



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates**

1515 Wynkoop  
Suite 700  
Denver, CO. 80202

ATTN: Tom Fertal

**34-14s-17w-Ellis**

**Herl #1-34**

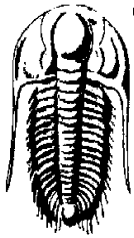
Start Date: 2011.08.26 @ 21:53:15

End Date: 2011.08.27 @ 05:49:45

Job Ticket #: 43568                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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Printed: 2011.11.08 @ 15:01:23



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Job Ticket: 43568

**DST#: 2**

Test Start: 2011.08.26 @ 21:53:15

## GENERAL INFORMATION:

Formation: **D-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:44:15

Time Test Ended: 05:49:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3259.00 ft (KB) To 3308.00 ft (KB) (TVD)**

Reference Elevations: 1959.00 ft (KB)

Total Depth: 3308.00 ft (KB) (TVD)

1951.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8673 Inside**

Press @ Run Depth: 109.36 psig @ 3294.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.26

End Date:

2011.08.27

Last Calib.:

2011.08.27

Start Time: 21:53:17

End Time:

05:49:45

Time On Btm:

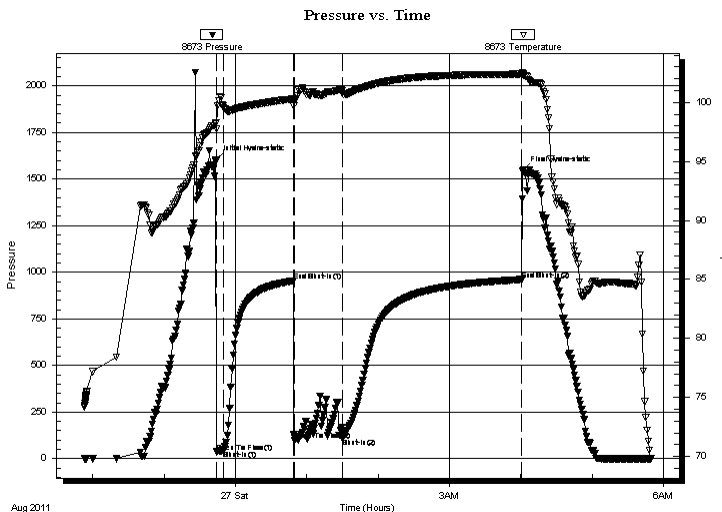
2011.08.26 @ 23:43:45

Time Off Btm:

2011.08.27 @ 04:01:45

**TEST COMMENT:** IFP-5 min-Built to 2-1/8"  
ISI-60 min.-Dead  
FFP-45min-Built to 2-1/8"  
FSI-150min-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1601.23	98.24	Initial Hydro-static
1	36.73	97.73	Open To Flow (1)
6	44.66	99.55	Shut-In(1)
66	954.45	100.29	End Shut-In(1)
66	100.96	100.34	Open To Flow (2)
106	109.36	100.97	Shut-In(2)
257	960.85	102.40	End Shut-In(2)
258	1544.53	102.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling Mud	0.98

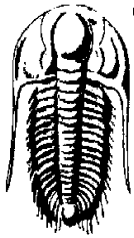
## Gas Rates

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

\* Recovery from multiple tests







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TESTING, INC.**

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**TOOL DIAGRAM**

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Job Ticket: 43568

**DST#: 2**

Test Start: 2011.08.26 @ 21:53:15

## Tool Information

Drill Pipe:	Length: 3249.00 ft	Diameter: 3.80 inches	Volume: 45.57 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3259.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	84.00 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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Change Over Sub	1.00			3225.00	
Recorder	0.00	6755	Fluid	3225.00	
Change Over Sub	4.00			3229.00	
Shut In Tool	5.00			3234.00	
Sampler	3.00			3237.00	
Hydraulic tool	5.00			3242.00	
Jars	5.00			3247.00	
Safety Joint	2.00			3249.00	
Packer	5.00			3254.00	35.00 Bottom Of Top Packer
Packer	5.00			3259.00	
Stubb	1.00			3260.00	
Perforations	1.00			3261.00	
Change Over Sub	1.00			3262.00	
Blank Spacing	31.00			3293.00	
Change Over Sub	1.00			3294.00	
Recorder	0.00	8673	Inside	3294.00	
Recorder	0.00	8736	Outside	3294.00	
Perforations	11.00			3305.00	
Bullnose	3.00			3308.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



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**FLUID SUMMARY**

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Job Ticket: 43568

**DST#: 2**

Test Start: 2011.08.26 @ 21:53:15

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 cm<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drilling Mud	0.982

Total Length: 70.00 ft      Total Volume: 0.982 bbl

Num Fluid Samples: 0

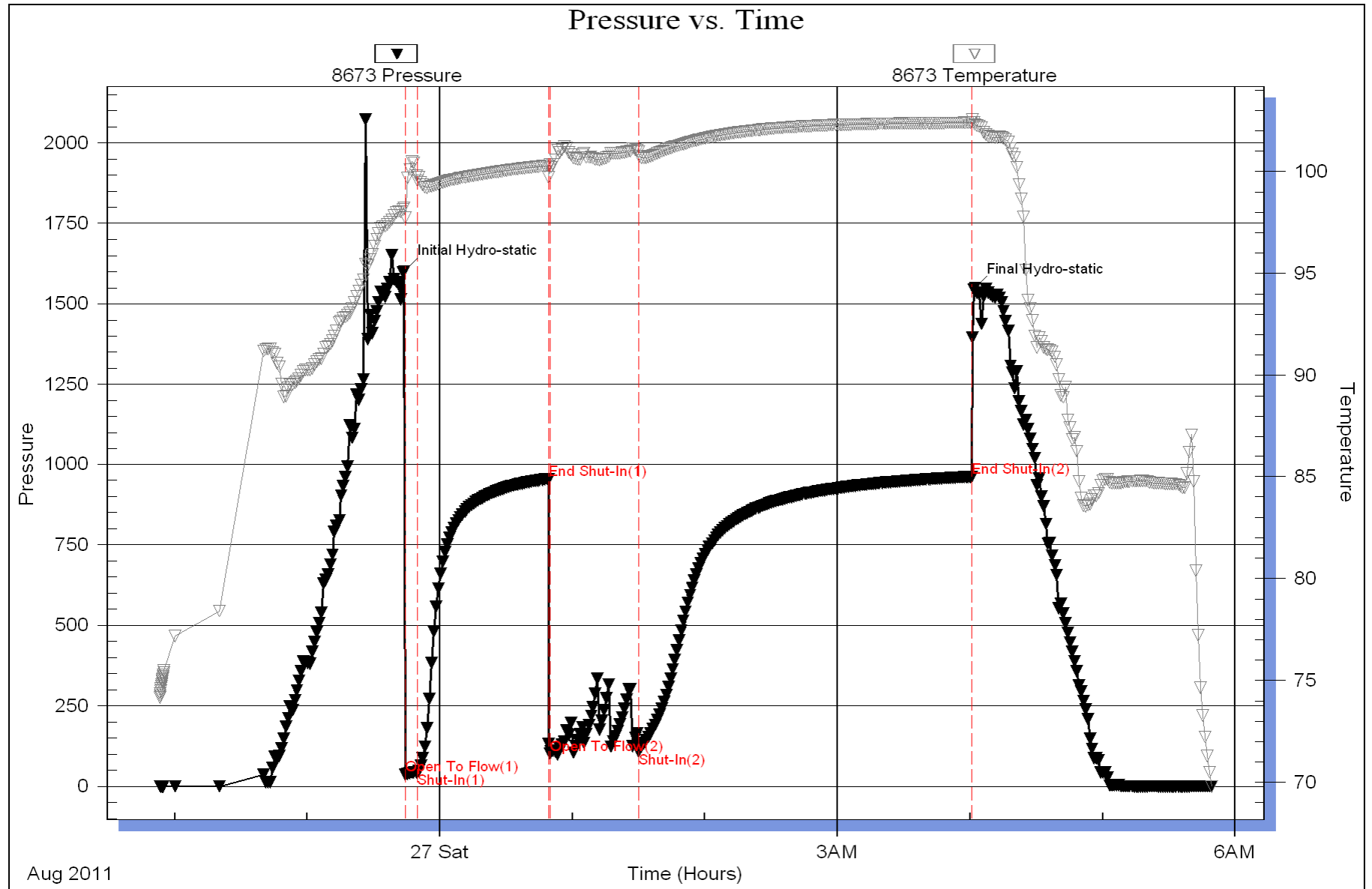
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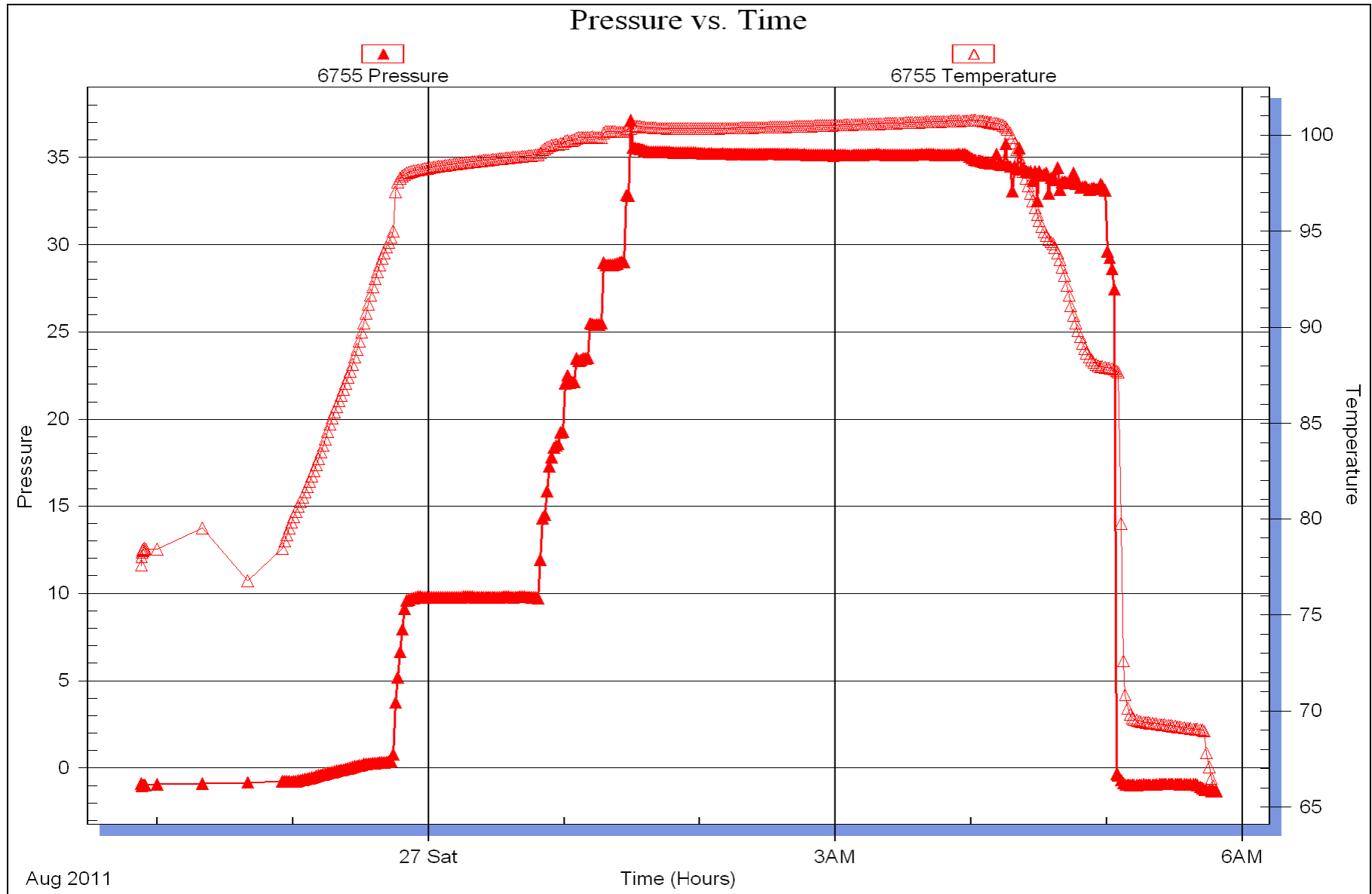
Serial #:

Laboratory Name:

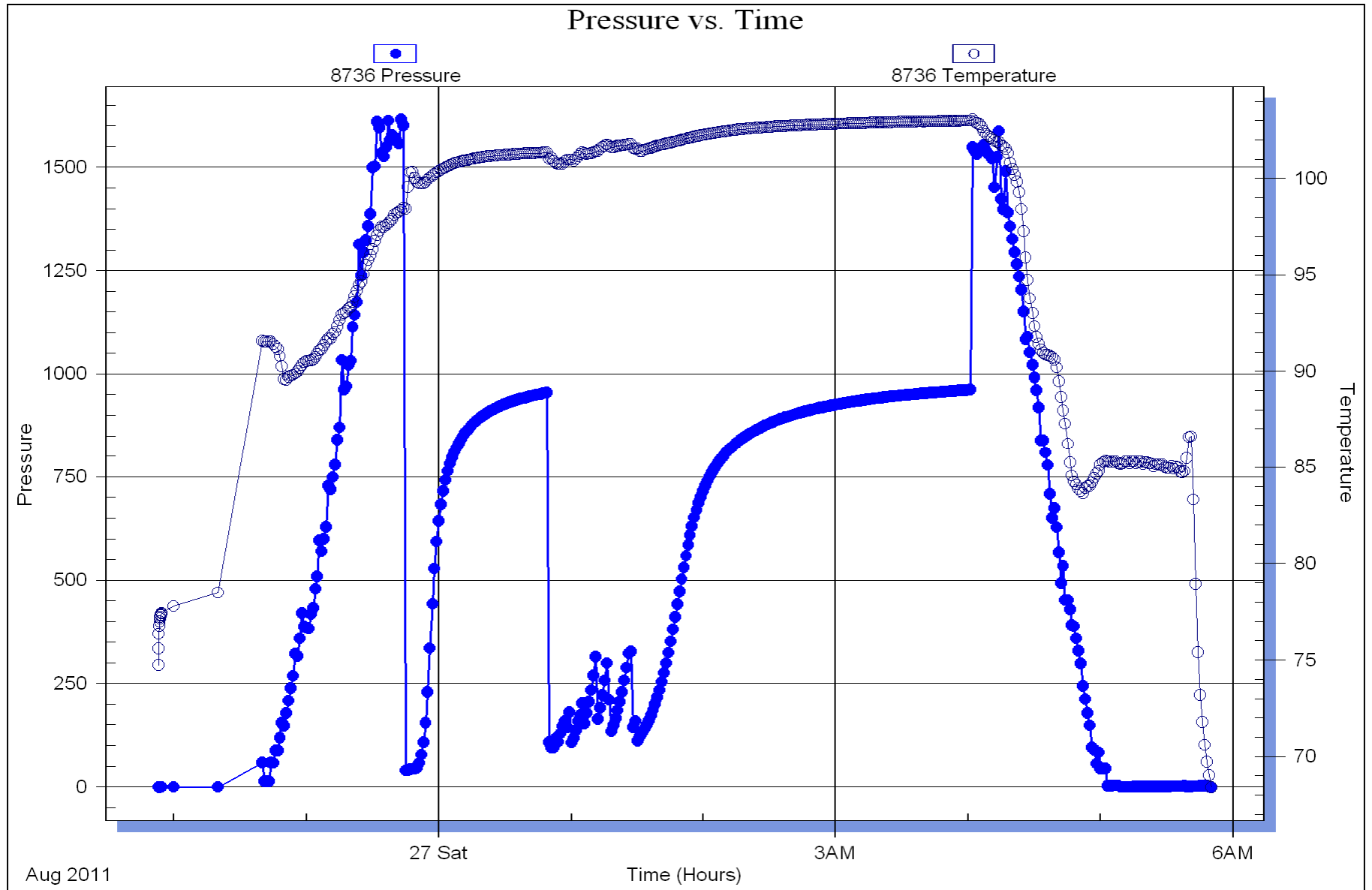
Laboratory Location:

Recovery Comments:

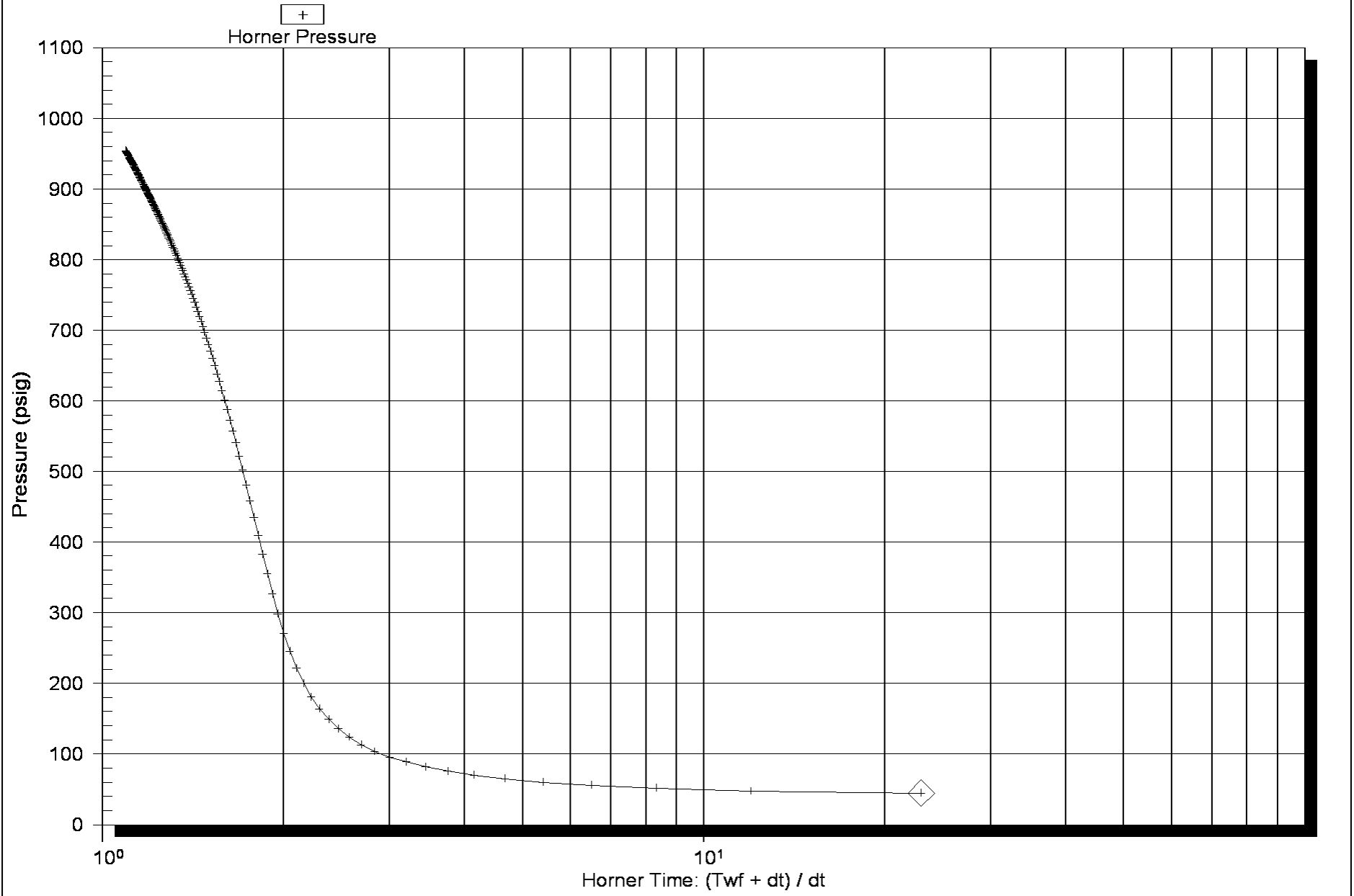








### Horner Plot



### Horner Plot

