



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. Associates, Inc**

1515 Wynkoop Ste 700  
Denver CO 80202

ATTN: Clayton Camozzi

**20-12-16, Ellis, Ks**

**Chrisler ET AL 1-20**

Start Date: 2011.08.14 @ 01:28:30

End Date: 2011.08.14 @ 09:25:30

Job Ticket #: 44288                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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Test Start: 2011.08.14 @ 01:28:30

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 03:29:00

Time Test Ended: 09:25:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 3216.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6753 Outside**

Press @ Run Depth: 62.85 psig @ 3221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.14

End Date:

2011.08.14

Last Calib.:

2011.08.14

Start Time:

01:28:35

End Time:

09:25:29

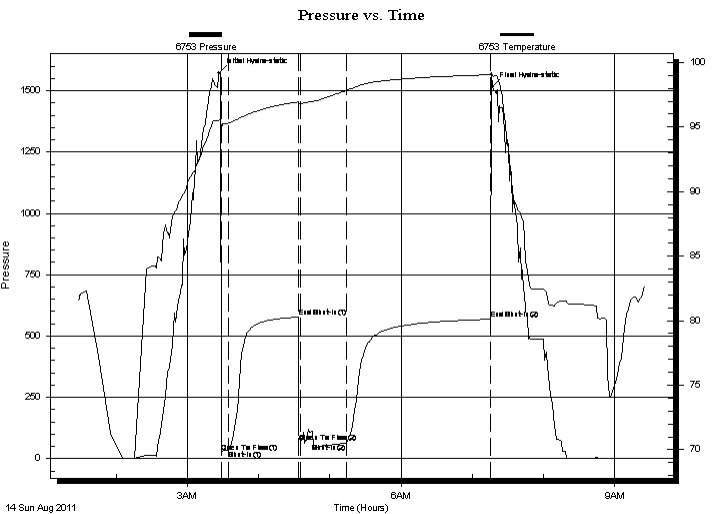
Time On Btm:

2011.08.14 @ 03:27:00

Time Off Btm:

2011.08.14 @ 07:17:00

**TEST COMMENT:** 5min IF- 41/2in blow  
60min ISI-No blow  
40min FF-BOB in 5min  
120min FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.69	95.59	Initial Hydro-static
2	25.72	94.87	Open To Flow (1)
8	33.27	95.31	Shut-In(1)
67	577.43	96.96	End Shut-In(1)
68	67.52	96.80	Open To Flow (2)
107	62.85	97.84	Shut-In(2)
228	567.99	99.07	End Shut-In(2)
230	1517.08	98.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	VGSWMCO 50%G 5%W 5%M 40%O	0.99
30.00	GMCO 10%G 30%M 60%O	0.42
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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Test Start: 2011.08.14 @ 01:28:30

## Tool Information

Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3216.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	88.00 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	1.00			3182.00	
Drill Pipe	5.00			3187.00	
Recorder	0.00	8369	Fluid	3187.00	
Shut In Tool	5.00			3192.00	
Sampler	3.00			3195.00	
Hydraulic tool	5.00			3200.00	
Jars	5.00			3205.00	
Safety Joint	2.00			3207.00	
Packer	4.00			3211.00	35.00 Bottom Of Top Packer
Packer	5.00			3216.00	
Stubb	1.00			3217.00	
Perforations	4.00			3221.00	
Recorder	0.00	8319	Inside	3221.00	
Recorder	0.00	6753	Outside	3221.00	
Change Over Sub	1.00			3222.00	
Drill Pipe	31.00			3253.00	
Change Over Sub	1.00			3254.00	
Perforations	12.00			3266.00	
Bullnose	3.00			3269.00	53.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>88.00</b>				



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**FLUID SUMMARY**

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Job Ticket: 44288

**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2011.08.14 @ 01:28:30

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

76000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	VGSWMCO 50%G 5%W 5%M 40%O	0.989
30.00	GMCO 10%G 30%M 60%O	0.421
0.00	420ft GIP	0.000

Total Length: 120.00 ft      Total Volume: 1.410 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

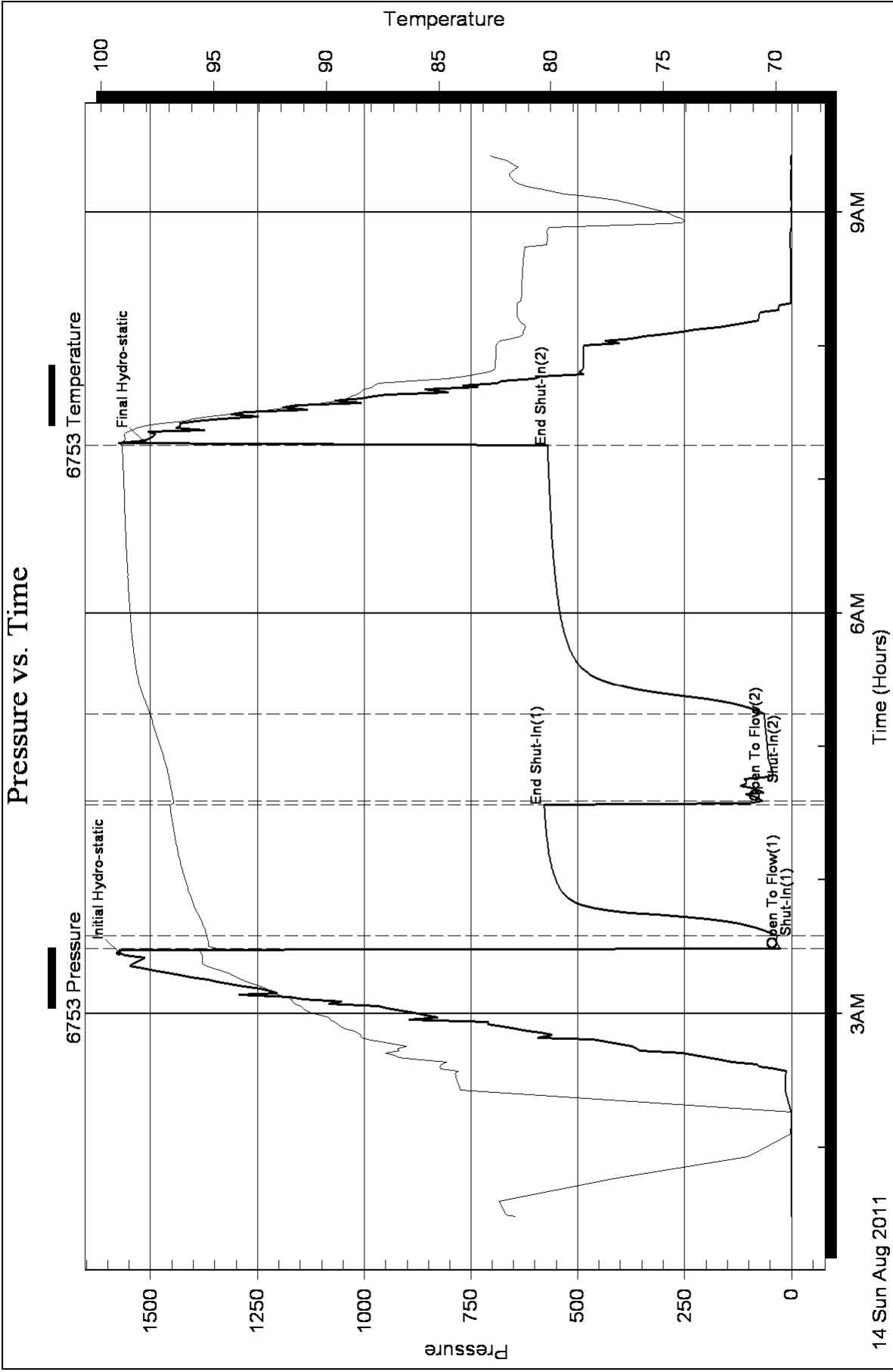
Serial #:

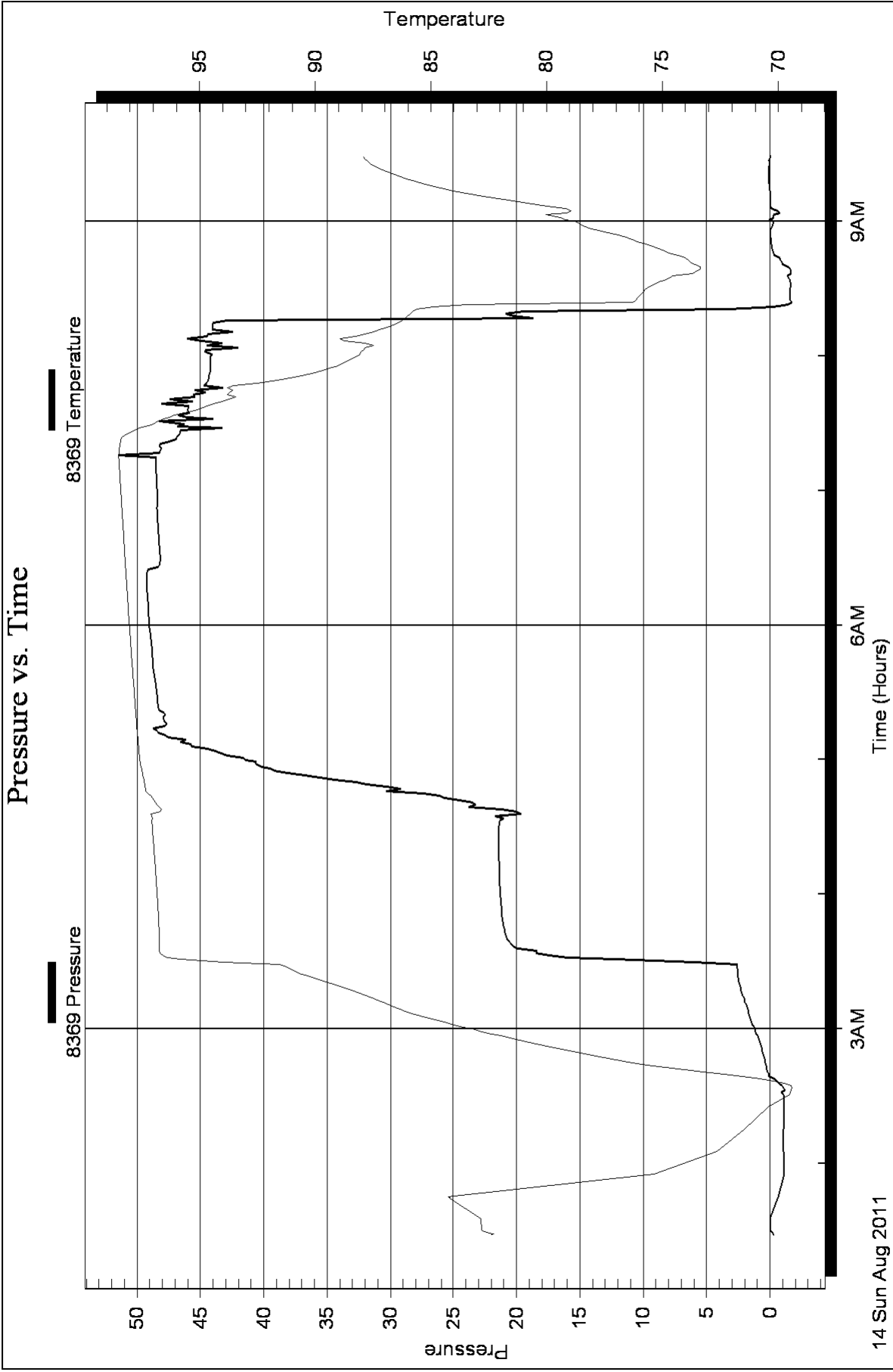
Laboratory Name:

Laboratory Location:

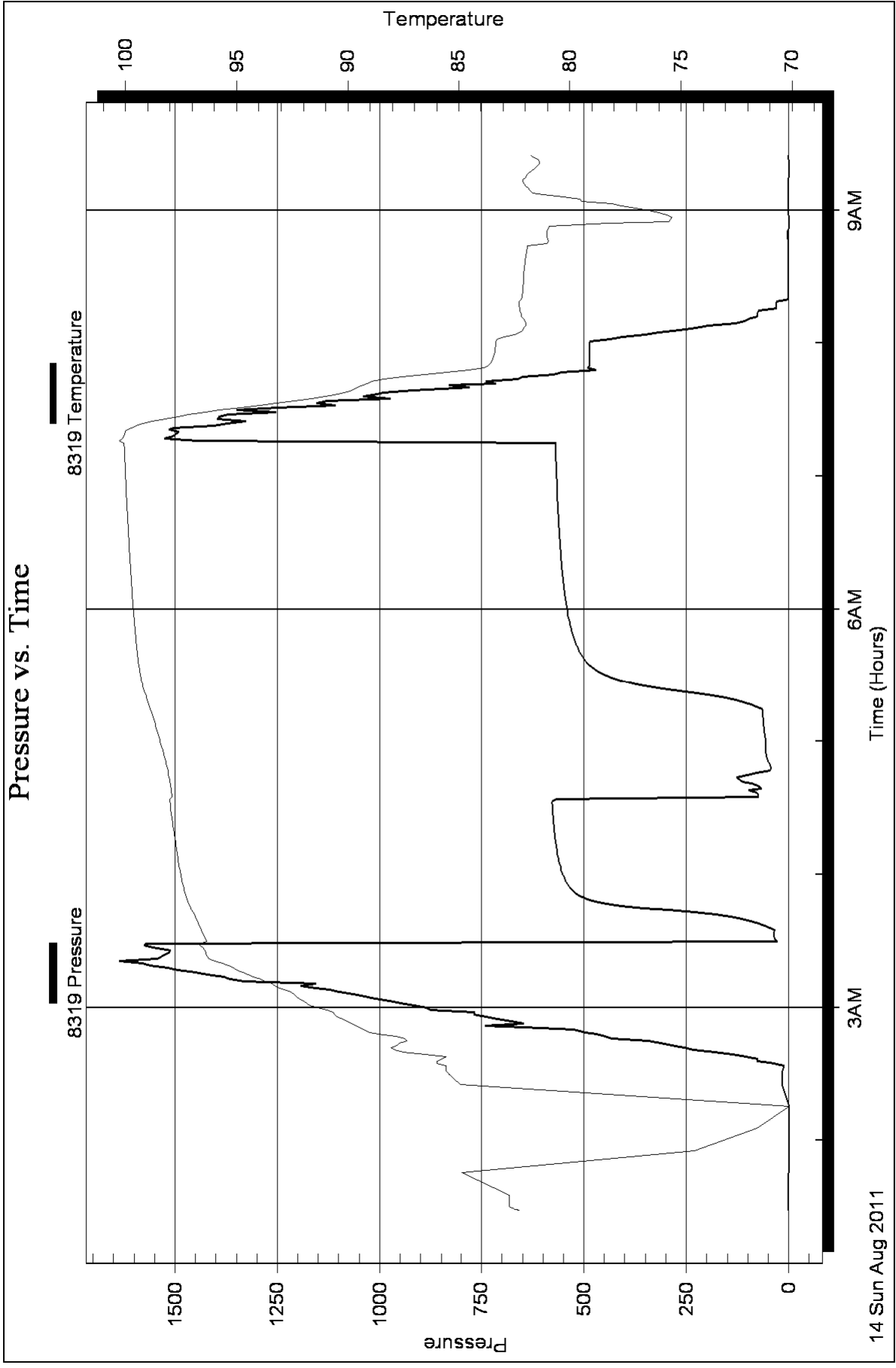
Recovery Comments: RW .08 @ 90

Sampler Data 2500mlO 200mlM 200mlW 1100mlG PSI 400



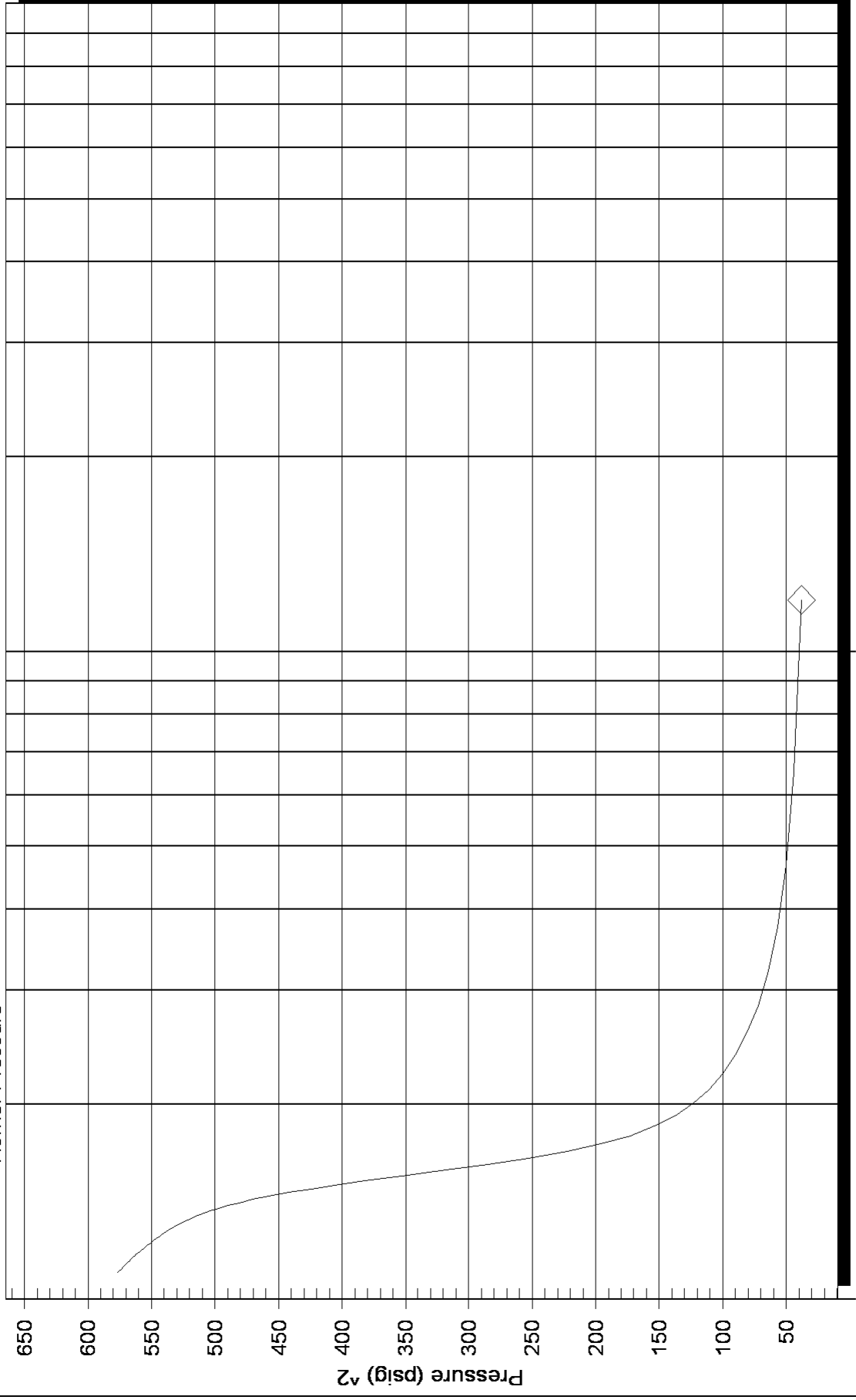






### Homer Plot

Horner Pressure



Horner Time:  $(T_{wf} + dt) / dt$

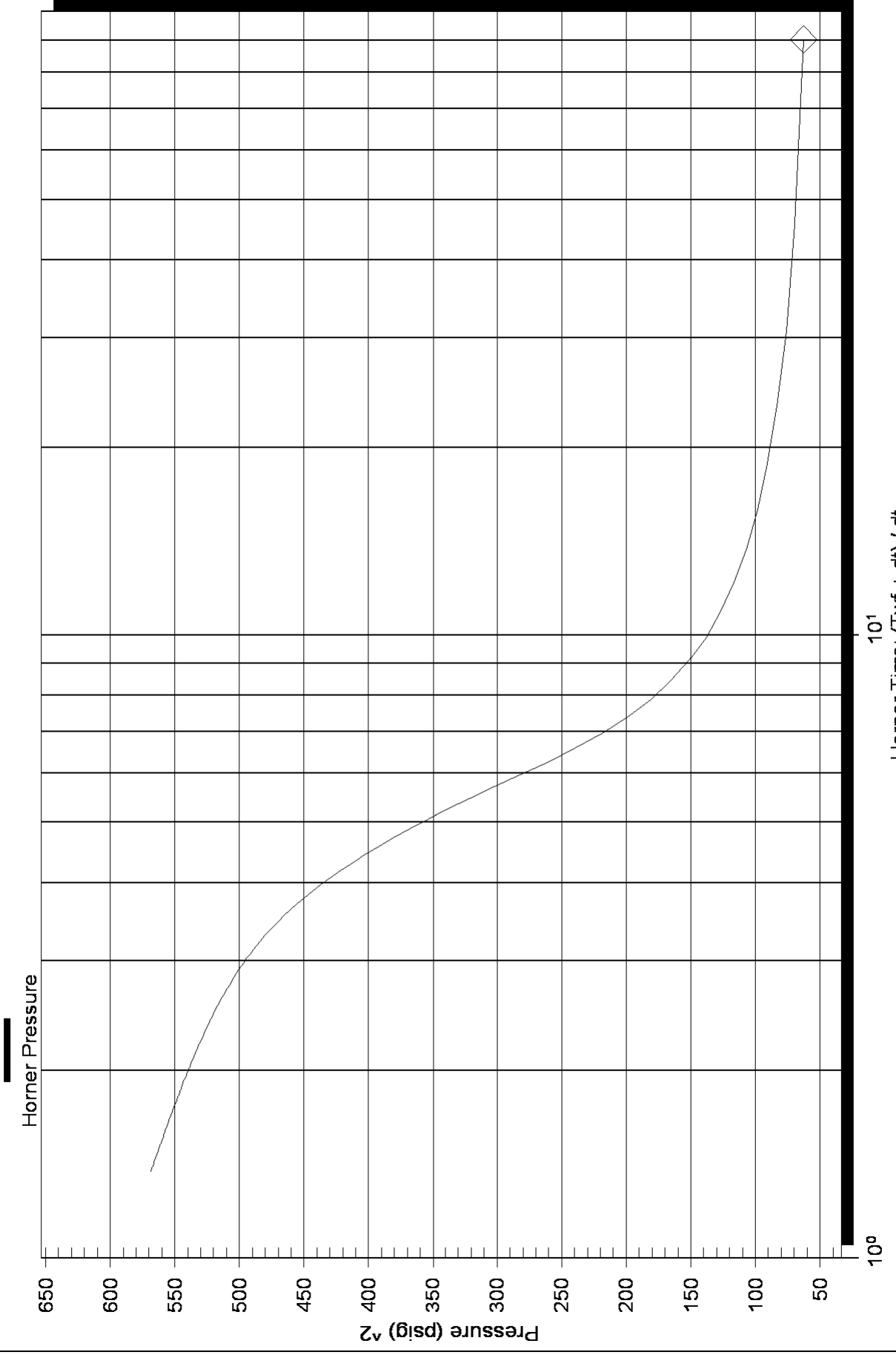
Slope (m) : kpa/log cycle

P\* :

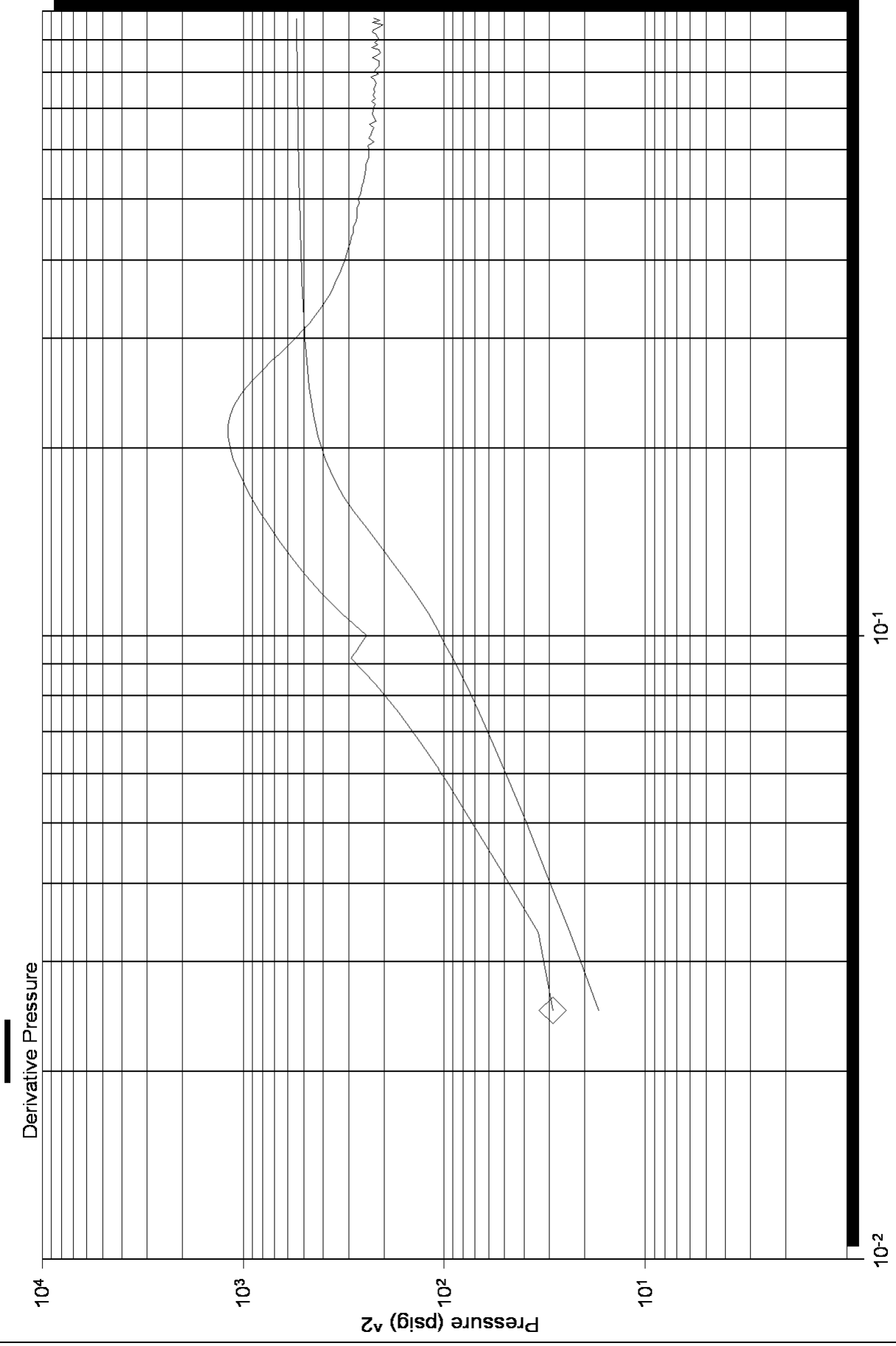
Serial Number: 6753 (Outside)

Flow Cycle: 1

### Homer Plot



# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative

