



## DRILL STEM TEST REPORT

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

1515 Wynkoop Ste 700  
Denver Co 80202

ATTN: Clayton Camozzi

**11-12-17, Ellis, Ks**

**Rohleder Trust #1-11**

Start Date: 2011.08.23 @ 13:05:46

End Date: 2011.08.23 @ 19:53:46

Job Ticket #: 44296                      DST #: 4

Trilobite Testing, Inc  
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TESTING, INC.**

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Test Start: 2011.08.23 @ 13:05:46

## GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:46

Time Test Ended: 19:53:46

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 3444.00 ft (KB) To 3466.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3466.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6753 Inside**

Press @ Run Depth: 92.39 psig @ 3445.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.23

End Date:

2011.08.23

Last Calib.:

2011.08.23

Start Time: 13:05:51

End Time:

19:53:45

Time On Btm:

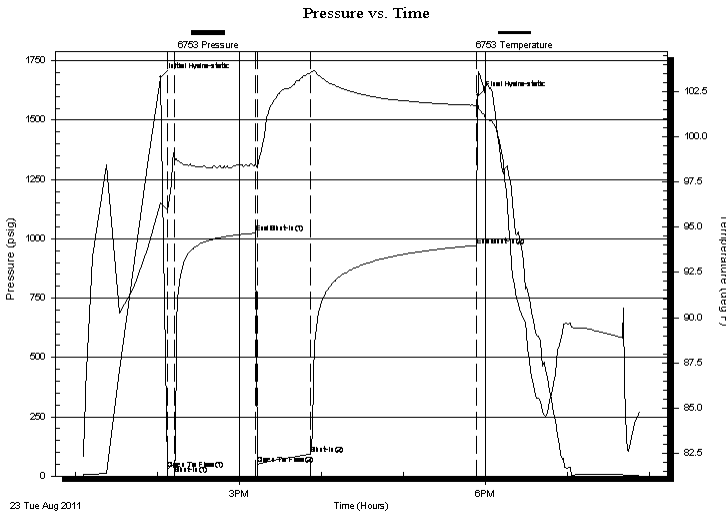
2011.08.23 @ 14:02:46

Time Off Btm:

2011.08.23 @ 17:54:46

**TEST COMMENT:** 5min IF-2 1/2in blow  
60min ISI-No blow  
40min FF-8in blow  
120min FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.92	96.35	Initial Hydro-static
5	30.01	95.96	Open To Flow (1)
10	45.17	98.87	Shut-In(1)
70	1023.88	98.51	End Shut-In(1)
71	48.28	98.30	Open To Flow (2)
110	92.39	103.53	Shut-In(2)
231	971.67	101.73	End Shut-In(2)
232	1605.04	101.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	water	1.41
29.00	Oilspotted MCW 30%M 70%W	0.41
1.00	Free oil	0.01

## 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: 3385.00 ft	Diameter: 3.80 inches	Volume: 47.48 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: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3444.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3410.00	
Drill Pipe	5.00			3415.00	
Recorder	0.00	8369	Fluid	3415.00	
Shut In Tool	5.00			3420.00	
Sampler	2.00			3422.00	
Hydraulic tool	5.00			3427.00	
Jars	5.00			3432.00	
Safety Joint	2.00			3434.00	
Packer	5.00			3439.00	35.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Stubb	1.00			3445.00	
Recorder	0.00	6753	Inside	3445.00	
Recorder	0.00	8319	Outside	3445.00	
Perforations	18.00			3463.00	
Bullnose	3.00			3466.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



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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:

85000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	water	1.410
29.00	Oilspotted MCW 30%M 70%W	0.407
1.00	Free oil	0.014

Total Length: 150.00 ft      Total Volume: 1.831 bbl

Num Fluid Samples: 0

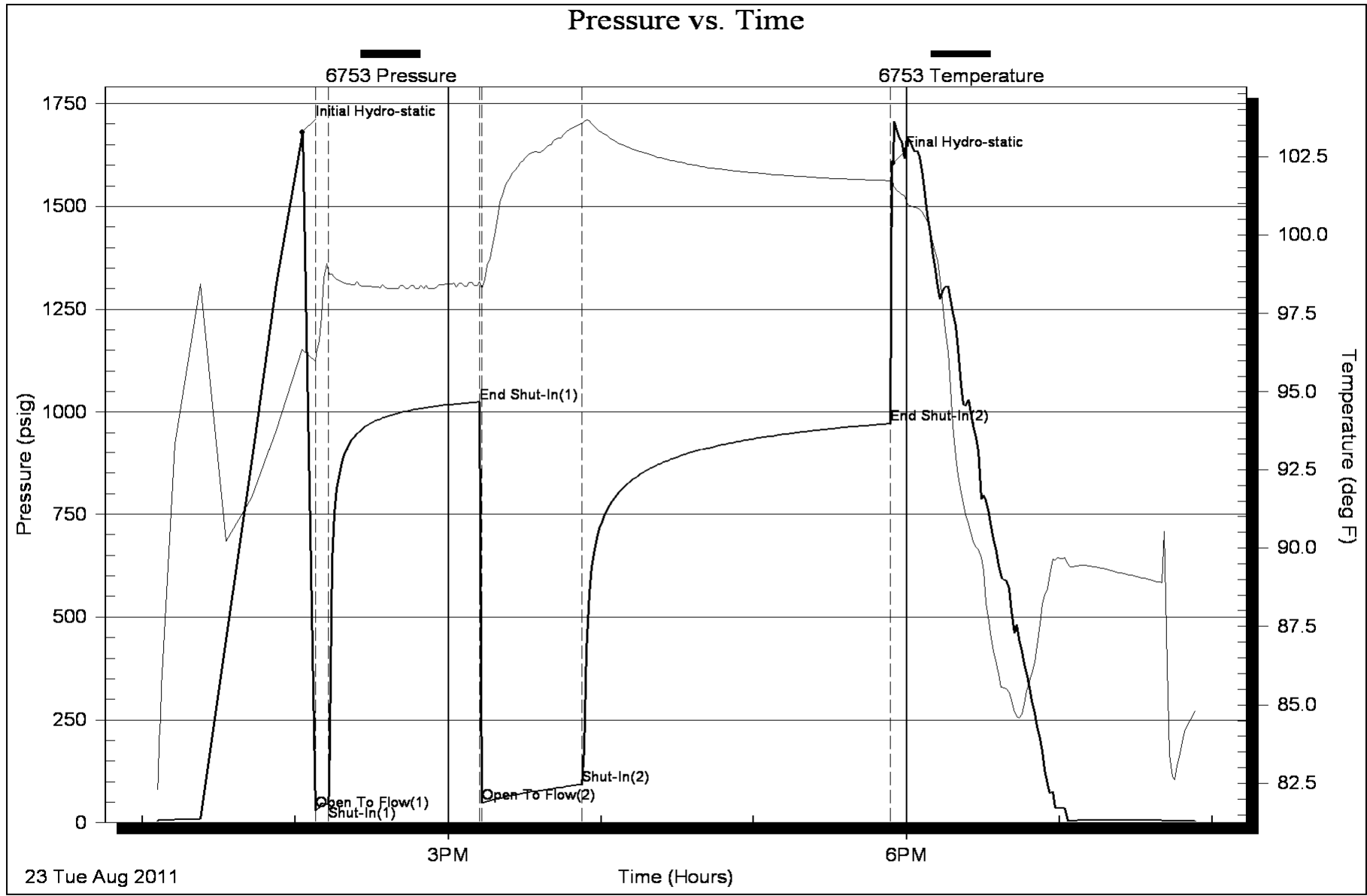
Num Gas Bombs: 0

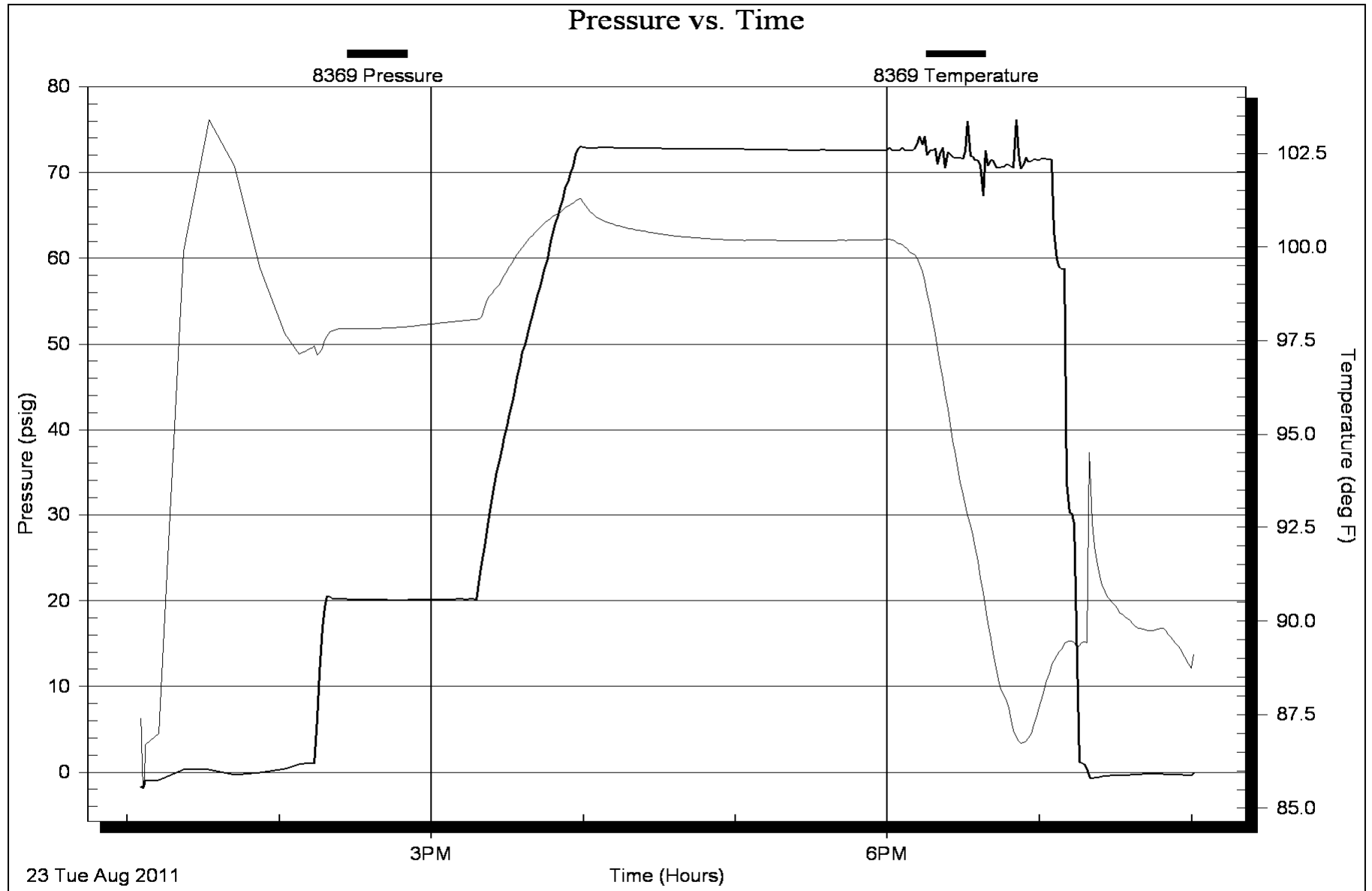
Serial #:

Laboratory Name:

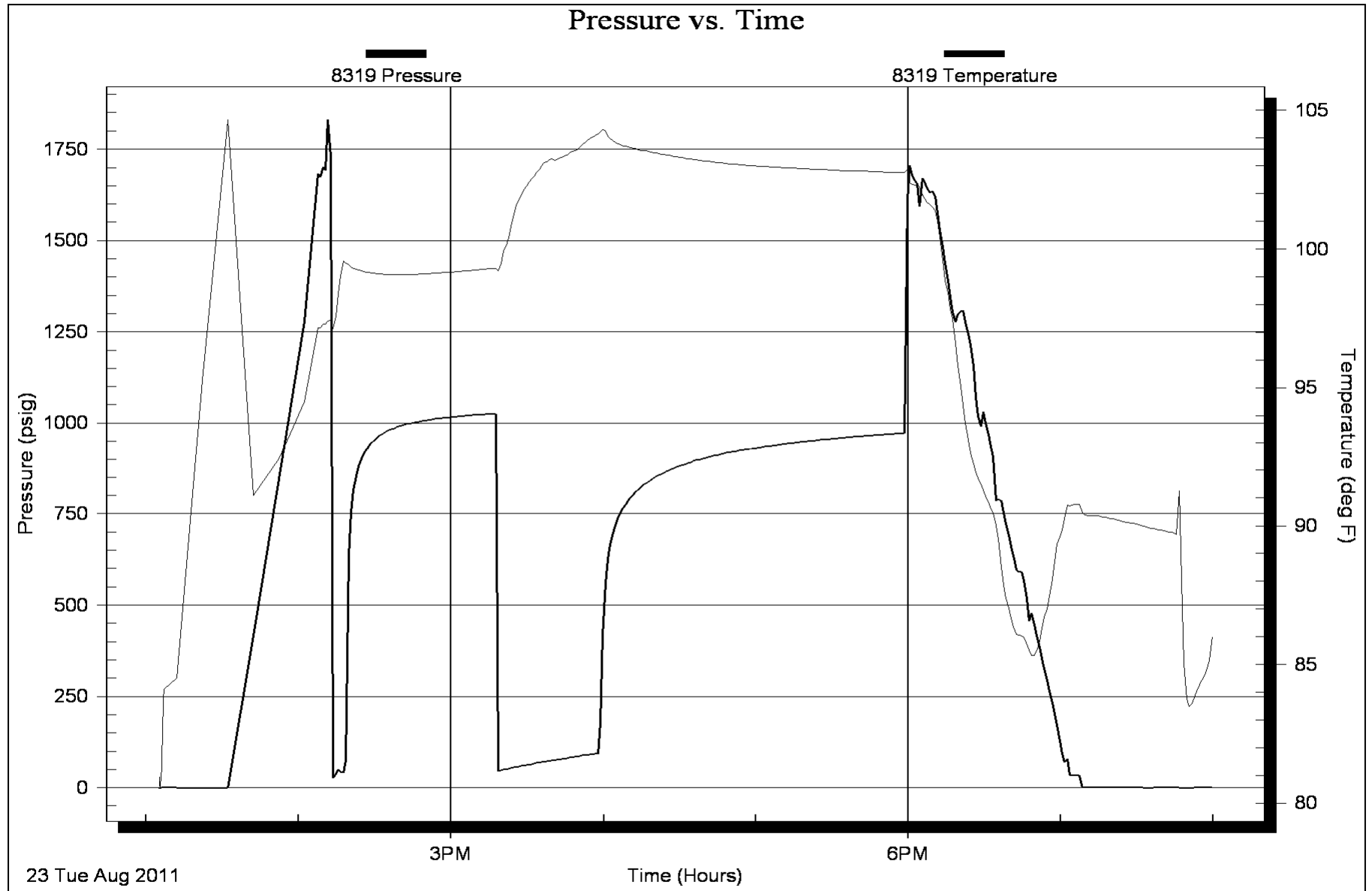
Laboratory Location:

Recovery Comments: Sampler Data 3000ml water 450PSI  
RW .06@110

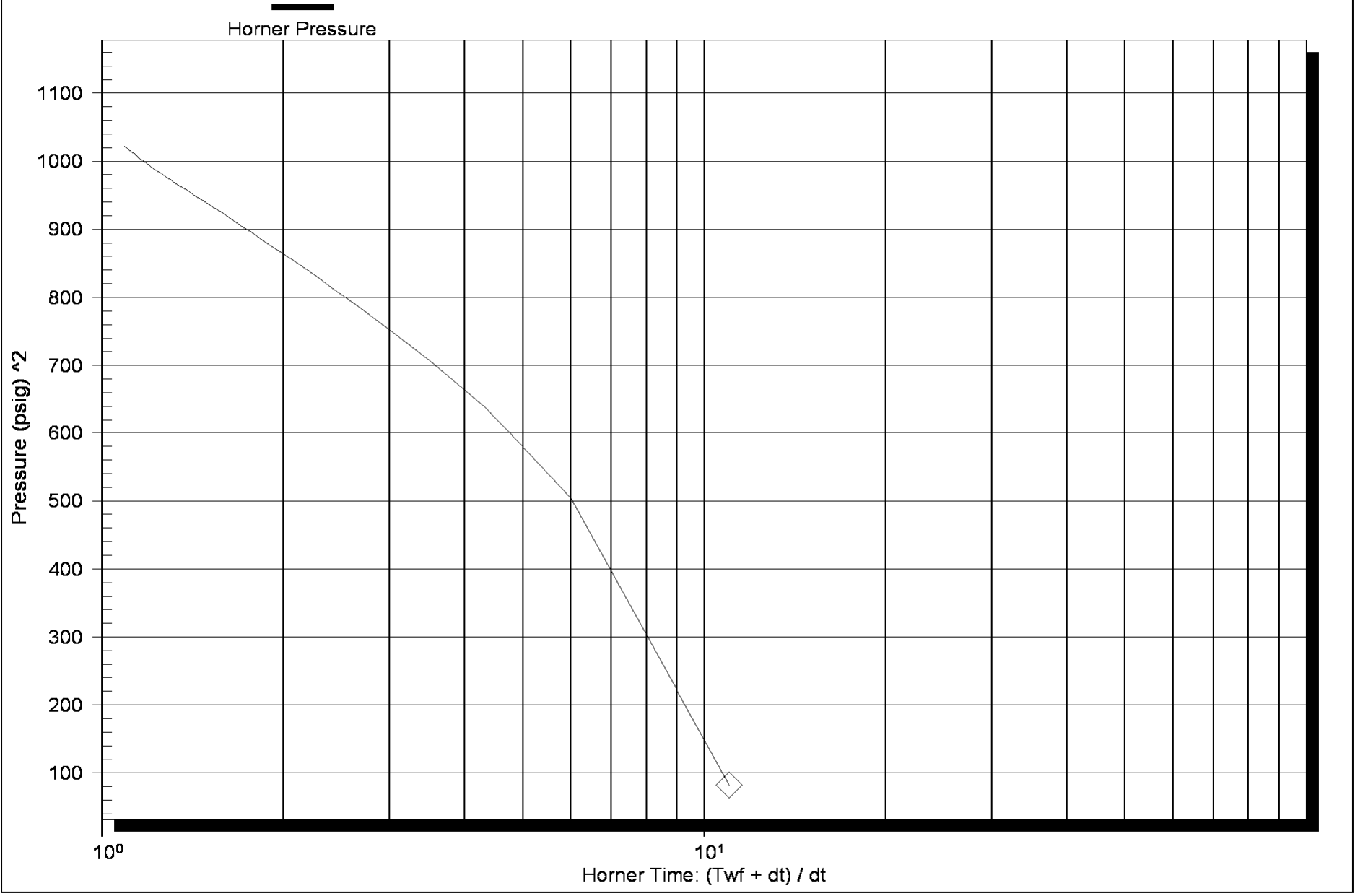




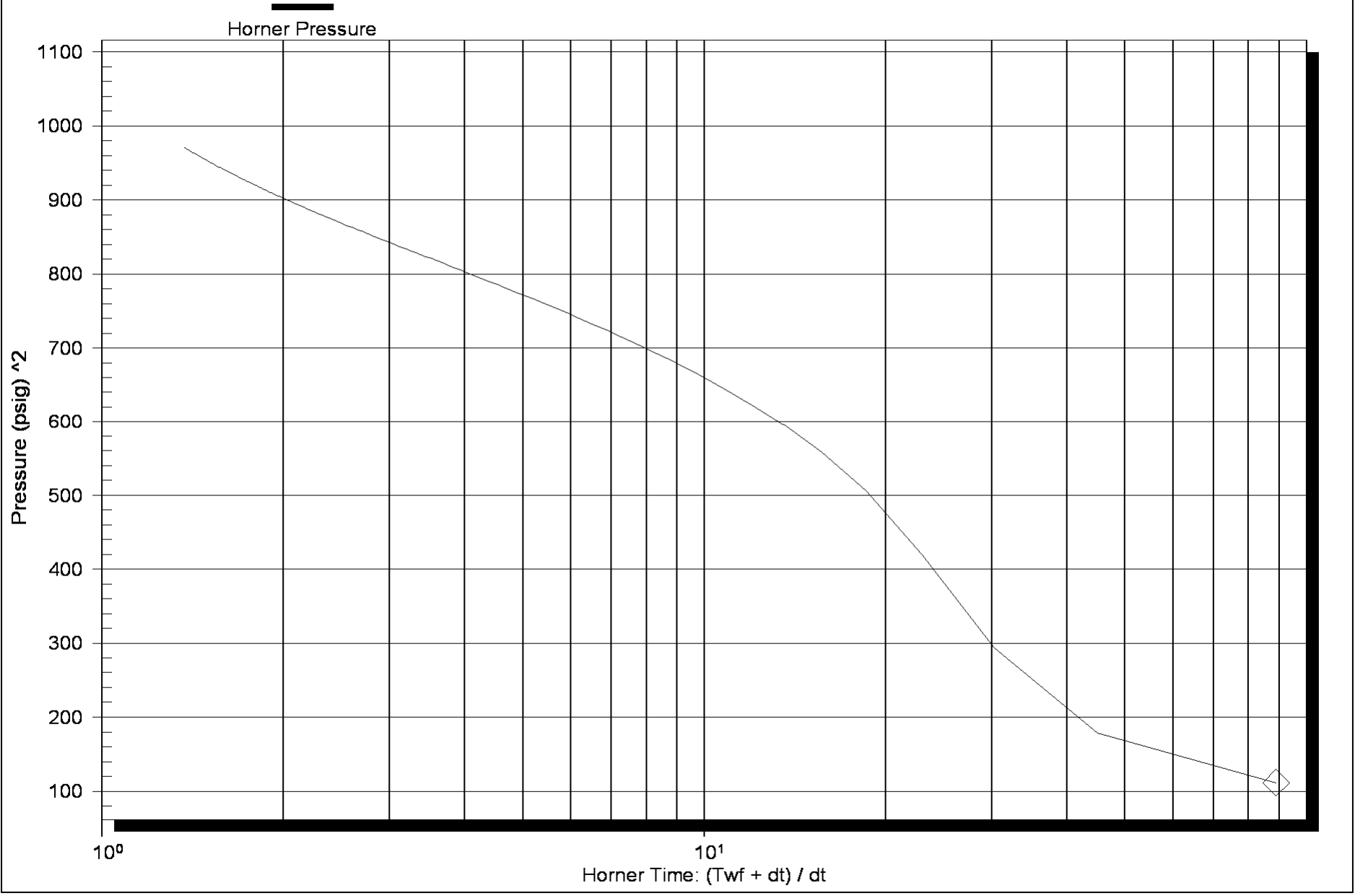




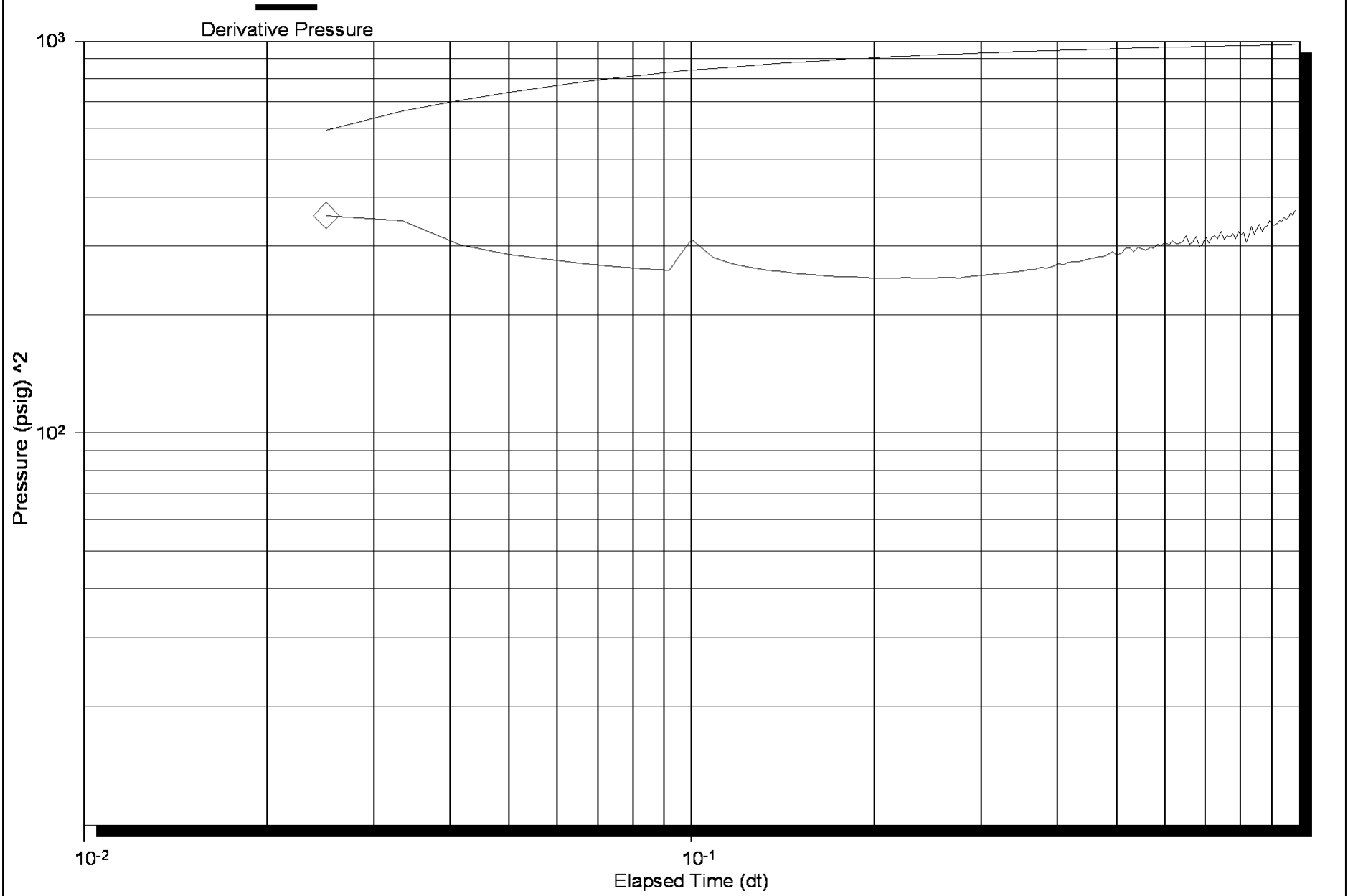
# Horner Plot



### Horner Plot



### Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative

