



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Neil

26/16S/16W-Rush

Maier 1-26

Start Date: 2011.05.13 @ 17:38:27

End Date: 2011.05.14 @ 01:10:27

Job Ticket #: 42884 DST #: 3

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



TRILOBITE TESTING, INC.

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Test Start: 2011.05.13 @ 17:38:27

GENERAL INFORMATION:

Formation: **LKC "I&J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:53:47

Time Test Ended: 01:10:27

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3424.00 ft (KB) To 3455.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 32.92 psig @ 3427.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.13

End Date:

2011.05.14

Last Calib.: 2011.05.14

Start Time: 17:48:27

End Time:

01:10:27

Time On Btm: 2011.05.13 @ 18:52:27

Time Off Btm: 2011.05.13 @ 23:08:57

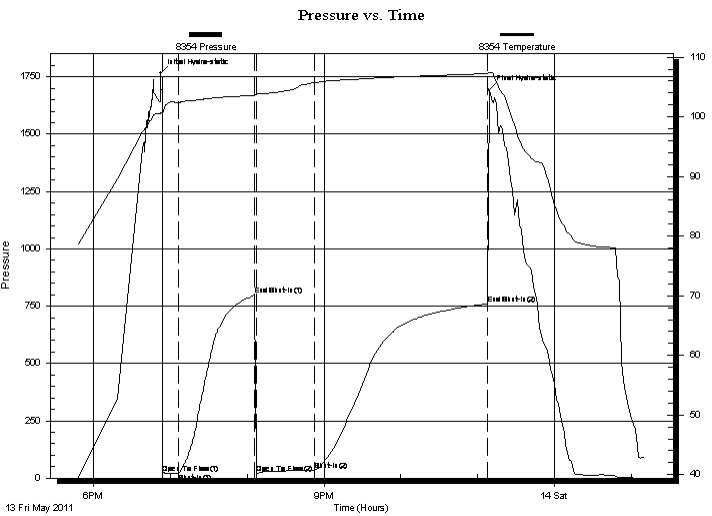
TEST COMMENT: IF-Fair building blow . Built to 8 inches.

ISI-No Return.

FF-Fair building blow . BOB in 14 minutes 40 seconds.

FSI-No Return.

Times- 10-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.37	100.64	Initial Hydro-static
2	22.68	100.03	Open To Flow (1)
14	22.92	102.41	Shut-In(1)
74	796.75	103.60	End Shut-In(1)
75	23.14	103.74	Open To Flow (2)
121	32.92	105.71	Shut-In(2)
256	759.75	107.27	End Shut-In(2)
257	1692.65	107.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	75%Mud/15%Gas/10%Oil	0.63
0.00	330' G.I.P.	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: 3410.00 ft	Diameter: 3.80 inches	Volume: 47.83 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 47.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3424.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3394.00	
Change Over Sub	1.00			3395.00	
Shut In Tool	5.00			3400.00	
Sampler	2.00			3402.00	
Hydraulic tool	5.00			3407.00	
Jars	5.00			3412.00	
Safety Joint	3.00			3415.00	
Packer	5.00			3420.00	30.00 Bottom Of Top Packer
Packer	4.00			3424.00	
Stubb	1.00			3425.00	
Perforations	2.00			3427.00	
Recorder	0.00	8354	Inside	3427.00	
Recorder	0.00	8520	Outside	3427.00	
Perforations	25.00			3452.00	
Bullnose	3.00			3455.00	31.00 Bottom Packers & Anchor

Total Tool Length: 61.00



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FLUID SUMMARY

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Test Start: 2011.05.13 @ 17:38:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	75%Mud/15%Gas/10%Oil	0.631
0.00	330' G.I.P.	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-1.5 cubic feet gas. 1800 ML Oil.
500# Pressure. 41 Gravity.



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GAS RATES

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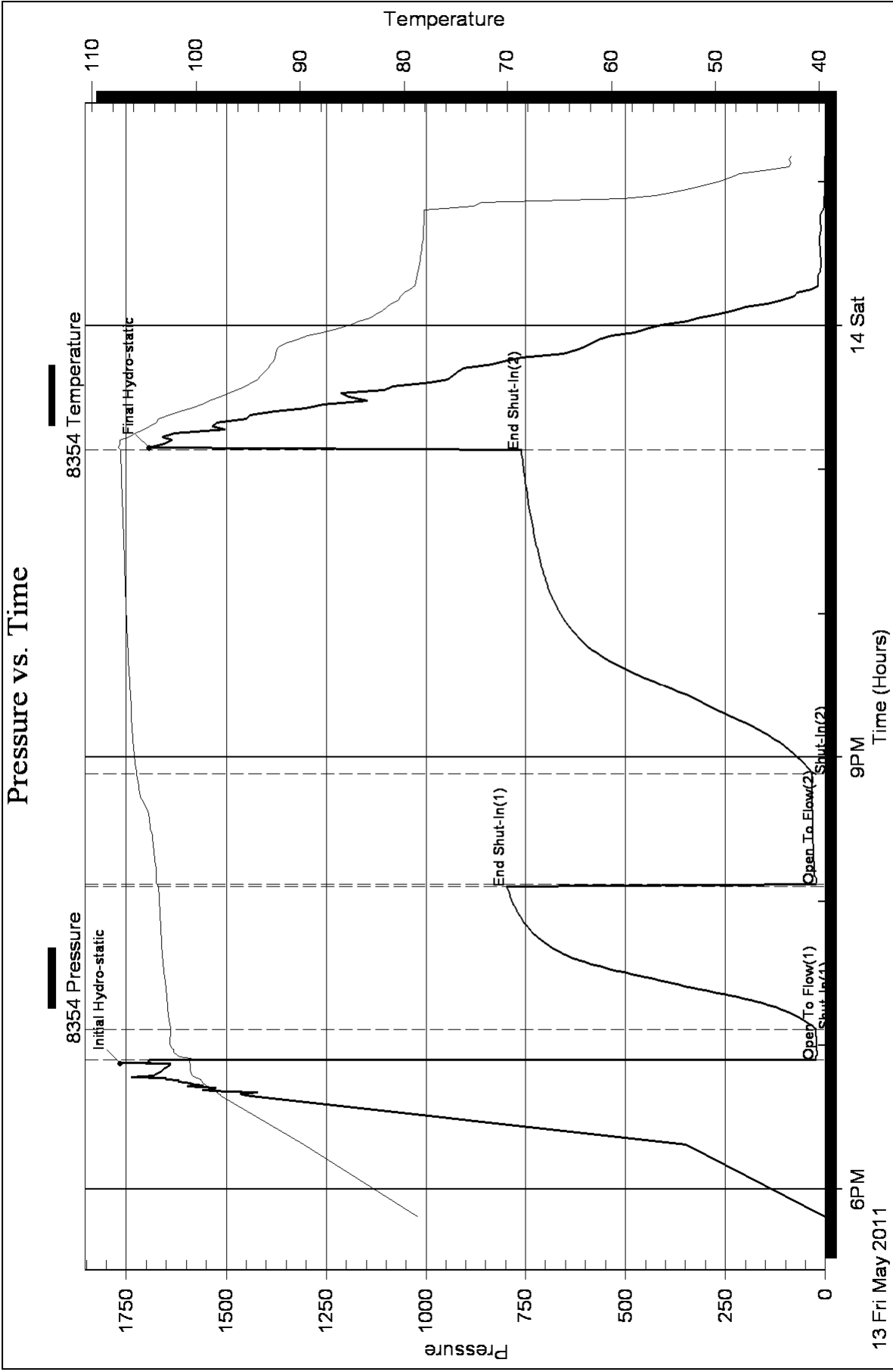
Test Start: 2011.05.13 @ 17:38:27

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00



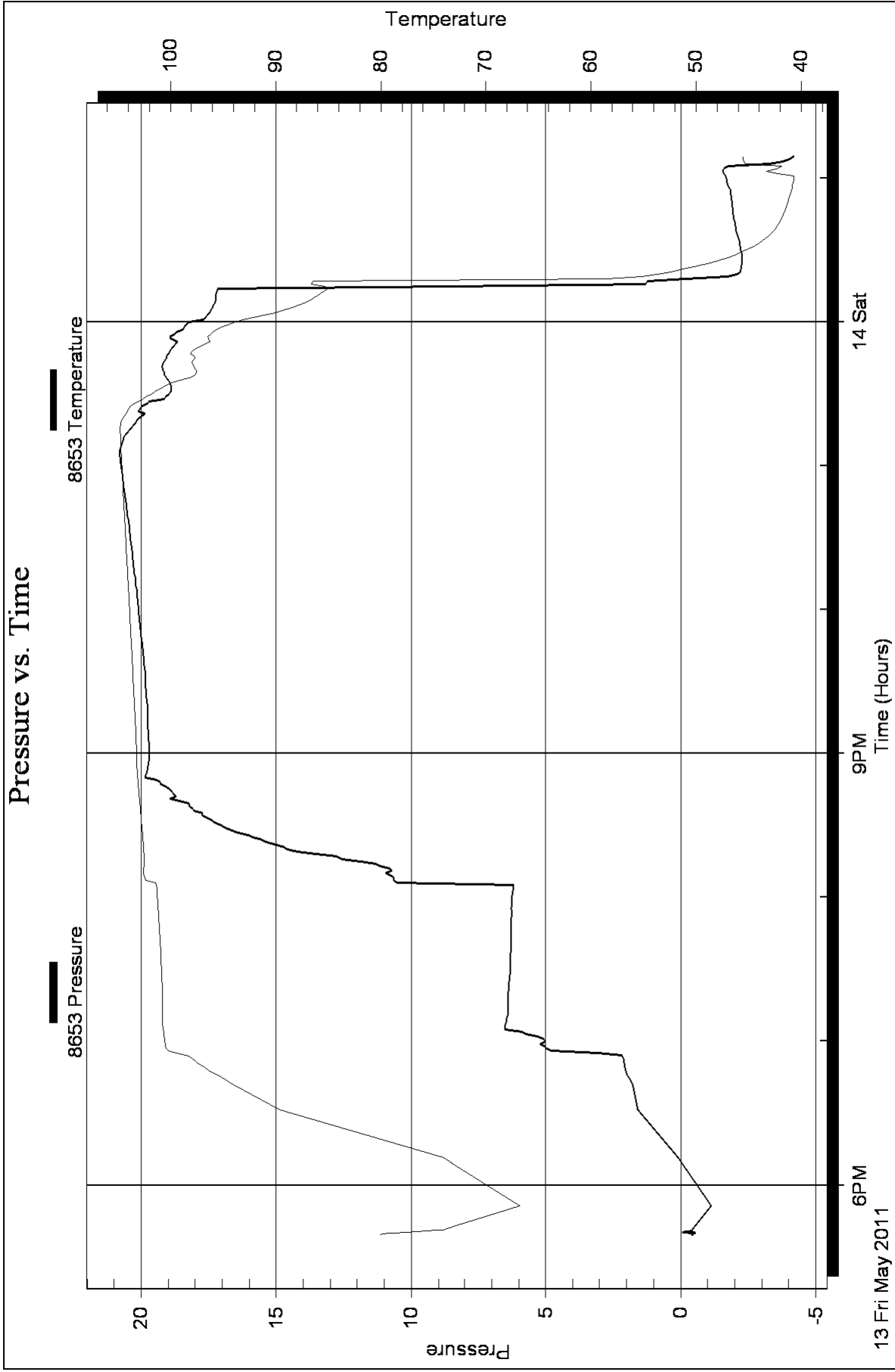
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Fluid

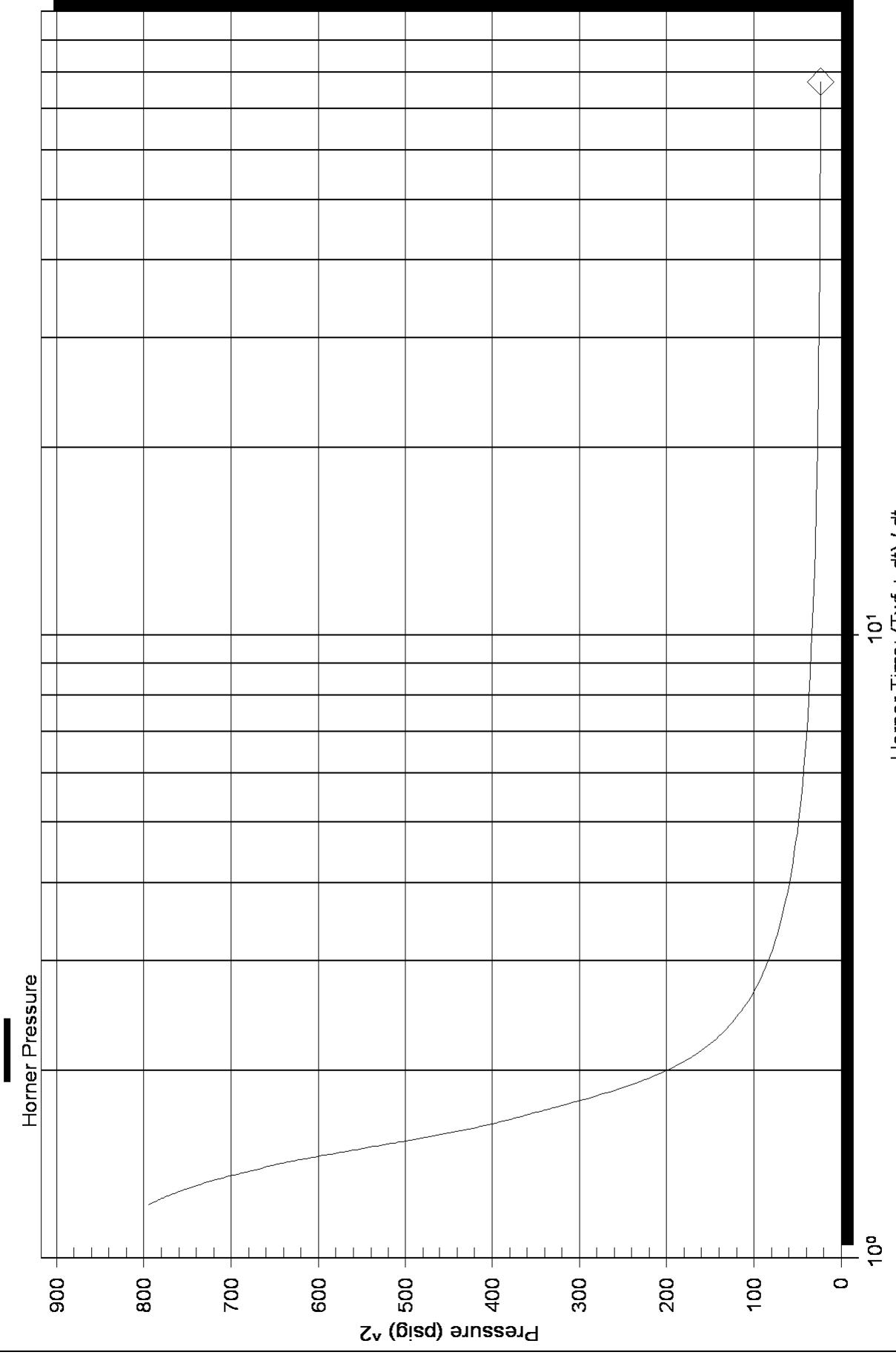
Samuel Gary Jr. & Associates Inc.

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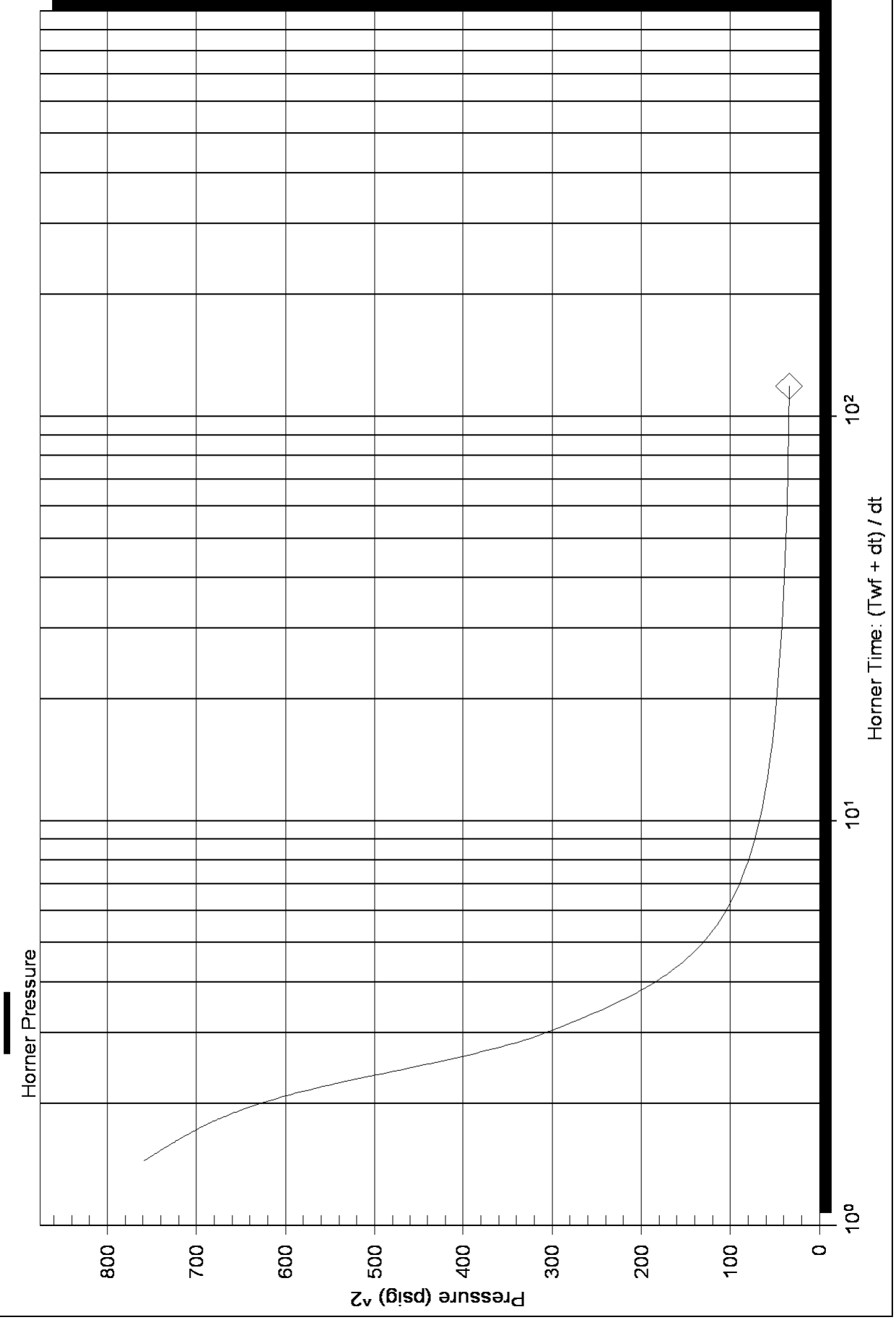
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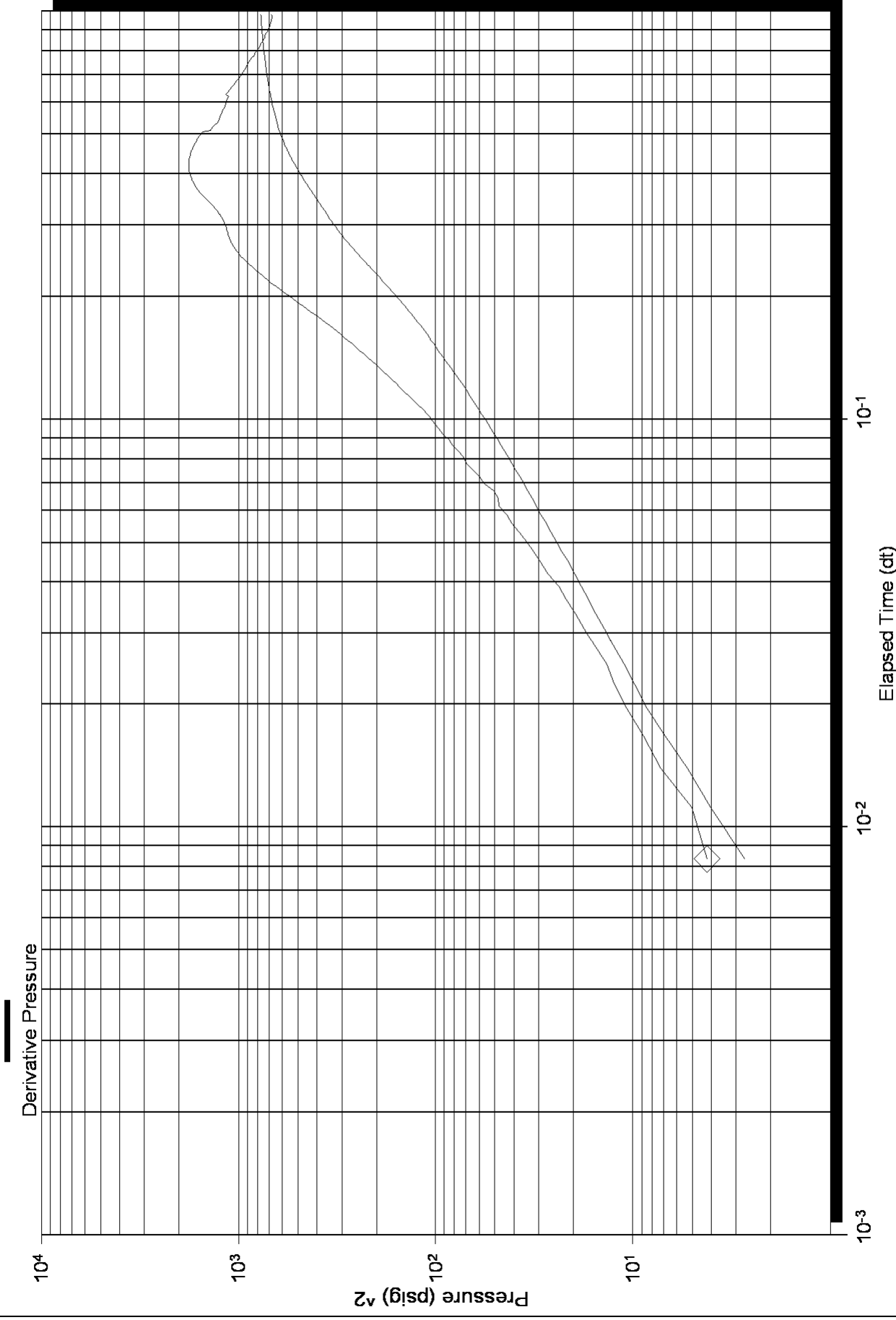
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

