



DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

23-17s-12w Barton

Schiller #1-23

Start Date: 2010.07.29 @ 07:09:05

End Date: 2010.07.29 @ 13:43:05

Job Ticket #: 36813 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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Samuel Gary Jr. & Assoc Inc

Schiller #1-23

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Denver Co 80202

23-17s-12w Barton

ATTN: Clayton Camozzi

Job Ticket: 36813

DST#: 2

Test Start: 2010.07.29 @ 07:09:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:30:05

Time Test Ended: 13:43:05

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3350.00 ft (KB) To 3367.00 ft (KB) (TVD)

Reference Elevations: 1874.00 ft (KB)

Total Depth: 3367.00 ft (KB) (TVD)

1866.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press @ Run Depth: 394.84 psig @ 3351.02 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.29

End Date:

2010.07.29

Last Calib.:

2010.07.29

Start Time: 07:09:10

End Time:

13:43:04

Time On Btm:

2010.07.29 @ 08:22:35

Time Off Btm:

2010.07.29 @ 11:32:05

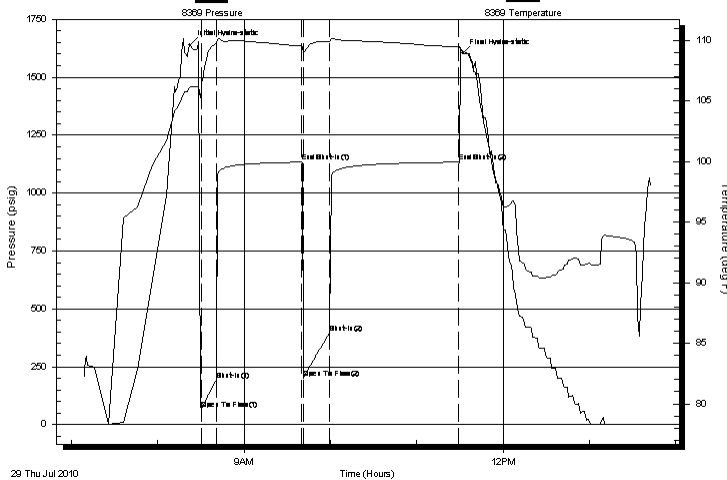
TEST COMMENT: IFP-strg bl in 2min

ISI-No blow

FF-BOB in 3min

FSI-No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.54	106.20	Initial Hydro-static
8	66.05	105.96	Open To Flow (1)
18	193.33	109.71	Shut-In(1)
78	1133.41	109.52	End Shut-In(1)
79	199.70	109.02	Open To Flow (2)
97	394.84	109.90	Shut-In(2)
187	1133.20	109.47	End Shut-In(2)
190	1603.81	109.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MOCW 40%O 40%W 20%M	0.84
60.00	VSOCW 5%O 95%W	0.84
800.00	WCO 5%G 55%O 40%W	11.22

Gas Rates

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



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Total Depth: 3367.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Reference Elevations: 1874.00 ft (KB)

1866.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: psig @ 3351.01 ft (KB)

Start Date: 2010.07.29

End Date: 2010.07.29

Capacity: 8000.00 psig

Last Calib.: 2010.07.29

Start Time: 07:12:03

End Time: 13:45:57

Time On Btm:

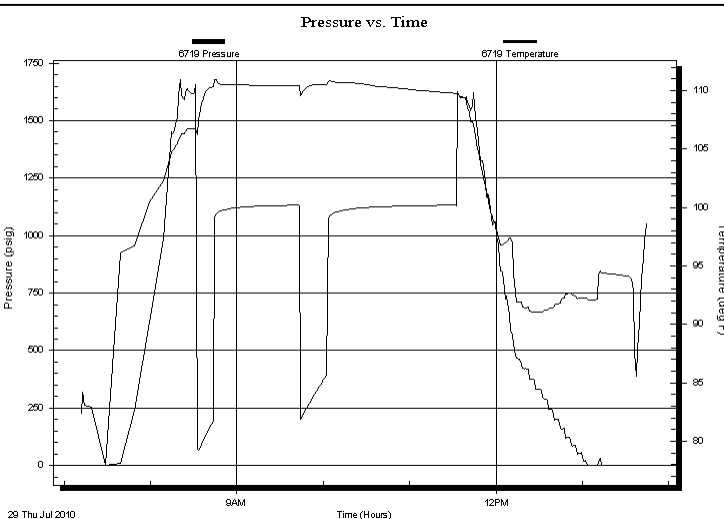
Time Off Btm:

TEST COMMENT: IFP-strg bl in 2min

ISI-No blow

FF-BOB in 3min

FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MOCW 40%O 40%W 20%M	0.84
60.00	VSOCW 5%O 95%W	0.84
800.00	WCO 5%G 55%O 40%W	11.22

Gas Rates

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



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TOOL DIAGRAM

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DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.07.29 @ 07:09:05

Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 bbl	Tool Weight: 2200.00 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: 42000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3350.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.02 ft			
Tool Length:	45.02 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			3323.00	
Shut In Tool	5.00			3328.00	
Hydraulic tool	5.00			3333.00	
Jars	5.00			3338.00	
Safety Joint	2.00			3340.00	
Packer	5.00			3345.00	28.00 Bottom Of Top Packer
Packer	5.00			3350.00	
Stubb	1.00			3351.00	
Recorder	0.01	6719	Inside	3351.01	
Recorder	0.01	8369	Outside	3351.02	
Perforations	13.00			3364.02	
Bullnose	3.00			3367.02	17.02 Bottom Packers & Anchor

Total Tool Length: 45.02



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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: 54.00 sec/qt
Water Loss: 9.17 in³
Resistivity: ohm.m
Salinity: 5900.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 33 deg API
Water Salinity: 18000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MOCW 40%O 40%W 20%M	0.842
60.00	VSOCW 5%O 95%W	0.842
800.00	WCO 5%G 55%O 40%W	11.222

Total Length: 920.00 ft Total Volume: 12.906 bbl

Num Fluid Samples: 0

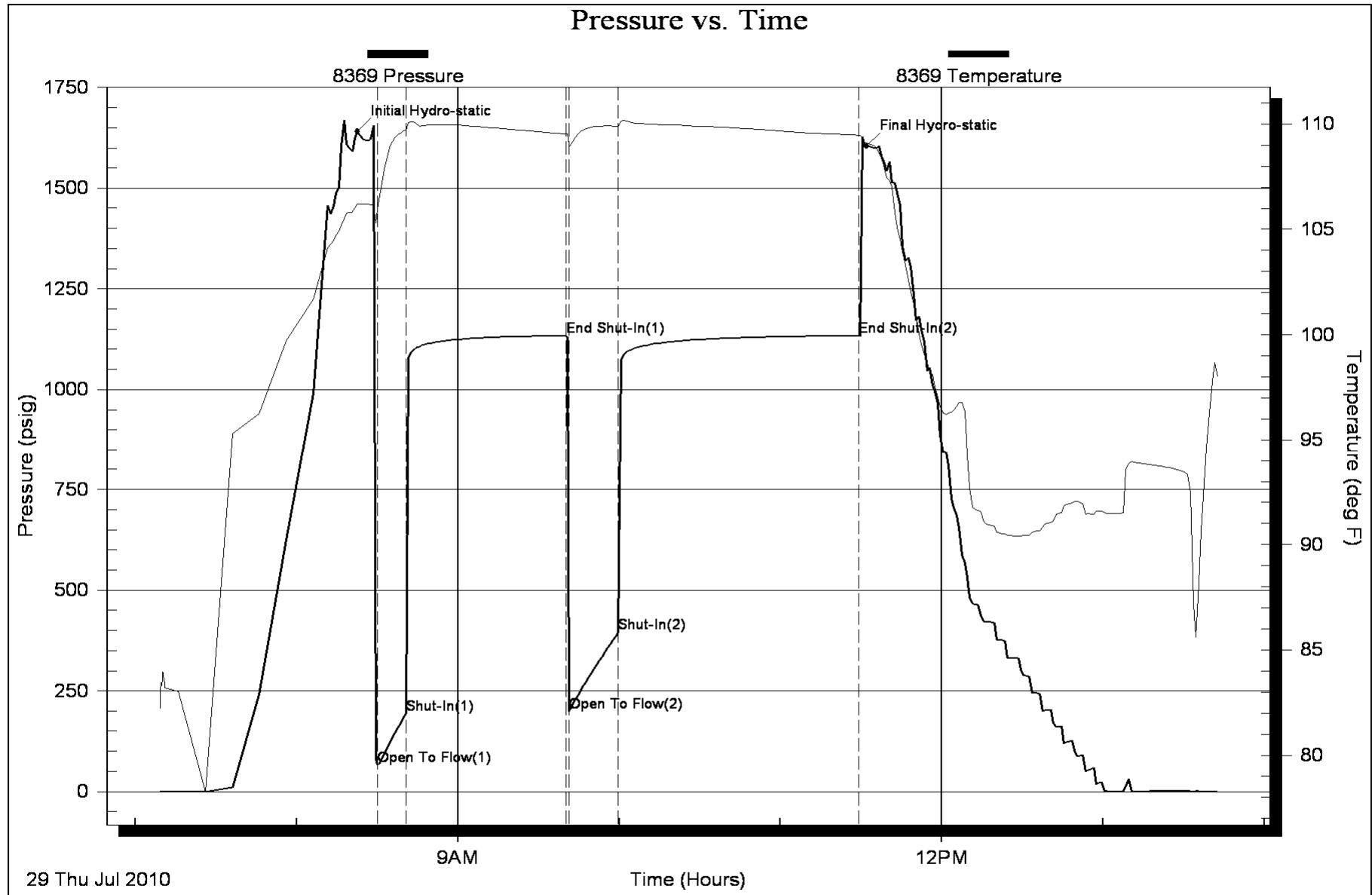
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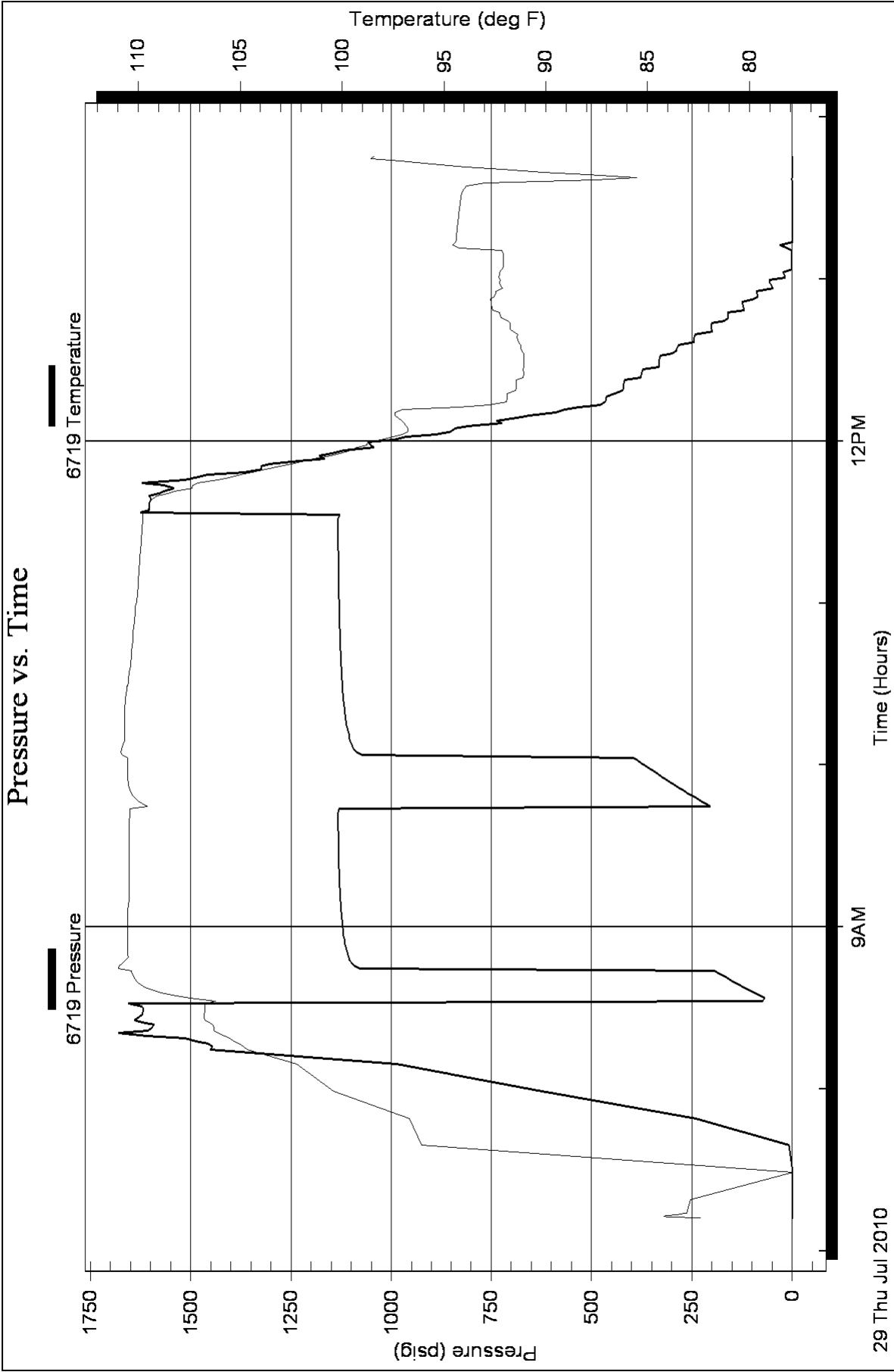
Serial #:

Laboratory Name:

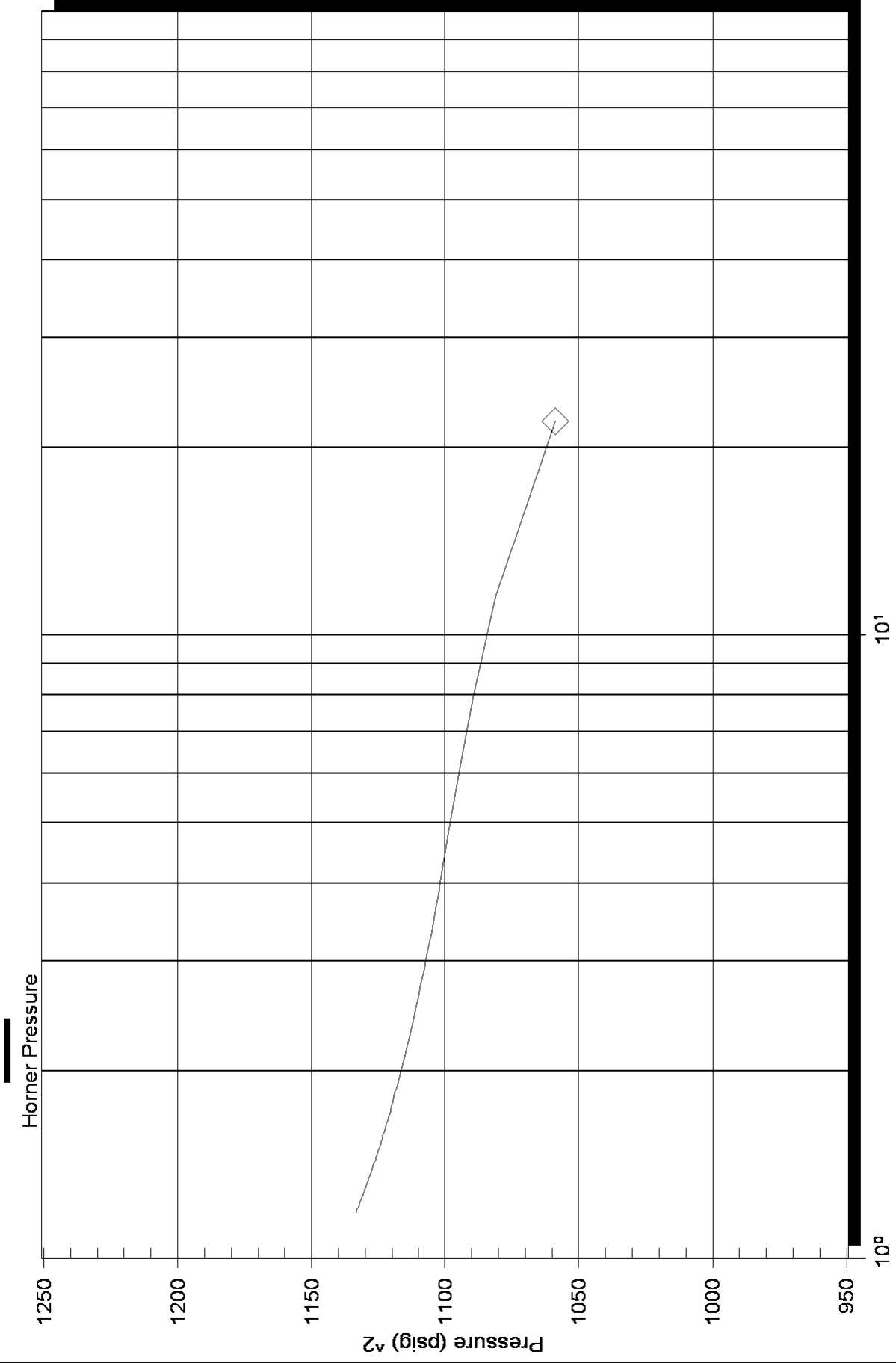
Laboratory Location:

Recovery Comments:

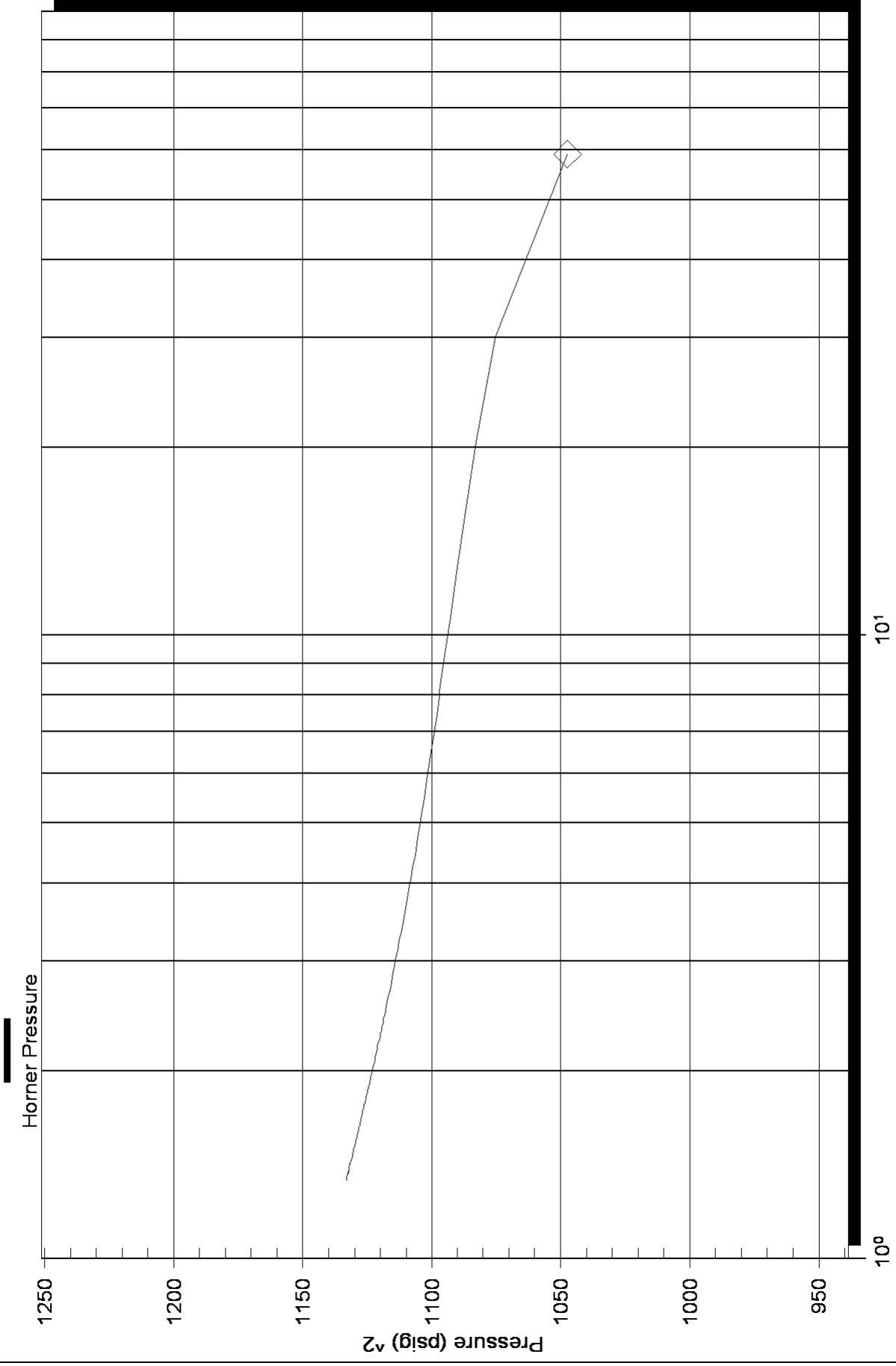




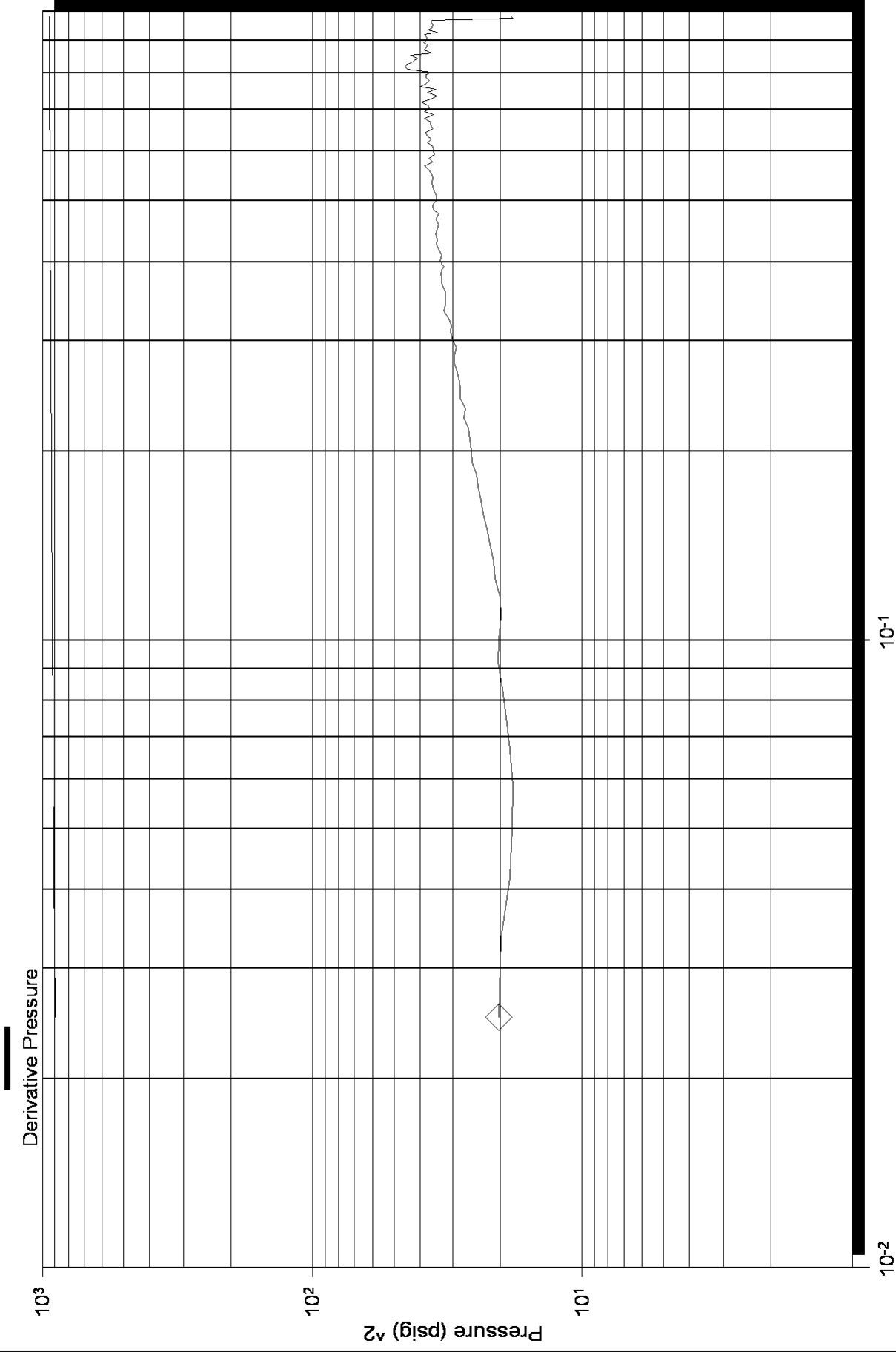
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

