

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

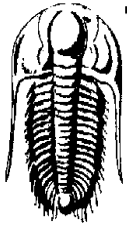
Start Date: 2010.07.26 @ 07:58:54

End Date: 2010.07.26 @ 13:41:24

Job Ticket #: 39893 DST #: 3

Trilobite Testing, Inc

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr & Assoc. inc
 1515 Wynkoop, ste 700
 Denver Co. 80202
 ATTN: Tom Fertal

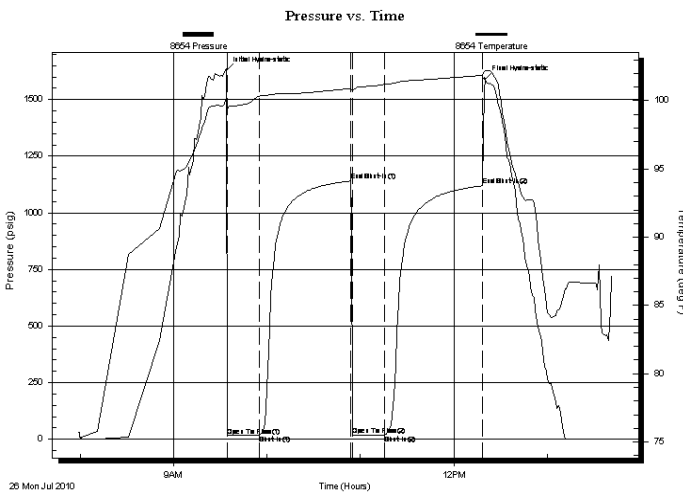
Maier-Schneider #1-25
25-16s-16w Rush co.
 Job Ticket: 39893 **DST#: 3**
 Test Start: 2010.07.26 @ 07:58:54

GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:34:24
 Time Test Ended: 13:41:24
 Test Type: Conventional Bottom Hole
 Tester: Dustin Rash
 Unit No: 53
 Interval: **3341.00 ft (KB) To 3355.00 ft (KB) (TVD)**
 Total Depth: 3355.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Reference Elevations: 1974.00 ft (KB)
 1966.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8654 Inside
 Press@RunDepth: 17.88 psig @ 3342.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.26 End Date: 2010.07.26 Last Calib.: 2010.07.26
 Start Time: 07:58:55 End Time: 13:41:24 Time On Btm: 2010.07.26 @ 09:33:54
 Time Off Btm: 2010.07.26 @ 12:19:54

TEST COMMENT: IF-Weak surface blow . Built to 1/4 inch. Dying off.
 IS-No blow back.
 FF-No blow .
 FSI-No blow back.



PRESSURE SUMMARY

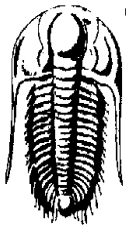
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.69	100.02	Initial Hydro-static
1	15.01	99.33	Open To Flow (1)
21	17.47	100.33	Shut-In(1)
80	1140.13	100.89	End Shut-In(1)
81	17.68	100.70	Open To Flow (2)
102	17.88	101.21	Shut-In(2)
165	1119.32	101.85	End Shut-In(2)
166	1592.01	102.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud/Skim of oil.	0.14

Gas Rates

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



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25-16s-16w Rush co.
Job Ticket: 39893 **DST#: 3**
Test Start: 2010.07.26 @ 07:58:54

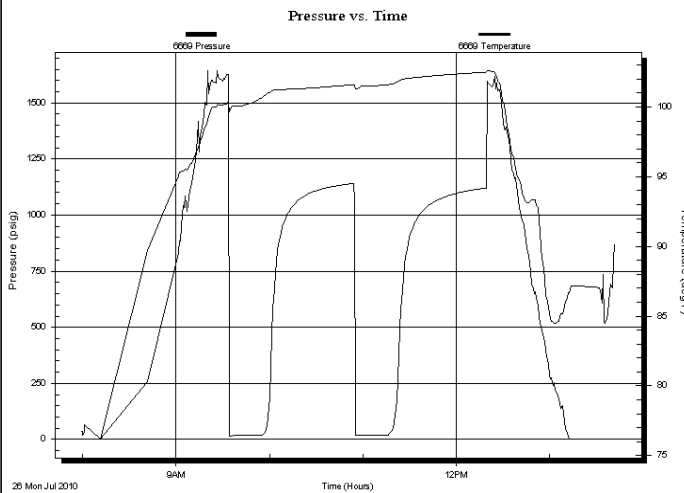
GENERAL INFORMATION:

Formation: **Lansing G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:34:24
Time Test Ended: 13:41:24
Interval: **3341.00 ft (KB) To 3355.00 ft (KB) (TVD)**
Total Depth: 3355.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Dustin Rash
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: psig @ 3342.00 ft (KB)
Start Date: 2010.07.26 End Date: 2010.07.26 Capacity: 8000.00 psig
Start Time: 07:59:15 End Time: 13:42:29 Last Calib.: 2010.07.26
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Weak surface blow . Built to 1/4 inch. Dying off.
IS-No blow back.
FF-No blow .
FSI-No blow back.



PRESSURE SUMMARY

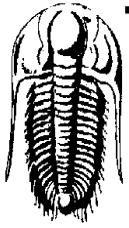
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud/Skim of oil.	0.14

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Assoc. inc

Maier-Schneider #1-25

1515 Wynkoop, ste 700
Denver Co. 80202

25-16s-16w Rush co.

Job Ticket: 39893

DST#: 3

ATTN: Tom Fertal

Test Start: 2010.07.26 @ 07:58:54

Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 46.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3341.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 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			3314.00	
Shut In Tool	5.00			3319.00	
Hydraulic tool	5.00			3324.00	
Jars	5.00			3329.00	
Safety Joint	3.00			3332.00	
Packer	5.00			3337.00	28.00 Bottom Of Top Packer
Packer	4.00			3341.00	
Stubb	1.00			3342.00	
Recorder	0.00	8654	Inside	3342.00	
Recorder	0.00	6669	Outside	3342.00	
Perforations	10.00			3352.00	
Bullnose	3.00			3355.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



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FLUID SUMMARY

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25-16s-16w Rush co.

Job Ticket: 39893

DST#: 3

ATTN: Tom Fertal

Test Start: 2010.07.26 @ 07:58:54

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in ³	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 bbl
10.00	100%Mud/Skim of oil.	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

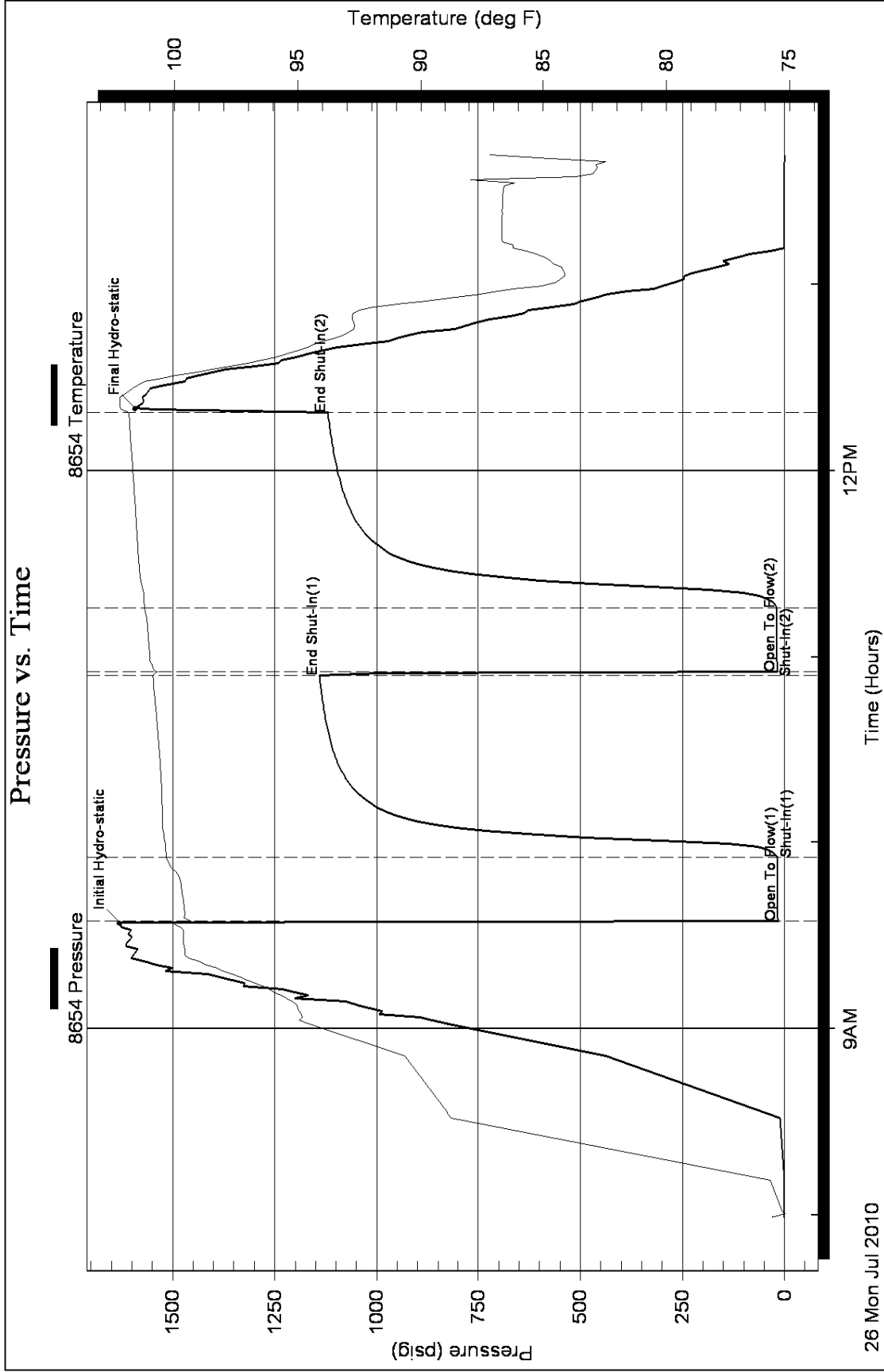
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

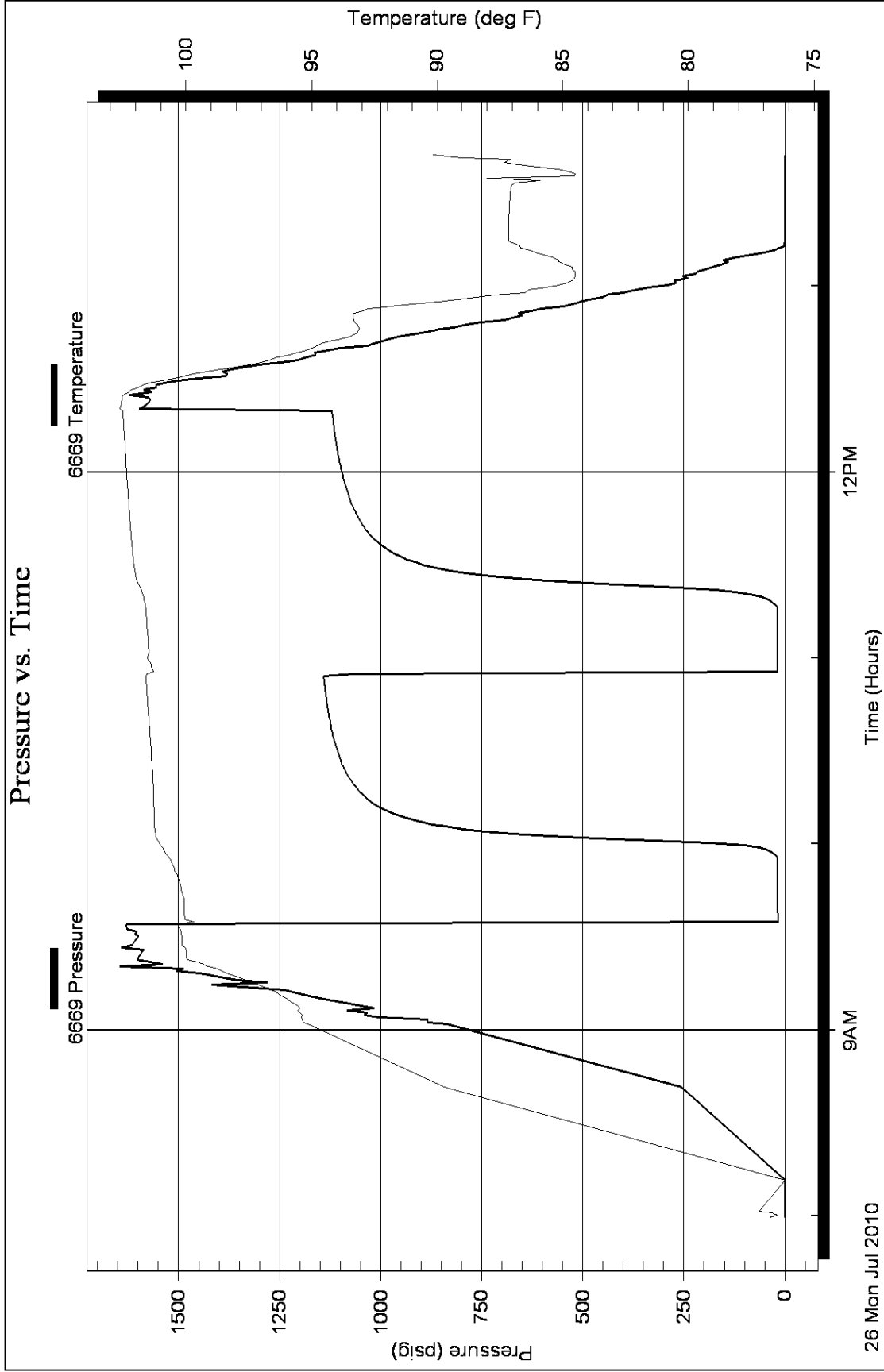


Serial #: 6669

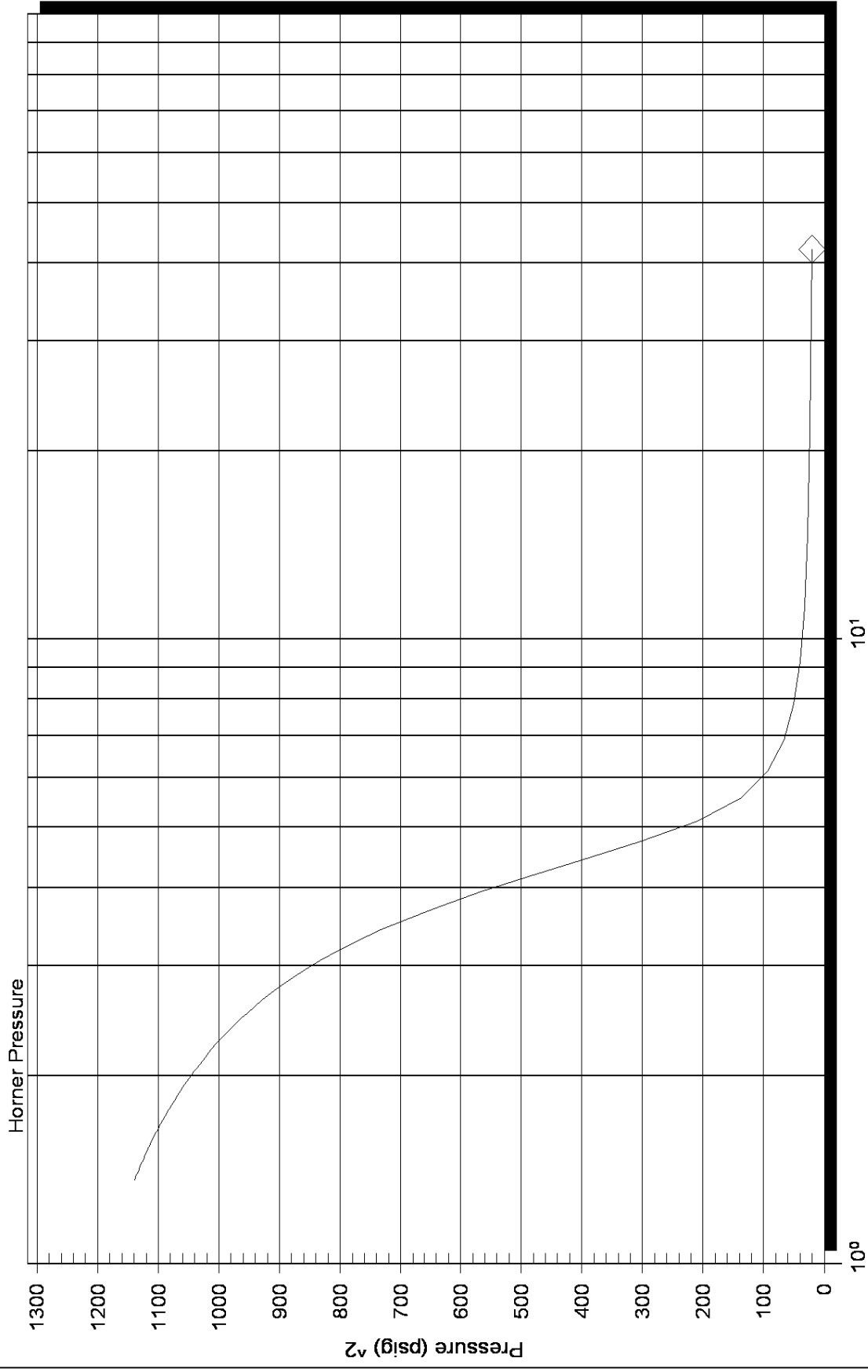
Outside Sam Gary Jr & Assoc. inc

25-16s-16w Rush co.

DST Test Number: 3



Homer Plot



Serial Number: 8654 (Inside)

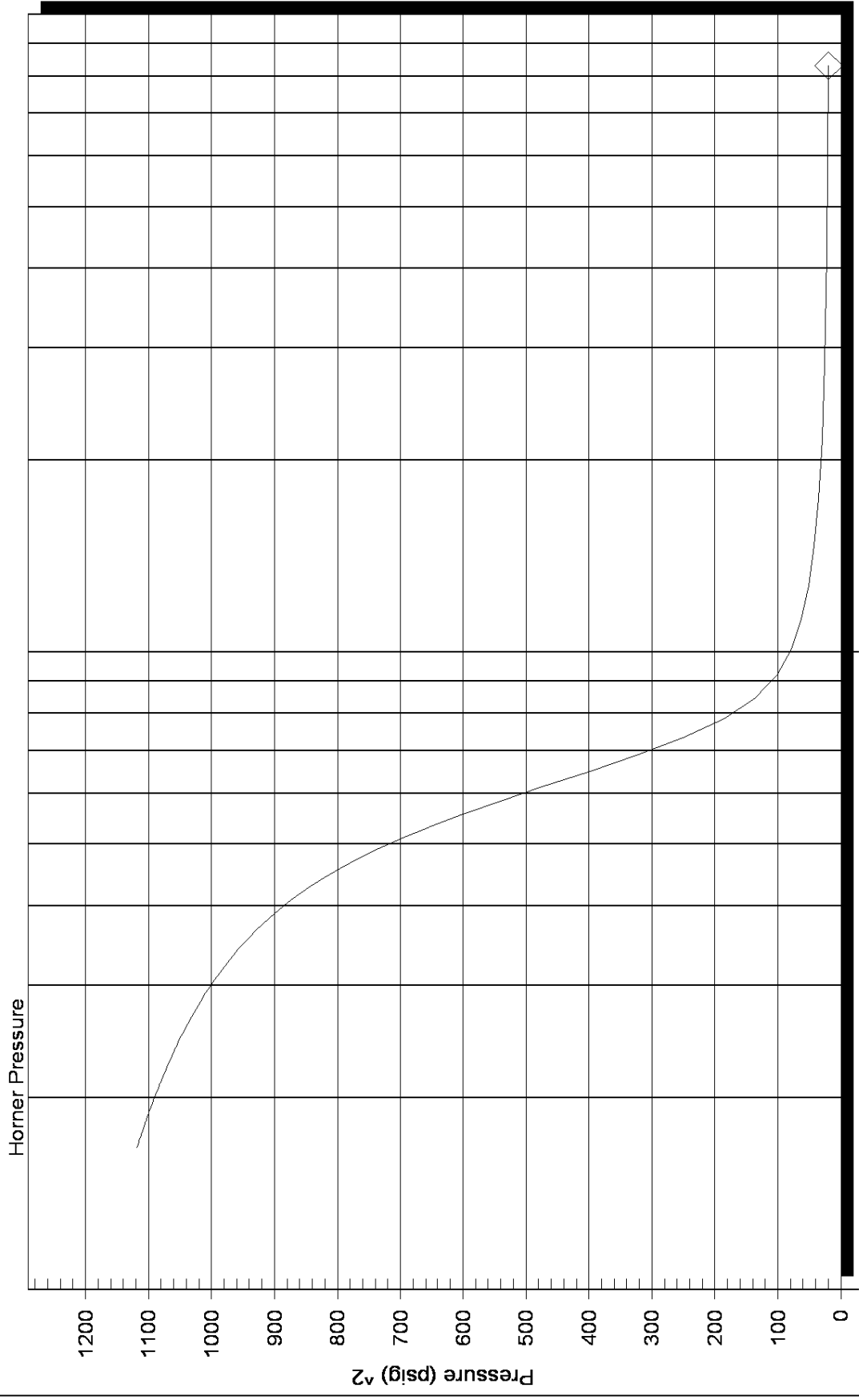
Slope (m) : kpa/log cycle

P* :

Horner Time: (Twf + dt) / dt

Flow Cycle: 1

Homer Plot



10⁰

10¹

Horner Time: (Twf + dt) / dt

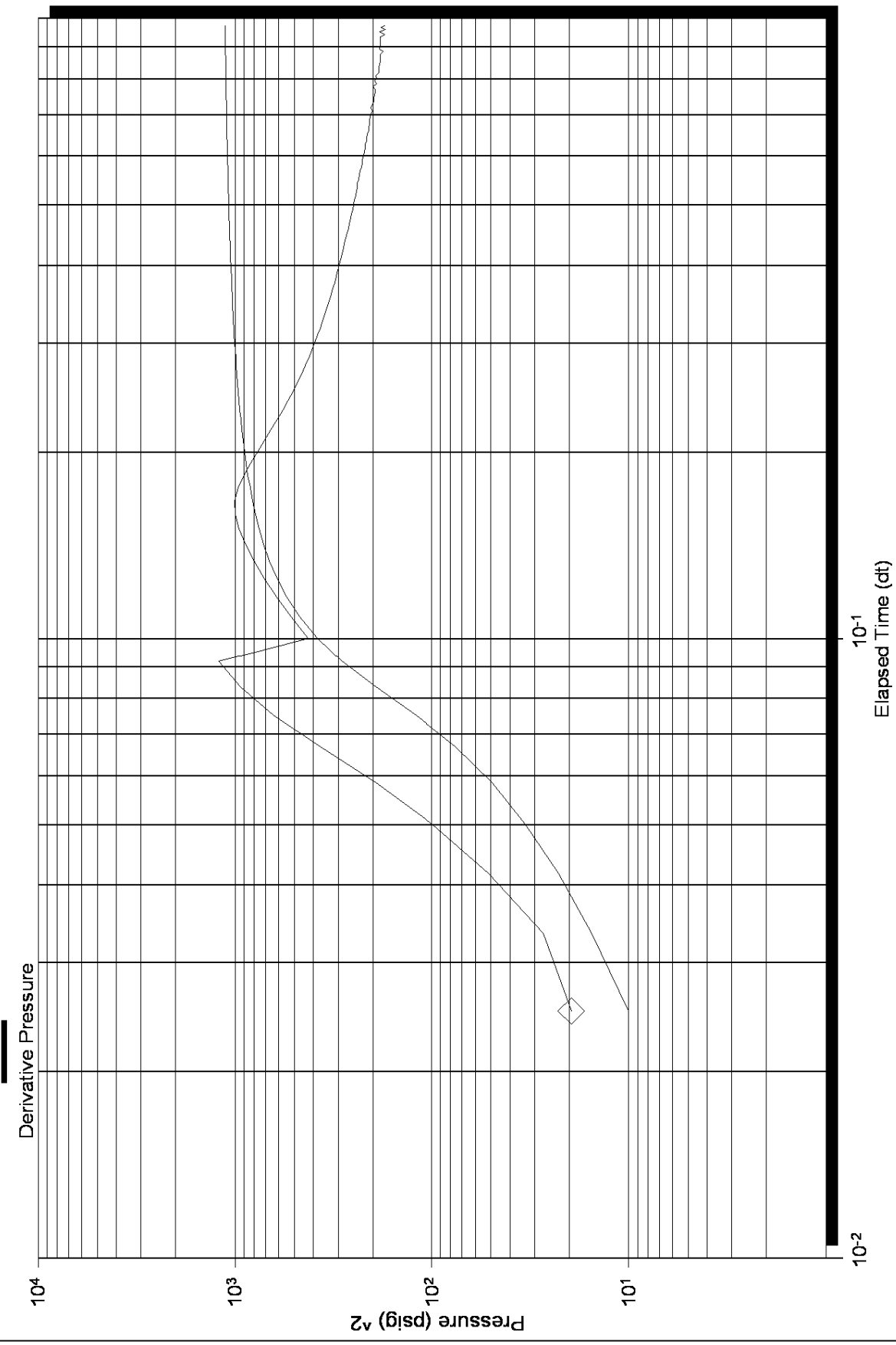
Serial Number: 8654 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

