



## DRILL STEM TEST REPORT

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

1515 Wynkoop  
Ste700  
Denver Co 80202

ATTN: Clayton Camozzi

**Liebl #2-1**

**1-18s-12w Barton**

Start Date: 2011.10.11 @ 21:50:25

End Date: 2011.10.12 @ 03:16:19

Job Ticket #: 44571                      DST #: 1

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

Printed: 2011.10.12 @ 11:15:42

Samuel Gary Jr & Assoc Inc  
1-18s-12w Barton  
Liebl #2-1  
DST # 1  
LKC "C"  
2011.10.11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

**1-18s-12w Barton**

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Ste700  
Denver Co 80202  
ATTN: Clayton Camozzi

**Liebl #2-1**

Job Ticket: 44571

**DST#: 1**

Test Start: 2011.10.11 @ 21:50:25

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:24:20

Time Test Ended: 03:16:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

**Interval: 3100.00 ft (KB) To 3126.00 ft (KB) (TVD)**

Reference Elevations: 1843.00 ft (KB)

Total Depth: 3126.00 ft (KB) (TVD)

1835.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 24.27 psig @ 3101.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.11 End Date: 2011.10.12

Last Calib.: 2011.10.12

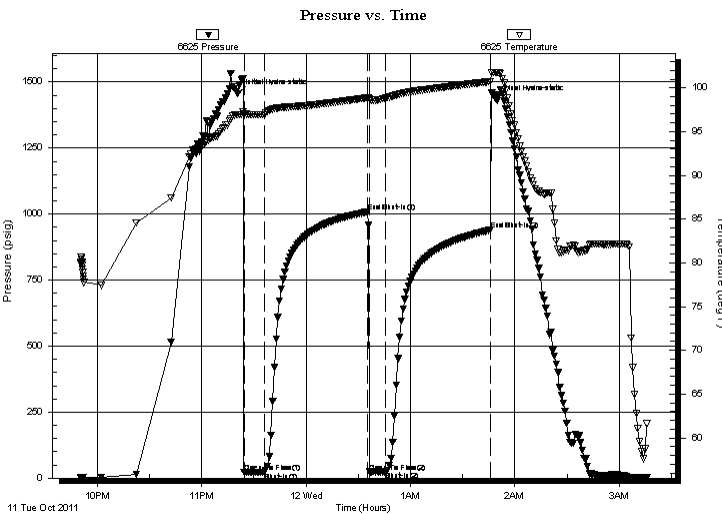
Start Time: 21:50:25 End Time: 03:16:19

Time On Btm: 2011.10.11 @ 23:20:50

Time Off Btm: 2011.10.12 @ 01:49:20

**TEST COMMENT:** 10-IFP-surface bl  
60-ISIP-no bl bk  
10-FFP-no bl  
60-FSIP-no bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1456.78	96.93	Initial Hydro-static
4	21.36	97.09	Open To Flow (1)
15	22.74	96.96	Shut-In(1)
75	1007.95	98.87	End Shut-In(1)
76	23.74	98.71	Open To Flow (2)
85	24.27	98.84	Shut-In(2)
145	939.54	100.73	End Shut-In(2)
149	1433.07	101.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

## Gas Rates

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





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Reference Elevations: 1843.00 ft (KB)

Total Depth: 3126.00 ft (KB) (TVD)

1835.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8374 Fluid**

Press @ Run Depth: psig @ 3065.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.11

End Date:

2011.10.11

Last Calib.:

2011.10.12

Start Time: 12:50:47

End Time:

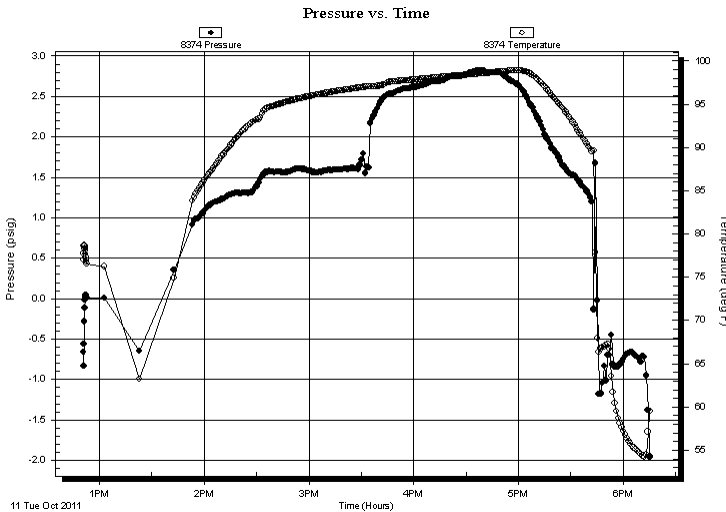
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Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IFP-surface bl  
60-ISIP-no bl bk  
10-FFP-no bl  
60-FSIP-no bl bk

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr & Assoc Inc

**1-18s-12w Barton**

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Ste700  
Denver Co 80202  
ATTN: Clayton Camozzi

**Liebl #2-1**

Job Ticket: 44571

**DST#: 1**

Test Start: 2011.10.11 @ 21:50:25

## Tool Information

Drill Pipe:	Length: 3090.00 ft	Diameter: 3.80 inches	Volume: 43.34 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: 60000.00 lb
			<u>Total Volume: 43.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3100.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8374	Fluid	3065.00	
Blank Spacing	5.00			3070.00	
Change Over Sub	1.00			3071.00	
Shut In Tool	5.00			3076.00	
Sampler	2.00			3078.00	
Hydraulic tool	5.00			3083.00	
Jars	5.00			3088.00	
Safety Joint	2.00			3090.00	
Packer	5.00			3095.00	35.00 Bottom Of Top Packer
Packer	5.00			3100.00	
Stubb	1.00			3101.00	
Recorder	0.00	6625	Inside	3101.00	
Recorder	0.00	8700	Outside	3101.00	
Perforations	22.00			3123.00	
Bullnose	3.00			3126.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



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**FLUID SUMMARY**

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## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.19 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

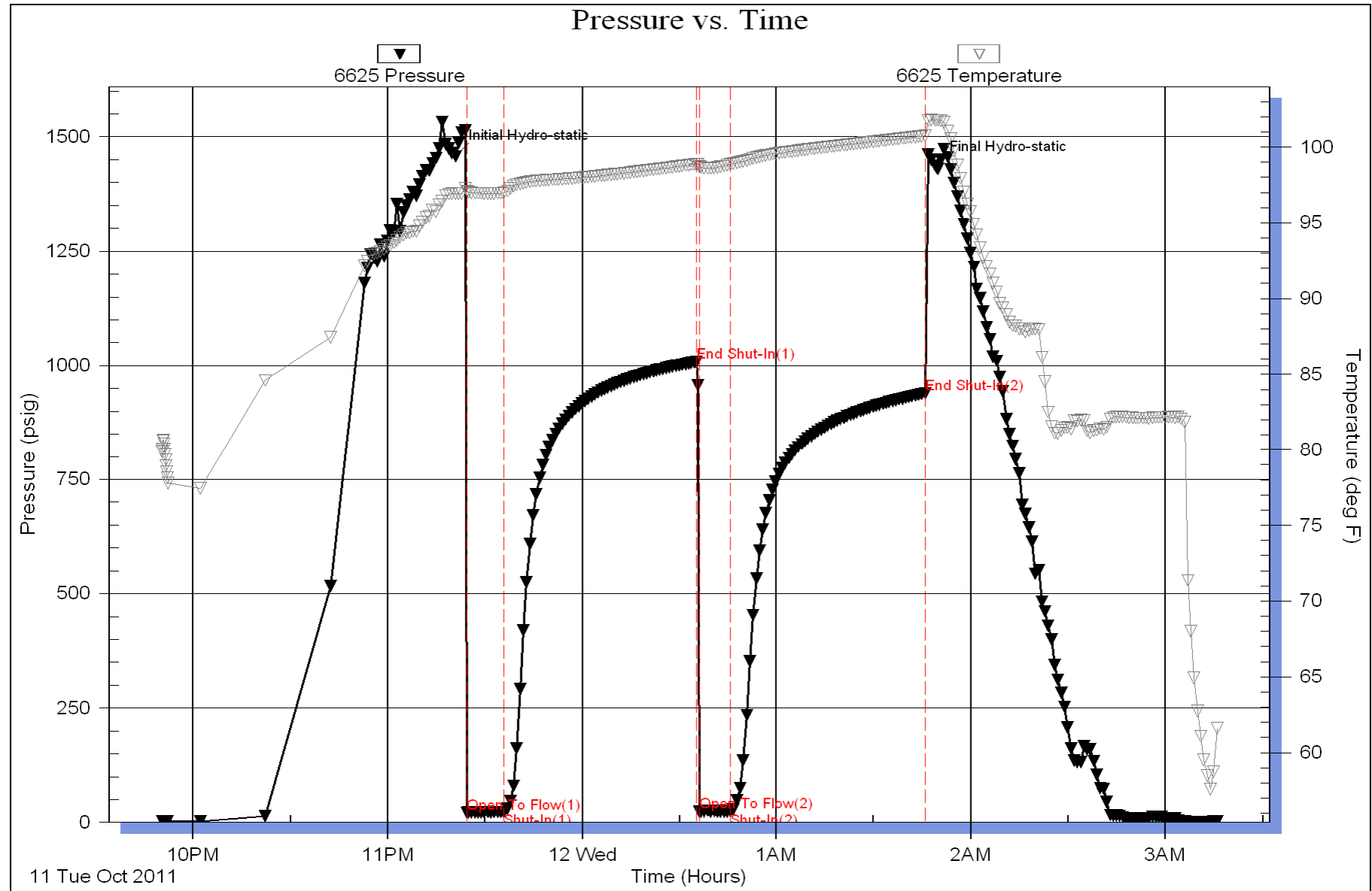
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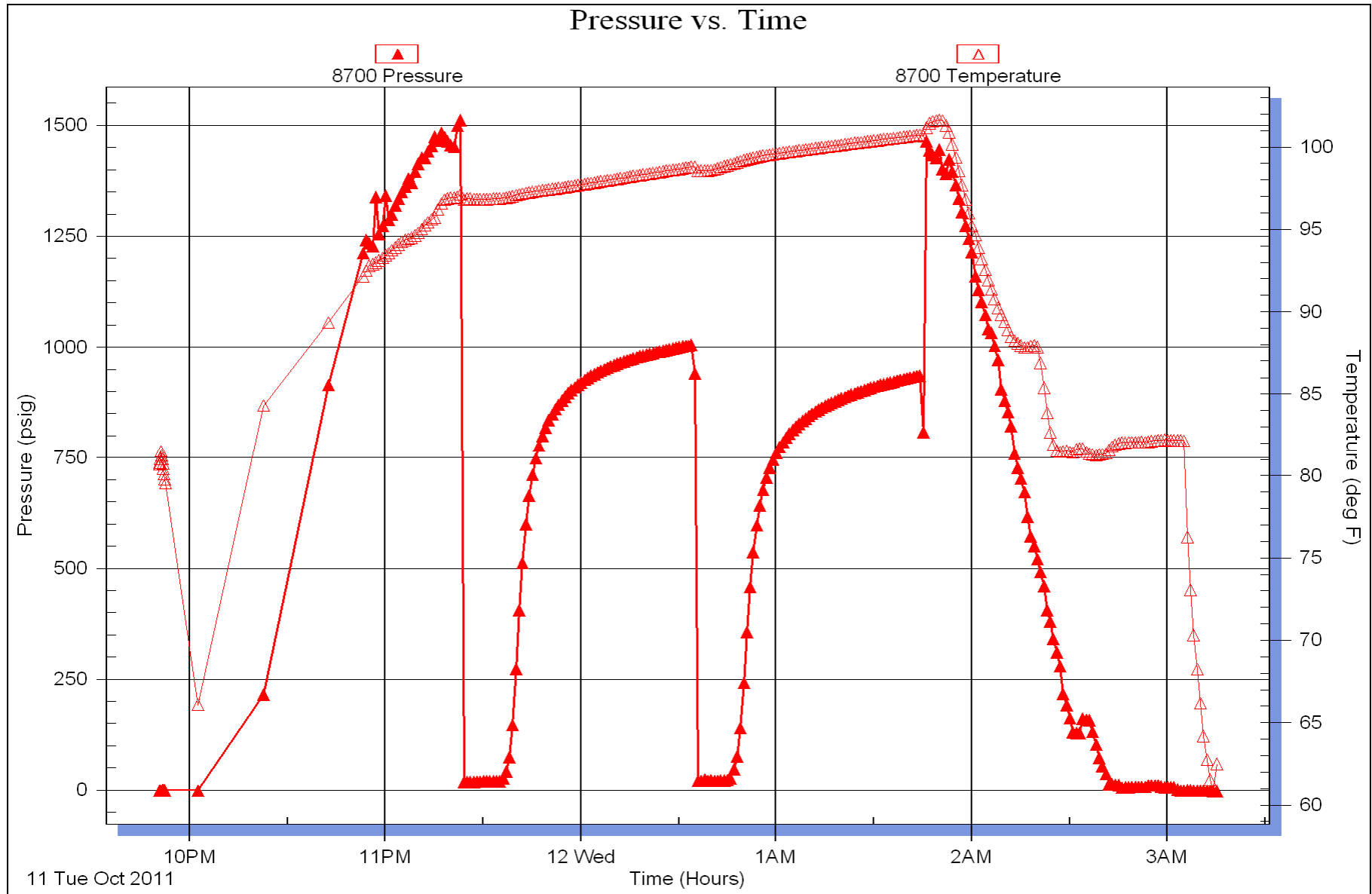
Serial #:

Laboratory Name:

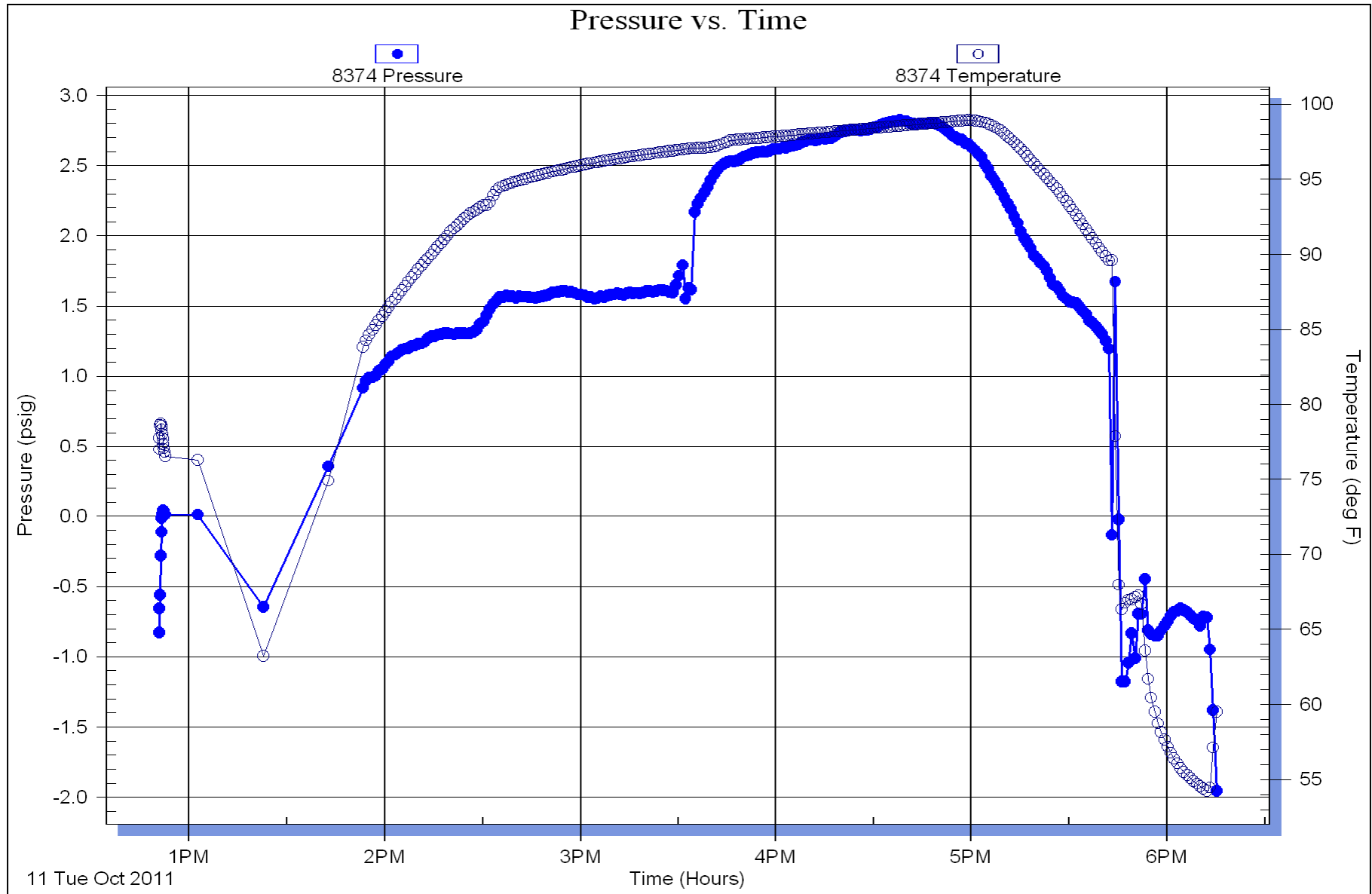
Laboratory Location:

Recovery Comments: Sampler Data:2000ML Mud 50PSI

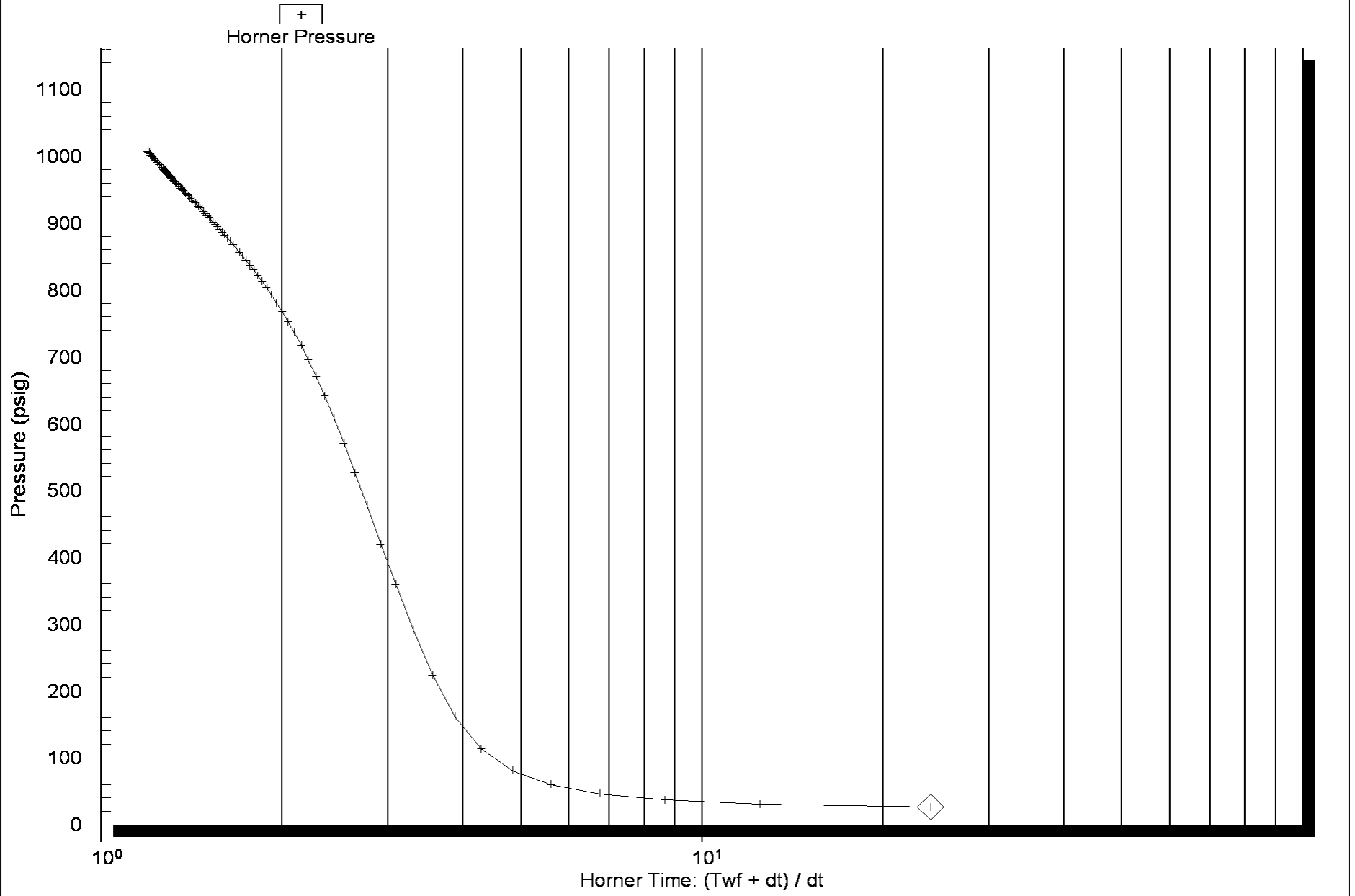








### Horner Plot



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