



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr&Assoc Inc**

1515 Wynkoop
Ste 700
Denver Ks 80202

ATTN: Clayton Camozzi

19-17s-15w Barton

Stos-Stos #1-19

Start Date: 2010.07.10 @ 02:36:32

End Date: 2010.07.10 @ 10:39:26

Job Ticket #: 39853 DST #: 2

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39853 **DST#: 2**
Test Start: 2010.07.10 @ 02:36:32

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:24:27
 Time Test Ended: 10:39:26
 Interval: **3550.00 ft (KB) To 3612.00 ft (KB) (TVD)**
 Total Depth: 3612.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2027.00 ft (KB)
 2017.00 ft (CF)
 KB to GR/CF: 10.00 ft

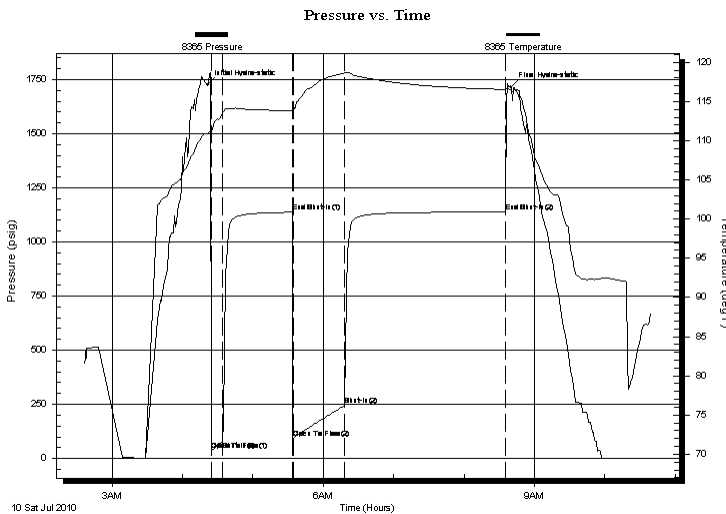
Serial #: 8365

Inside

Press @ Run Depth: 243.99 psig @ 3552.01 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.10 End Date: 2010.07.10 Last Calib.: 2010.07.10
 Start Time: 02:36:32 End Time: 10:39:26 Time On Btm: 2010.07.10 @ 04:21:27
 Time Off Btm: 2010.07.10 @ 08:39:56

TEST COMMENT: IFP-w k to strg in 7 min
 FFP-w k to strg in 15 min
 Times 10-60-45-135
 no bl on shut-in

PRESSURE SUMMARY



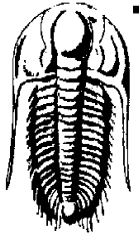
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.69	110.95	Initial Hydro-static
3	38.25	110.81	Open To Flow (1)
13	79.75	113.48	Shut-In(1)
72	1137.67	113.87	End Shut-In(1)
73	95.15	113.87	Open To Flow (2)
117	243.99	118.63	Shut-In(2)
254	1138.83	116.53	End Shut-In(2)
259	1716.83	116.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	CO	0.42
100.00	OCM 20%O80%M	1.40
186.00	SOCMW 5%O10%M85%W	2.61
248.00	Water	3.48

Gas Rates

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



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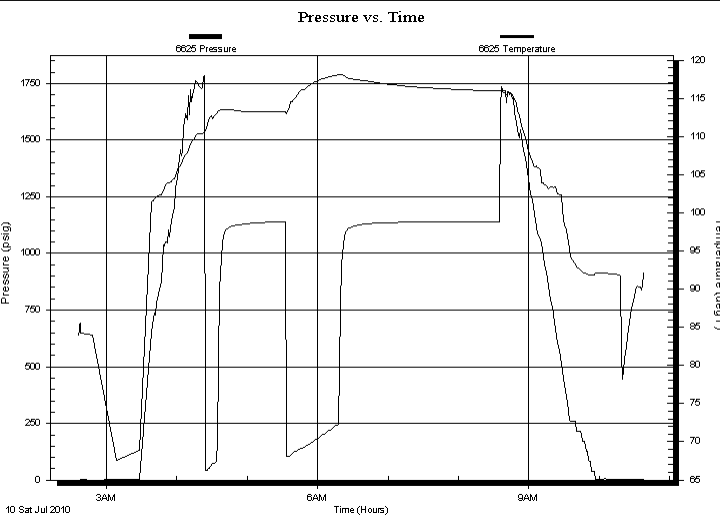
19-17s-15w Barton
Job Ticket: 39853 **DST#: 2**
Test Start: 2010.07.10 @ 02:36:32

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Interval: **3550.00 ft (KB) To 3612.00 ft (KB) (TVD)**
Total Depth: 3612.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 2027.00 ft (KB)
2017.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6625 Outside
Press @ Run Depth: psig @ 3552.02 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.10 End Date: 2010.07.10 Last Calib.: 2010.07.10
Start Time: 02:36:21 End Time: 10:38:45 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-w k to strg in 7 min
FFP-w k to strg in 15 min
Times 10-60-45-135
no bl on shut-in



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

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	CO	0.42
100.00	OCM 20%O80%M	1.40
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248.00	Water	3.48

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



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TOOL DIAGRAM

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39853

DST#: 2

Test Start: 2010.07.10 @ 02:36:32

Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3550.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.02 ft			
Tool Length:	90.02 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			3523.00	
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Jars	5.00			3538.00	
Safety Joint	2.00			3540.00	
Packer	5.00			3545.00	28.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Recorder	0.01	8365	Inside	3552.01	
Recorder	0.01	6625	Outside	3552.02	
Blank Spacing	32.00			3584.02	
Perforations	25.00			3609.02	
Bullnose	3.00			3612.02	62.02 Bottom Packers & Anchor

Total Tool Length: 90.02



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FLUID SUMMARY

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Job Ticket: 39853

DST#: 2

Test Start: 2010.07.10 @ 02:36:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	CO	0.421
100.00	OCM 20%O80%M	1.403
186.00	SOCMW 5%O10%M85%W	2.609
248.00	Water	3.479

Total Length: 564.00 ft Total Volume: 7.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

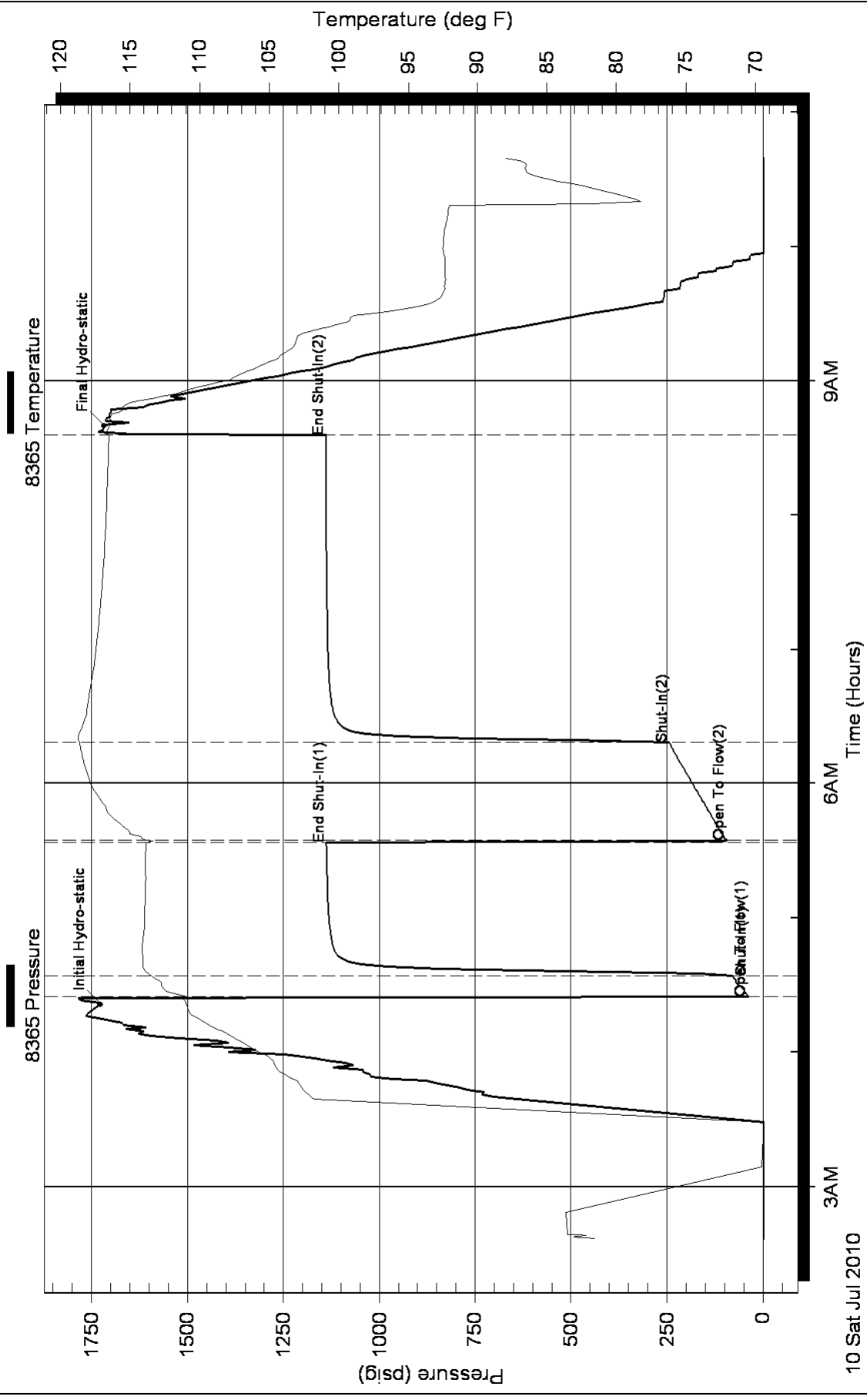
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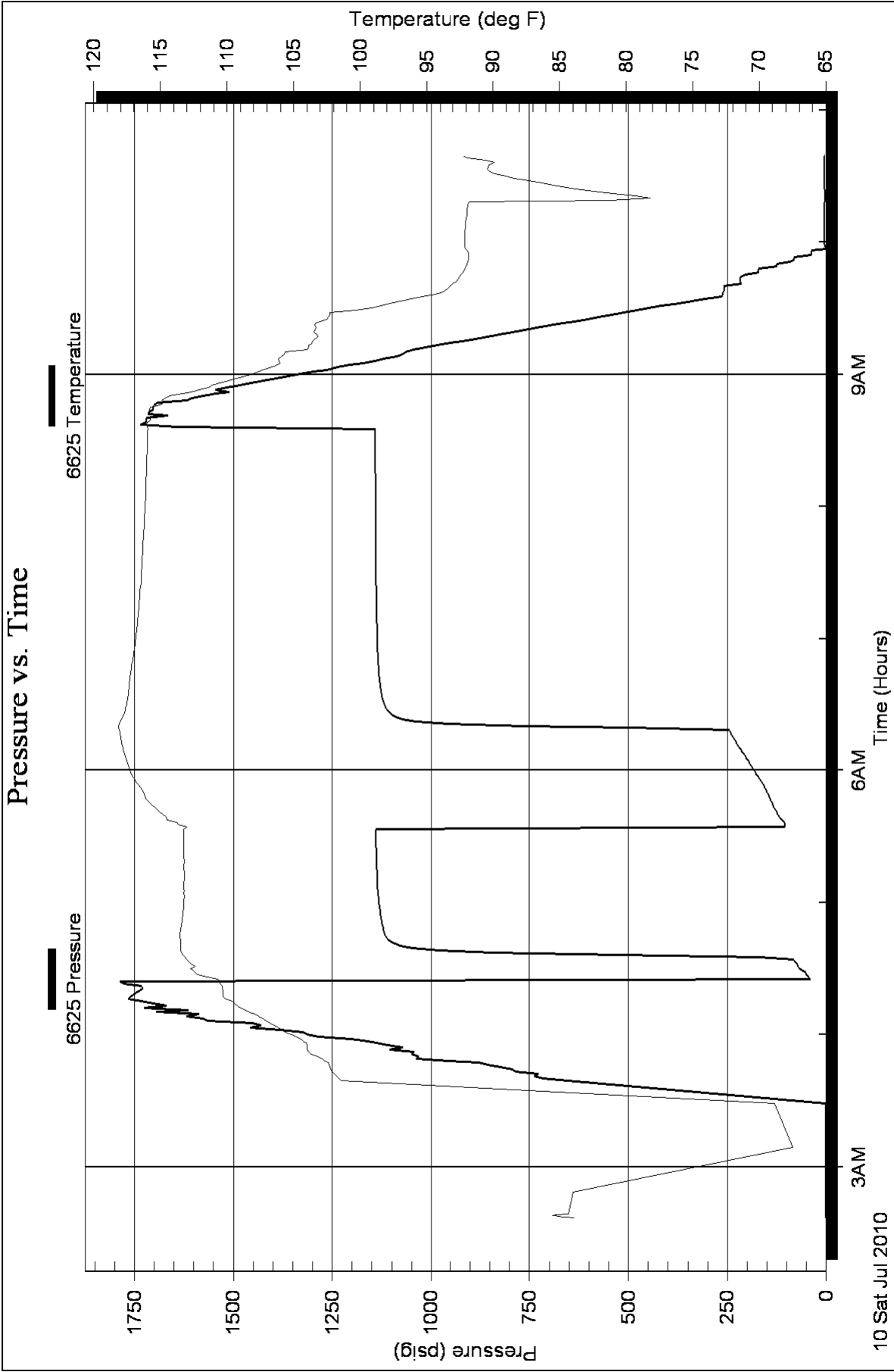
Laboratory Name:

Laboratory Location:

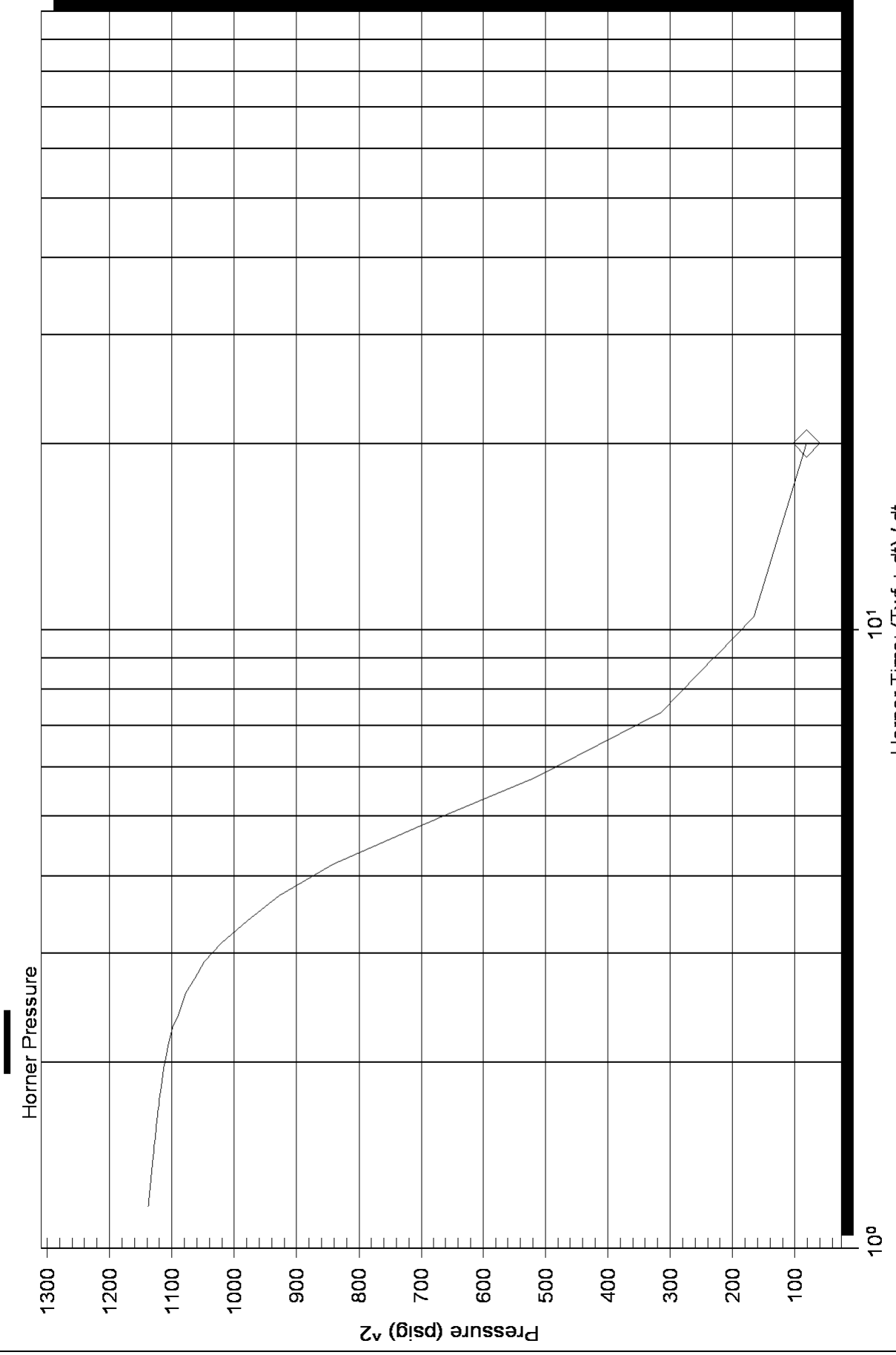
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Pressure vs. Time

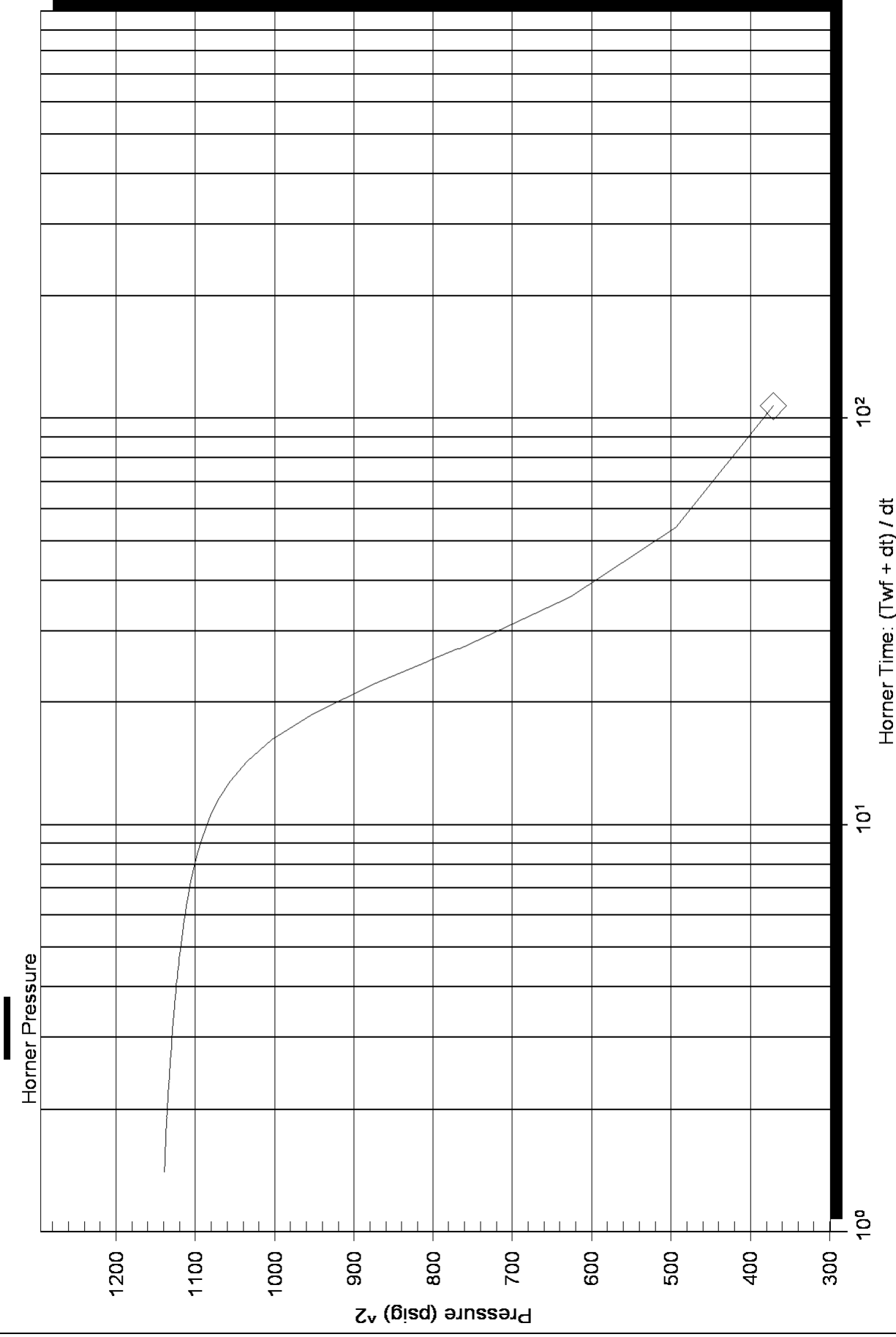




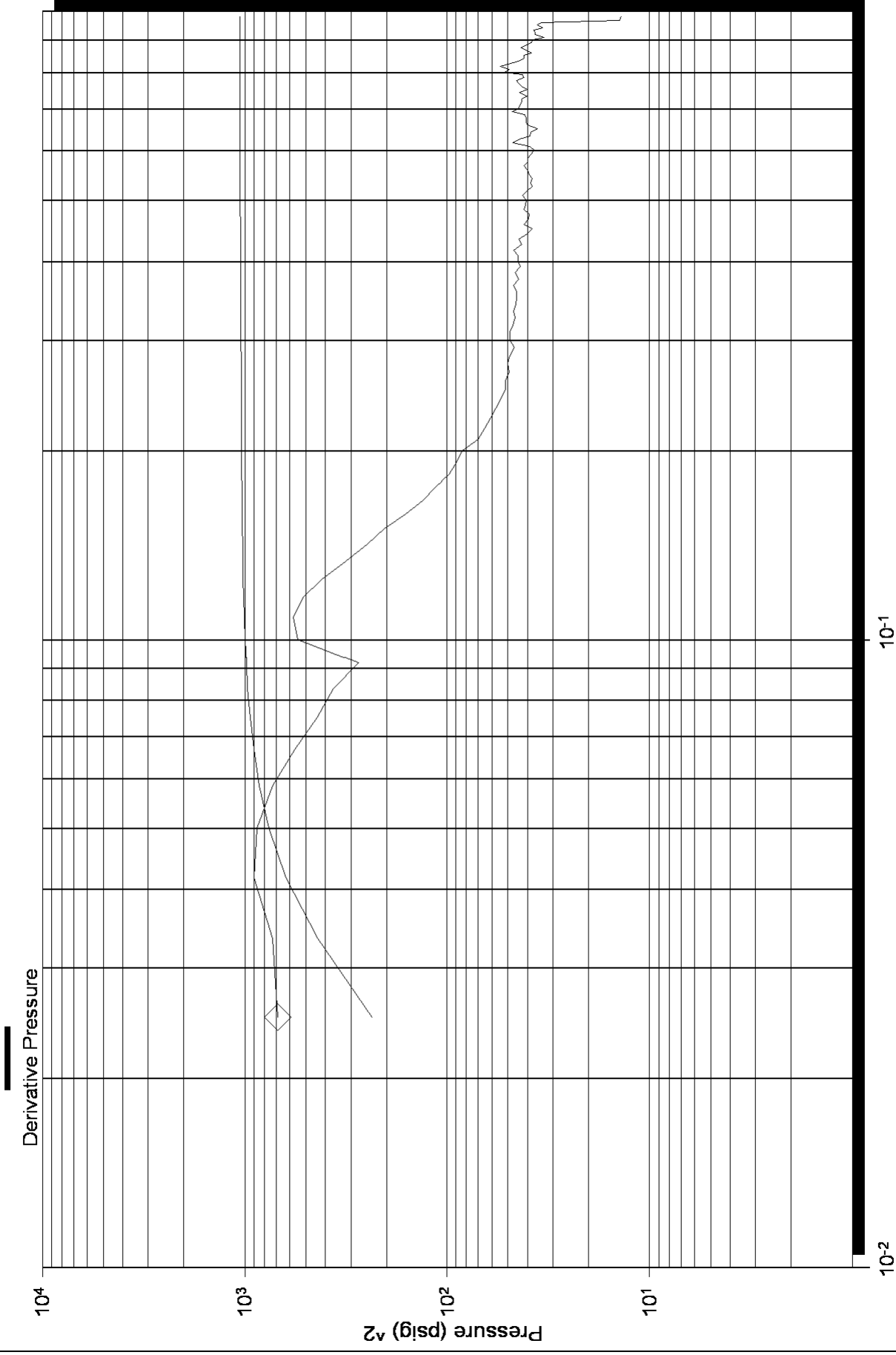
Homer Plot



Homer Plot



Log-Log and Pseudo-Log-Derivative



Log-Log and Pseudo-Derivative

