



DRILL STEM TEST REPORT

Prepared For: **Sam Gary & assoc.inc.**

1515 Wynkoop
STE 700
Denver Co. 80202

ATTN: Clysytton Camozzi

36-15s-16w Ellis

B.W.1-36

Start Date: 2010.11.21 @ 14:30:05

End Date: 2010.11.21 @ 22:39:50

Job Ticket #: 039987 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DST#: 1

Test Start: 2010.11.21 @ 14:30:05

GENERAL INFORMATION:

Formation: **Lansing "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:00

Time Test Ended: 22:39:50

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3152.00 ft (KB) To 3216.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3216.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 269.21 psig @ 3156.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.21

End Date:

2010.11.21

Last Calib.:

2010.11.21

Start Time: 14:30:05

End Time:

22:39:50

Time On Btm:

2010.11.21 @ 16:03:50

Time Off Btm:

2010.11.21 @ 18:41:20

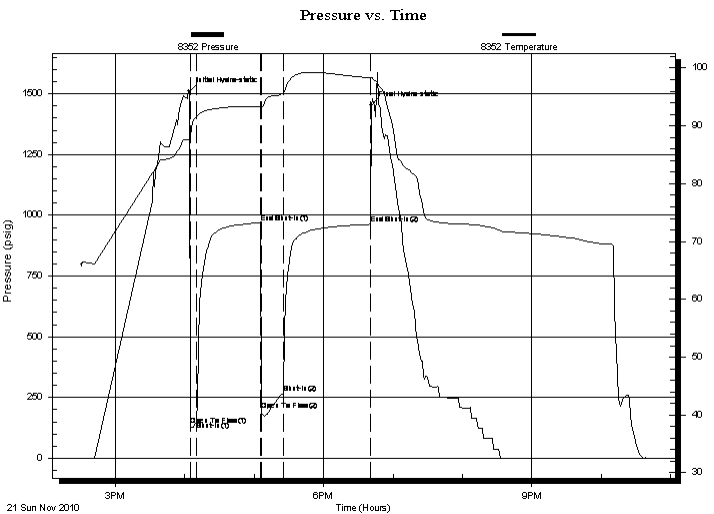
TEST COMMENT: IF: BOB, 30 sec.

IS: Blow Back, one half inch

FF: BOB, Immediately

FS: Blow Back, one half inch

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.75	87.67	Initial Hydro-static
2	136.61	87.58	Open To Flow (1)
7	152.42	91.60	Shut-In(1)
62	970.27	93.42	End Shut-In(1)
63	199.80	93.00	Open To Flow (2)
82	269.21	95.59	Shut-In(2)
157	962.77	98.28	End Shut-In(2)
158	1452.98	98.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
727.00	CGO	9.92

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: 3108.00 ft	Diameter: 3.80 inches	Volume: 43.60 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 30.81 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 43.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.81 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3152.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	97.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Sampler Analysis= Gas=1.8CF Oil=3200ML Pressure=700LBS

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8650	Fluid	3119.00	
Blank Spacing	3.00			3122.00	
Shut In Tool	5.00			3127.00	
Sampler	3.00			3130.00	
Hydraulic tool	5.00			3135.00	
Jars	5.00			3140.00	
Safety Joint	3.00			3143.00	
Packer	5.00			3148.00	33.00 Bottom Of Top Packer
Packer	4.00			3152.00	
Stubb	1.00			3153.00	
Perforations	2.00			3155.00	
Change Over Sub	1.00			3156.00	
Recorder	0.00	8017	Inside	3156.00	
Recorder	0.00	8352	Outside	3156.00	
Drill Pipe	32.00			3188.00	
Change Over Sub	1.00			3189.00	
Perforations	24.00			3213.00	
Bullnose	3.00			3216.00	64.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 5400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 47 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

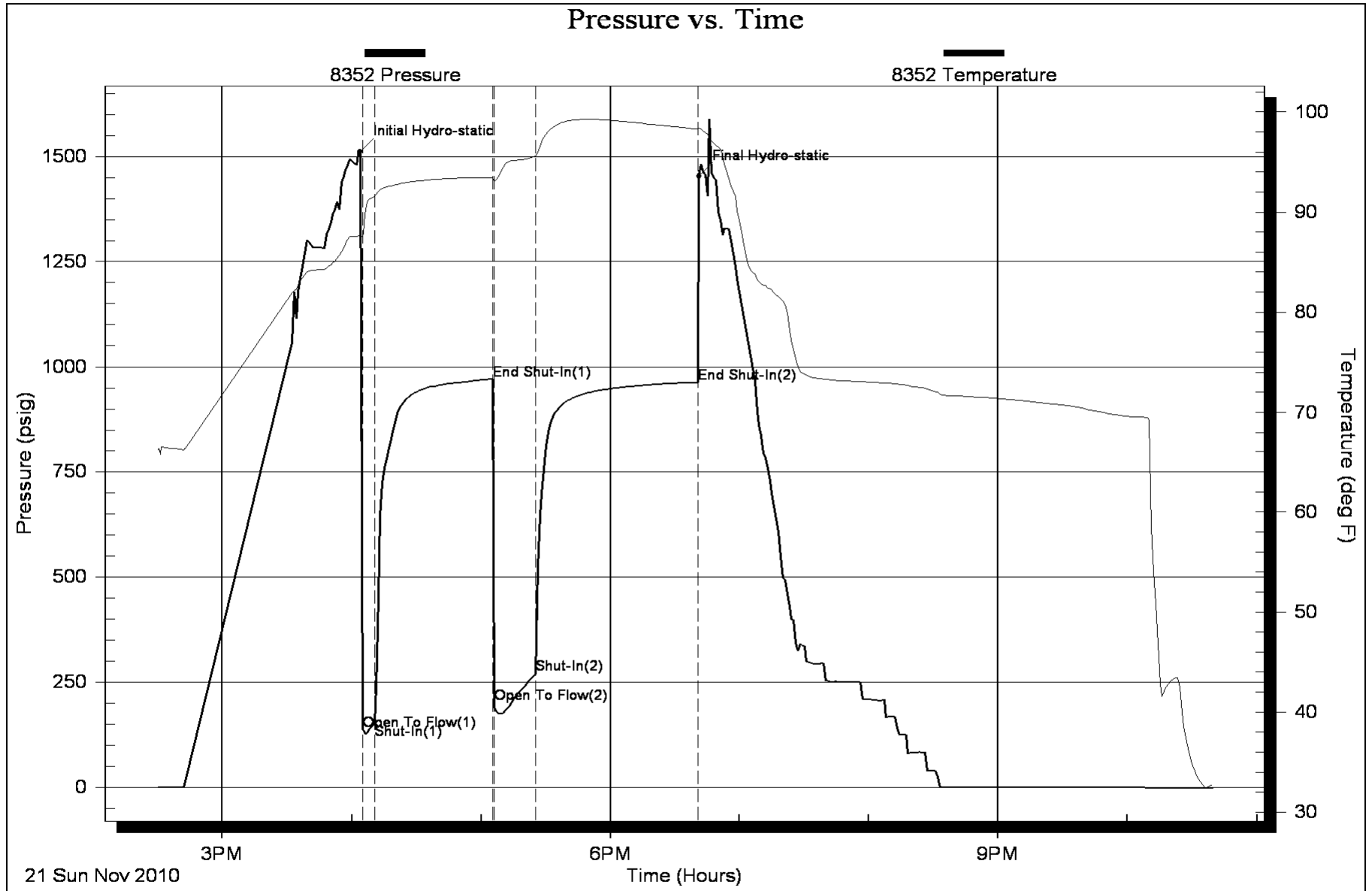
Length ft	Description	Volume bbl
727.00	CGO	9.917

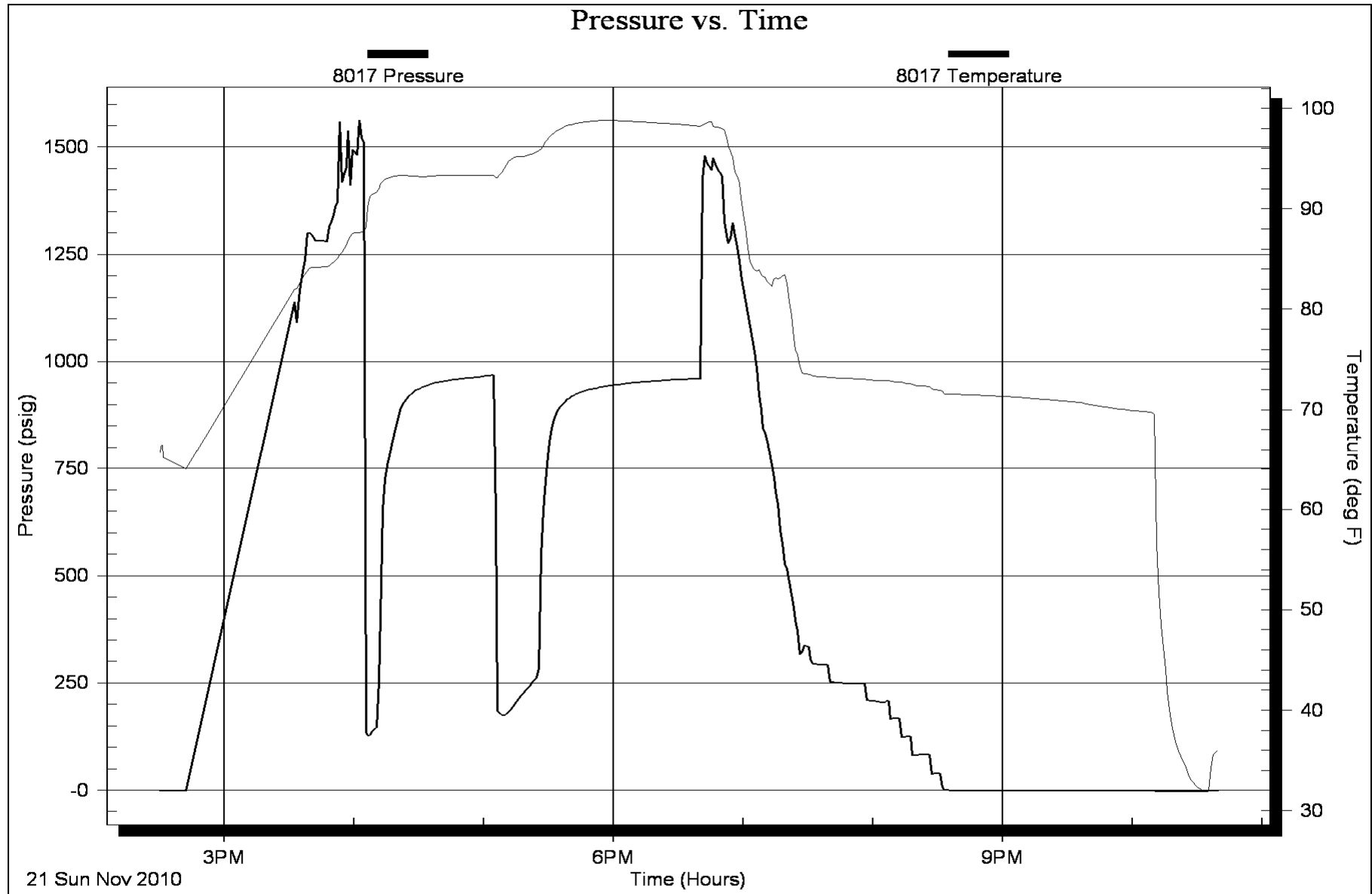
Total Length: 727.00 ft Total Volume: 9.917 bbl

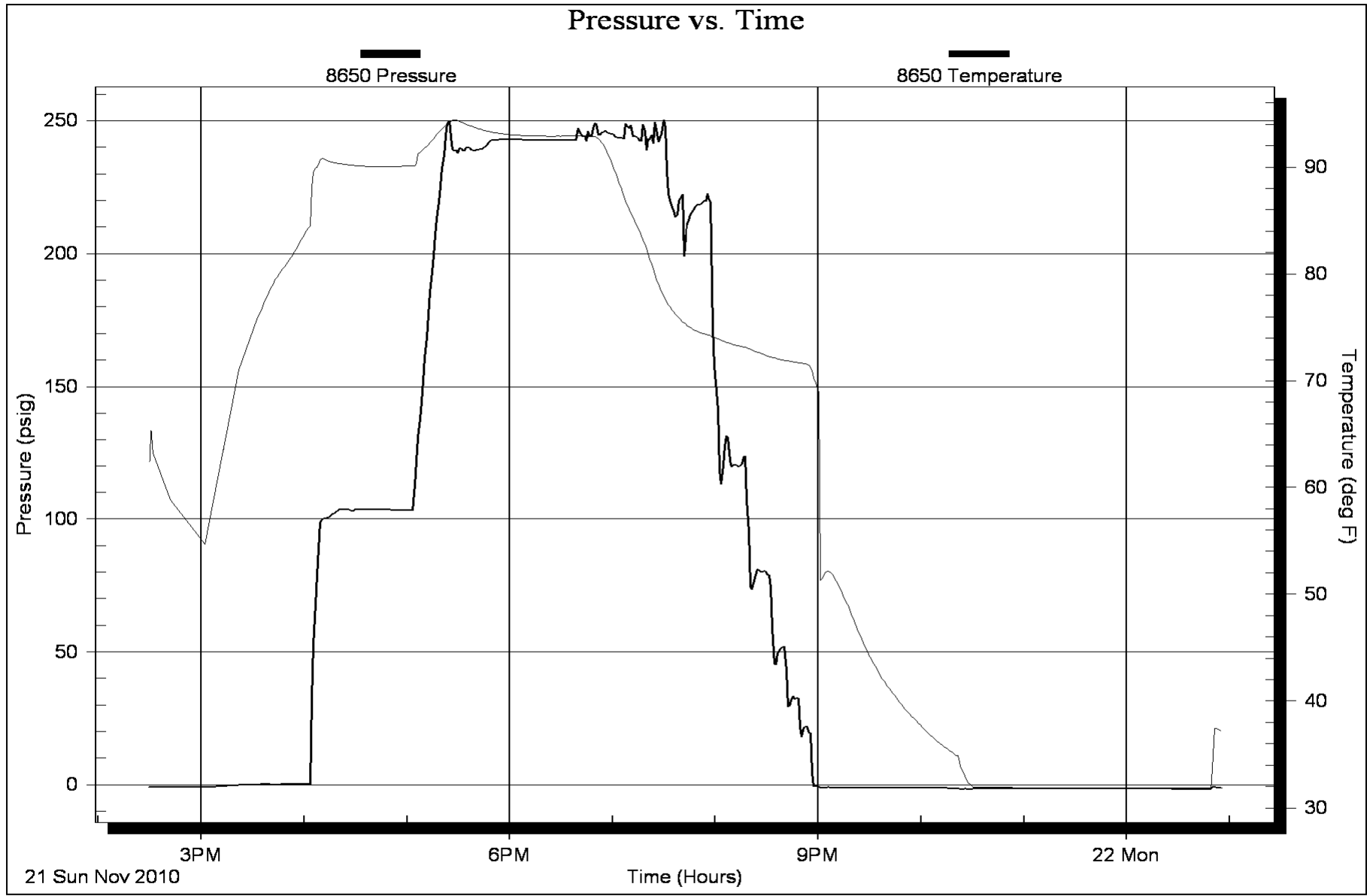
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

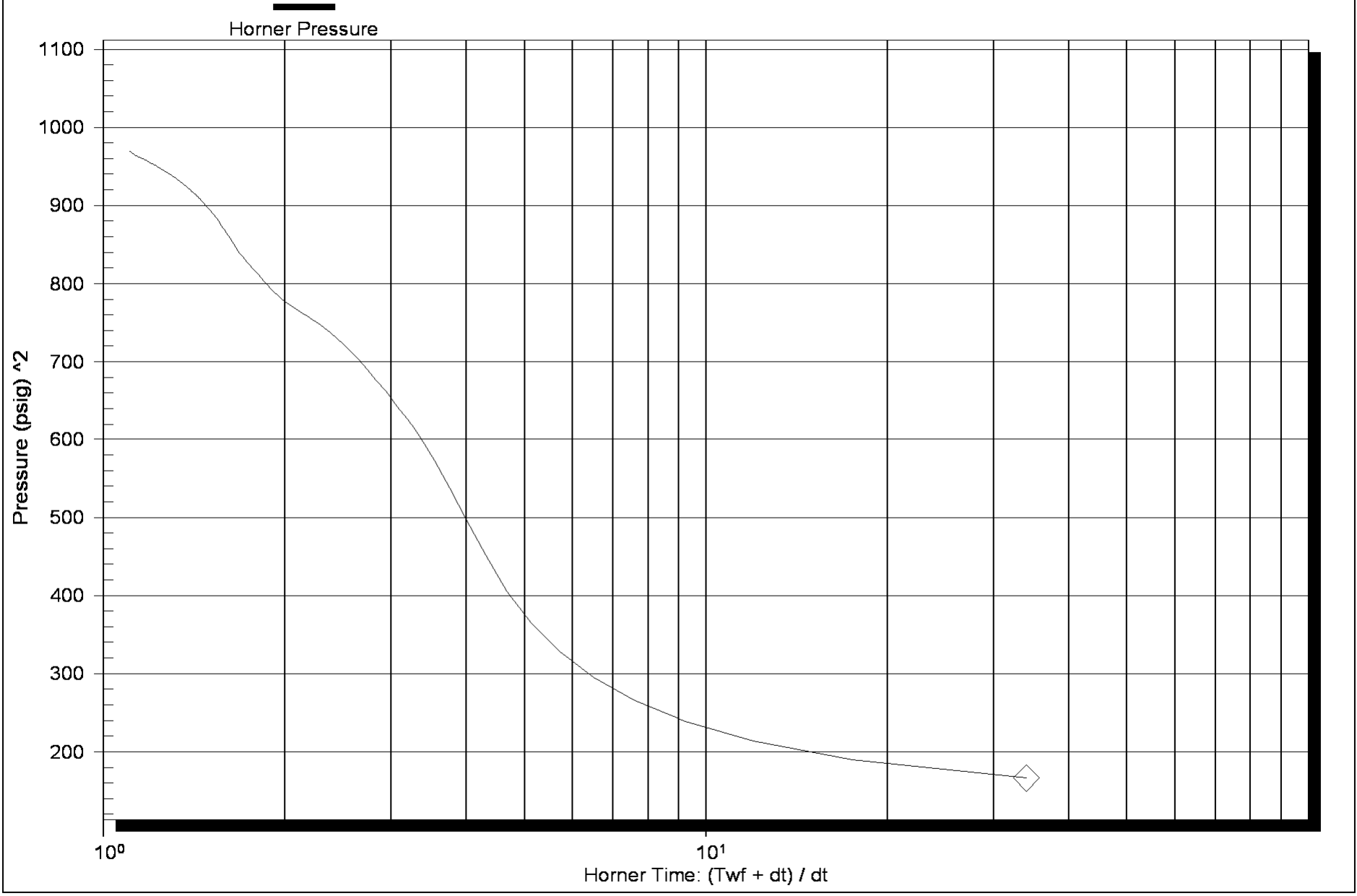
Recovery Comments: Sampler Analysis=Gas=1.8CF Oil=3200ML Pressure=700LBS



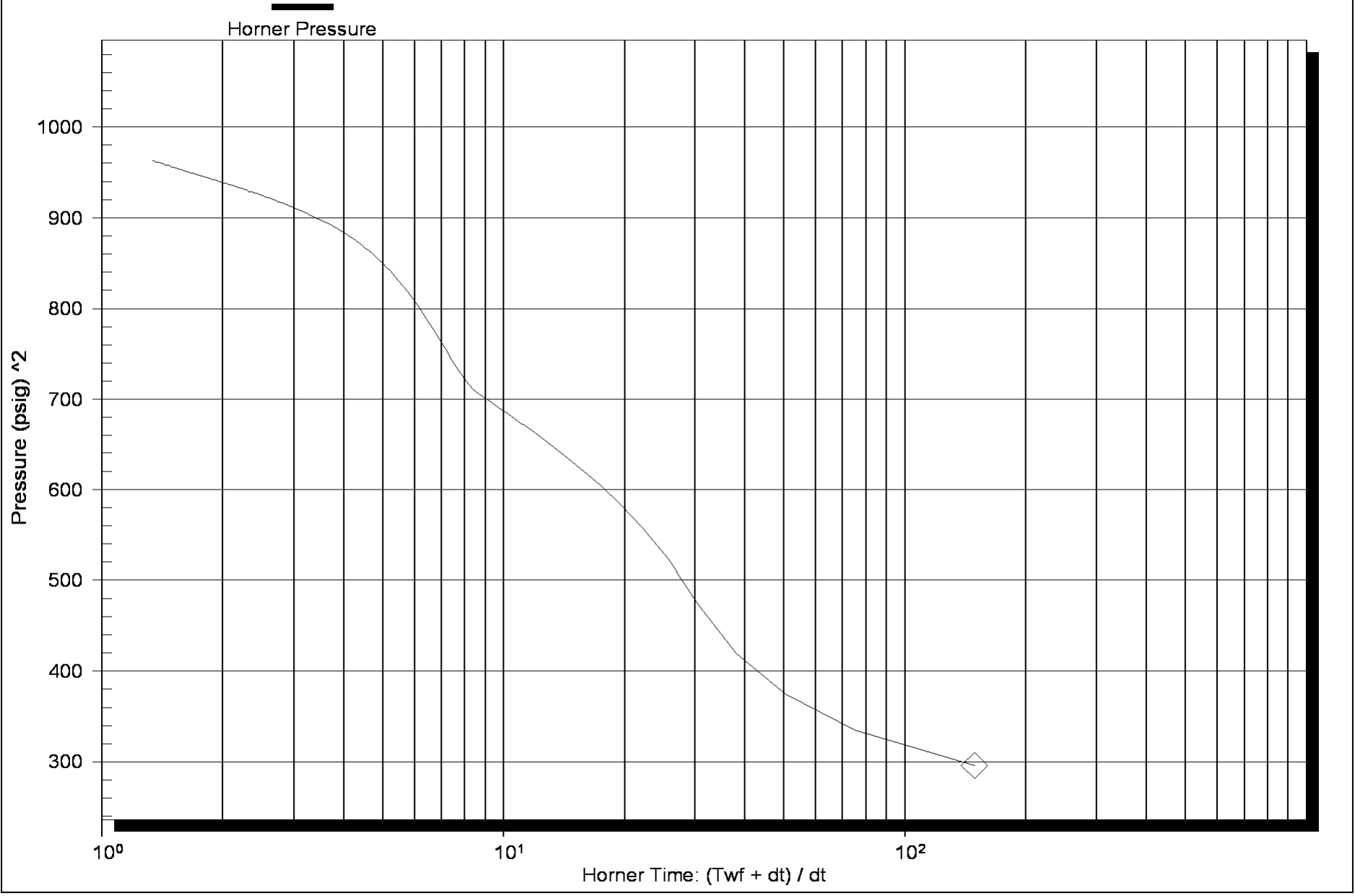




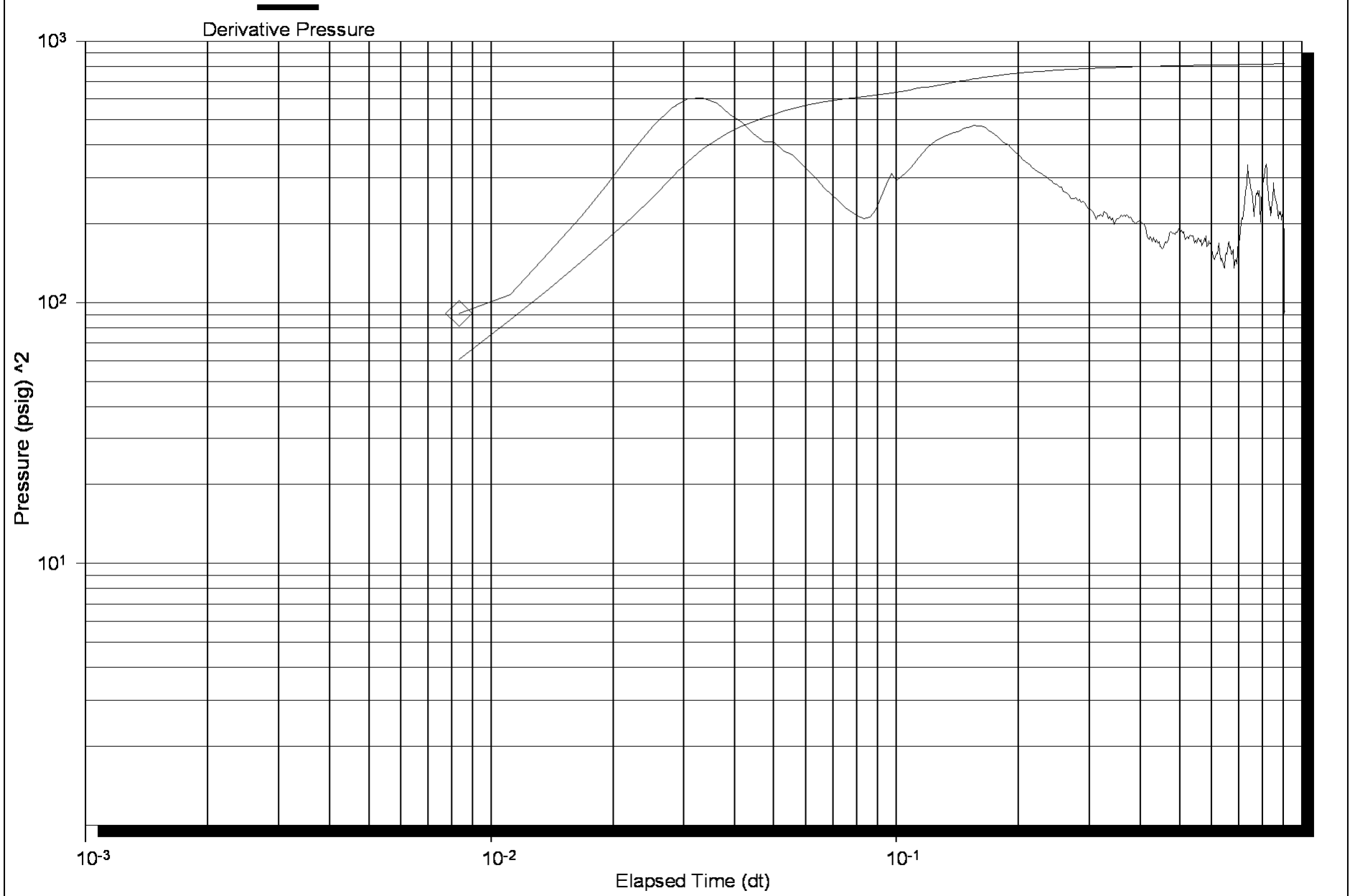
Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

