



## 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: 2011.08.22 @ 18:20:23

End Date: 2011.08.23 @ 02:28:23

Job Ticket #: 44295                      DST #: 3

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



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TESTING, INC.**

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

Job Ticket: 44295

**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2011.08.22 @ 18:20:23

## GENERAL INFORMATION:

Formation: **KC "C,D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:43:53

Time Test Ended: 02:28:23

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 3404.00 ft (KB) To 3446.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6753 Inside**

Press @ Run Depth: 62.70 psig @ 3409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.22

End Date:

2011.08.23

Last Calib.:

2011.08.23

Start Time: 18:20:28

End Time:

02:28:22

Time On Btm:

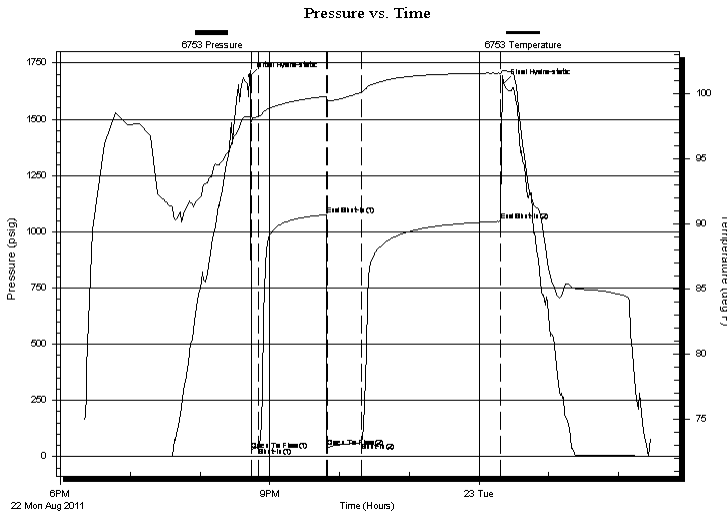
2011.08.22 @ 20:42:23

Time Off Btm:

2011.08.23 @ 00:21:23

**TEST COMMENT:** 5min IF-41/2in blow  
60min ISI-No blow  
30min FF-BOB in 3min  
120min FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.60	98.29	Initial Hydro-static
2	30.10	97.90	Open To Flow (1)
8	42.28	98.28	Shut-In(1)
66	1075.63	99.82	End Shut-In(1)
67	41.61	99.51	Open To Flow (2)
97	62.70	100.15	Shut-In(2)
217	1046.74	101.61	End Shut-In(2)
219	1659.85	101.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	SGMCO 10%G 70%O 20%M	1.34
0.00	370ft GIP	0.00

## Gas Rates

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



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Job Ticket: 44295

**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2011.08.22 @ 18:20:23

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Deviated: No Whipstock: ft (KB)

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Time Test Ended: 02:28:23

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 3404.00 ft (KB) To 3446.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

## Serial #: 8369 Fluid

Press @ Run Depth: psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.22

End Date:

2011.08.23

Last Calib.:

2011.08.23

Start Time: 18:20:45

End Time:

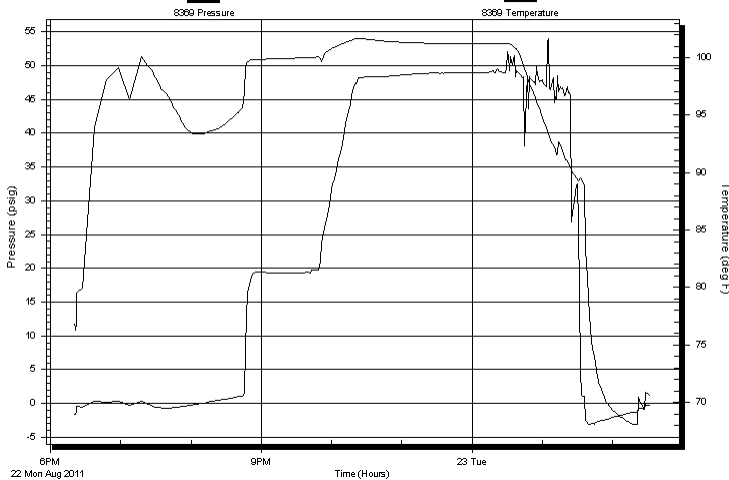
02:32:39

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5min IF-41/2in blow  
60min ISI-No blow  
30min FF-BOB in 3min  
120min FSI-No blow

Pressure vs. Time



## PRESSURE SUMMARY

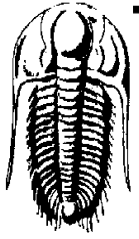
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	SGMCO 10%G 70%O 20%M	1.34
0.00	370ft GIP	0.00

## Gas Rates

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



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Job Ticket: 44295

**DST#: 3**

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Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 3404.00 ft (KB) To 3446.00 ft (KB) (TVD)**

Reference Elevations: 2154.00 ft (KB)

Total Depth: 3446.00 ft (KB) (TVD)

2146.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press @ Run Depth: psig @ 3409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.22

End Date: 2011.08.23

Last Calib.: 2011.08.23

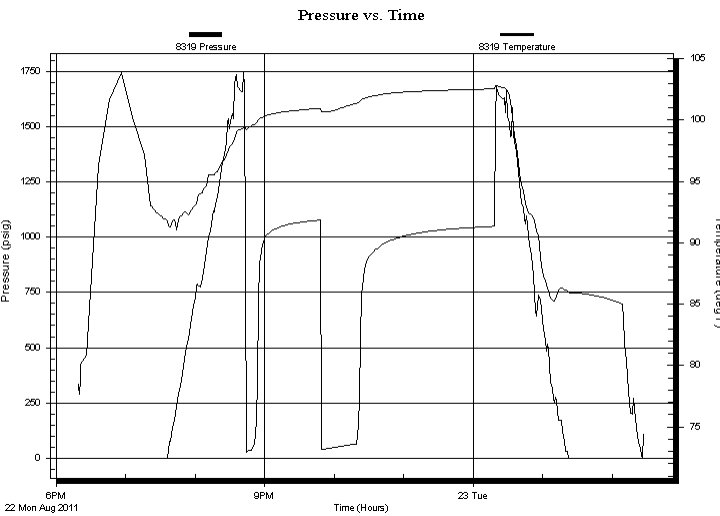
Start Time: 18:19:28

End Time: 02:27:52

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5min IF-41/2in blow  
60min ISI-No blow  
30min FF-BOB in 3min  
120min FSI-No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	SGMCO 10%G 70%O 20%M	1.34
0.00	370ft GIP	0.00

## 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.

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Job Ticket: 44295

**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2011.08.22 @ 18:20:23

## Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3404.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3372.00	
Drill Pipe	5.00			3377.00	
Recorder	0.00	8369	Fluid	3377.00	
Shut In Tool	5.00			3382.00	
Hydraulic tool	5.00			3387.00	
Jars	5.00			3392.00	
Safety Joint	2.00			3394.00	
Packer	5.00			3399.00	33.00 Bottom Of Top Packer
Packer	5.00			3404.00	
Packer - Shale	0.00			3404.00	
Stubb	1.00			3405.00	
Perforations	4.00			3409.00	
Recorder	0.00	6753	Inside	3409.00	
Recorder	0.00	8319	Outside	3409.00	
Change Over Sub	1.00			3410.00	
Blank Spacing	32.00			3442.00	
Change Over Sub	1.00			3443.00	
Bullnose	3.00			3446.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



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**FLUID SUMMARY**

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**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2011.08.22 @ 18:20:23

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	SGMCO 10%G 70%O 20%M	1.340
0.00	370ft GIP	0.000

Total Length: 115.00 ft      Total Volume: 1.340 bbl

Num Fluid Samples: 0

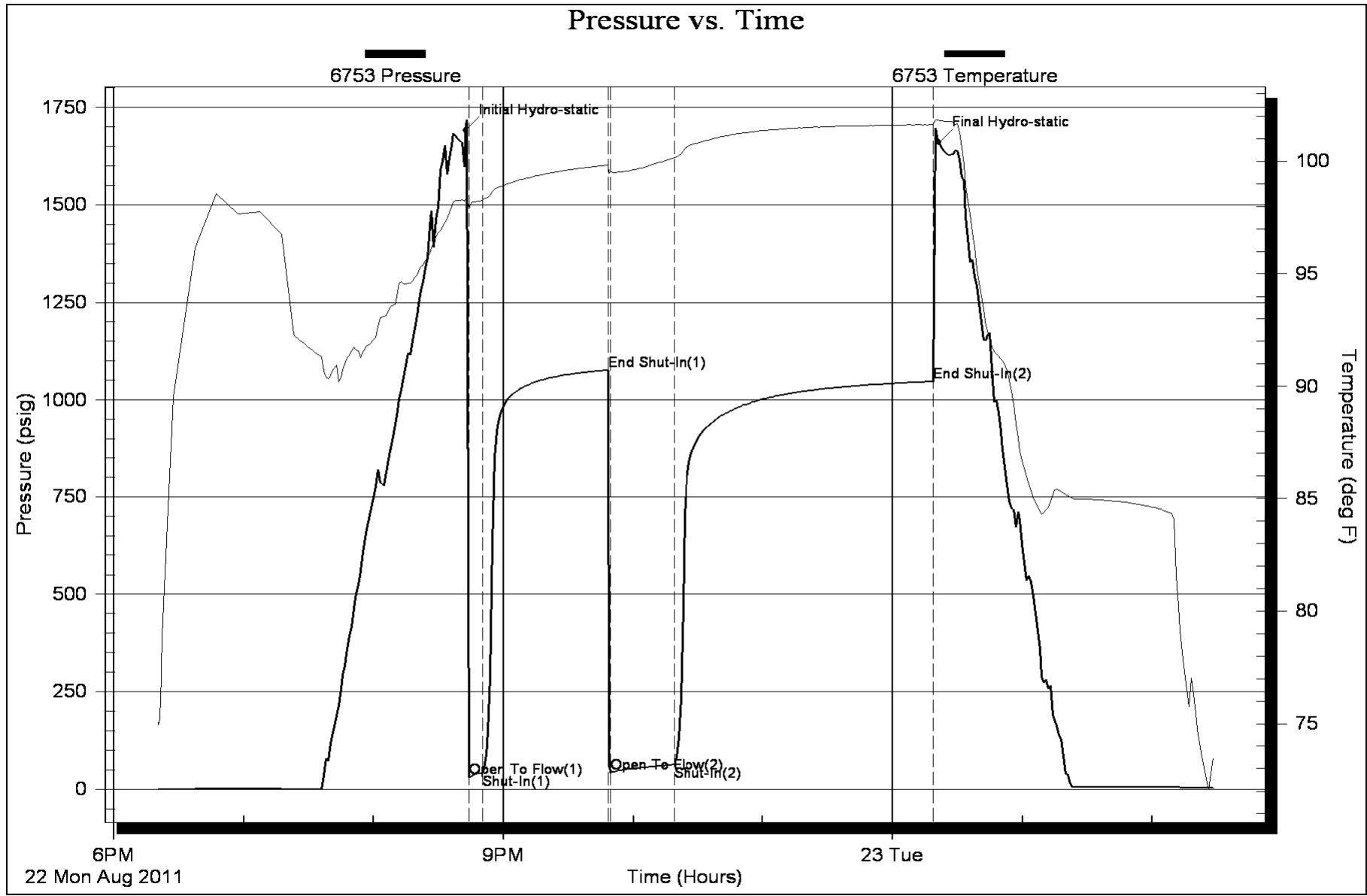
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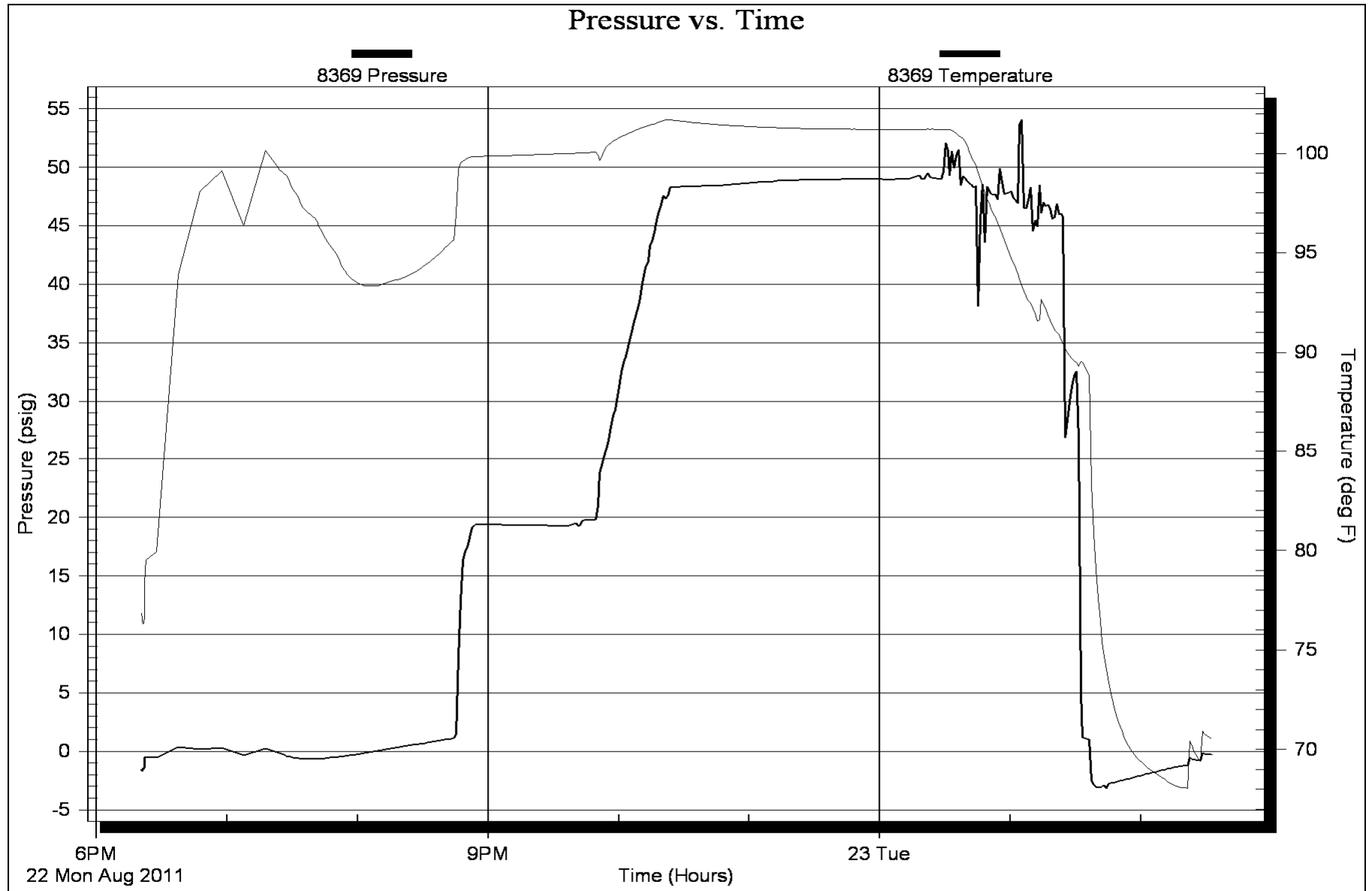
Serial #:

Laboratory Name:

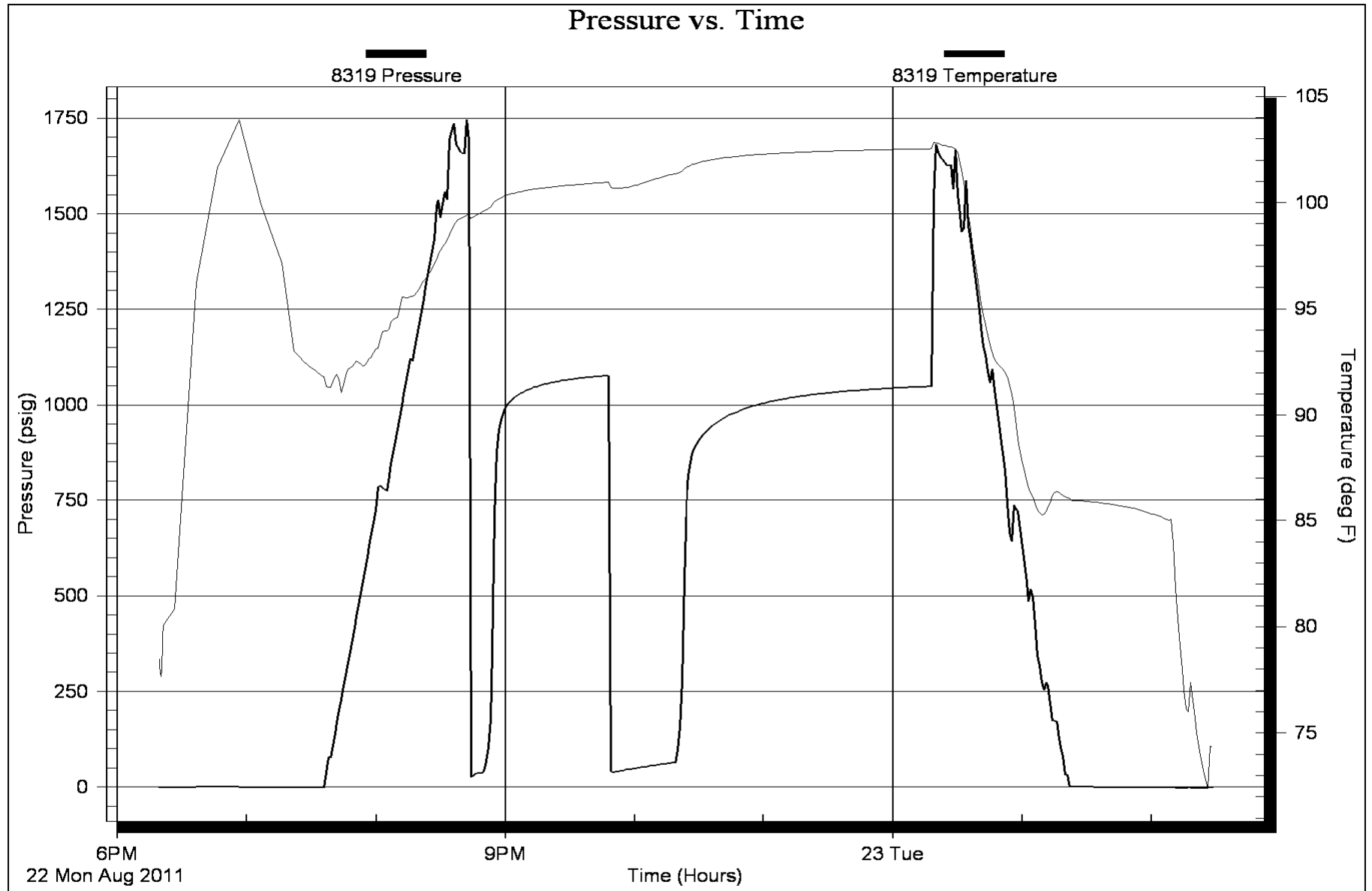
Laboratory Location:

Recovery Comments: Sampler Data 2200 O 200M 600G 600PSI

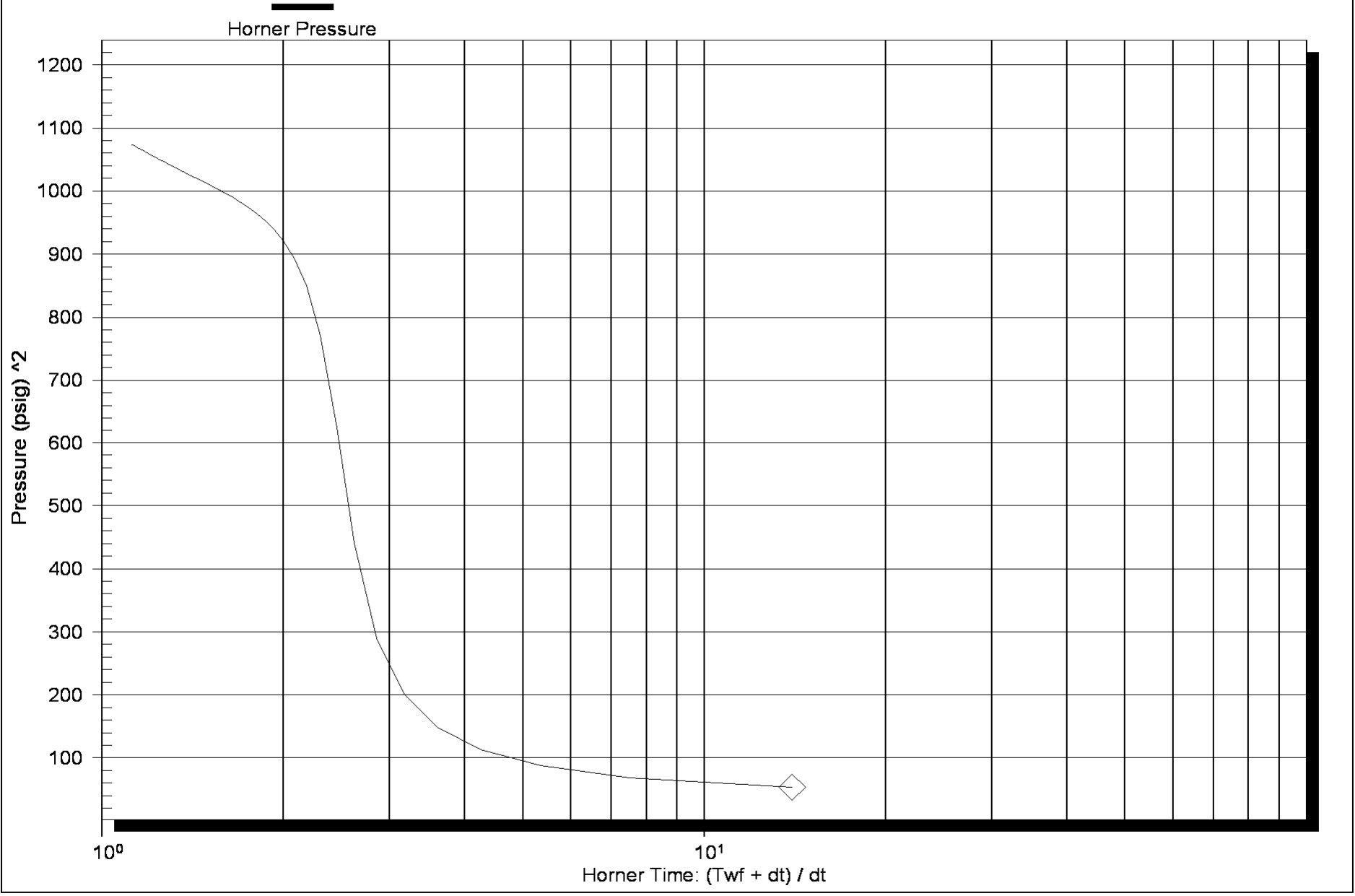




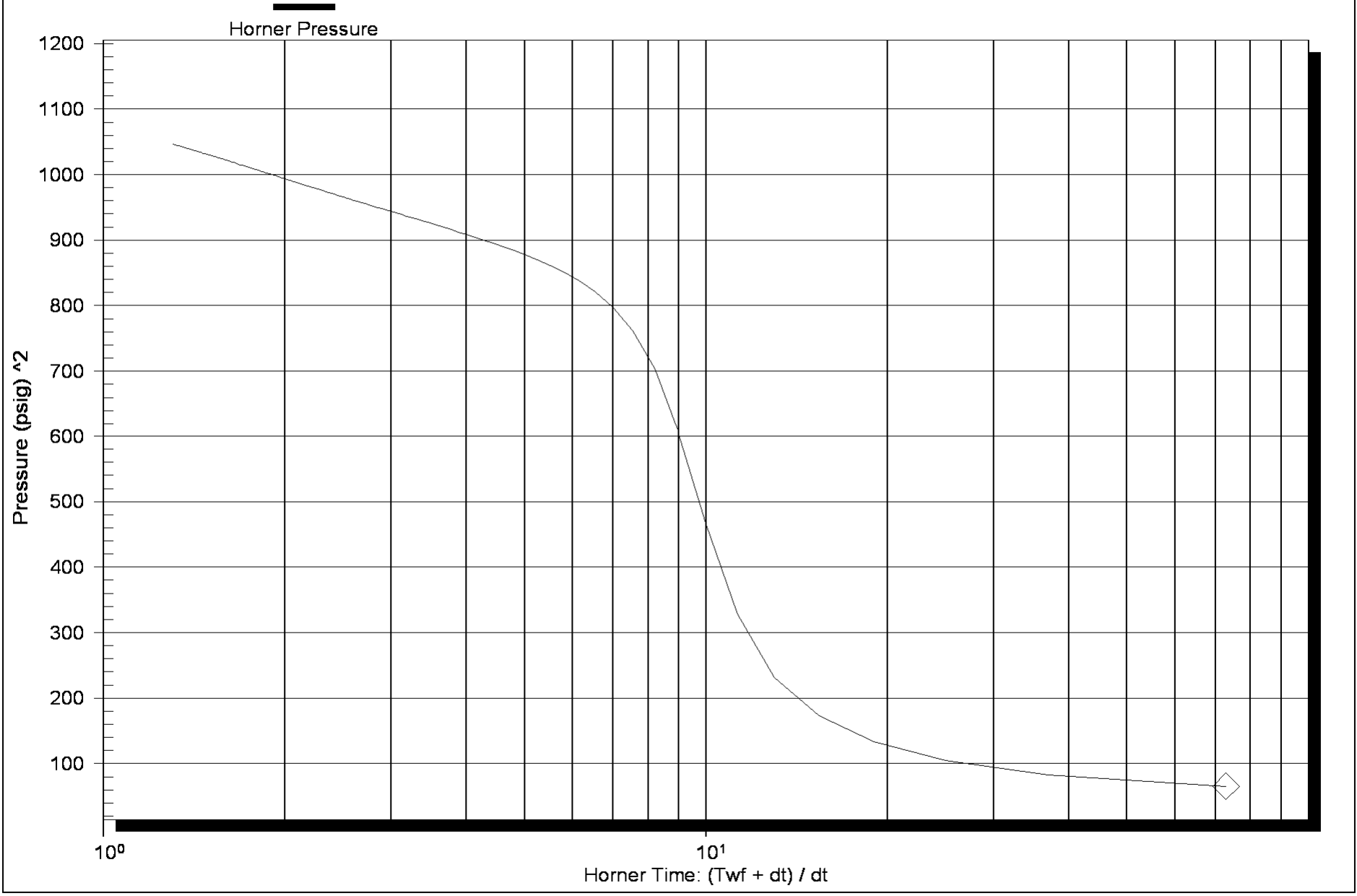




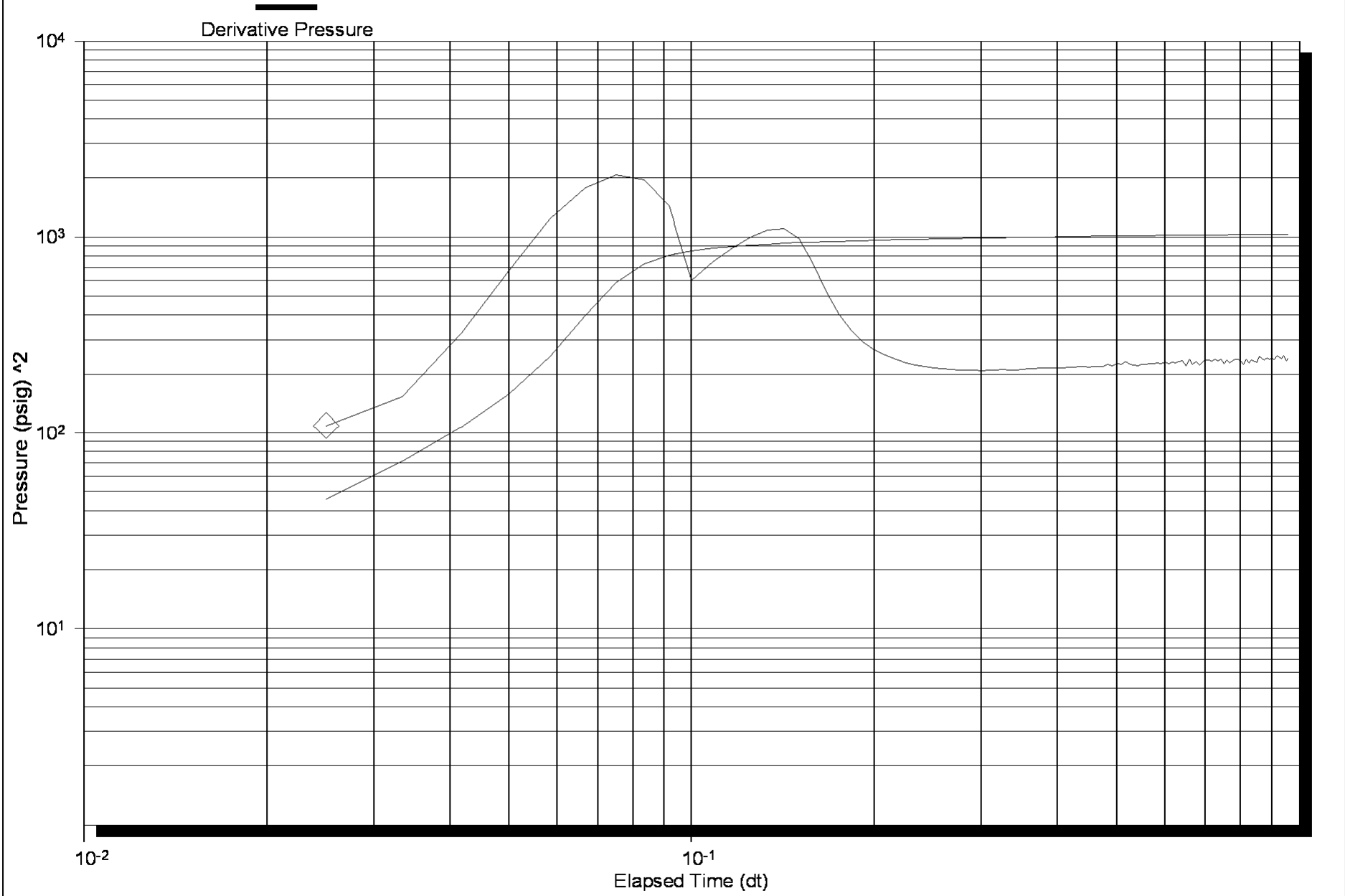
### Horner Plot



### Horner Plot



### Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative

