



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

7-16s-16w Rush Ks.

Stramel #1-7

Start Date: 2010.12.15 @ 09:29:22

End Date: 2010.12.15 @ 16:46:37

Job Ticket #: 039292 DST #: 1

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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Stramel #1-7

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7-16s-16w Rush Ks.

ATTN: Clayton Camozzi

Job Ticket: 039292

DST#: 1

Test Start: 2010.12.15 @ 09:29:22

GENERAL INFORMATION:

Formation: **Lans. F - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:45:52

Time Test Ended: 16:46:37

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 3304.00 ft (KB) To 3350.00 ft (KB) (TVD)

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1949.00 ft (KB)

1942.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8167 Inside

Press @ Run Depth: 108.43 psig @ 3305.00 ft (KB)

Start Date: 2010.12.15

End Date:

2010.12.15

Start Time: 09:29:27

End Time:

16:46:36

Capacity: 8000.00 psig

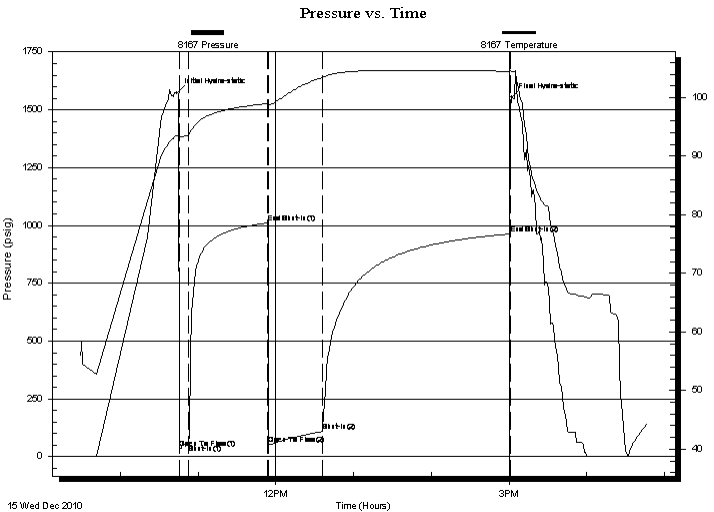
Last Calib.: 2010.12.15

Time On Btm: 2010.12.15 @ 10:43:52

Time Off Btm: 2010.12.15 @ 15:02:07

TEST COMMENT: IF: Strong blow . B.O.B. in 5 mins.
IS: No blow .
FF: Strong blow . B.O.B. in 13 mins.
FS: Weak blow . 1/2 - 1 1/2".

PRESSURE SUMMARY



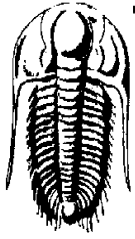
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.97	93.56	Initial Hydro-static
2	36.72	93.27	Open To Flow (1)
9	55.28	93.69	Shut-In(1)
70	1011.21	99.00	End Shut-In(1)
71	53.98	98.84	Open To Flow (2)
112	108.43	103.44	Shut-In(2)
257	963.33	104.51	End Shut-In(2)
259	1553.66	104.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	205 ft. of GIP	0.00
80.00	GOCM 15%g 25%o 60%m	1.12
110.00	MW /w o specs. 18%m 82%w	1.54
0.00	RW .12 ohms @ 43 deg.	0.00

Gas Rates

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



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Stramel #1-7

7-16s-16w Rush Ks.

Job Ticket: 039292 **DST#: 1**
Test Start: 2010.12.15 @ 09:29:22

GENERAL INFORMATION:

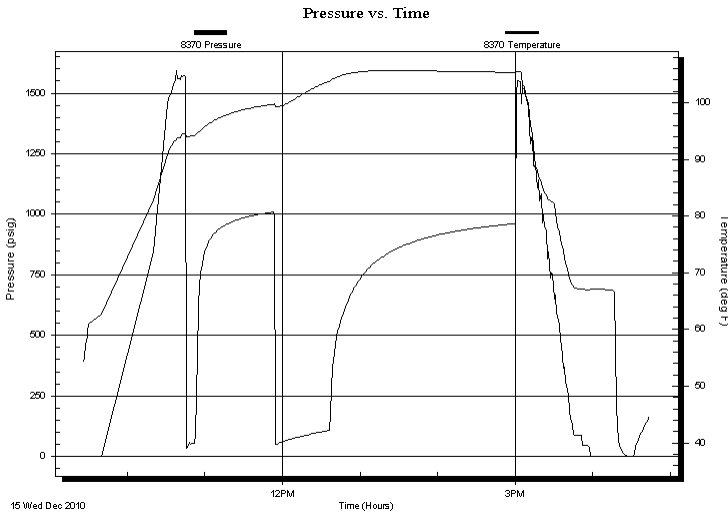
Formation: **Lans.F - G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:45:52
 Time Test Ended: 16:46:37
 Interval: **3304.00 ft (KB) To 3350.00 ft (KB) (TVD)**
 Total Depth: 3350.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Gary Pevoteaux
 Unit No: 39
 Reference Elevations: 1949.00 ft (KB)
 1942.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8370 Outside

Press @ Run Depth: psig @ 3305.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.12.15 End Date: 2010.12.15 Last Calib.: 2010.12.15
 Start Time: 09:26:19 End Time: 16:44:28 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 5 mins.
 IS: No blow .
 FF: Strong blow . B.O.B. in 13 mins.
 FS: Weak blow . 1/2 - 1 1/2".

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	205 ft. of GIP	0.00
80.00	GOCM 15%g 25%o 60%m	1.12
110.00	MW /w o specs. 18%m 82%w	1.54
0.00	RW .12 ohms @ 43 deg.	0.00

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039292

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.12.15 @ 09:29:22

Tool Information

Drill Pipe:	Length: 3292.00 ft	Diameter: 3.80 inches	Volume: 46.18 bbl	Tool Weight: 2400.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3304.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3275.00	
Shut in tool	5.00			3280.00	
Sampler	2.00			3282.00	
HMV	5.00			3287.00	
Jars	5.00			3292.00	
Safety Joint	3.00			3295.00	
Packer	4.00			3299.00	30.00 Bottom Of Top Packer
Packer	5.00			3304.00	
Stubb	1.00			3305.00	
Recorder	0.00	8167	Inside	3305.00	
Recorder	0.00	8370	Outside	3305.00	
Perforations	40.00			3345.00	
Bullnose	5.00			3350.00	46.00 Bottom Packers & Anchor

Total Tool Length: 76.00



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FLUID SUMMARY

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DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.12.15 @ 09:29:22

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: 119000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	205 ft. of GIP	0.000
80.00	GOCM 15%g 25%o 60%m	1.122
110.00	MW /w o specs. 18%m 82%w	1.543
0.00	RW .12 ohms @ 43 deg.	0.000

Total Length: 190.00 ft Total Volume: 2.665 bbl

Num Fluid Samples: 0

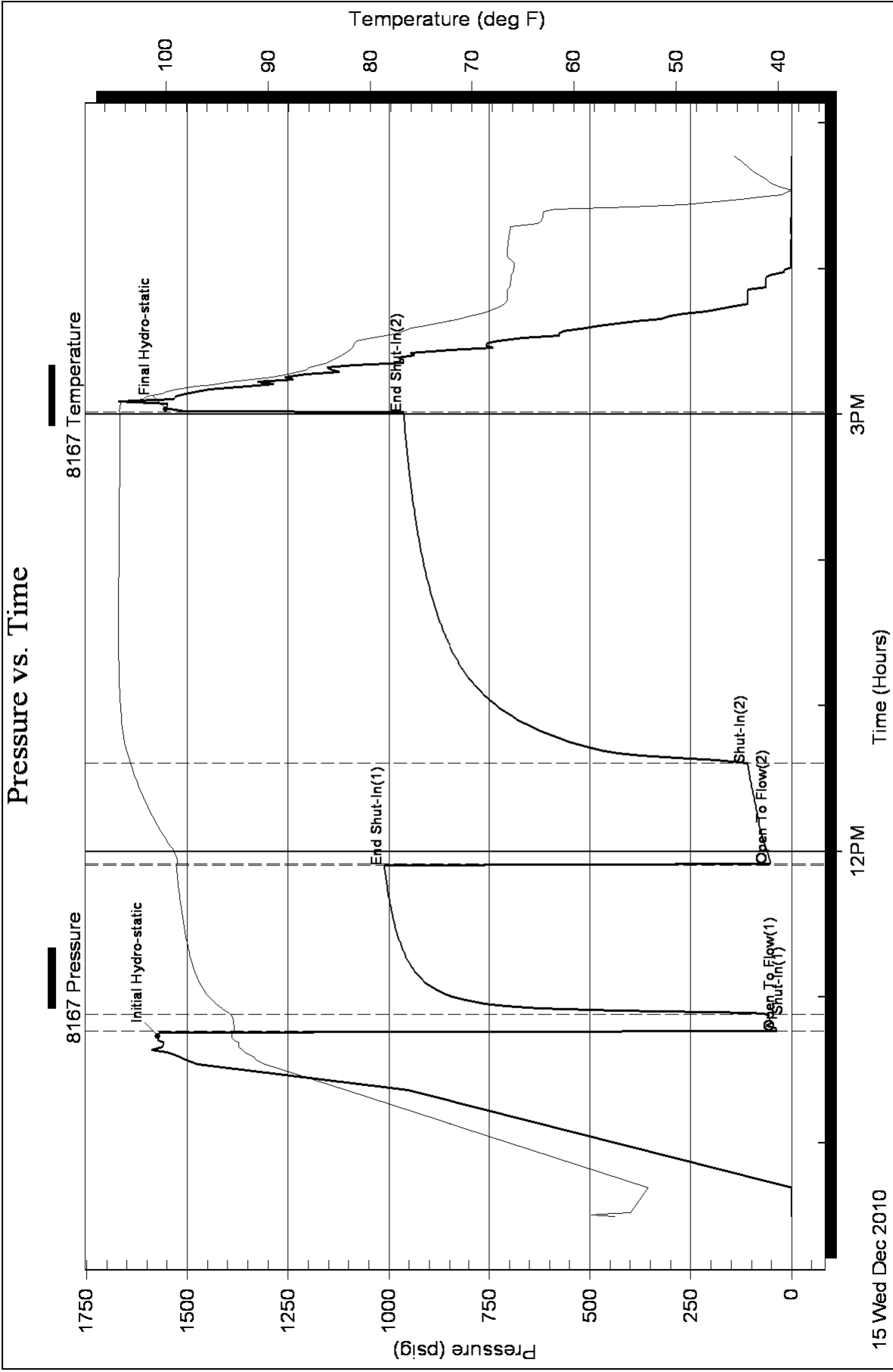
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER DATA: Trace of gas, trace of mud, 460 ML. of oil,
1840 ML. of water @ 96 psi.

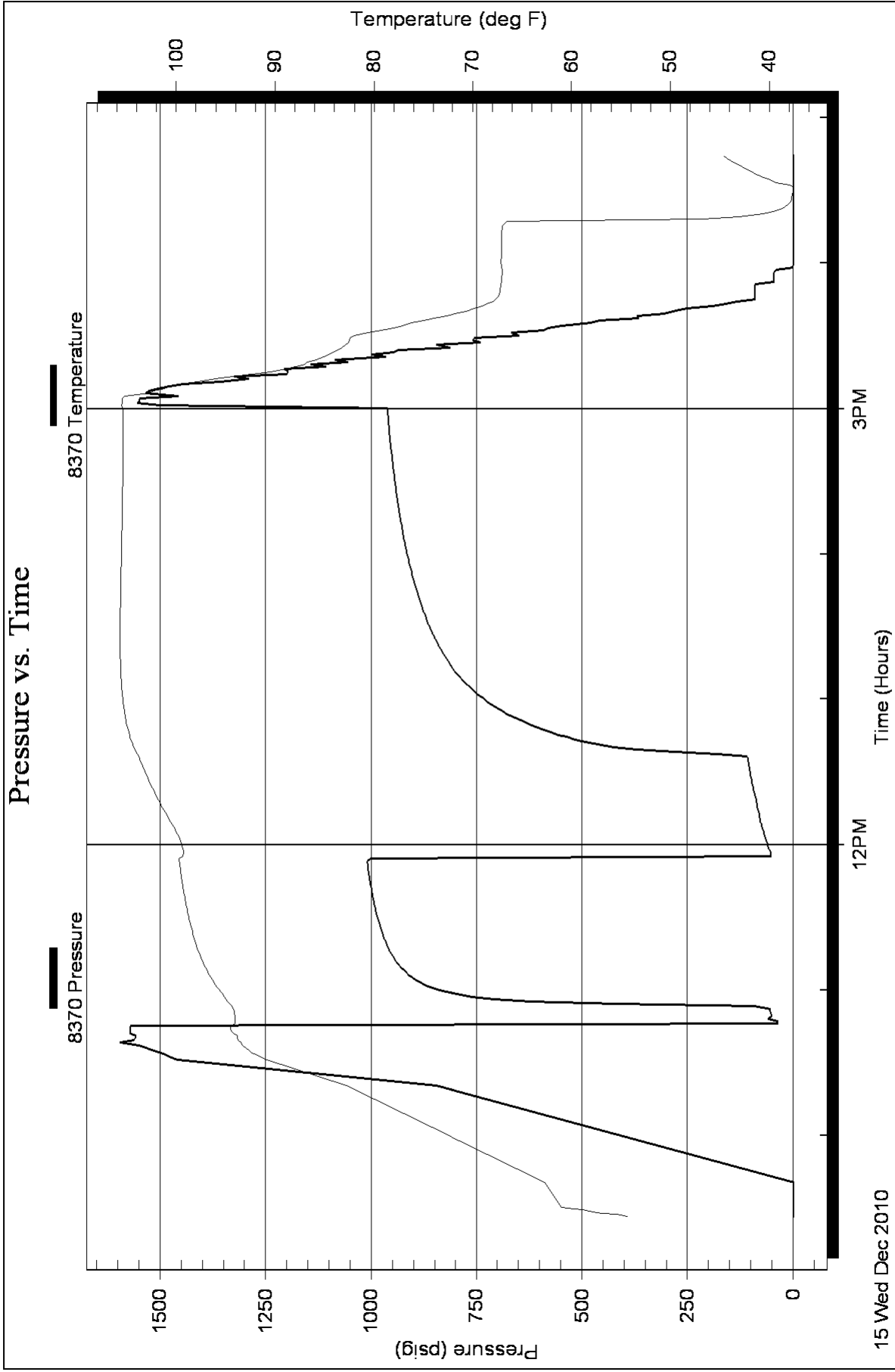


Serial #: 8370

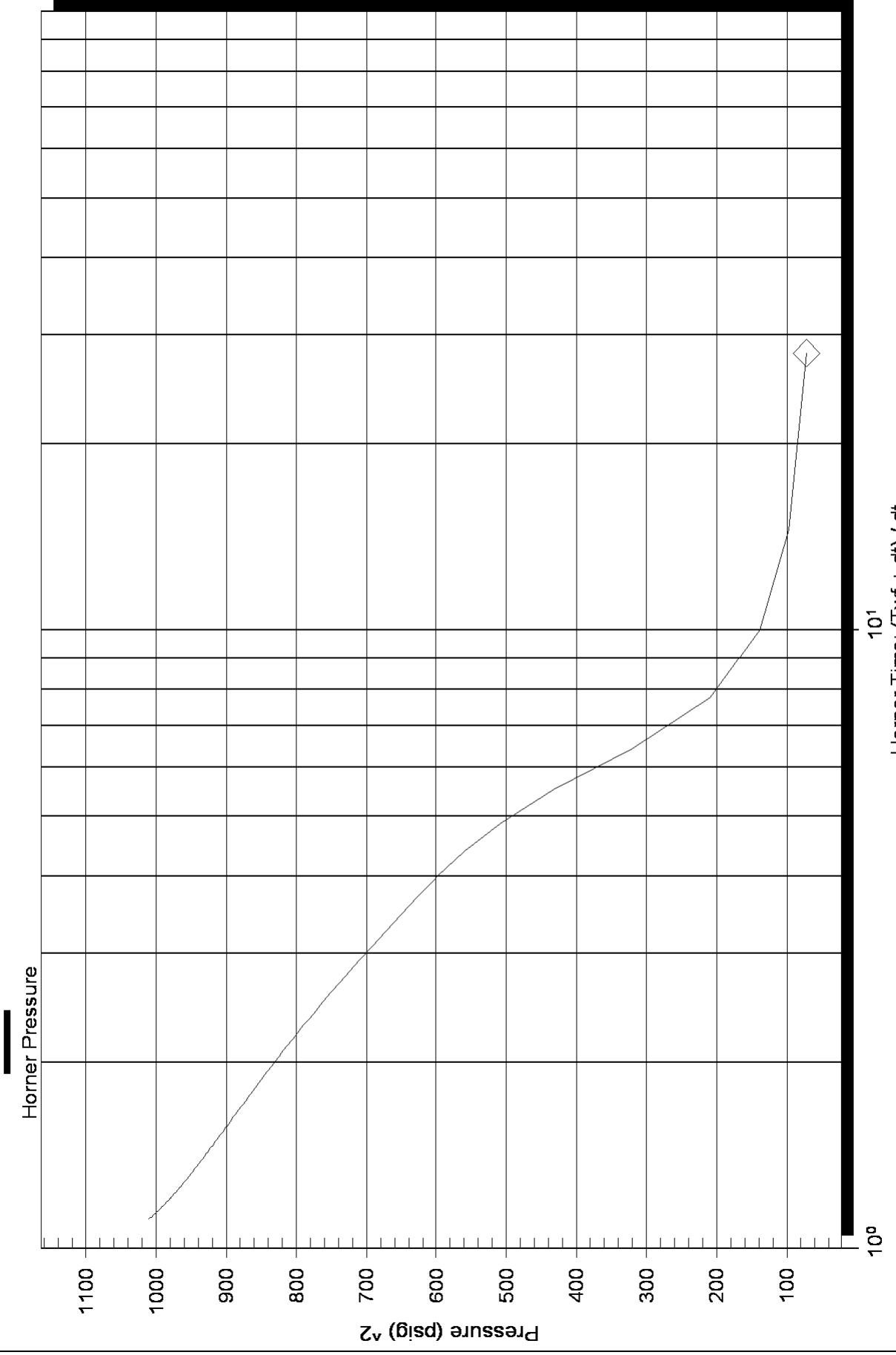
Outside Samuel Gary Jr. & Assoc. Inc.

7-16s-16w Rush Ks.

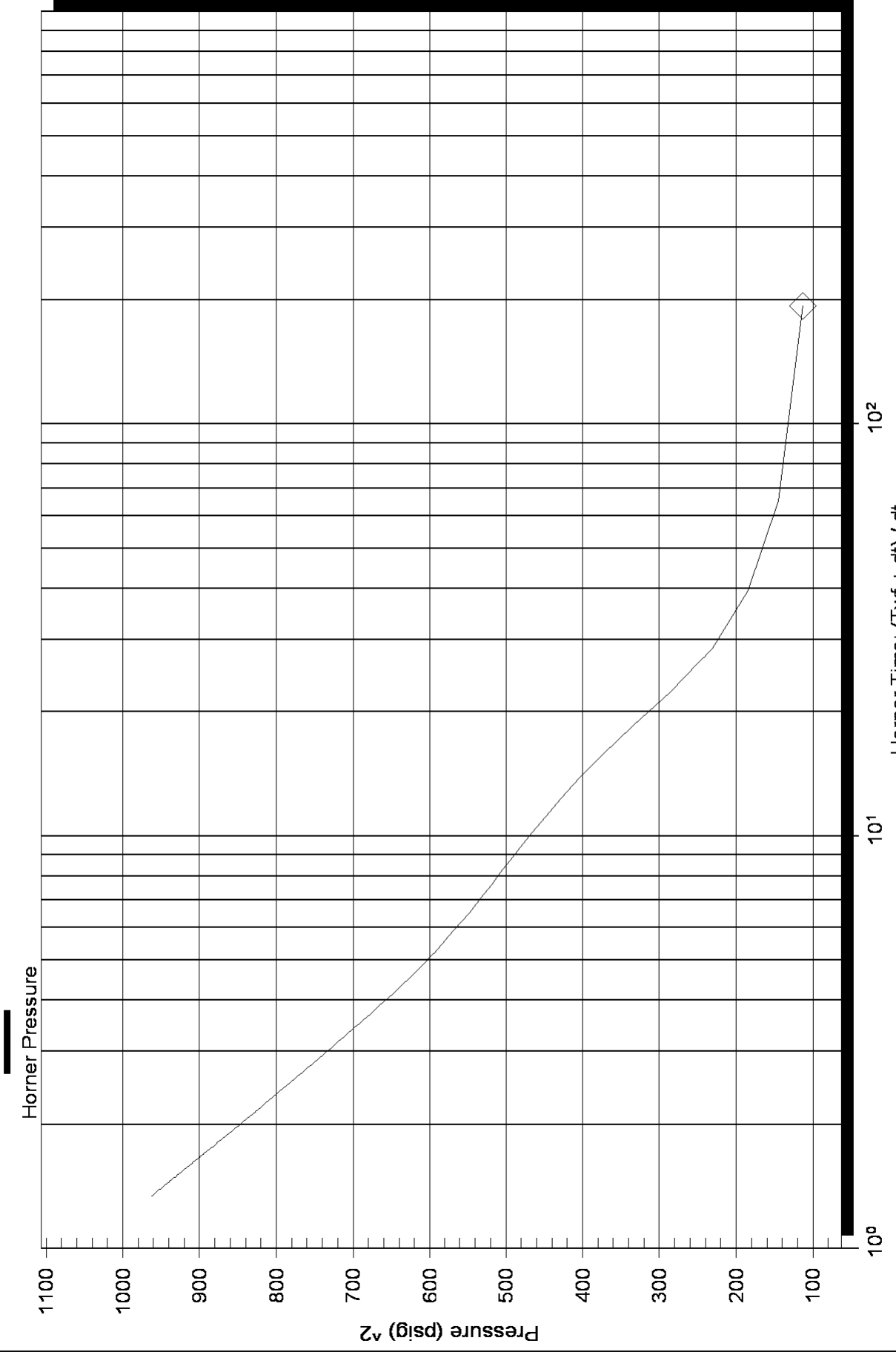
DST Test Number: 1



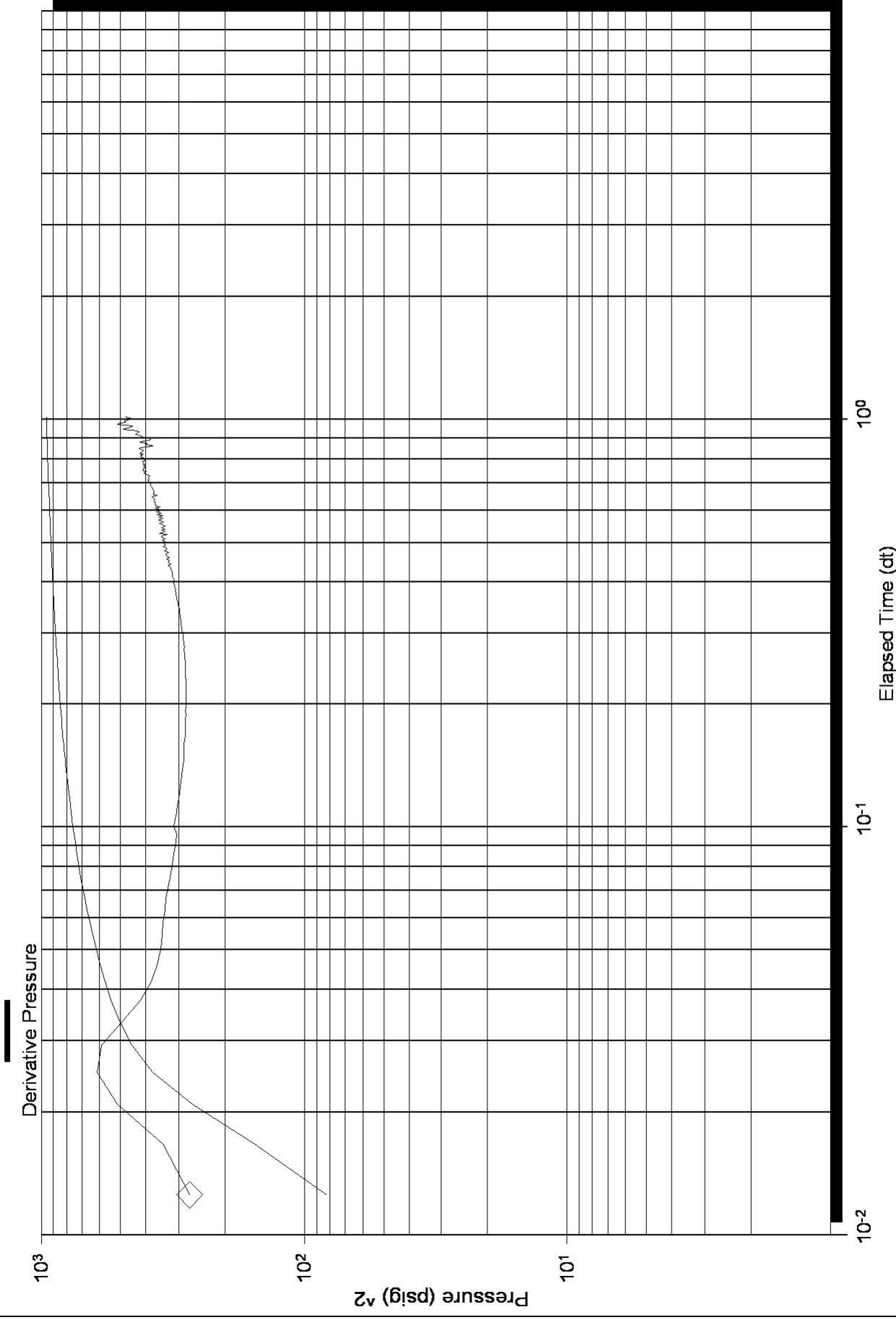
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

