

DRILL STEMTEST REPORT

Prepared For: **S Gary Jr & Assoc inc**

1515 wynkoop
STE 700
Denver Co 80202

ATTN: Tom Feral

Rosenboom et al 1-18

18-14s-17wEllis

Start Date: 2012.06.15 @ 13:16:05

End Date: 2012.06.15 @ 19:27:09

Job Ticket #: 47878 DST #: 1

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

Printed: 2012.06.15 @21:07:34



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

S Gary Jr & Assoc inc

18-14s-17w Elis

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STE 700
Denver Co 80202
ATTN TomFertal

Rosenboom et al 1-18

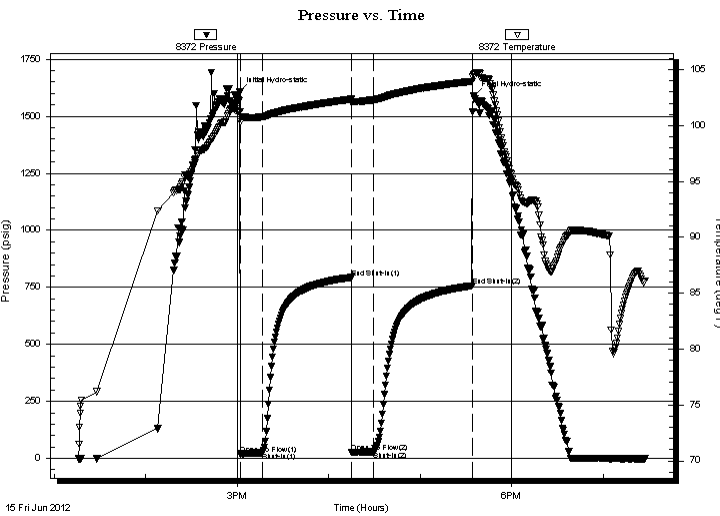
Job Ticket: 47878 **DST#: 1**
Test Start: 2012.06.15 @ 13:16:05

GENERAL INFORMATION:

Formation: **LKC'E mid G'**
 Deviated: Nb Whipstock ft (KB)
 Time Tool Opened: 15:02:30
 Time Test Ended: 19:27:09
 Interval: **3323.00 ft (KB) To 3368.00 ft (KB) (TVD)**
 Total Depth: 3368.00 ft (KB) (TVD)
 Hble Diameter: 7.88 inches Hble Condition: Fair
 Test Type: Conventional Bottom Hble (Initial)
 Tester: Andy Carreira
 Unit Nr: 39
 Reference Elevations: 1985.00 ft (KB)
 1977.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8372 Outside
 Press@RunDepth: 29.69 psig @ 3330.00 ft (KB)
 Start Date: 2012.06.15 End Date: 2012.06.15
 Start Time: 13:16:05 End Time: 19:27:10
 Capacity: 8000.00 psig
 Last Calib.: 2012.06.15
 Time On Btm: 2012.06.15 @ 15:01:50
 Time Off Btm: 2012.06.15 @ 17:35:20

TEST COMMENT: IF:(10min) Surface Blow
 IS:(60min) Nb Return
 FF:(10min) Nb Blow
 FS:(60min) Nb Return



PRESSURE SUMMARY

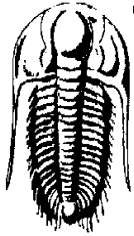
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.58	101.22	Initial Hydro-static
1	18.38	100.32	Open To Flow(1)
15	24.98	100.78	Shut-In(1)
73	793.10	102.35	End Shut-In(1)
74	26.13	102.05	Open To Flow(2)
88	29.69	102.30	Shut-In(2)
153	756.83	103.94	End Shut-In(2)
154	1588.52	104.57	Final Hydro-static

Recovery

Length (ft)	Description	Vdume (bbl)
20.00	Mud w/ oil splks in Tool	0.28

Gas Rates

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



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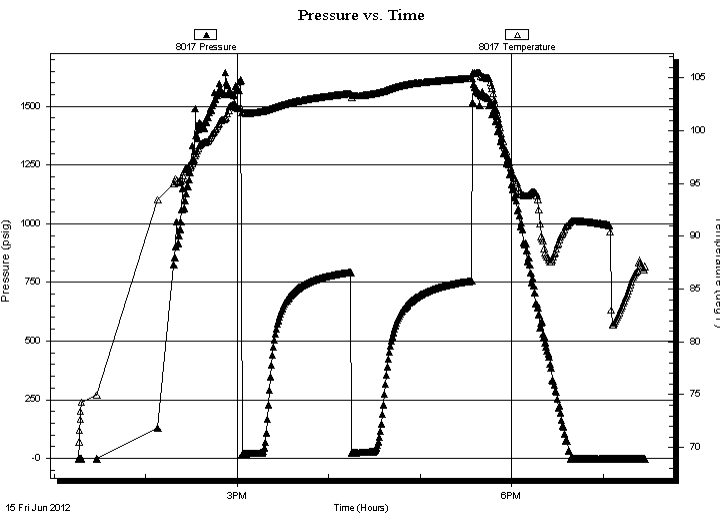
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 Unit Nr: 39
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 1977.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8017 Inside

Press@RunDepth: psig @ 3330.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.15 End Date: 2012.06.15 Last Calib.: 2012.06.15
 Start Time: 13:16:05 End Time: 19:27:20 Time On Btm
 Time Off Btm

TEST COMMENT: IF:(10min) Surface Blow
 IS:(60min) Nb Return
 FF:(10min) Nb Blow
 FS:(60min) Nb Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Vdume (tbl)
20.00	Mud w/ oil spls in Tool	0.28

Gas Rates

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



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TOOL DIAGRAM

S Gary Jr & Assoc inc

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Job Ticket: 47878 **DST#: 1**
Test Start: 2012.06.15 @ 13:16:05

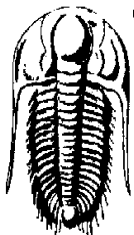
Tool Information

Drill Pipe:	Length: 3312.00 ft	Diameter: 3.80 inches	Volume: 46.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 46.46 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3323.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length(ft)	Serial No.	Position	Depth (ft)	Accum Lengths
Change Over Sub	1.00			3289.00	
Recorder	0.00	8647	Fluid	3289.00	
Blank Spacing	5.00			3294.00	
Shut In Tool	5.00			3299.00	
Sampler	2.00			3301.00	
Hydraulic tool	5.00			3306.00	
Jars	5.00			3311.00	
Safety Joint	3.00			3314.00	
Packer	5.00			3319.00	35.00 Bottom Of Top Packer
Packer	4.00			3323.00	
Stubb	1.00			3324.00	
Perforations	5.00			3329.00	
Change Over Sub	1.00			3330.00	
Recorder	0.00	8017	Inside	3330.00	
Recorder	0.00	8372	Outside	3330.00	
Drill Pipe	31.00			3361.00	
Change Over Sub	1.00			3362.00	
Perforations	3.00			3365.00	
Bullnose	3.00			3368.00	45.00 Bottom Packers & Anchor

Total Tool Length: 80.00



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FLUID SUMMARY

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ATTN TomFertal

Rosenboom et al 1-18

Job Ticket: 47878 **DST#: 1**
Test Start: 2012.06.15 @ 13:16:05

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 cm ³	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/ oil spls in Tool	0.281

Total Length: 20.00ft Total Volume: 0.281 bbl

NumFluid Samples: 0 NumGas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

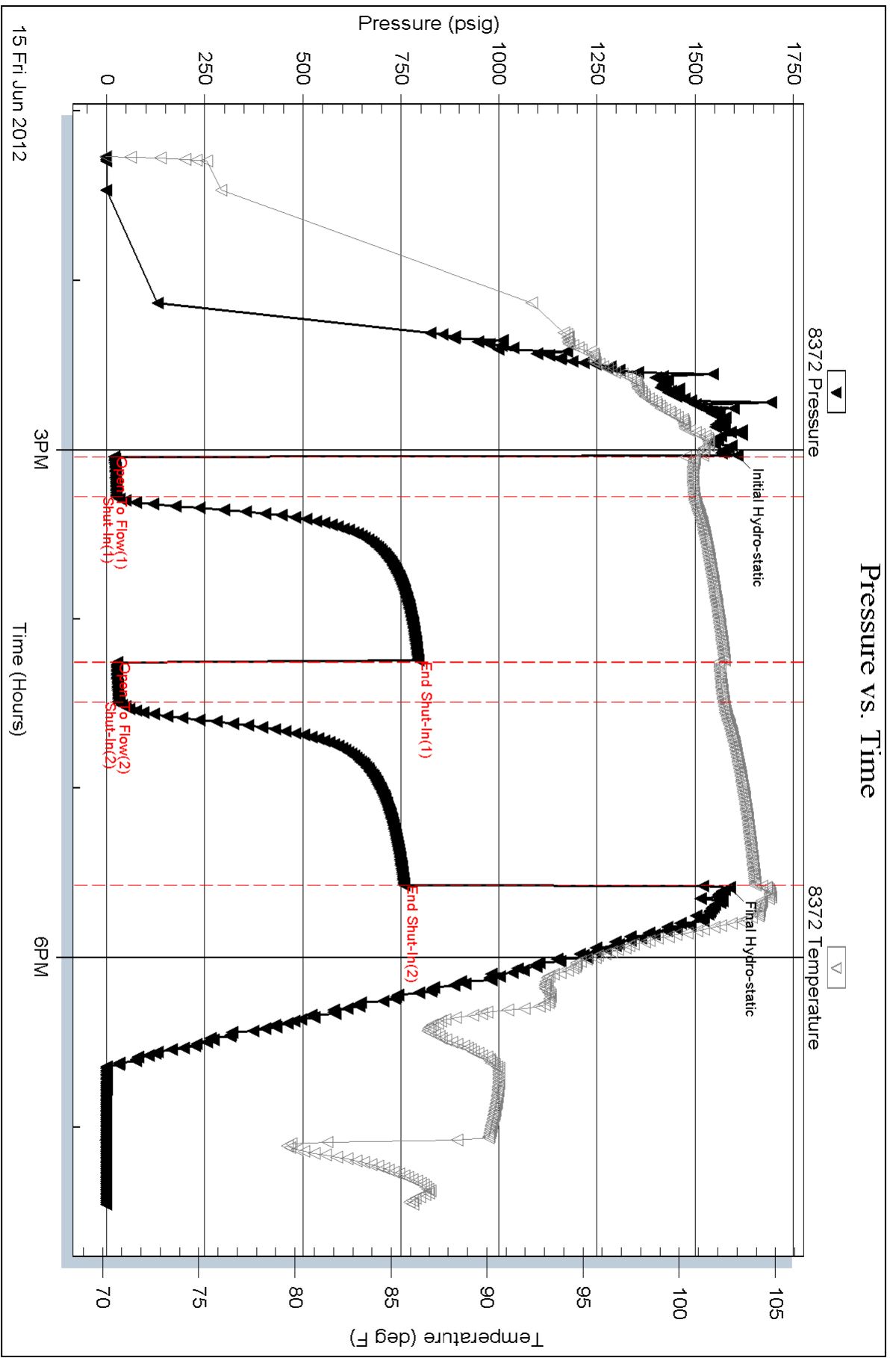
Recovery Comments: Sampler Data- oil=trace mud=3000ml pressure=40lbs

Serial # 8372

Outside S Gary J & Assoc inc

Rosenboom et al 1-18

DSTest Number: 1



Tridotte Testing, Inc

Ref. No: 47878

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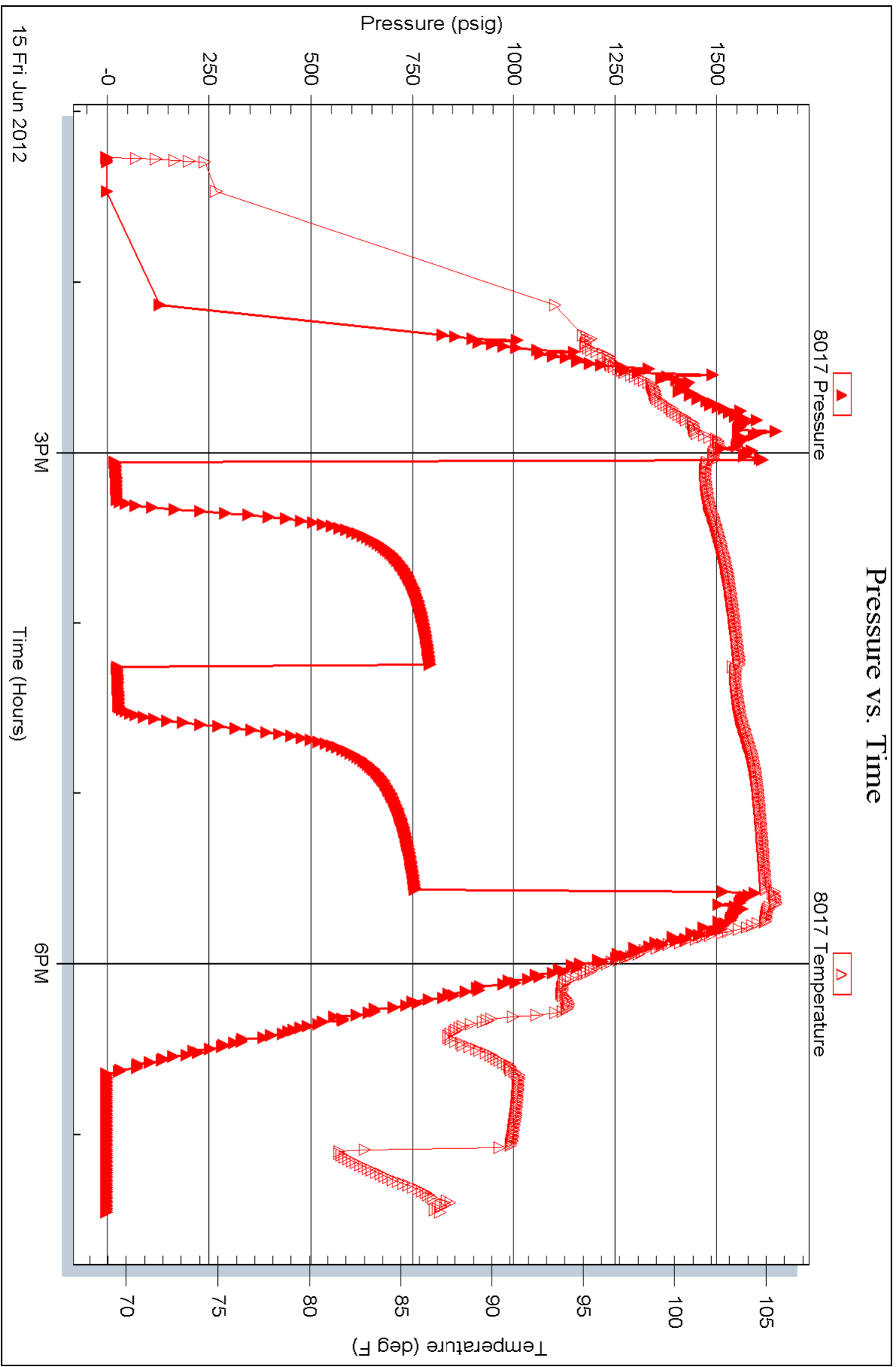
Serial # 8017

Inside

S Gary J & Assoc Inc

Rosenboom at 1-18

DST Test Number: 1



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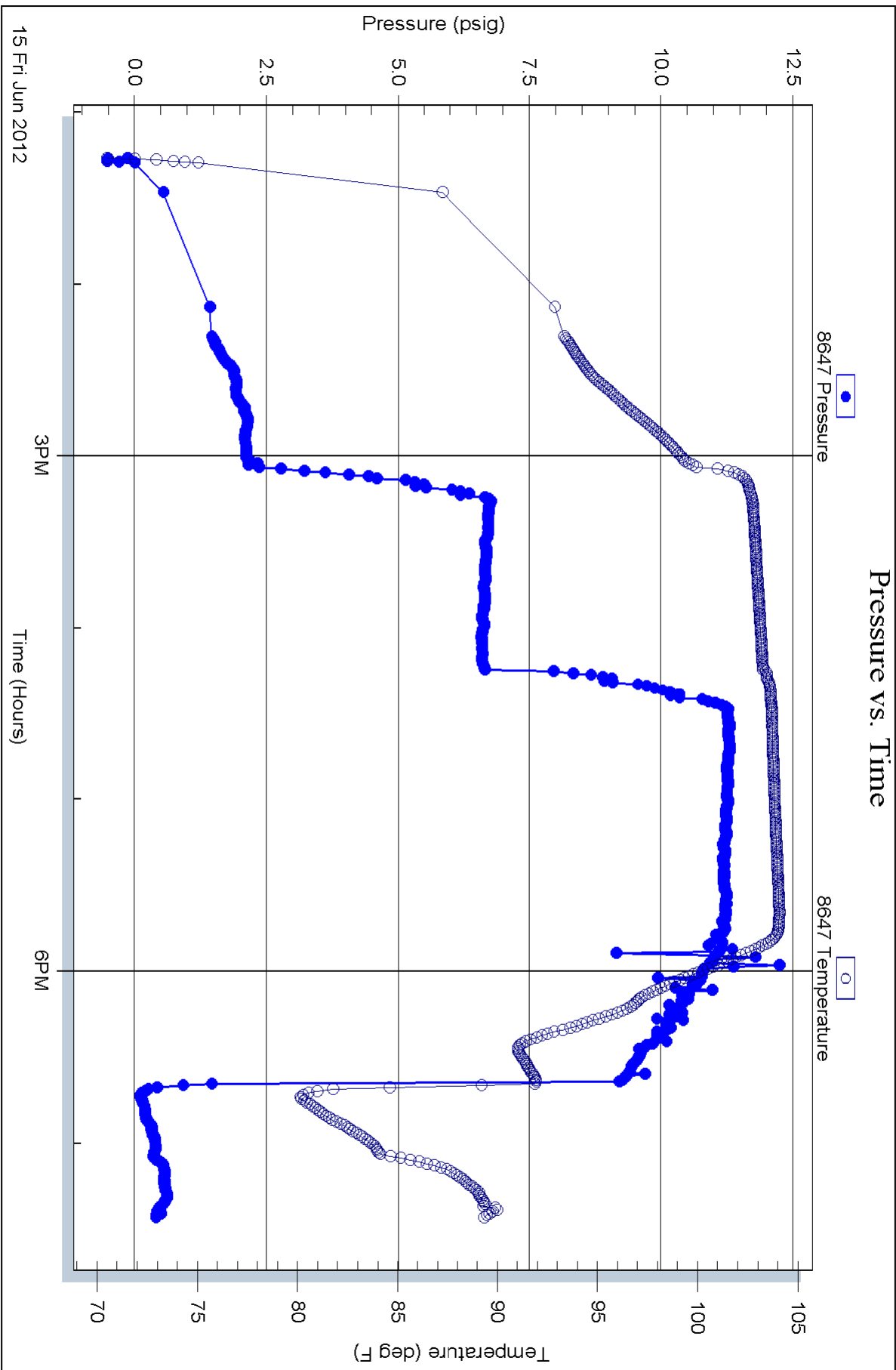
Serial # 8647

Fluid

S Gary J & Assoc inc

Rosenboomd at 1-18

DSTTest Number: 1

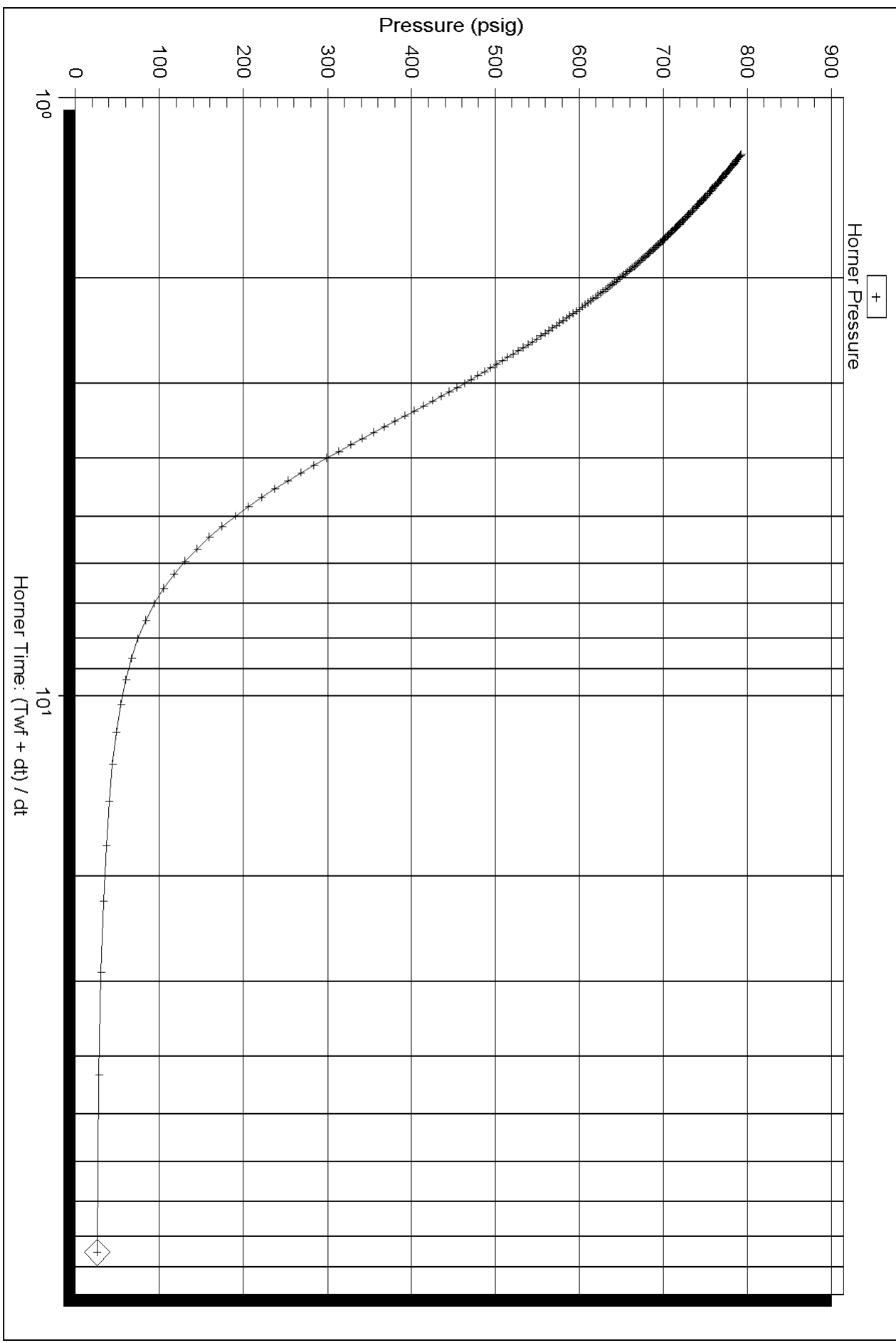


Thiokol Testing, Inc

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Horner Plot



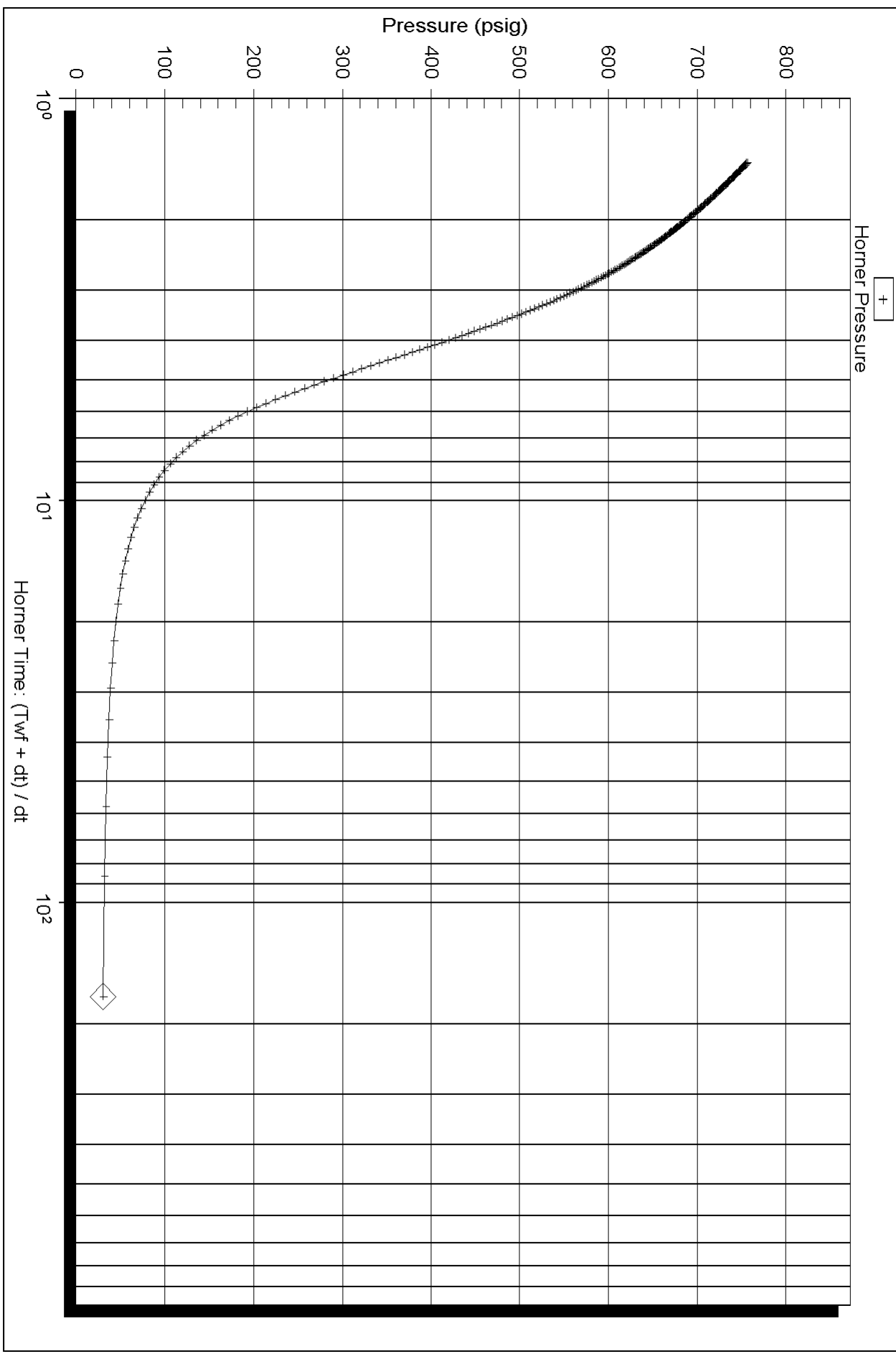
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Pr :

Slope (m) : kpa/log cycle

Flow/Cycle: 1

Horner Plot



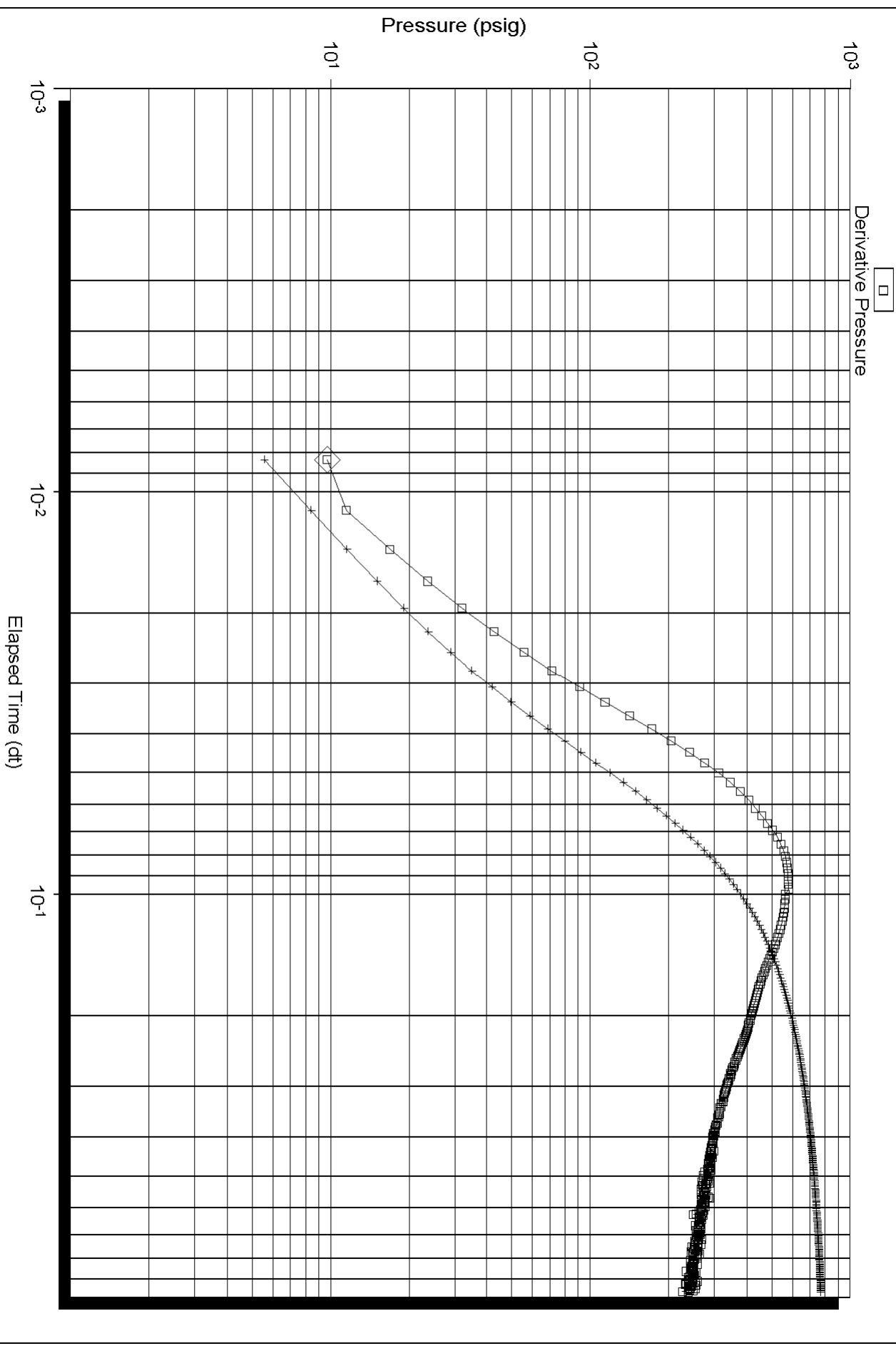
Serial Number: 8372 (Outside)

Pr:

Slope (m) : kpa/log cycle

Flow/Cycle: 2

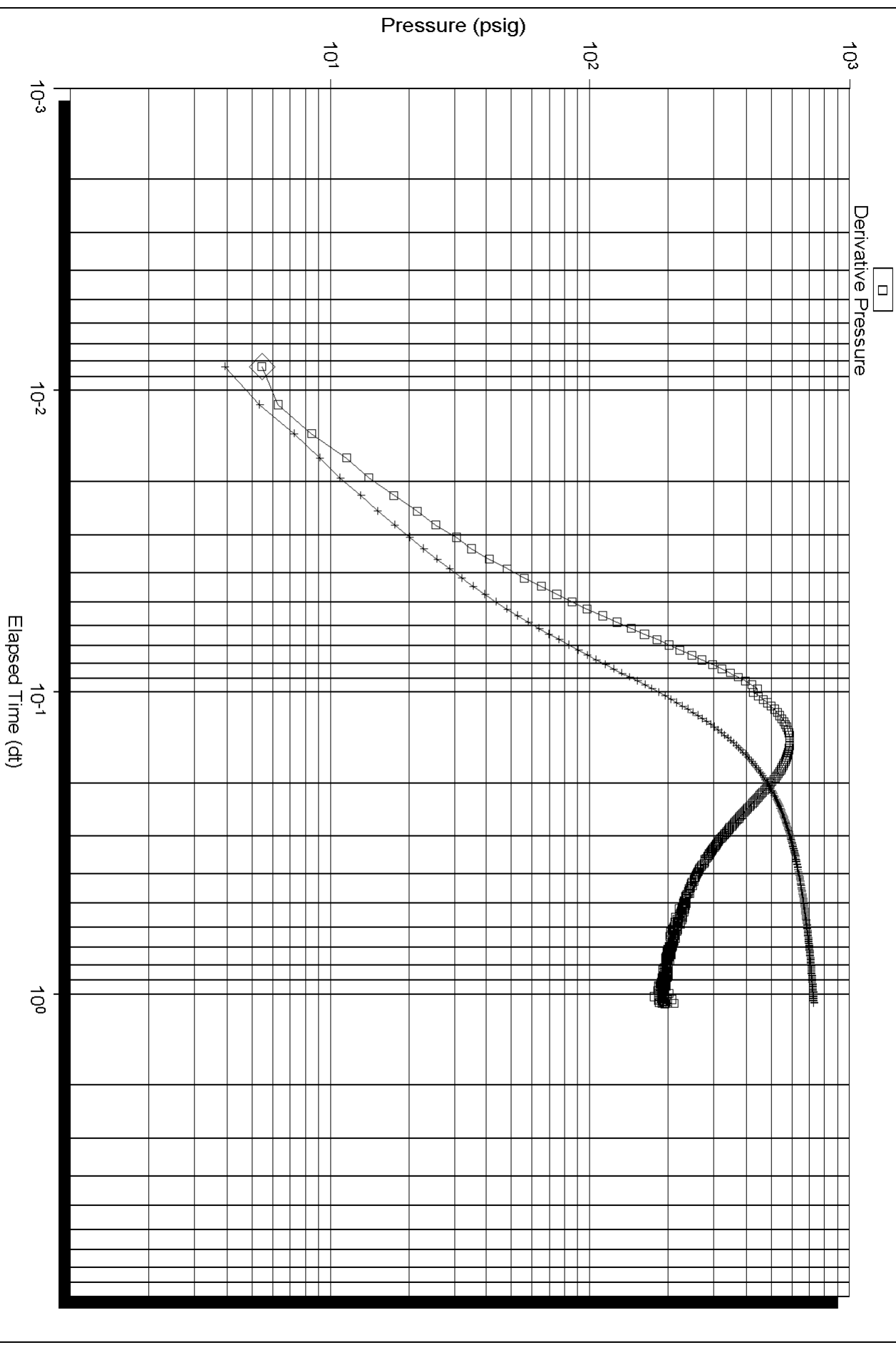
Log-Log and Pseudo-Derivative



Serial Number: 8372 (Outside)

Flow Cycle: 1

Log-Log and Pseudo-Derivative



Serial Number: 8372 (Outside)

Flow Cycle: 2