

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr.and assoc. Inc.**

1515 Wynkoop St.
Suite 700
Denver Co.80202

ATTN: Neil Sharp

6-21s-10w Rice

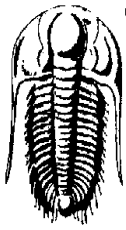
Wells Trust 1-16

Start Date: 2010.09.04 @ 06:50:05

End Date: 2010.09.04 @ 15:00:50

Job Ticket #: 040381 DST #: 2

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



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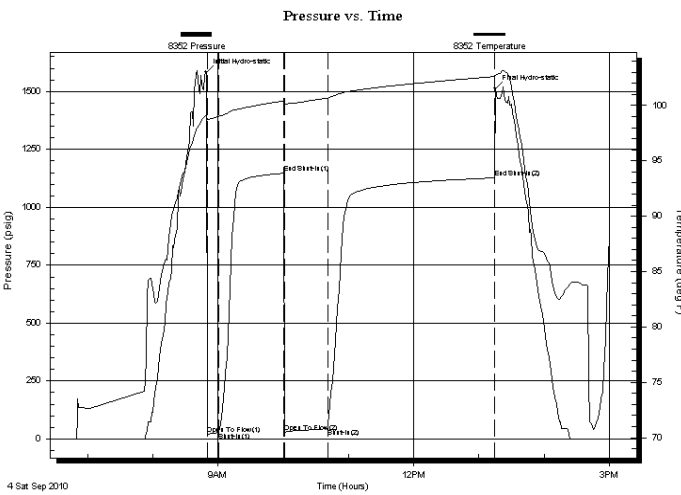
Test Start: 2010.09.04 @ 06:50:05

GENERAL INFORMATION:

Formation: **LKC-"G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:50:30
 Time Test Ended: 15:00:50
 Interval: **3128.00 ft (KB) To 3183.00 ft (KB) (TVD)**
 Total Depth: 3183.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 31
 Reference Elevations: 1739.00 ft (KB)
 1729.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8352 **Outside**
 Press@RunDepth: 44.74 psig @ 3129.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.09.04 End Date: 2010.09.04 Last Calib.: 2010.09.04
 Start Time: 06:50:05 End Time: 15:00:50 Time On Btm: 2010.09.04 @ 08:49:20
 Time Off Btm: 2010.09.04 @ 13:15:09

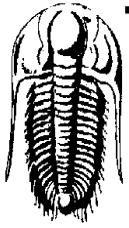
TEST COMMENT: IF: BOB, 1 min.
 IS: No return
 FF: BOB, Immediately
 FS: No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.00	99.07	Initial Hydro-static
2	20.63	98.74	Open To Flow (1)
12	27.28	99.01	Shut-In(1)
71	1146.78	100.42	End Shut-In(1)
72	28.94	100.13	Open To Flow (2)
112	44.74	100.68	Shut-In(2)
265	1126.70	102.62	End Shut-In(2)
266	1513.24	102.73	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
92.00	GOCWM g=30%o=25%w =15%m=30%	1.29
0.00	1952=GIP	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3127.00 ft	Diameter: 3.80 inches	Volume: 43.86 bbl	Tool Weight: 3000.00 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
			<u>Total Volume: 43.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3128.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			3101.00	
Shut In Tool	5.00			3106.00	
Hydraulic tool	5.00			3111.00	
Jars	5.00			3116.00	
Safety Joint	3.00			3119.00	
Packer	5.00			3124.00	28.00 Bottom Of Top Packer
Packer	4.00			3128.00	
Stubb	1.00			3129.00	
Recorder	0.00	8017	Inside	3129.00	
Recorder	0.00	8352	Outside	3129.00	
Perforations	3.00			3132.00	
Change Over Sub	1.00			3133.00	
Drill Pipe	31.00			3164.00	
Change Over Sub	1.00			3165.00	
Perforations	15.00			3180.00	
Bullnose	3.00			3183.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



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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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
92.00	GOCWM g=30%o=25%w =15%m=30%	1.291
0.00	1952=GIP	0.000

Total Length: 92.00 ft Total Volume: 1.291 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

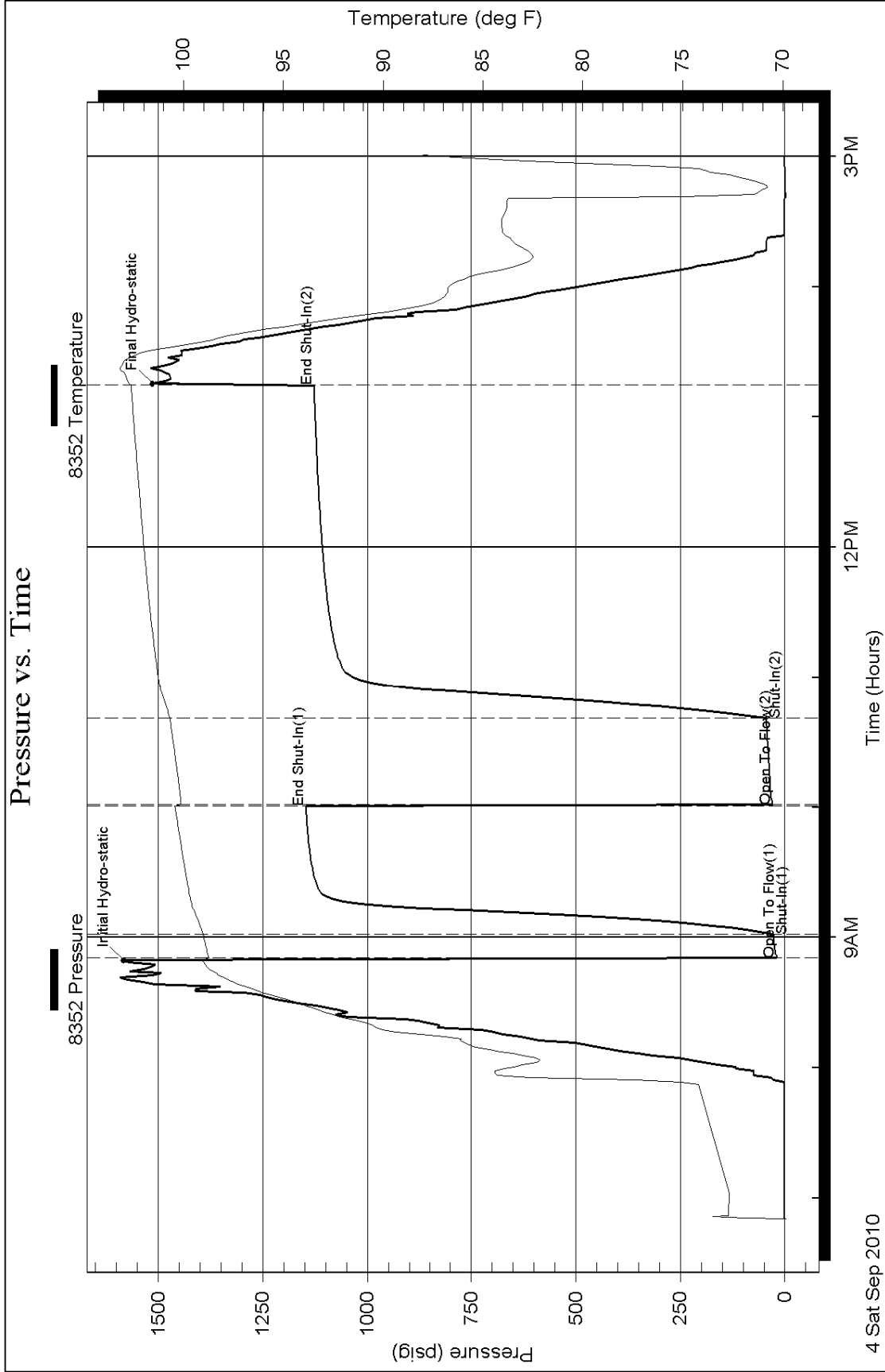
Serial #: 8352

Outside

Sam Gary Jr. and assoc. Inc.

6-21s-10w Rice

DST Test Number: 2



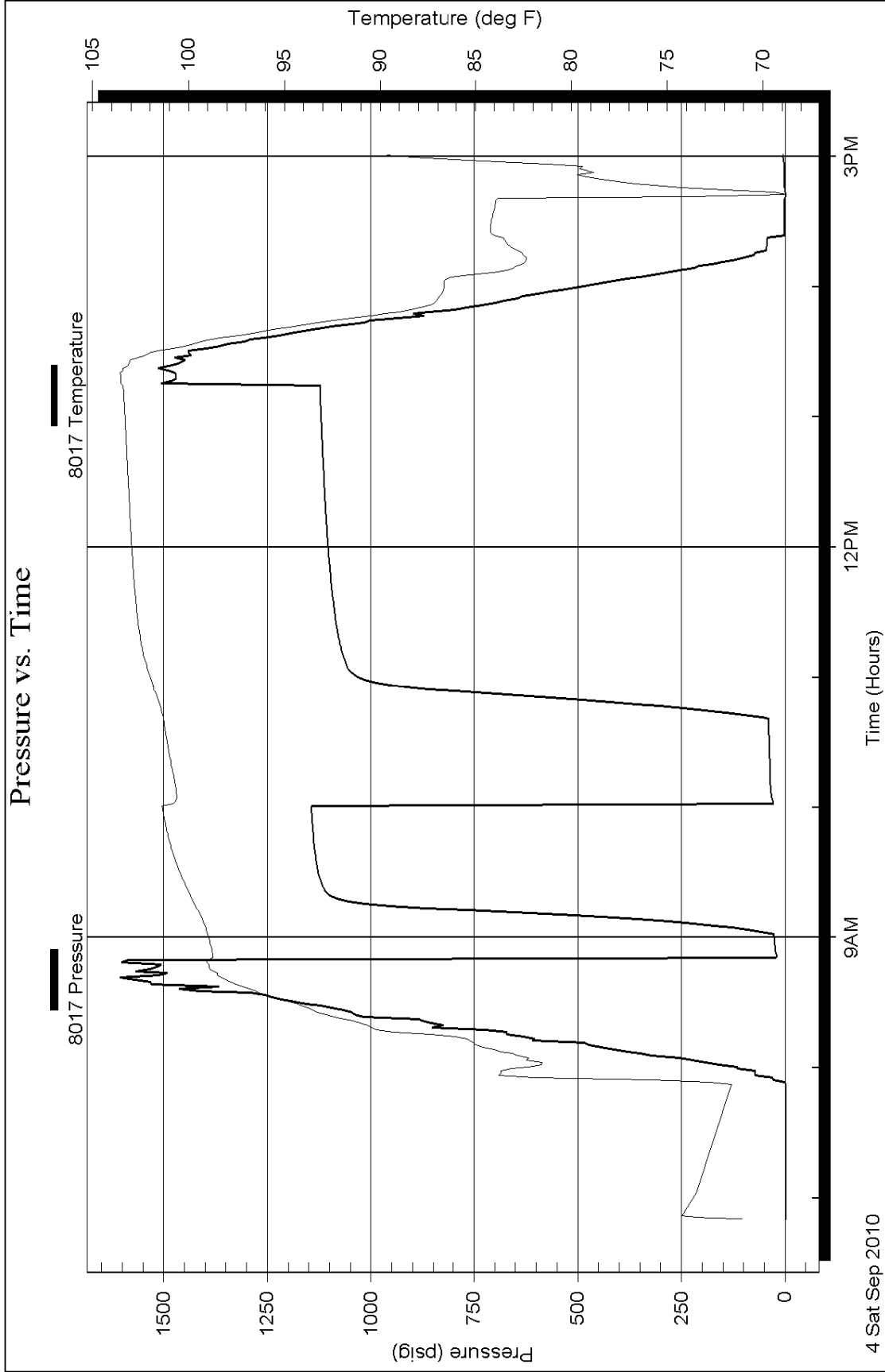
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Inside

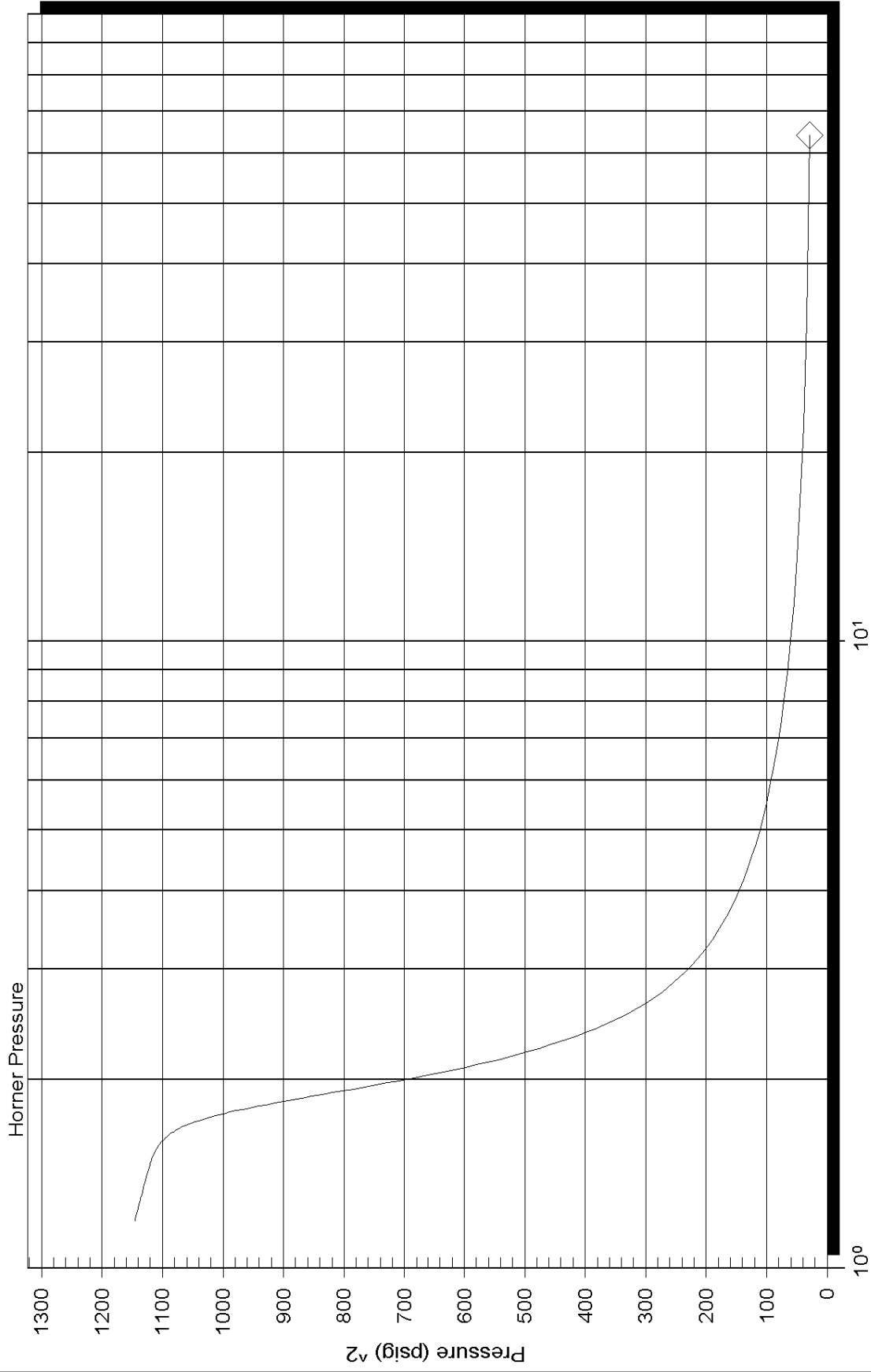
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DST Test Number: 2



Horner Plot



Serial Number: 8352 (Outside)

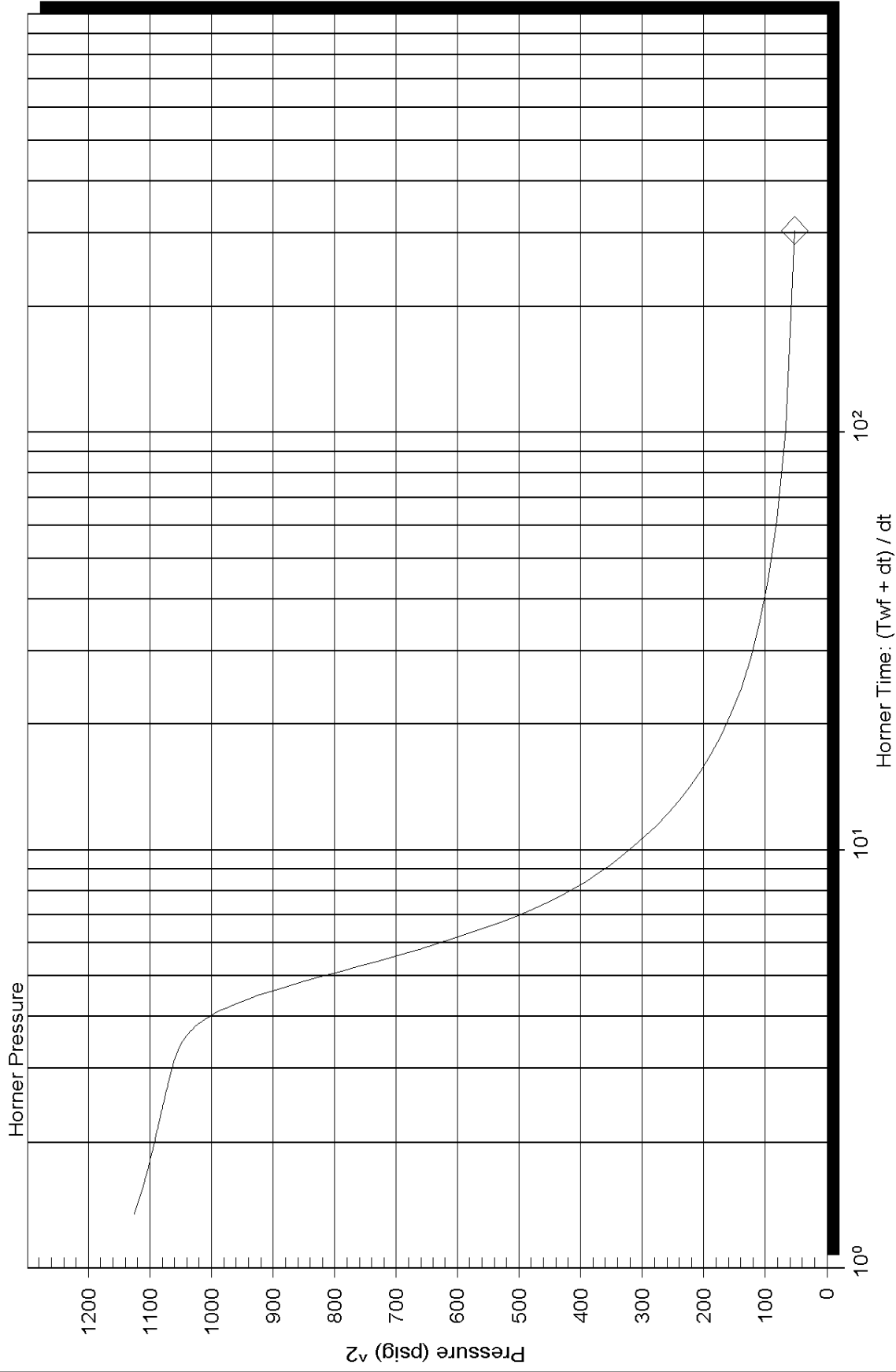
P* :

Slope (m) : kpa/log cycle

Horner Time: (Twf + dt) / dt

Flow Cycle: 1

Horner Plot



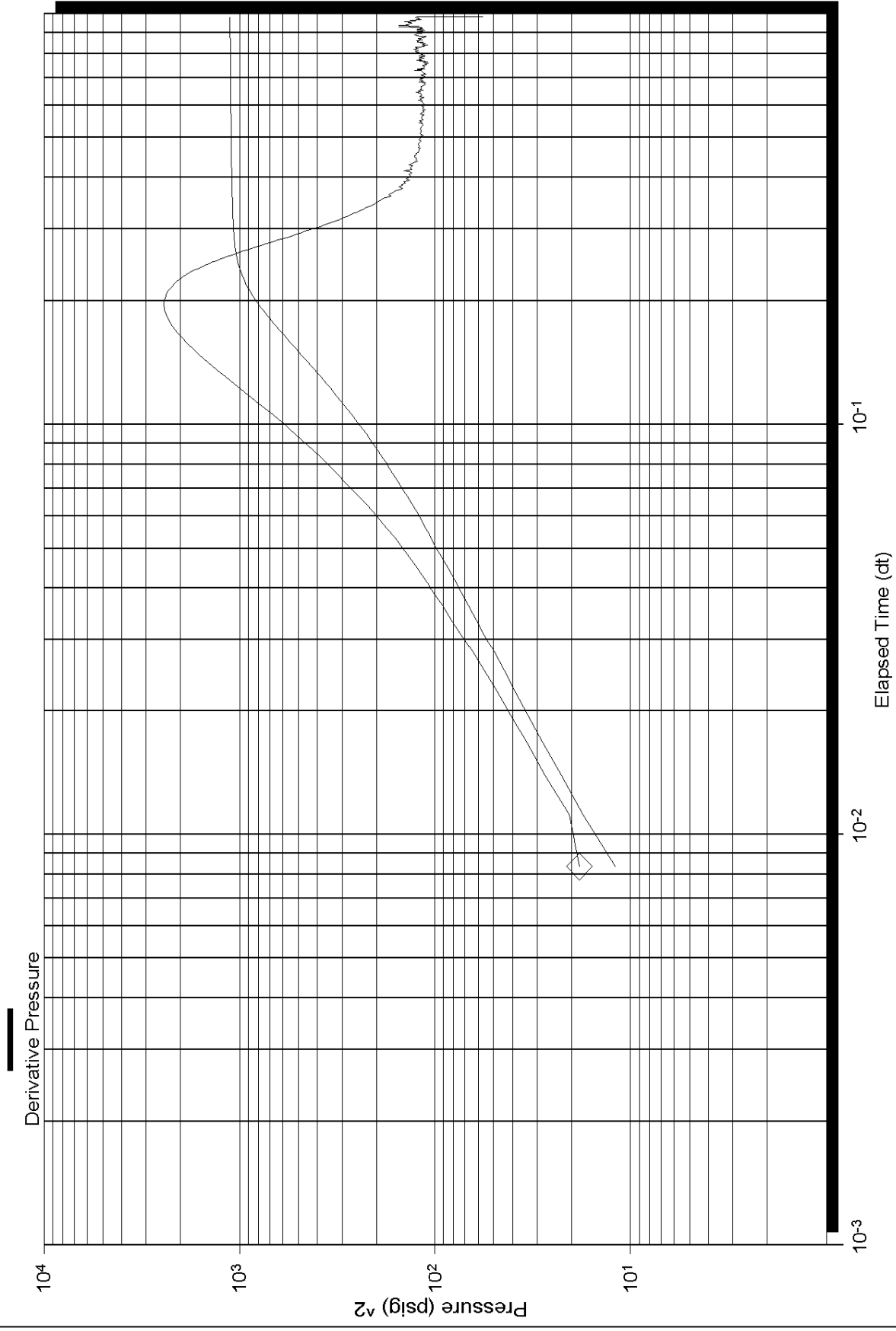
Serial Number: 8352 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

