



DRILL STEM TEST REPORT

Prepared For: **Sam Gary & assoc.inc.**

1515 Wynkoop
STE 700
Denver Co. 80202

ATTN: Clysytton Camozzi

36-15s-16w Ellis

B.W.1-36

Start Date: 2010.11.22 @ 08:20:05

End Date: 2010.11.22 @ 15:44:39

Job Ticket #: 039988 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

Sam Gary & assoc.inc.

B.W.1-36

1515 Wynkoop
STE 700
Denver Co. 80202
ATTN: Csyton Camozzi

36-15s-16w Ellis

Job Ticket: 039988

DST#: 2

Test Start: 2010.11.22 @ 08:20:05

GENERAL INFORMATION:

Formation: **Lansing "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:15:00

Time Test Ended: 15:44:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3240.00 ft (KB) To 3290.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 73.77 psig @ 3244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.22 End Date: 2010.11.22

Last Calib.: 2010.11.22

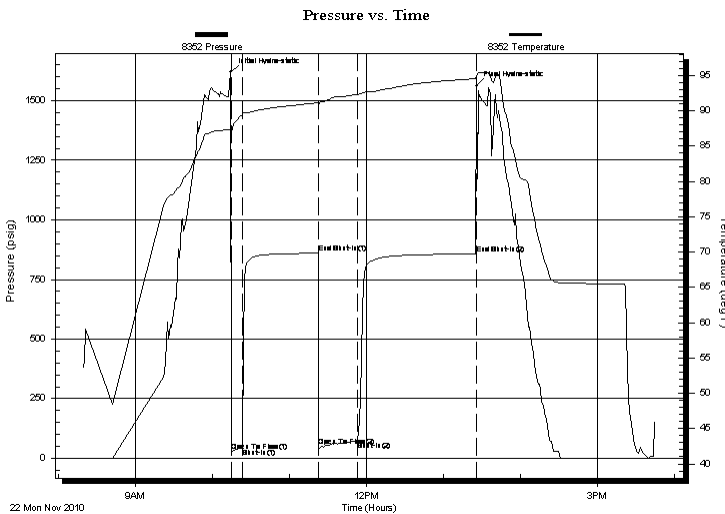
Start Time: 08:20:05 End Time: 15:44:40

Time On Btm: 2010.11.22 @ 10:14:40

Time Off Btm: 2010.11.22 @ 13:26:09

TEST COMMENT: IF: Fair 3.5 inch blow
IS: No Return
FF: Fair 3.5 inch blow
FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.31	87.47	Initial Hydro-static
1	27.53	86.76	Open To Flow (1)
10	43.15	89.46	Shut-In(1)
69	860.21	91.14	End Shut-In(1)
69	48.82	90.62	Open To Flow (2)
99	73.77	92.29	Shut-In(2)
192	856.13	94.58	End Shut-In(2)
192	1561.28	94.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	SOSGM	1.37
0.00	GIP=434ft	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary & assoc.inc.
 1515 Wynkoop
 STE 700
 Denver Co. 80202
 ATTN: Csyton Camozzi

B.W. 1-36

36-15s-16w Ellis

Job Ticket: 039988

DST#: 2

Test Start: 2010.11.22 @ 08:20:05

GENERAL INFORMATION:

Formation: **Lansing "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:15:00

Time Test Ended: 15:44:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: **3240.00 ft (KB) To 3290.00 ft (KB) (TVD)**

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8017

Inside

Press @ RunDepth: psig @ 3244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.22

End Date: 2010.11.22

Last Calib.: 2010.11.22

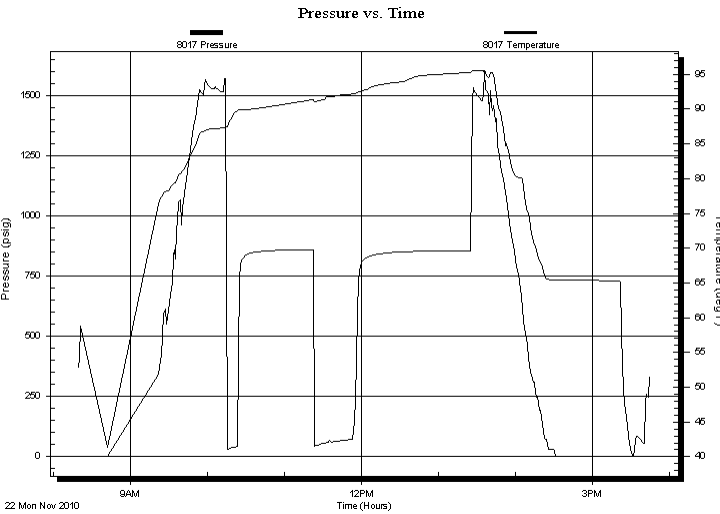
Start Time: 08:19:55

End Time: 15:44:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair 3.5 inch blow
 IS: No Return
 FF: Fair 3.5 inch blow
 FS: No Return



PRESSURE SUMMARY

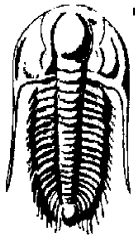
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
118.00	SOSGM	1.37
0.00	GIP=434ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary & assoc.inc.

B.W.1-36

1515 Wynkoop
STE 700
Denver Co. 80202
ATTN: Csyton Camozzi

36-15s-16w Ellis

Job Ticket: 039988 **DST#: 2**
Test Start: 2010.11.22 @ 08:20:05

GENERAL INFORMATION:

Formation: **Lansing "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:15:00

Time Test Ended: 15:44:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Interval: 3240.00 ft (KB) To 3290.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8650 Fluid

Press @ Run Depth: psig @ 3207.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.22

End Date: 2010.11.22

Last Calib.: 2010.11.22

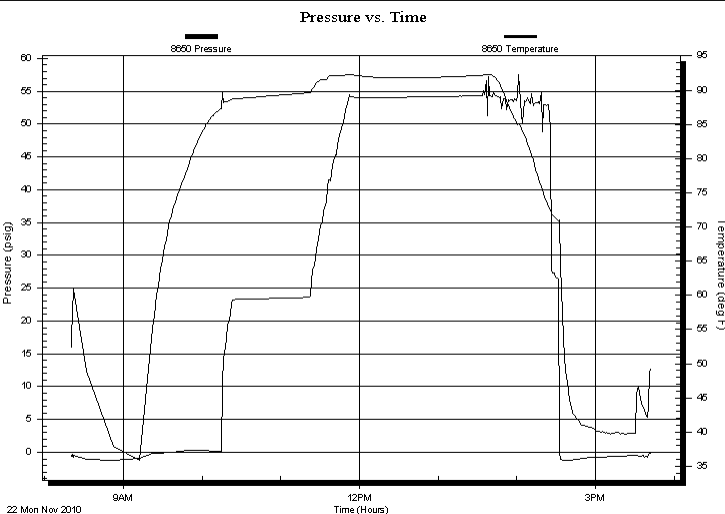
Start Time: 08:20:01

End Time: 15:43:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair 3.5 inch blow
IS: No Return
FF: Fair 3.5 inch blow
FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
118.00	SOSGM	1.37
0.00	GIP=434ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary & assoc.inc.

B.W.1-36

1515 Wynkoop
STE 700
Denver Co. 80202
ATTN: Csyton Camozzi

36-15s-16w Ellis

Job Ticket: 039988

DST#: 2

Test Start: 2010.11.22 @ 08:20:05

Tool Information

Drill Pipe:	Length: 3196.00 ft	Diameter: 3.80 inches	Volume: 44.83 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: 30.81 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.98 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	19.81 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3240.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 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
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8650	Fluid	3207.00	
Blank Spacing	3.00			3210.00	
Shut In Tool	5.00			3215.00	
Sampler	3.00			3218.00	
Hydraulic tool	5.00			3223.00	
Jars	5.00			3228.00	
Safety Joint	3.00			3231.00	
Packer	5.00			3236.00	33.00 Bottom Of Top Packer
Packer	4.00			3240.00	
Stubb	1.00			3241.00	
Perforations	2.00			3243.00	
Change Over Sub	1.00			3244.00	
Recorder	0.00	8017	Inside	3244.00	
Recorder	0.00	8352	Outside	3244.00	
Drill Pipe	31.00			3275.00	
Change Over Sub	1.00			3276.00	
Perforations	11.00			3287.00	
Bullnose	3.00			3290.00	50.00 Bottom Packers & Anchor

Total Tool Length: 83.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary & assoc.inc.

B.W.1-36

1515 Wynkoop
STE 700
Denver Co. 80202
ATTN: Csyton Camozzi

36-15s-16w Ellis

Job Ticket: 039988

DST#: 2

Test Start: 2010.11.22 @ 08:20:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 5400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
118.00	SOSGM	1.375
0.00	GIP=434ft	0.000

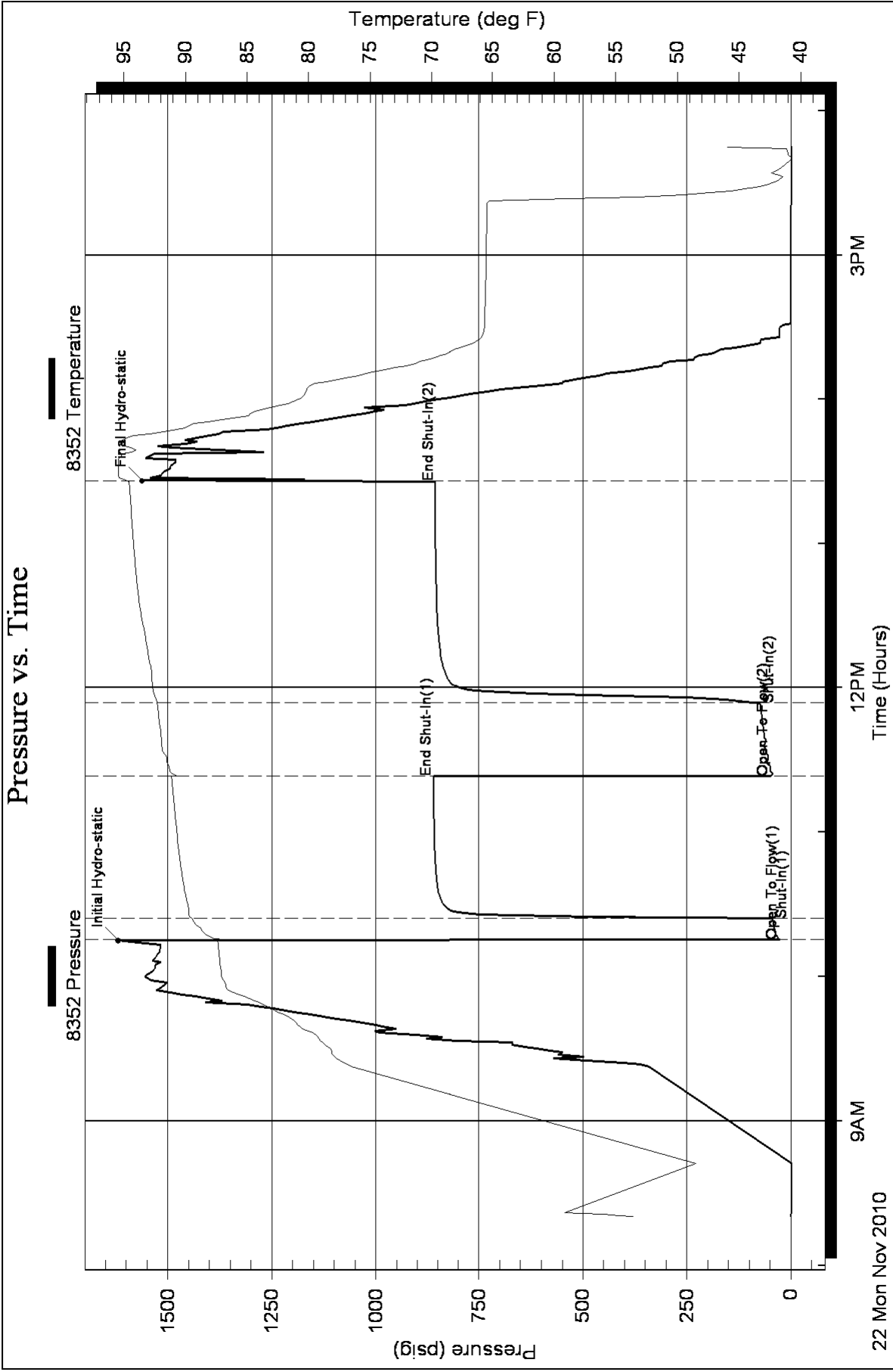
Total Length: 118.00 ft Total Volume: 1.375 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Analysis= Gas=One Eighth CF, Mud=1000 ML
Pressure= 35lbs

Pressure vs. Time



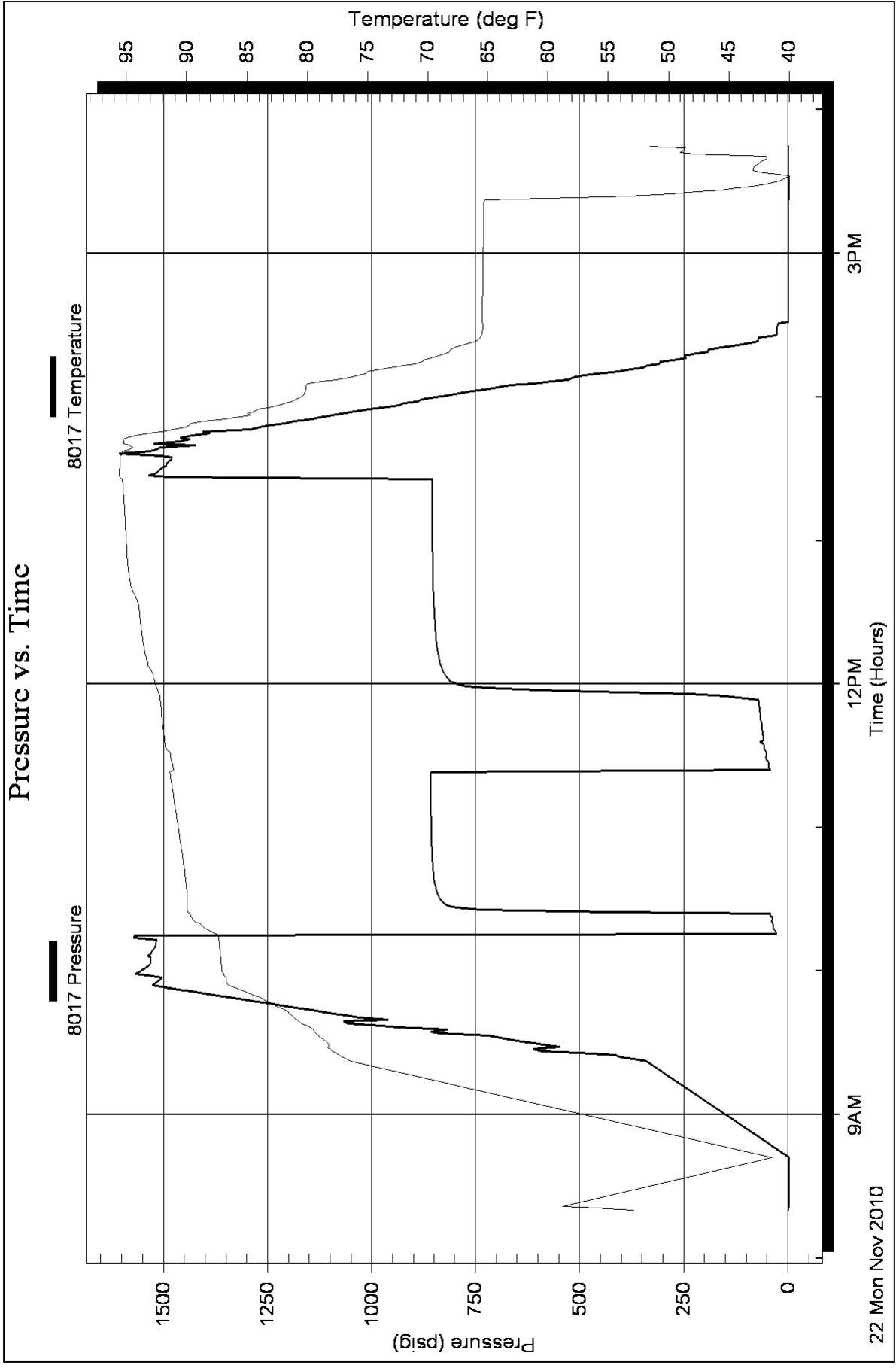
Serial #: 8017

Inside

Sam Gary & assoc.inc.

36-15s-16w Ellis

DST Test Number: 2



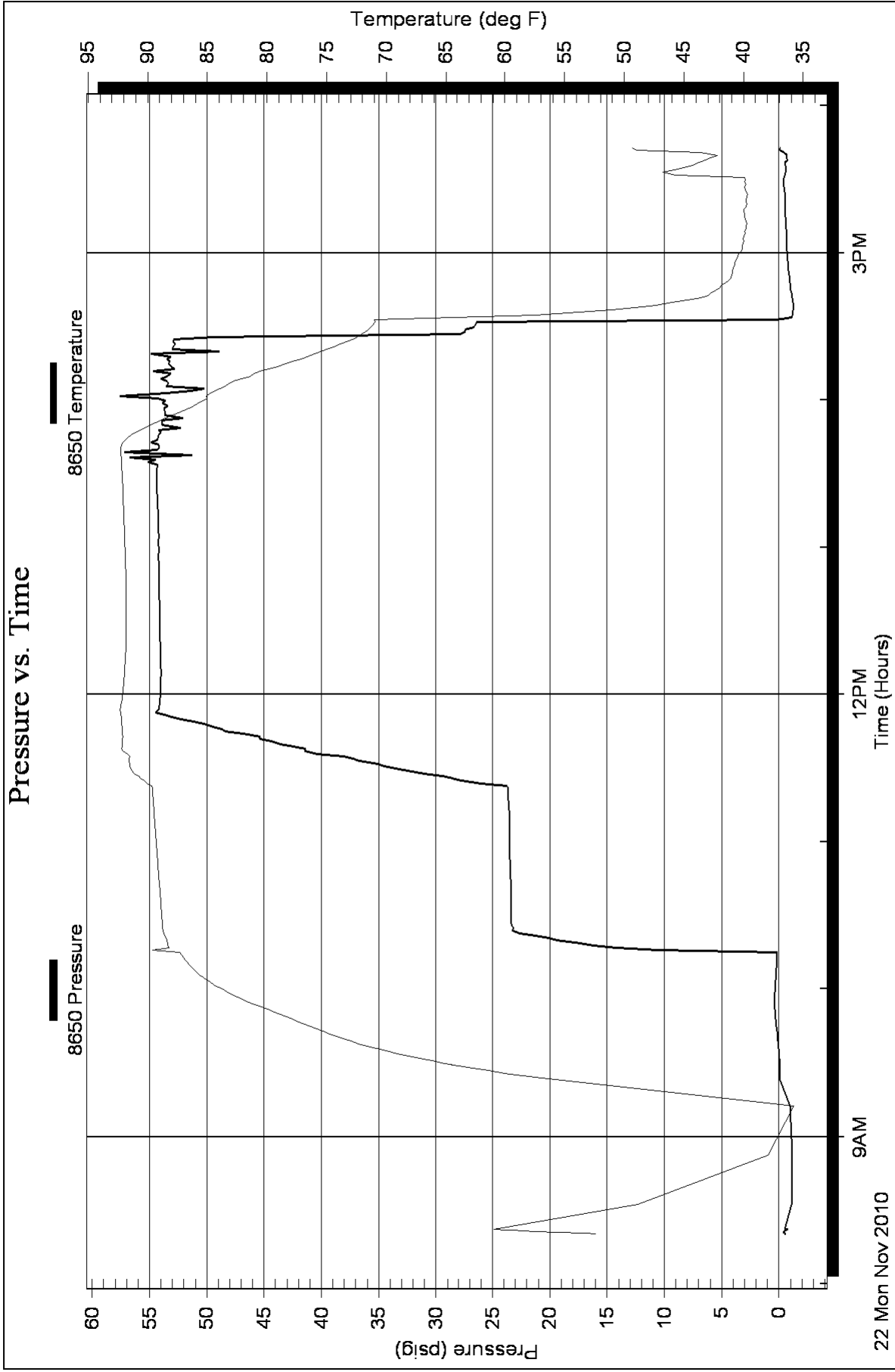
Serial #: 8650

Fluid

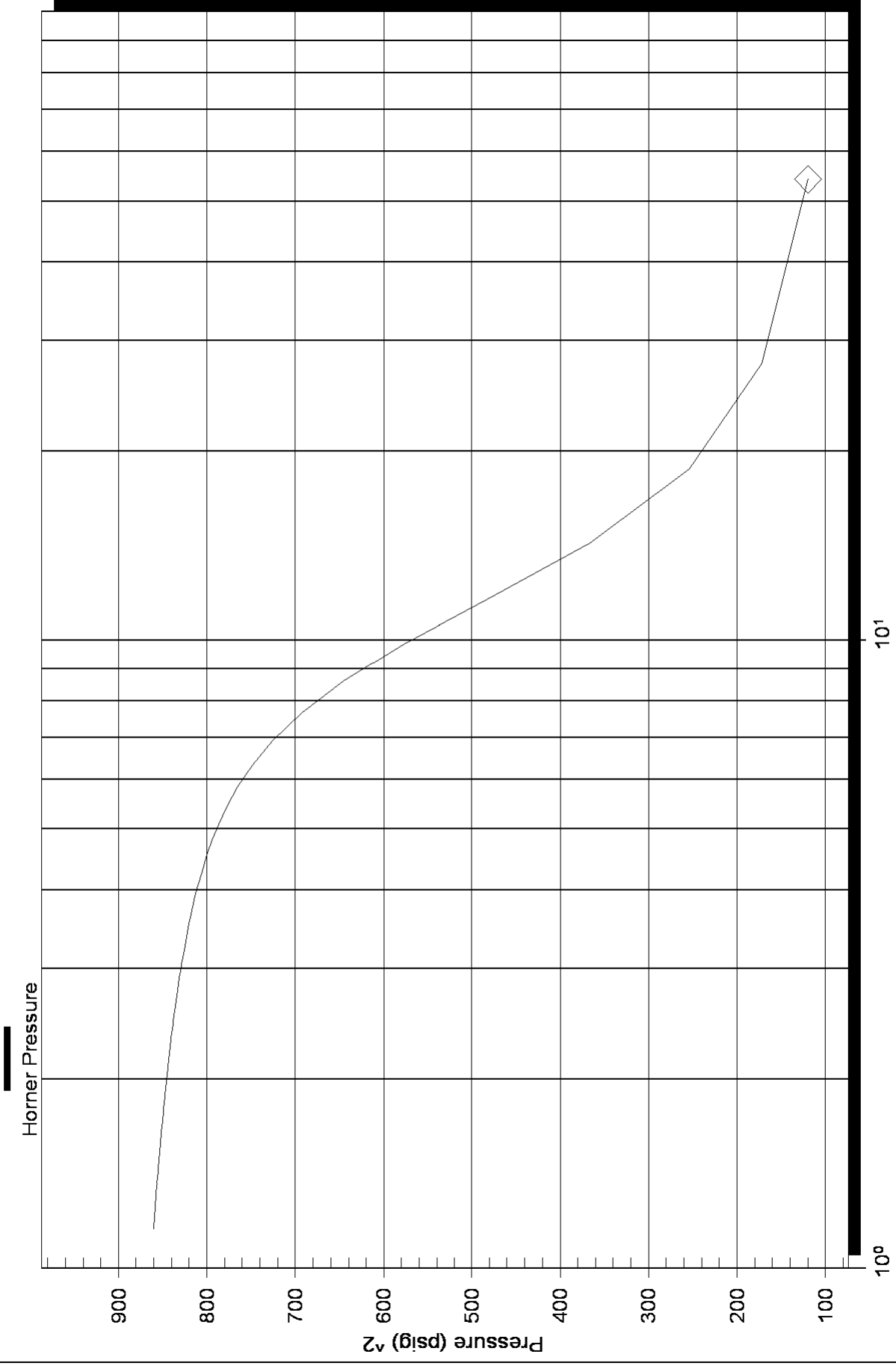
Sam Gary & assoc.inc.

36-15s-16w Ellis

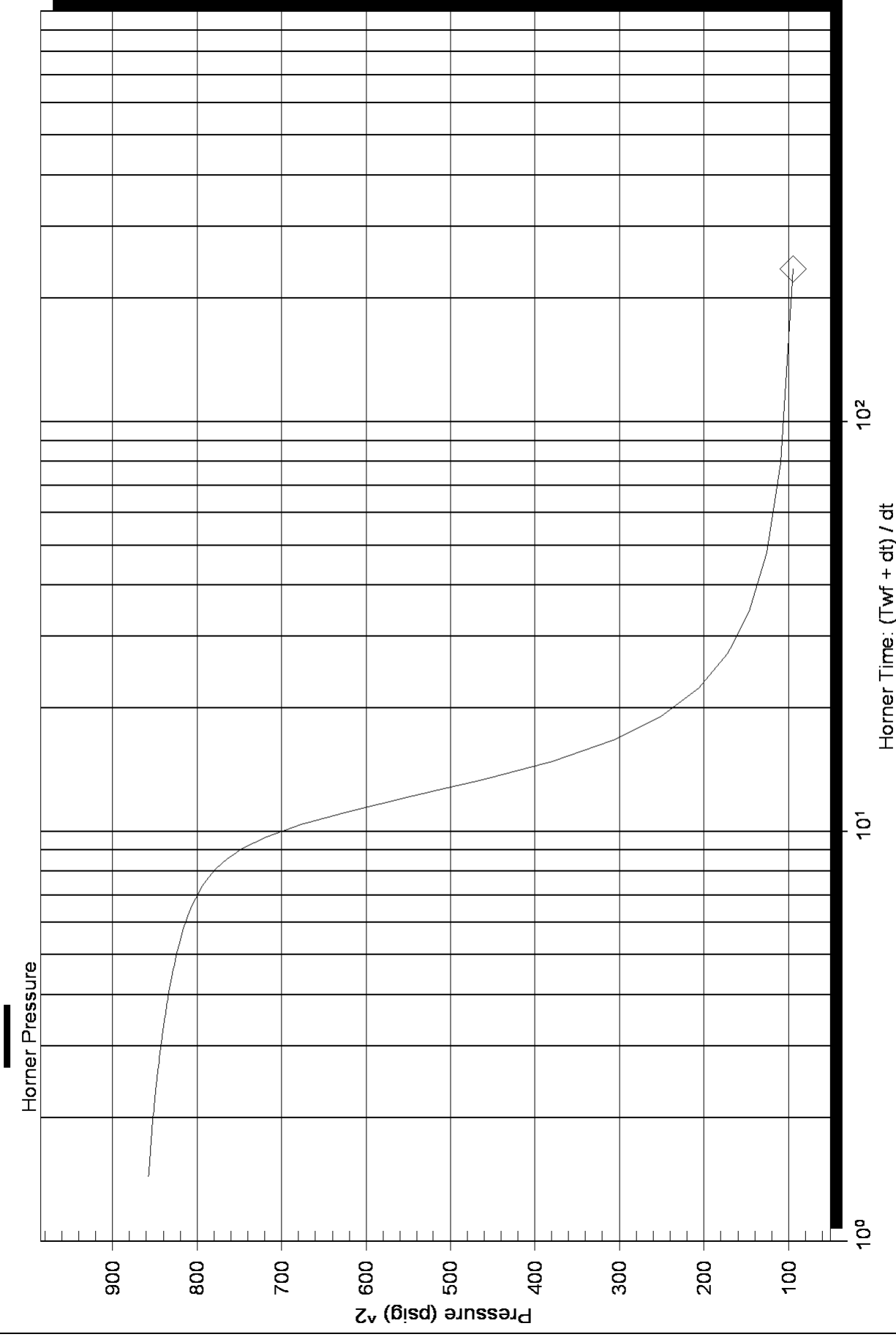
DST Test Number: 2



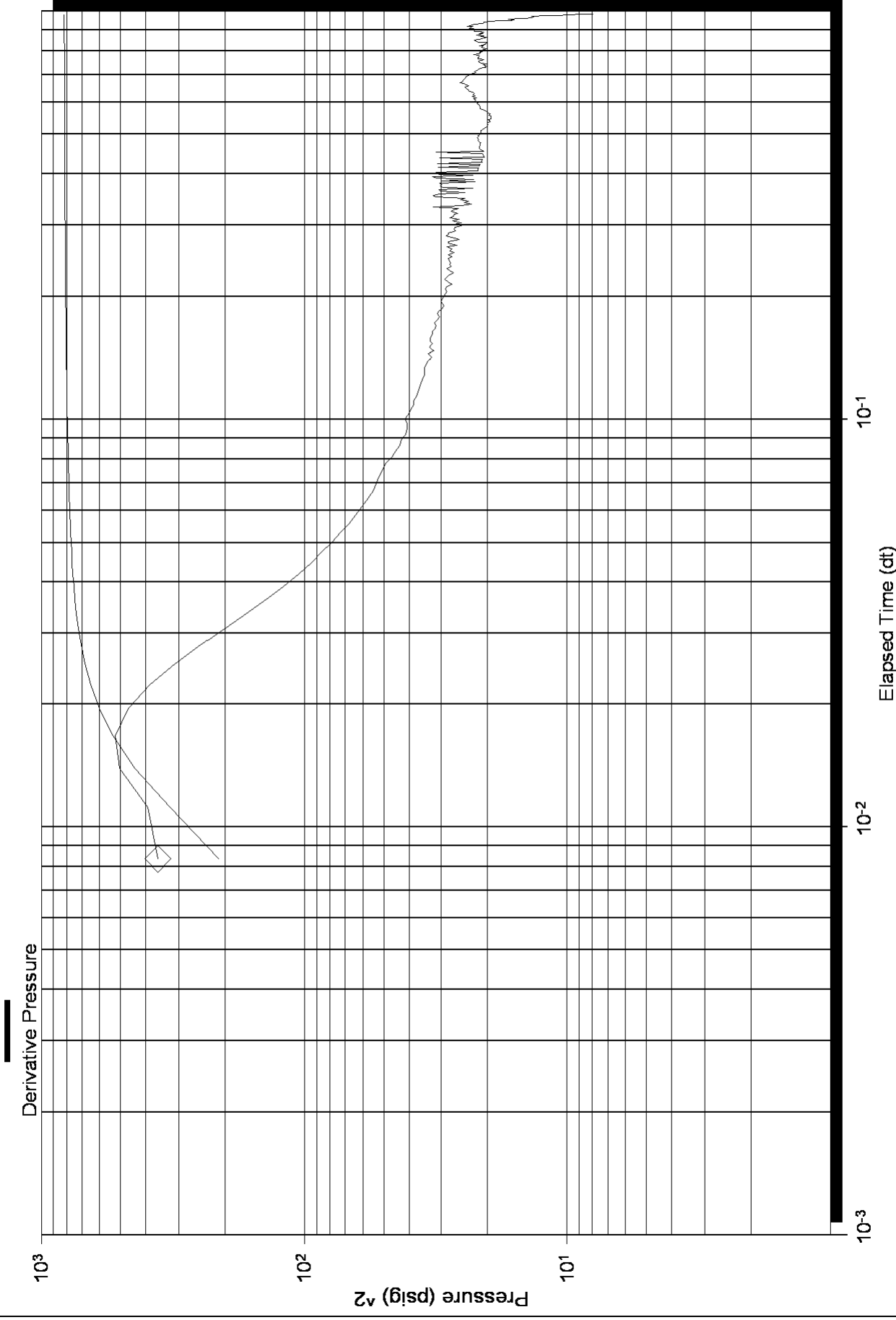
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

