



DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1515 Wynkoop
Denver CO

ATTN: Clayton/Tom

14 16s 16w Rush KS

Long et al 1-14

Start Date: 2011.08.08 @ 14:49:22

End Date: 2011.08.08 @ 20:48:51

Job Ticket #: 39731 DST #: 1

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#: 1

Test Start: 2011.08.08 @ 14:49:22

GENERAL INFORMATION:

Formation: **Lansing I-J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:46:51

Time Test Ended: 20:48:51

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 44

Interval: 3375.00 ft (KB) To 3430.00 ft (KB) (TVD)

Reference Elevations: 1927.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

1919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321 Outside

Press @ Run Depth: 42.82 psig @ 3380.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.08

End Date:

2011.08.08

Last Calib.:

2011.08.08

Start Time: 14:49:22

End Time:

20:48:51

Time On Btm:

2011.08.08 @ 16:45:51

Time Off Btm:

2011.08.08 @ 19:09:51

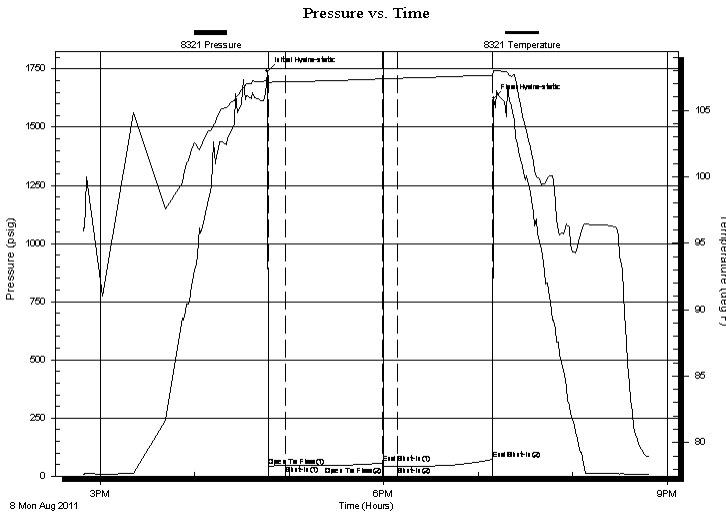
TEST COMMENT: 10- IF weak blow died in 7 minutes

60- ISI

10- FF no blow

60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.47	107.27	Initial Hydro-static
1	43.51	107.03	Open To Flow (1)
12	46.04	107.15	Shut-In(1)
73	56.79	107.37	End Shut-In(1)
74	44.03	107.37	Open To Flow (2)
83	42.82	107.41	Shut-In(2)
143	72.07	107.64	End Shut-In(2)
144	1622.93	107.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.64 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3375.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	91.00 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			3340.00	
Recorder	0.00	8737	Fluid	3340.00	
Blank Spacing	5.00			3345.00	
Shut In Tool	5.00			3350.00	
Sampler	3.00			3353.00	
Hydraulic tool	5.00			3358.00	
Jars	5.00			3363.00	
Safety Joint	2.00			3365.00	
Packer	5.00			3370.00	36.00 Bottom Of Top Packer
Packer	5.00			3375.00	
Stubb	1.00			3376.00	
Perforations	3.00			3379.00	
Change Over Sub	1.00			3380.00	
Recorder	0.00	8679	Inside	3380.00	
Recorder	0.00	8321	Outside	3380.00	
Blank Spacing	31.00			3411.00	
Change Over Sub	1.00			3412.00	
Perforations	15.00			3427.00	
Bullnose	3.00			3430.00	55.00 Bottom Packers & Anchor

Total Tool Length: 91.00



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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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

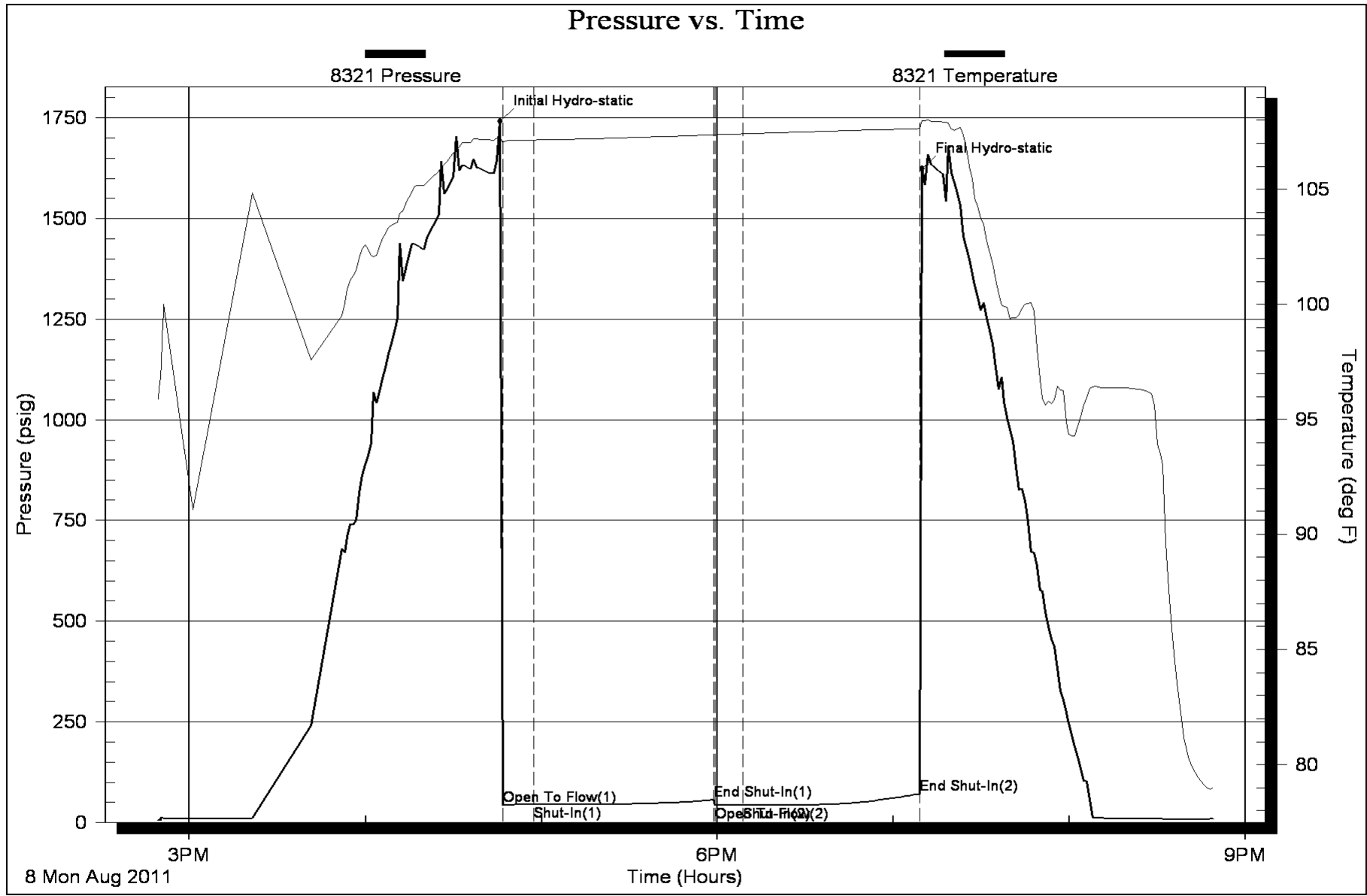
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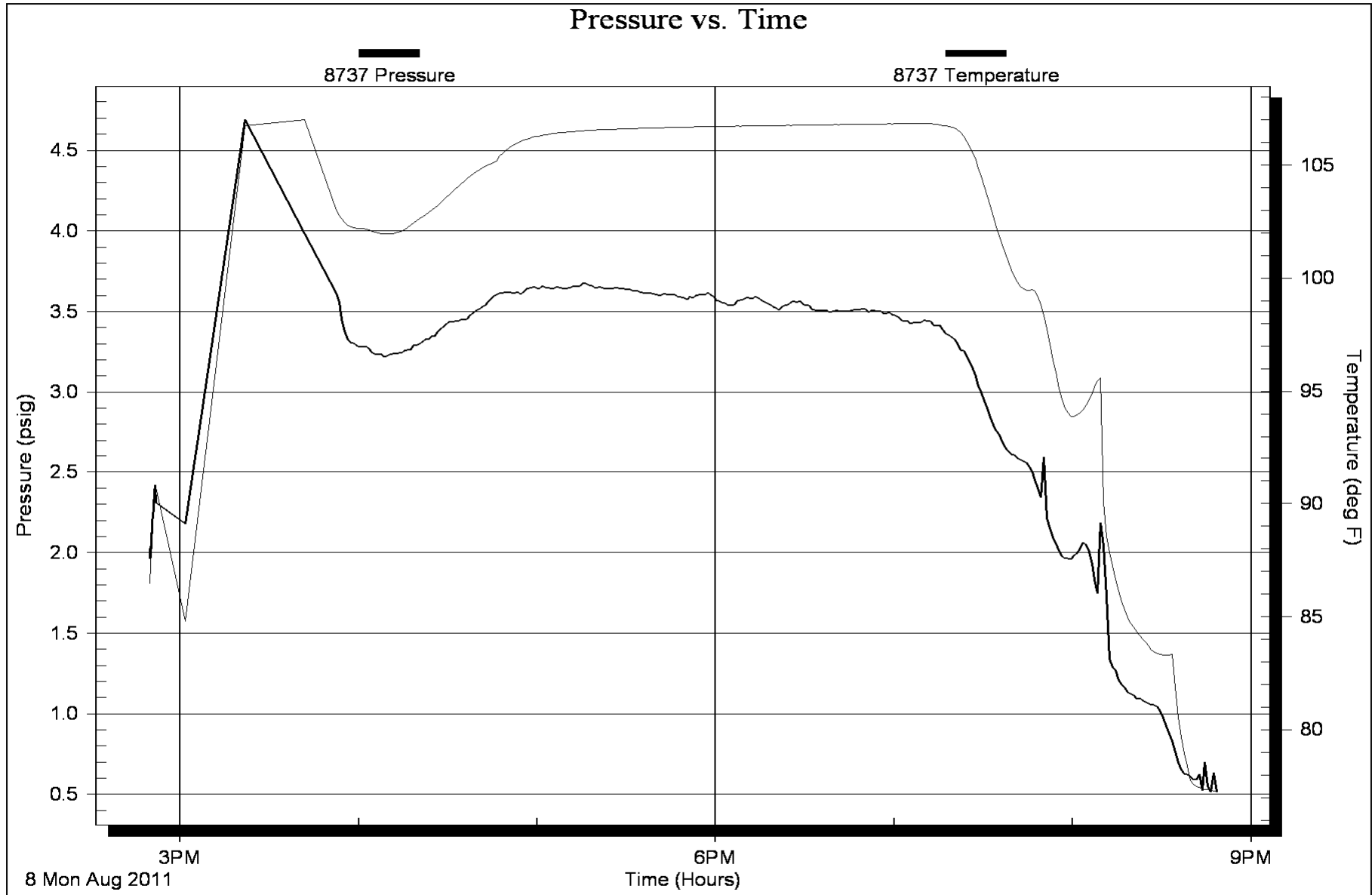
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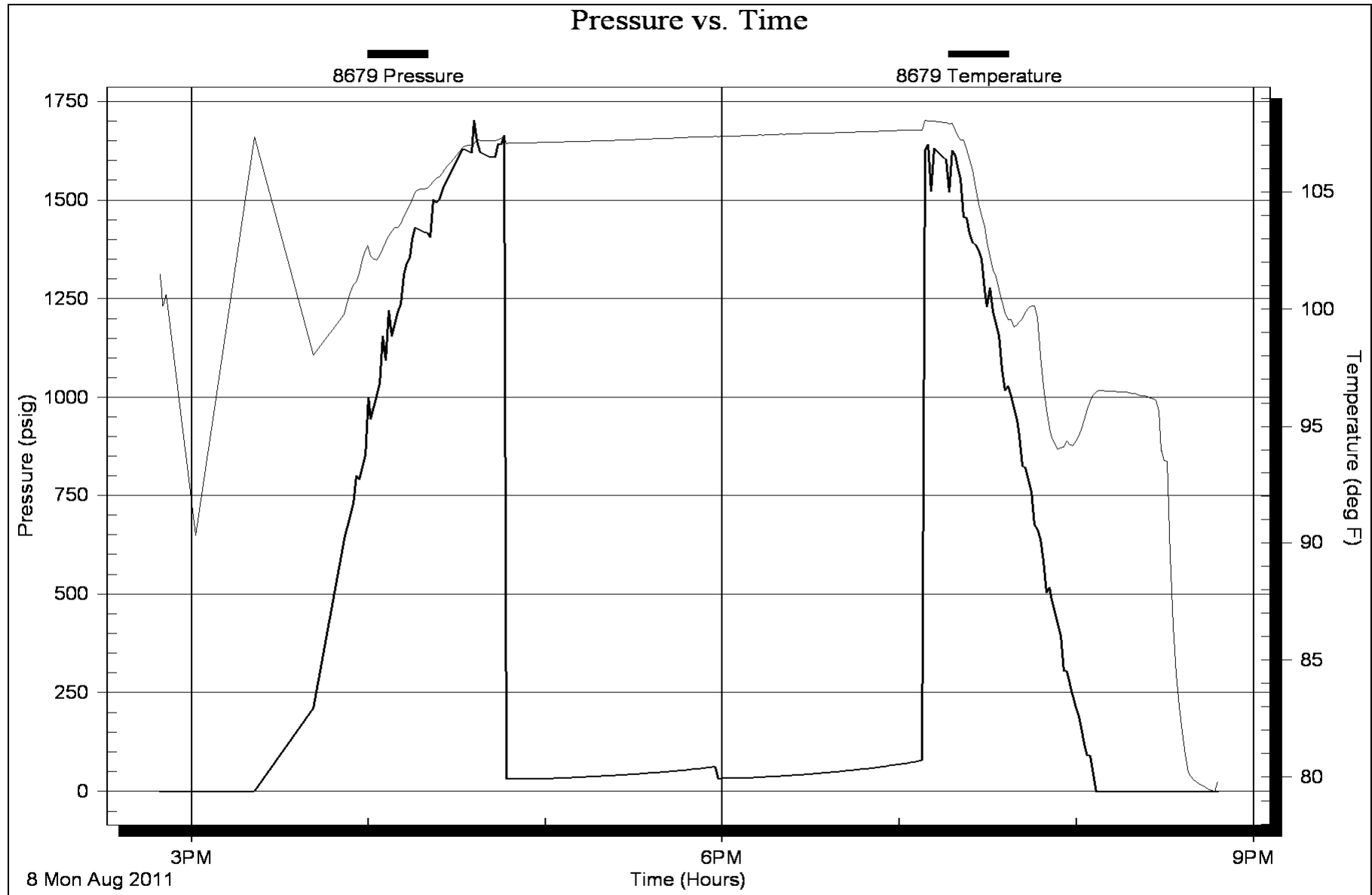
Laboratory Name:

Laboratory Location:

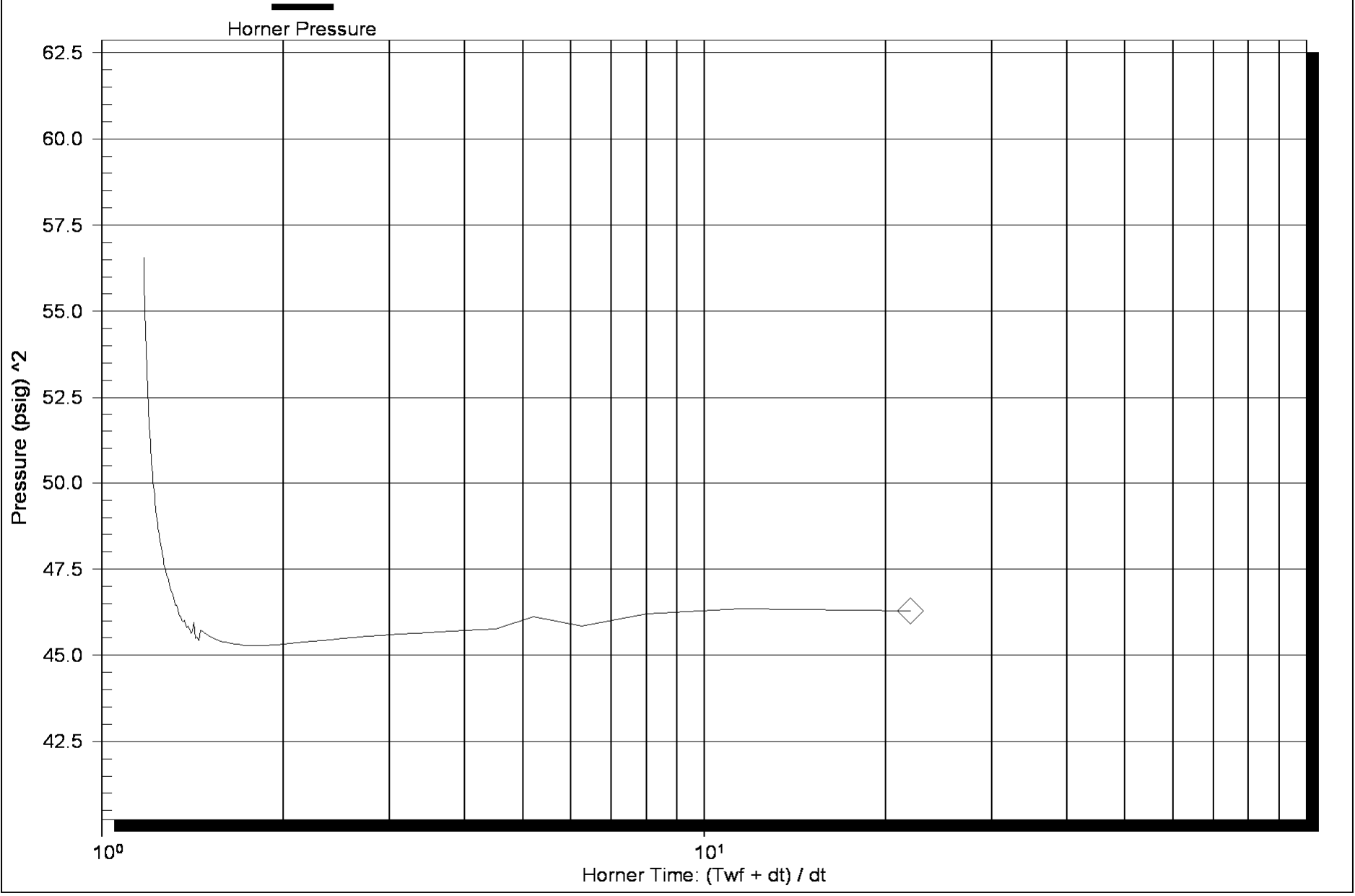
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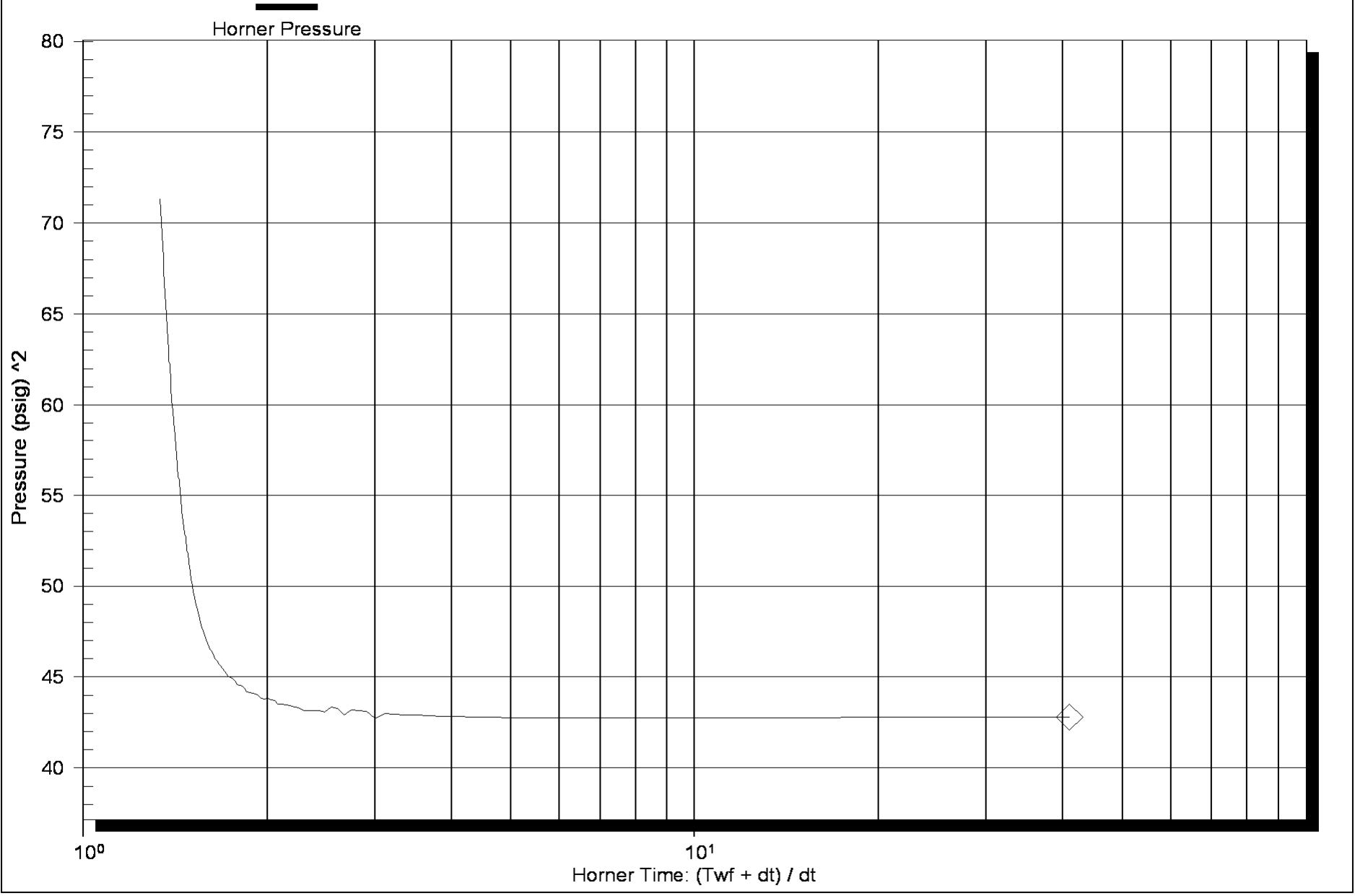




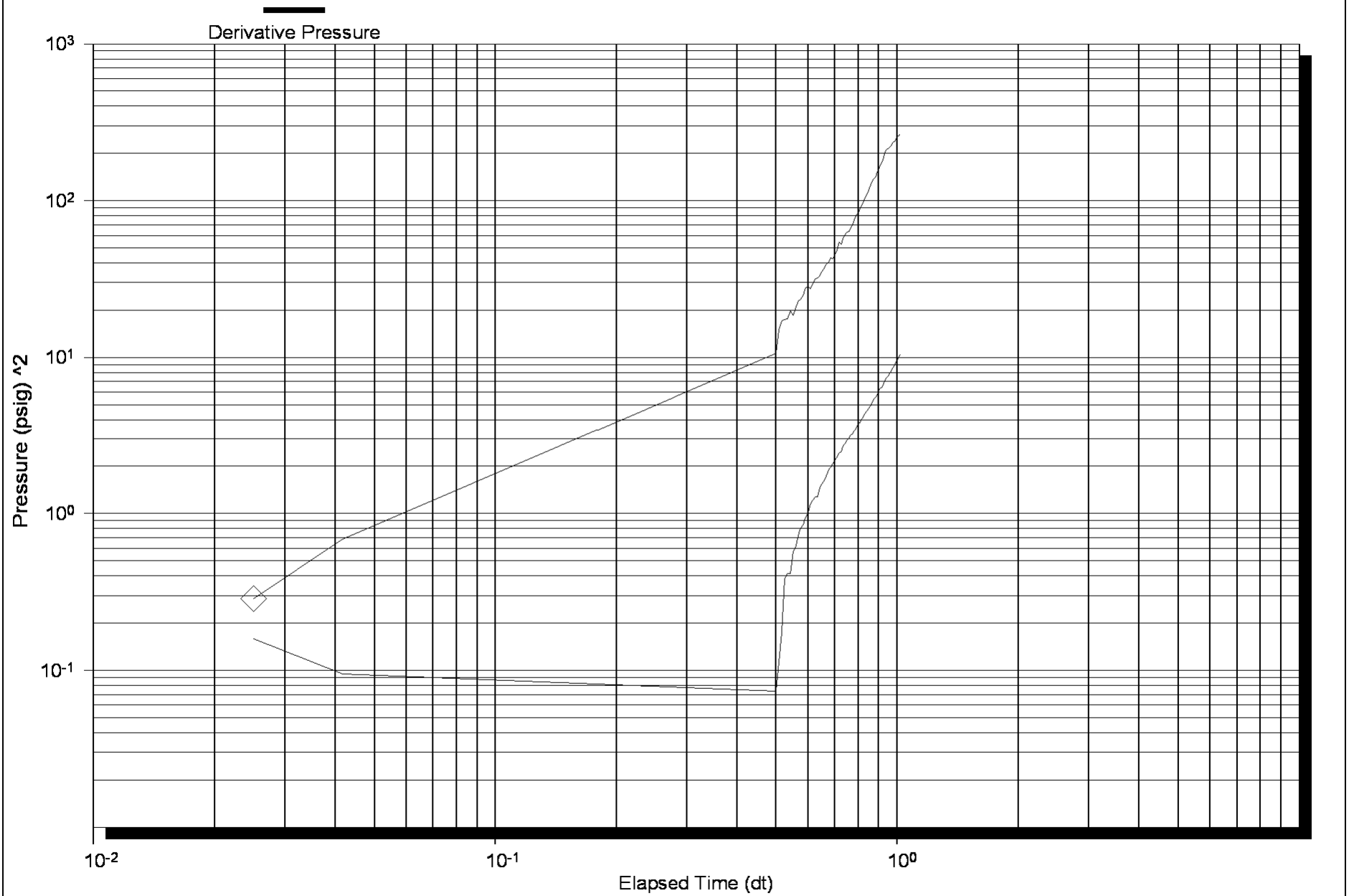
Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

