



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: 2011.08.27 @ 12:21:46

End Date: 2011.08.27 @ 20:40:46

Job Ticket #: 43569 DST #: 3

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

Printed: 2011.11.08 @ 15:03:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

Herl #1-34

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Tom Fertal

34-14s-17w-Ellis

Job Ticket: 43569

DST#: 3

Test Start: 2011.08.27 @ 12:21:46

GENERAL INFORMATION:

Formation: **Lower G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:02:31

Time Test Ended: 20:40:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3312.00 ft (KB) To 3325.00 ft (KB) (TVD)

Reference Elevations: 1959.00 ft (KB)

Total Depth: 3325.00 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: 71.64 psig @ 3314.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.27 End Date: 2011.08.27

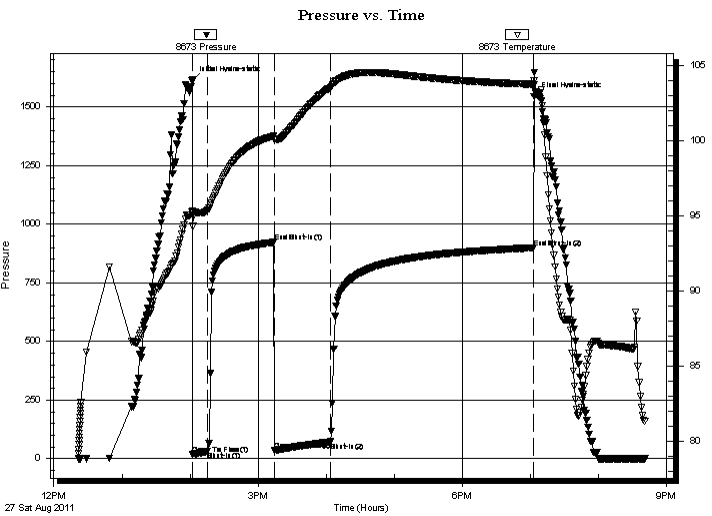
Last Calib.: 2011.08.27

Start Time: 12:21:48 End Time: 20:40:46

Time On Btm: 2011.08.27 @ 14:02:16

Time Off Btm: 2011.08.27 @ 19:03:16

TEST COMMENT: IFP-Fair Blow ,Built to 3"
ISI-Dead
FFP-Fair Blow , Built to 7-1/2"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.69	95.30	Initial Hydro-static
1	17.86	94.30	Open To Flow (1)
14	31.02	95.36	Shut-In(1)
72	922.75	100.29	End Shut-In(1)
73	35.72	100.01	Open To Flow (2)
122	71.64	103.51	Shut-In(2)
301	899.62	103.72	End Shut-In(2)
301	1545.43	103.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
89.00	Salt Water	1.25
1.00	Free Oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

Herl #1-34

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Tom Fertal

34-14s-17w-Ellis

Job Ticket: 43569

DST#: 3

Test Start: 2011.08.27 @ 12:21:46

Tool Information

Drill Pipe:	Length: 3281.00 ft	Diameter: 3.80 inches	Volume: 46.02 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: 46.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3312.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3278.00	
Recorder	0.00	8736	Fluid	3278.00	
Change Over Sub	4.00			3282.00	
Shut In Tool	5.00			3287.00	
Sampler	3.00			3290.00	
Hydraulic tool	5.00			3295.00	
Jars	5.00			3300.00	
Safety Joint	2.00			3302.00	
Packer	5.00			3307.00	35.00 Bottom Of Top Packer
Packer	5.00			3312.00	
Stubb	1.00			3313.00	
Perforations	1.00			3314.00	
Recorder	0.00	8673	Inside	3314.00	
Recorder	0.00	6755	Outside	3314.00	
Perforations	8.00			3322.00	
Bullnose	3.00			3325.00	13.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

Herl #1-34

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Tom Fertal

34-14s-17w-Ellis

Job Ticket: 43569

DST#: 3

Test Start: 2011.08.27 @ 12:21:46

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:

75000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 cm³

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 bbbl
89.00	Salt Water	1.248
1.00	Free Oil	0.014

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

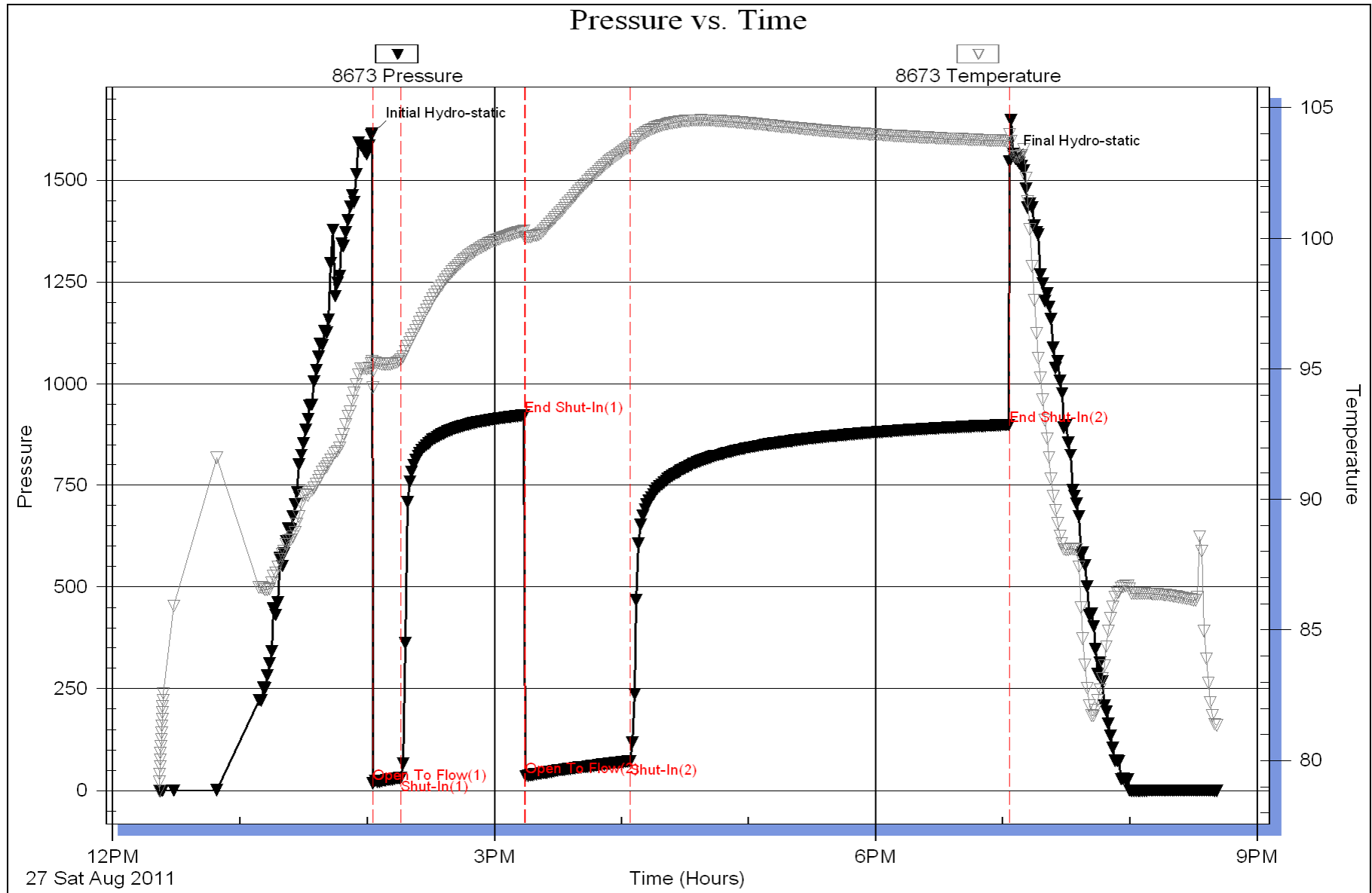
Num Gas Bombs: 0

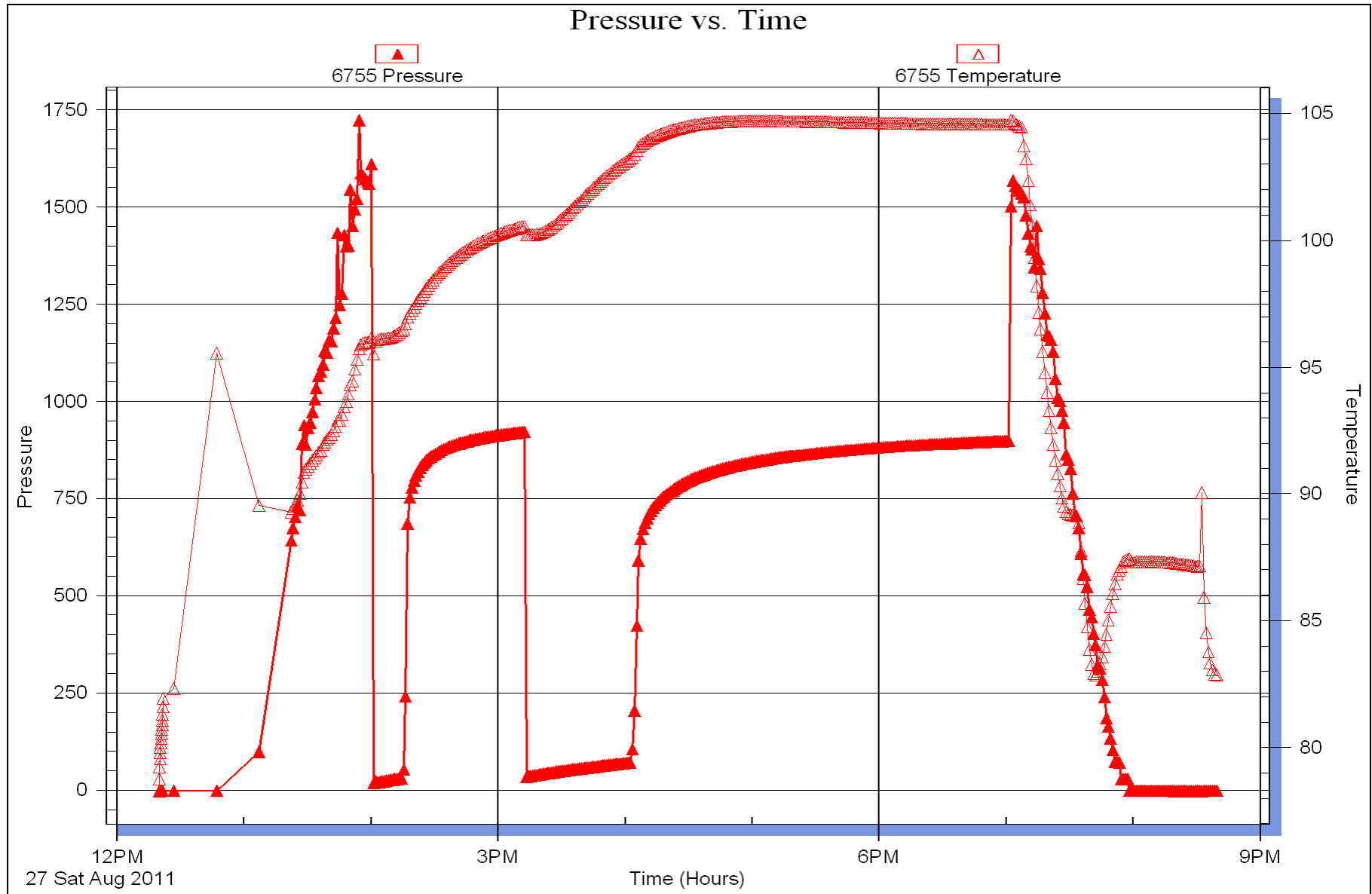
Serial #:

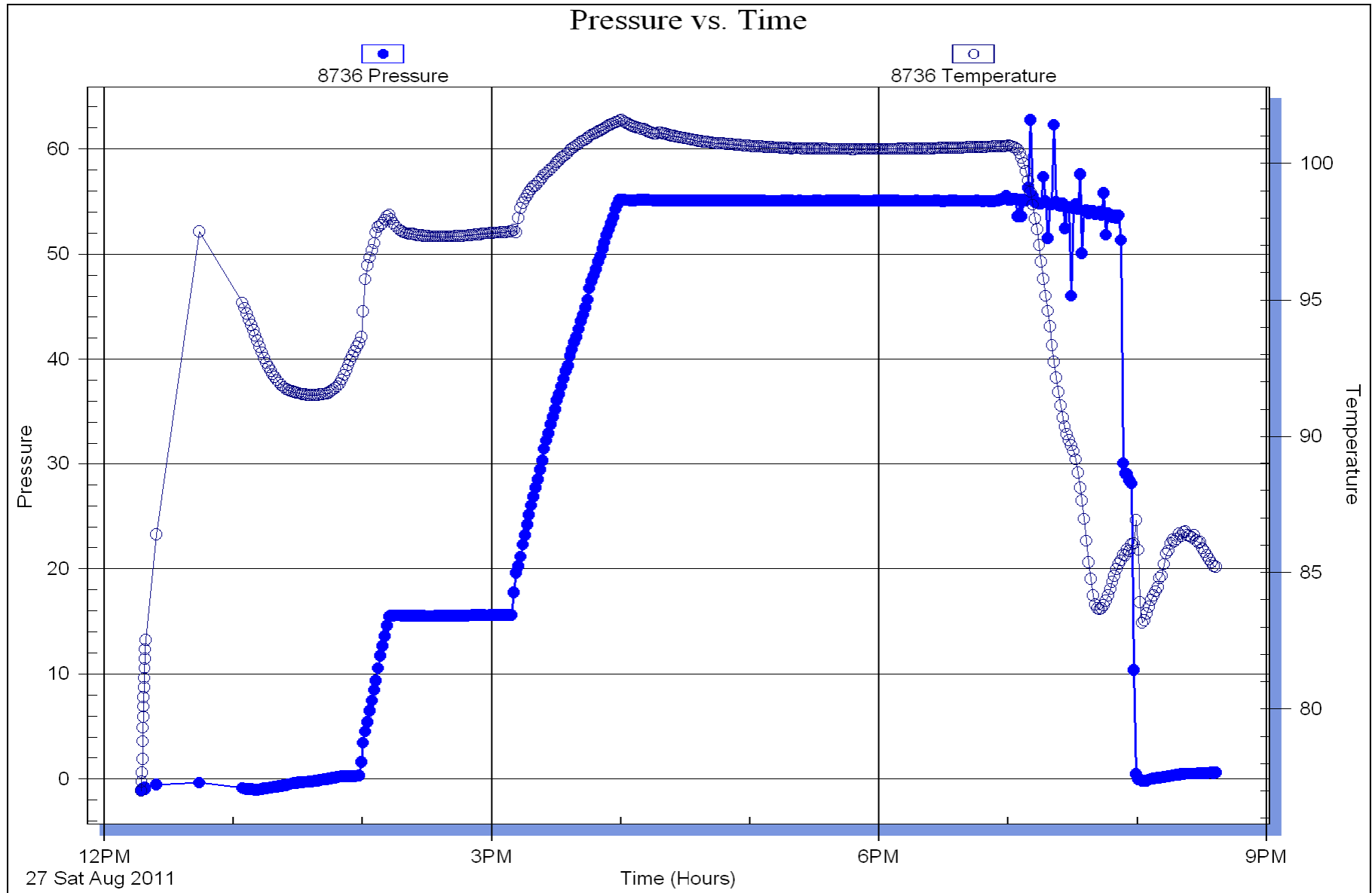
Laboratory Name:

Laboratory Location:

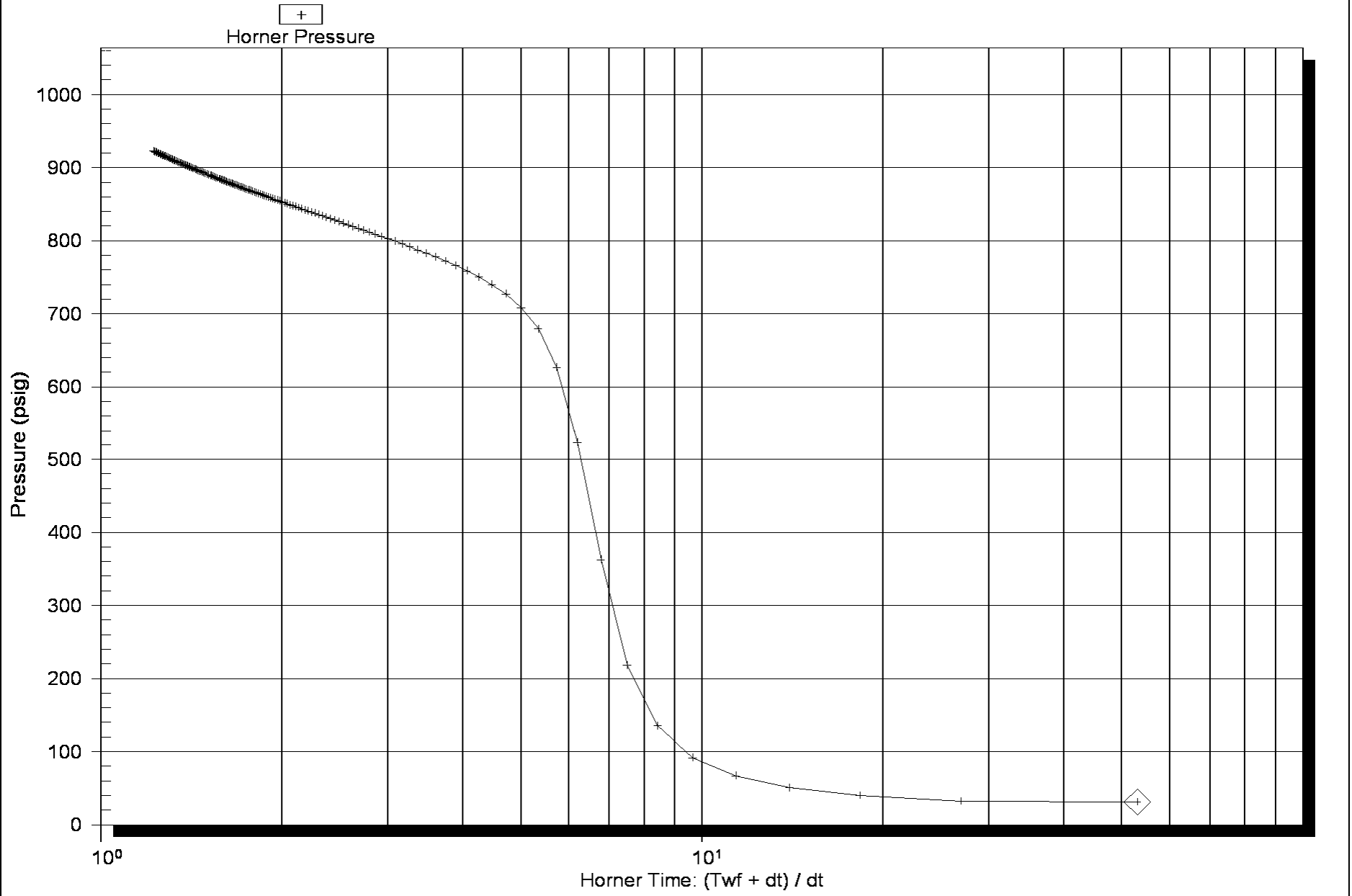
Recovery Comments:







Horner Plot



Horner Plot

