



DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & Assoc. inc**

1515 Wynkoop
STE 700
Denver Co 80202

ATTN: Clayton Camozzi

36-15s-36w Ellis

Boxberger #5-36

Start Date: 2011.06.27 @ 18:18:05

End Date: 2011.06.28 @ 00:08:59

Job Ticket #: 042650 DST #: 3

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



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TESTING, INC.**

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Test Start: 2011.06.27 @ 18:18:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:50

Time Test Ended: 00:08:59

Test Type: Conventional Straddle

Tester: Andy Carreira

Unit No: 39

Interval: 3393.00 ft (KB) To 3403.00 ft (KB) (TVD)

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3598.00 ft (KB) (TVD)

1920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 19.72 psig @ 3394.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.27 End Date: 2011.06.28

Last Calib.: 2011.06.28

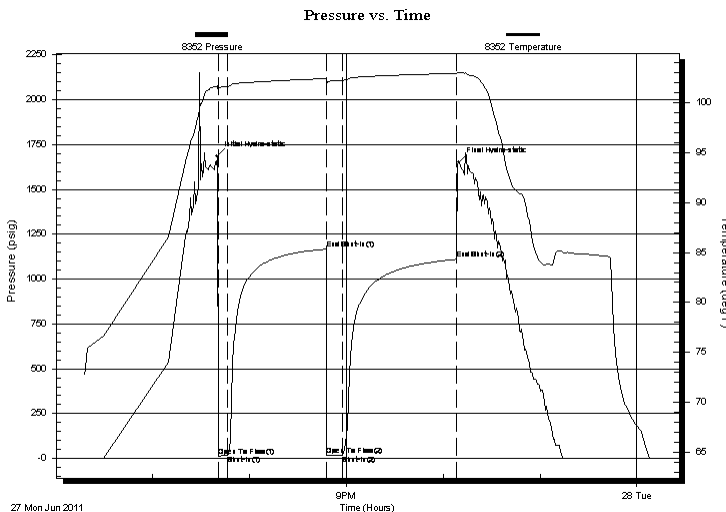
Start Time: 18:18:05 End Time: 00:08:59

Time On Btm: 2011.06.27 @ 19:40:00

Time Off Btm: 2011.06.27 @ 22:09:50

TEST COMMENT: IF:(5min) Surge, No Blow
IS:(60min) No Return
FF:(10min) No Blow
FS:(70min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.08	101.66	Initial Hydro-static
1	14.74	101.12	Open To Flow (1)
7	18.15	101.62	Shut-In(1)
68	1166.62	102.40	End Shut-In(1)
68	18.16	101.71	Open To Flow (2)
78	19.72	102.22	Shut-In(2)
149	1110.35	102.92	End Shut-In(2)
150	1653.26	103.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM	0.02

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3344.00 ft	Diameter: 3.80 inches	Volume: 46.91 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 47.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3393.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3403.00 ft			
Interval between Packers:	10.00 ft			
Tool Length:	244.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8650	Fluid	3358.00	
Change Over Sub	1.00			3359.00	
Blank Spacing	5.00			3364.00	
Shut In Tool	5.00			3369.00	
Sampler	2.00			3371.00	
Hydraulic tool	5.00			3376.00	
Jars	5.00			3381.00	
Safety Joint	3.00			3384.00	
Packer	5.00			3389.00	35.00 Bottom Of Top Packer
Packer	4.00			3393.00	
Stubb	1.00			3394.00	
Recorder	0.00	8017	Inside	3394.00	
Recorder	0.00	8352	Outside	3394.00	
Perforations	5.00			3399.00	
Blank Off Sub	1.00			3400.00	
Blank Spacing	3.00			3403.00	10.00 Tool Interval
Packer	5.00			3408.00	
Perforations	1.00			3409.00	
Recorder	0.00	8647	Below	3409.00	
Change Over Sub	1.00			3410.00	
Drill Pipe	188.00			3598.00	
Change Over Sub	1.00			3599.00	
Bullnose	3.00			3602.00	199.00 Bottom Packers & Anchor
Total Tool Length:	244.00				



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FLUID SUMMARY

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DST#: 3

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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: 9.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

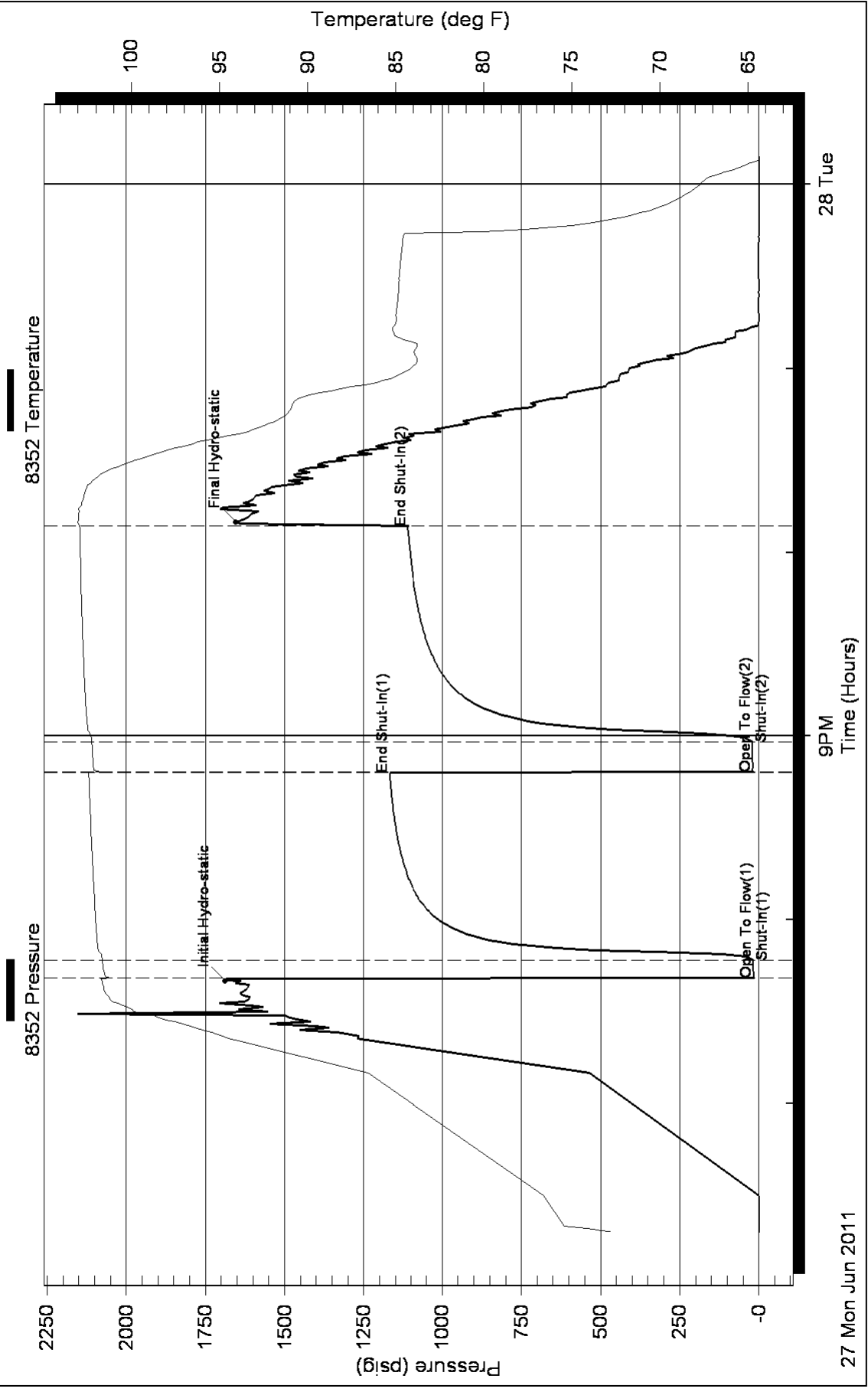
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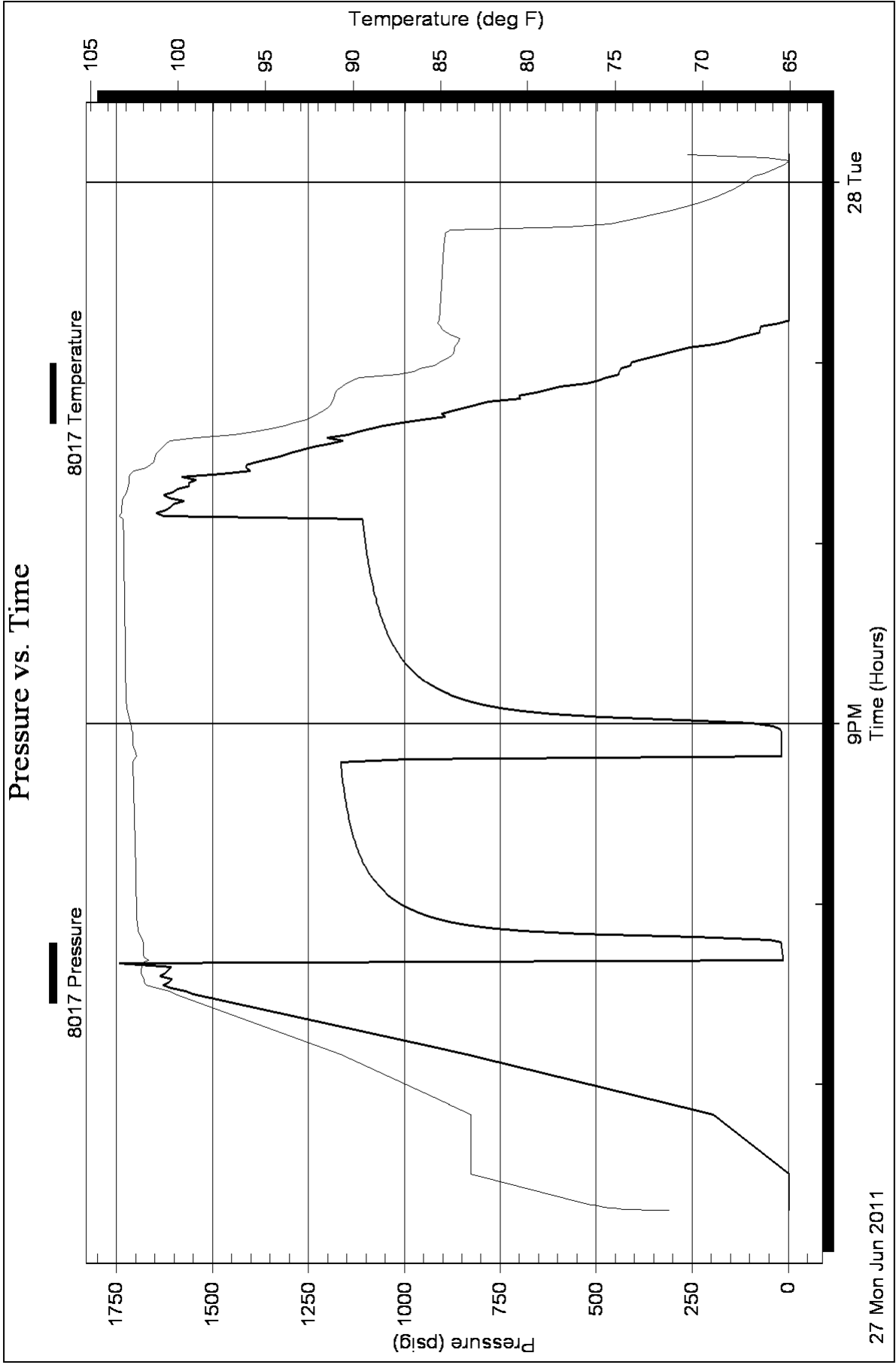
Laboratory Name:

Laboratory Location:

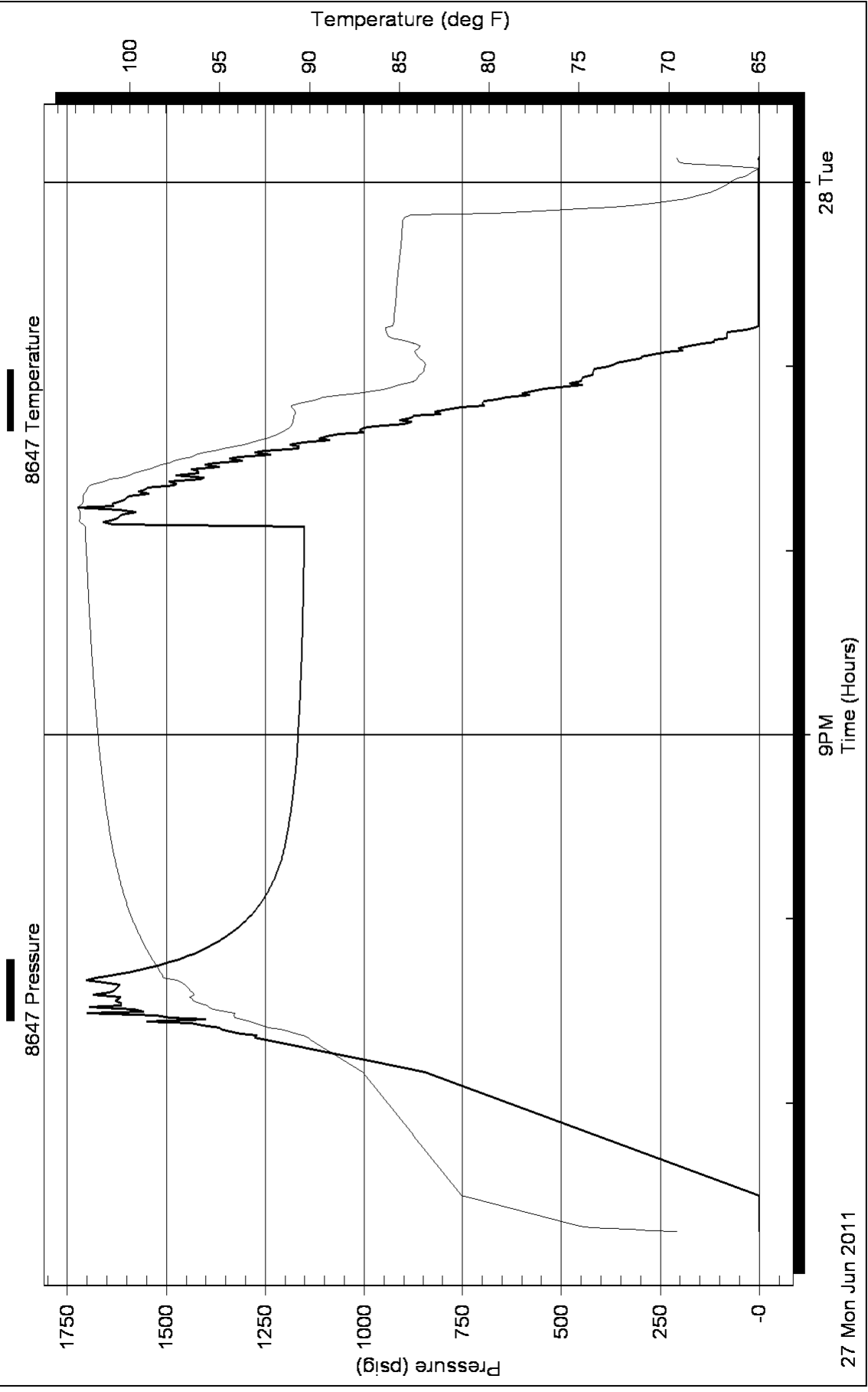
Recovery Comments: Sampler Data- o=tr m=400ml Pressure=105ibs

Pressure vs. Time





Pressure vs. Time



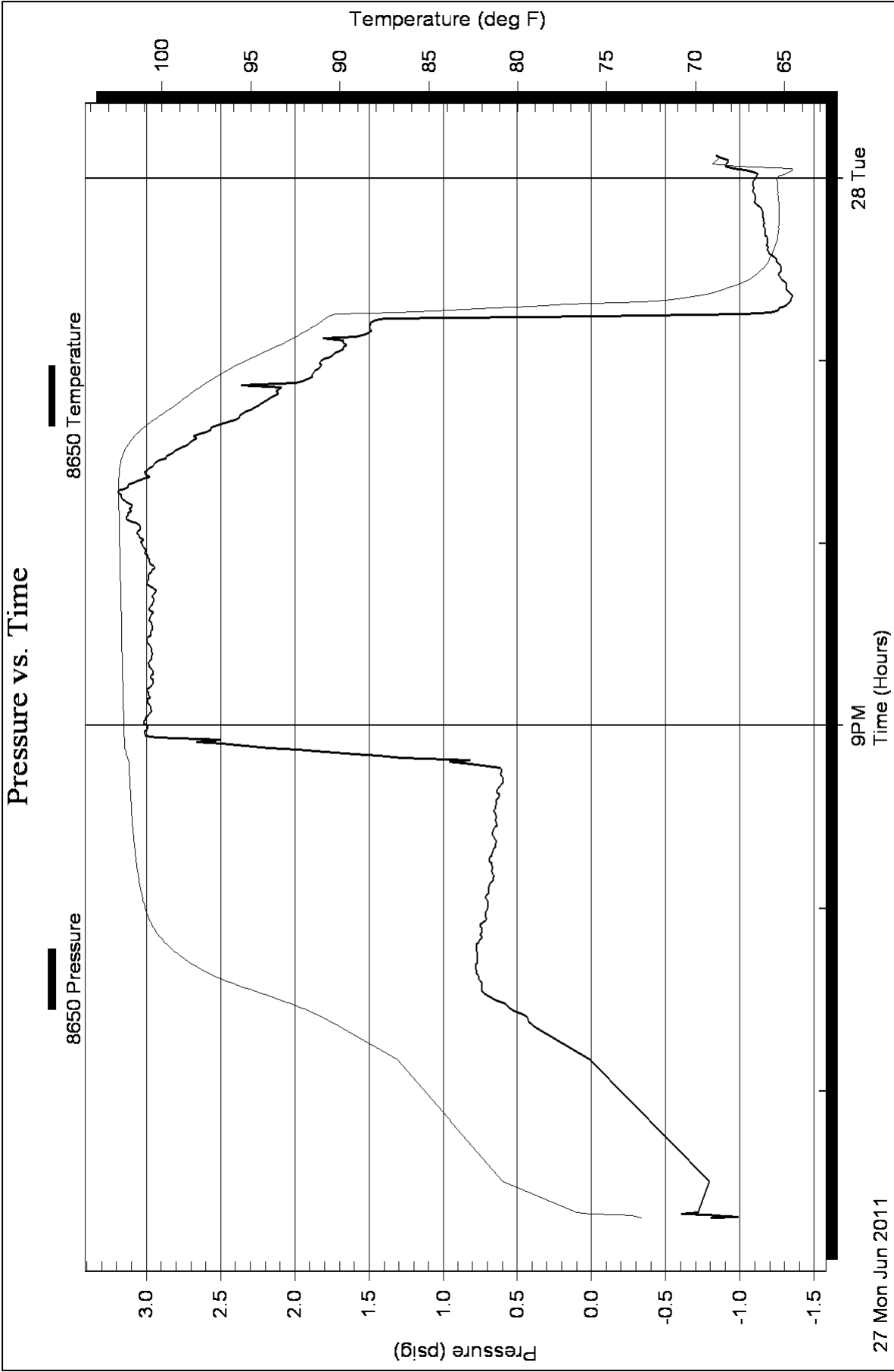
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Fluid

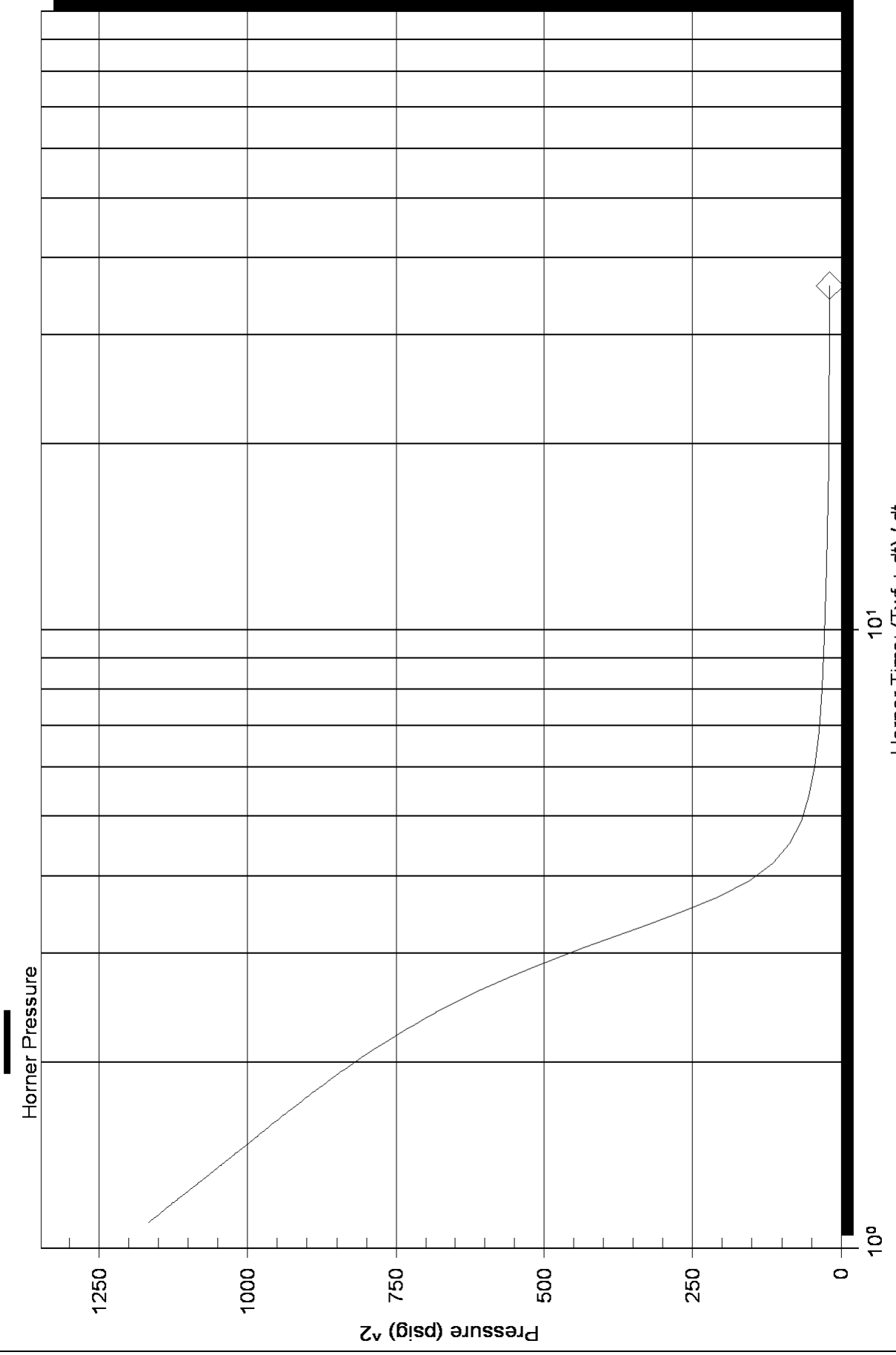
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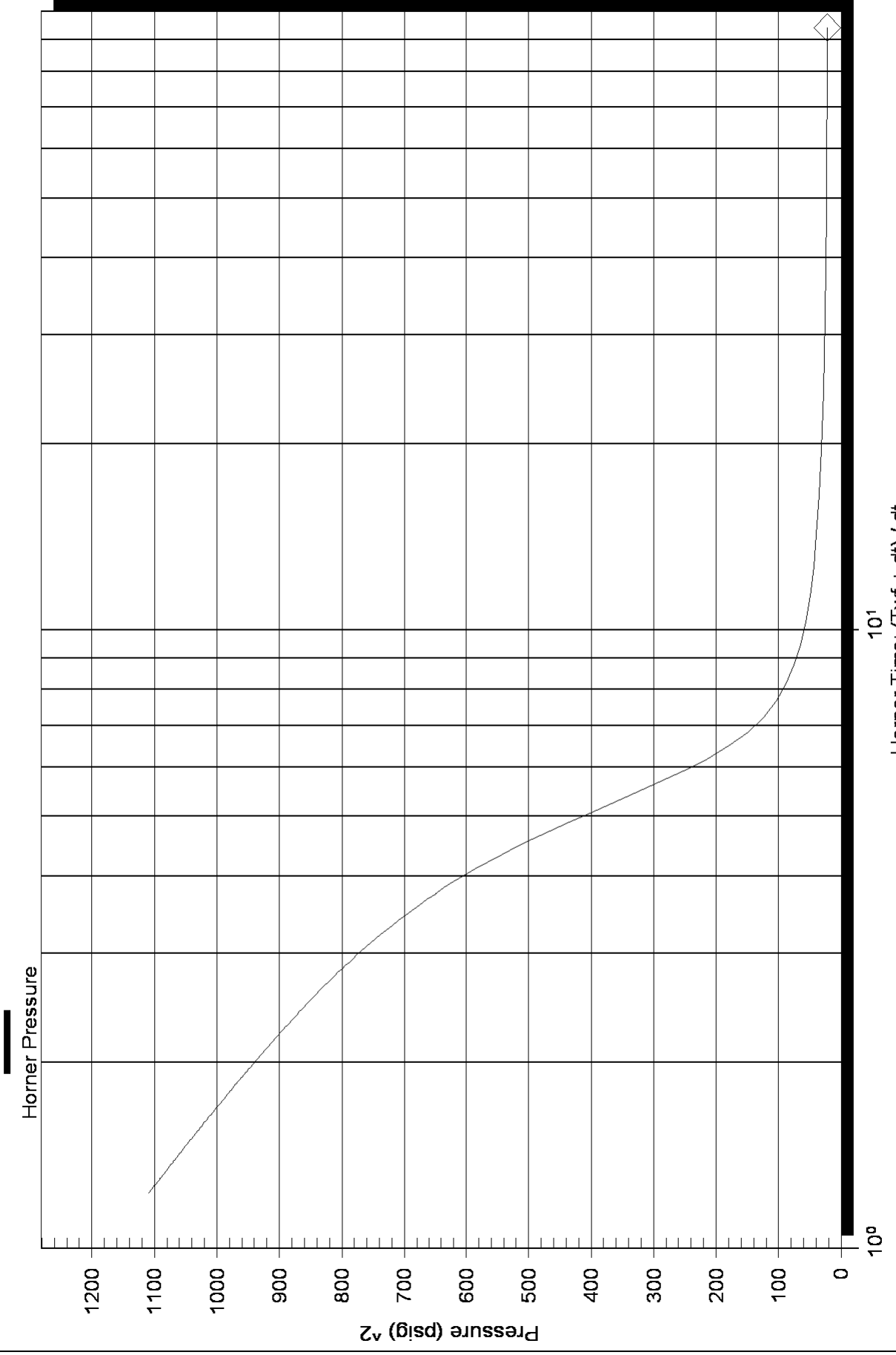
DST Test Number: 3



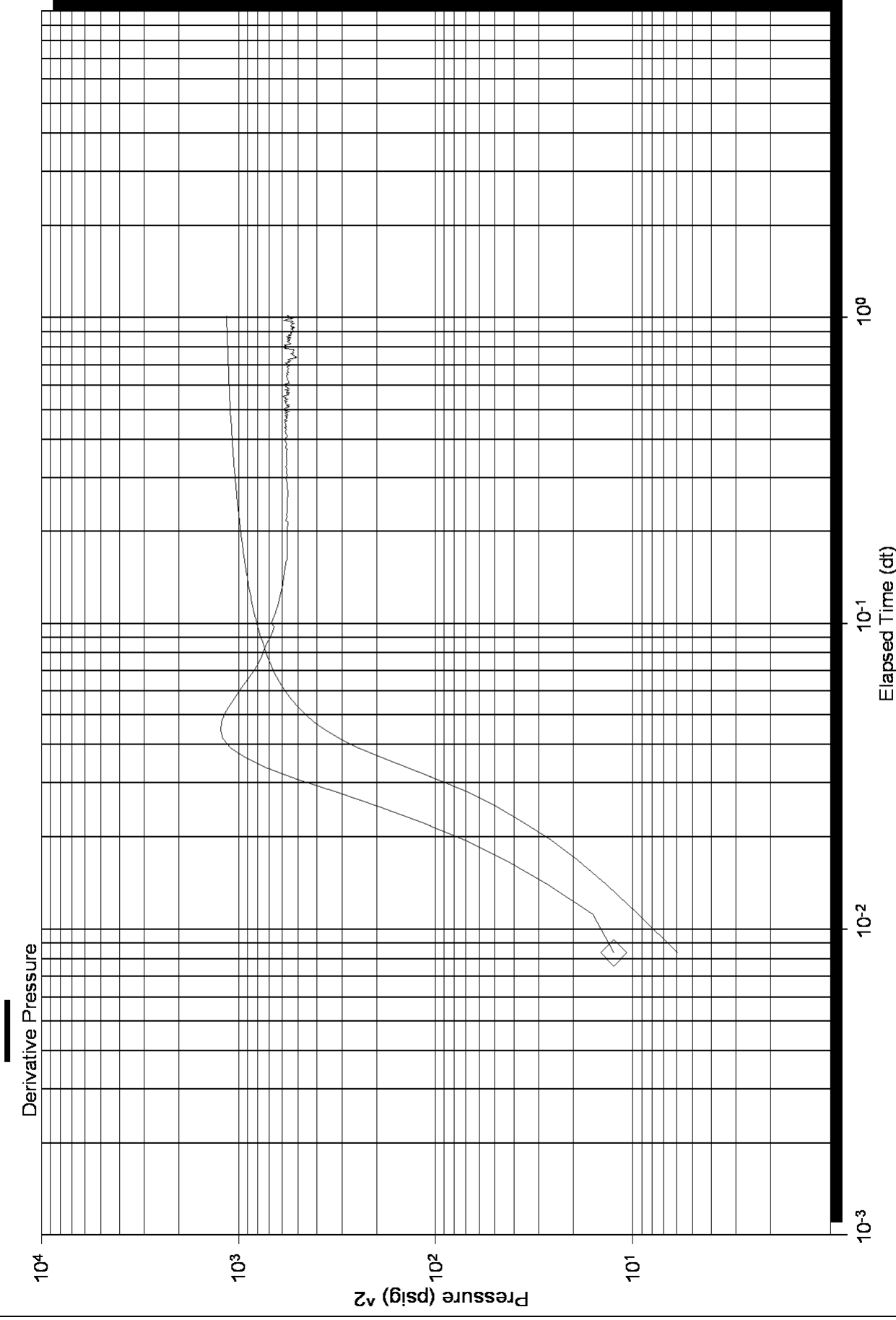
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

