

DRILL STEM TEST REPORT

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

1515 Wynkoop
Suite 700
Denver, CO. 80202

ATTN: Neil Sharp

26-16s-16w-Rush

Clair #4-26

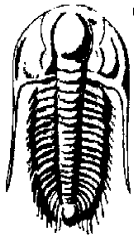
Start Date: 2011.07.27 @ 11:04:59

End Date: 2011.07.27 @ 18:50:59

Job Ticket #: 43551 DST #: 4

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

Printed: 2011.11.11 @ 15:04:46



**TRILOBITE
TESTING, INC.**

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Job Ticket: 43551

DST#: 4

Test Start: 2011.07.27 @ 11:04:59

GENERAL INFORMATION:

Formation: "H"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:53:29
 Time Test Ended: 18:50:59
 Interval: **3406.00 ft (KB) To 3425.00 ft (KB) (TVD)**
 Total Depth: 3425.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1991.00 ft (KB)
 1981.00 ft (CF)
 KB to GR/CF: 10.00 ft

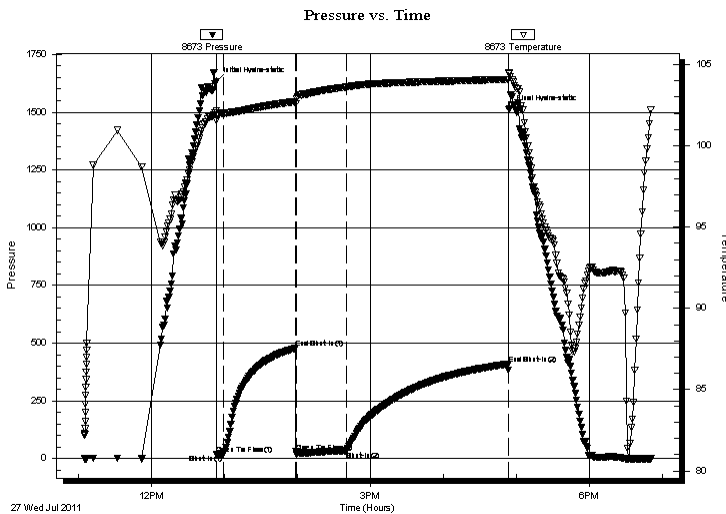
Serial #: 8673

Inside

Press @ Run Depth: 33.69 psig @ 3407.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.27 End Date: 2011.07.27 Last Calib.: 2011.07.27
 Start Time: 11:05:01 End Time: 18:50:59 Time On Btm: 2011.07.27 @ 12:53:14
 Time Off Btm: 2011.07.27 @ 16:53:44

TEST COMMENT: IFP-Weak Blow ,Built to 2"
 ISI-Dead
 FFP_Good Blow ,BOBin 30 Min.
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.65	102.16	Initial Hydro-static
1	18.84	101.53	Open To Flow (1)
6	17.96	102.00	Shut-In(1)
65	477.76	102.73	End Shut-In(1)
66	29.81	102.62	Open To Flow (2)
107	33.69	103.61	Shut-In(2)
240	410.04	104.09	End Shut-In(2)
241	1511.09	104.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	OCMW-15%O-40%W-45%M	0.49
0.00	150' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests



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TOOL DIAGRAM

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ATTN: Neil Sharp

26-16s-16w-Rush

Job Ticket: 43551

DST#: 4

Test Start: 2011.07.27 @ 11:04:59

Tool Information

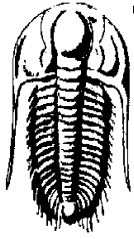
Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 47.44 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3406.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	53.00 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	8736	Fluid	3372.00	
Change Over Sub	5.00			3377.00	
Shut In Tool	5.00			3382.00	
Sampler	2.00			3384.00	
Hydraulic tool	5.00			3389.00	
Jars	5.00			3394.00	
Safety Joint	2.00			3396.00	
Packer	5.00			3401.00	34.00 Bottom Of Top Packer
Packer	5.00			3406.00	
Stubb	1.00			3407.00	
Perforations	0.00			3407.00	
Recorder	0.00	8673	Inside	3407.00	
Recorder	0.00	6755	Outside	3407.00	
Perforations	15.00			3422.00	
Bullnose	3.00			3425.00	19.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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FLUID SUMMARY

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ATTN: Neil Sharp

26-16s-16w-Rush

Job Ticket: 43551

DST#: 4

Test Start: 2011.07.27 @ 11:04:59

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:

53000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	OCMW-15%O-40%W-45%M	0.491
0.00	150' Gas In Pipe	0.000

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

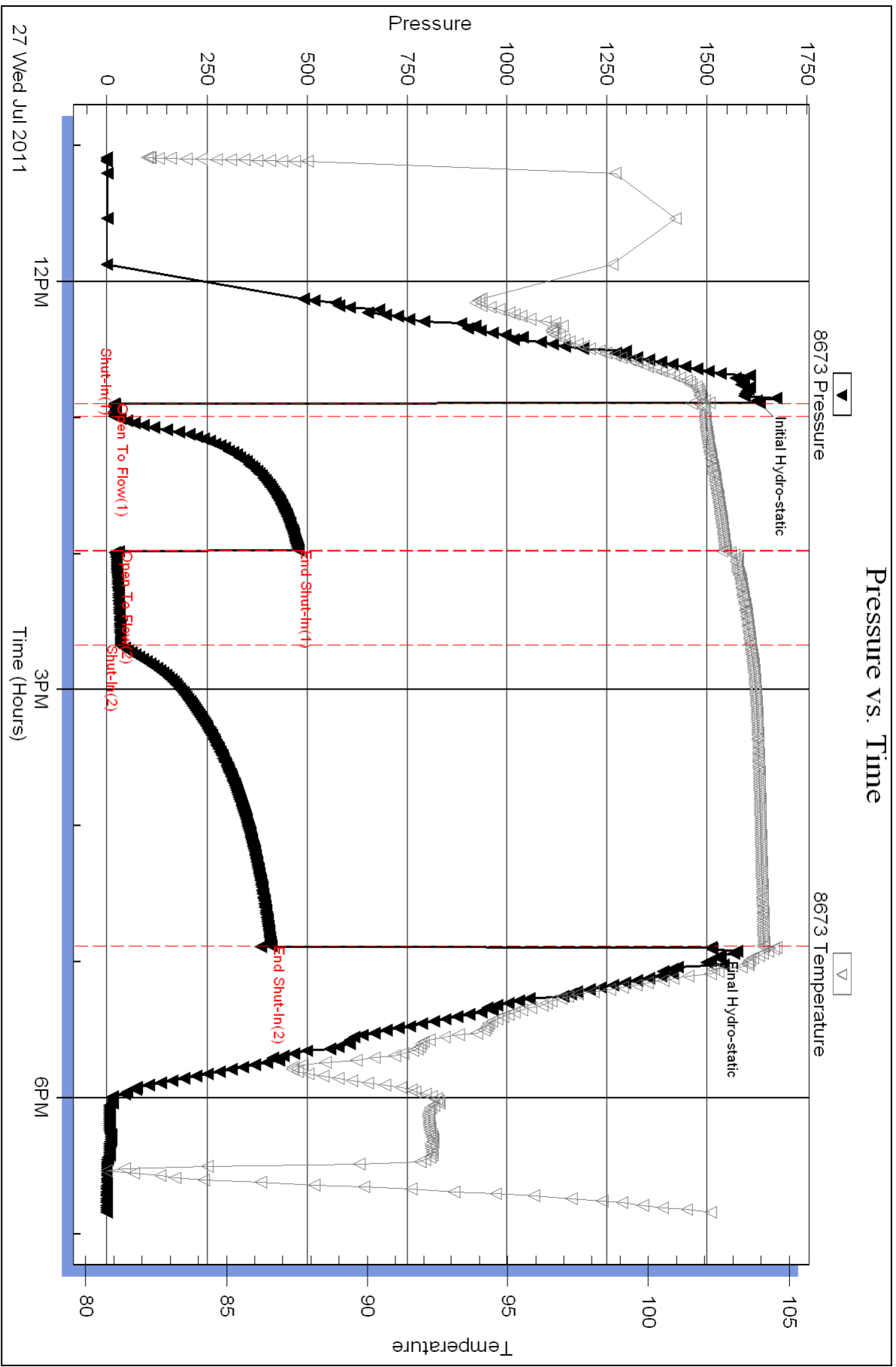
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

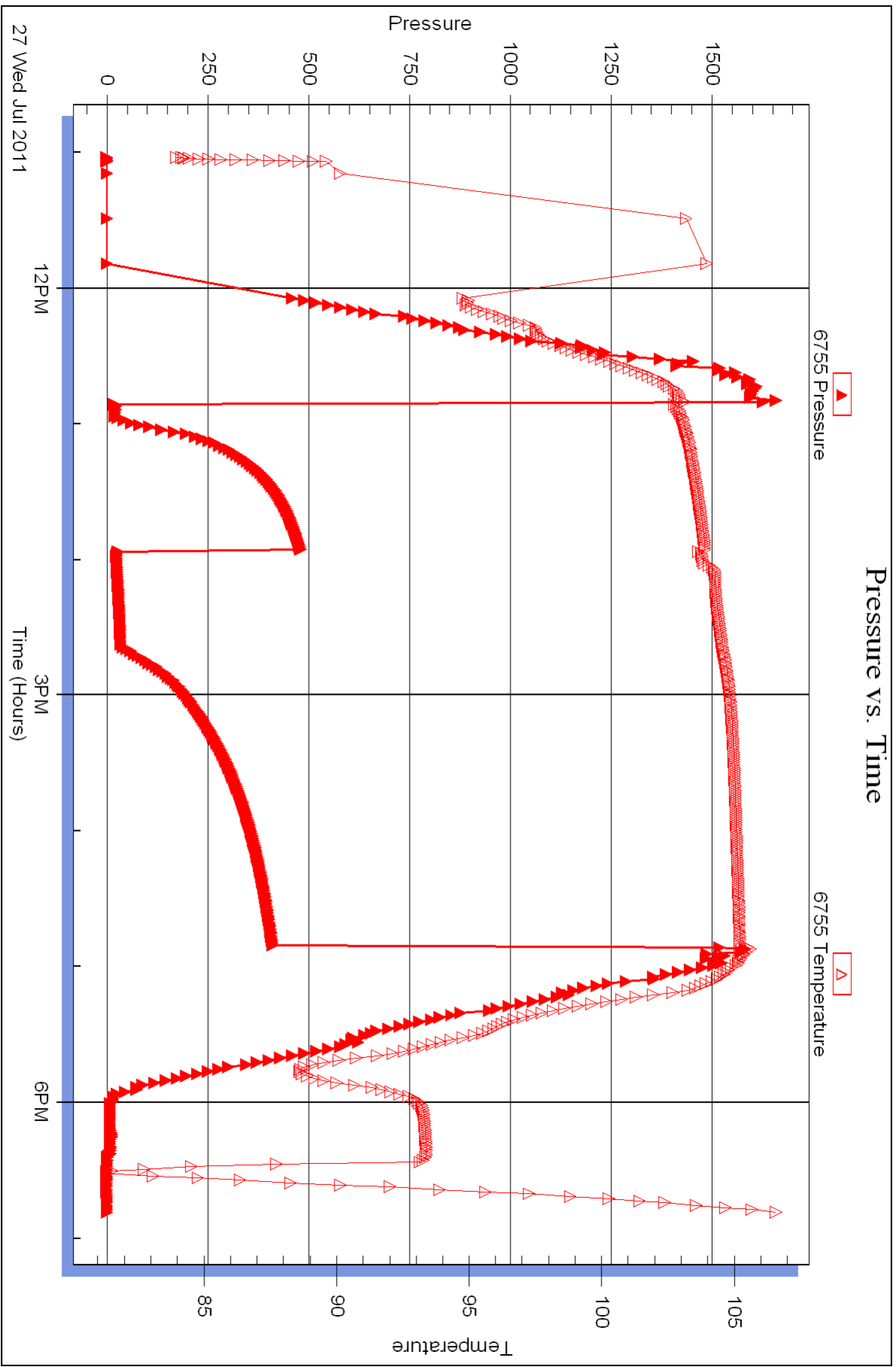


Serial #: 6755

Outside Samuel Gary Jr. & Associates

26-16s-16w-Rush

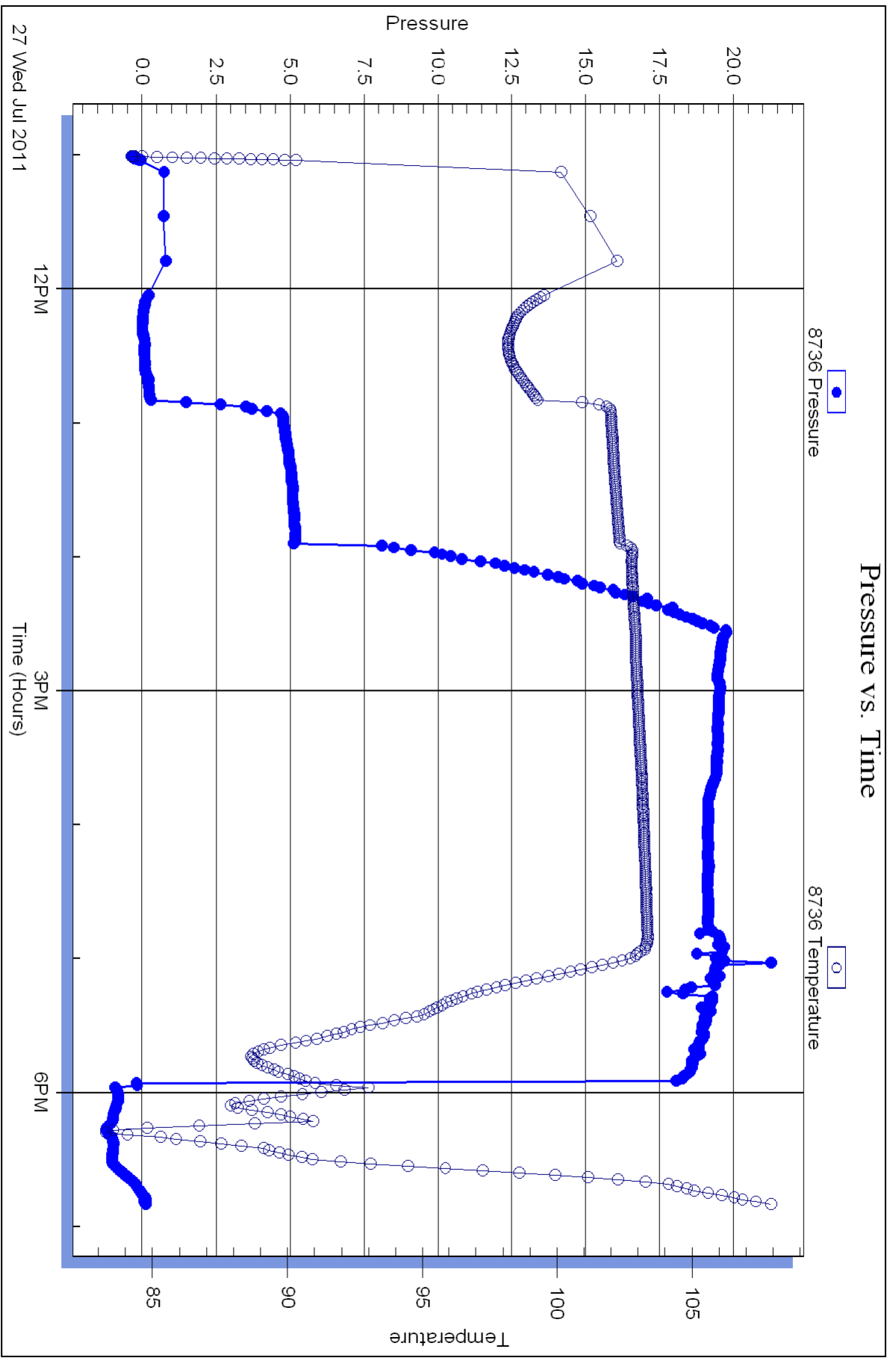
DST Test Number: 4



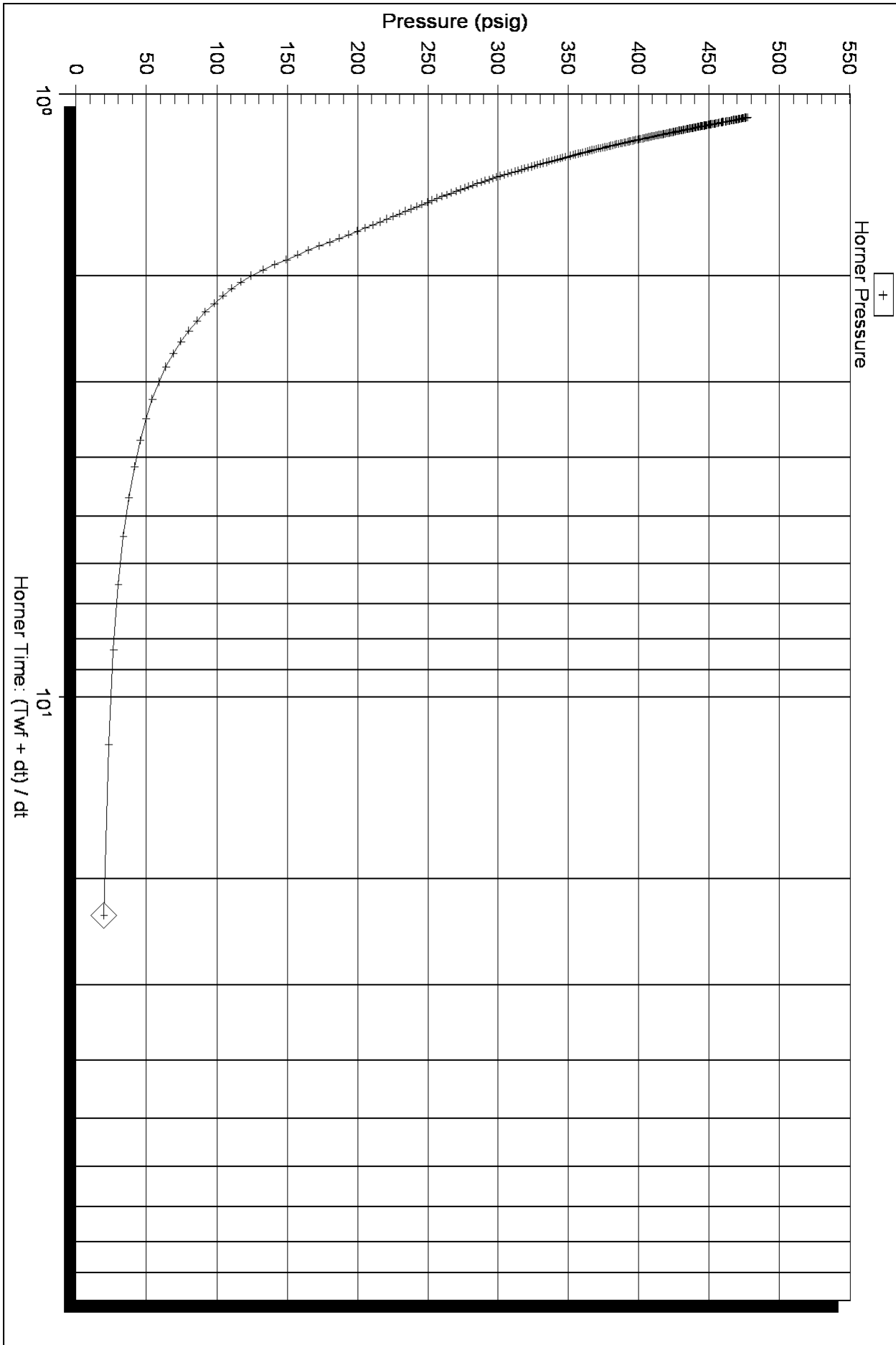
Triobite Testing, Inc

Ref. No: 43551

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Horner Plot



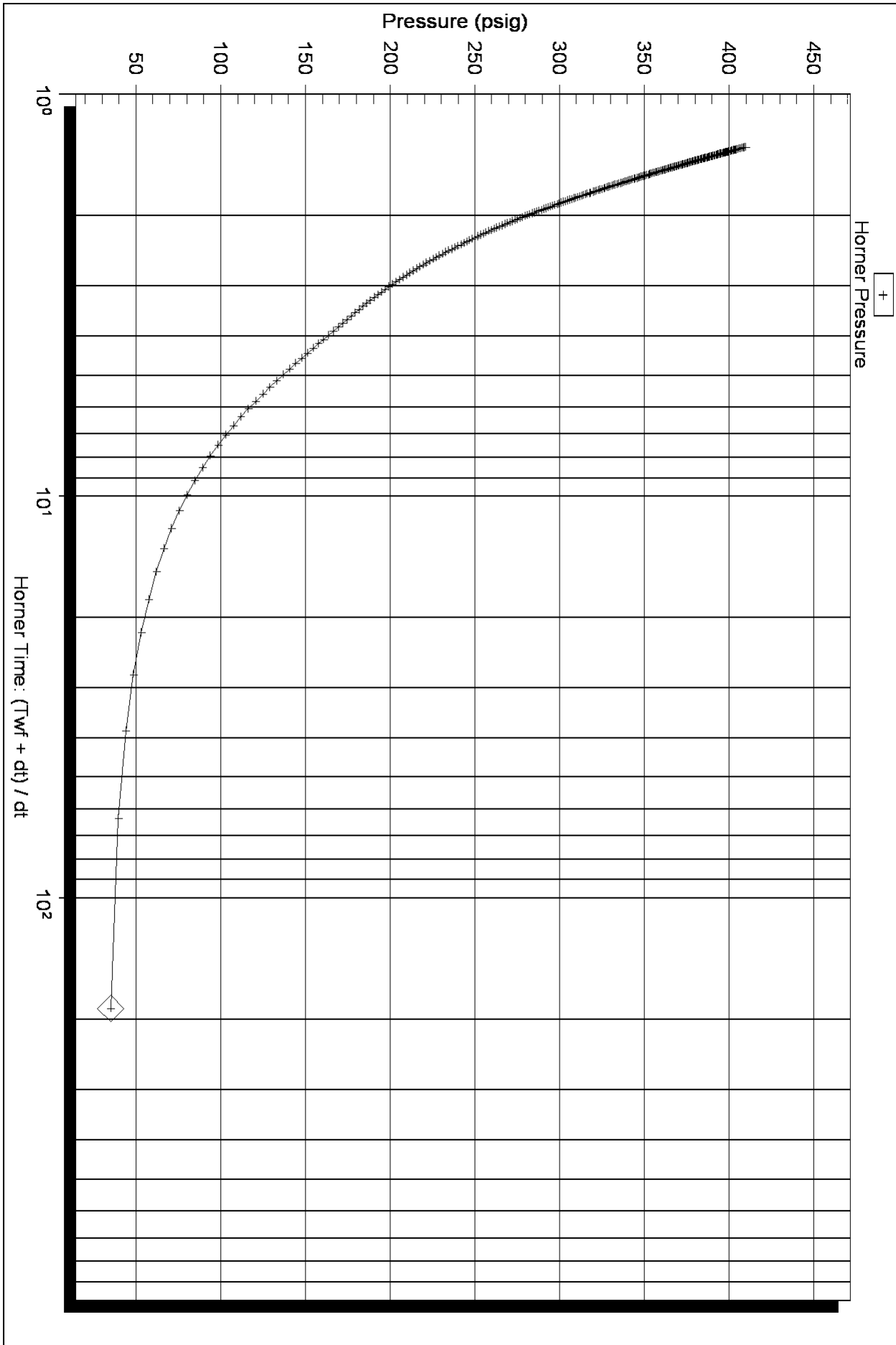
Serial Number: 8673 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



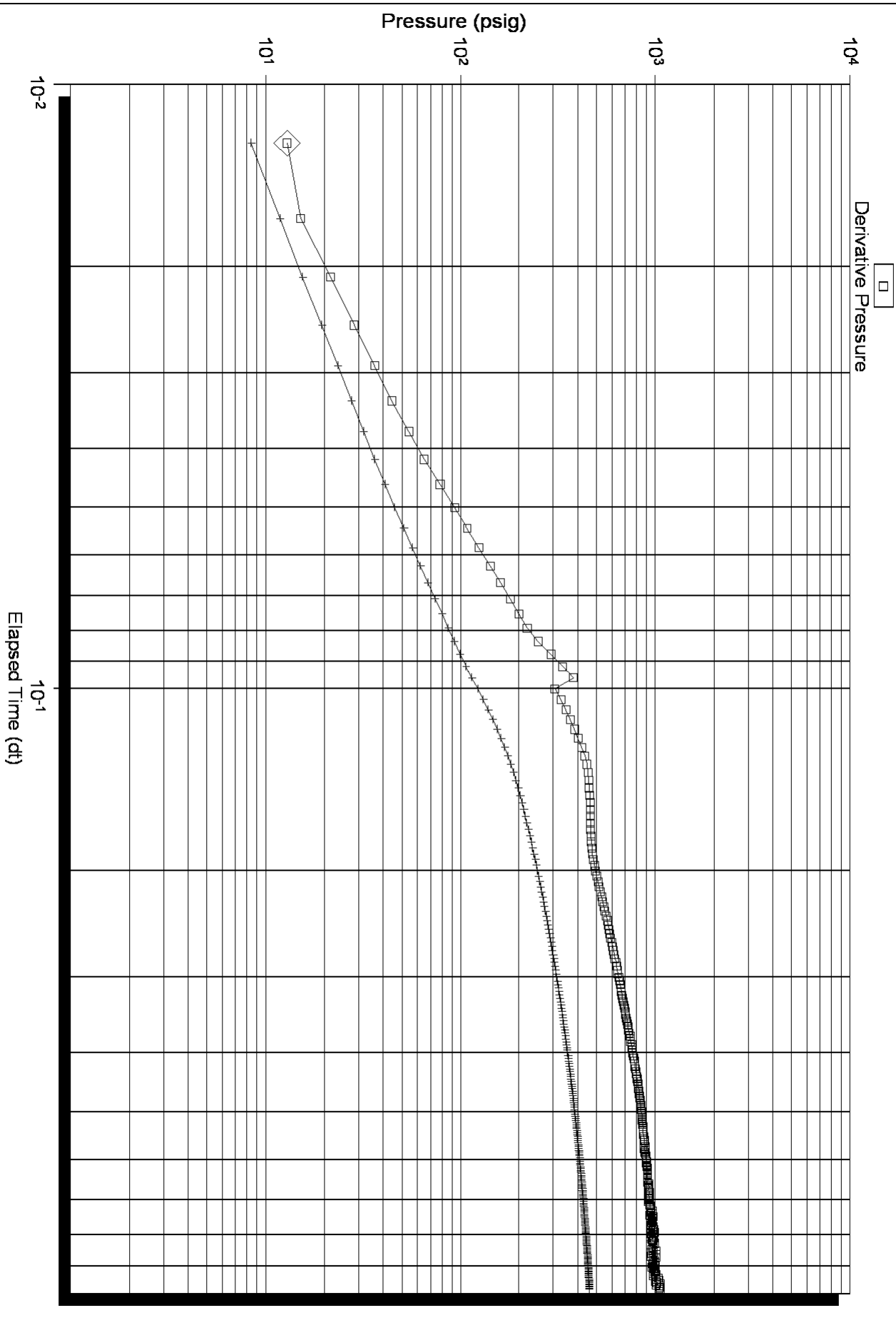
Serial Number: 8673 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Serial Number: 8673 (Inside)

Flow Cycle: 1

Log-Log and Pseudo-Derivative

