



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

ATTN: Clayton Camozzi

### **Dennis Hopkins 1-6**

#### **6-16-15 Barton, Ks**

Start Date: 2011.11.24 @ 23:25:15

End Date: 2011.11.25 @ 08:46:45

Job Ticket #: 44735                      DST #: 1

Trilobite Testing, Inc  
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Samuel Gary Jr. and Associates, Inc.  
6-16-15 Barton, Ks  
Dennis Hopkins 1-6  
DST # 1  
LKC "H"  
2011.11.24



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**DST#: 1**

Test Start: 2011.11.24 @ 23:25:15

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:13:45

Time Test Ended: 08:46:45

Test Type: Conventional Straddle (Initial)

Tester: Brian Fairbank

Unit No: 41

**Interval: 3355.00 ft (KB) To 3379.00 ft (KB) (TVD)**

Reference Elevations: 1952.00 ft (KB)

Total Depth: 3606.00 ft (KB) (TVD)

1942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 179.59 psig @ 3364.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.24

End Date:

2011.11.25

Last Calib.:

2011.11.25

Start Time: 23:25:16

End Time:

08:46:45

Time On Btm:

2011.11.25 @ 02:12:45

Time Off Btm:

2011.11.25 @ 06:47:15

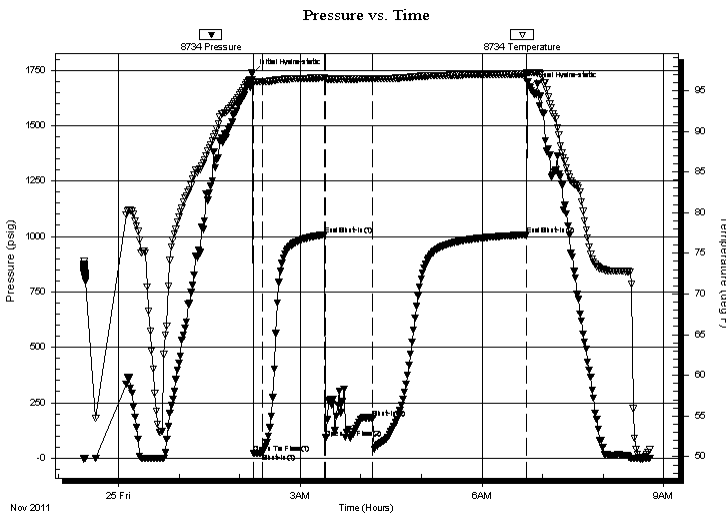
**TEST COMMENT:** 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

50 - FFP - no blow 18 min - 5 1/2"

150 - FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.60	96.36	Initial Hydro-static
1	21.35	96.00	Open To Flow (1)
10	22.68	96.08	Shut-In(1)
72	1008.11	96.56	End Shut-In(1)
73	91.88	96.35	Open To Flow (2)
119	179.59	96.46	Shut-In(2)
272	1007.64	97.03	End Shut-In(2)
275	1677.57	97.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
52.00	SGOCM 5%G, 5%O, 90%M	0.73
3.00	FREE OIL 95%O, 5%M	0.04
0.00	30' GIP	0.00

## Gas Rates

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









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**TOOL DIAGRAM**

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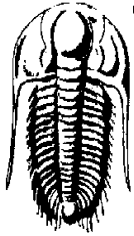
## Tool Information

Drill Pipe:	Length: 3338.00 ft	Diameter: 3.80 inches	Volume: 46.82 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3355.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	3379.00 ft			
Interval between Packers:	24.00 ft			
Tool Length:	290.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	6672	Fluid	3321.00	
Blank Spacing	5.00			3326.00	
Shut In Tool	5.00			3331.00	
Sampler	2.00			3333.00	
Hydraulic tool	5.00			3338.00	
Jars	5.00			3343.00	
Safety Joint	2.00			3345.00	
Packer	5.00			3350.00	34.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Perforations	8.00			3364.00	
Recorder	0.00	8372	Inside	3364.00	
Recorder	0.00	8734	Outside	3364.00	
Perforations	10.00			3374.00	
Blank Off Sub	1.00			3375.00	
Blank Spacing	4.00			3379.00	24.00 Tool Interval
Packer	5.00			3384.00	
Stubb	1.00			3385.00	
Perforations	6.00			3391.00	
Recorder	0.00	8365	Below	3391.00	
Change Over Sub	1.00			3392.00	
Blank Spacing	219.00			3611.00	232.00 Bottom Packers & Anchor

**Total Tool Length: 290.00**



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**FLUID SUMMARY**

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ATTN: Clayton Camozzi

Test Start: 2011.11.24 @ 23:25:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
52.00	SGOCM 5%G, 5%O, 90%M	0.729
3.00	FREE OIL 95%O, 5%M	0.042
0.00	30' GIP	0.000

Total Length: 55.00 ft      Total Volume: 0.771 bbl

Num Fluid Samples: 0

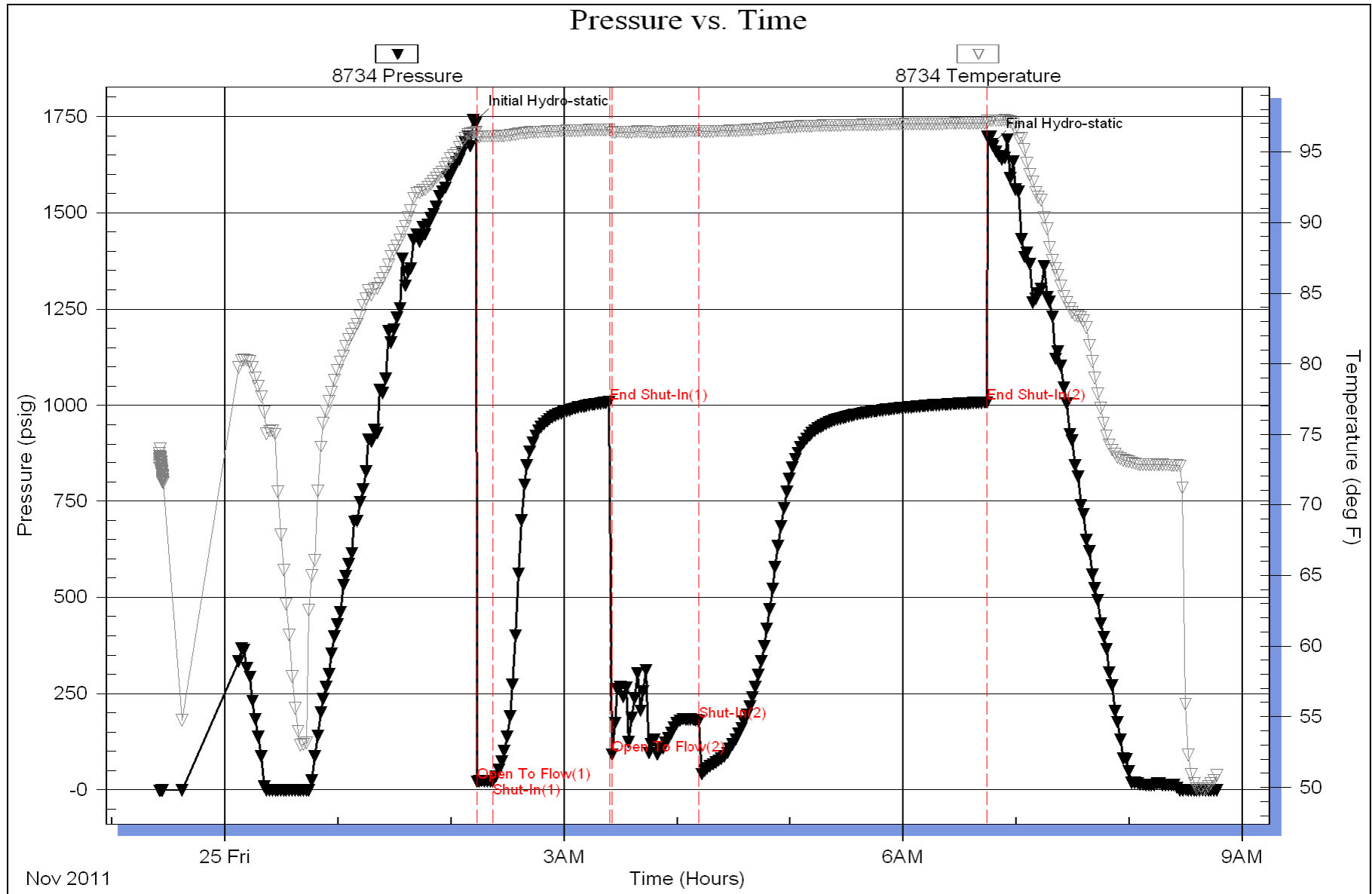
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Serial #:

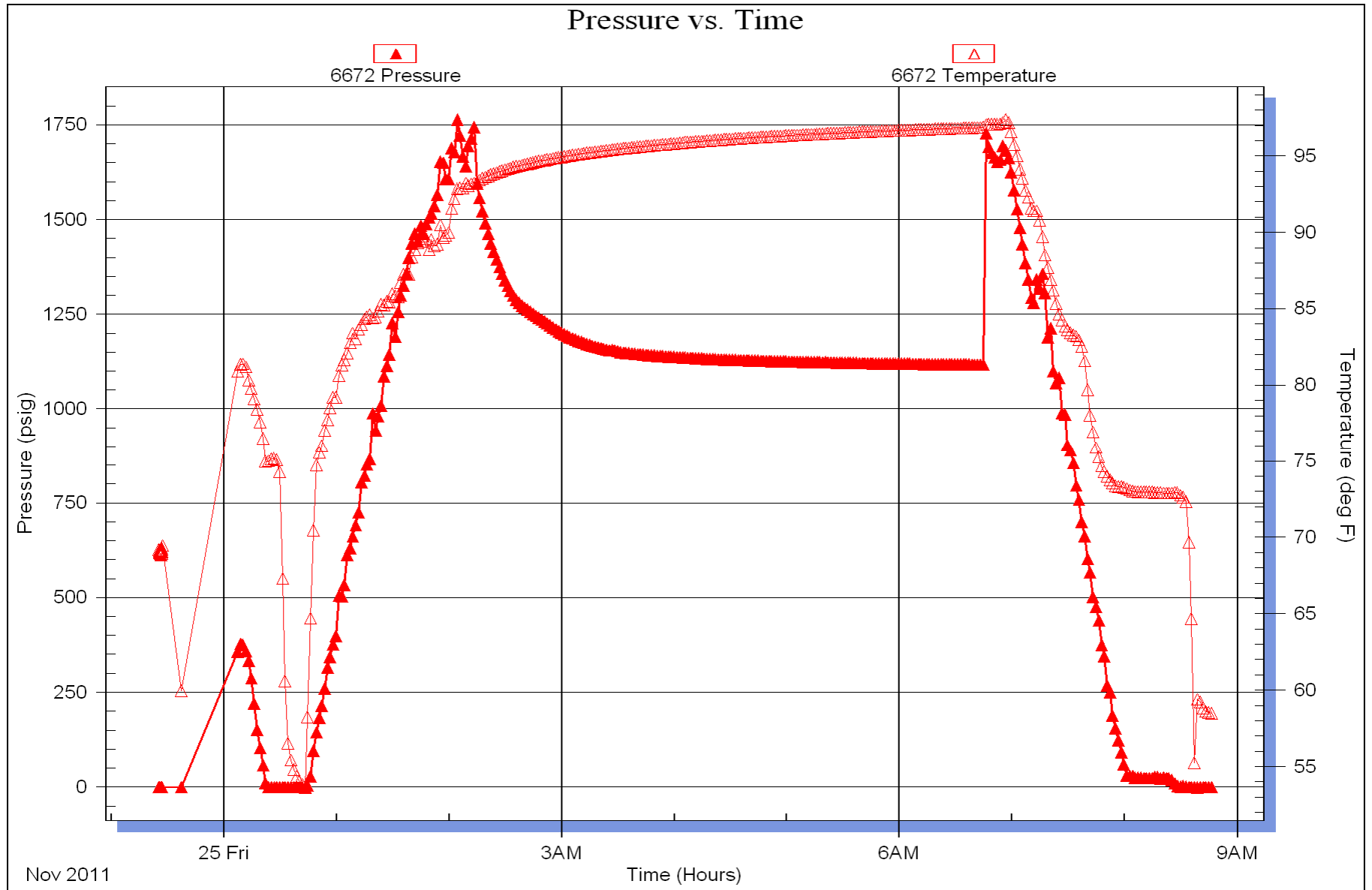
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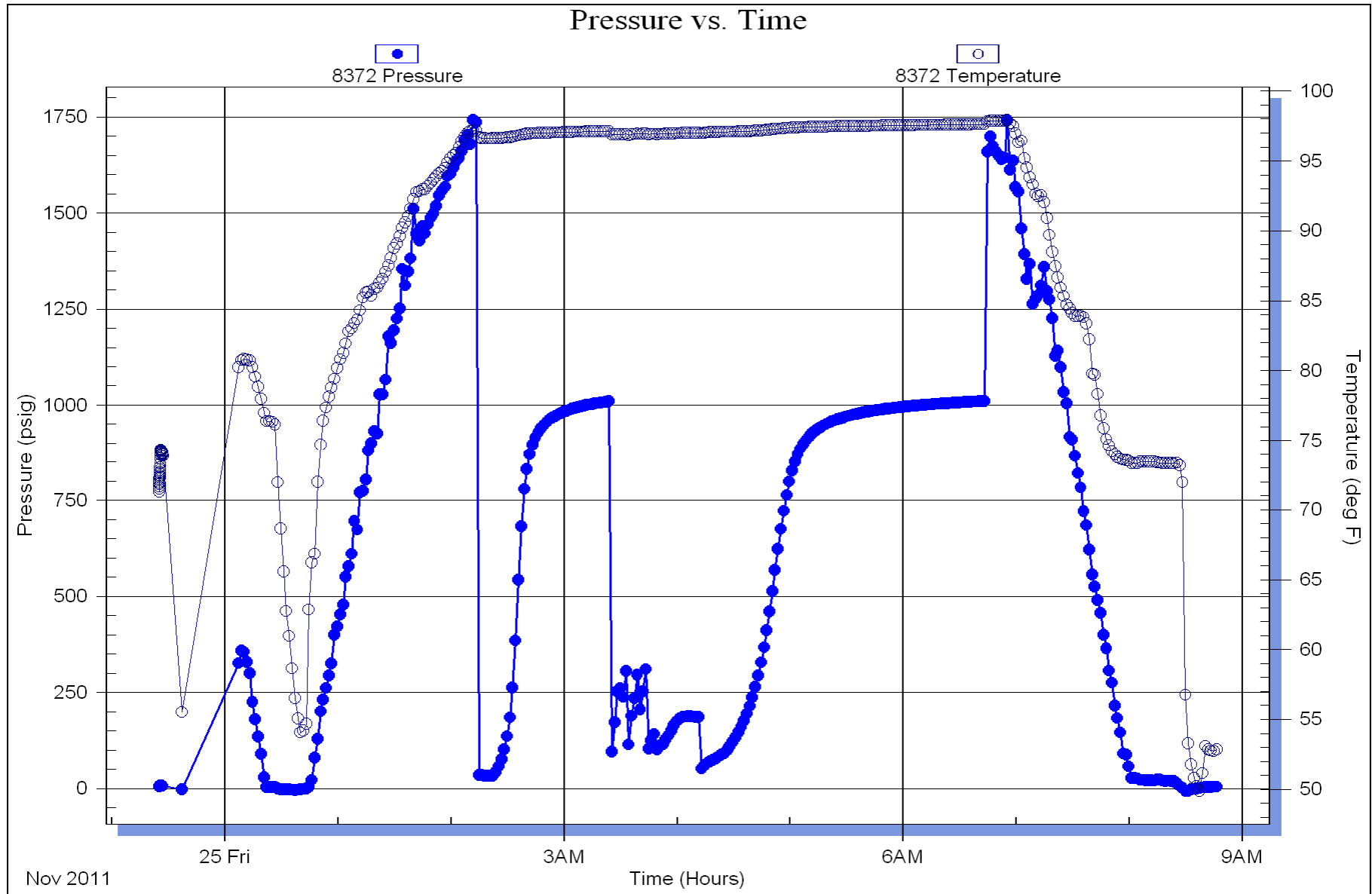
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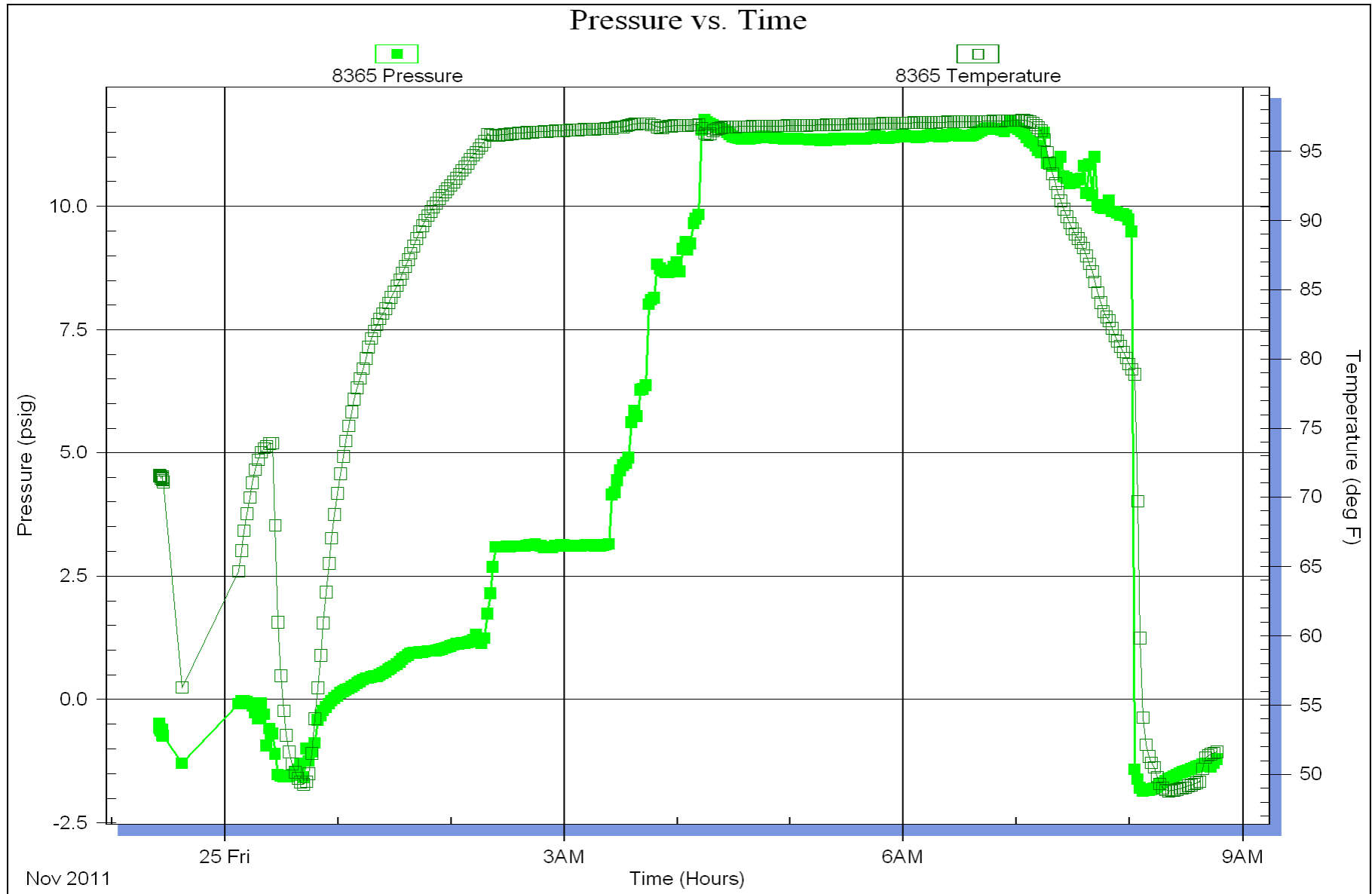
Recovery Comments:



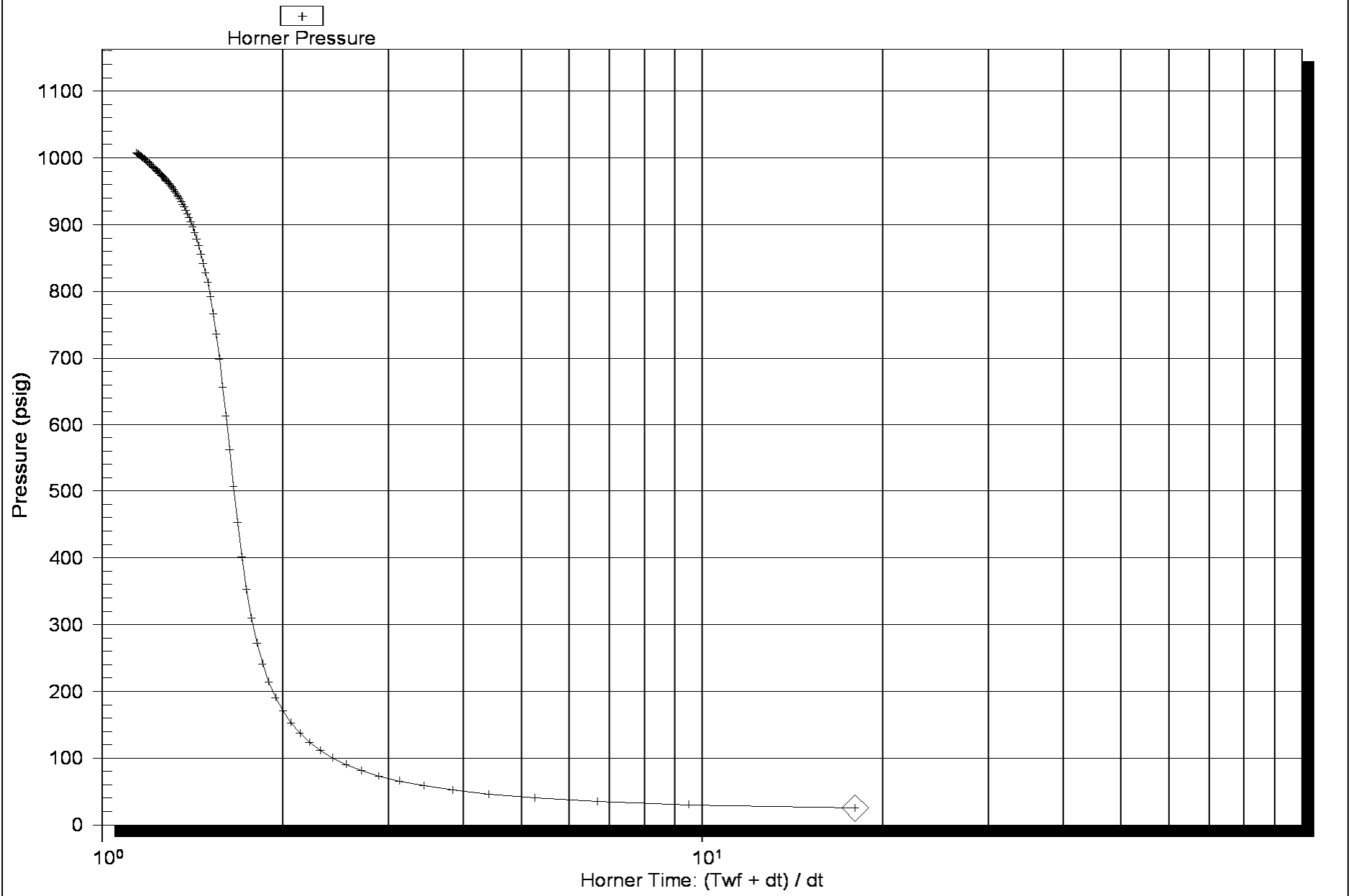








### Horner Plot



### Horner Plot

