



## DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. Associates ,Inc.**

1515 Wynkoop Ste 700  
Denver Co 80202

ATTN: Clayton Camozzi

**11-12-17,Ellis,Ks**

**Rohleder Trust #1-11**

Start Date: 2011.08.25 @ 22:36:02

End Date: 2011.08.26 @ 04:49:32

Job Ticket #: 44298                      DST #: 6

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. Associates, Inc.

**Rohleder Trust #1-11**

1515 Wynkoop Ste 700  
Denver Co 80202

**11-12-17, Ellis, Ks**

ATTN: Clayton Camozzi

Job Ticket: 44298

**DST#: 6**

Test Start: 2011.08.25 @ 22:36:02

## GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:11:02

Time Test Ended: 04:49:32

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 47

**Interval: 3280.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3746.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 6753 Inside**

Press @ Run Depth: 35.07 psig @ 3281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.25 End Date: 2011.08.26

Last Calib.: 2011.08.26

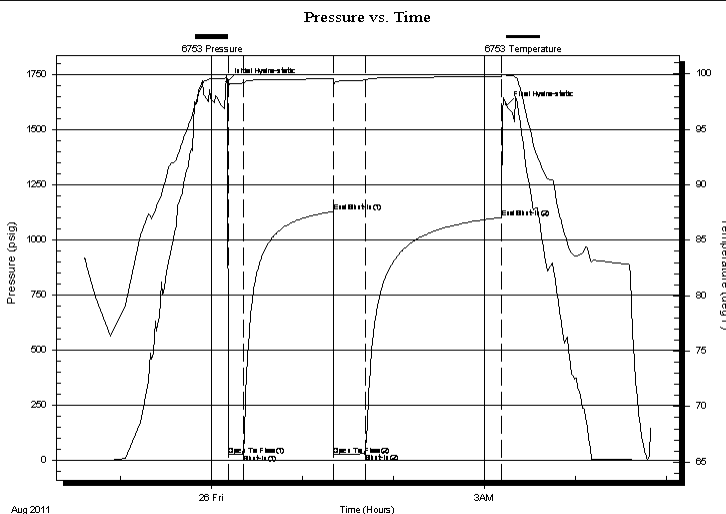
Start Time: 22:36:07 End Time: 04:49:31

Time On Btm: 2011.08.26 @ 00:10:02

Time Off Btm: 2011.08.26 @ 03:14:32

**TEST COMMENT:** 10 - IFP - sur blow throughout  
60 - ISI - no blow back  
20 - FFP - no blow  
90 - FSI - no blow back

## PRESSURE SUMMARY



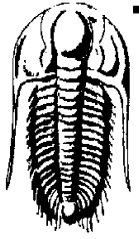
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.94	99.61	Initial Hydro-static
1	24.45	98.85	Open To Flow (1)
11	29.19	99.19	Shut-In(1)
70	1129.90	99.58	End Shut-In(1)
71	26.22	99.05	Open To Flow (2)
91	35.07	99.46	Shut-In(2)
181	1102.75	99.80	End Shut-In(2)
185	1611.94	99.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	drl mud 100%	0.03

## Gas Rates

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



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Job Ticket: 44298

**DST#: 6**

ATTN: Clayton Camozzi

Test Start: 2011.08.25 @ 22:36:02

## GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:11:02

Time Test Ended: 04:49:32

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 47

Interval: **3280.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: 3746.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2154.00 ft (KB)

2146.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8650 Below (Straddle)**

Press @ Run Depth: psig @ 3317.00 ft (KB)

Start Date: 2011.08.25 End Date: 2011.08.26

Start Time: 22:36:28 End Time: 04:49:52

Capacity: 8000.00 psig

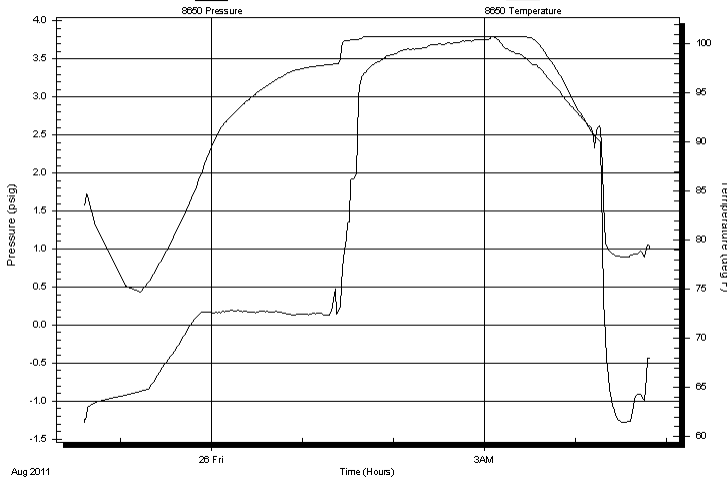
Last Calib.: 2011.08.26

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 10 - IFP - sur blow throughout  
60 - ISI - no blow back  
20 - FFP - no blow  
90 - FSI - no blow back

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	drl mud 100%	0.03

## Gas Rates

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



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## DRILL STEM TEST REPORT

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Rohleder Trust #1-11

1515 Wynkoop Ste 700  
Denver Co 80202

11-12-17, Ellis, Ks

ATTN: Clayton Camozzi

Job Ticket: 44298

DST#: 6

Test Start: 2011.08.25 @ 22:36:02

### GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:11:02

Time Test Ended: 04:49:32

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 47

Interval: **3280.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3746.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

### Serial #: 8369 Fluid

Press @ Run Depth: psig @ 3251.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.25 End Date: 2011.08.26

Last Calib.: 2011.08.26

Start Time: 22:34:38 End Time: 04:49:02

Time On Btm:

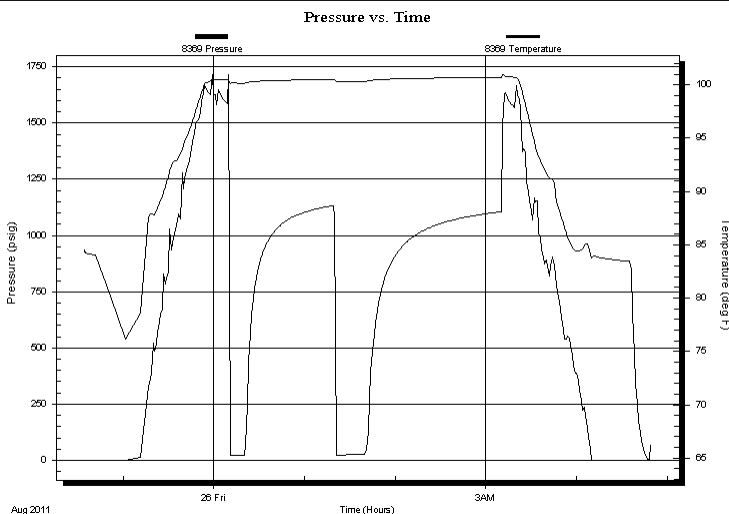
Time Off Btm:

TEST COMMENT: 10 - IFP - sur blow throughout

60 - ISI - no blow back

20 - FFP - no blow

90 - FSI - no blow back



### PRESSURE SUMMARY

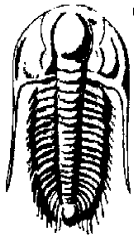
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
7.00	drl mud 100%	0.03

### Gas Rates

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



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**11-12-17, Ellis, Ks**

Job Ticket: 44298

**DST#: 6**

ATTN: Clayton Camozzi

Test Start: 2011.08.25 @ 22:36:02

## GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:11:02

Time Test Ended: 04:49:32

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 47

**Interval: 3280.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3746.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press @ RunDepth: psig @ 3281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.25

End Date:

2011.08.26

Last Calib.:

2011.08.26

Start Time: 22:34:21

End Time:

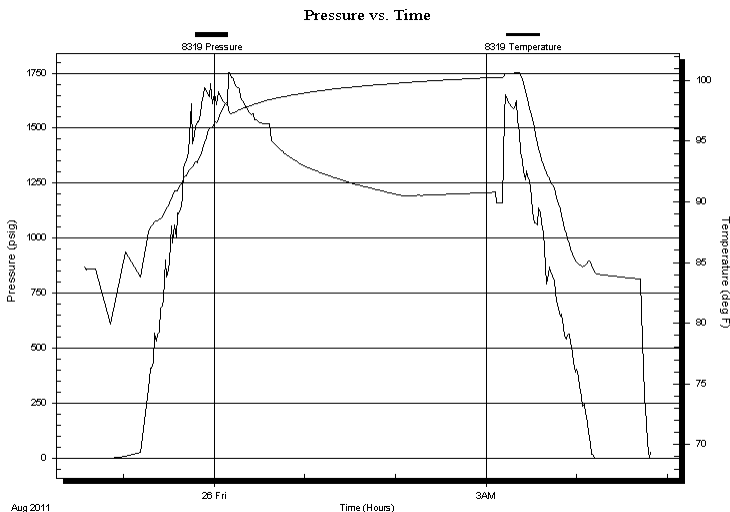
04:49:15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 10 - IFP - sur blow throughout  
60 - ISI - no blow back  
20 - FFP - no blow  
90 - FSI - no blow back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	drl mud 100%	0.03

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary Jr. Associates, Inc.

**Rohleder Trust #1-11**

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Denver Co 80202

**11-12-17, Ellis, Ks**

Job Ticket: 44298

**DST#: 6**

ATTN: Clayton Camozzi

Test Start: 2011.08.25 @ 22:36:02

## Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3280.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3310.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	506.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3246.00	
Drill Pipe	5.00			3251.00	
Recorder	0.00	8369	Fluid	3251.00	
Shut In Tool	5.00			3256.00	
Sampler	2.00			3258.00	
Hydraulic tool	5.00			3263.00	
Jars	5.00			3268.00	
Safety Joint	2.00			3270.00	
Packer	5.00			3275.00	35.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Recorder	0.00	6753	Inside	3281.00	
Recorder	0.00	8319	Outside	3281.00	
Perforations	24.00			3305.00	
Blank Off Sub	1.00			3306.00	
Blank Spacing	4.00			3310.00	30.00 Tool Interval
Packer	5.00			3315.00	
Perforations	1.00			3316.00	
Change Over Sub	1.00			3317.00	
Recorder	0.00	8650	Below	3317.00	
Blank Spacing	434.00			3751.00	441.00 Bottom Packers & Anchor

**Total Tool Length: 506.00**



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**FLUID SUMMARY**

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**11-12-17, Ellis, Ks**

Job Ticket: 44298

**DST#: 6**

ATTN: Clayton Camozzi

Test Start: 2011.08.25 @ 22:36:02

## 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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	drl mud 100%	0.034

Total Length: 7.00 ft      Total Volume: 0.034 bbl

Num Fluid Samples: 0

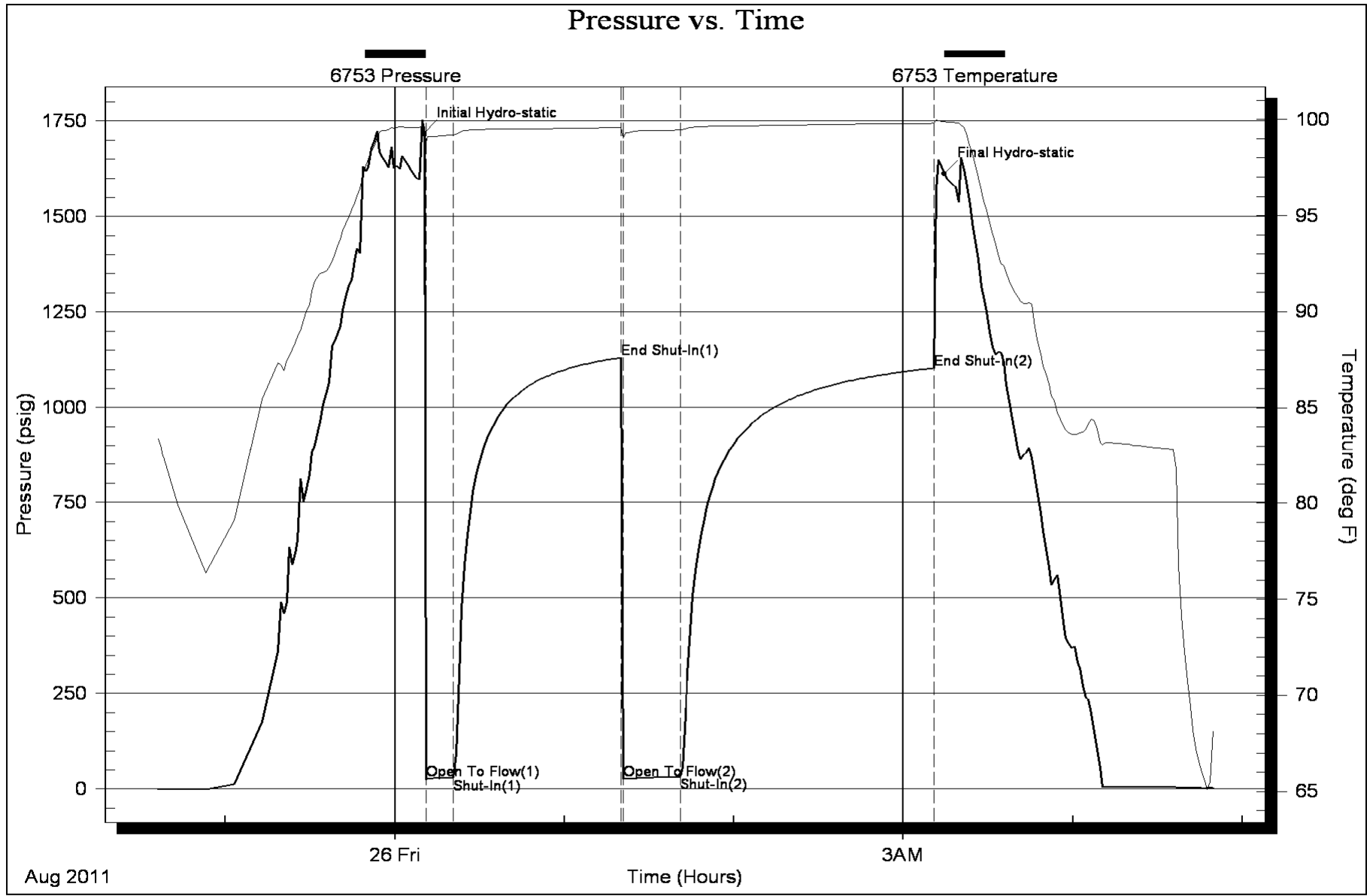
Num Gas Bombs: 0

Serial #:

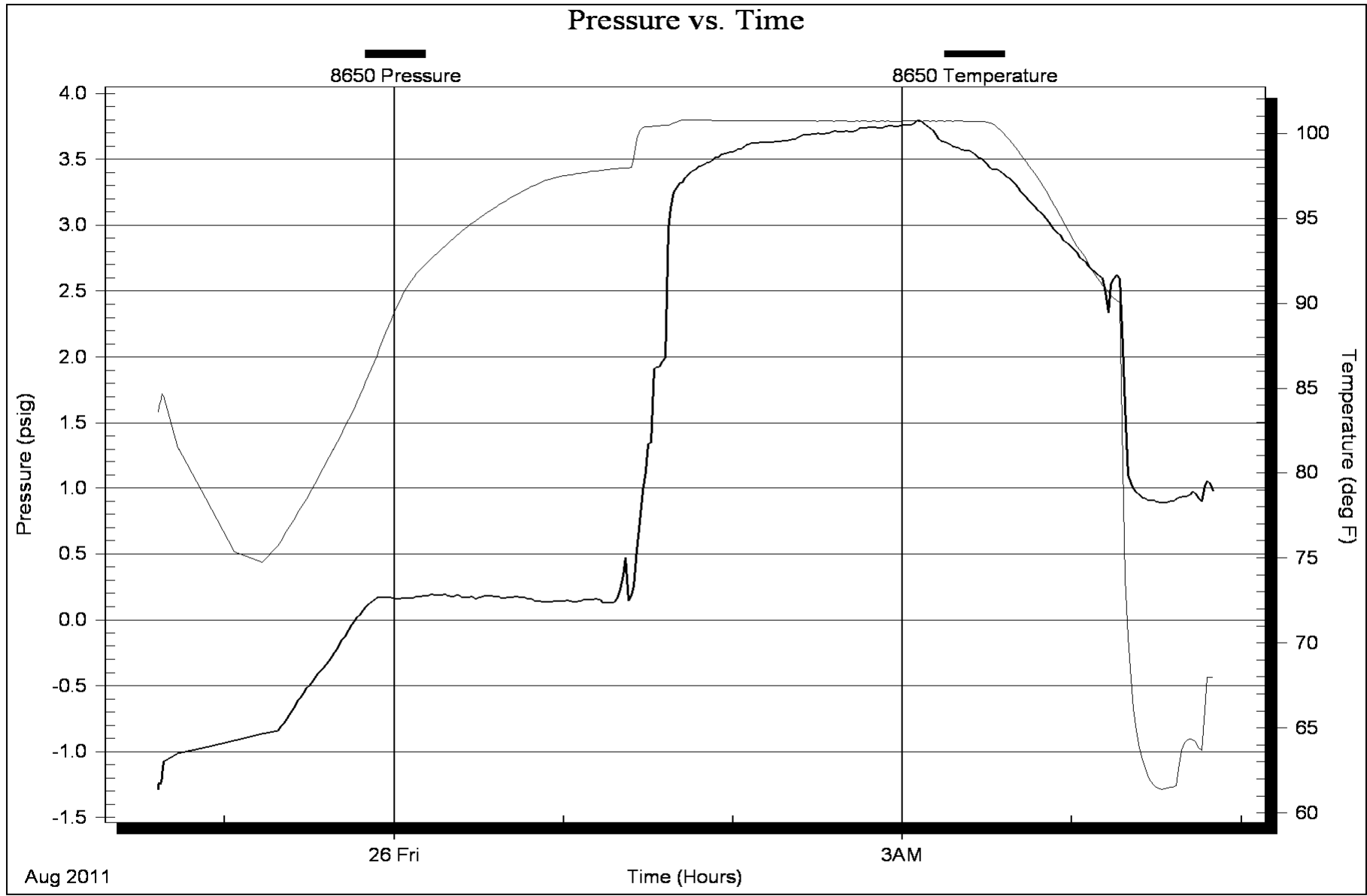
Laboratory Name:

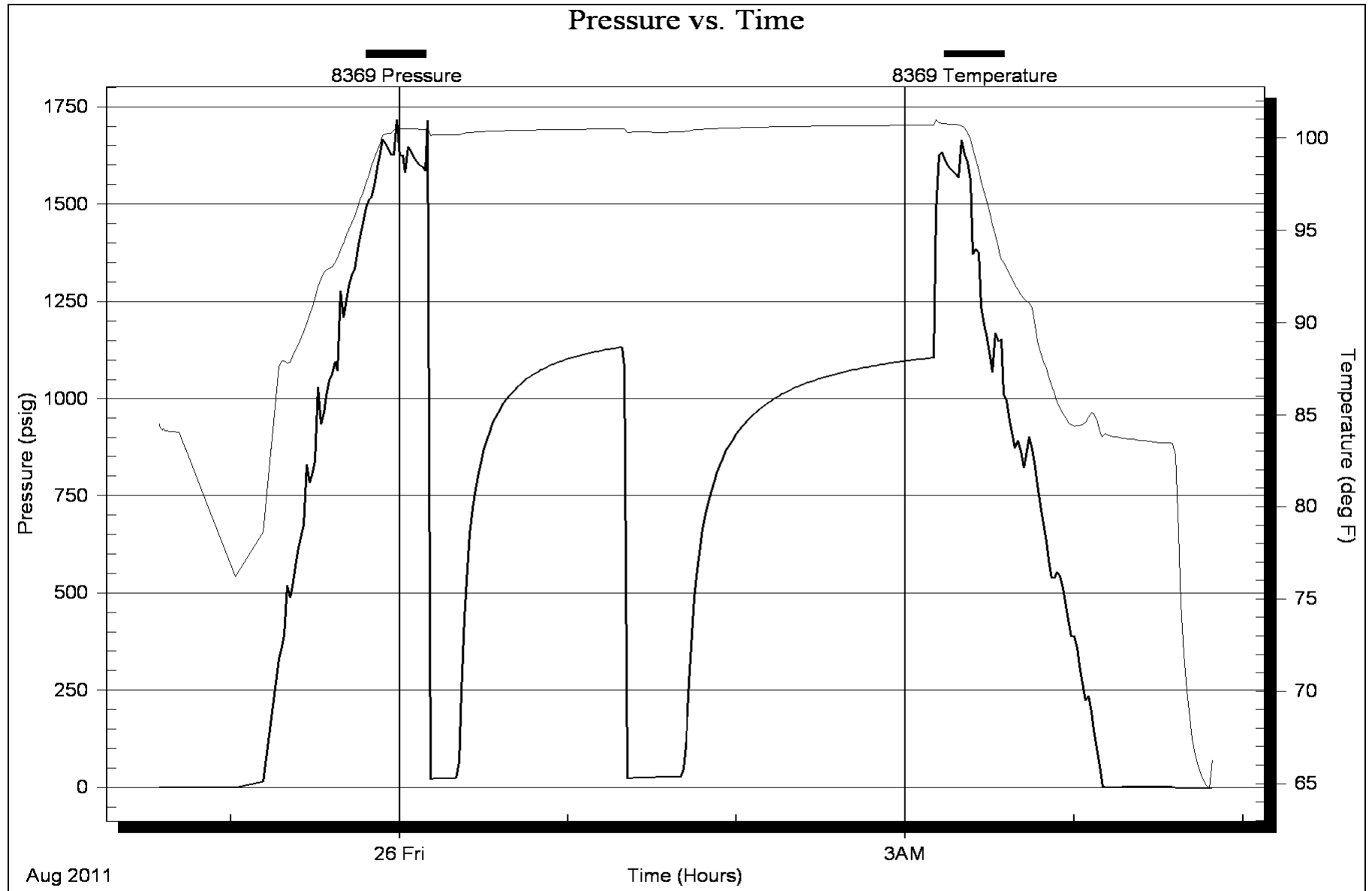
Laboratory Location:

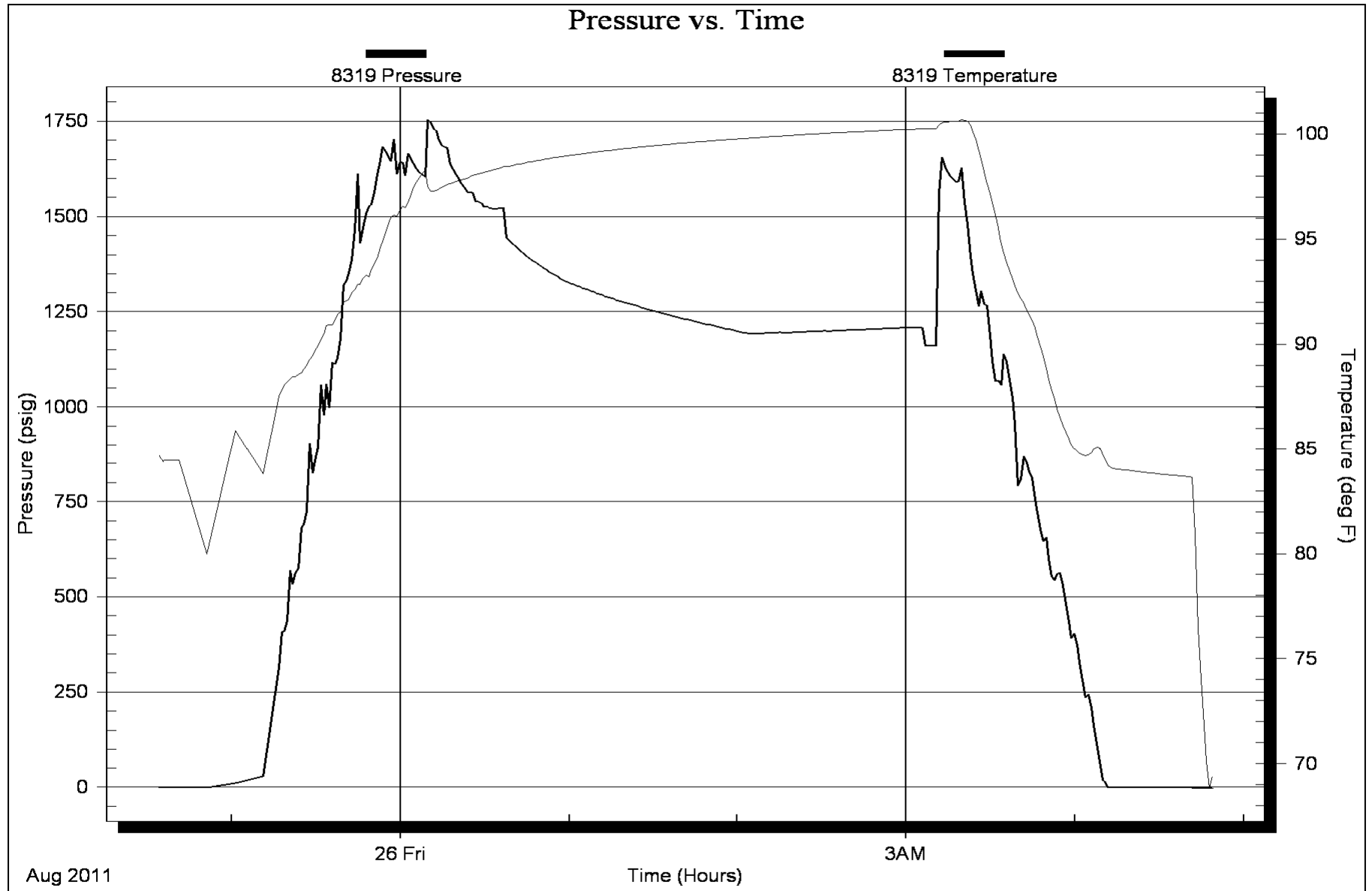
Recovery Comments: 4000 ml MUD, 120 lbs



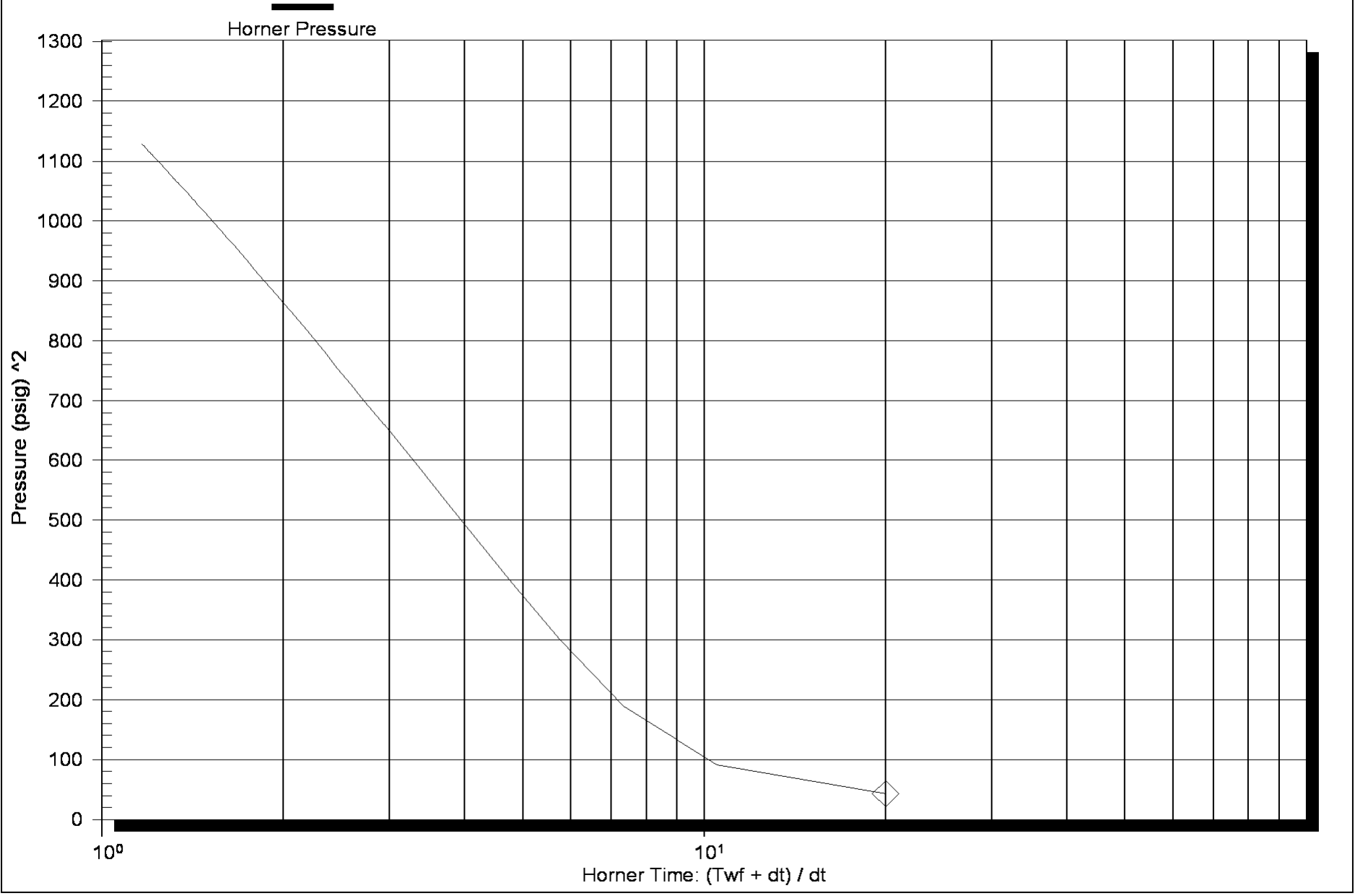




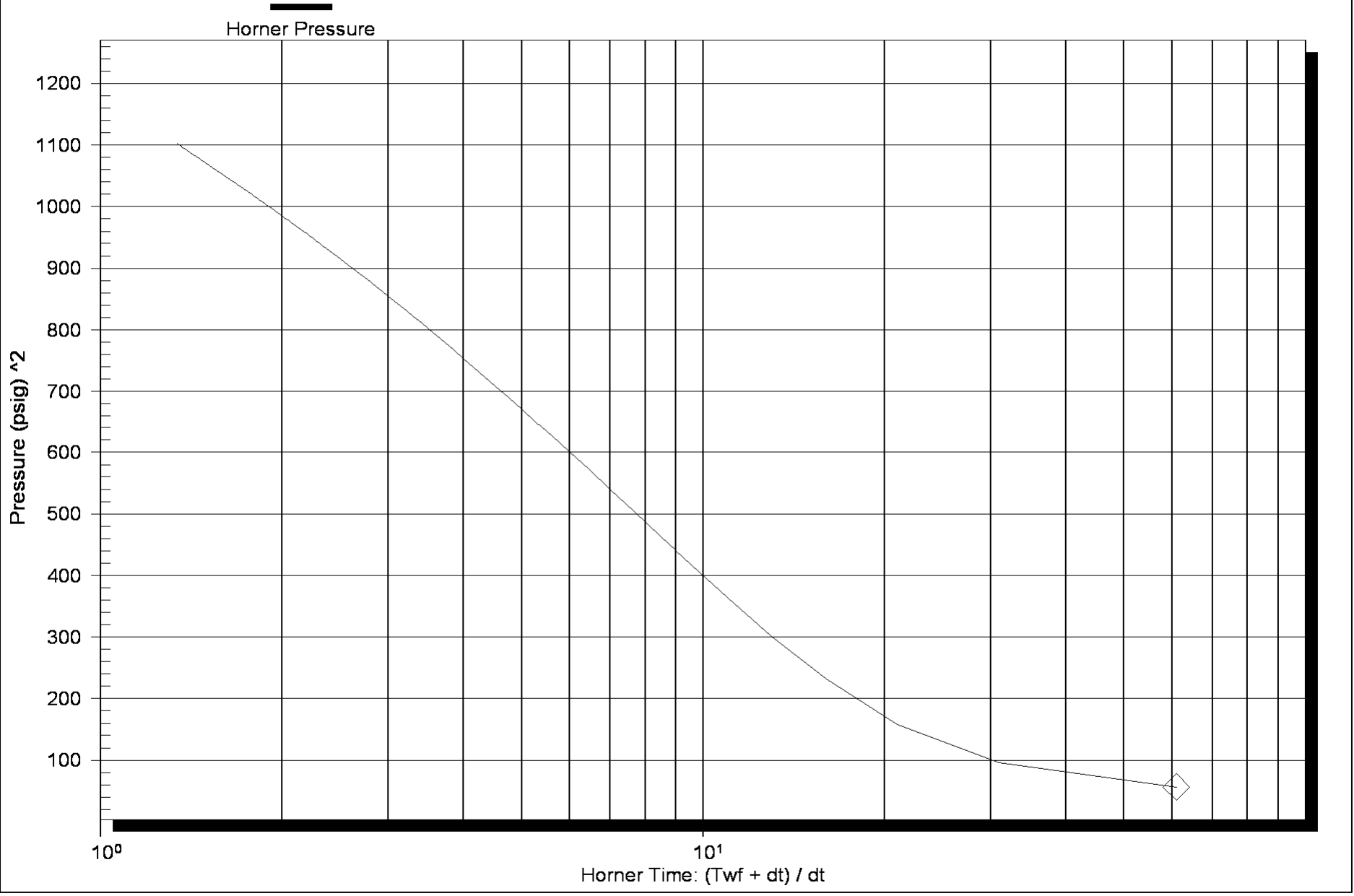




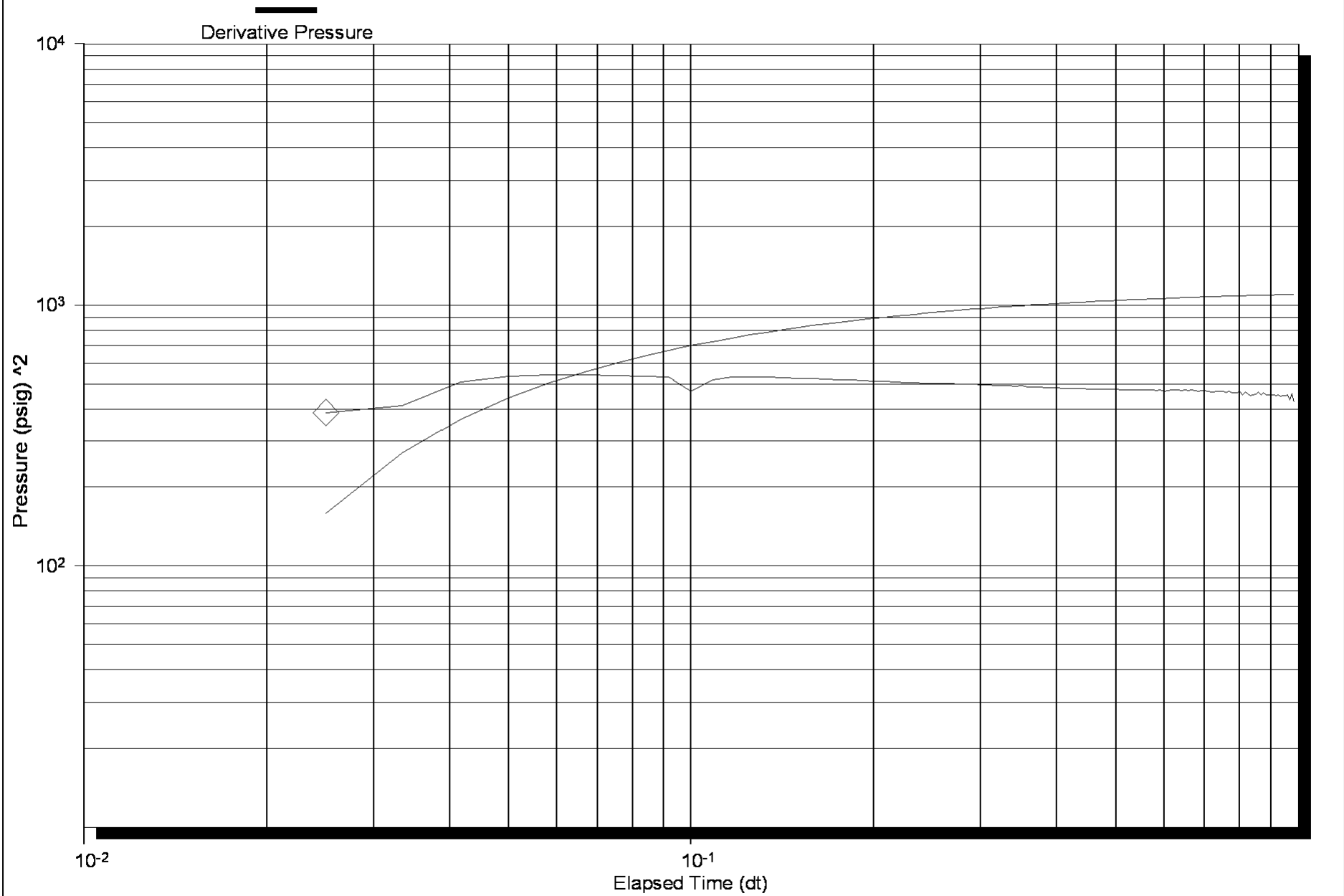
### Horner Plot



### Horner Plot



### Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative

