



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: 2011.08.13 @ 10:10:05

End Date: 2011.08.13 @ 17:20:35

Job Ticket #: 44287 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: 2011.08.13 @ 10:10:05

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:22:35

Time Test Ended: 17:20:35

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3155.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 133.53 psig @ 3160.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.13

End Date:

2011.08.13

Last Calib.:

2011.08.13

Start Time: 10:10:10

End Time:

17:20:34

Time On Btm:

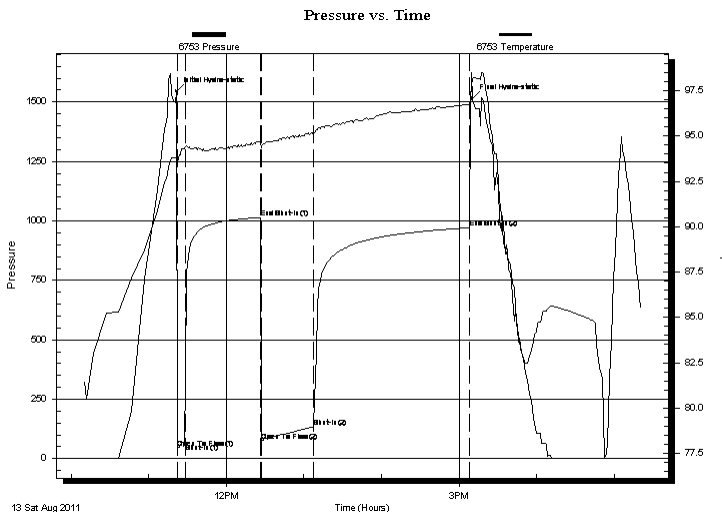
2011.08.13 @ 11:21:35

Time Off Btm:

2011.08.13 @ 15:10:05

TEST COMMENT: 5min IF-3/34in blow
60min ISI-No blow
40min FF-BOB in 35min
120min FSI-Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1544.08	93.85	Initial Hydro-static
1	41.92	93.58	Open To Flow (1)
7	65.34	94.29	Shut-In (1)
65	1014.29	94.63	End Shut-In (1)
66	75.23	94.33	Open To Flow (2)
106	133.53	95.22	Shut-In (2)
227	970.77	96.76	End Shut-In (2)
229	1513.88	98.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SGOMCW 5%G 5%O 60%W 30%M	1.41
60.00	GV SOMCW 10%G 2%O 68%W 20%M	0.84
30.00	GV SOWCM 10%G 2%O 28%W 60%M	0.42
0.00	60ft 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: 3104.00 ft	Diameter: 3.80 inches	Volume: 43.54 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:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3155.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	101.00 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			3120.00	
Drill Pipe	5.00			3125.00	
Recorder	0.00	8369	Fluid	3125.00	
Shut In Tool	5.00			3130.00	
Sampler	3.00			3133.00	
Hydraulic tool	5.00			3138.00	
Jars	5.00			3143.00	
Safety Joint	2.00			3145.00	
Packer	5.00			3150.00	36.00 Bottom Of Top Packer
Packer	5.00			3155.00	
Stubb	1.00			3156.00	
Perforations	4.00			3160.00	
Recorder	0.00	6753	Inside	3160.00	
Recorder	0.00	8319	Outside	3160.00	
Change Over Sub	1.00			3161.00	
Drill Pipe	31.00			3192.00	
Change Over Sub	1.00			3193.00	
Perforations	24.00			3217.00	
Bullnose	3.00			3220.00	65.00 Bottom Packers & Anchor

Total Tool Length: 101.00



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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:

72000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

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 bbbl
120.00	SGOMCW 5%G 5%O 60%W 30%M	1.410
60.00	GV SOMCW 10%G 2%O 68%W 20%M	0.842
30.00	GV SOWCM 10%G 2%O 28%W 60%M	0.421
0.00	60ft GIP	0.000

Total Length: 210.00 ft Total Volume: 2.673 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

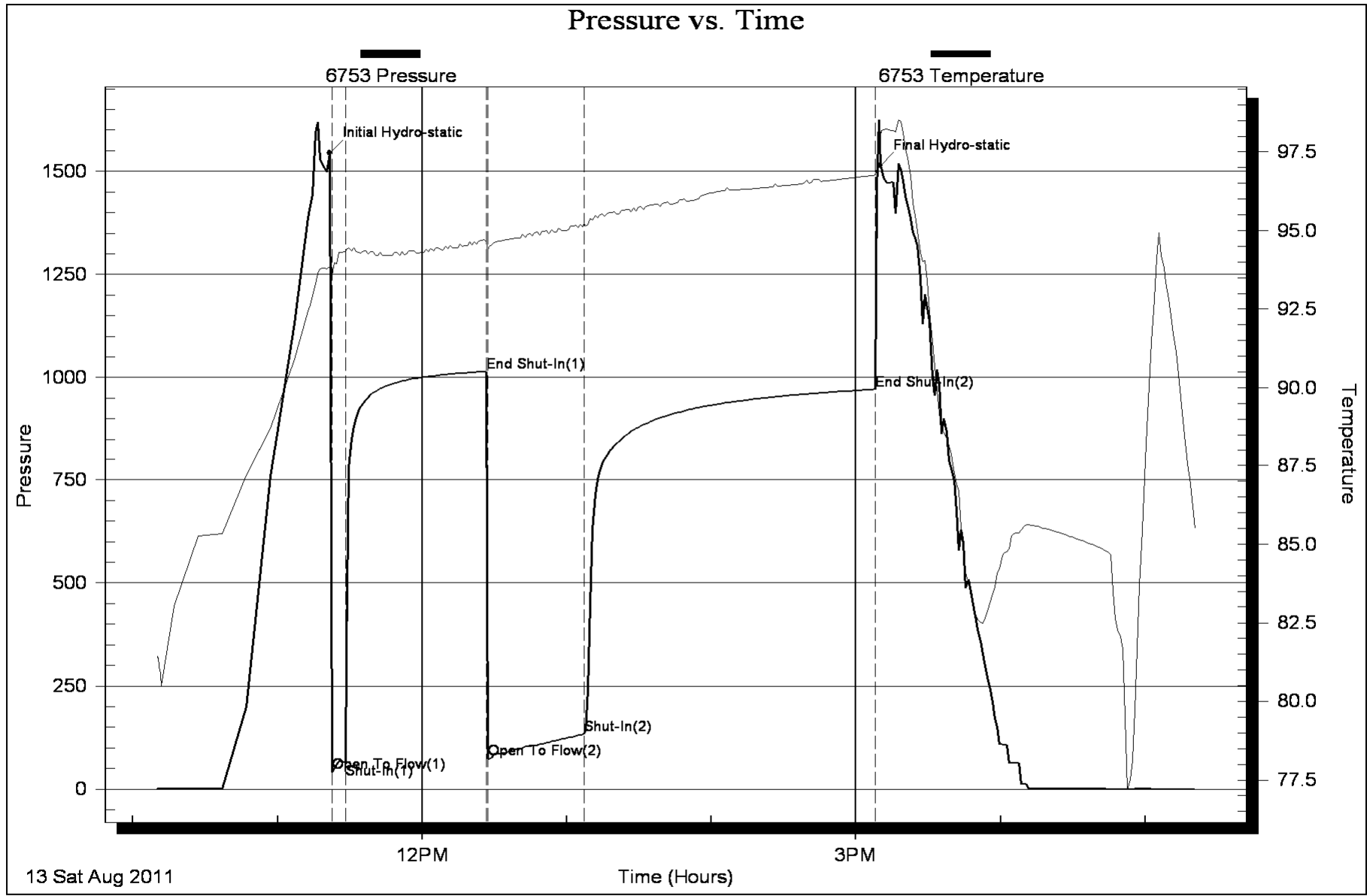
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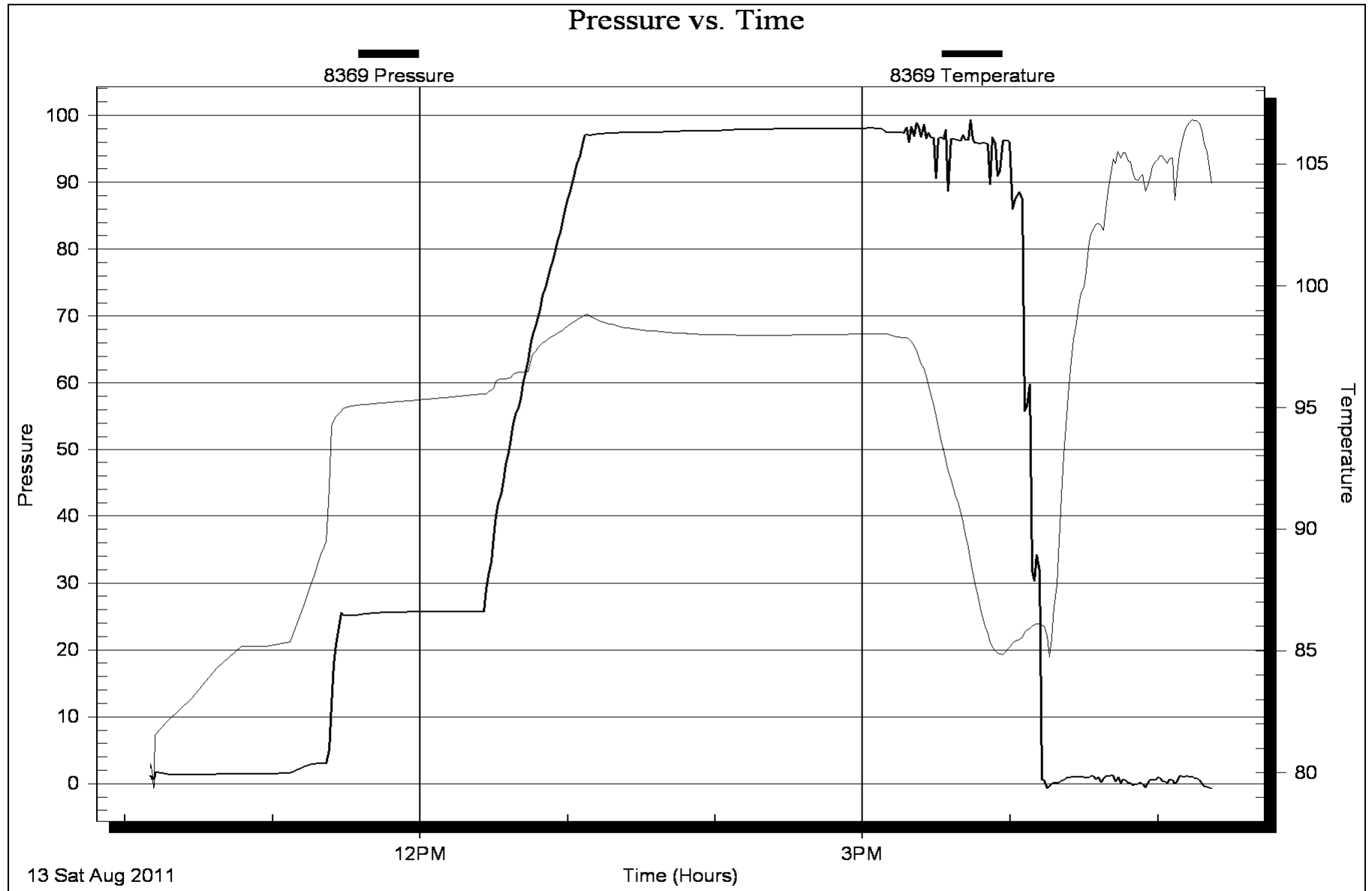
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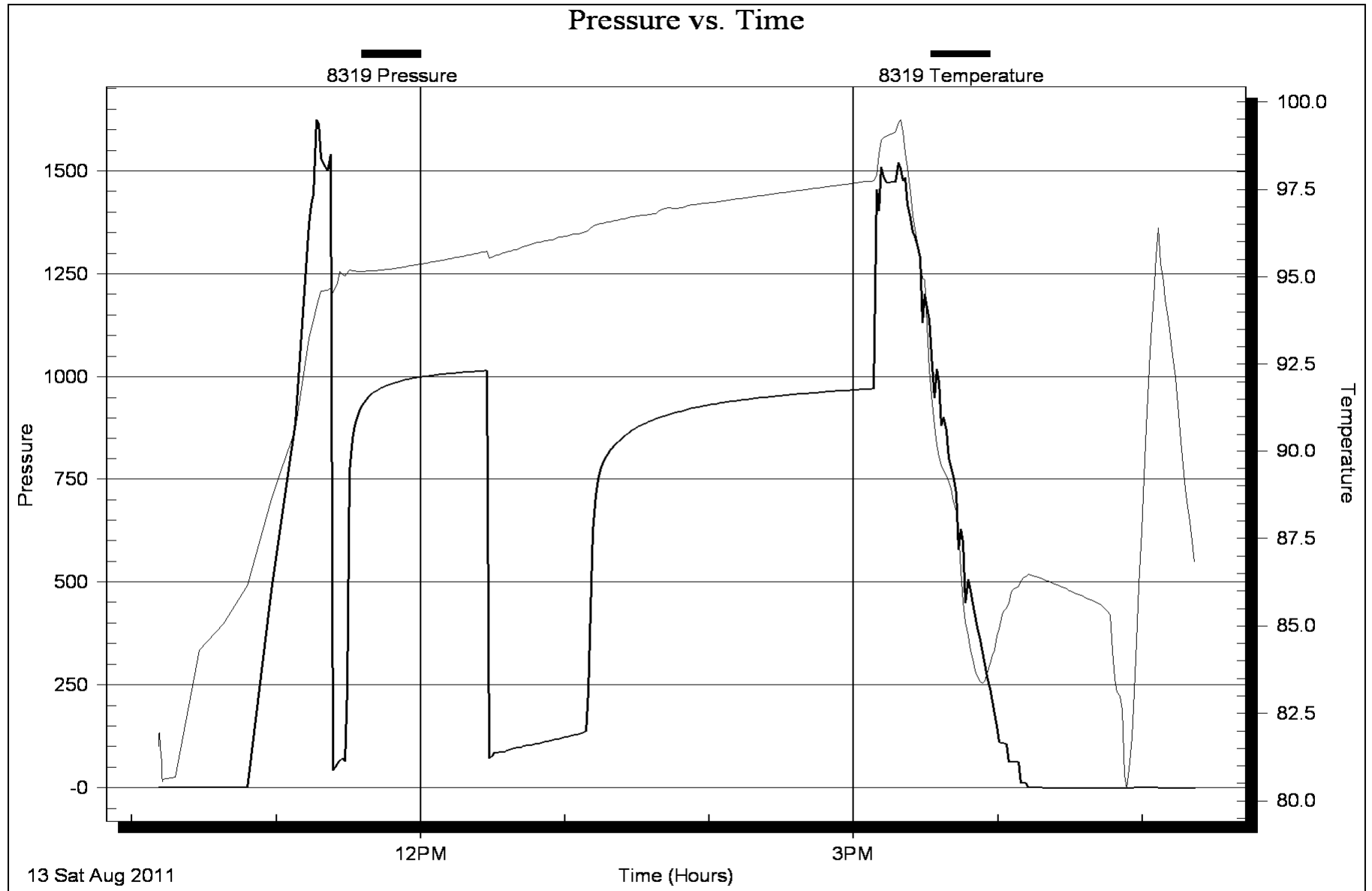
Laboratory Location:

Recovery Comments: RW .08@95

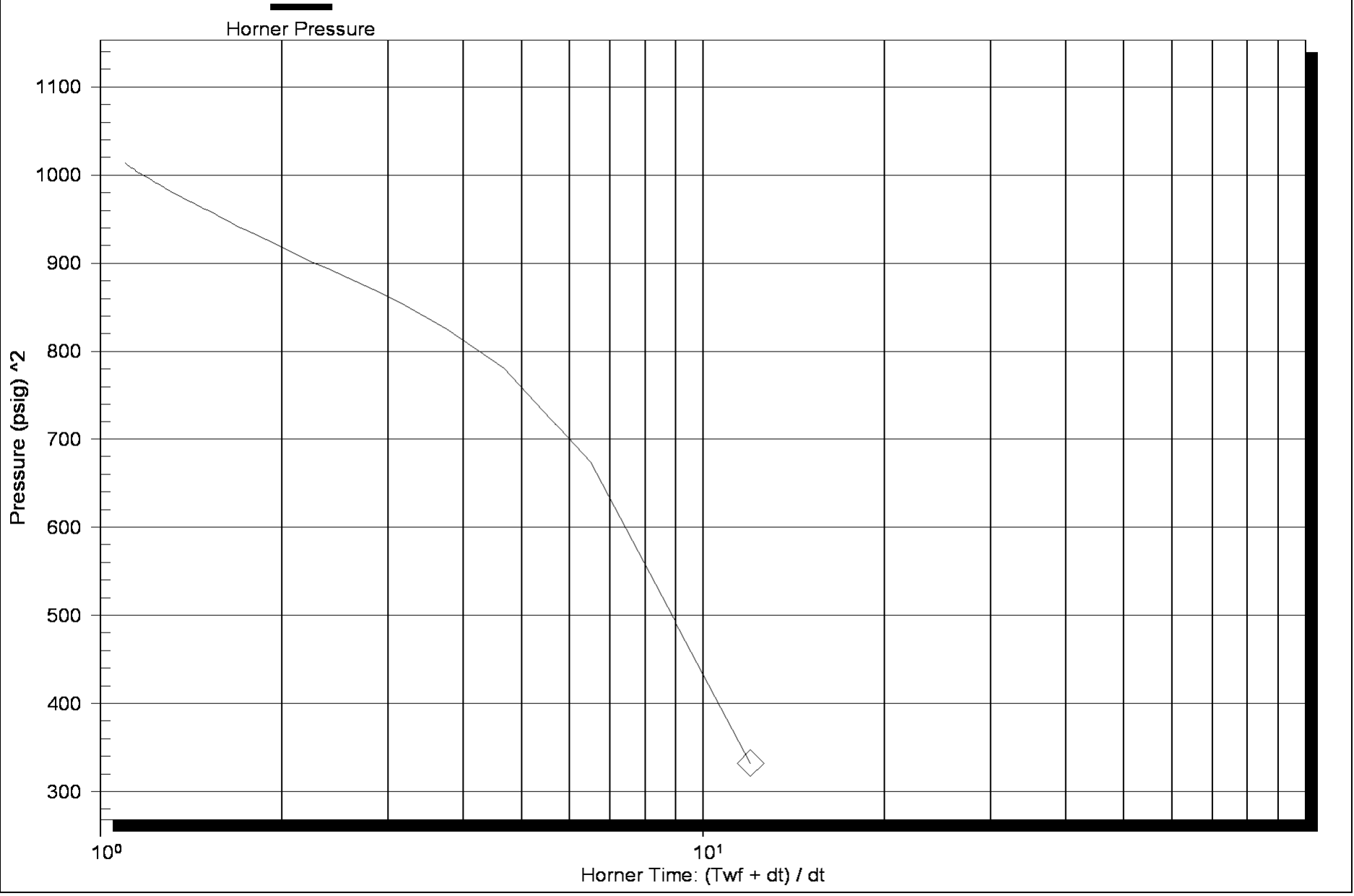
Sampler Data 1500G 250O 2250W 425Psi



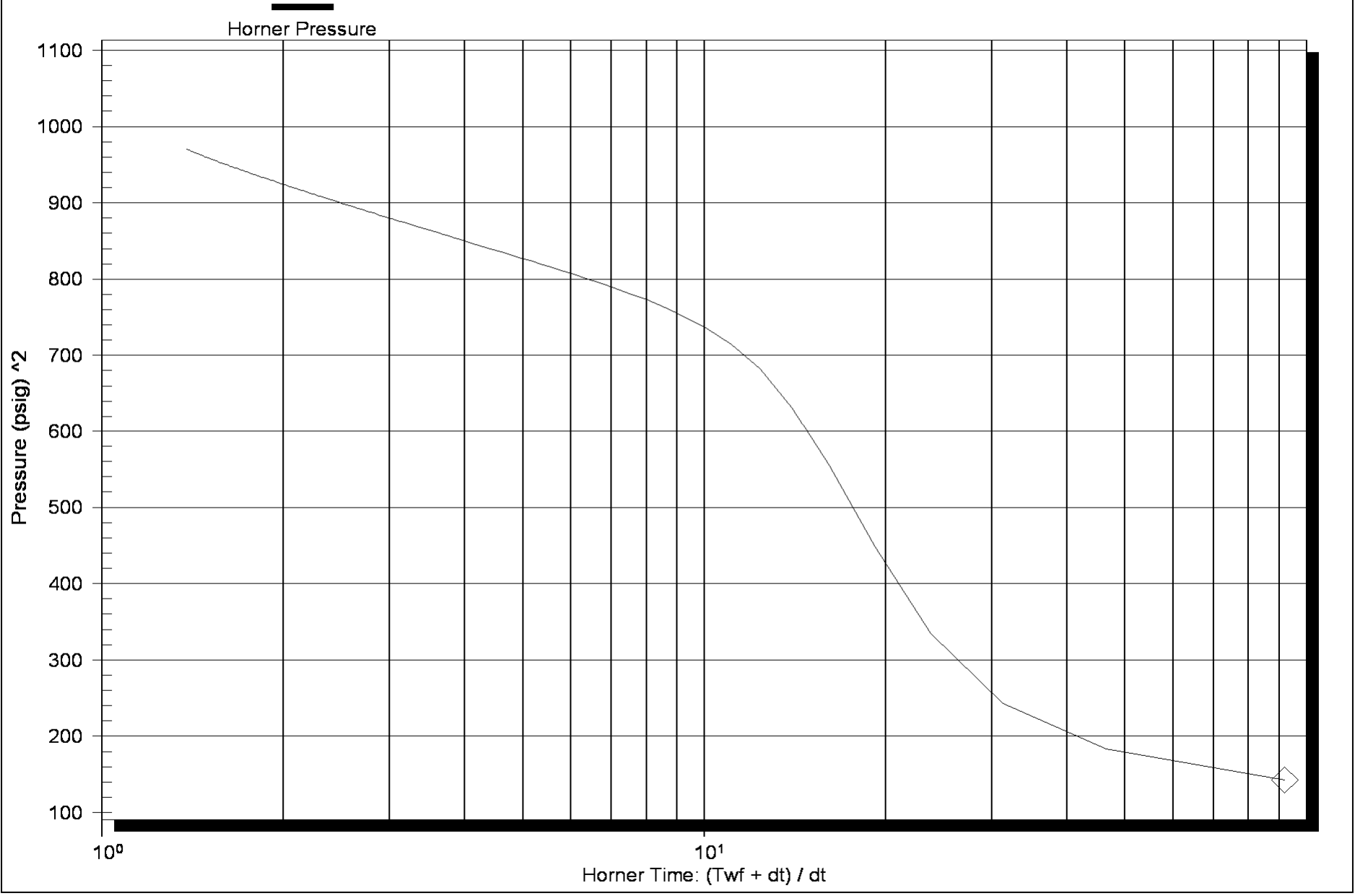




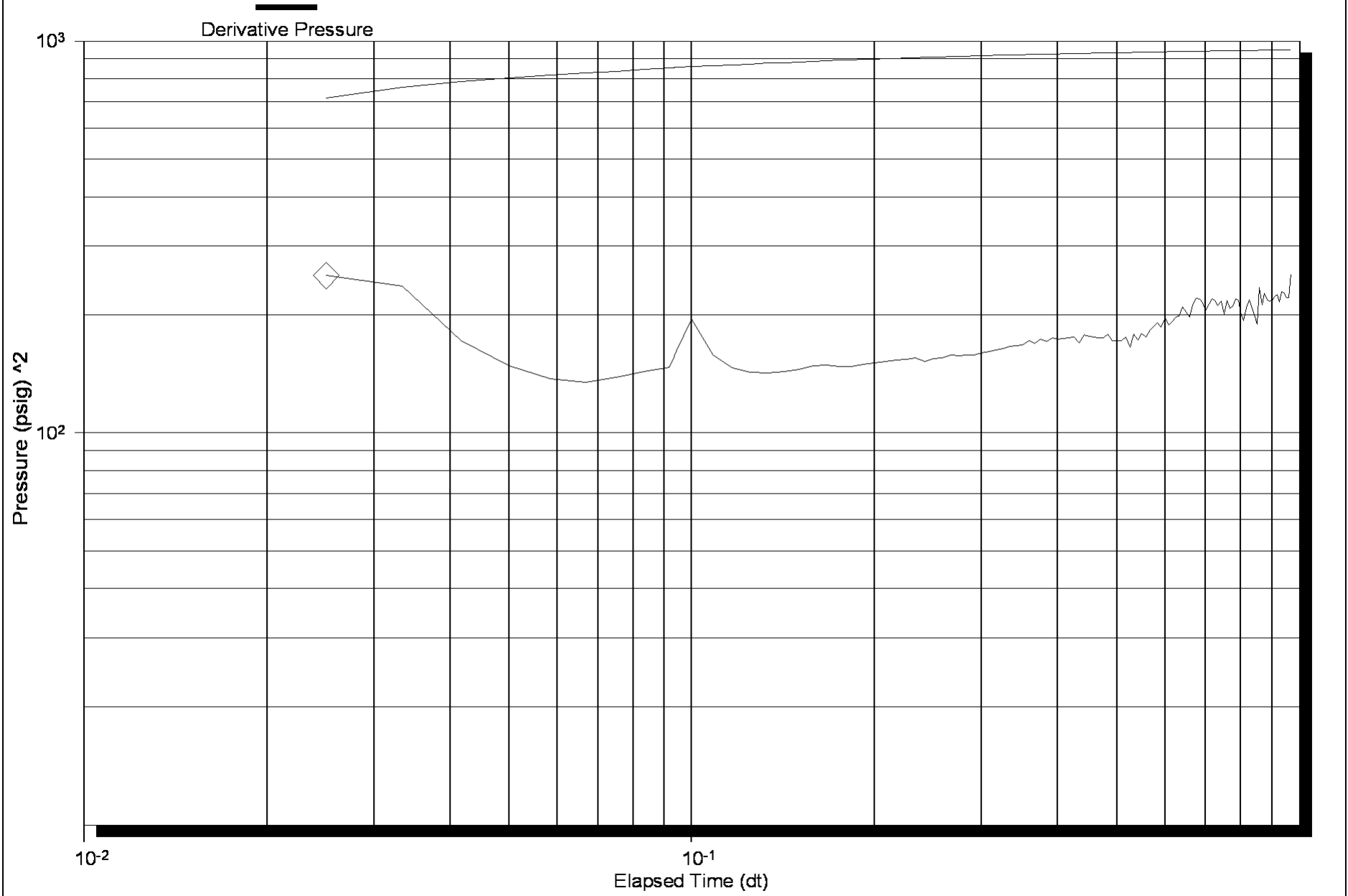
Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

