



## 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: 2011.06.25 @ 15:12:05

End Date: 2011.06.25 @ 21:45:39

Job Ticket #: 042648                      DST #: 1

Trilobite Testing, Inc  
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TESTING, INC.**

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Test Start: 2011.06.25 @ 15:12:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:40:40

Time Test Ended: 21:45:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

**Interval: 3175.00 ft (KB) To 3235.00 ft (KB) (TVD)**

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3235.00 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: 127.84 psig @ 3180.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.25 End Date: 2011.06.25

Last Calib.: 2011.06.25

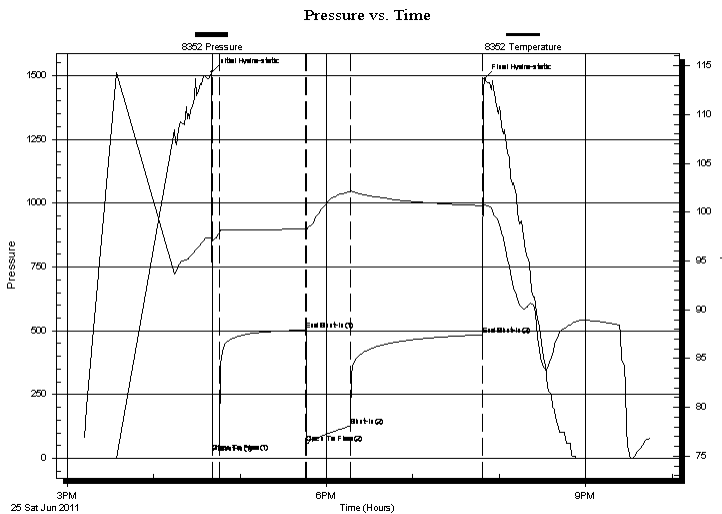
Start Time: 15:12:05 End Time: 21:45:40

Time On Btm: 2011.06.25 @ 16:40:10

Time Off Btm: 2011.06.25 @ 19:49:39

**TEST COMMENT:** IF:(5min) 6 inch Building Blow  
IS:(60min) No Return  
FF:(30min) BOB, 17 min.  
FS:(90min) No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.22	97.50	Initial Hydro-static
1	23.87	97.06	Open To Flow (1)
6	55.30	97.91	Shut-In(1)
66	503.15	98.30	End Shut-In(1)
67	58.20	98.17	Open To Flow (2)
97	127.84	102.05	Shut-In(2)
188	484.17	100.67	End Shut-In(2)
190	1487.13	100.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW	2.52

## 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: 3126.00 ft	Diameter: 3.80 inches	Volume: 43.85 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: 52000.00 lb
			<u>Total Volume: 44.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3175.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	95.00 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	2.00			3153.00	
Hydraulic tool	5.00			3158.00	
Jars	5.00			3163.00	
Safety Joint	3.00			3166.00	
Packer	5.00			3171.00	35.00 Bottom Of Top Packer
Packer	4.00			3175.00	
Stubb	1.00			3176.00	
Perforations	3.00			3179.00	
Change Over Sub	1.00			3180.00	
Recorder	0.00	8017	Inside	3180.00	
Recorder	0.00	8352	Outside	3180.00	
Drill Pipe	31.00			3211.00	
Change Over Sub	1.00			3212.00	
Perforations	20.00			3232.00	
Bullnose	3.00			3235.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 95.00**



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## FLUID SUMMARY

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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:

72000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MW	2.523

Total Length: 200.00 ft      Total Volume: 2.523 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

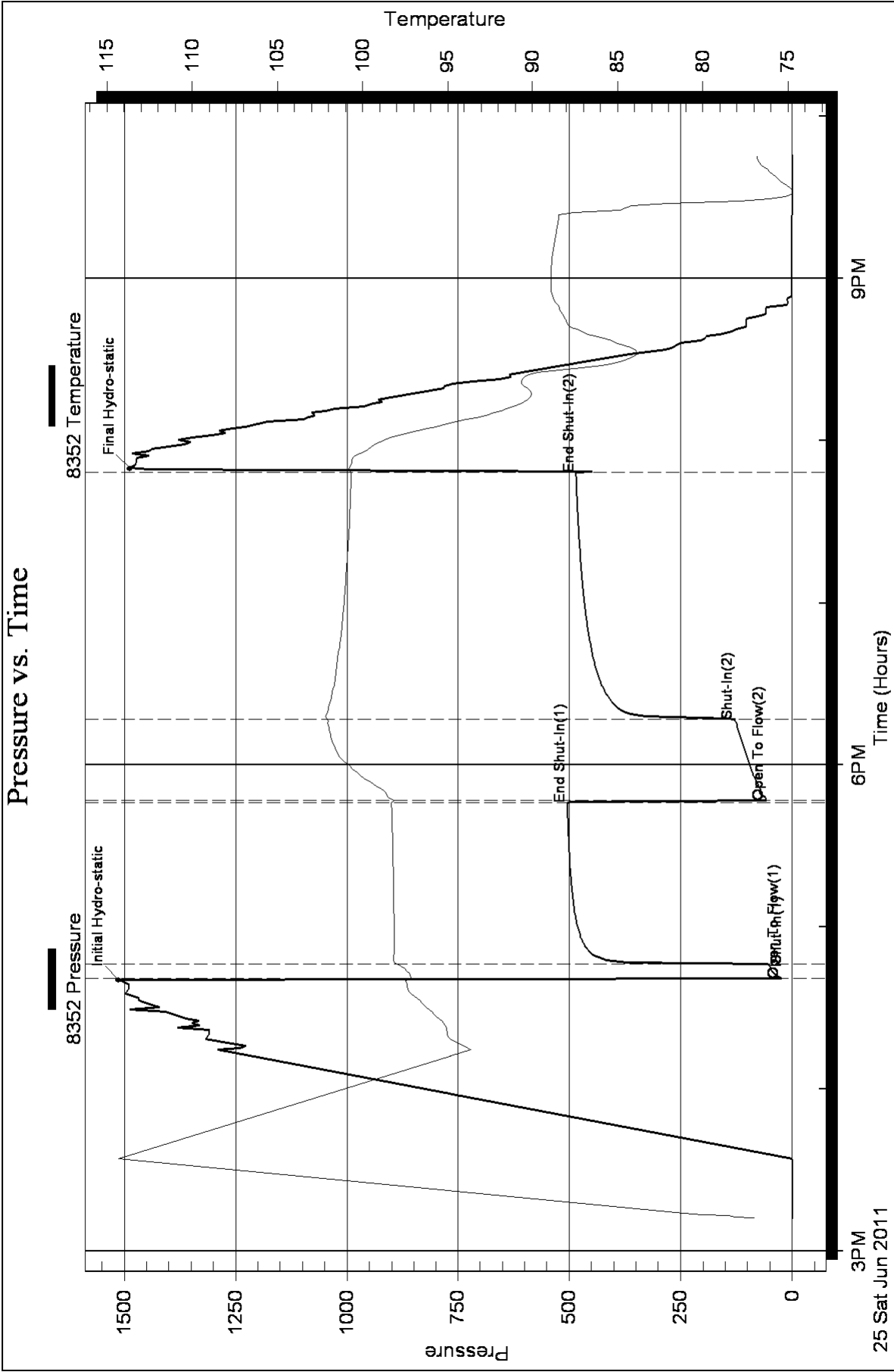
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- w =800ml pressure=120lbs

### Pressure vs. Time



Serial #: 8017

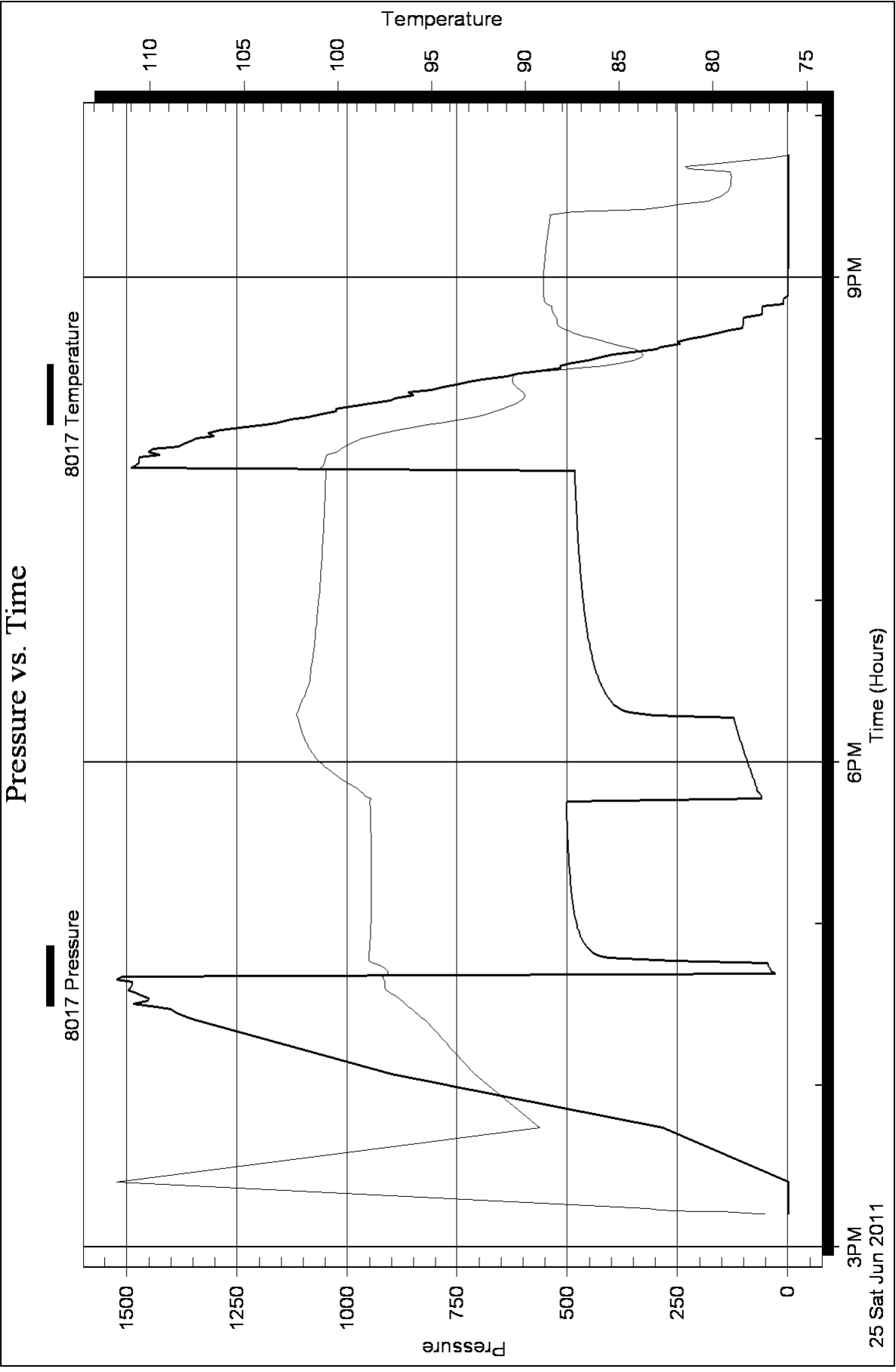
Inside

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### Pressure vs. Time





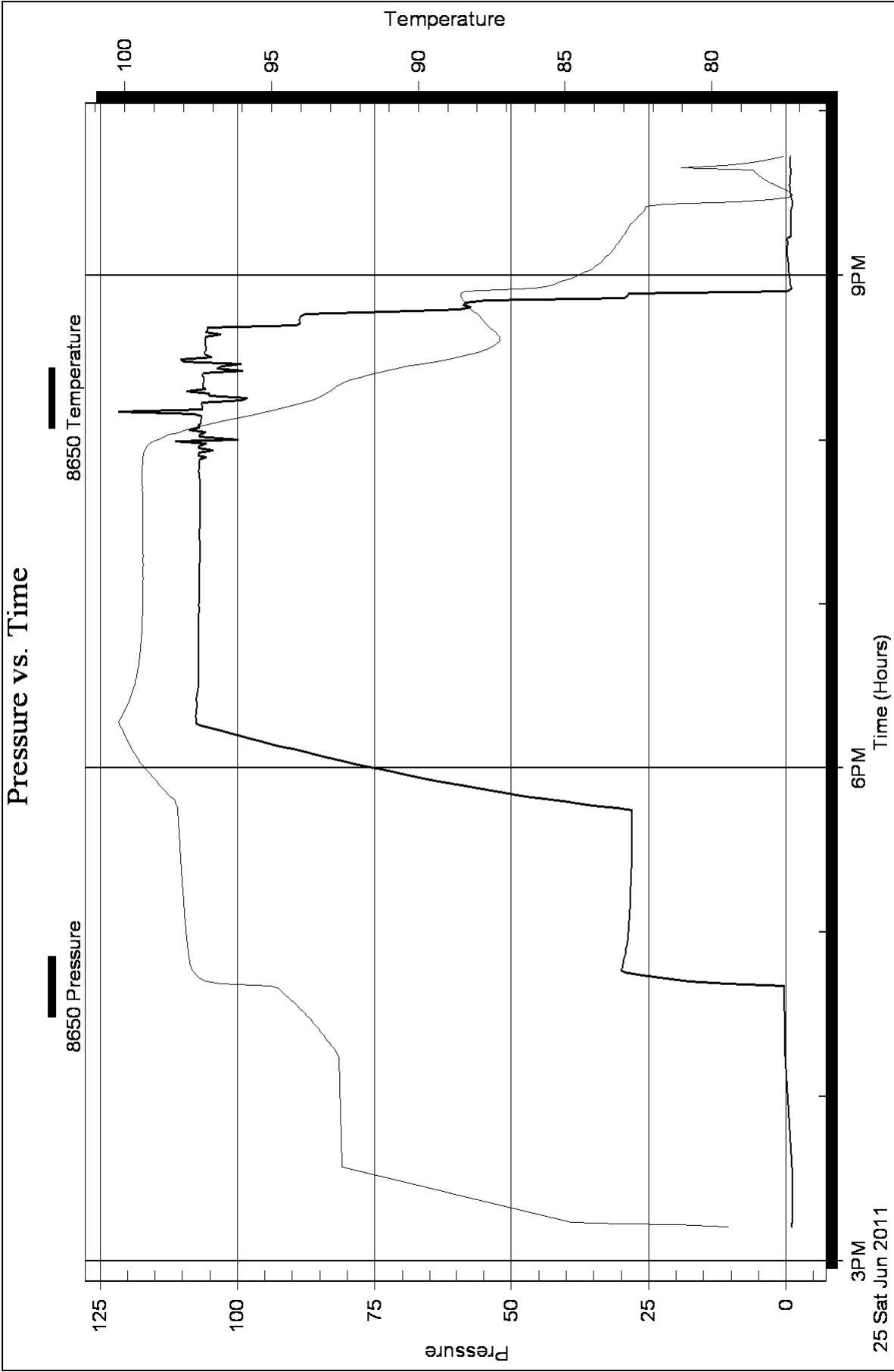
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Fluid

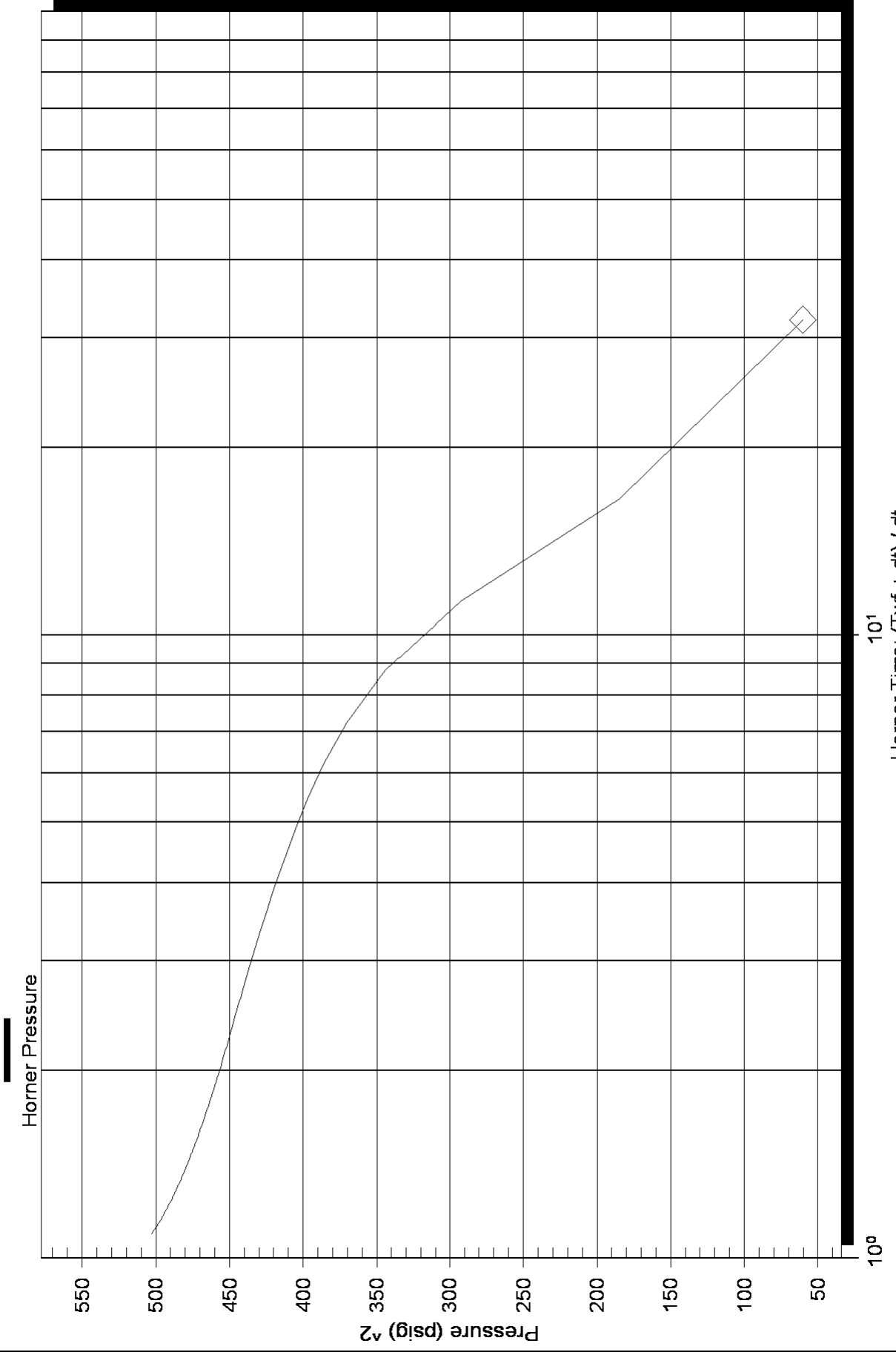
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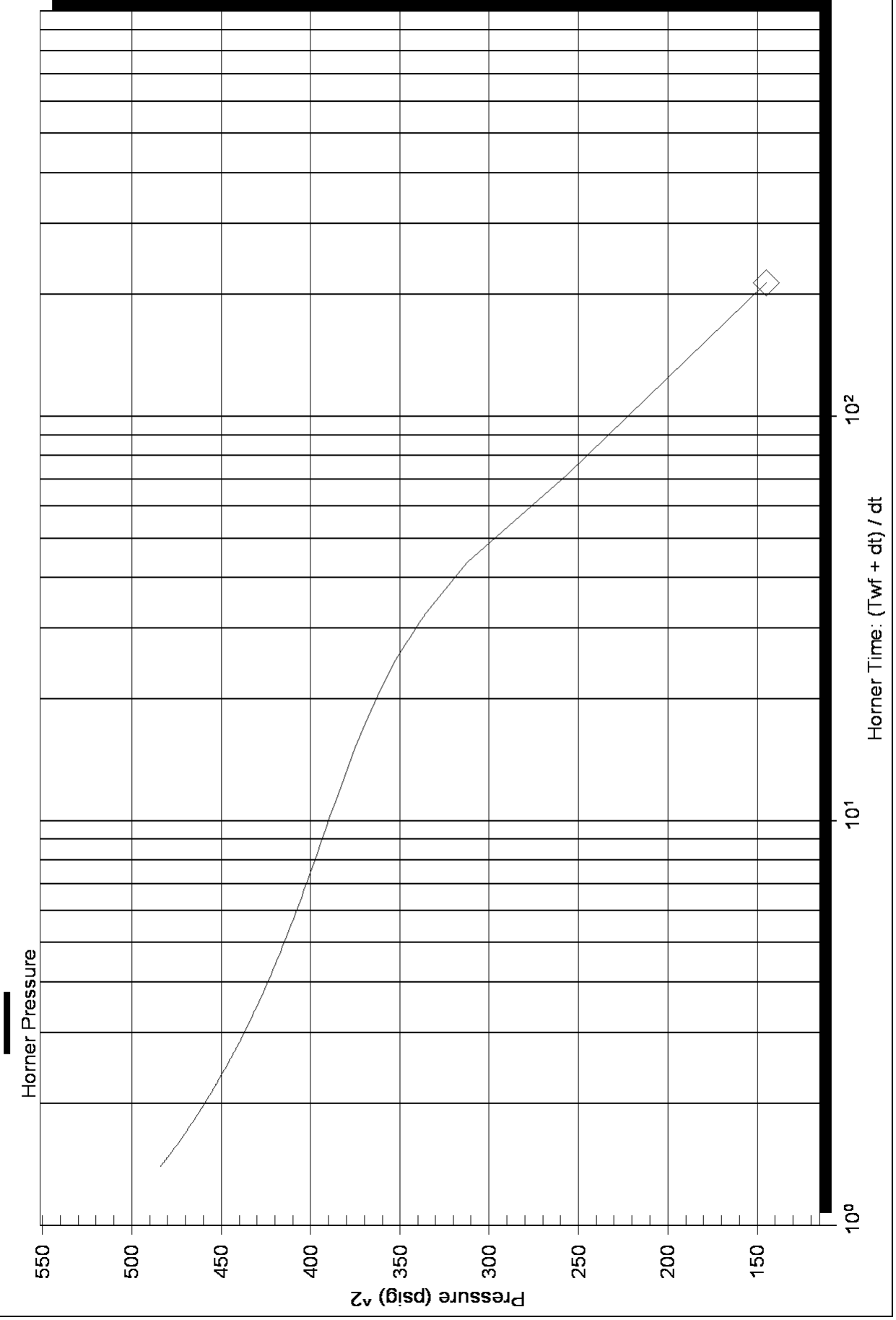
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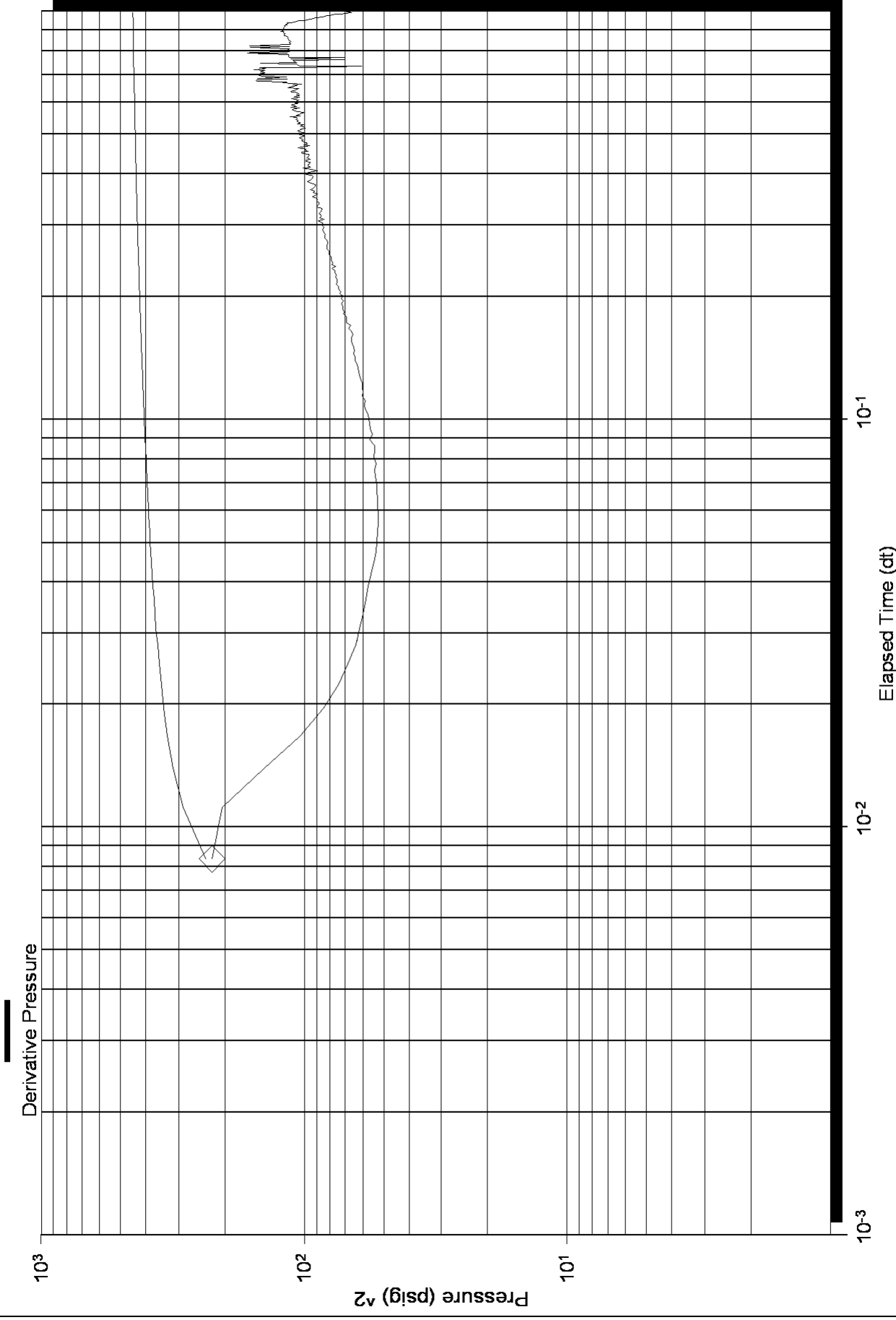
### Homer Plot



### Homer Plot



# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative

