



## 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: 2011.09.25 @ 04:57:43

End Date: 2011.09.25 @ 11:28:43

Job Ticket #: 44176                      DST #: 1

Trilobite Testing, Inc  
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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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**DST#: 1**

Test Start: 2011.09.25 @ 04:57:43

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:06:13

Time Test Ended: 11:28:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

**Interval: 3338.00 ft (KB) To 3349.00 ft (KB) (TVD)**

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3349.00 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: 23.33 psig @ 3341.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.25 End Date: 2011.09.25

Last Calib.: 2011.09.25

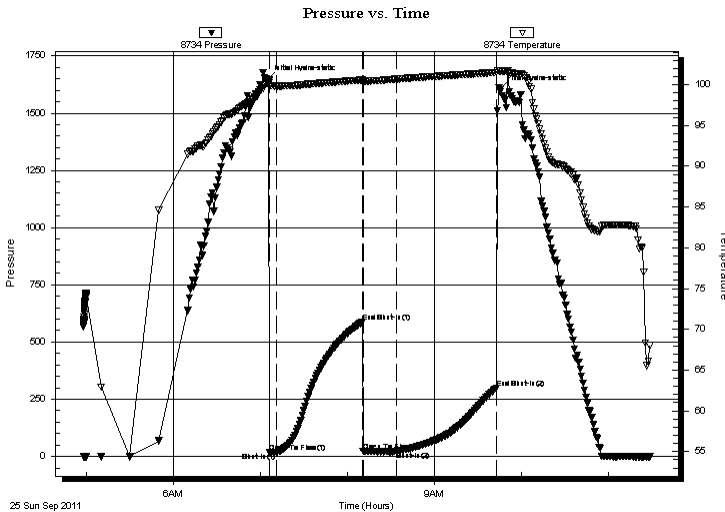
Start Time: 04:57:44 End Time: 11:28:43

Time On Btm: 2011.09.25 @ 07:04:43

Time Off Btm: 2011.09.25 @ 09:45:13

**TEST COMMENT:** 5 - IFP - weak blow throughout 1/4" - 1/2"  
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	1646.76	100.19	Initial Hydro-static
2	19.55	99.87	Open To Flow (1)
7	17.98	99.84	Shut-In(1)
66	586.85	100.58	End Shut-In(1)
66	21.35	100.32	Open To Flow (2)
89	23.33	100.68	Shut-In(2)
158	299.64	101.50	End Shut-In(2)
161	1604.47	101.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	drl mud 100%	0.03

## Gas Rates

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







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**TOOL DIAGRAM**

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ATTN: Neil Sharp

Test Start: 2011.09.25 @ 04:57:43

## Tool Information

Drill Pipe:	Length: 3321.00 ft	Diameter: 3.80 inches	Volume: 46.58 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
			Total Volume: 46.58 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3338.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	46.00 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	3303.00	
Blank Spacing	5.00			3308.00	
Shut In Tool	5.00			3313.00	
Sampler	3.00			3316.00	
Hydraulic tool	5.00			3321.00	
Jars	5.00			3326.00	
Safety Joint	2.00			3328.00	
Packer	5.00			3333.00	35.00 Bottom Of Top Packer
Packer	5.00			3338.00	
Stubb	1.00			3339.00	
Perforations	2.00			3341.00	
Recorder	0.00	8372	Inside	3341.00	
Recorder	0.00	8734	Outside	3341.00	
Perforations	5.00			3346.00	
Bullnose	3.00			3349.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



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**FLUID SUMMARY**

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**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.09.25 @ 04:57:43

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 cm<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	drl mud 100%	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

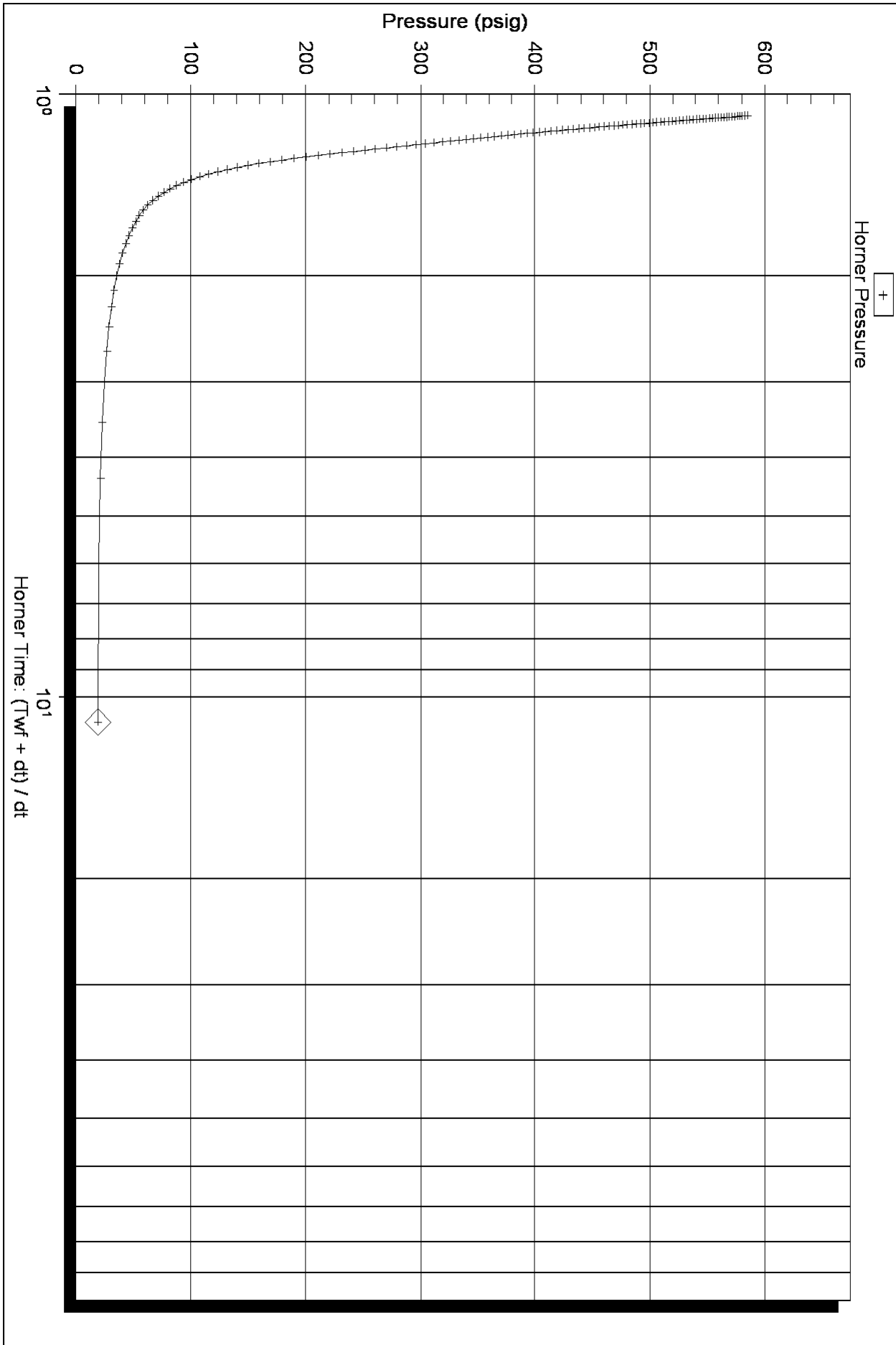
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4000 ml mud, 80 lbs

# Horner Plot



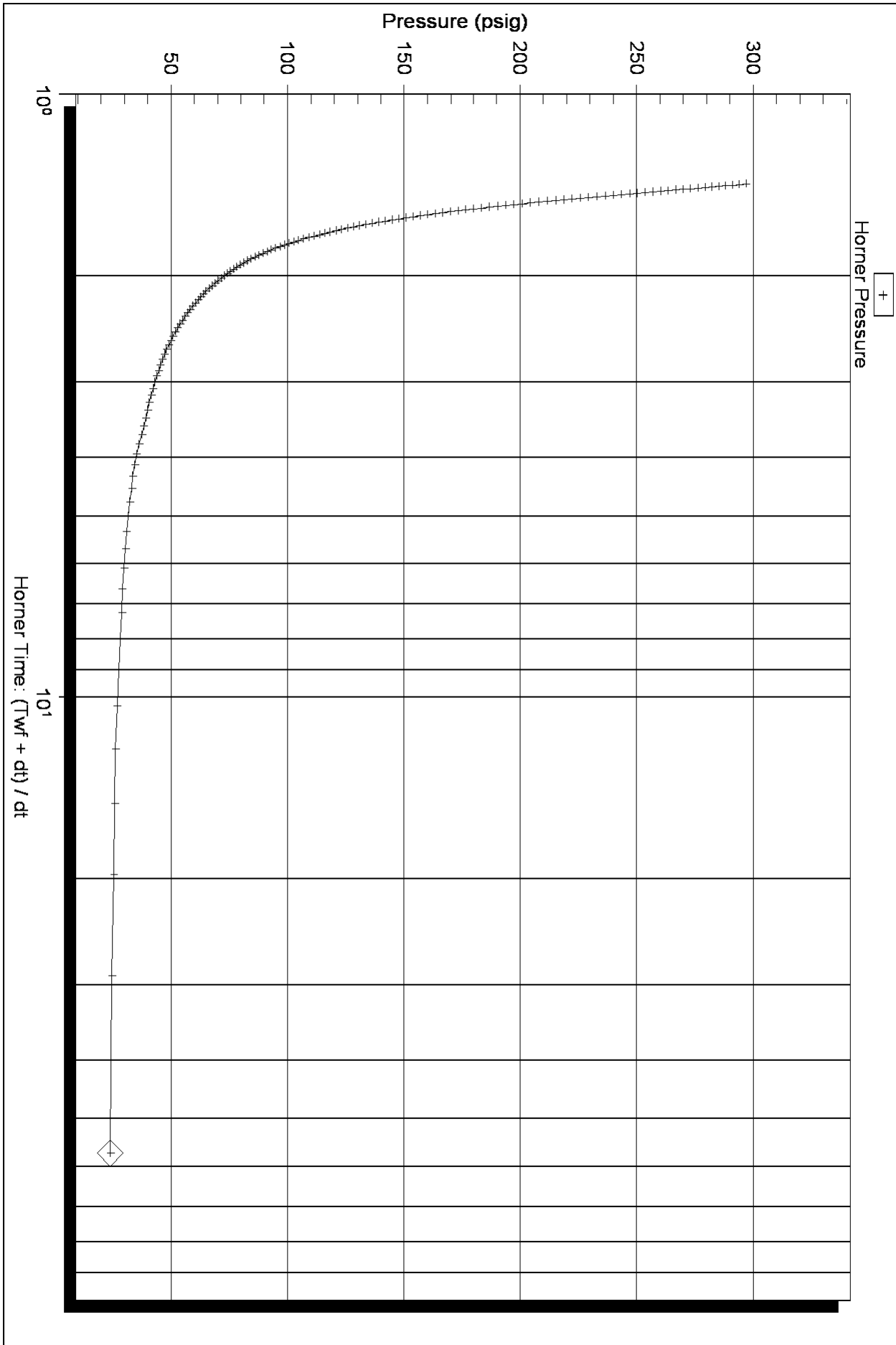
Serial Number: 8734 (Outside)

P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

# Horner Plot



Serial Number: 8734 (Outside)

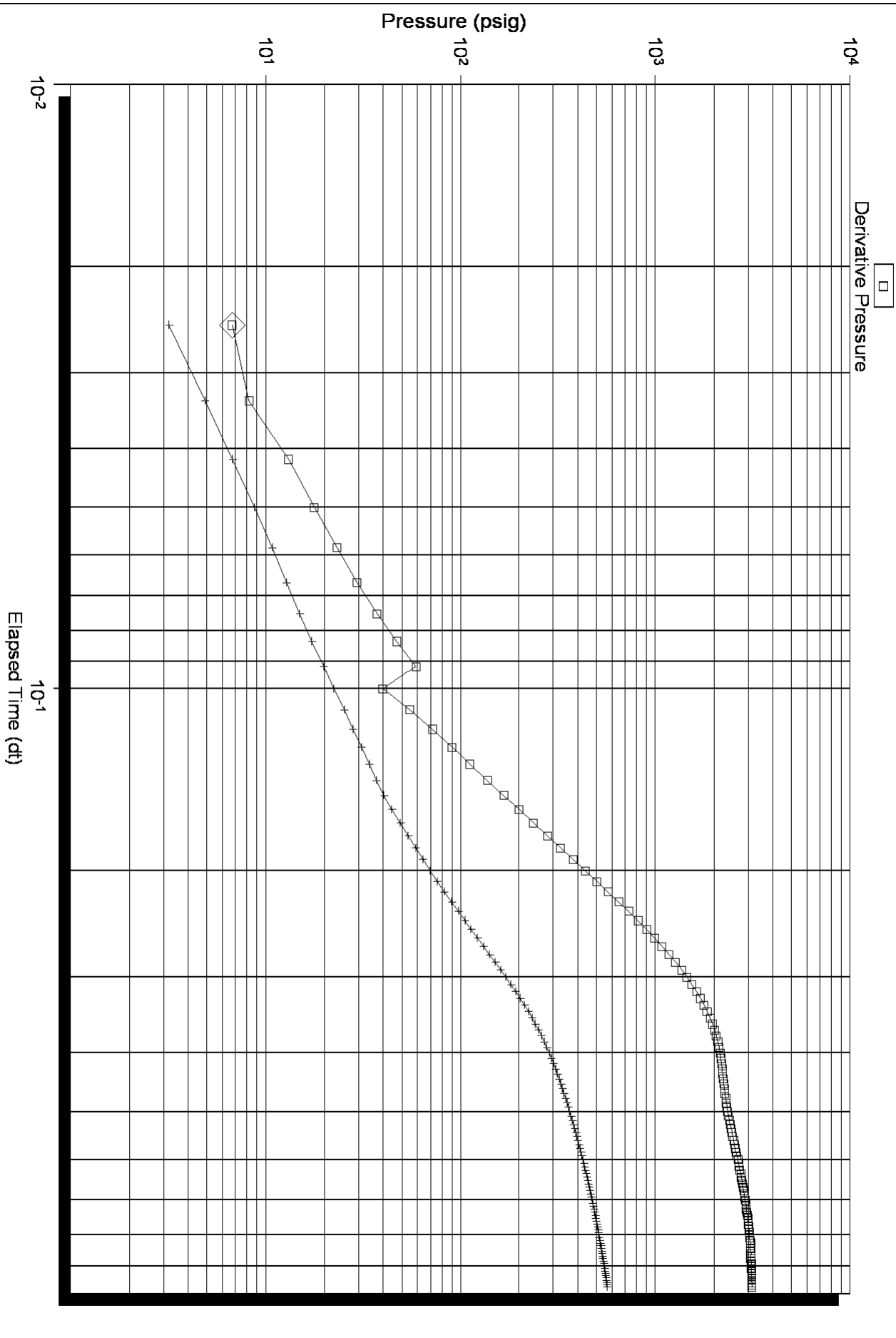
P\* :

Slope (m) : kpa/log cycle

Flow Cycle: 2



# Log-Log and Pseudo-Derivative



Serial Number: 8734 (Outside)

Flow Cycle: 1

# Log-Log and Pseudo-Derivative

