back to 3"

PRESSURE SUMMARY



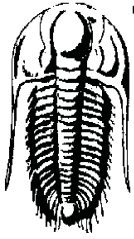
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.28	91.65	Initial Hydro-static
1	35.86	91.48	Open To Flow (1)
5	55.10	98.04	Shut-In(1)
65	868.32	98.96	End Shut-In(1)
66	66.86	99.50	Open To Flow (2)
101	146.00	105.19	Shut-In(2)
240	795.99	103.28	End Shut-In(2)
243	1536.59	103.09	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
175.00	Water	2.17
60.00	gsocm 10%g 5%o 30%m 55%w	0.84
45.00	gmocw 10%g 40%o 10%m 40%w	0.63
0.00	465 GIP	0.00

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



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TOOL DIAGRAM

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Denver CO 80202

Pfannenstiel #1-24

Job Ticket: 46873

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.22 @ 01:30:48

Tool Information

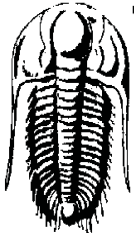
Drill Pipe:	Length: 3218.00 ft	Diameter: 3.80 inches	Volume: 45.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3250.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	60.00 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	3216.00	
Change Over Sub	5.00			3221.00	
Change Over Sub	1.00			3222.00	
Shut In Tool	5.00			3227.00	
Sampler	2.00			3229.00	
Hydraulic tool	5.00			3234.00	
Jars	5.00			3239.00	
Safety Joint	2.00			3241.00	
Packer	5.00			3246.00	34.00 Bottom Of Top Packer
Packer	4.00			3250.00	
Stubb	1.00			3251.00	
Recorder	0.00	6753	Inside	3251.00	
Recorder	0.00	8319	Outside	3251.00	
Perforations	22.00			3273.00	
Bullnose	3.00			3276.00	26.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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FLUID SUMMARY

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Pfannenstiel #1-24

Job Ticket: 46873

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.22 @ 01:30:48

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:

85000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
175.00	Water	2.172
60.00	gsocm 10%g 5%o 30%m 55%w	0.842
45.00	gmocw 10%g 40%o 10%m 40%w	0.631
0.00	465 GIP	0.000

Total Length: 280.00 ft Total Volume: 3.645 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @ 60

Sampler Data 900mL G 500mL O 1600mL W 375 PSI

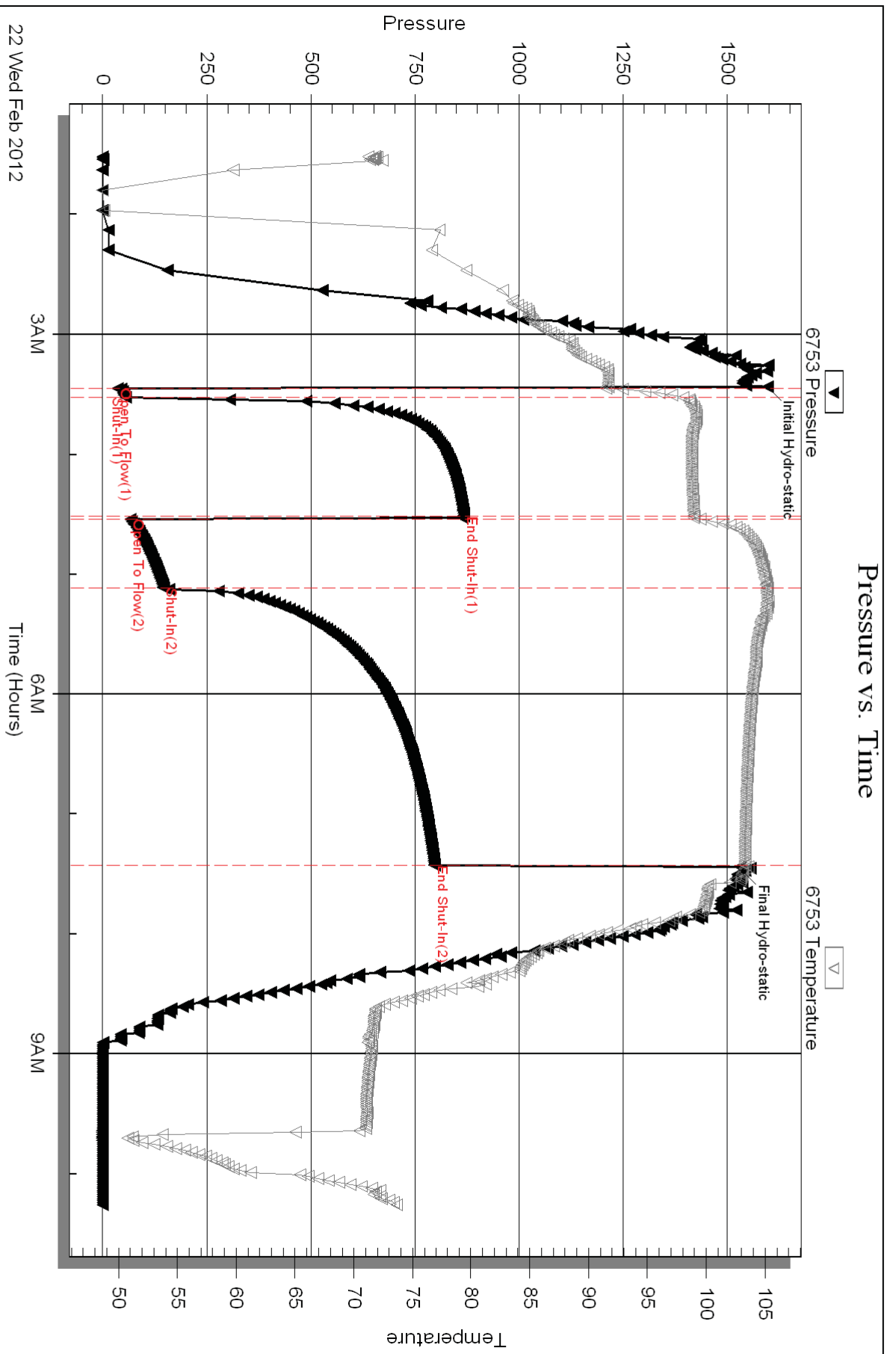
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Inside

Samuel Gary Jr & Associates Inc

Pfannenstiel #1-24

DST Test Number: 1



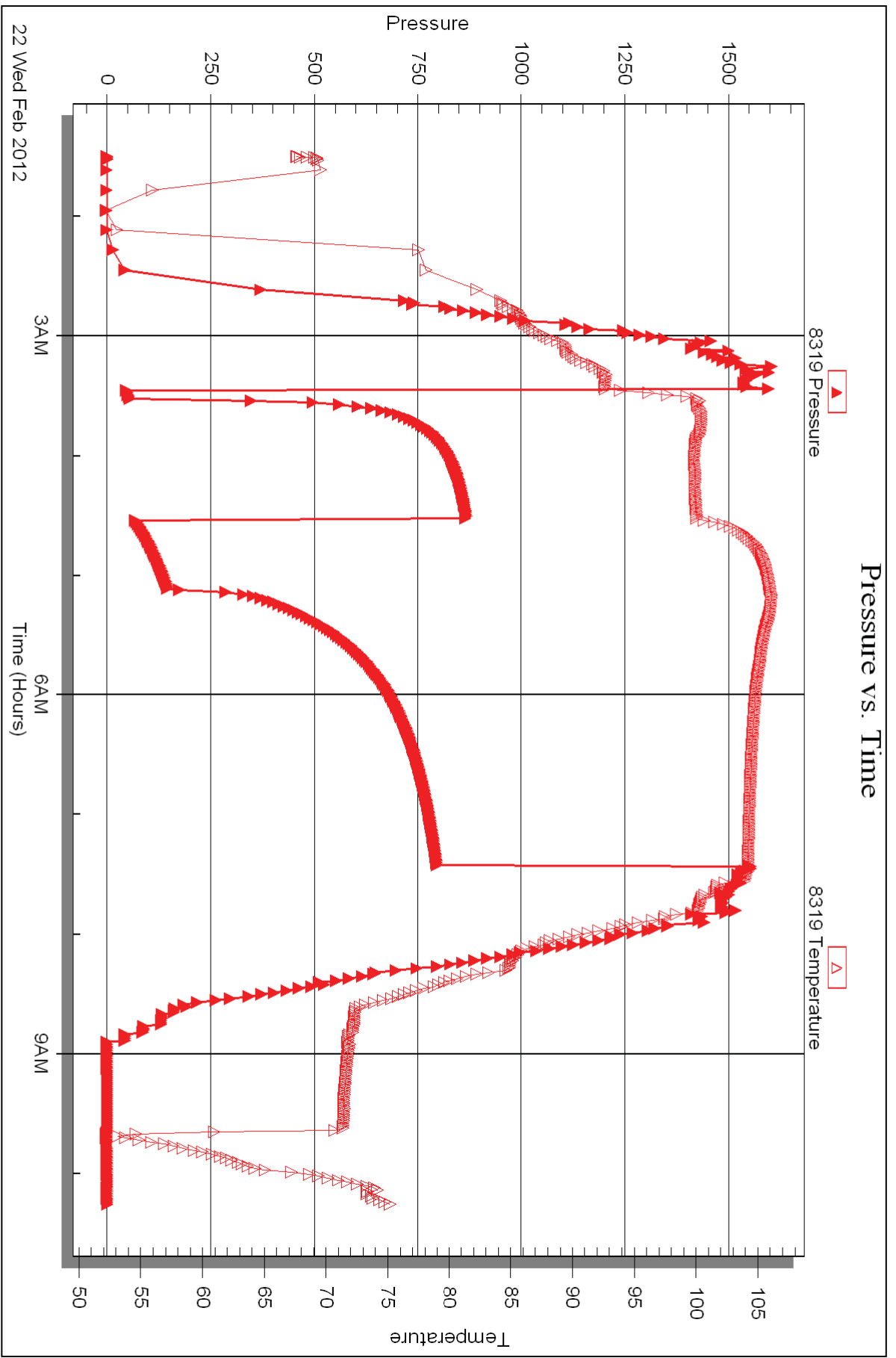
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Outside

Samuel Gary Jr & Associates Inc

Pfannenstiel #1-24

DST Test Number: 1



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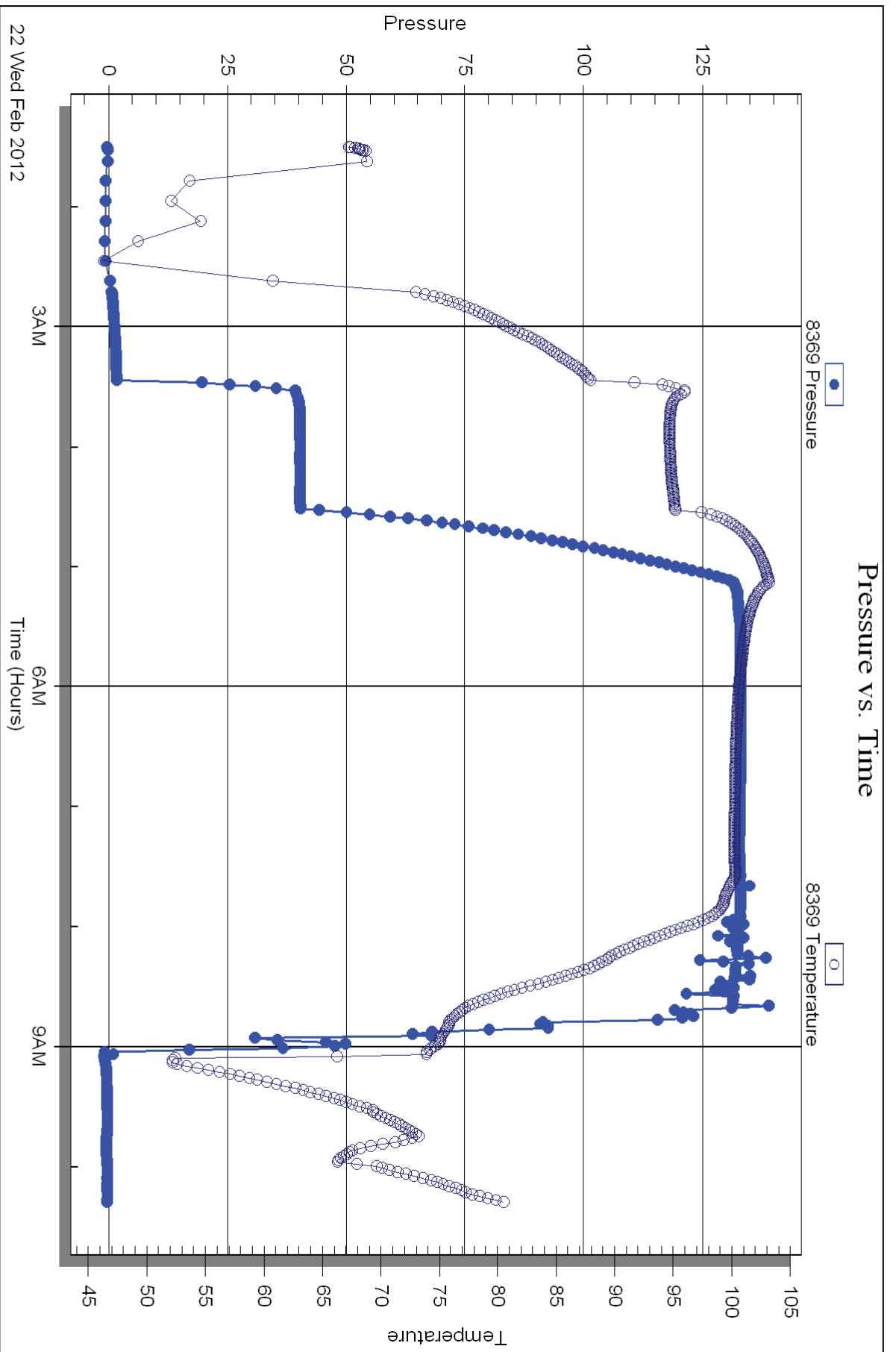
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Fluid

Samuel Gary Jr & Associates Inc

Pfannenstiel #1-24

DST Test Number: 1



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