



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

26-16s-16w-Rush

Clair #4-26

Start Date: 2011.07.25 @ 20:00:39

End Date: 2011.07.26 @ 03:36:24

Job Ticket #: 549 DST #: 2

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: 2011.07.25 @ 20:00:39

GENERAL INFORMATION:

Formation: **D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:45:39
 Time Test Ended: 03:36:24
 Interval: **3309.00 ft (KB) To 3324.00 ft (KB) (TVD)**
 Total Depth: 3324.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1991.00 ft (KB)
 1981.00 ft (CF)
 KB to GR/CF: 10.00 ft

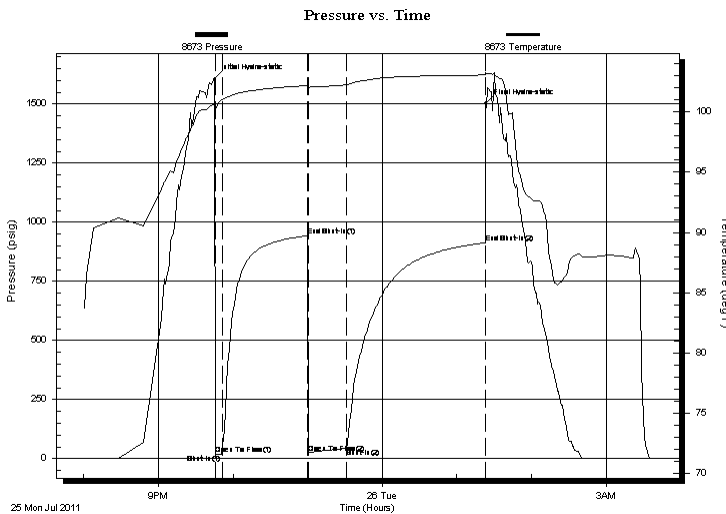
Serial #: 8673

Inside

Press @ Run Depth: 44.52 psig @ 3311.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.25 End Date: 2011.07.26 Last Calib.: 2011.07.26
 Start Time: 20:00:41 End Time: 03:36:24 Time On Btm: 2011.07.25 @ 21:45:09
 Time Off Btm: 2011.07.26 @ 01:23:24

TEST COMMENT: IFP-Strong, BOB in 2 Min., 45 Sec.
 ISI-Dead
 FFP-Strong, BOB in 1 Min.
 FSI-Blow back Built to 2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.21	100.60	Initial Hydro-static
1	20.56	99.55	Open To Flow (1)
6	20.49	101.00	Shut-In(1)
75	942.61	102.18	End Shut-In(1)
76	24.37	101.94	Open To Flow (2)
107	44.52	102.27	Shut-In(2)
218	913.38	103.07	End Shut-In(2)
219	1503.35	103.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MCO-75%O-25%M	1.33
0.00	900' Gas In Pipe	0.00

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: 3280.00 ft	Diameter: 3.80 inches	Volume: 46.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 46.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3309.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8736	Fluid	3275.00	
Change Over Sub	5.00			3280.00	
Shut In Tool	5.00			3285.00	
Sampler	2.00			3287.00	
Hydraulic tool	5.00			3292.00	
Jars	5.00			3297.00	
Safety Joint	2.00			3299.00	
Packer	5.00			3304.00	34.00 Bottom Of Top Packer
Packer	5.00			3309.00	
Stubb	1.00			3310.00	
Perforations	1.00			3311.00	
Recorder	0.00	8673	Inside	3311.00	
Recorder	0.00	6755	Outside	3311.00	
Perforations	10.00			3321.00	
Bullnose	3.00			3324.00	15.00 Bottom Packers & Anchor

Total Tool Length: 49.00



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FLUID SUMMARY

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Test Start: 2011.07.25 @ 20:00:39

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: inches

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

Oil API: 33 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	MCO-75%O-25%M	1.333
0.00	900' Gas In Pipe	0.000

Total Length: 95.00 ft Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-500#,2000ml Gassy Oil



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GAS RATES

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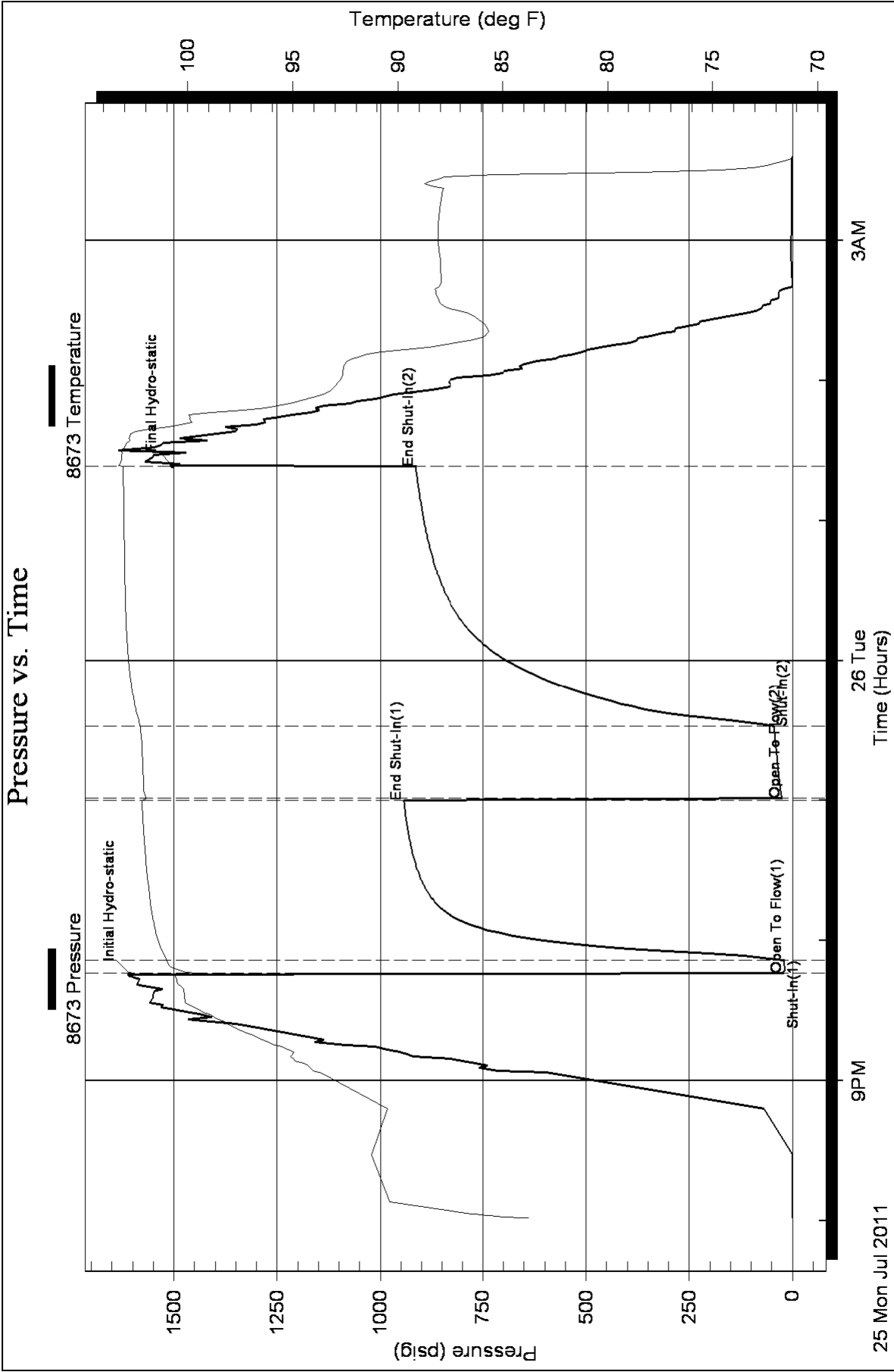
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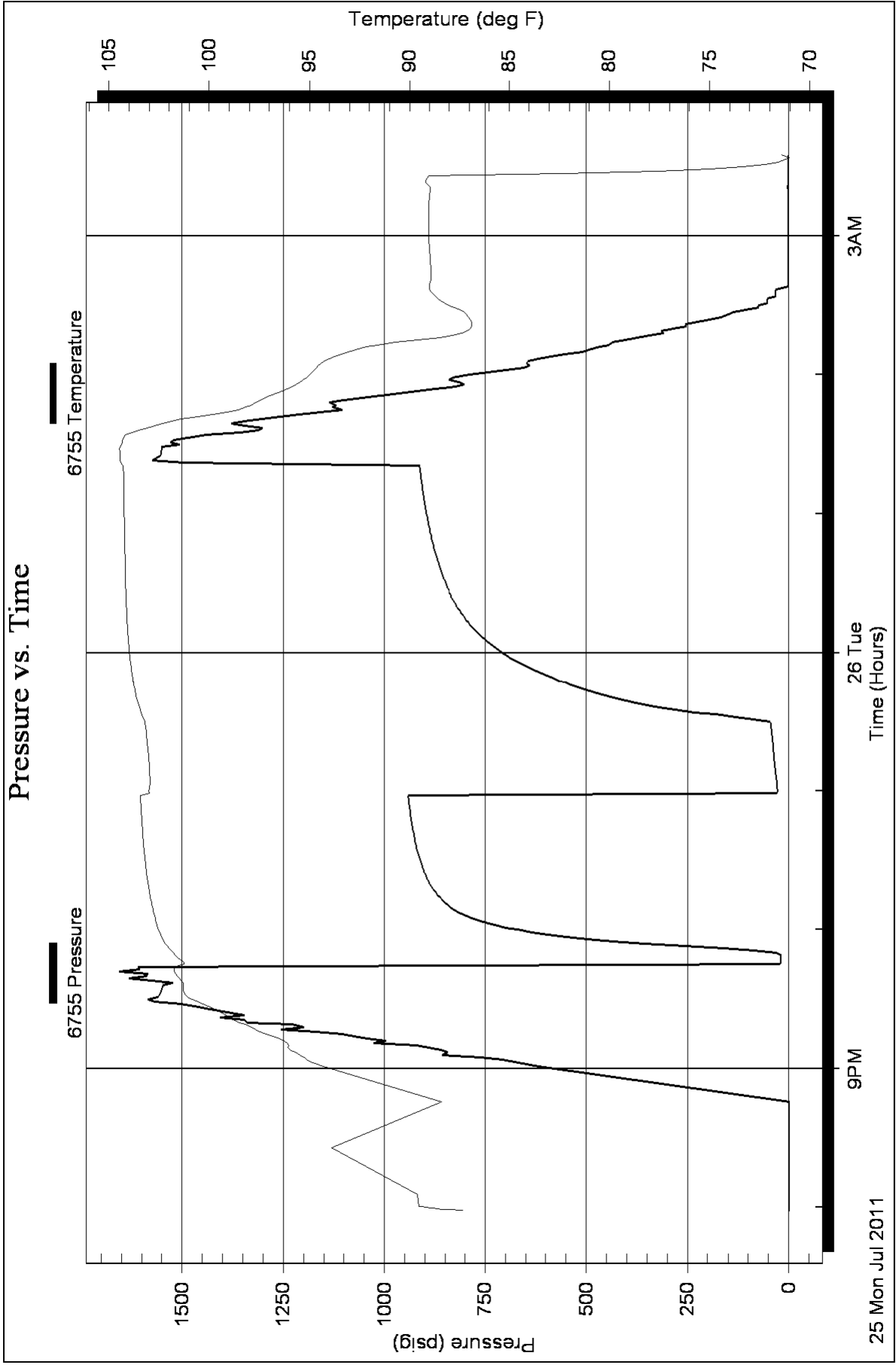
Gas Rates Information

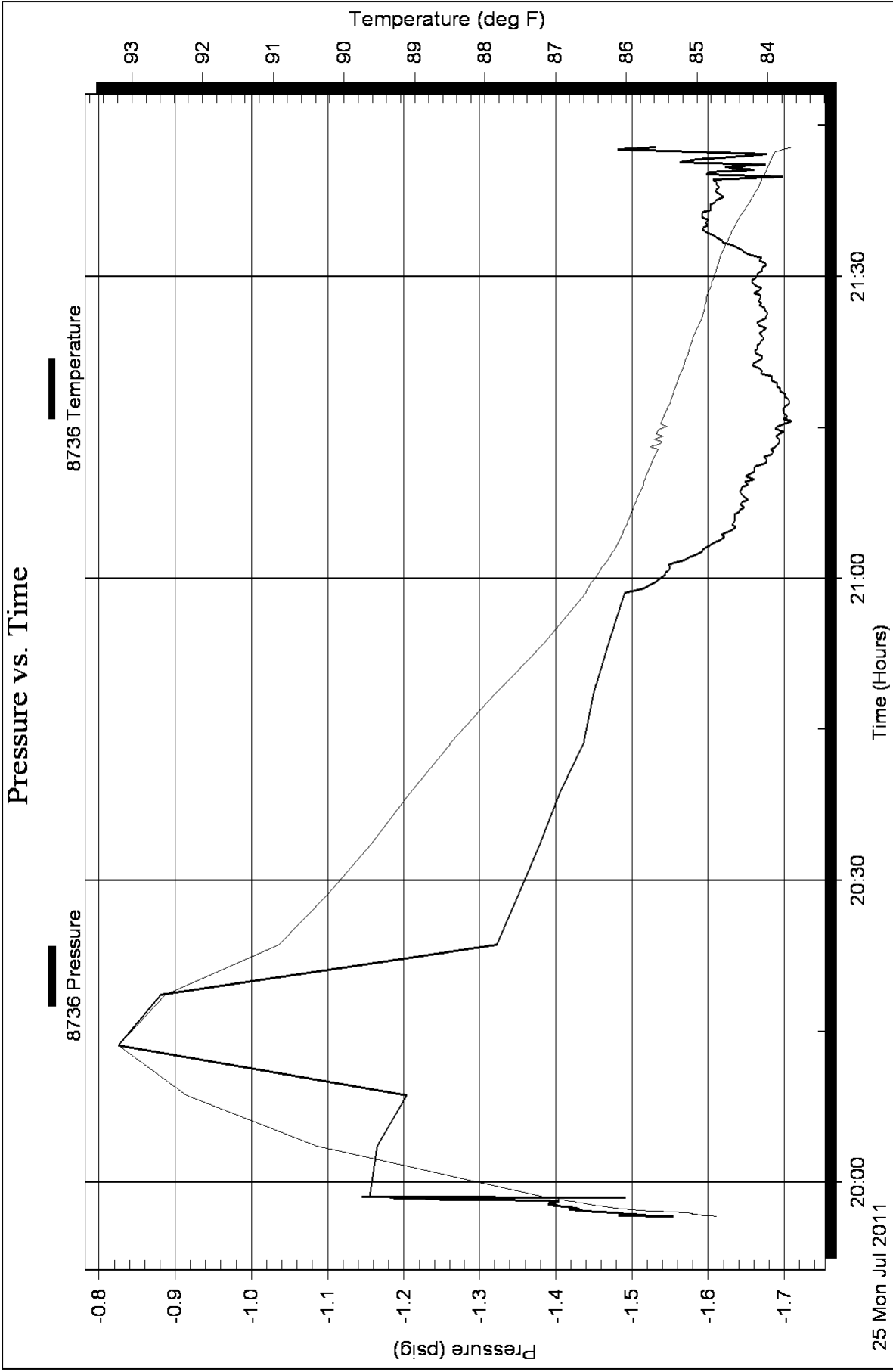
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

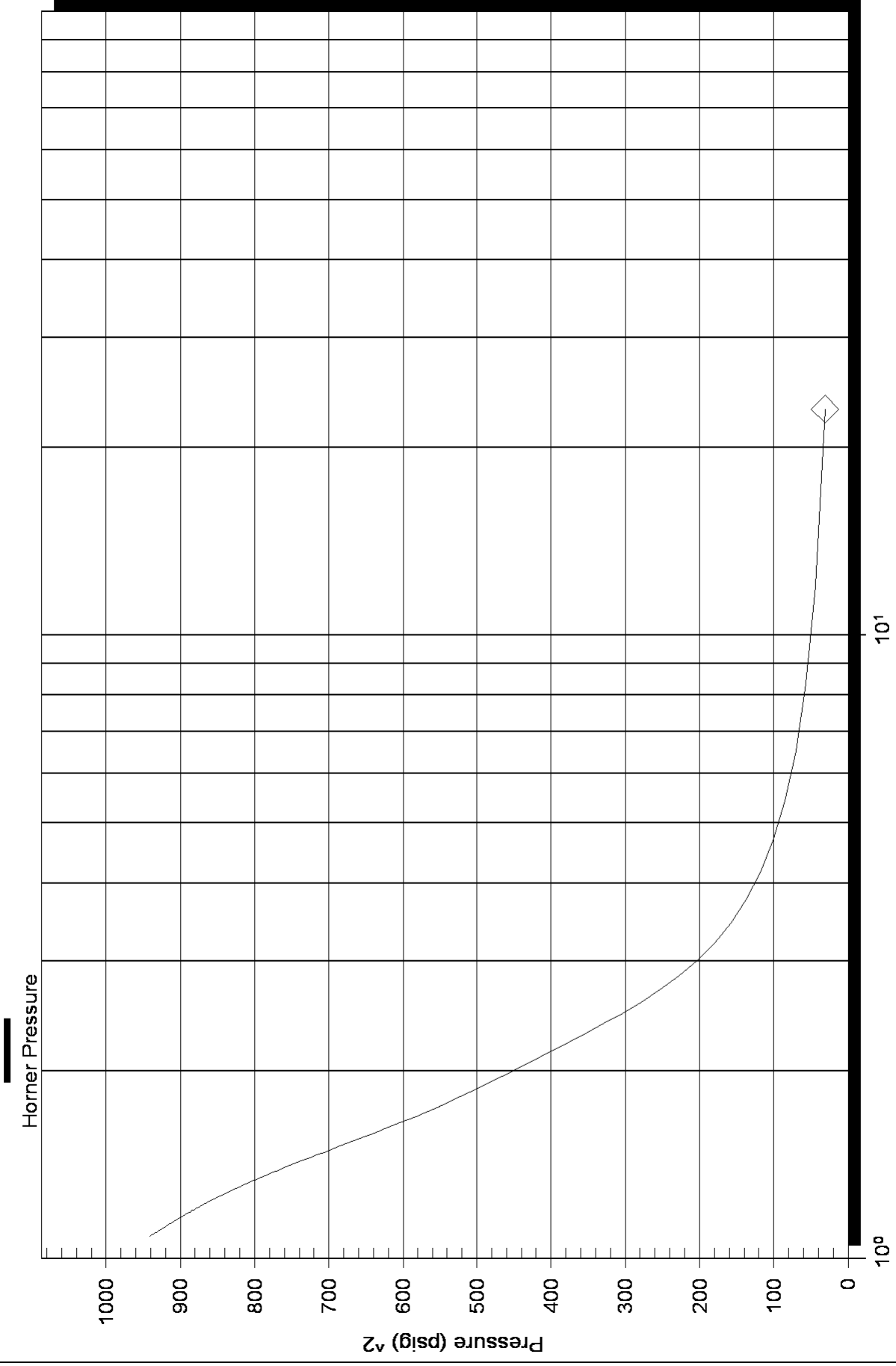
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00



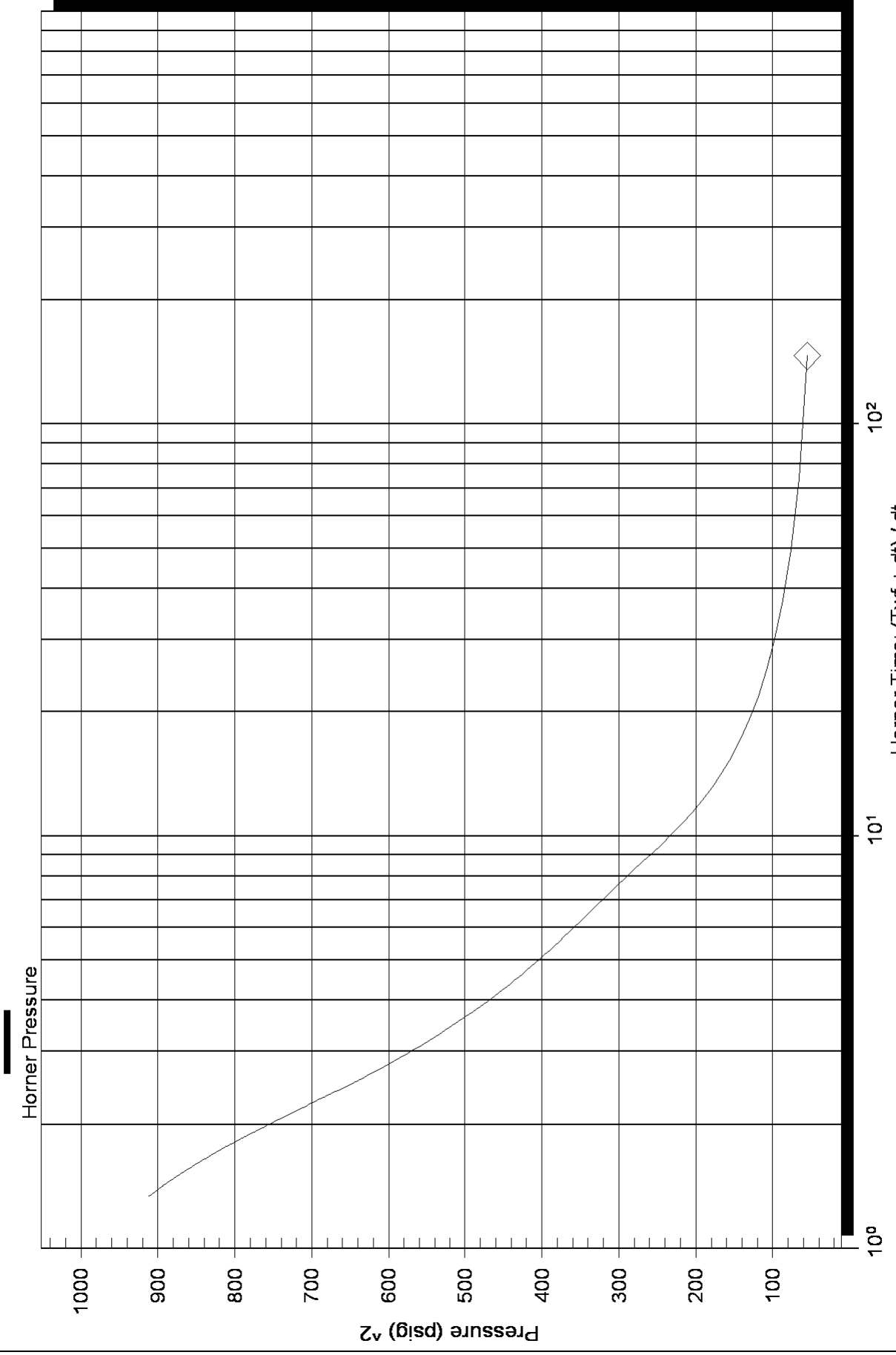




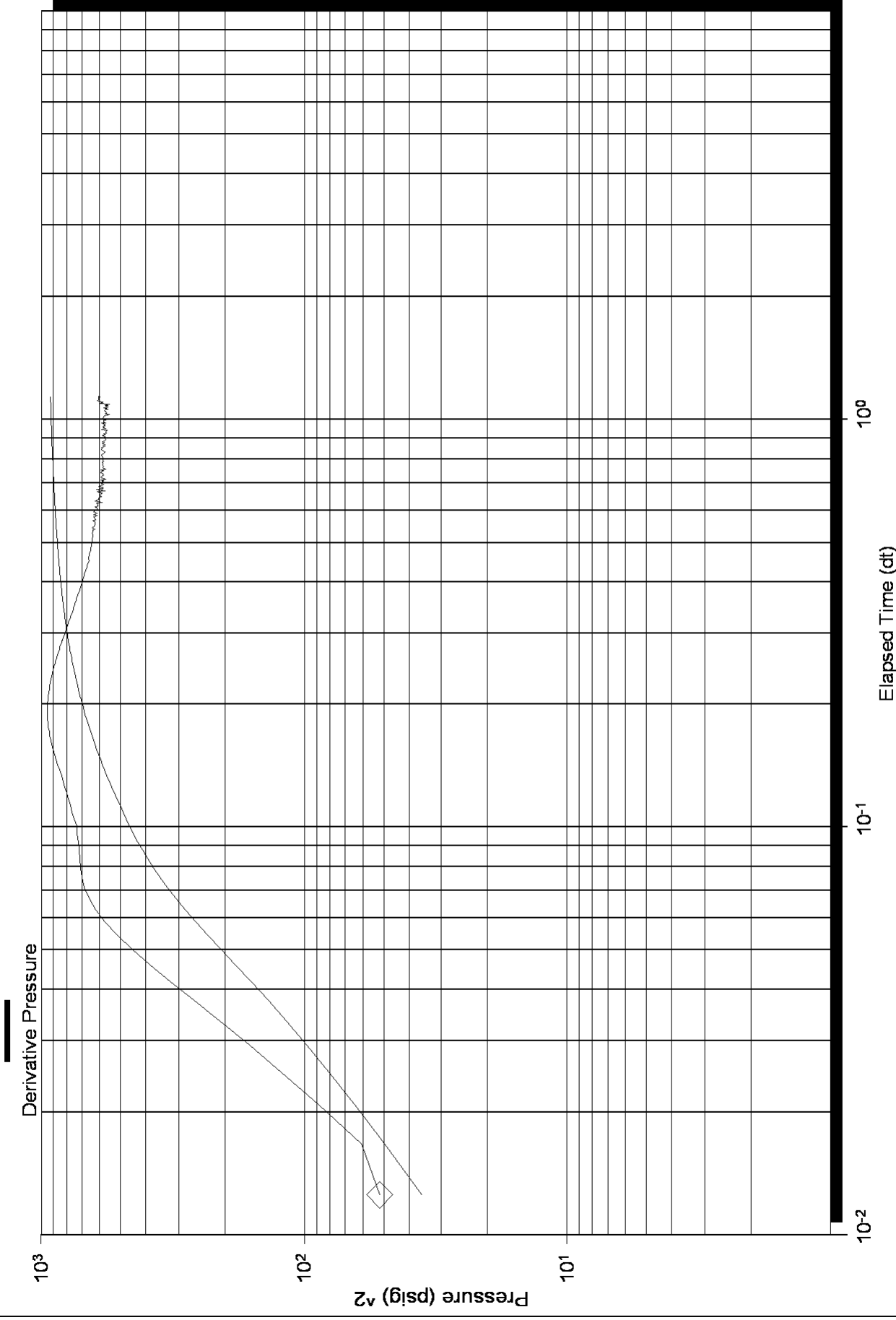
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

