



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Assoc. Inc.**

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

7-16s-16w Rush Ks.

Stramel #1-7

Start Date: 2010.12.17 @ 06:57:23

End Date: 2010.12.17 @ 14:49:23

Job Ticket #: 039294 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Test Start: 2010.12.17 @ 06:57:23

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:38:38

Time Test Ended: 14:49:23

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 3531.00 ft (KB) To 3545.00 ft (KB) (TVD)

Reference Elevations: 1949.00 ft (KB)

Total Depth: 3545.00 ft (KB) (TVD)

1942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Inside

Press @ Run Depth: 1164.25 psig @ 3532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.17 End Date: 2010.12.17

Last Calib.: 2010.12.17

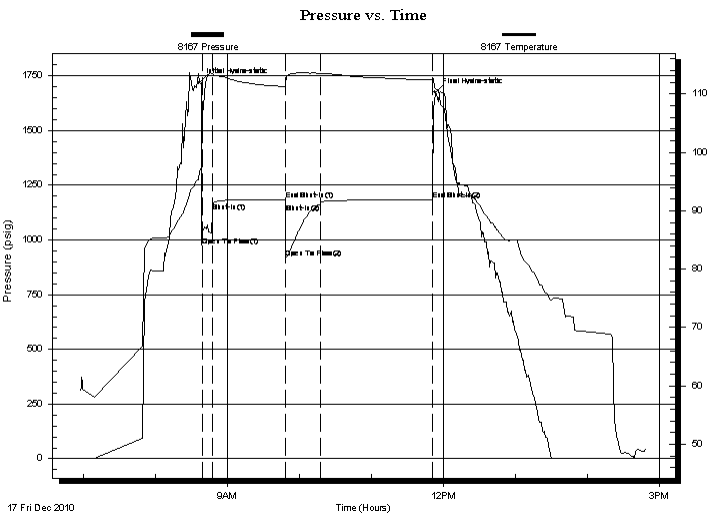
Start Time: 06:57:28 End Time: 14:49:22

Time On Btm: 2010.12.17 @ 08:36:23

Time Off Btm: 2010.12.17 @ 11:53:08

TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs.
IS: Weak blow . 3/4".
FF: Strong blow . B.O.B. in 20 secs.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.74	96.69	Initial Hydro-static
3	975.39	97.60	Open To Flow (1)
11	1126.61	113.41	Shut-In(1)
72	1183.78	111.27	End Shut-In(1)
72	916.72	111.23	Open To Flow (2)
101	1164.25	113.52	Shut-In(2)
195	1183.62	112.44	End Shut-In(2)
197	1675.35	110.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MW 16% m 84% w	3.09
2970.00	SW /Rw .28ohms @51 deg.	41.66

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2010.12.17 @ 06:57:23

Tool Information

Drill Pipe:	Length: 3510.00 ft	Diameter: 3.80 inches	Volume: 49.24 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 49.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3531.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3502.00	
Shut in tool	5.00			3507.00	
Sampler	2.00			3509.00	
HMV	5.00			3514.00	
Jars	5.00			3519.00	
Safety Joint	3.00			3522.00	
Packer	4.00			3526.00	30.00 Bottom Of Top Packer
Packer	5.00			3531.00	
Stubb	1.00			3532.00	
Recorder	0.00	8167	Inside	3532.00	
Recorder	0.00	8370	Outside	3532.00	
Perforations	8.00			3540.00	
Bullnose	5.00			3545.00	14.00 Bottom Packers & Anchor

Total Tool Length: 44.00



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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:

35000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	MW 16% m 84% w	3.086
2970.00	SW /Rw .28ohms @51 deg.	41.661

Total Length: 3190.00 ft Total Volume: 44.747 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

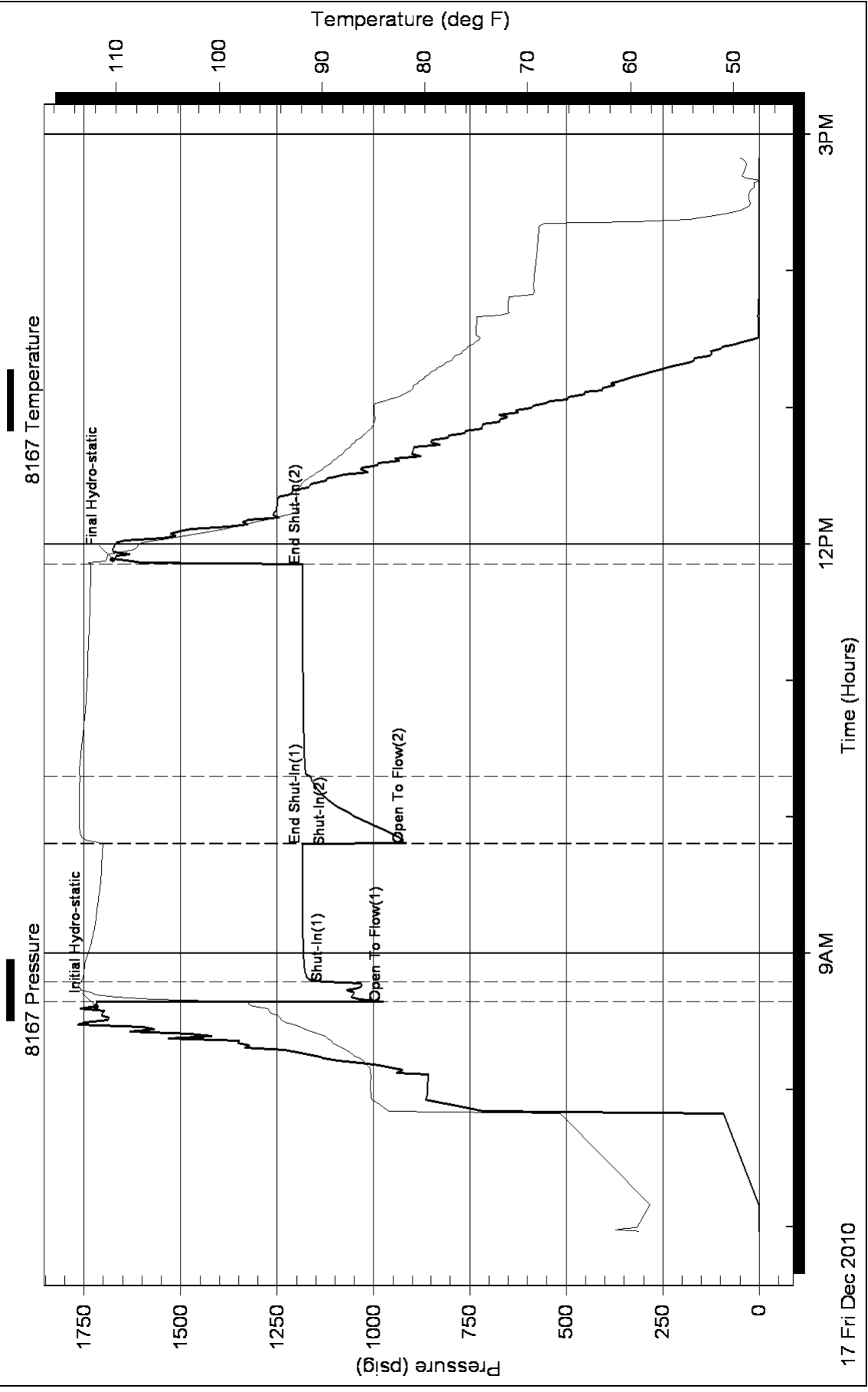
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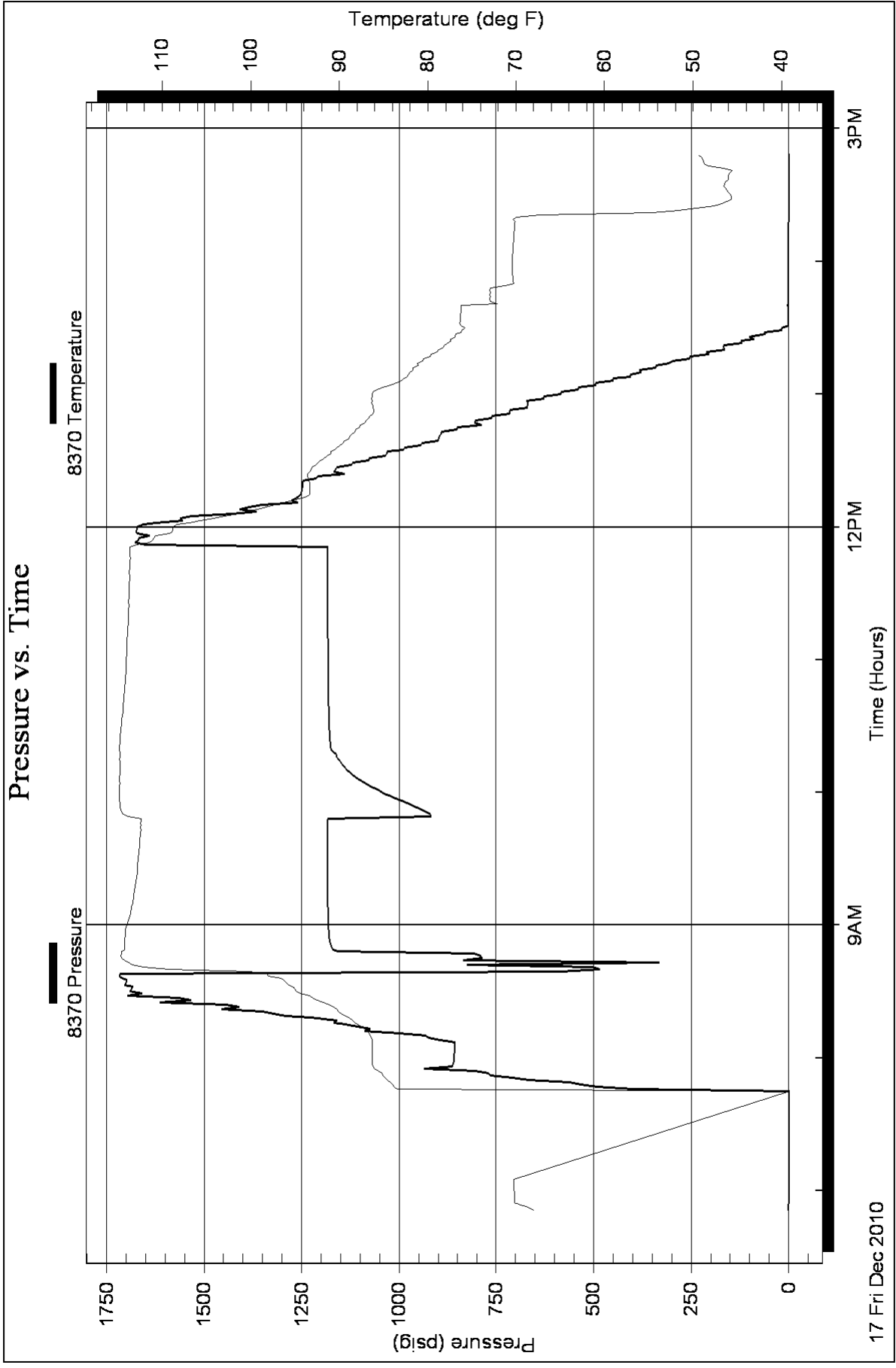
Laboratory Name:

Laboratory Location:

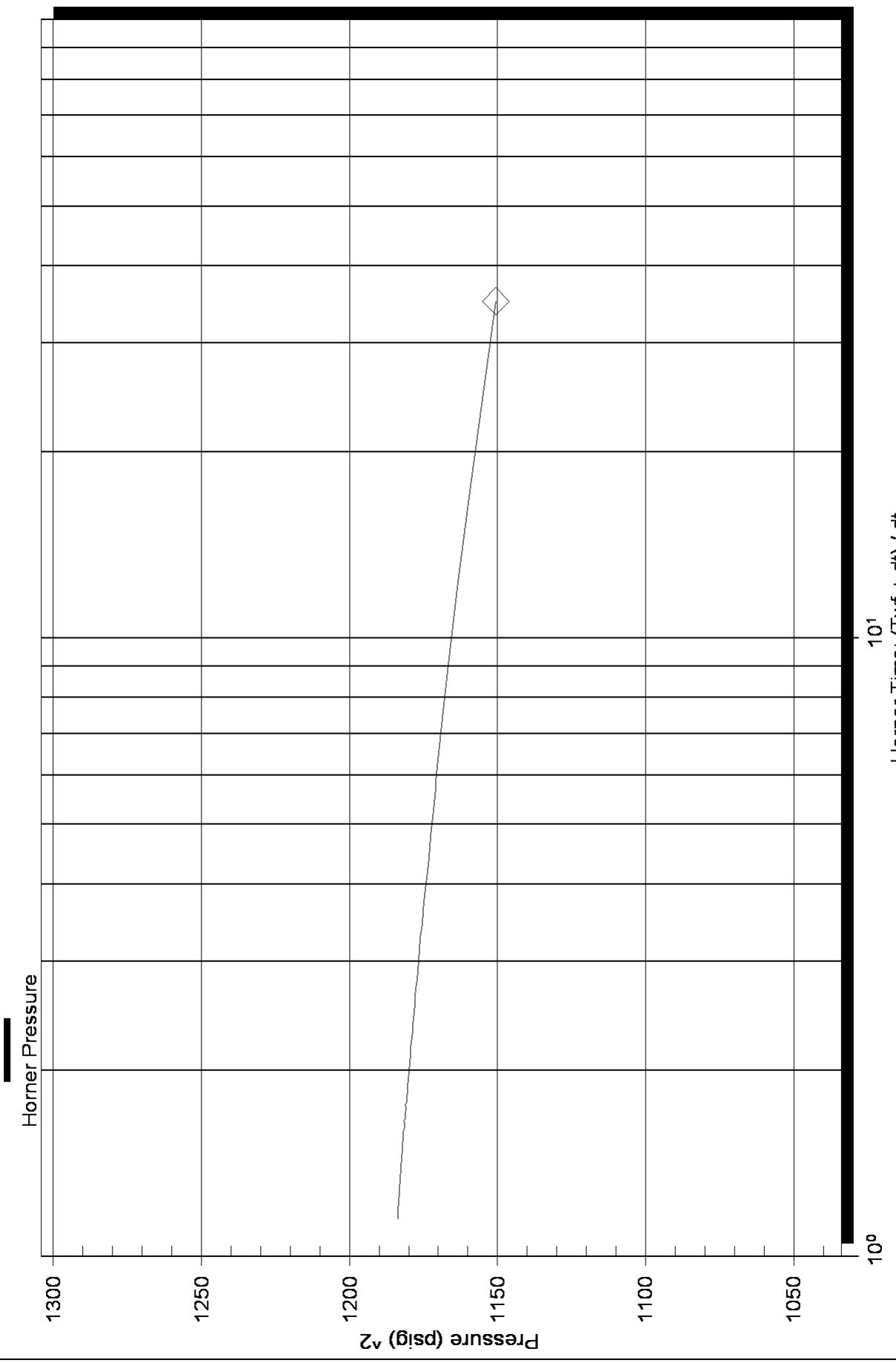
Recovery Comments: SAMPLER DATA: 2300 ML. of water @ 1160 psi

Pressure vs. Time

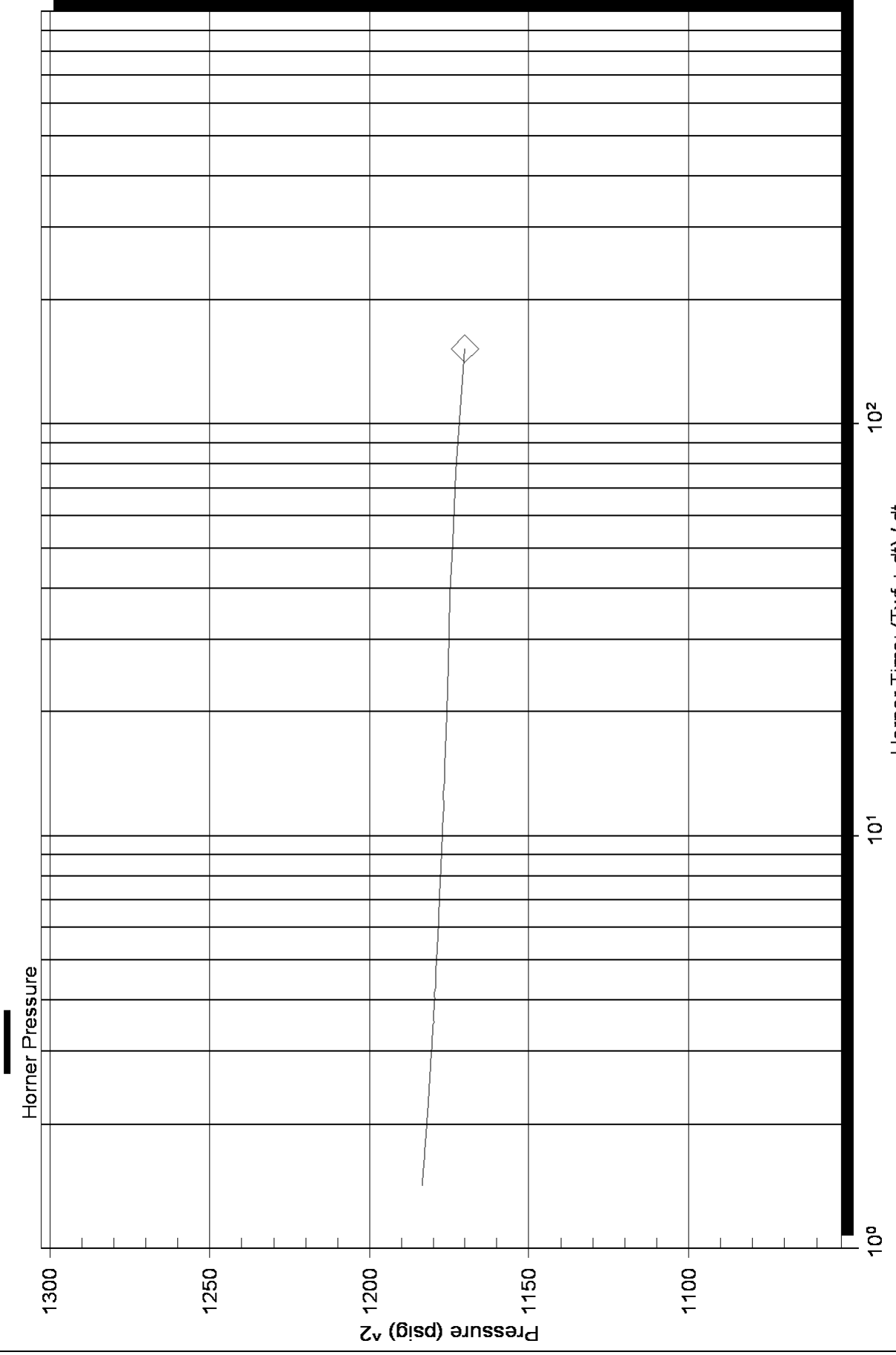




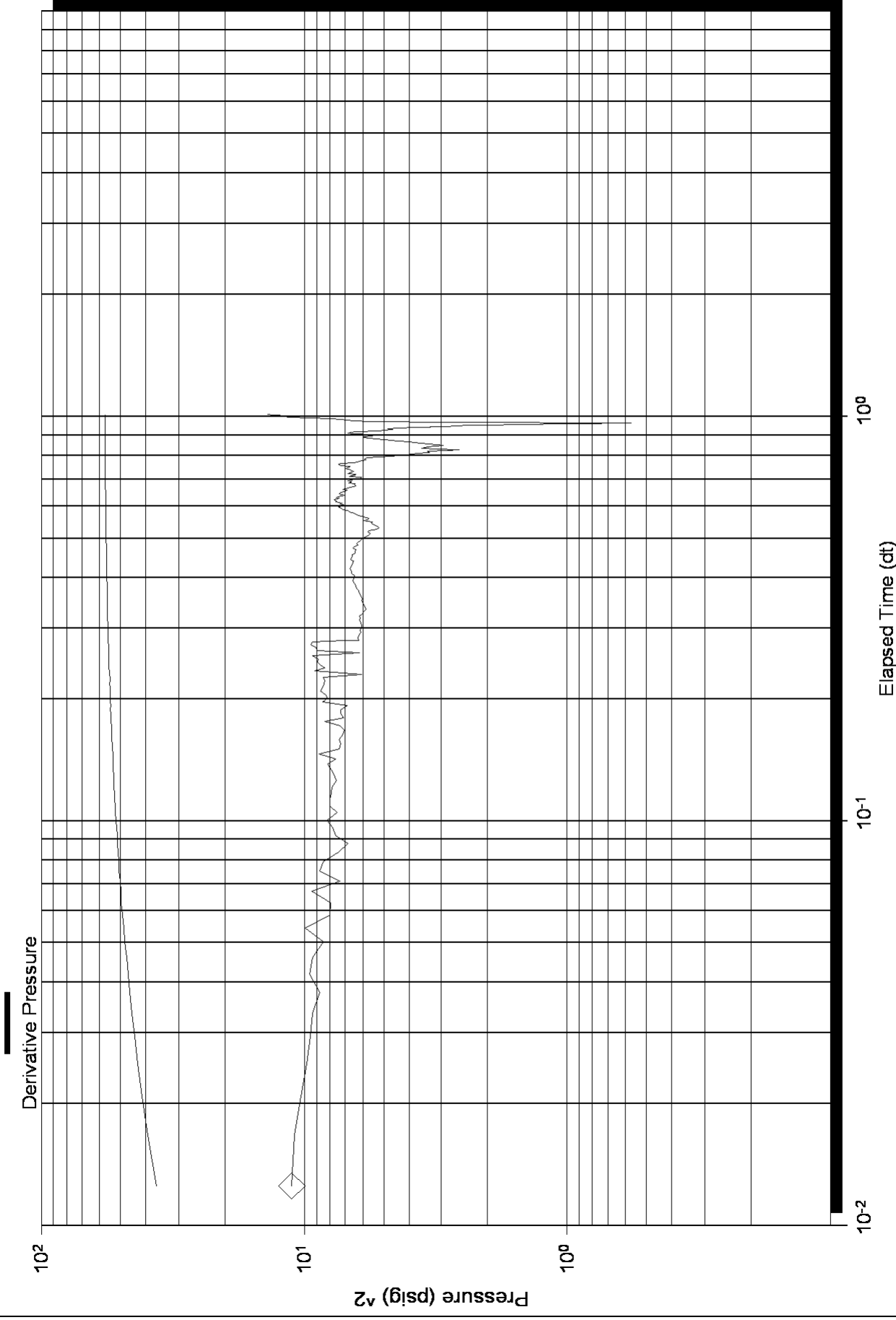
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

