



DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste.700
Denver Co. 80202

ATTN: Clayton Camozzi

36-15s-16 Ellis

Boxberger 4-36

Start Date: 2011.06.17 @ 08:44:05

End Date: 2011.06.17 @ 16:00:09

Job Ticket #: 042643 DST #: 1

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



TRILOBITE TESTING, INC.

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DST#: 1

Test Start: 2011.06.17 @ 08:44:05

GENERAL INFORMATION:

Formation: **LKC"A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:10

Time Test Ended: 16:00:09

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3177.00 ft (KB) To 3241.00 ft (KB) (TVD)

Reference Elevations: 1935.00 ft (KB)

Total Depth: 3241.00 ft (KB) (TVD)

1927.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 70.95 psig @ 3181.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.17 End Date: 2011.06.17

Last Calib.: 2011.06.17

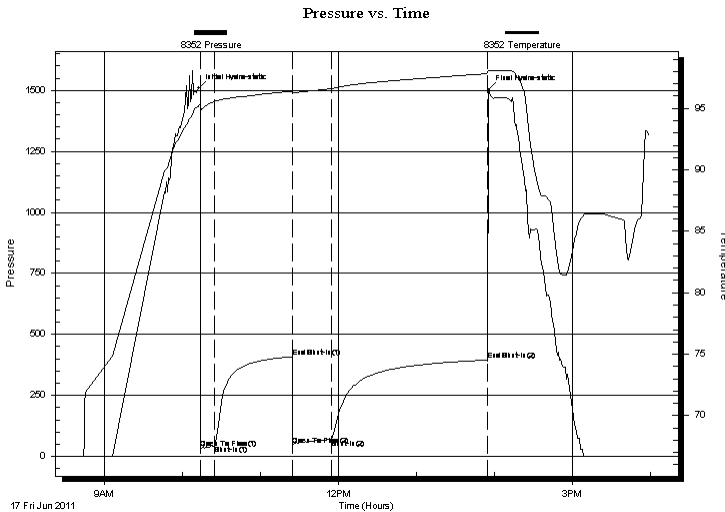
Start Time: 08:44:05 End Time: 16:00:10

Time On Btm: 2011.06.17 @ 10:12:30

Time Off Btm: 2011.06.17 @ 13:55:50

TEST COMMENT: IF:(10min) Fair, 8inch blow
IS:(60min) No Return
FF:(30min) BOB, 24min.
FS:(120min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1507.71	95.16	Initial Hydro-static
2	31.77	94.76	Open To Flow (1)
13	47.13	95.57	Shut-In(1)
72	408.75	96.40	End Shut-In(1)
73	43.80	96.28	Open To Flow (2)
103	70.95	96.62	Shut-In(2)
222	395.04	97.82	End Shut-In(2)
224	1502.77	98.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	SOSM	1.26

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2011.06.17 @ 08:44:05

Tool Information

Drill Pipe:	Length: 3124.00 ft	Diameter: 3.80 inches	Volume: 43.82 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:	24000.00 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: 43.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3177.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	101.00 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	8650	Fluid	3140.00	
Change Over Sub	1.00			3141.00	
Blank Spacing	5.00			3146.00	
Shut In Tool	5.00			3151.00	
Sampler	4.00			3155.00	
Hydraulic tool	5.00			3160.00	
Jars	5.00			3165.00	
Safety Joint	3.00			3168.00	
Packer	5.00			3173.00	37.00 Bottom Of Top Packer
Packer	4.00			3177.00	
Stubb	1.00			3178.00	
Perforations	2.00			3180.00	
Change Over Sub	1.00			3181.00	
Recorder	0.00	8017	Inside	3181.00	
Recorder	0.00	8352	Outside	3181.00	
Drill Pipe	31.00			3212.00	
Change Over Sub	1.00			3213.00	
Perforations	25.00			3238.00	
Bullnose	3.00			3241.00	64.00 Bottom Packers & Anchor

Total Tool Length: 101.00



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FLUID SUMMARY

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DST#: 1

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Test Start: 2011.06.17 @ 08:44:05

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	SOSM	1.261

Total Length: 110.00 ft Total Volume: 1.261 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

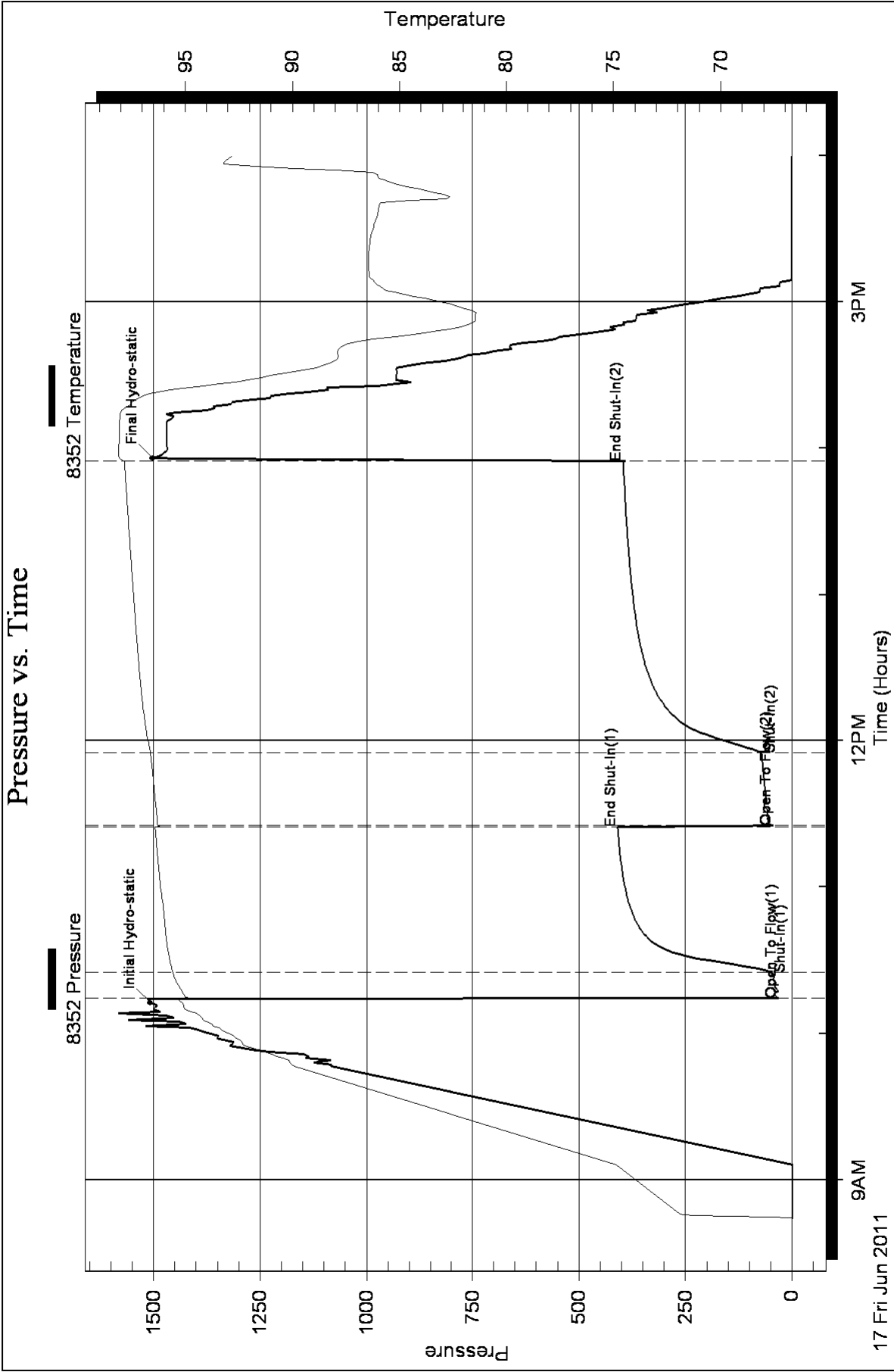
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- o=tr m=1300ml pressure=525ibs

Pressure vs. Time



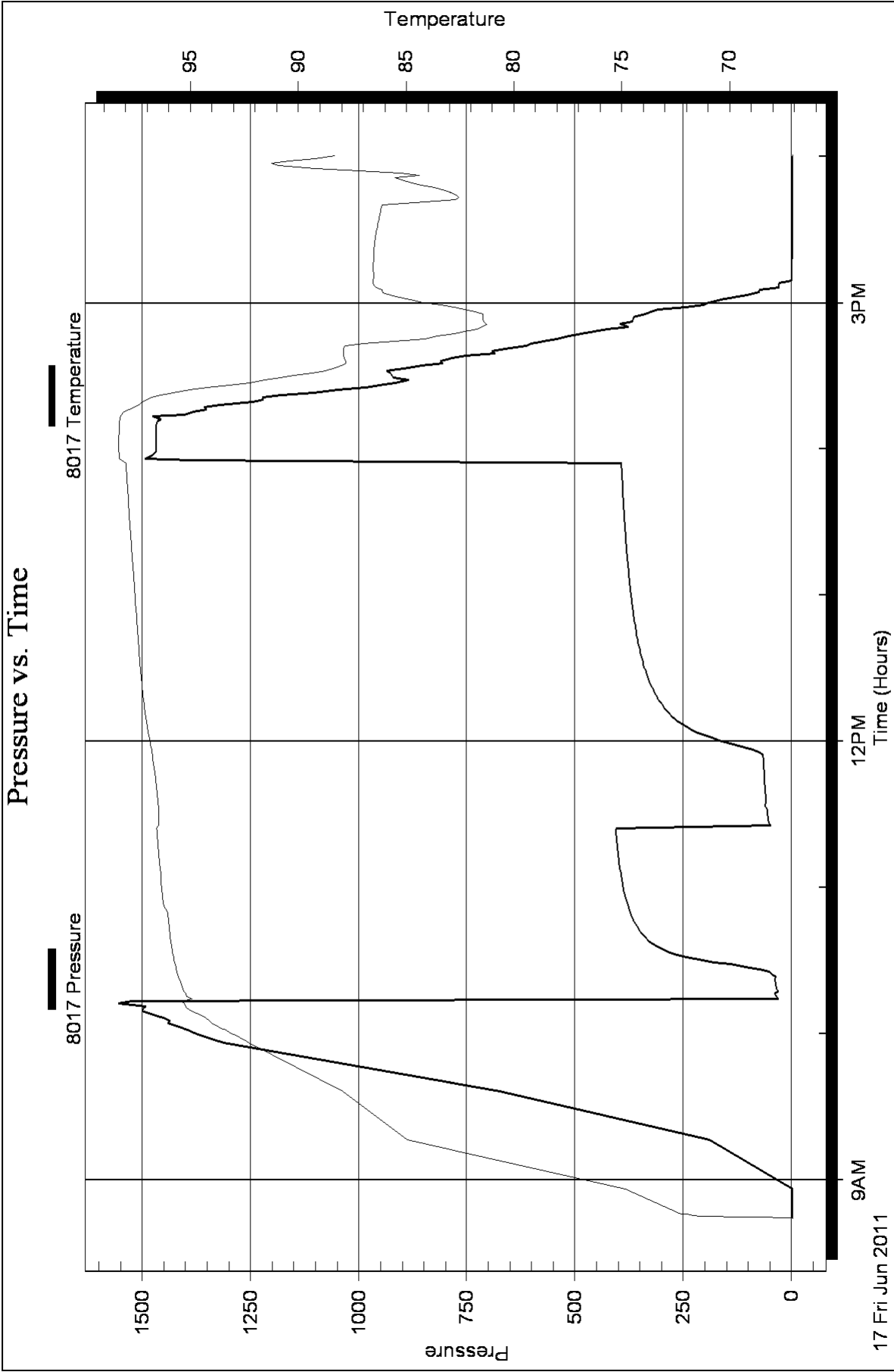
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Inside

S.Gary Jr&Assoc.inc.

36-15s-16 Ellis

DST Test Number: 1



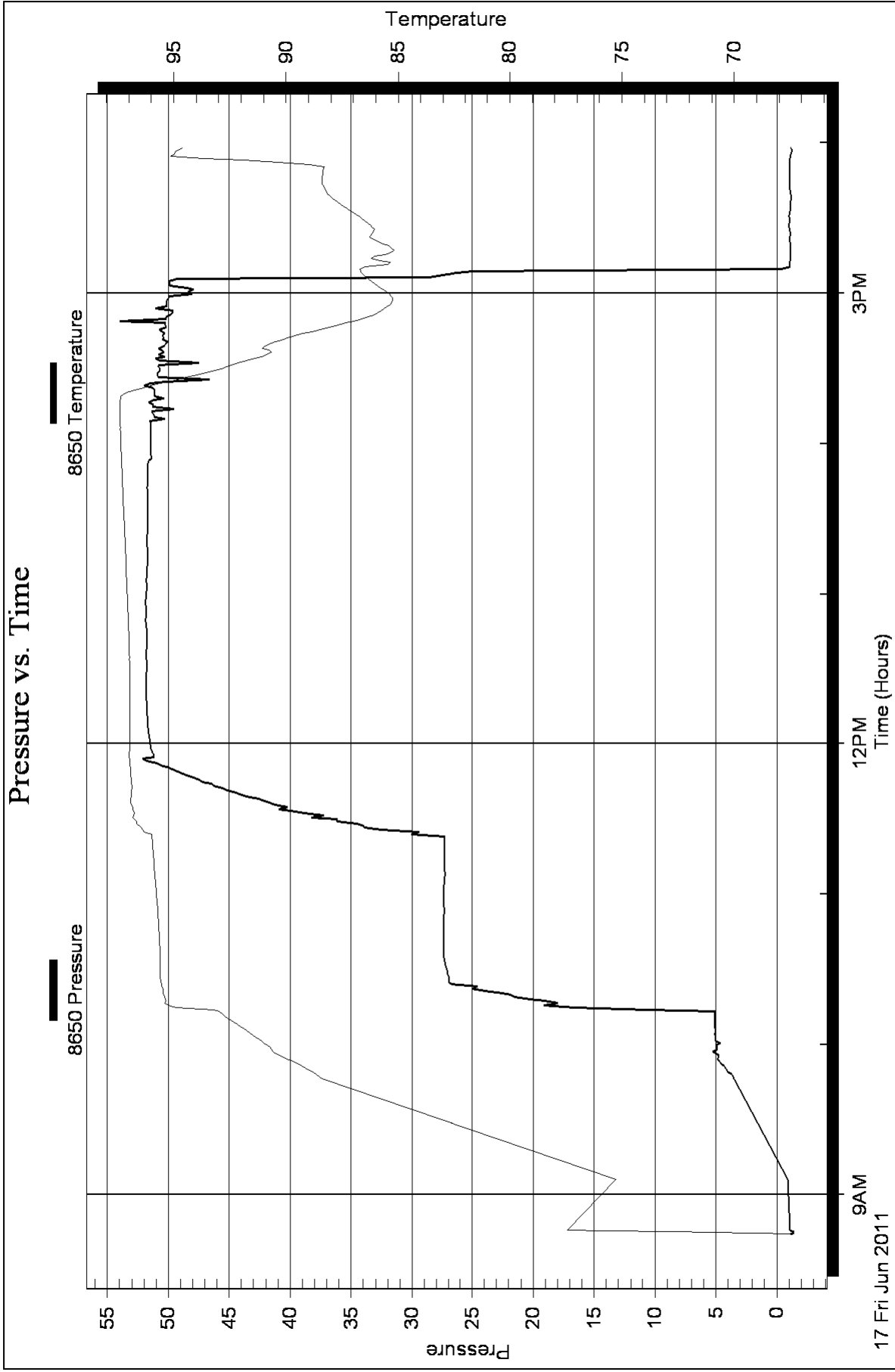
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Fluid

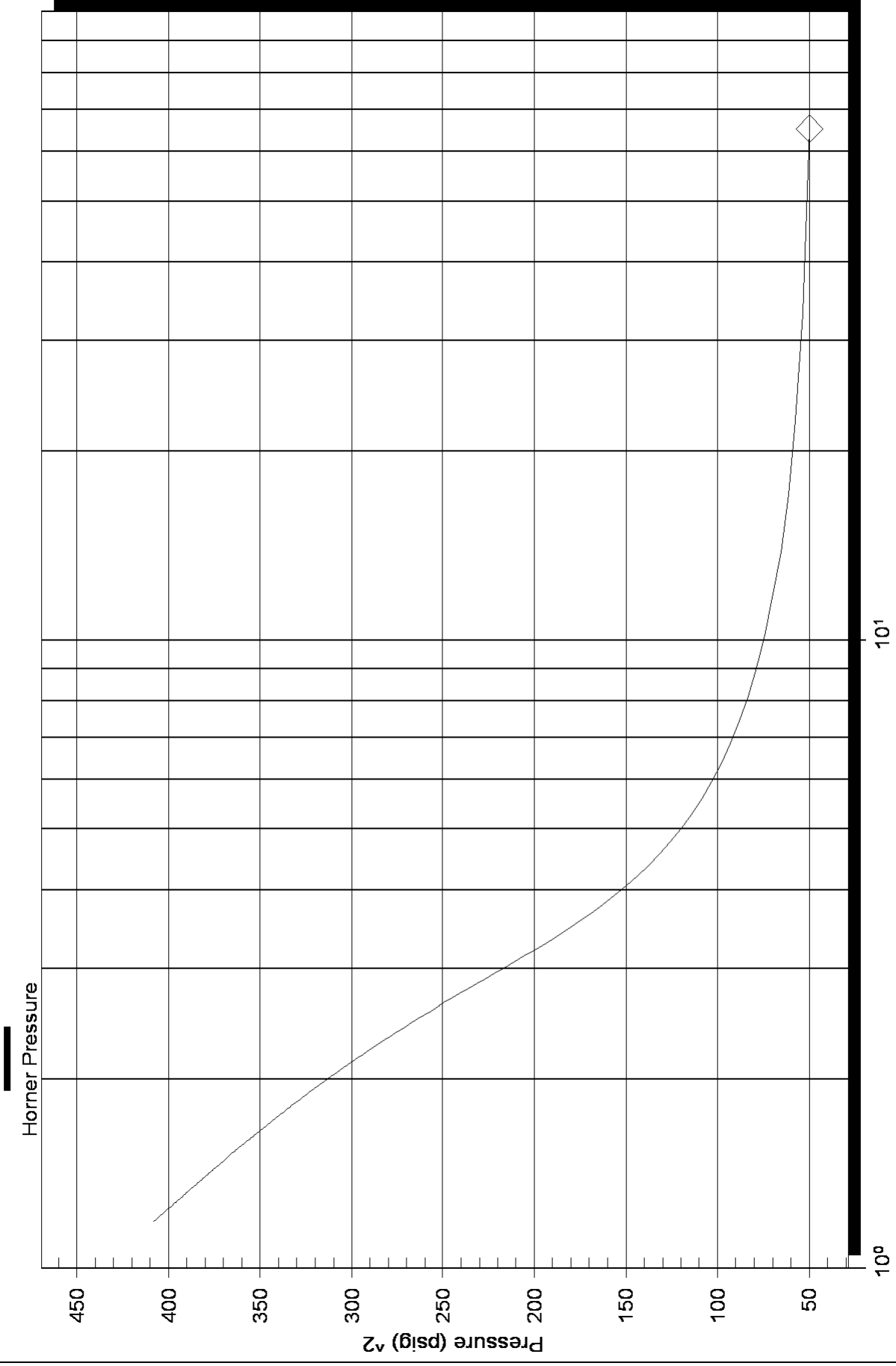
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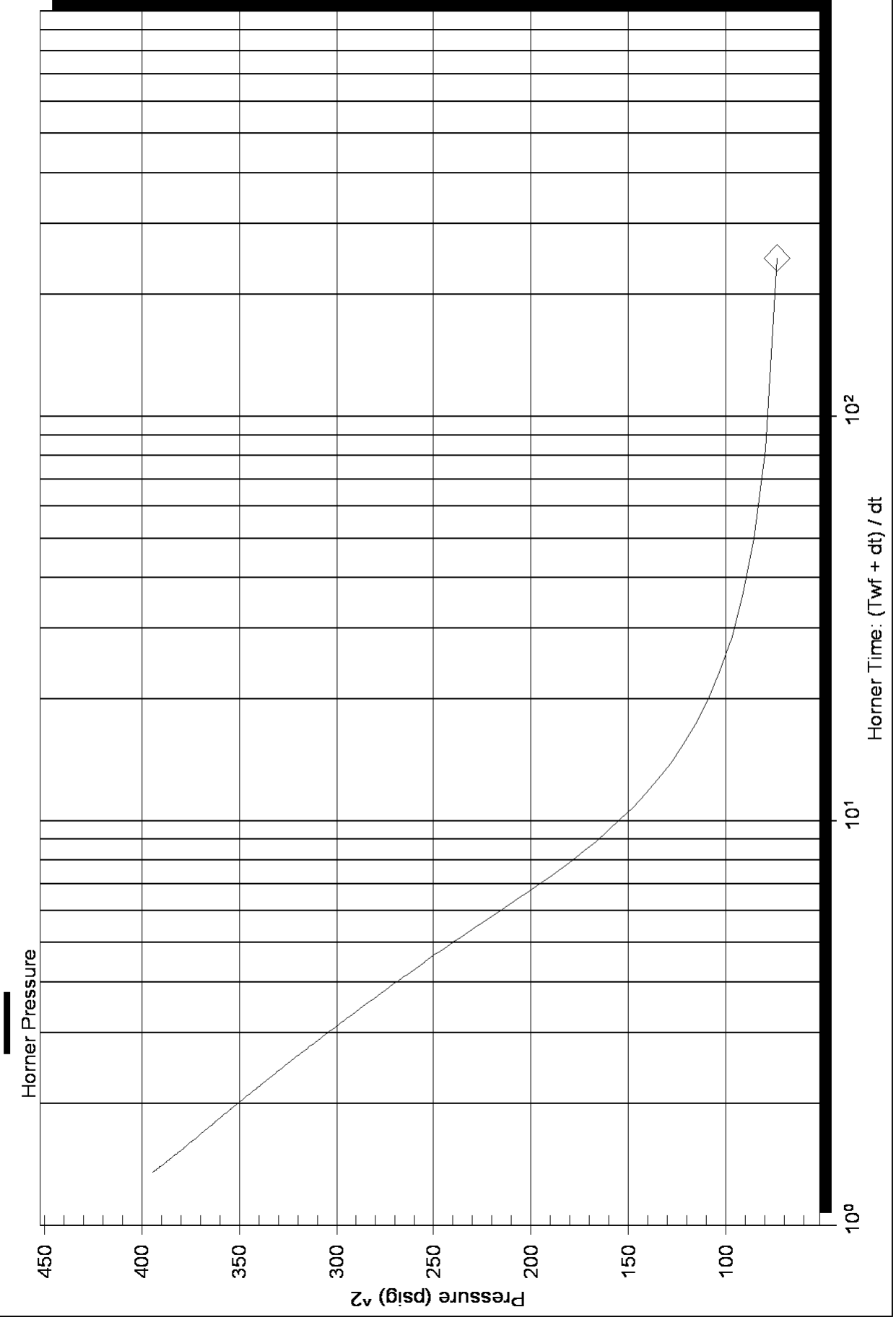
DST Test Number: 1



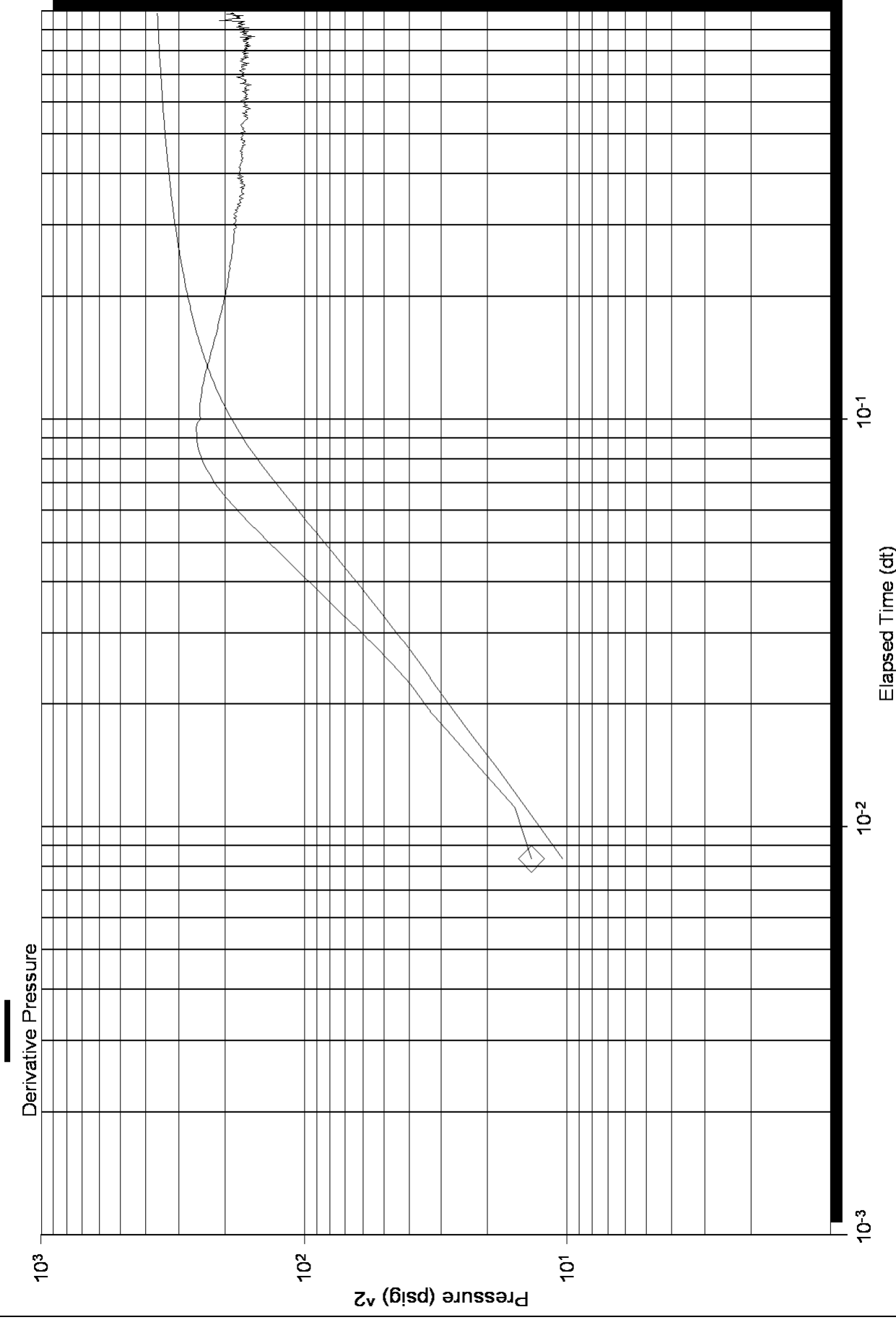
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Log-Derivative

