



## DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

ATTN: Clayton Camozzi

**1/16s/16w Rush KS**

**Wagner Trust 6-1**

Start Date: 2011.07.05 @ 18:01:39

End Date: 2011.07.06 @ 01:32:39

Job Ticket #: 43505                      DST #: 4

Trilobite Testing, Inc  
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# DRILL STEM TEST REPORT

Sam Gary Jr & Associates

**Wagner Trust 6-1**

**1/16s/16w Rush KS**

Job Ticket: 43505

**DST#: 4**

ATTN: Clayton Camozzi

Test Start: 2011.07.05 @ 18:01:39

## GENERAL INFORMATION:

Formation: **Lansing IJK**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:44:29

Time Test Ended: 01:32:39

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 39

**Interval: 3336.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Reference Elevations: 1920.00 ft (KB)

Total Depth: 3216.00 ft (KB) (TVD)

1912.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8647 Outside**

Press @ Run Depth: 210.02 psig @ 3403.47 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.05 End Date: 2011.07.06

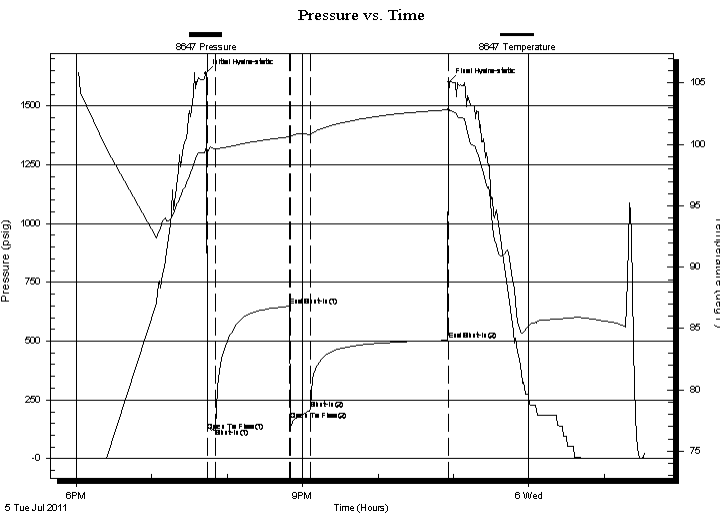
Last Calib.: 2011.07.06

Start Time: 18:01:44 End Time: 01:32:38

Time On Btm: 2011.07.05 @ 19:42:59

Time Off Btm: 2011.07.05 @ 22:56:09

**TEST COMMENT:** IF 5 Strong blow - bottom bucket in 30 seconds  
 ISI 60 strong blow bottom of bucket in 3 minutes  
 FF 16 strong blow bottom in 1 minute GTS in 20 min TSTM  
 FSI-110 strong blow bottom of bucket in 3 minu



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.91	99.53	Initial Hydro-static
2	117.53	99.12	Open To Flow (1)
8	127.88	99.65	Shut-In(1)
67	648.33	100.62	End Shut-In(1)
68	163.72	100.54	Open To Flow (2)
84	210.02	100.86	Shut-In(2)
193	502.80	102.83	End Shut-In(2)
194	1601.46	103.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	gassy oil 20% gas 80% oil	1.41
300.00	gassy W&MCO 10%g 80%o 5%w 5%m	4.21
60.00	mco 50%o 50%m	0.84

## Gas Rates

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





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**TOOL DIAGRAM**

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Test Start: 2011.07.05 @ 18:01:39

## Tool Information

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3336.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.47 ft			
Tool Length:	129.47 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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Blank Spacing	5.00			3305.00	
Shut In Tool	5.00			3310.00	
Sampler	3.00			3313.00	
Hydraulic tool	5.00			3318.00	
Jars	5.00			3323.00	
Safety Joint	3.00			3326.00	
Packer	5.00			3331.00	36.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Stubb	1.00			3337.00	
Perforations	2.00			3339.00	
Change Over Sub	0.60			3339.60	
Blank Spacing	31.00			3370.60	
Change Over Sub	1.00			3371.60	
Blank Spacing	31.27			3402.87	
Change Over Sub	0.60			3403.47	
Recorder	0.00	8017	Inside	3403.47	
Recorder	0.00	8647	Outside	3403.47	
Perforations	23.00			3426.47	
Bullnose	3.00			3429.47	93.47 Bottom Packers & Anchor

**Total Tool Length: 129.47**



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**FLUID SUMMARY**

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Job Ticket: 43505

**DST#: 4**

ATTN: Clayton Camozzi

Test Start: 2011.07.05 @ 18:01:39

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gassy oil 20% gas 80% oil	1.410
300.00	gassy W&MCO 10%g 80%o 5%w 5%m	4.208
60.00	mco 50%o 50%m	0.842

Total Length: 480.00 ft      Total Volume: 6.460 bbl

Num Fluid Samples: 0

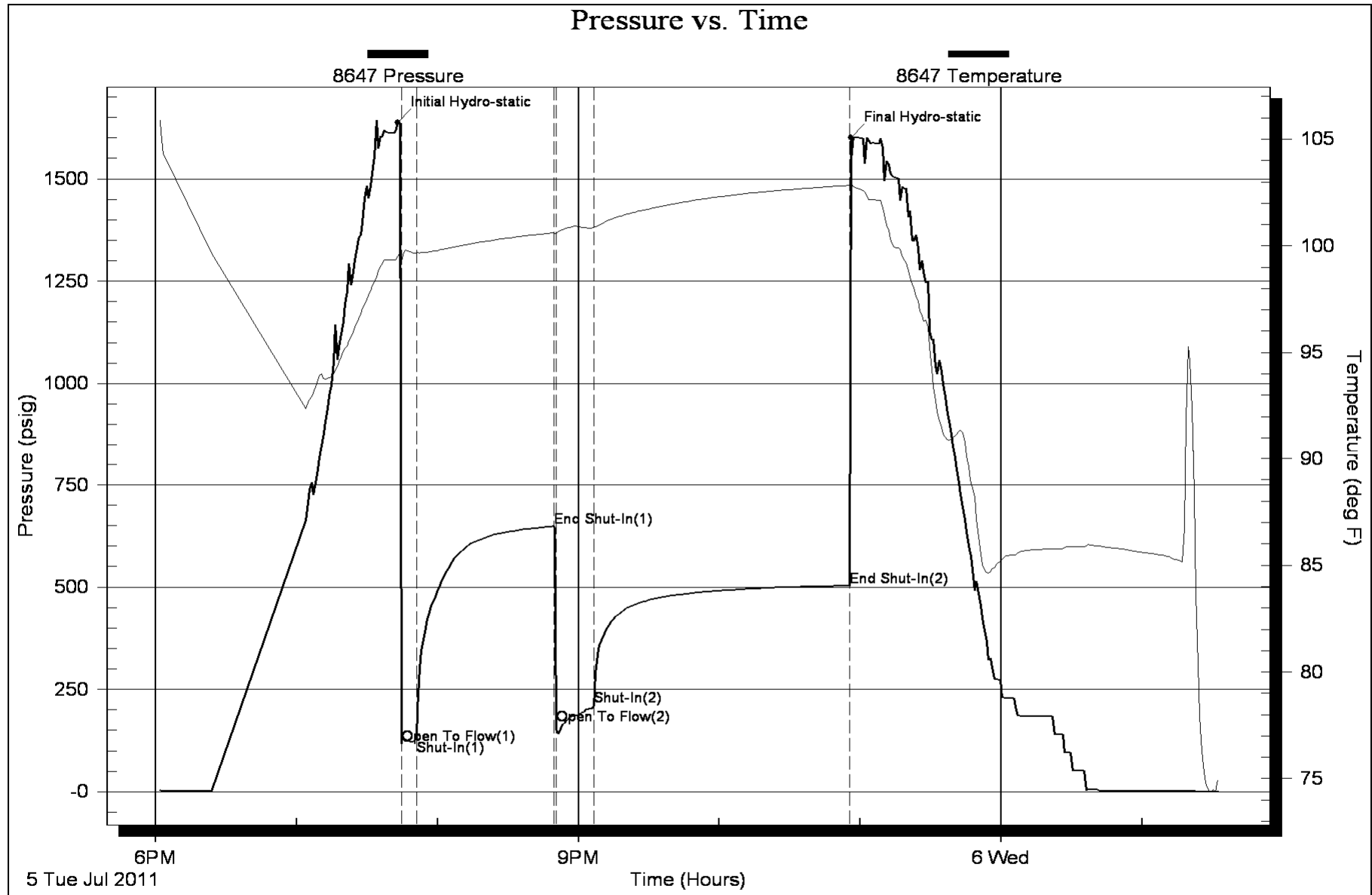
Num Gas Bombs: 0

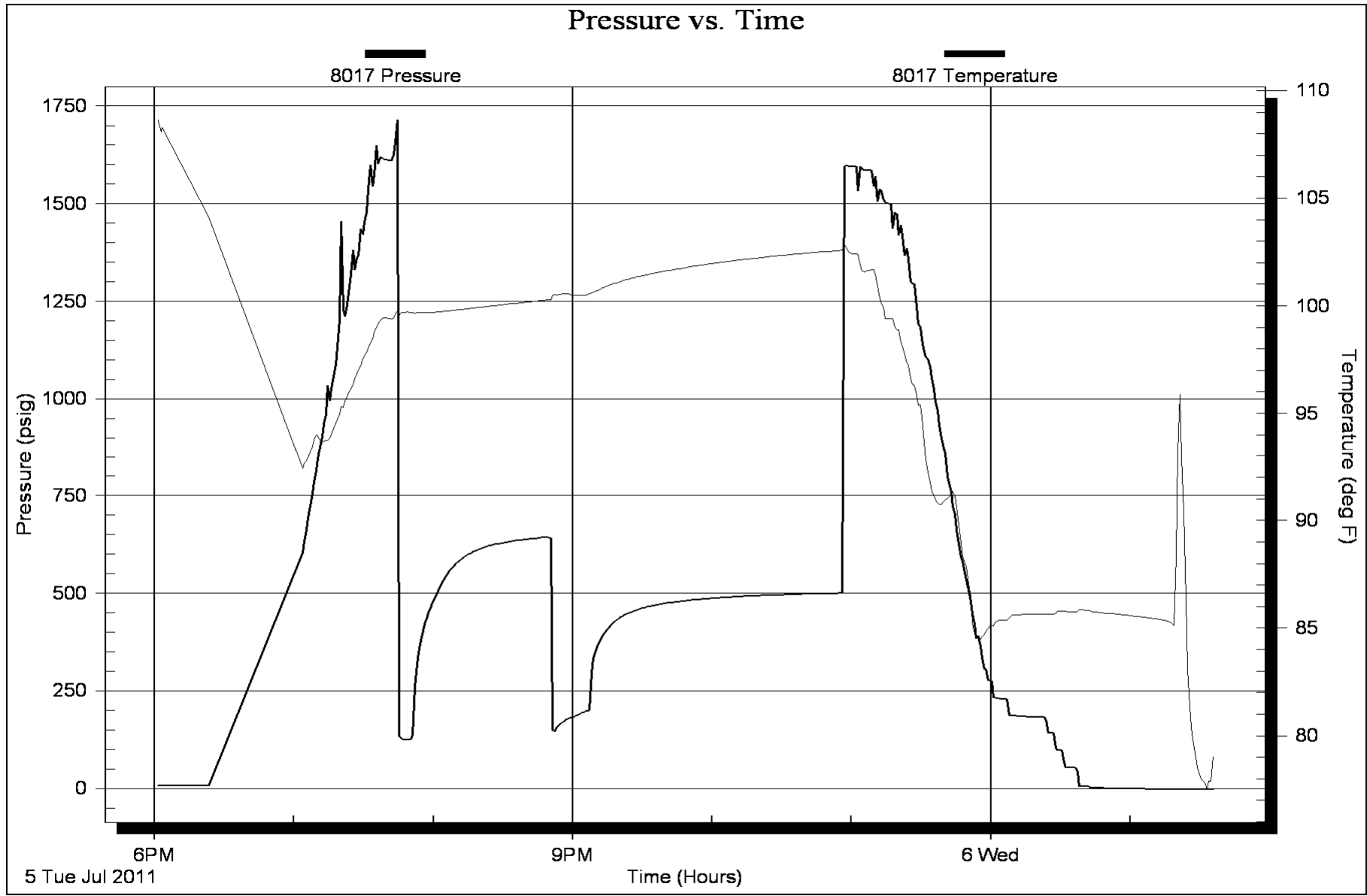
Serial #:

Laboratory Name:

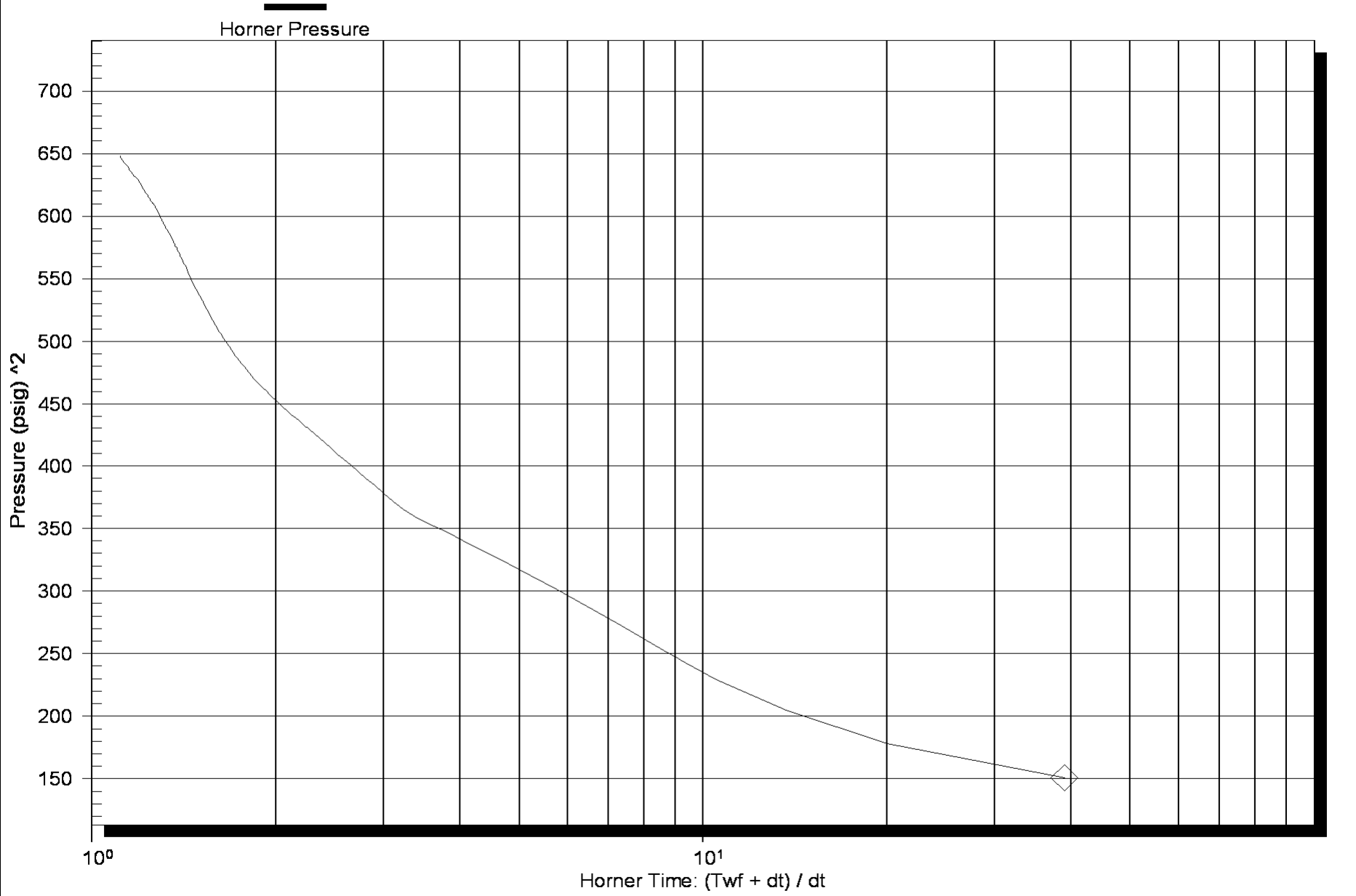
Laboratory Location:

Recovery Comments: Sampler data 3.5 cf gas 1800 ml oil 420#



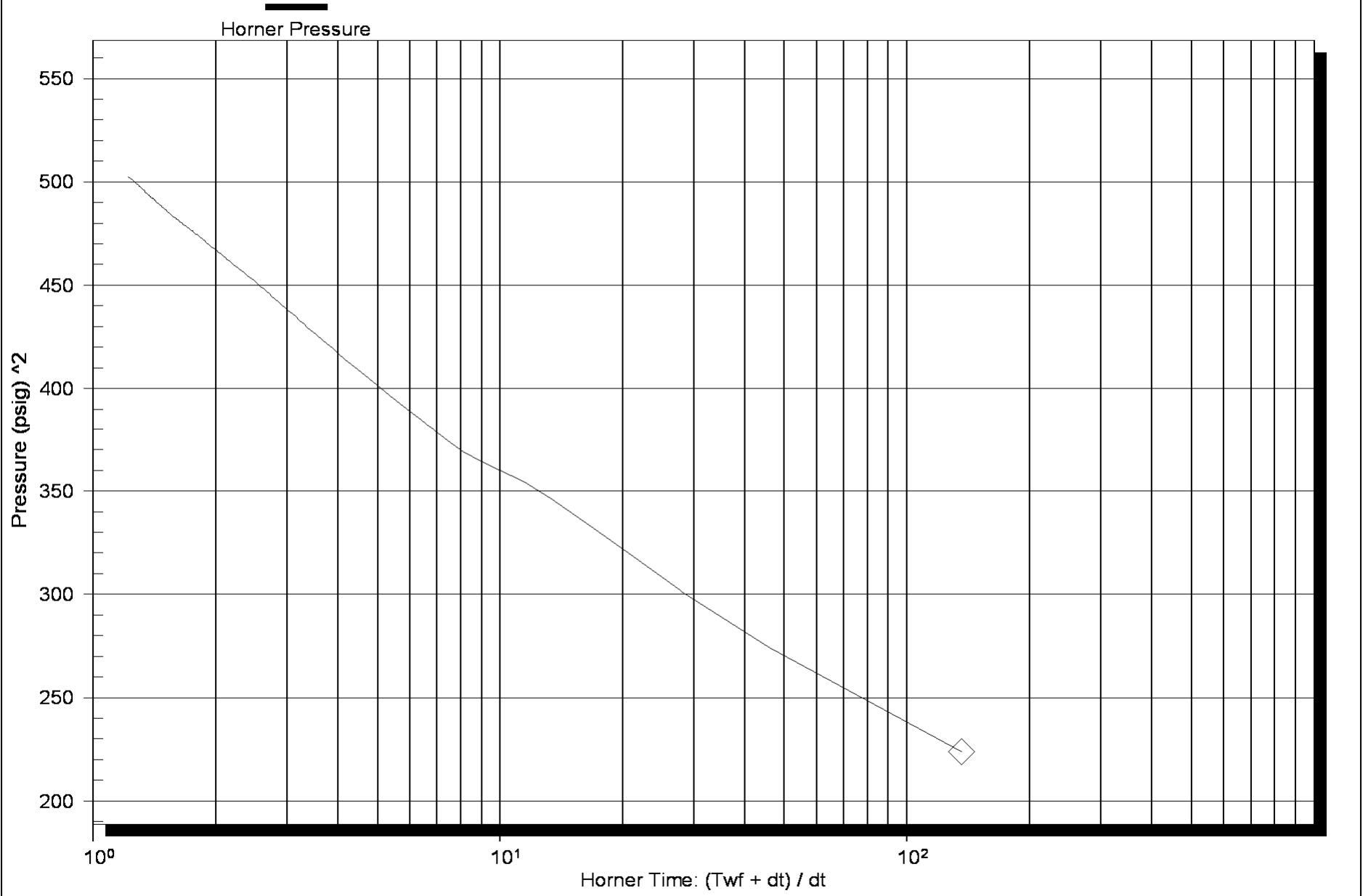


# Horner Plot

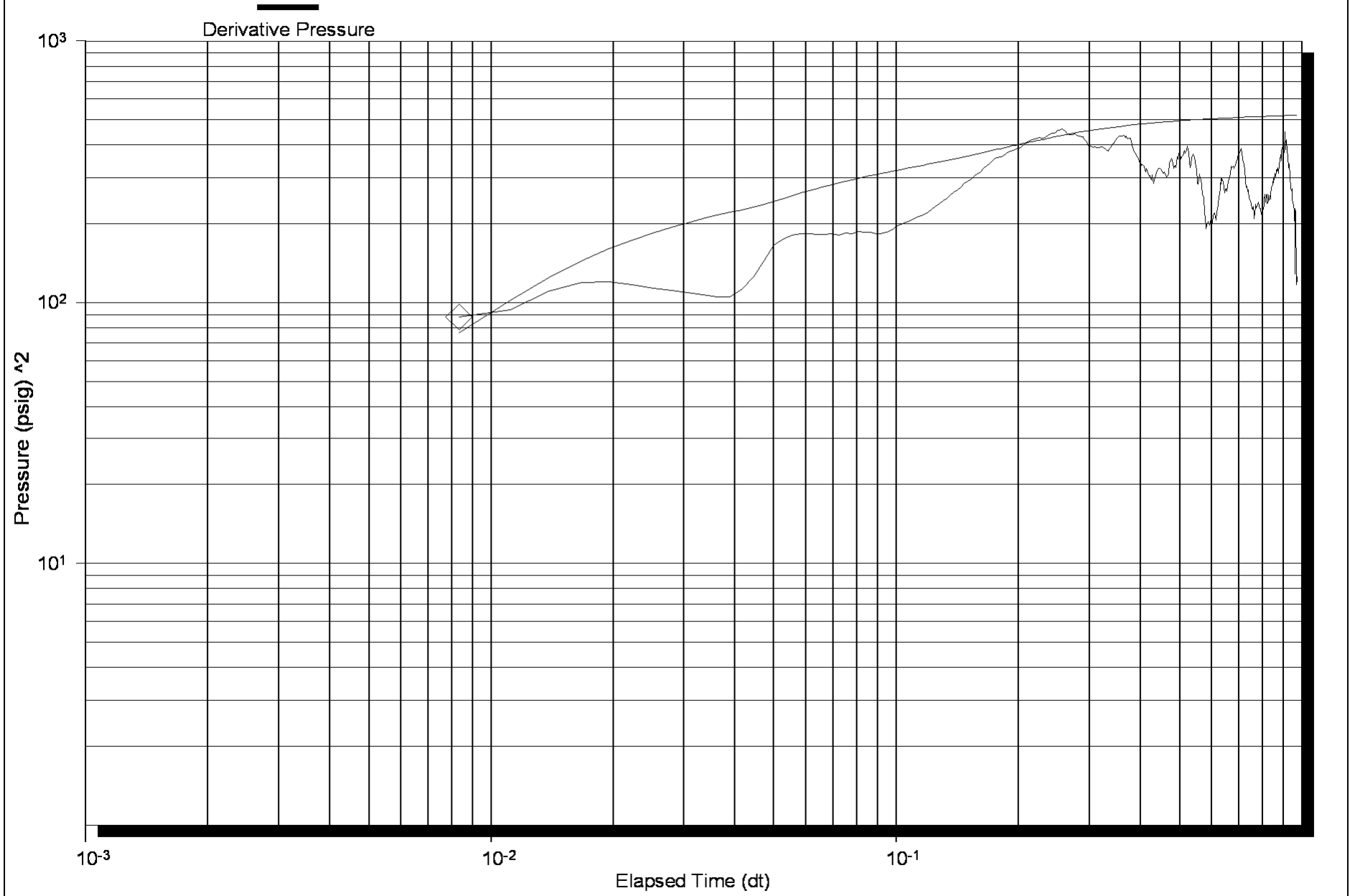




# Horner Plot



### Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative

