



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Neil Sharp

25-16-16 Rush, Ks

Maier Family Trust 1-25

Start Date: 2011.09.26 @ 02:28:31

End Date: 2011.09.26 @ 09:06:01

Job Ticket #: 45151 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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TESTING, INC.**

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Test Start: 2011.09.26 @ 02:28:31

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:01

Time Test Ended: 09:06:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3416.00 ft (KB) To 3455.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 22.26 psig @ 3418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.26

End Date:

2011.09.26

Last Calib.:

2011.09.26

Start Time:

02:28:32

End Time:

09:06:01

Time On Btm:

2011.09.26 @ 04:12:31

Time Off Btm:

2011.09.26 @ 06:59:01

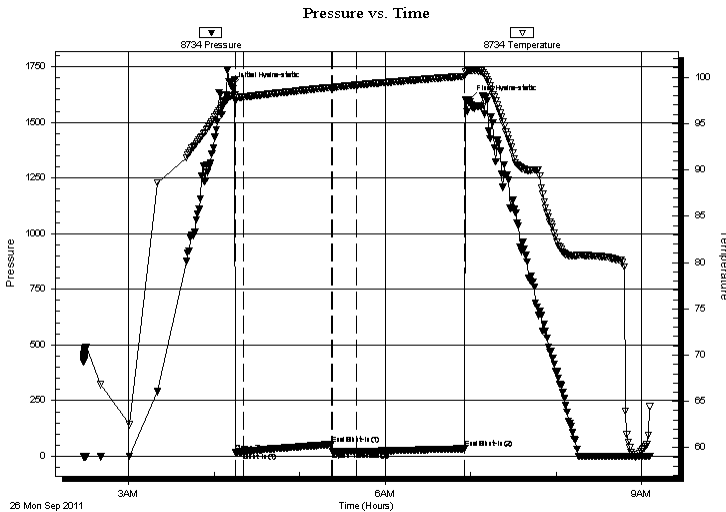
TEST COMMENT: 5 - IFP - sur blow throughout

60 - ISI - no blow back

20 - FFP - no blow

70 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.16	98.00	Initial Hydro-static
3	19.08	97.42	Open To Flow (1)
8	19.53	97.88	Shut-In(1)
70	53.11	98.90	End Shut-In(1)
71	20.08	98.90	Open To Flow (2)
88	22.26	99.16	Shut-In(2)
163	33.84	100.10	End Shut-In(2)
167	1602.79	100.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drl mud 100%	0.07

* Recovery from multiple tests

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: 3412.00 ft	Diameter: 3.80 inches	Volume: 47.86 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: 55000.00 lb
			Total Volume: 47.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3416.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	74.00 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	8365	Fluid	3381.00	
Blank Spacing	5.00			3386.00	
Shut In Tool	5.00			3391.00	
Sampler	3.00			3394.00	
Hydraulic tool	5.00			3399.00	
Jars	5.00			3404.00	
Safety Joint	2.00			3406.00	
Packer	5.00			3411.00	35.00 Bottom Of Top Packer
Packer	5.00			3416.00	
Stubb	1.00			3417.00	
Perforations	1.00			3418.00	
Recorder	0.00	8372	Inside	3418.00	
Recorder	0.00	8734	Outside	3418.00	
Change Over Sub	1.00			3419.00	
Blank Spacing	31.00			3450.00	
Change Over Sub	1.00			3451.00	
Perforations	1.00			3452.00	
Bullnose	3.00			3455.00	39.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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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:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 cm ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drl mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

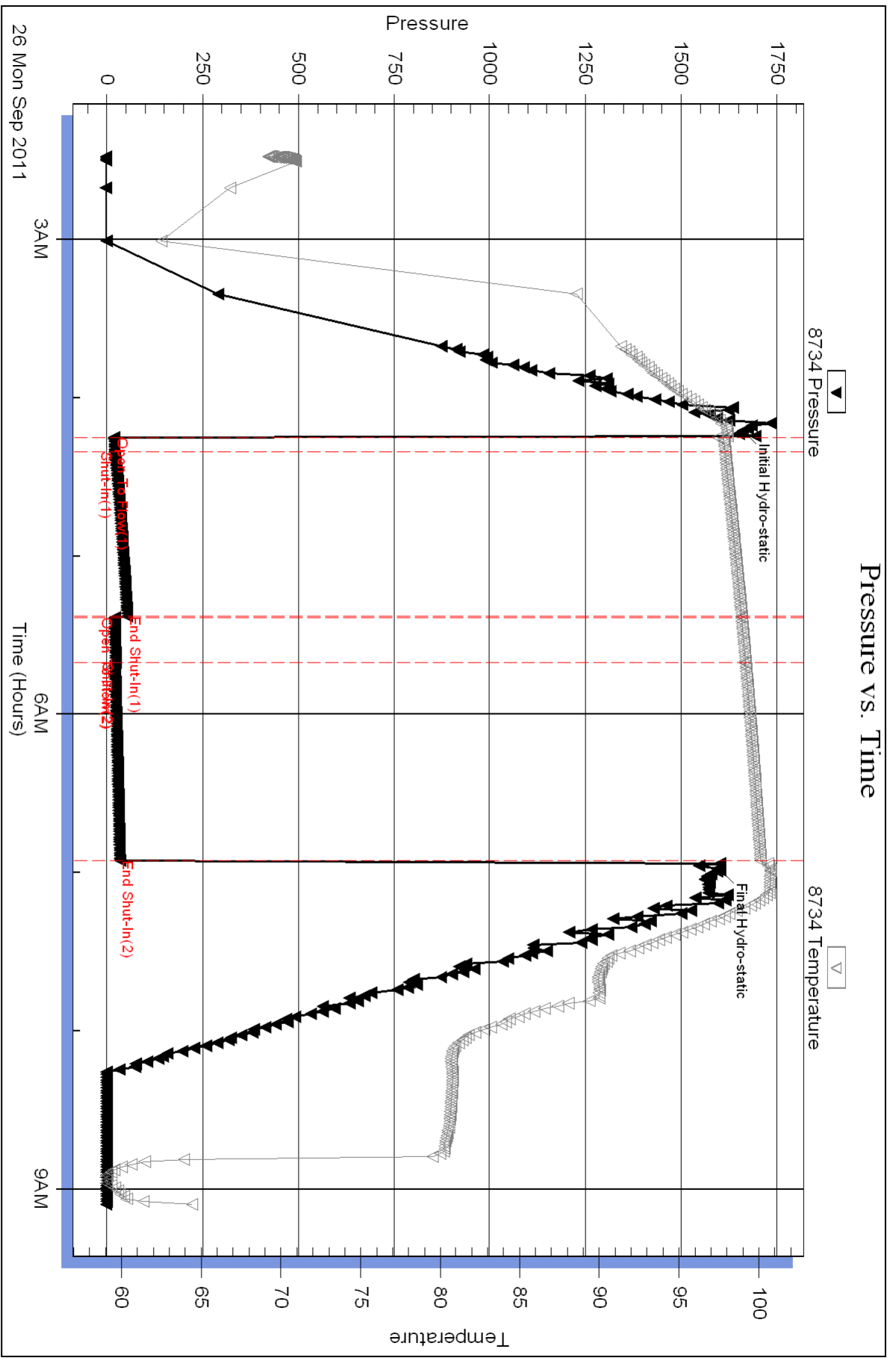
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4000 ml mud, 25 lbs



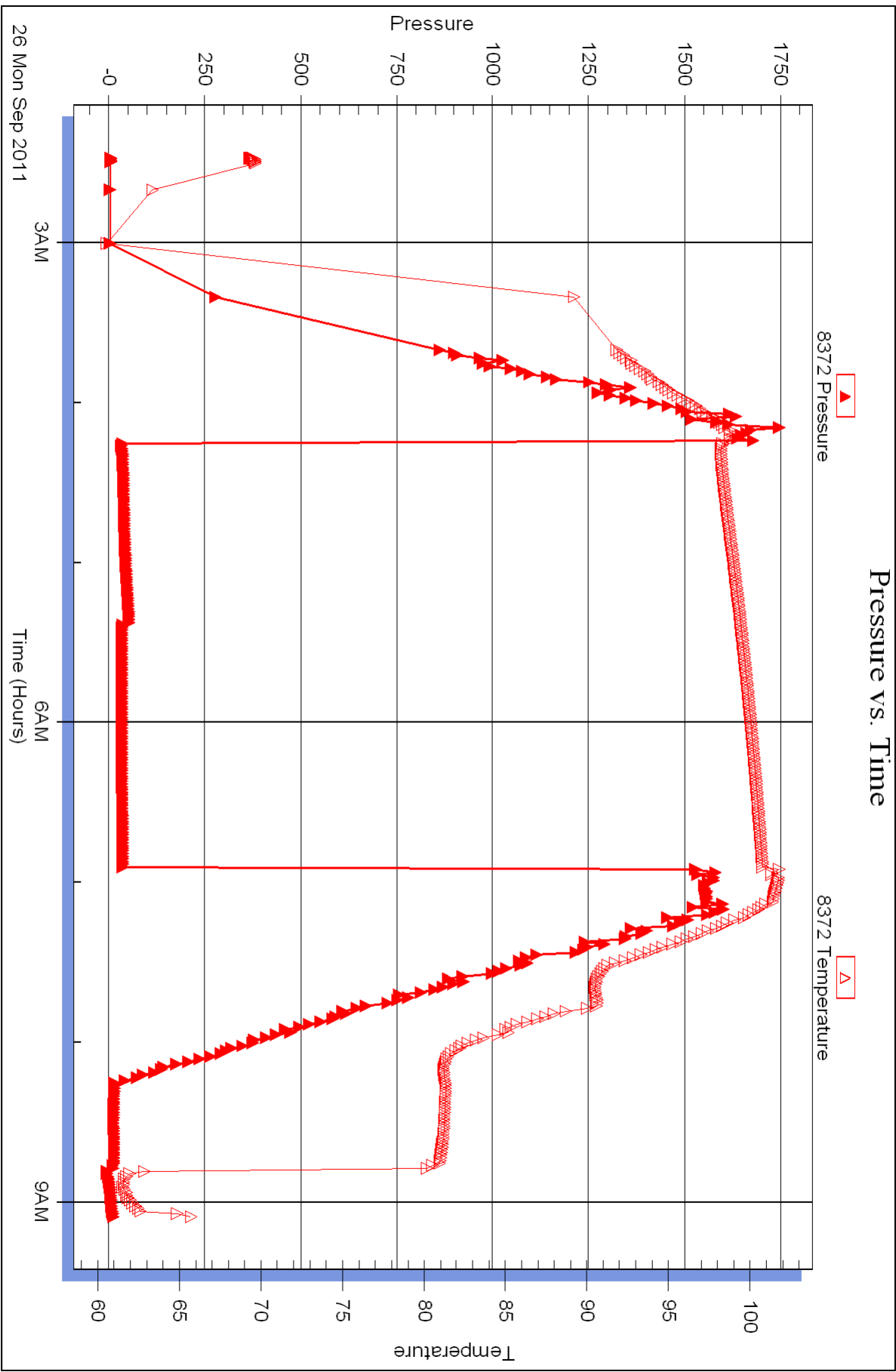
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Inside

Samuel Gary Jr. and Associates, Inc.

25-16-16 Rush, Ks

DST Test Number: 2



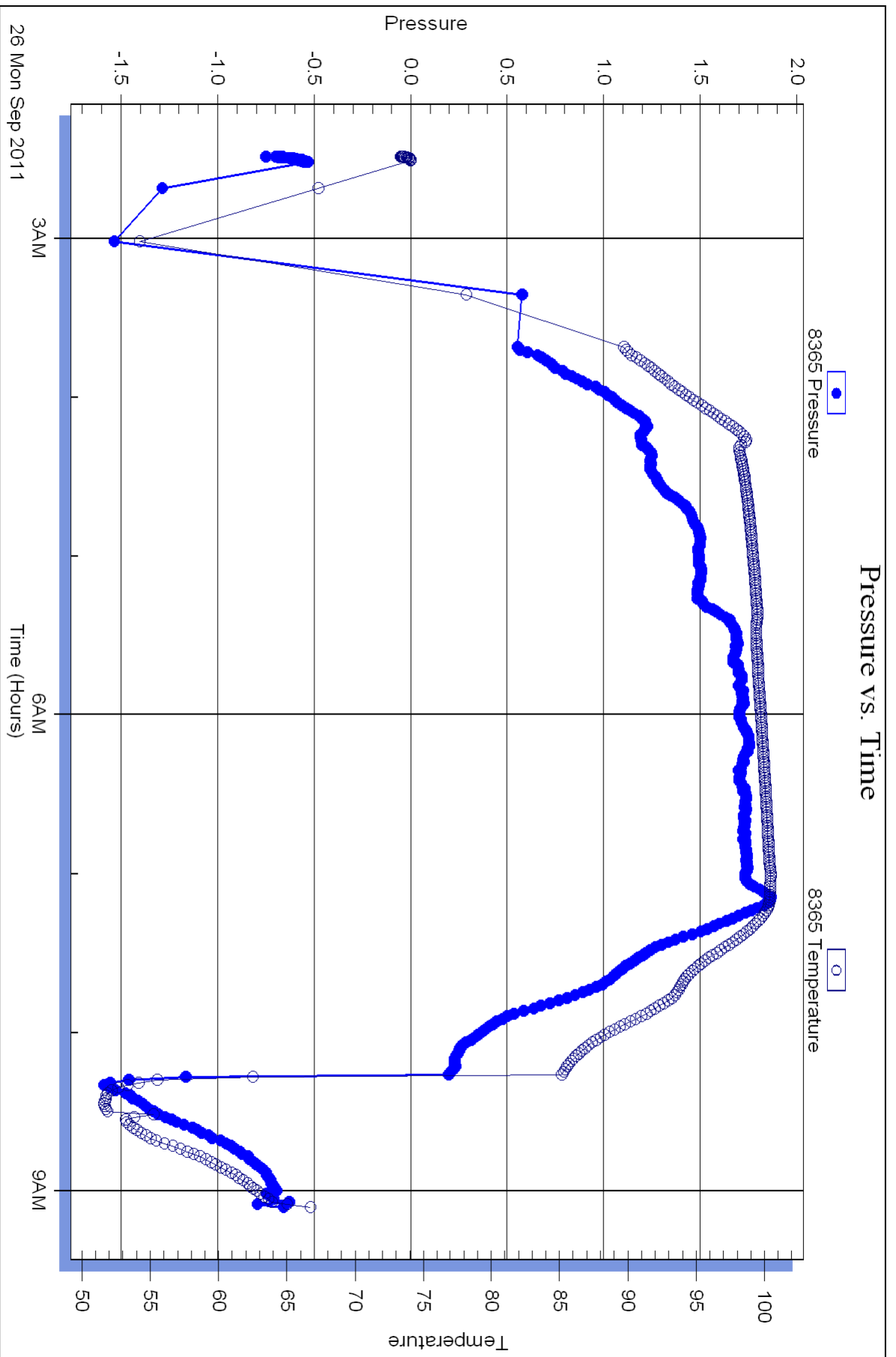
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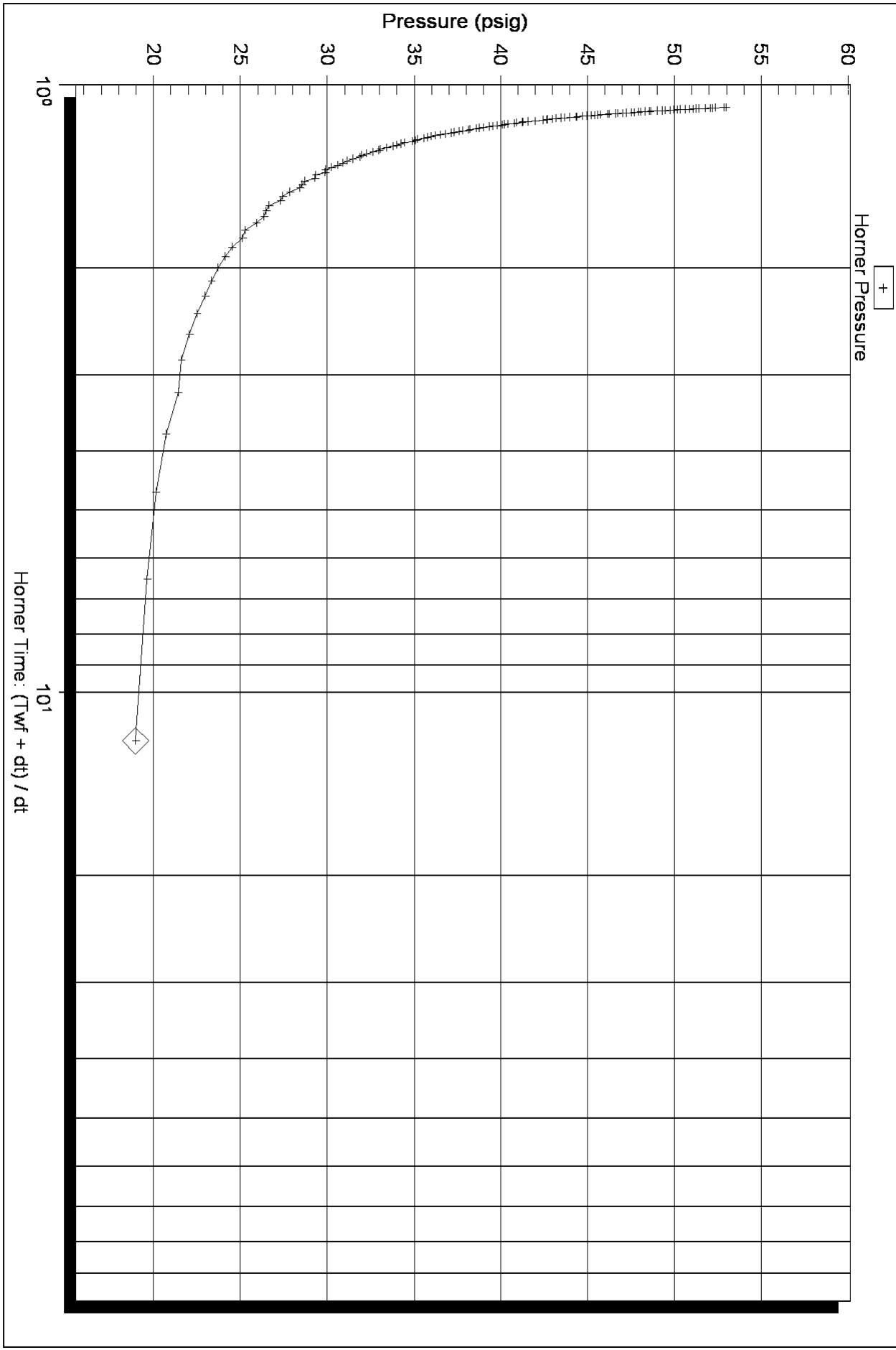
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DST Test Number: 2



Horner Plot



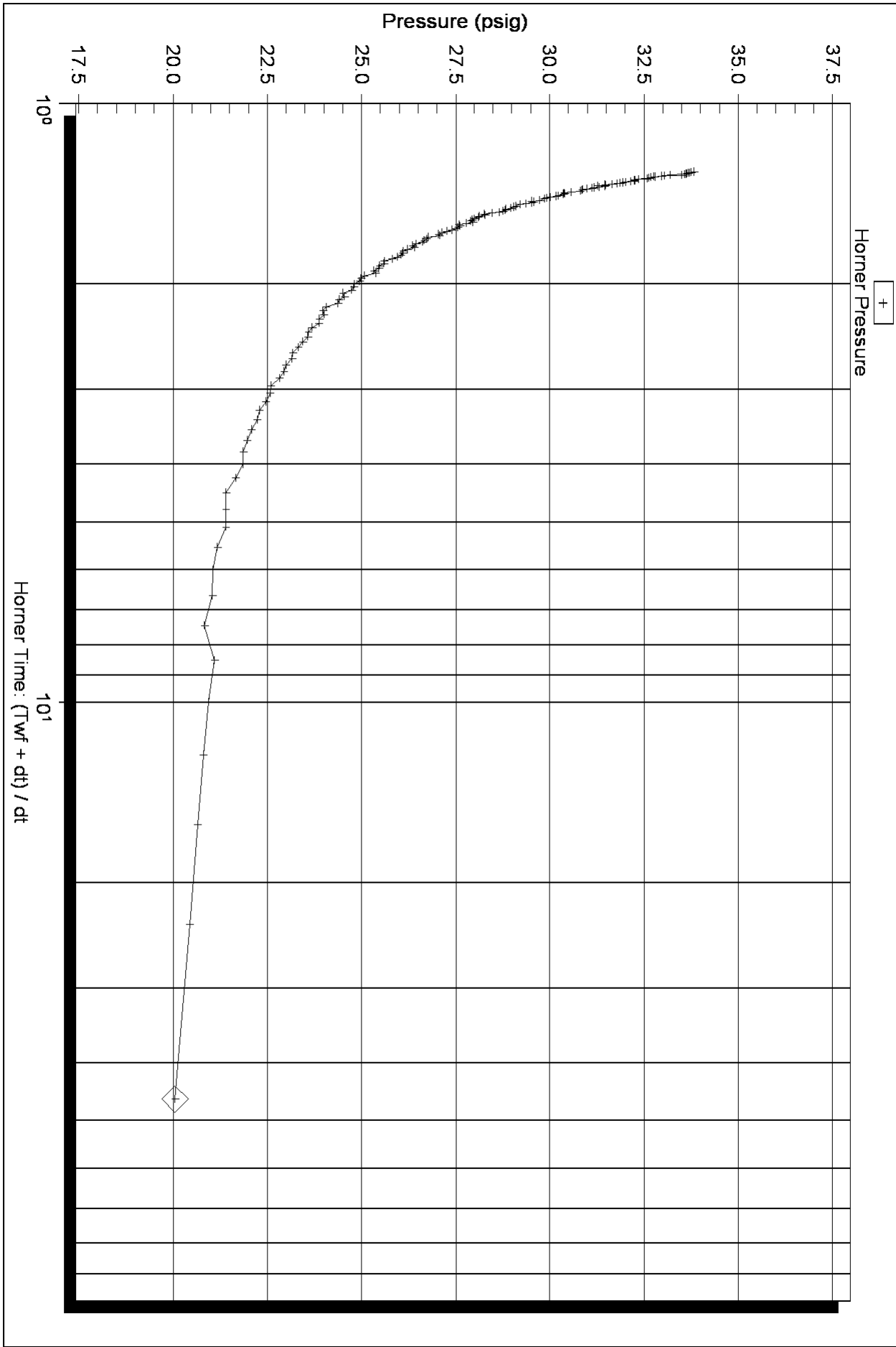
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P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



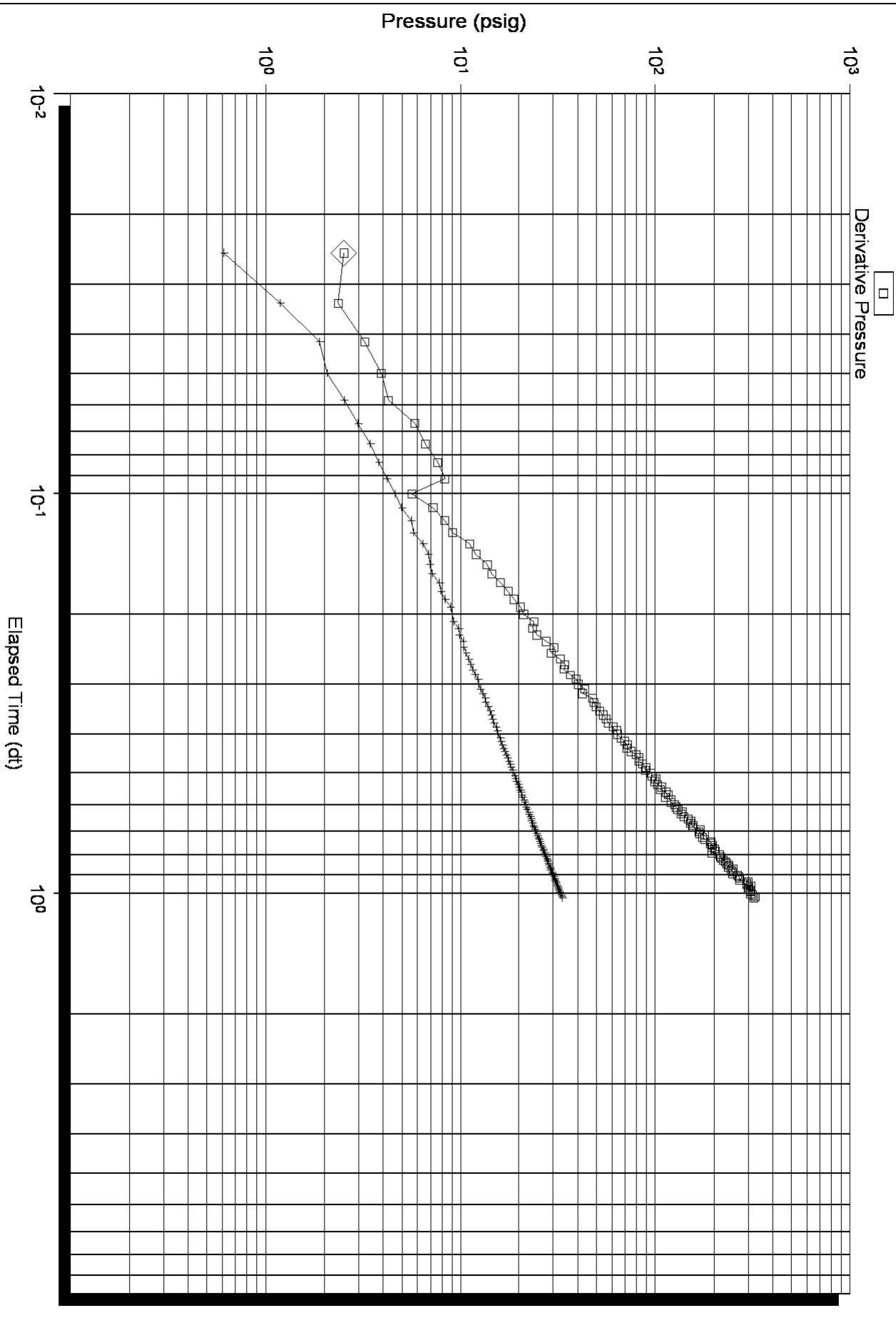
Serial Number: 8734 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

