



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc,**

1515 Wynkoop St, Ste 700
Denver CO, 80202

ATTN: Clayton Camozzi

21-15S-16W

Scurlock #1-21

Start Date: 2011.03.29 @ 01:45:15

End Date: 2011.03.29 @ 10:40:45

Job Ticket #: 42806 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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DST#: 2

Test Start: 2011.03.29 @ 01:45:15

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:15

Time Test Ended: 10:40:45

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: 3270.00 ft (KB) To 3312.00 ft (KB) (TVD)

Reference Elevations: 1870.00 ft (KB)

Total Depth: 3312.00 ft (KB) (TVD)

1862.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 84.21 psig @ 3271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.29

End Date:

2011.03.29

Last Calib.:

2011.03.29

Start Time: 01:45:20

End Time:

10:40:45

Time On Btm:

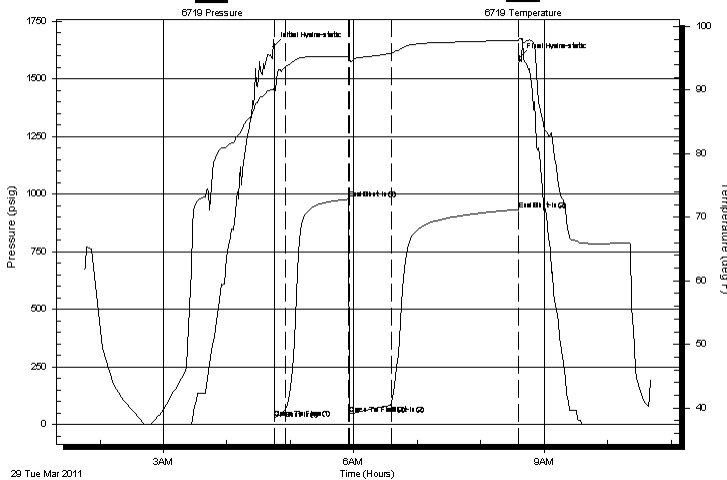
2011.03.29 @ 04:44:15

Time Off Btm:

2011.03.29 @ 08:36:45

TEST COMMENT: 10- IF- B.O.B- 4 1/2 Min.
60- IS- No Blow back
40- FF- B.O.B- Immediatly
120- FS- 1 1/4" blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.27	90.17	Initial Hydro-static
1	26.78	89.93	Open To Flow (1)
11	60.01	93.68	Shut-In(1)
71	977.54	95.31	End Shut-In(1)
72	46.50	94.87	Open To Flow (2)
111	84.21	95.78	Shut-In(2)
231	933.15	97.86	End Shut-In(2)
233	1592.89	98.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 30%G 30%O 40%M	1.68
15.00	SGMCO 10%G 40%M 50%O	0.21
15.00	SGO 10%G 90%O	0.21
0.00	420ft GIP	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: 3258.00 ft	Diameter: 3.80 inches	Volume: 45.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 47000.00 lb
			<u>Total Volume: 45.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3270.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	5.00			3241.00	
Recorder	0.00	8369	Fluid	3241.00	
Shut In Tool	5.00			3246.00	
Sampler	3.00			3249.00	
Hydraulic tool	5.00			3254.00	
Jars	5.00			3259.00	
Safety Joint	2.00			3261.00	
Packer	5.00			3266.00	34.00 Bottom Of Top Packer
Packer	4.00			3270.00	
Stubb	1.00			3271.00	
Recorder	0.00	6719	Inside	3271.00	
Recorder	0.00	8319	Inside	3271.00	
Perforations	4.00			3275.00	
Change Over Sub	1.00			3276.00	
Drill Pipe	32.00			3308.00	
Change Over Sub	1.00			3309.00	
Bullnose	3.00			3312.00	42.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

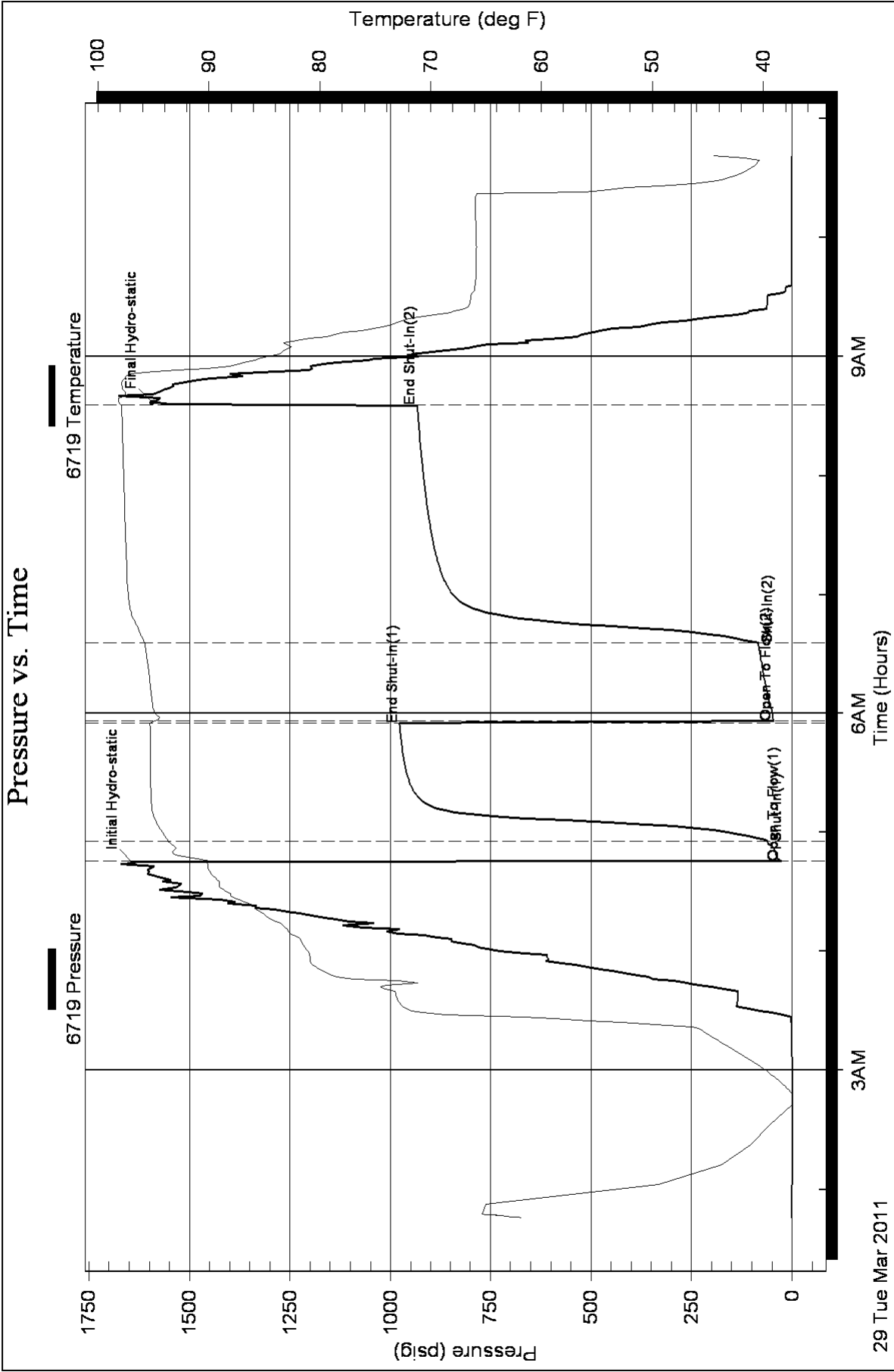
Recovery Information

Recovery Table

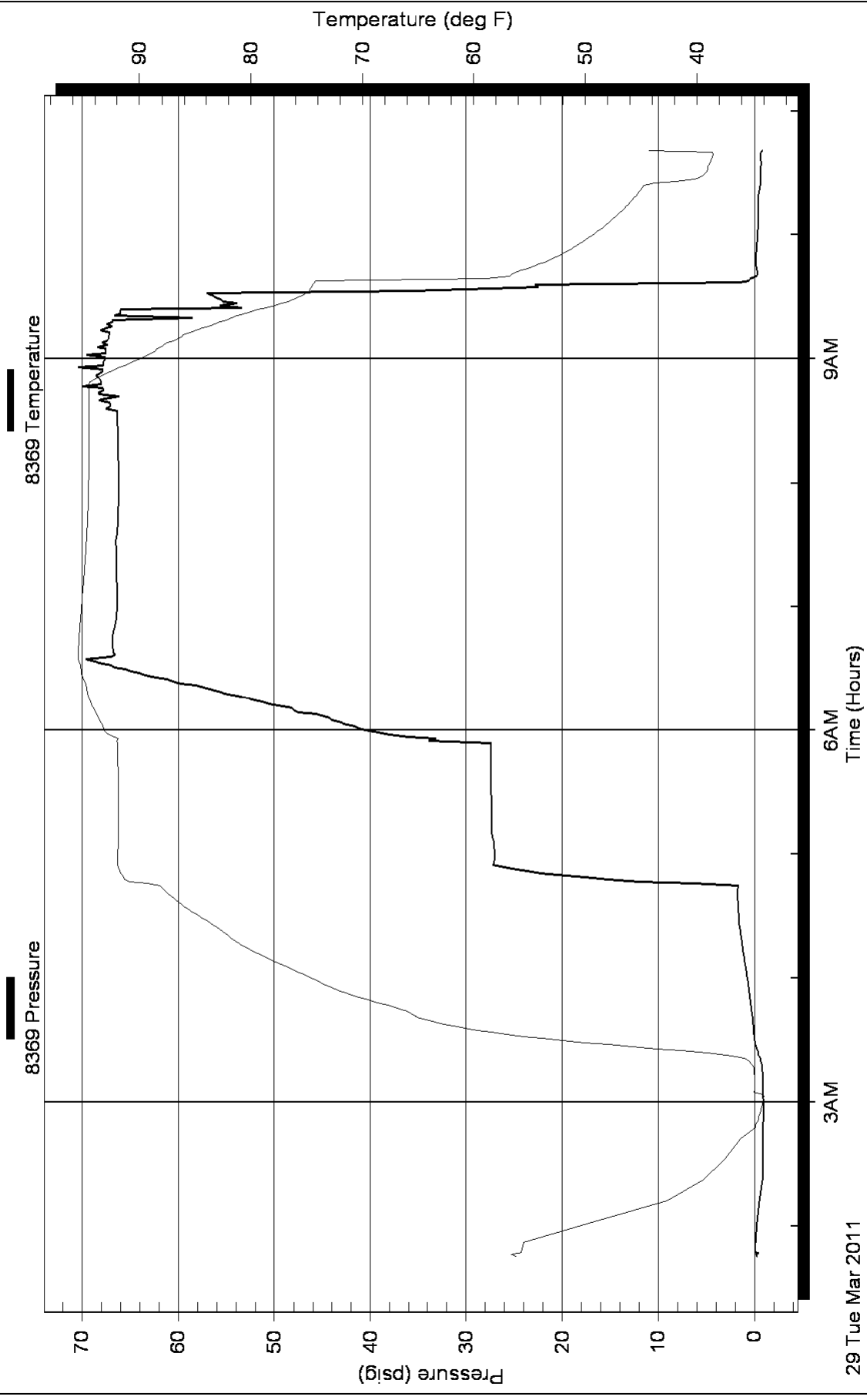
Length ft	Description	Volume bbl
120.00	GOCM 30%G 30%O 40%M	1.683
15.00	SGMCO 10%G 40%M 50%O	0.210
15.00	SGO 10%G 90%O	0.210
0.00	420ft GIP	0.000

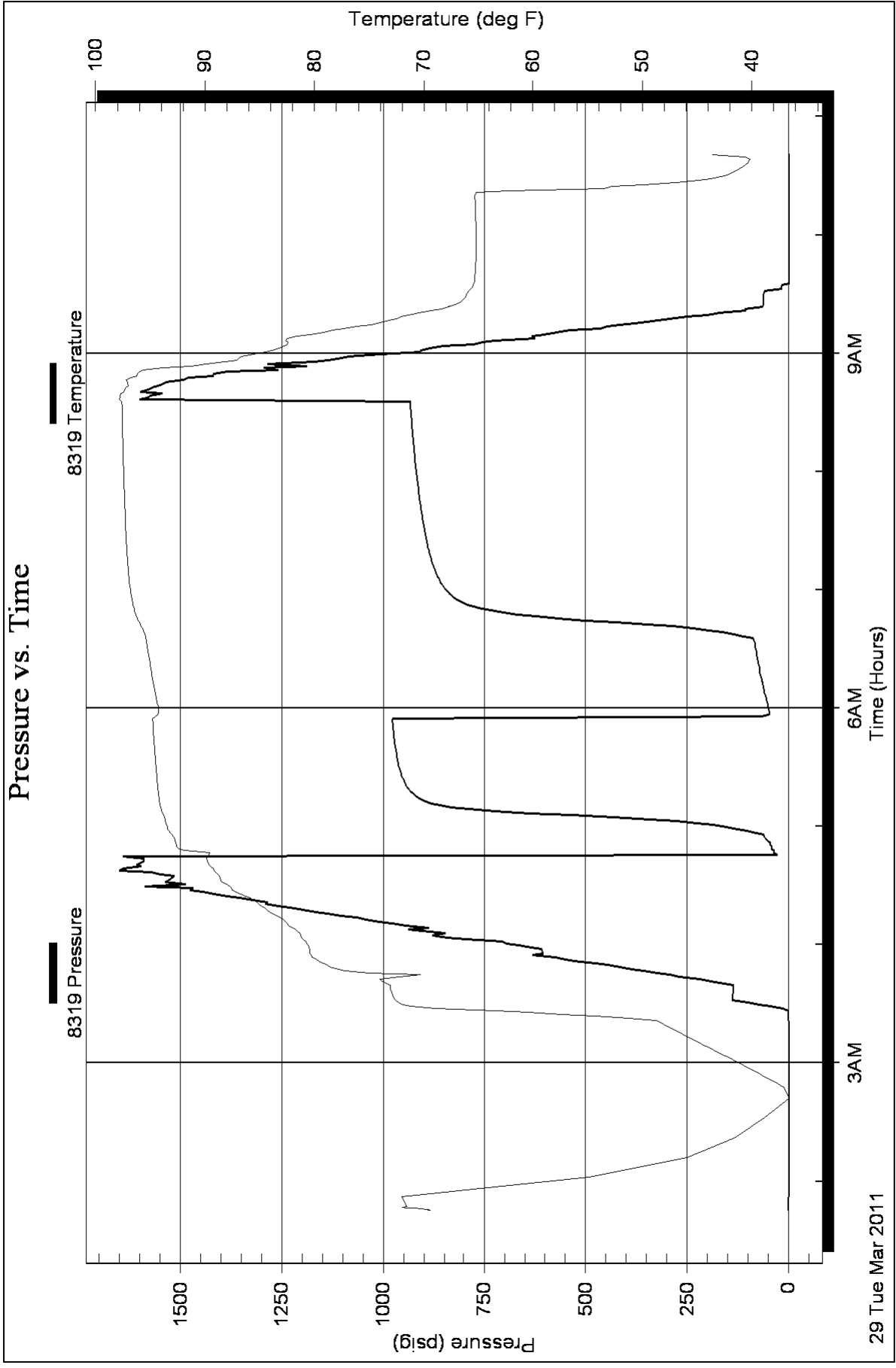
Total Length: 150.00 ft Total Volume: 2.103 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Sampler Data
 500ml Mud 2500ml Oil 1000ml Gas 360psi

Pressure vs. Time

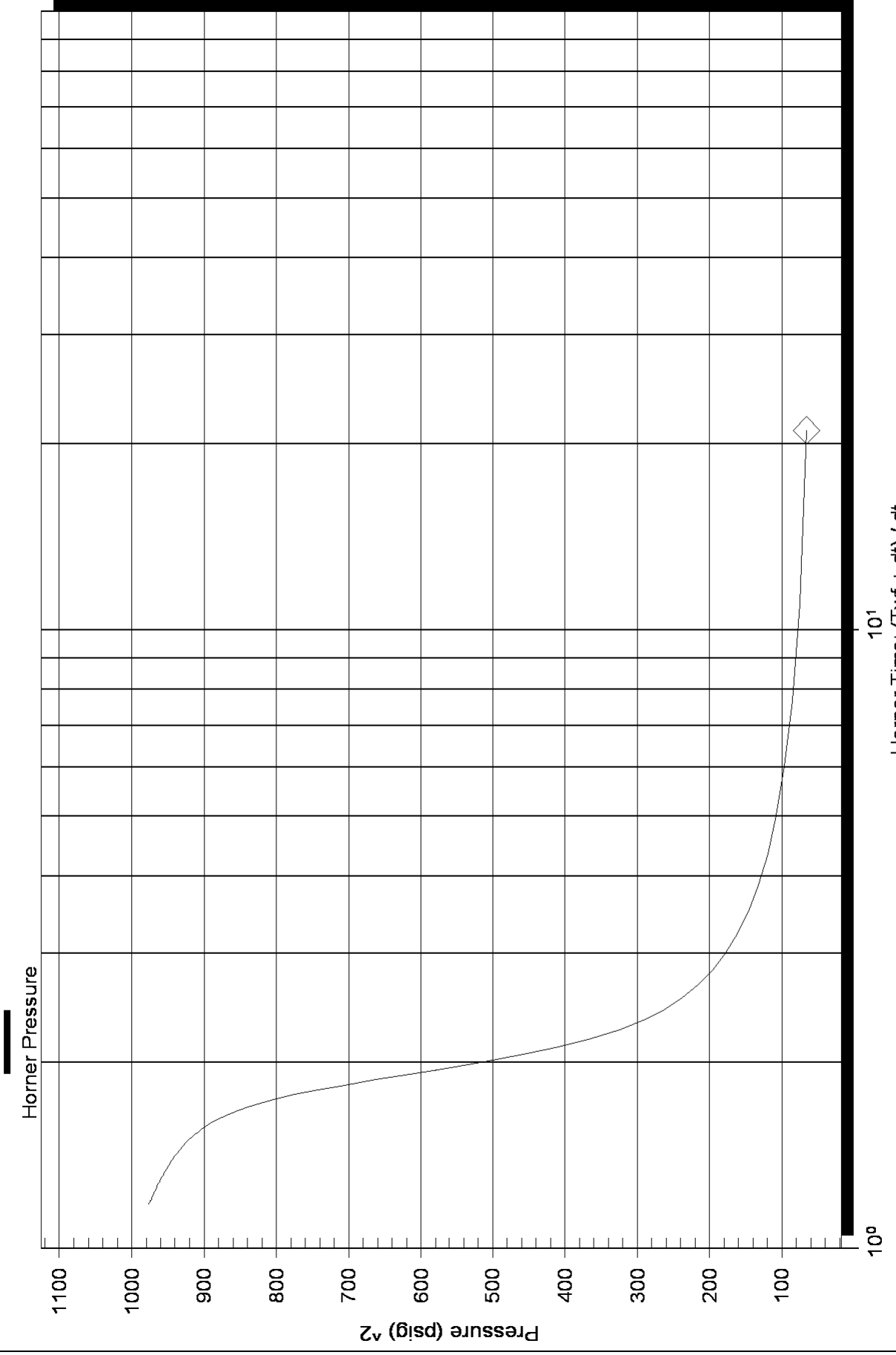


Pressure vs. Time

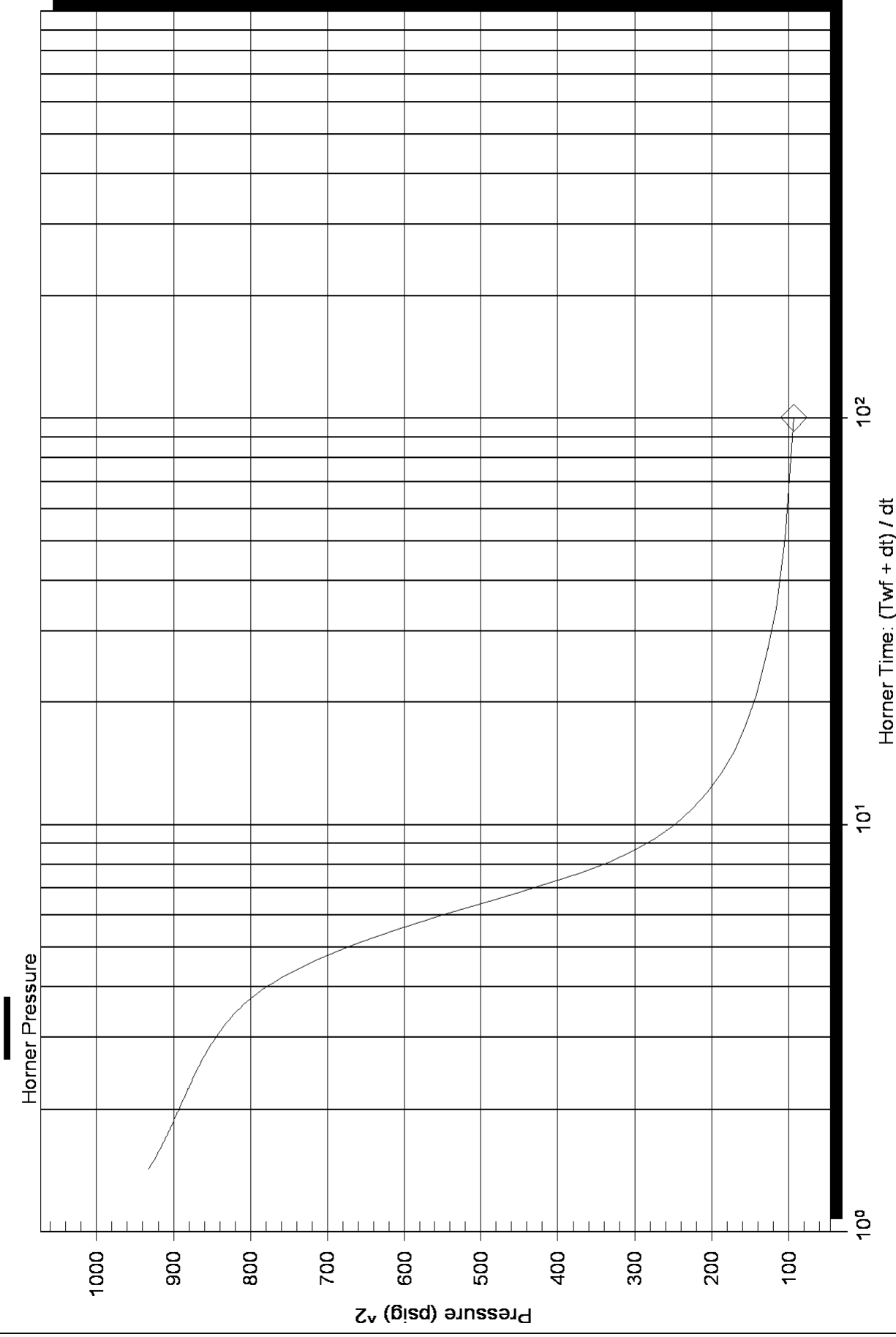




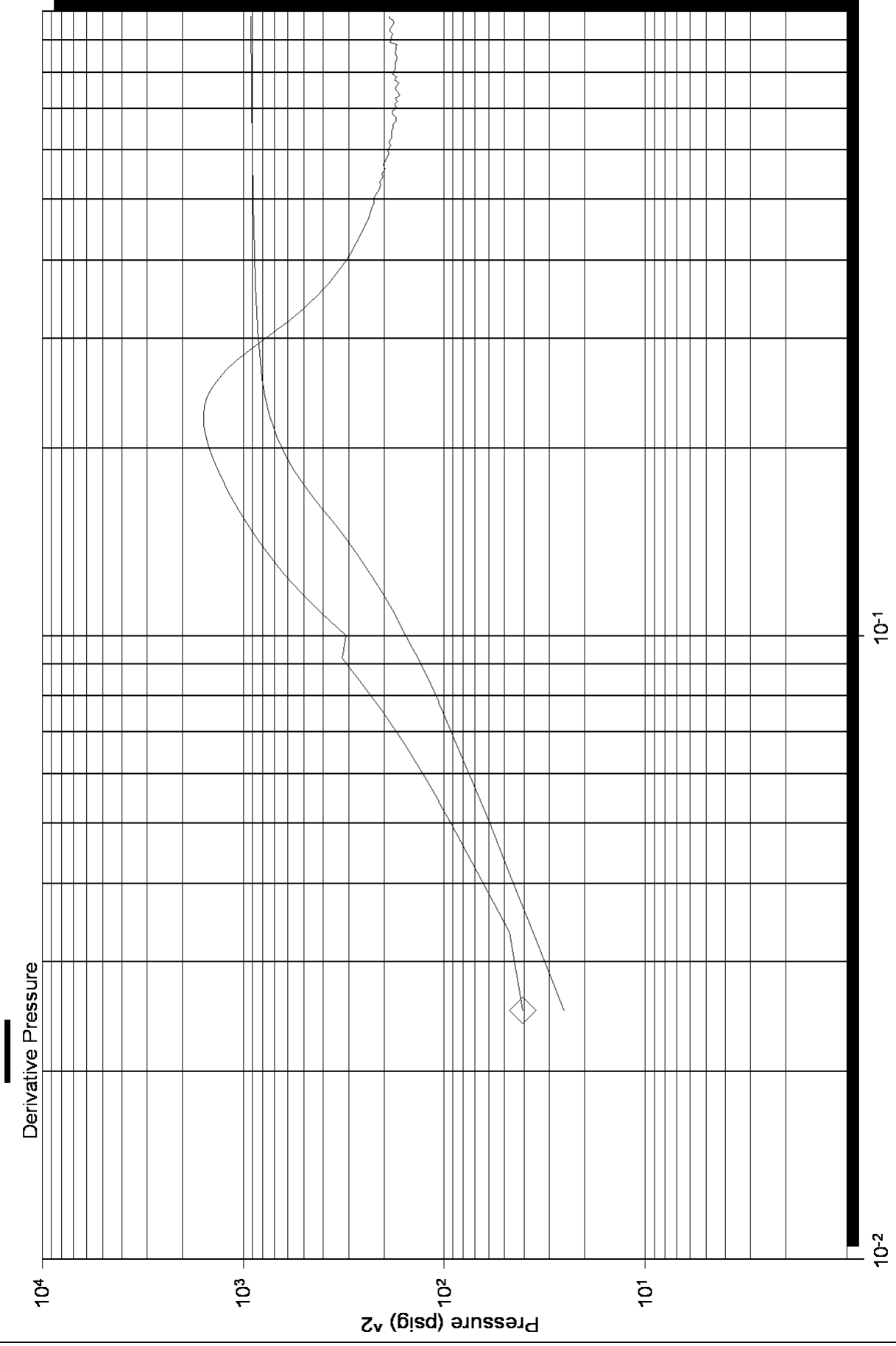
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

