



## DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr.&Associates Inc**

1515 Wynkoop  
Ste 700  
Denver Co 80202

ATTN: Clayton Camozzi

**16-17s-12w Barton**

**Prosser #1-16**

Start Date: 2010.06.24 @ 12:38:26

End Date: 2010.06.24 @ 19:41:50

Job Ticket #: 38716                      DST #: 2

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



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Job Ticket: 38716 **DST#: 2**

Test Start: 2010.06.24 @ 12:38:26

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:07:21  
 Time Test Ended: 19:41:50  
 Interval: **3342.00 ft (KB) To 3350.00 ft (KB) (TVD)**  
 Total Depth: 3469.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Straddle  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 1974.00 ft (KB)  
 1964.00 ft (CF)  
 KB to GR/CF: 10.00 ft

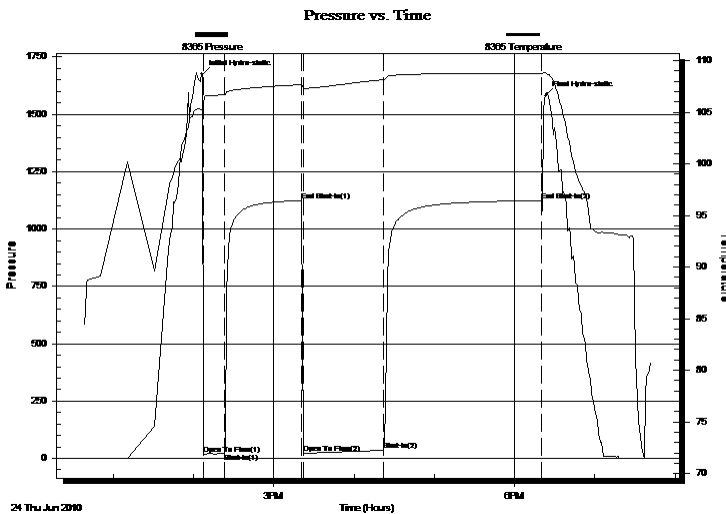
## Serial #: 8365

Inside

Press @ Run Depth: 34.80 psig @ 3343.01 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.06.24 End Date: 2010.06.24 Last Calib.: 2010.06.24  
 Start Time: 12:38:26 End Time: 19:41:50 Time On Btm: 2010.06.24 @ 14:06:21  
 Time Off Btm: 2010.06.24 @ 18:23:20

TEST COMMENT: IFP-w k bl 1/4"to 1"bl  
 FFP-no bl 1st 15min, then surface bl thru-out  
 Times 15-60-60-120  
 no bl on shut-in

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.31	105.24	Initial Hydro-static
1	19.02	105.90	Open To Flow (1)
17	20.61	106.70	Shut-In(1)
75	1124.14	107.68	End Shut-In(1)
76	21.91	107.34	Open To Flow (2)
136	34.80	108.16	Shut-In(2)
254	1123.52	108.78	End Shut-In(2)
257	1579.77	108.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	CO	0.49
20.00	HOCM 20% O80%M	0.28

## Gas Rates

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



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Test Start: 2010.06.24 @ 12:38:26

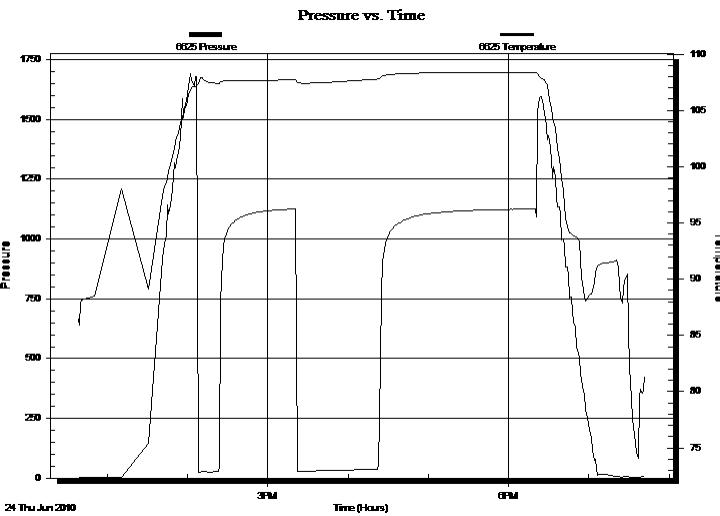
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 Test Type: Conventional Straddle  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 1974.00 ft (KB)  
 1964.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6625 Outside**

Press @ Run Depth: psig @ 3343.02 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.06.24 End Date: 2010.06.24 Last Calib.: 2010.06.24  
 Start Time: 12:38:26 End Time: 19:41:50 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP-w k bl 1/4"to 1"bl  
 FFP-no bl 1st 15min, then surface bl thru-out  
 Times 15-60-60-120  
 no bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	CO	0.49
20.00	HOCM 20% O80%M	0.28

## Gas Rates

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





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**TOOL DIAGRAM**

Sam Gary Jr.&Associates Inc

**Prosser #1-16**

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Ste 700  
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Job Ticket: 38716

**DST#: 2**

Test Start: 2010.06.24 @ 12:38:26

## Tool Information

Drill Pipe:	Length: 3319.00 ft	Diameter: 3.80 inches	Volume: 46.56 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 46.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3342.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	3350.02 ft			
Interval between Packers:	8.02 ft			
Tool Length:	159.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3315.00	
Shut In Tool	5.00			3320.00	
Hydraulic tool	5.00			3325.00	
Jars	5.00			3330.00	
Safety Joint	2.00			3332.00	
Packer	5.00			3337.00	28.00 Bottom Of Top Packer
Packer	5.00			3342.00	
Stubb	1.00			3343.00	
Recorder	0.01	8365	Inside	3343.01	
Recorder	0.01	6625	Outside	3343.02	
Perforations	3.00			3346.02	
Blank Off Sub	1.00			3347.02	
Blank Spacing	3.00			3350.02	8.02 Tool Interval
Packer	5.00			3355.02	
Stubb	1.00			3356.02	
Recorder	0.01	8652	Below	3356.03	
Blank Spacing	93.00			3449.03	
Perforations	21.00			3470.03	
Bullnose	3.00			3473.03	123.01 Bottom Packers & Anchor

**Total Tool Length: 159.03**



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**FLUID SUMMARY**

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## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 11.08 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7300.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 35 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	CO	0.491
20.00	HOCM 20% O 80% M	0.281

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

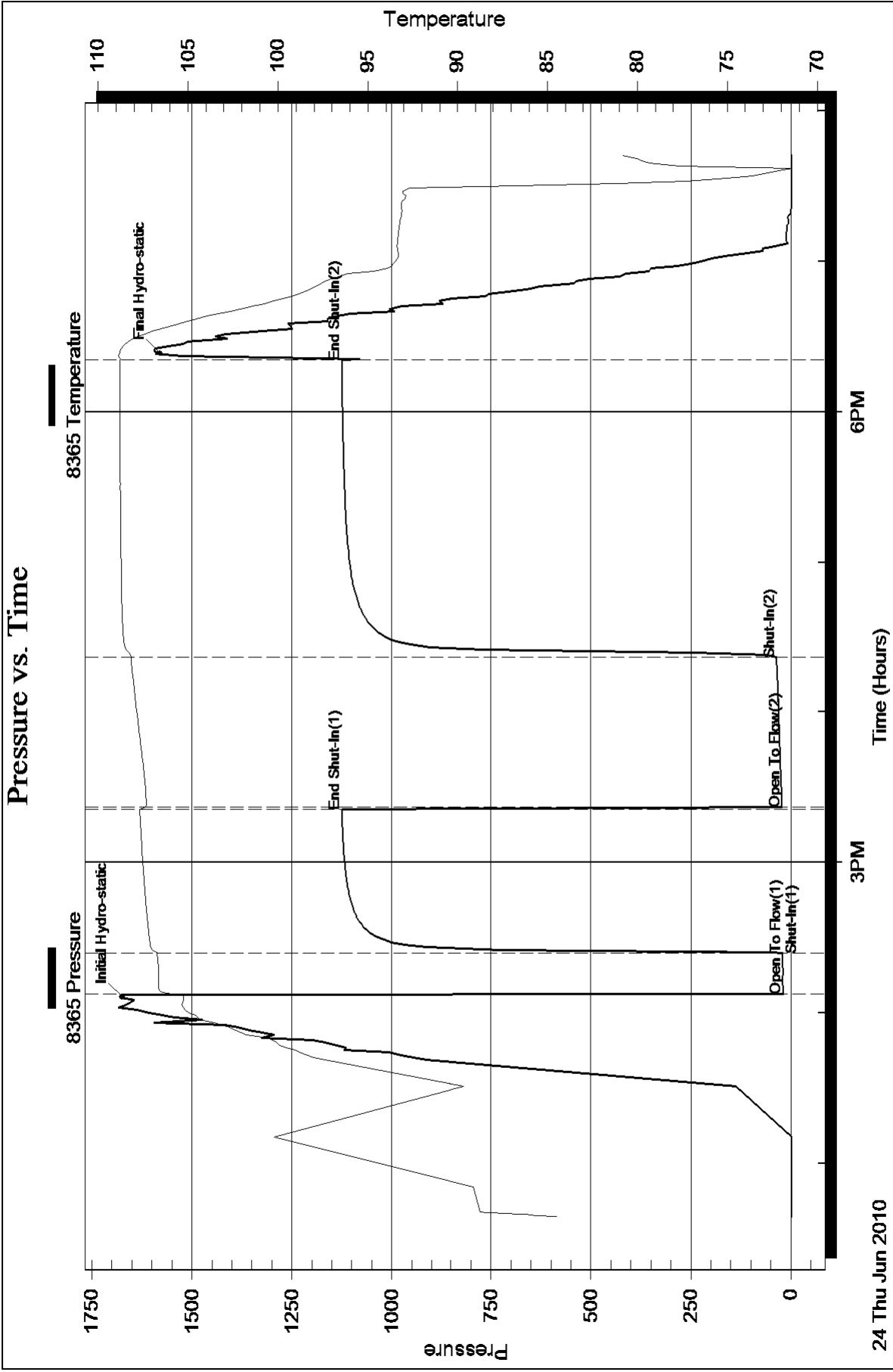
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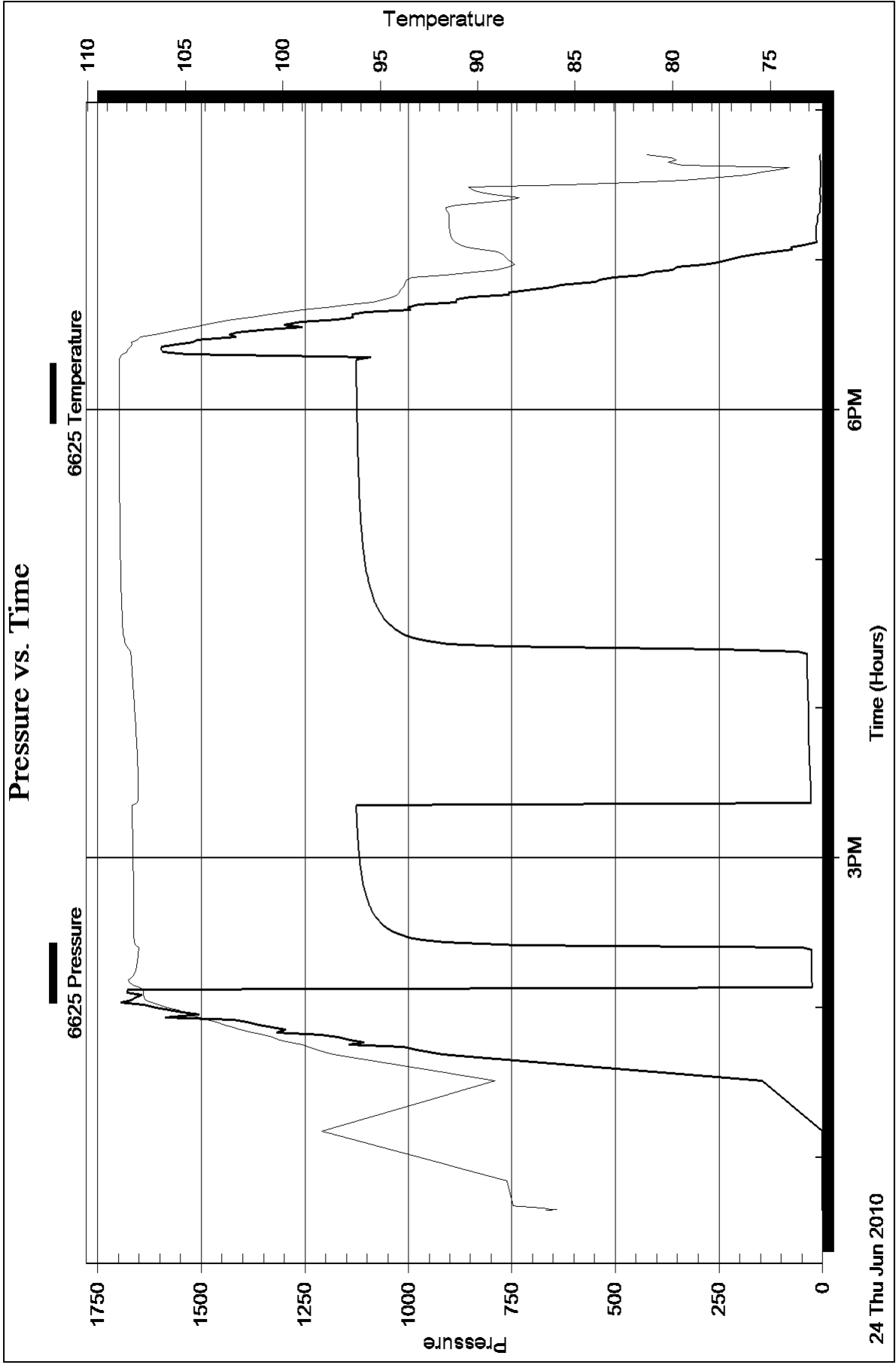
Serial #:

Laboratory Name:

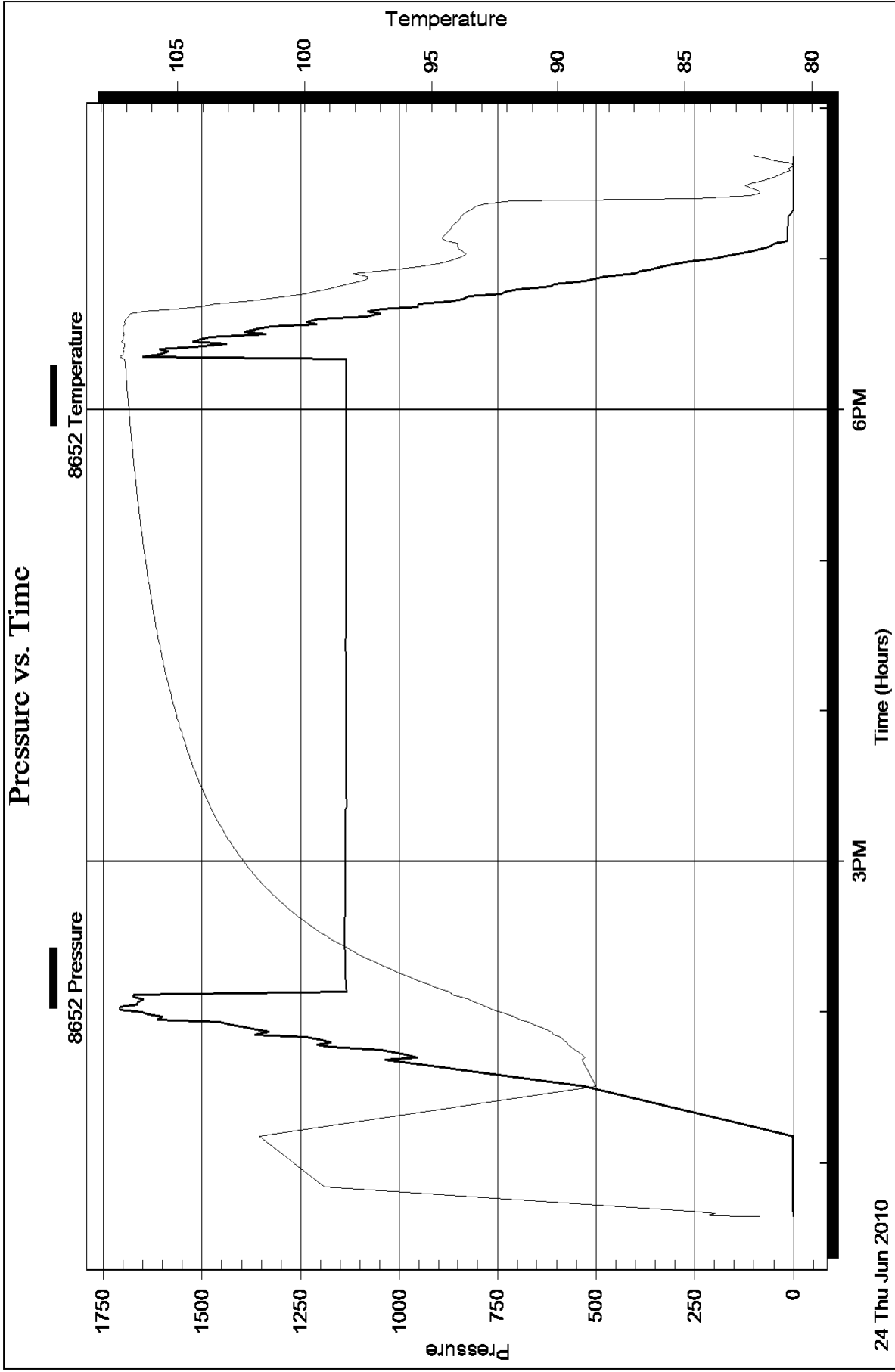
Laboratory Location:

Recovery Comments:

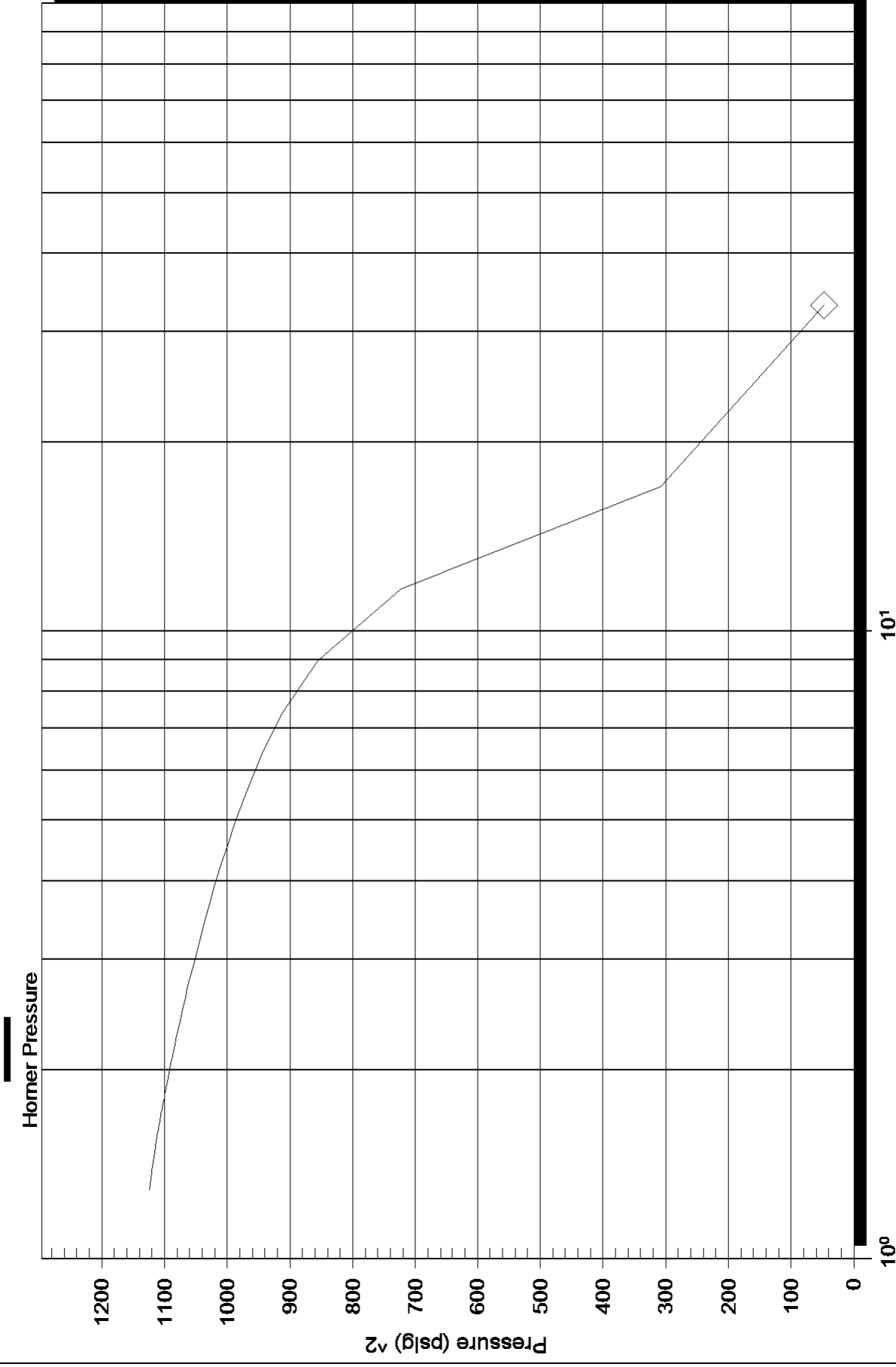




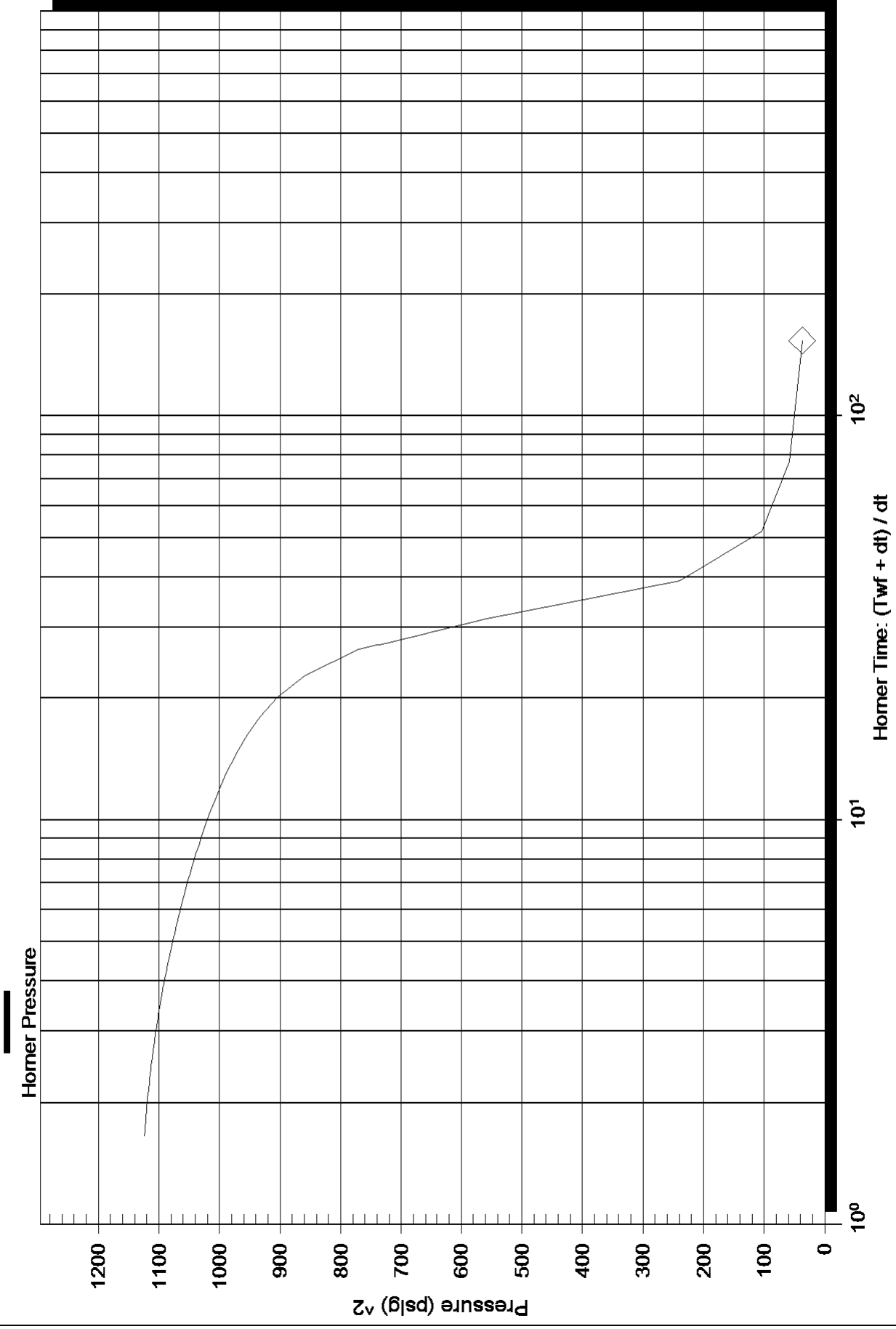




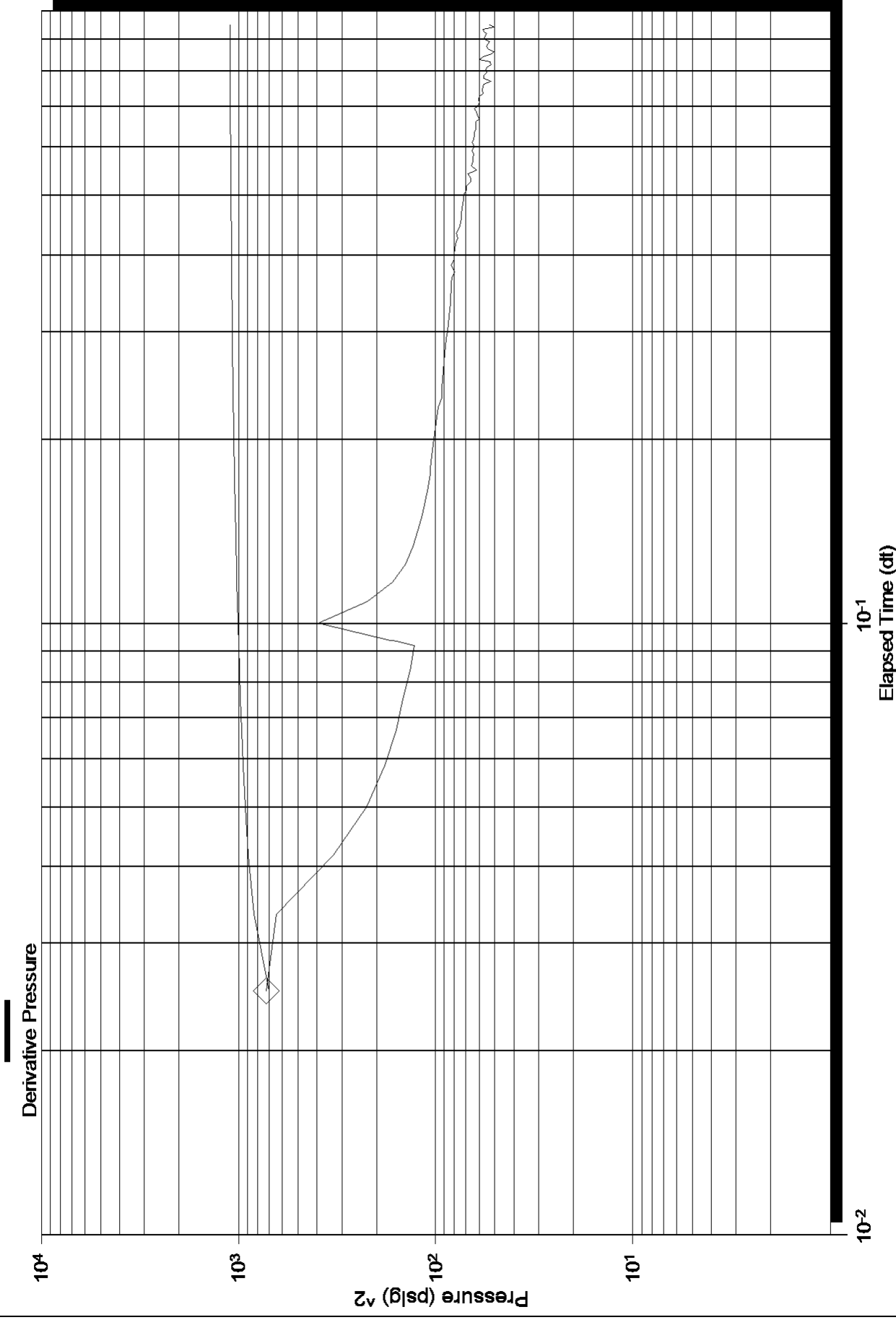
### Homer Plot



### Homer Plot



# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative

