

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Assoc. inc**

1515 Wynkoop, ste 700
Denver Co. 80202

ATTN: Tom Fertal

25-16s-16w Rush co.

Maier-Schneider #1-25

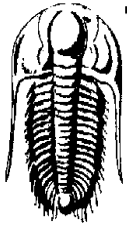
Start Date: 2010.07.24 @ 22:30:01

End Date: 2010.07.25 @ 06:35:30

Job Ticket #: 039891 DST #: 1

Trilobite Testing, Inc

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



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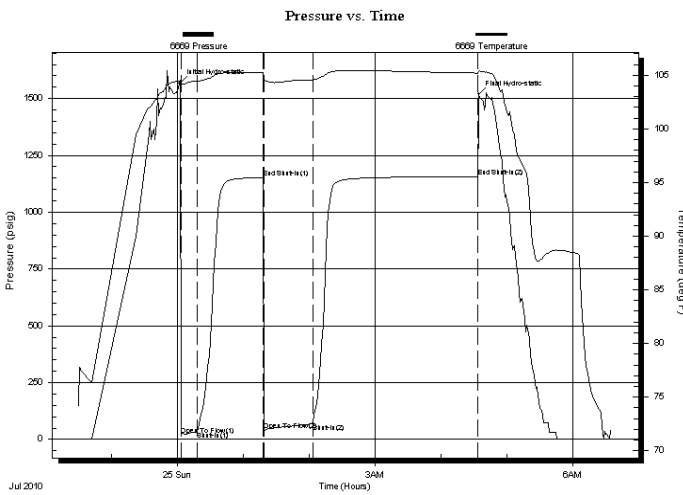
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 Test Start: 2010.07.24 @ 22:30:01

GENERAL INFORMATION:

Formation: **LKC-A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:03:00
 Time Test Ended: 06:35:30
 Interval: **3223.00 ft (KB) To 3284.00 ft (KB) (TVD)**
 Total Depth: 3284.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 53
 Reference Elevations: 1974.00 ft (KB)
 1966.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6669 **Outside**
 Press@RunDepth: 69.19 psig @ 3228.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.24 End Date: 2010.07.25 Last Calib.: 2010.07.25
 Start Time: 22:30:01 End Time: 06:35:30 Time On Btm: 2010.07.25 @ 00:02:15
 Time Off Btm: 2010.07.25 @ 04:34:30

TEST COMMENT: IF: BOB, 5min.
 IS: No Return
 FF: BOB, right away
 IS: No Return



PRESSURE SUMMARY

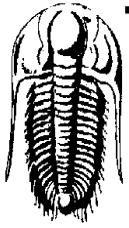
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.06	104.48	Initial Hydro-static
1	20.02	104.14	Open To Flow (1)
16	34.23	104.44	Shut-In(1)
76	1153.17	105.24	End Shut-In(1)
77	39.32	104.69	Open To Flow (2)
121	69.19	104.56	Shut-In(2)
271	1156.63	105.20	End Shut-In(2)
273	1519.43	105.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCGM g=30% o=30% m=40%	0.84
70.00	OCGM g=40% o=30% m=30%	0.98
0.00	1550ft = GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

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Maier-Schneider #1-25
25-16s-16w Rush co.
Job Ticket: 039891 **DST#: 1**
Test Start: 2010.07.24 @ 22:30:01

Tool Information

Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 3500.00 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: 54000.00 lb
			<u>Total Volume: 45.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3223.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3196.00	
Shut In Tool	5.00			3201.00	
Hydraulic tool	5.00			3206.00	
Jars	5.00			3211.00	
Safety Joint	3.00			3214.00	
Packer	5.00			3219.00	28.00 Bottom Of Top Packer
Packer	4.00			3223.00	
Stubb	1.00			3224.00	
Perforations	3.00			3227.00	
Change Over Sub	1.00			3228.00	
Recorder	0.00	8654	Inside	3228.00	
Recorder	0.00	6669	Outside	3228.00	
Drill Pipe	32.00			3260.00	
Change Over Sub	1.00			3261.00	
Perforations	20.00			3281.00	
Bullnose	3.00			3284.00	61.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



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FLUID SUMMARY

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Job Ticket: 039891

DST#: 1

ATTN: Tom Fertal

Test Start: 2010.07.24 @ 22:30:01

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCGM g=30% o=30% m=40%	0.842
70.00	OCGM g=40% o=30% m=30%	0.982
0.00	1550ft = GIP	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0

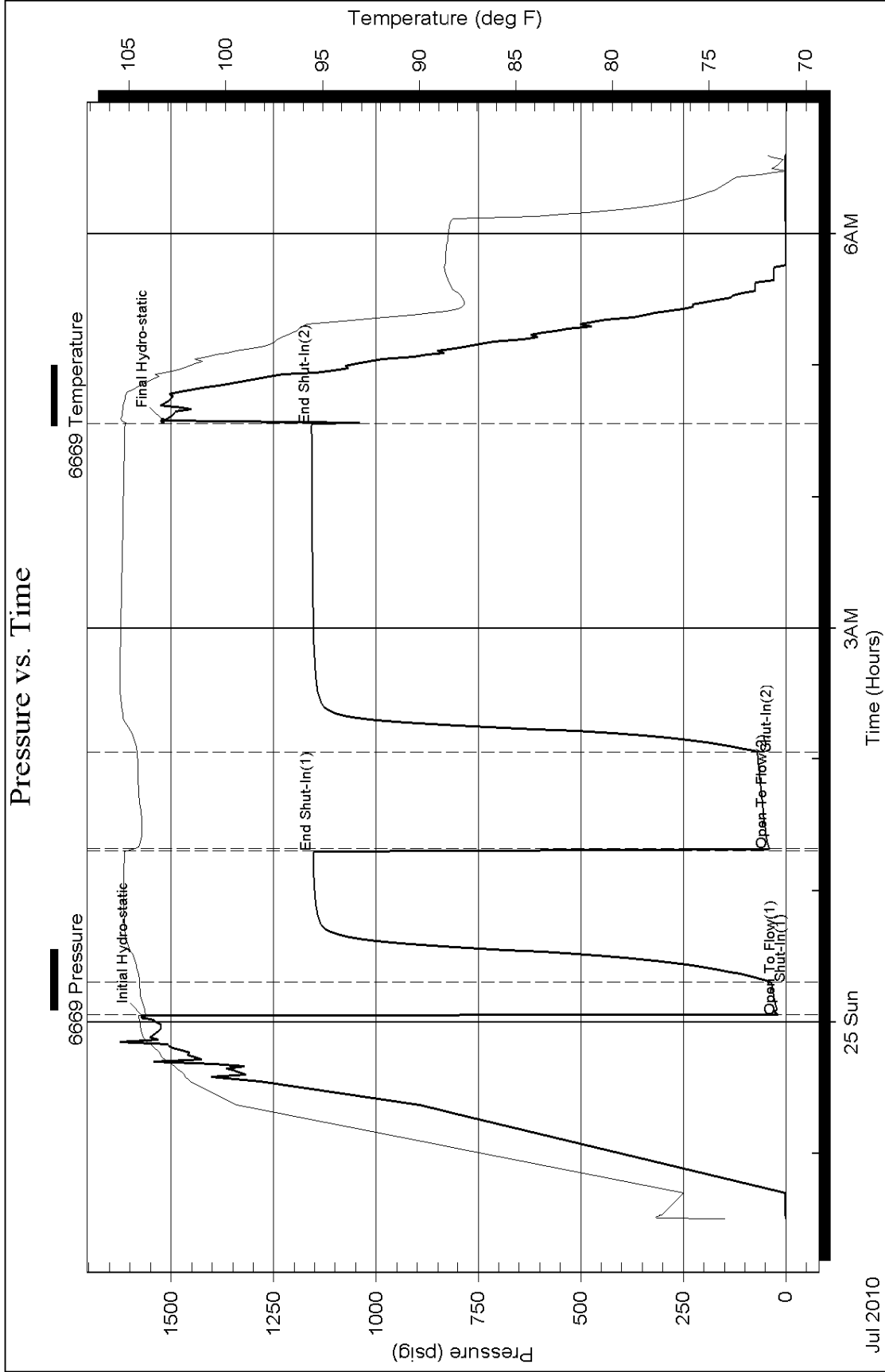
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



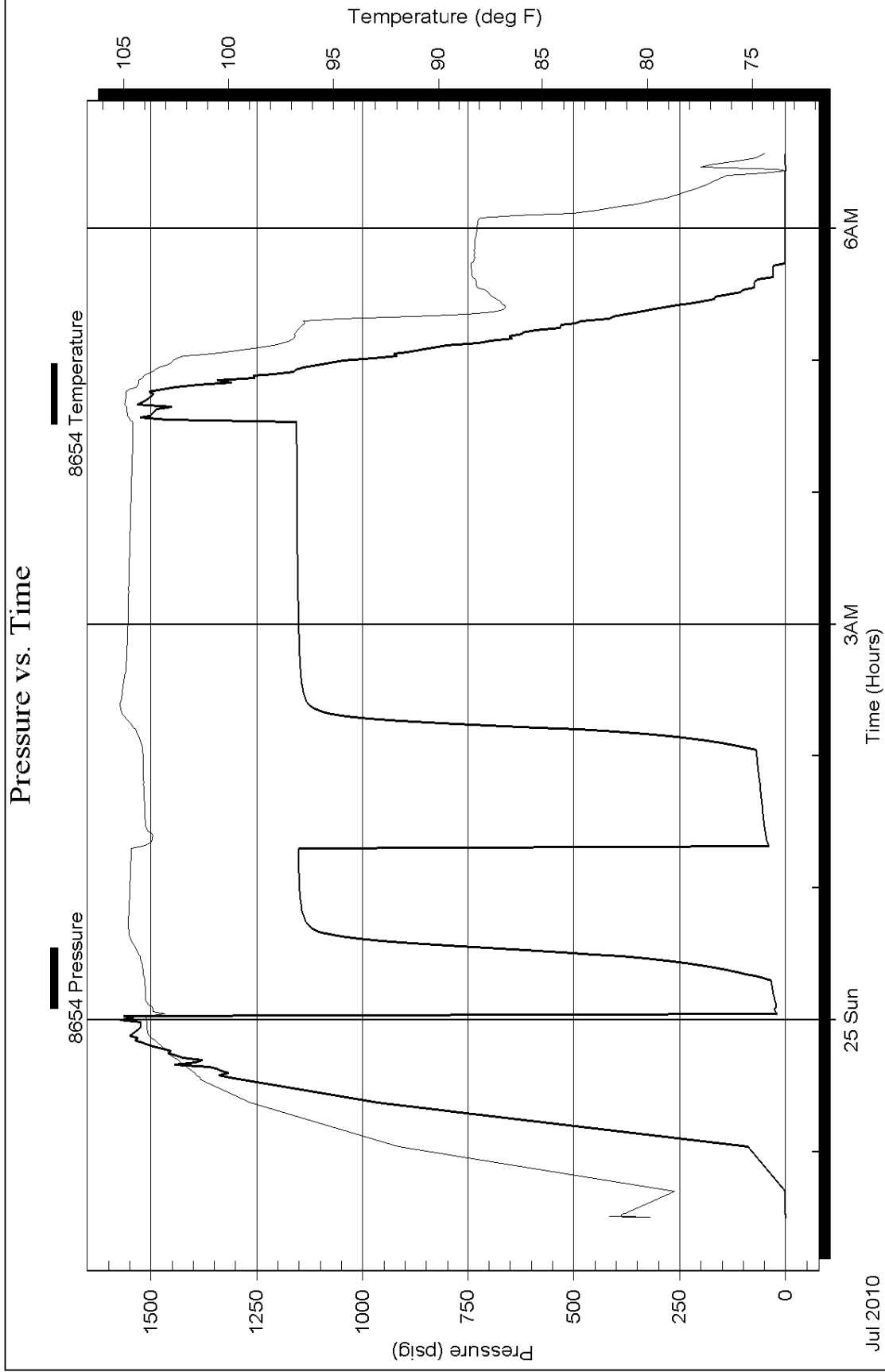
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Inside

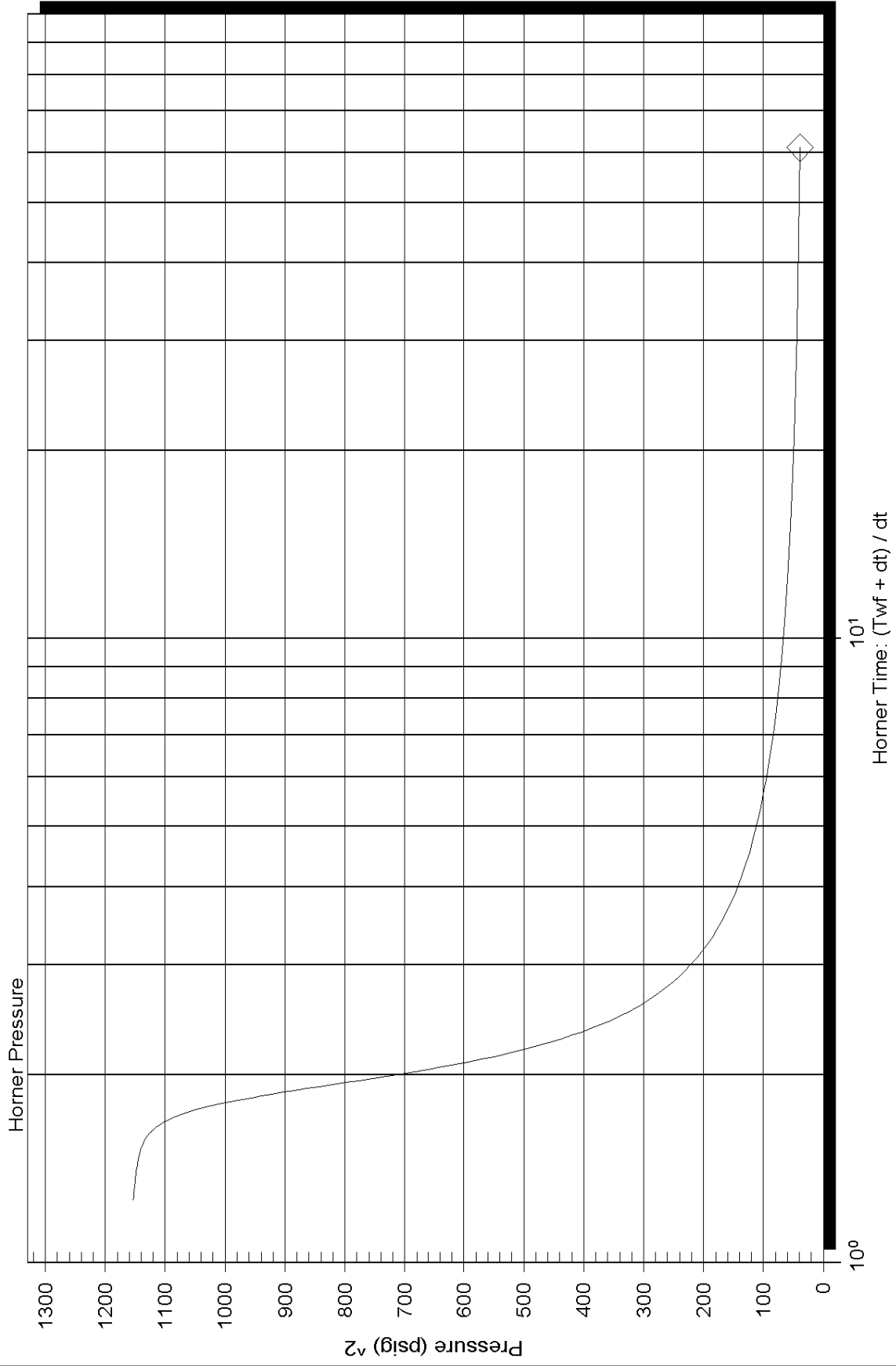
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DST Test Number: 1



Horner Plot



Serial Number: 6669 (Outside)

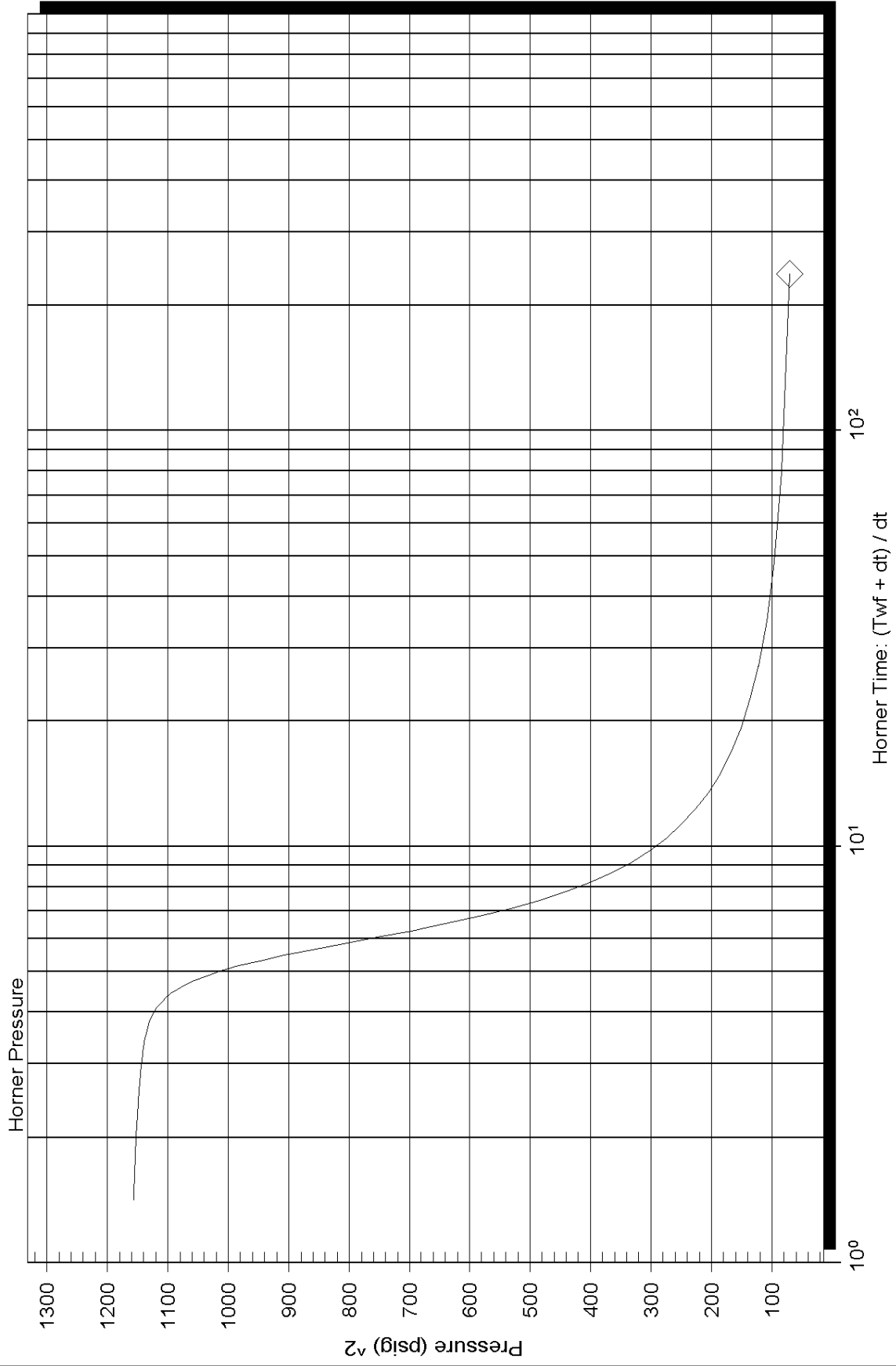
P* :

Slope (m) : kpa/log cycle

Horner Time: (Twf + dt) / dt

Flow Cycle: 1

Horner Plot

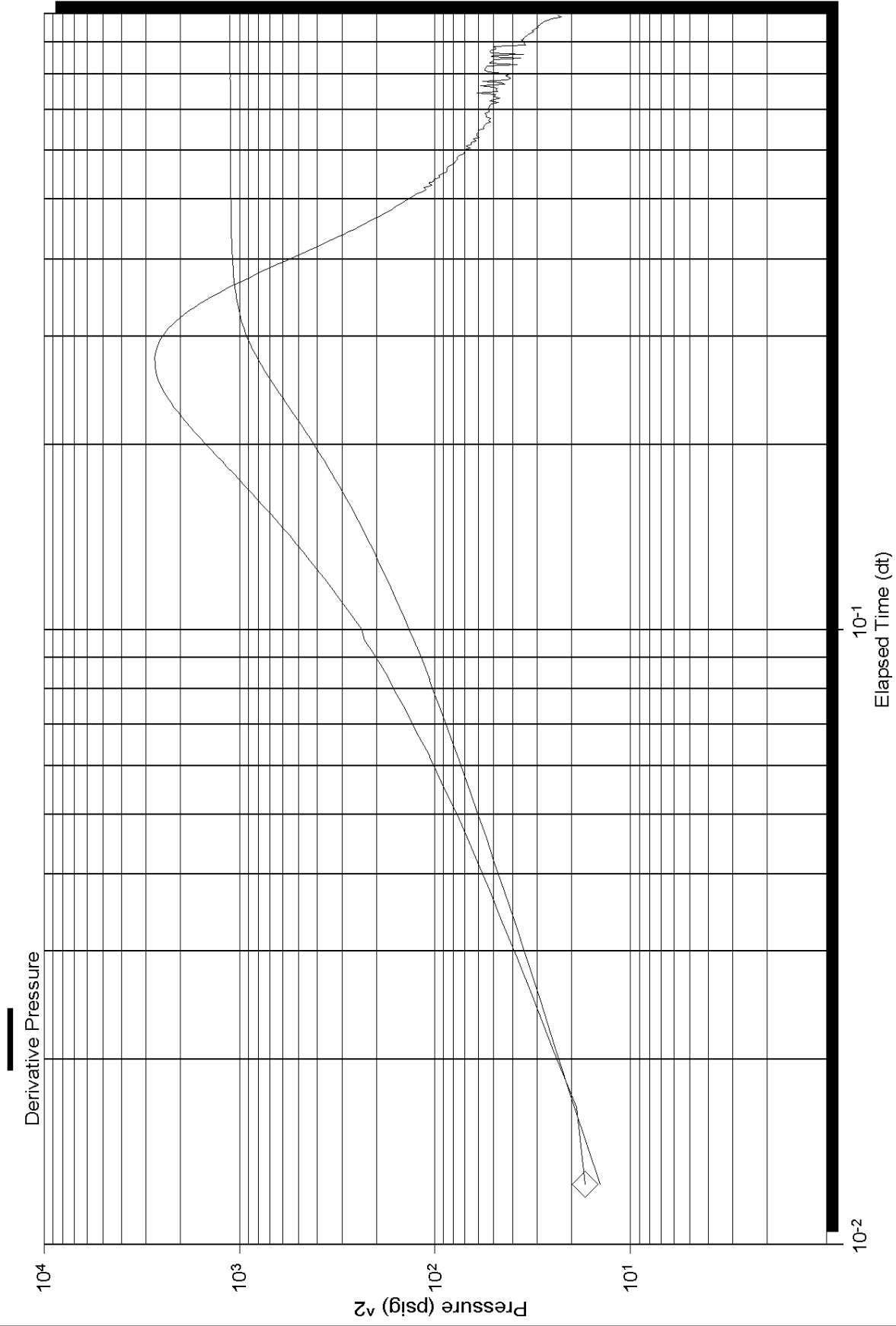


Serial Number: 6669 (Outside)

P* : Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Log-Derivative



Log-Log and Pseudo-Log-Derivative

