



DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop St. Ste. 700
Denver, Co
80202

ATTN: Clayton Camozzi

1-16-16/Rush

Wagner Trust 2-1

Start Date: 2010.11.01 @ 00:16:03

End Date: 2010.11.01 @ 08:32:33

Job Ticket #: 40323 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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Job Ticket: 40323 **DST#: 2**
Test Start: 2010.11.01 @ 00:16:03

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:59:03

Time Test Ended: 08:32:33

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3238.00 ft (KB) To 3272.00 ft (KB) (TVD)

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3272.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 8647

Inside

Press @ Run Depth: 164.55 psig @ 3244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.01

End Date:

2010.11.01

Last Calib.: 2010.11.01

Start Time: 00:16:08

End Time:

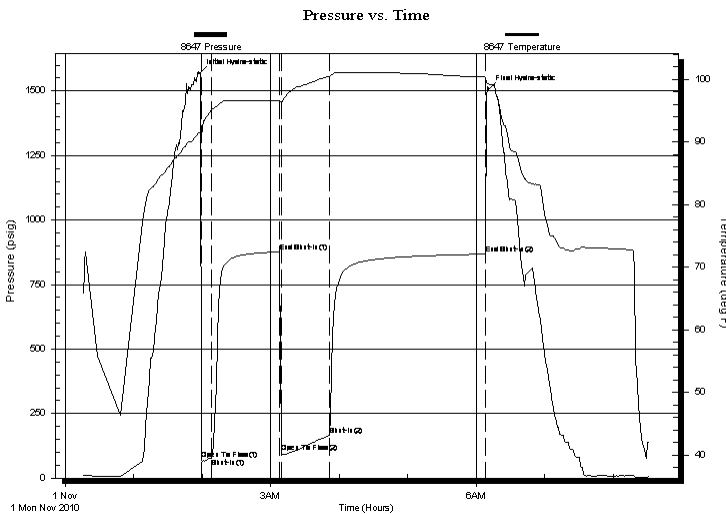
08:32:32

Time On Btm: 2010.11.01 @ 01:57:33

Time Off Btm: 2010.11.01 @ 06:11:03

TEST COMMENT: IFP - BOB 1 1/2 min
ISI - 6" blow back - died 11 min
FFP - BOB 30 sec
FSI - BOB 4 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.52	91.49	Initial Hydro-static
2	71.37	91.07	Open To Flow (1)
11	74.98	95.15	Shut-In(1)
70	876.34	96.61	End Shut-In(1)
72	101.48	96.25	Open To Flow (2)
114	164.55	100.45	Shut-In(2)
251	868.12	100.37	End Shut-In(2)
254	1506.39	99.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MW 95%W, 5%M	0.14
280.00	GMO 5%G, 75%O, 20%M	3.93
85.00	GHOCM 10%G, 40%O, 50%M	1.19
0.00	1555 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: 3218.00 ft	Diameter: 3.80 inches	Volume: 45.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3238.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
recorder	0.00	8647		3202.00	
pup joint	5.00			3207.00	
Change Over Sub	1.00			3208.00	
Shut In Tool	5.00			3213.00	
Sampler	3.00			3216.00	
Hydraulic tool	5.00			3221.00	
Jars	5.00			3226.00	
Safety Joint	2.00			3228.00	
Packer	5.00			3233.00	36.00 Bottom Of Top Packer
Packer	5.00			3238.00	
Stubb	1.00			3239.00	
Perforations	5.00			3244.00	
Recorder	0.00	8647	Inside	3244.00	
Recorder	0.00	8365	Outside	3244.00	
Perforations	25.00			3269.00	
Bullnose	3.00			3272.00	34.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



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FLUID SUMMARY

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Mud and Cushion Information

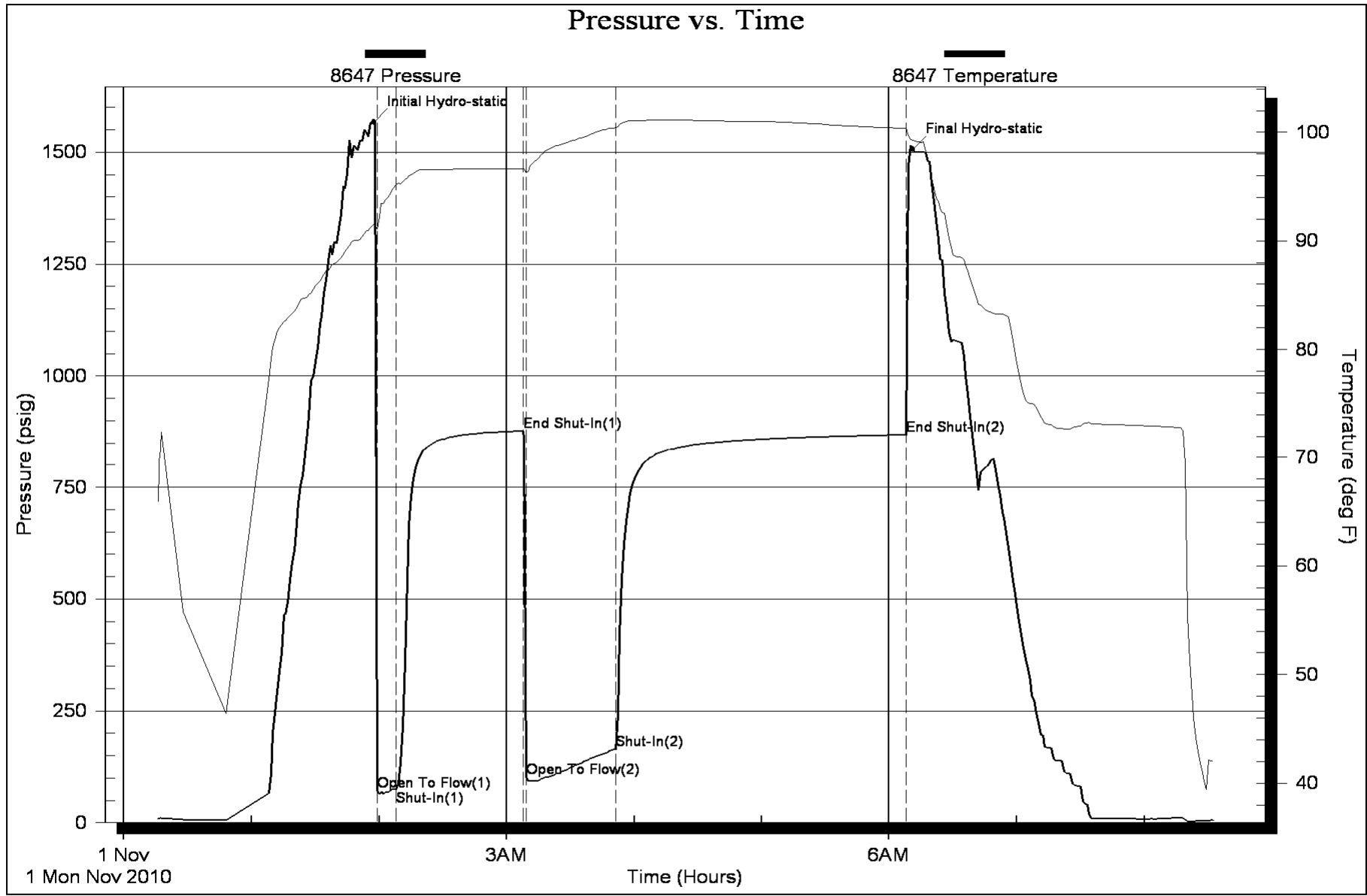
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	40000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6100.00 ppm			
Filter Cake: inches			

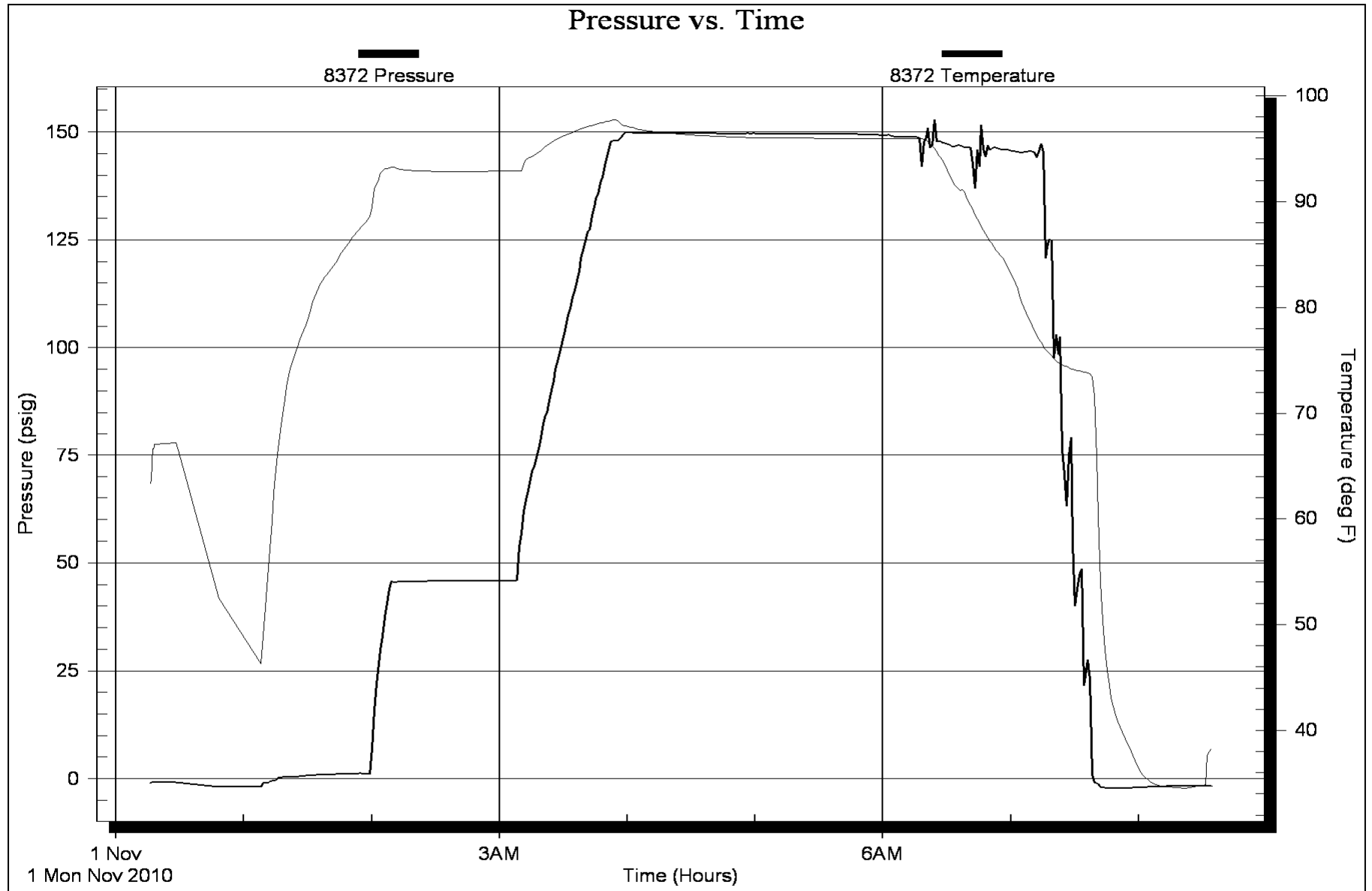
Recovery Information

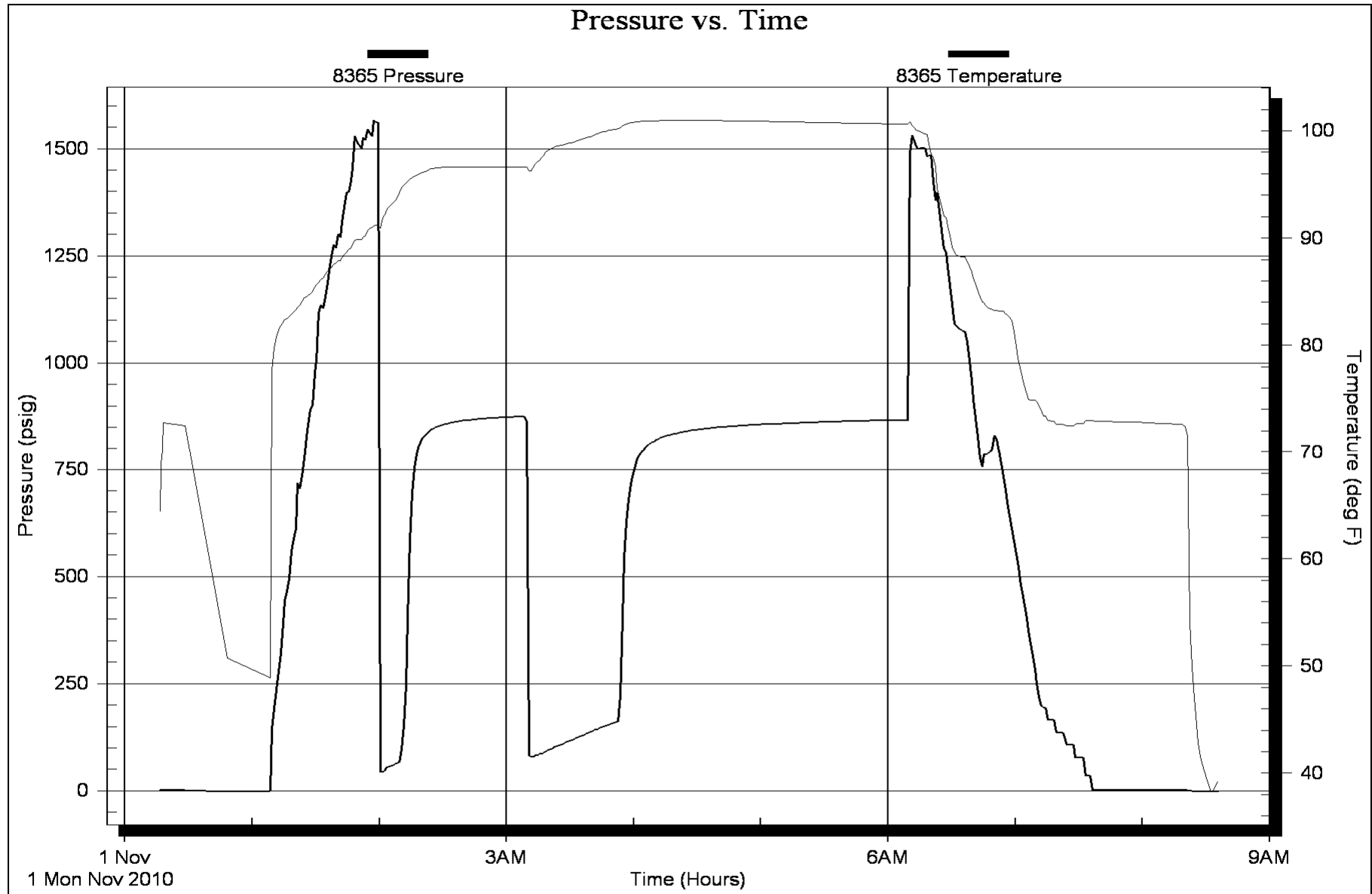
Recovery Table

Length ft	Description	Volume bbl
10.00	MW 95%W, 5%M	0.140
280.00	GMO 5%G, 75%O, 20%M	3.928
85.00	GHOCM 10%G, 40%O, 50%M	1.192
0.00	1555 GIP	0.000

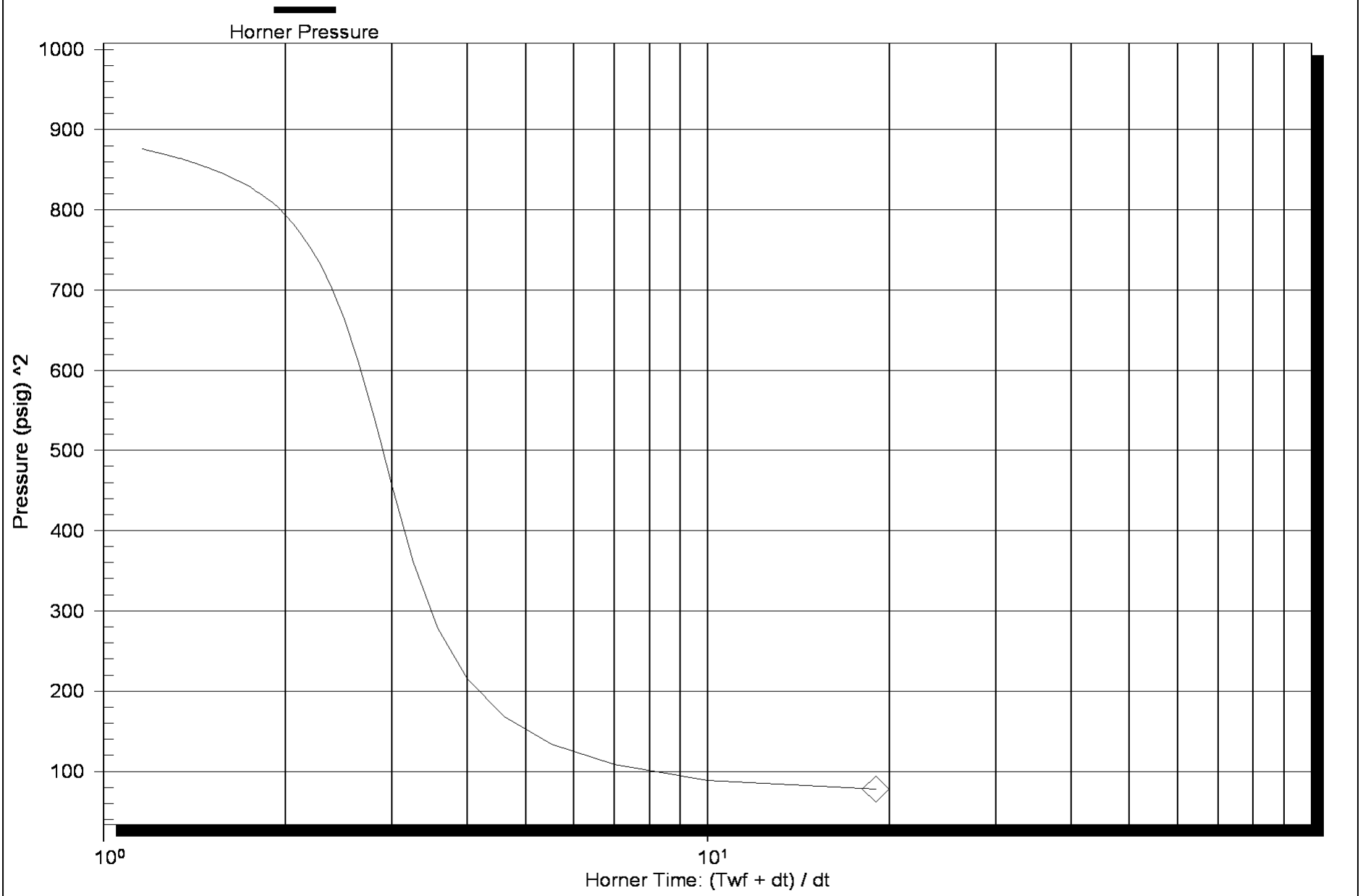
Total Length: 375.00 ft Total Volume: 5.260 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



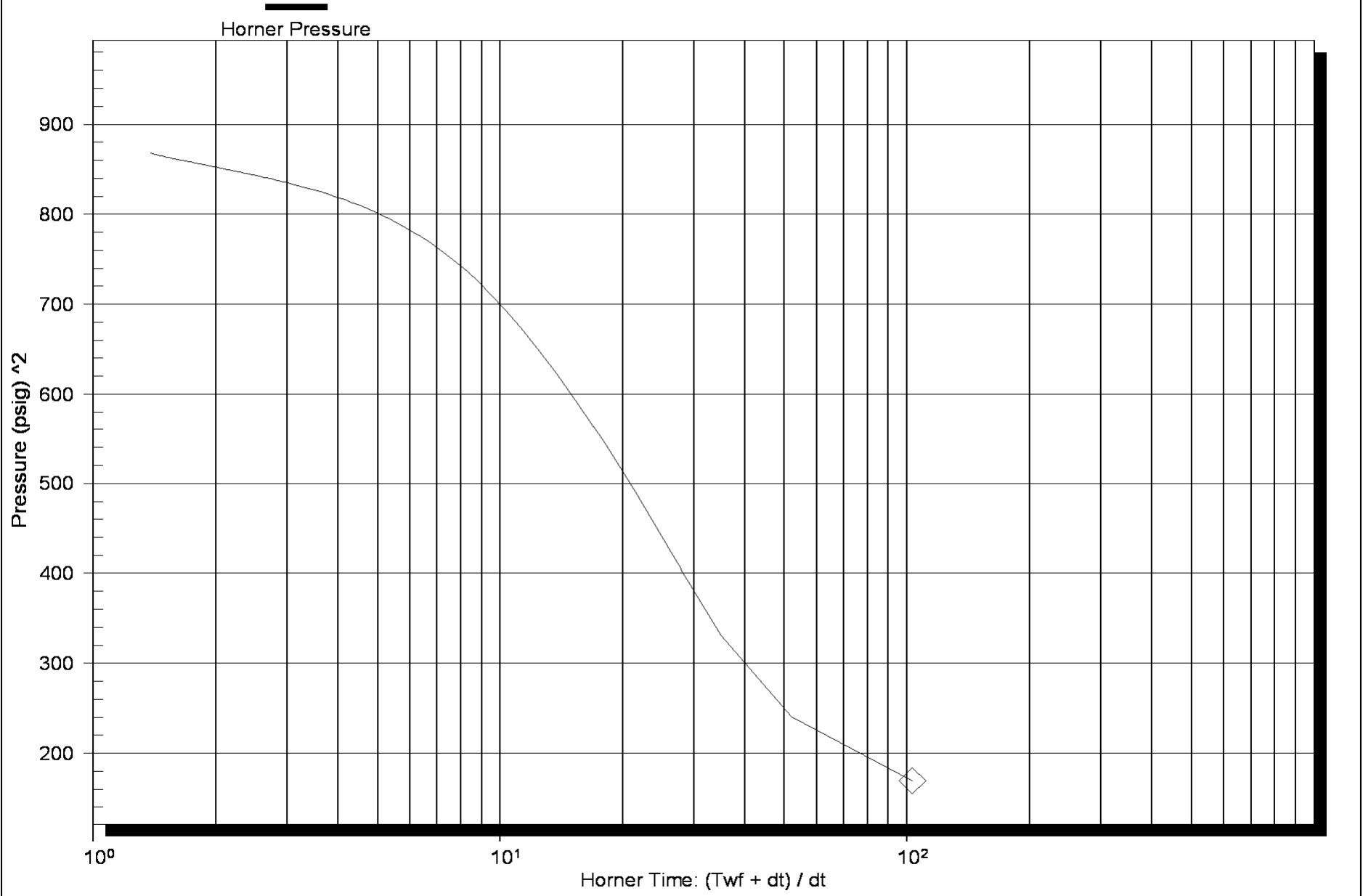




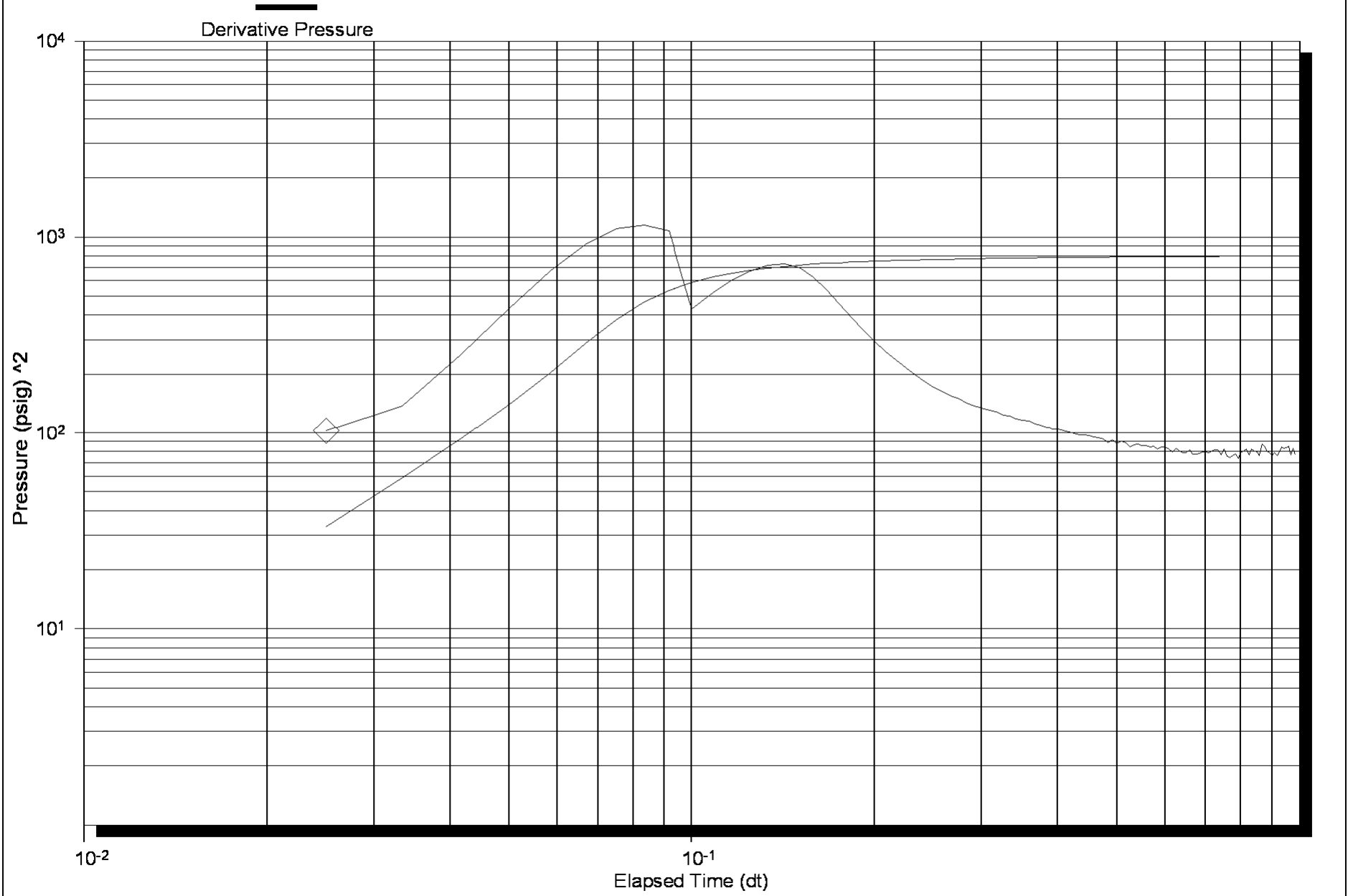
Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

