



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 @ 18:15:17

End Date: 2011.08.15 @ 00:06:17

Job Ticket #: 44289 DST #: 4

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: 2011.08.14 @ 18:15:17

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:17

Time Test Ended: 00:06:17

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3268.00 ft (KB) To 3295.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3295.00 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: 26.61 psig @ 3269.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.14

End Date:

2011.08.15

Last Calib.:

2011.08.15

Start Time: 18:15:22

End Time:

00:06:16

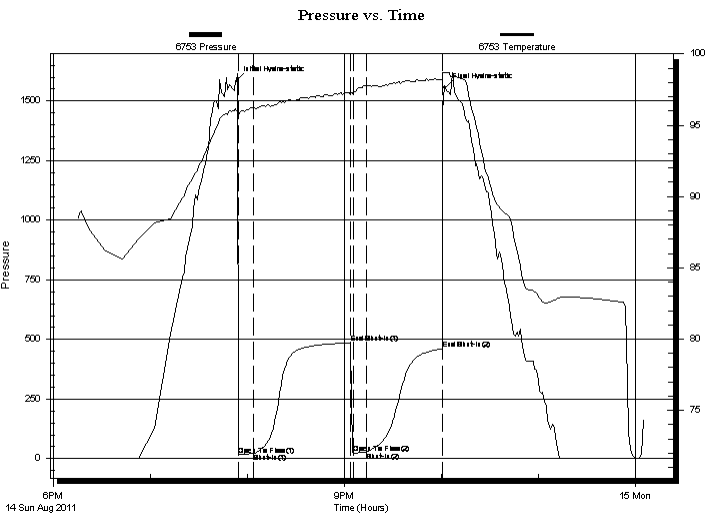
Time On Btm:

2011.08.14 @ 19:53:17

Time Off Btm:

2011.08.14 @ 22:02:17

TEST COMMENT: 10min IF-Very weak surface blow
60min ISI-No blow
10min FF-No blow
45min FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.58	96.03	Initial Hydro-static
1	15.57	95.79	Open To Flow (1)
11	20.69	96.27	Shut-In(1)
71	486.05	97.32	End Shut-In(1)
72	22.79	97.34	Open To Flow (2)
80	26.61	97.75	Shut-In(2)
127	459.37	98.24	End Shut-In(2)
129	1556.42	98.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

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 @ 18:15:17

Tool Information

Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 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:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3268.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	62.00 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			3234.00	
Recorder	0.00	8369	Fluid	3234.00	
Drill Pipe	5.00			3239.00	
Shut In Tool	5.00			3244.00	
Sampler	3.00			3247.00	
Hydraulic tool	5.00			3252.00	
Jars	5.00			3257.00	
Safety Joint	2.00			3259.00	
Packer	4.00			3263.00	35.00 Bottom Of Top Packer
Packer	5.00			3268.00	
Stubb	1.00			3269.00	
Recorder	0.00	8319	Inside	3269.00	
Recorder	0.00	6753	Outside	3269.00	
Perforations	23.00			3292.00	
Bullnose	3.00			3295.00	27.00 Bottom Packers & Anchor

Total Tool Length: 62.00



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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:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 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 bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

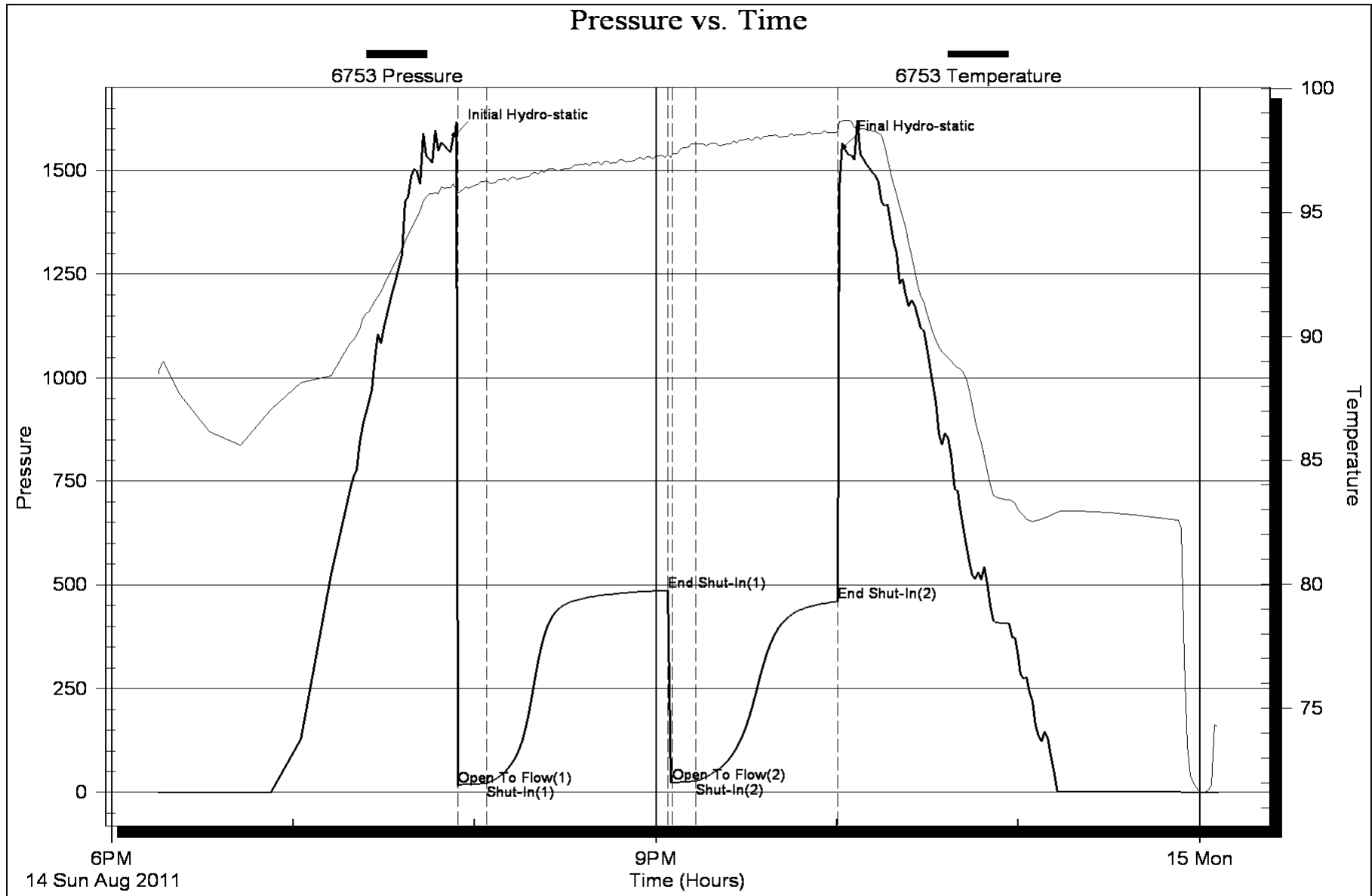
Num Gas Bombs: 0

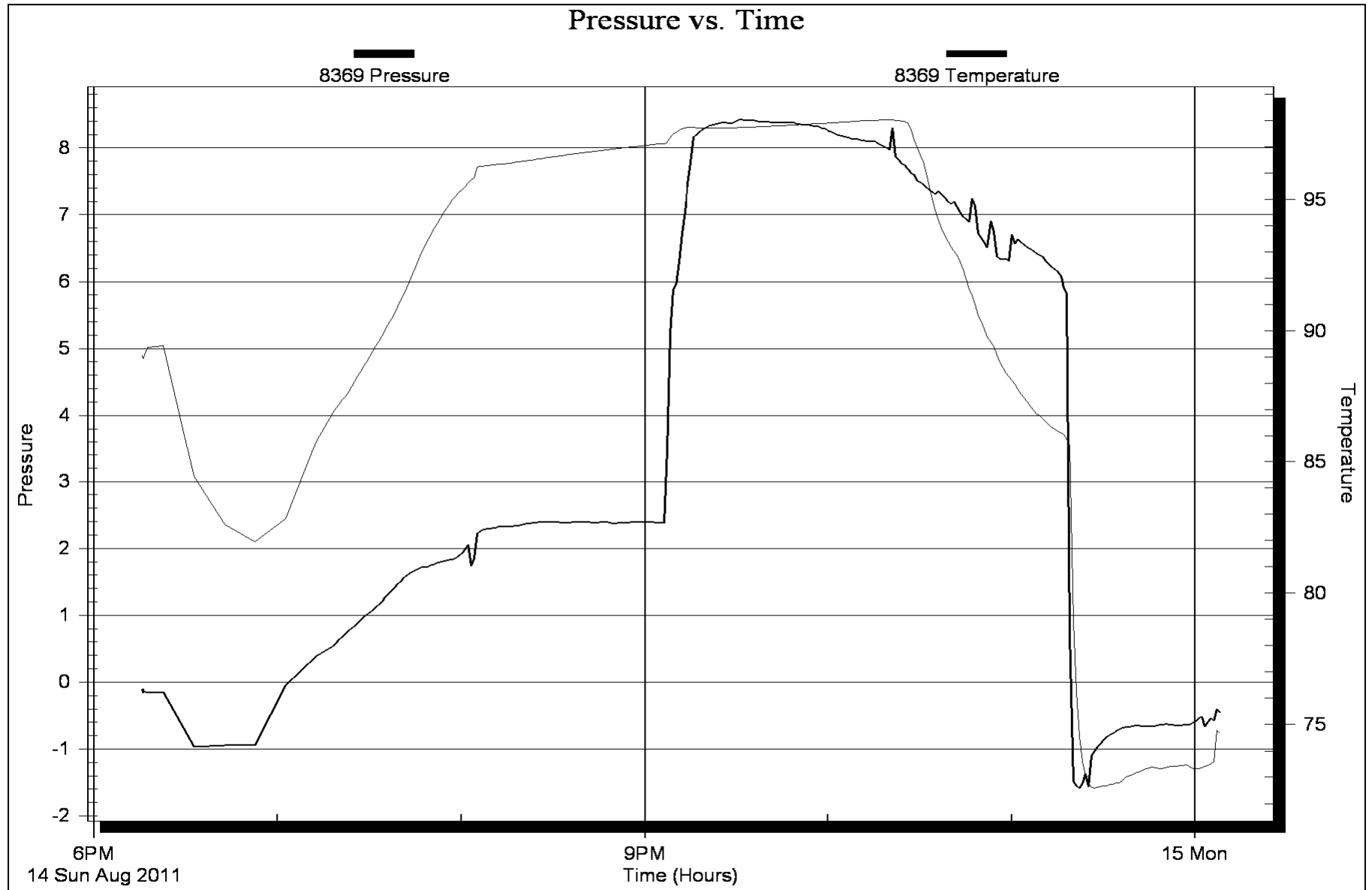
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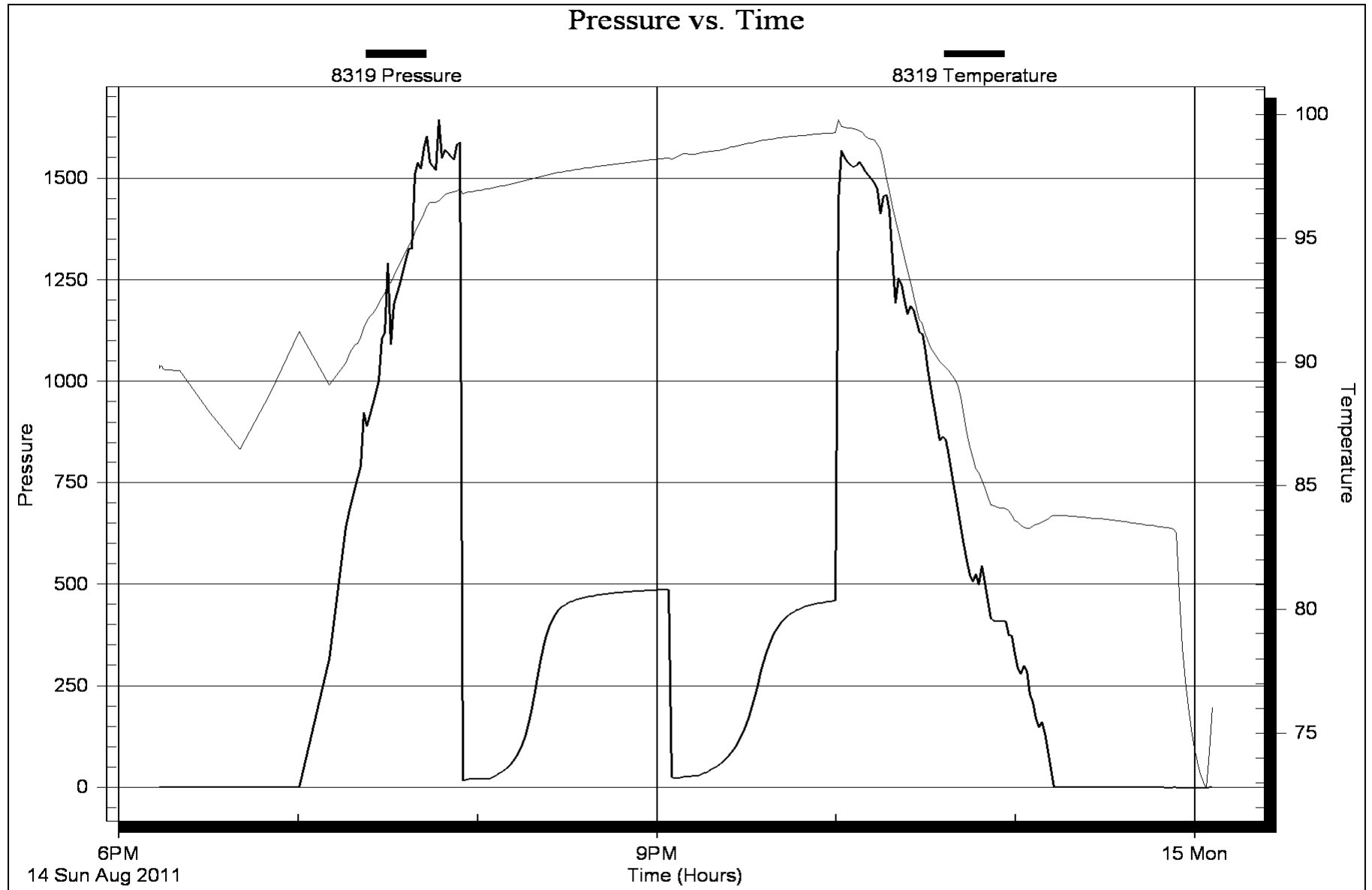
Laboratory Name:

Laboratory Location:

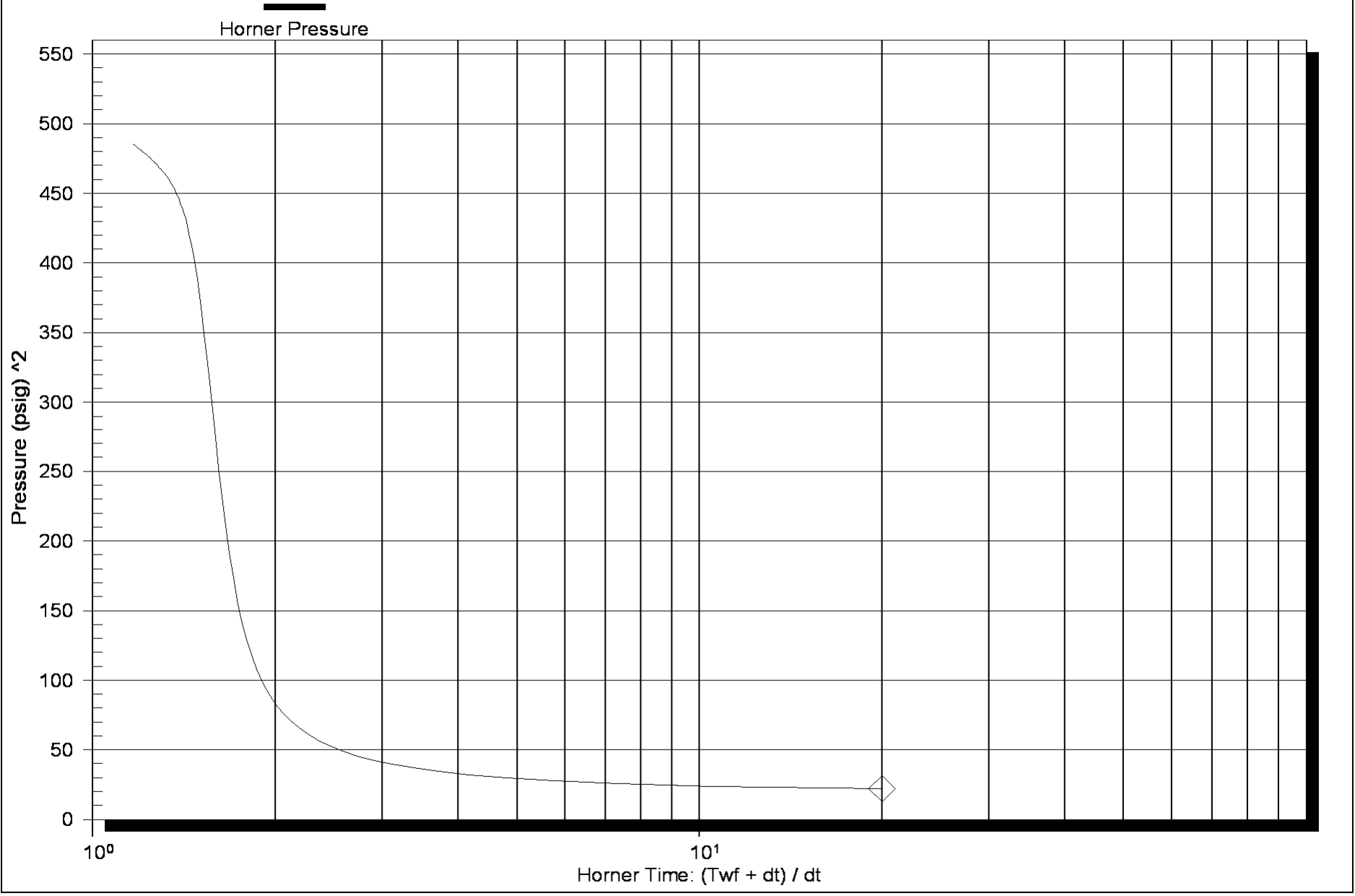
Recovery Comments: Sampler Data 4000ml mud 100psi



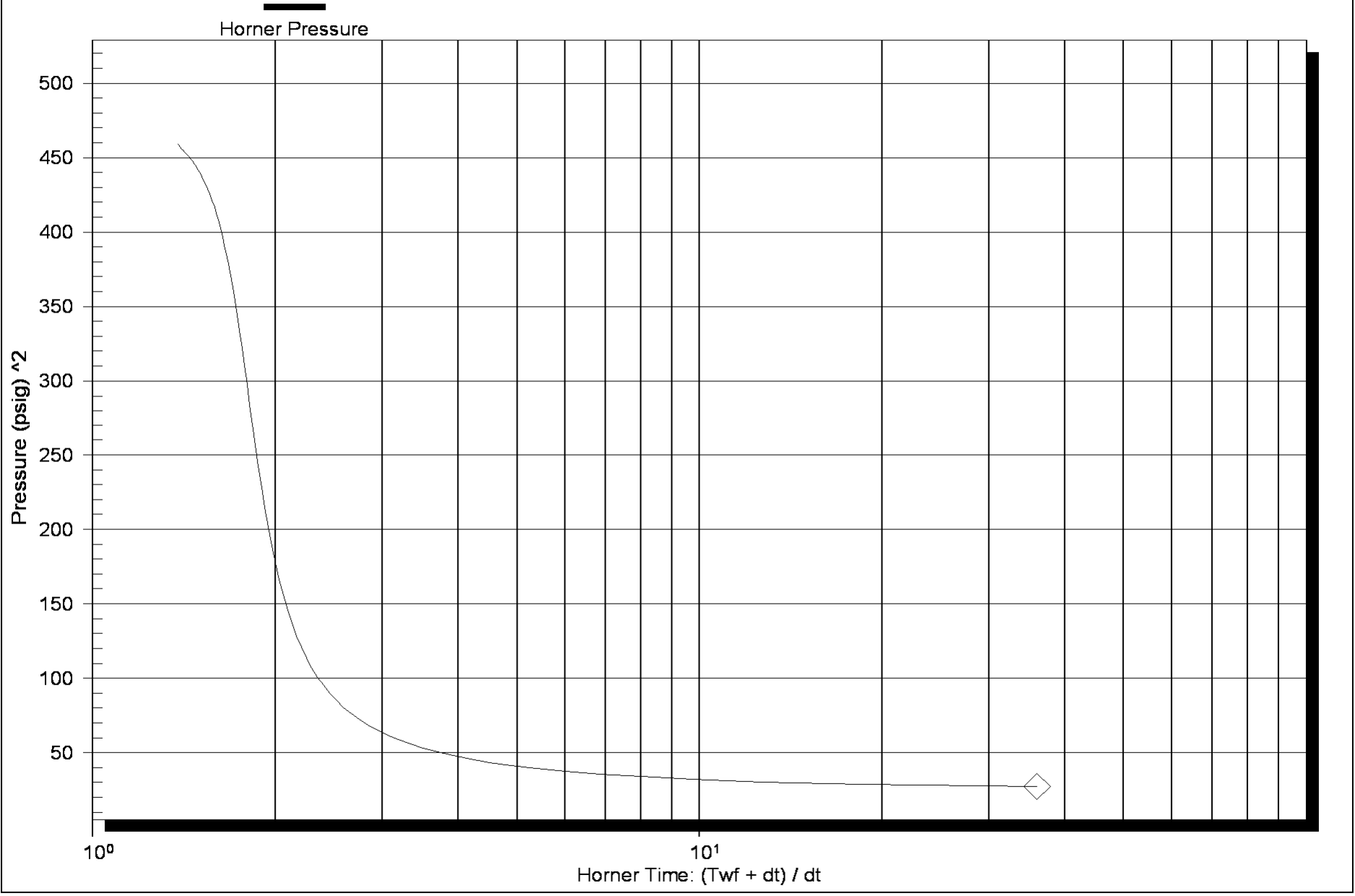




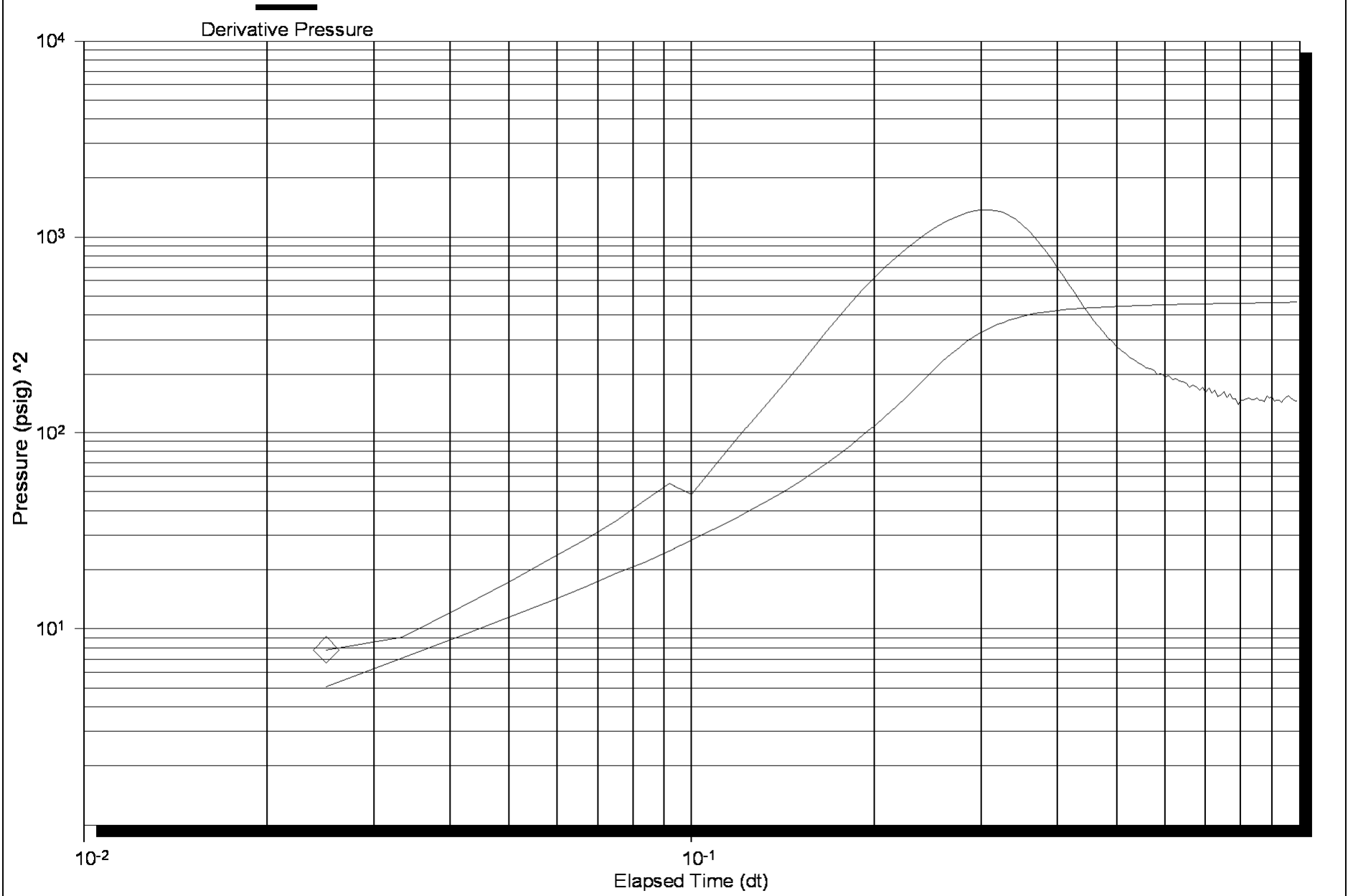
Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

