



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 @ 04:37:22

End Date: 2011.08.26 @ 12:32:52

Job Ticket #: 43567 DST #: 1

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

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TESTING, INC.**

DRILL STEM TEST REPORT

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Job Ticket: 43567

DST#: 1

Test Start: 2011.08.26 @ 04:37:22

GENERAL INFORMATION:

Formation: **A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:52

Time Test Ended: 12:32:52

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 3204.00 ft (KB) To 3255.00 ft (KB) (TVD)

Reference Elevations: 1959.00 ft (KB)

Total Depth: 3255.00 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: 77.00 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.26

End Date:

2011.08.26

Last Calib.:

2011.08.26

Start Time: 04:37:24

End Time:

12:32:52

Time On Btm:

2011.08.26 @ 06:27:22

Time Off Btm:

2011.08.26 @ 10:18:07

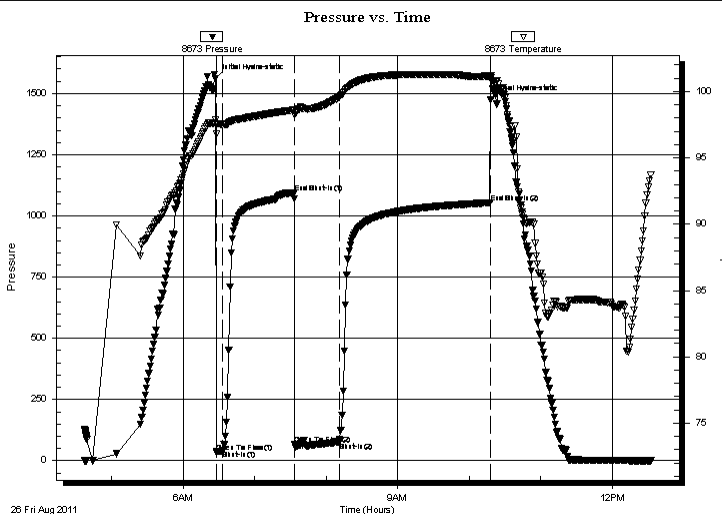
TEST COMMENT: IFP-Good Blow ,Built to 7"

ISI-Dead

FFP-Strong,BOB in 30 Seconds

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.30	97.84	Initial Hydro-static
1	33.00	96.79	Open To Flow (1)
6	40.96	97.52	Shut-In(1)
66	1094.70	98.60	End Shut-In(1)
67	67.79	98.22	Open To Flow (2)
104	77.00	99.59	Shut-In(2)
231	1053.78	101.17	End Shut-In(2)
231	1473.80	101.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Gassy Oil Cut Mud-30%G-25%O-45%M	1.75
0.00	480' Gas In Pipe	0.00

Gas Rates

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



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TOOL DIAGRAM

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DST#: 1

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Tool Information

Drill Pipe:	Length: 3187.00 ft	Diameter: 3.80 inches	Volume: 44.71 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: 44.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3204.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3170.00	
Recorder	0.00	6755	Fluid	3170.00	
Change Over Sub	4.00			3174.00	
Shut In Tool	5.00			3179.00	
Sampler	3.00			3182.00	
Hydraulic tool	5.00			3187.00	
Jars	5.00			3192.00	
Safety Joint	2.00			3194.00	
Packer	5.00			3199.00	35.00 Bottom Of Top Packer
Packer	5.00			3204.00	
Stubb	1.00			3205.00	
Perforations	1.00			3206.00	
Change Over Sub	1.00			3207.00	
Blank Spacing	31.00			3238.00	
Change Over Sub	1.00			3239.00	
Recorder	0.00	8673	Inside	3239.00	
Recorder	0.00	6668	Outside	3239.00	
Perforations	13.00			3252.00	
Bullnose	3.00			3255.00	51.00 Bottom Packers & Anchor

Total Tool Length: 86.00



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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: 57.00 sec/qt
Water Loss: 6.39 cm³
Resistivity: ohm.m
Salinity: 3100.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 37 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Gassy Oil Cut Mud-30%G-25%O-45%M	1.753
0.00	480' Gas In Pipe	0.000

Total Length: 125.00 ft Total Volume: 1.753 bbl

Num Fluid Samples: 0

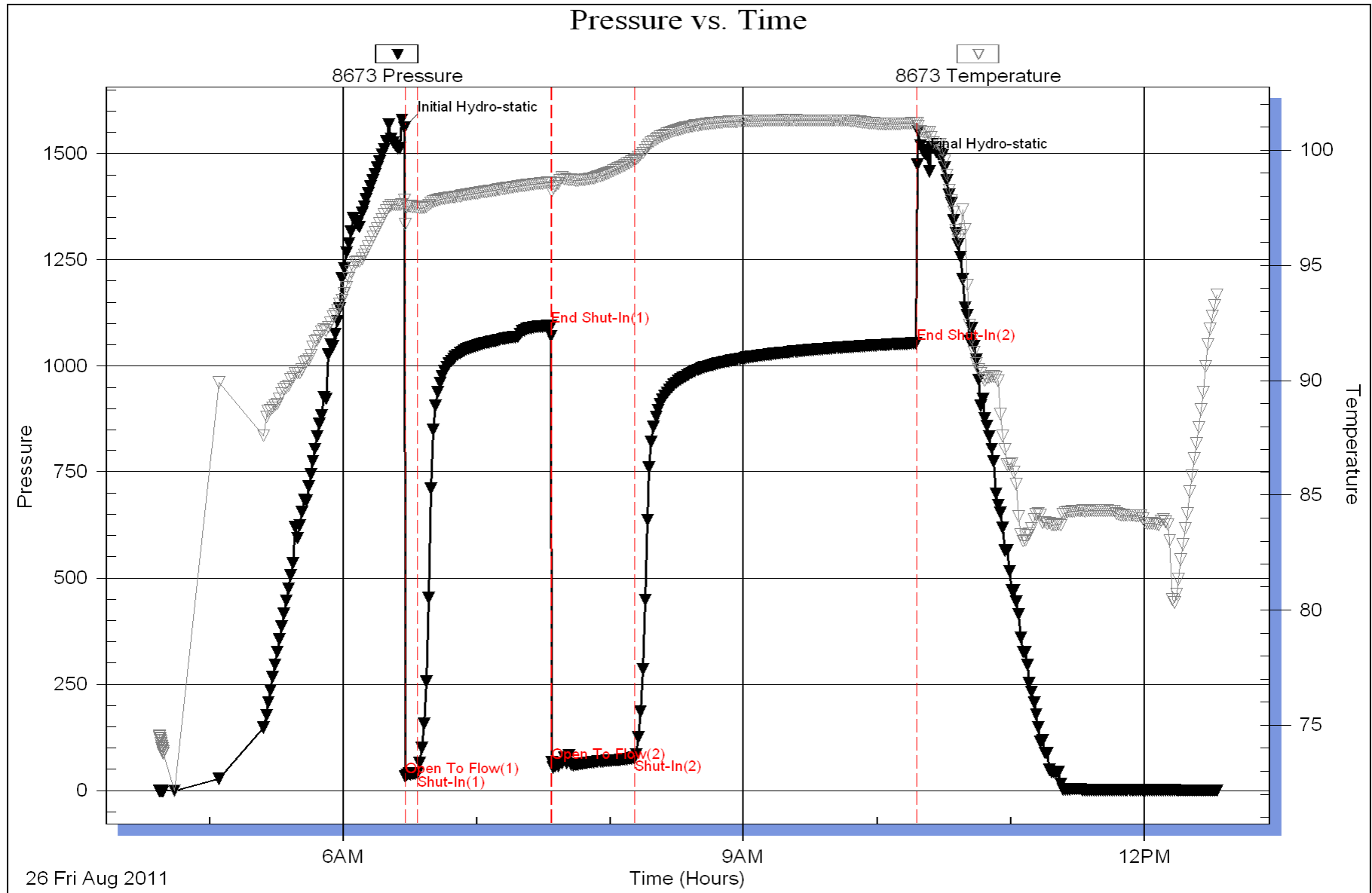
Num Gas Bombs: 0

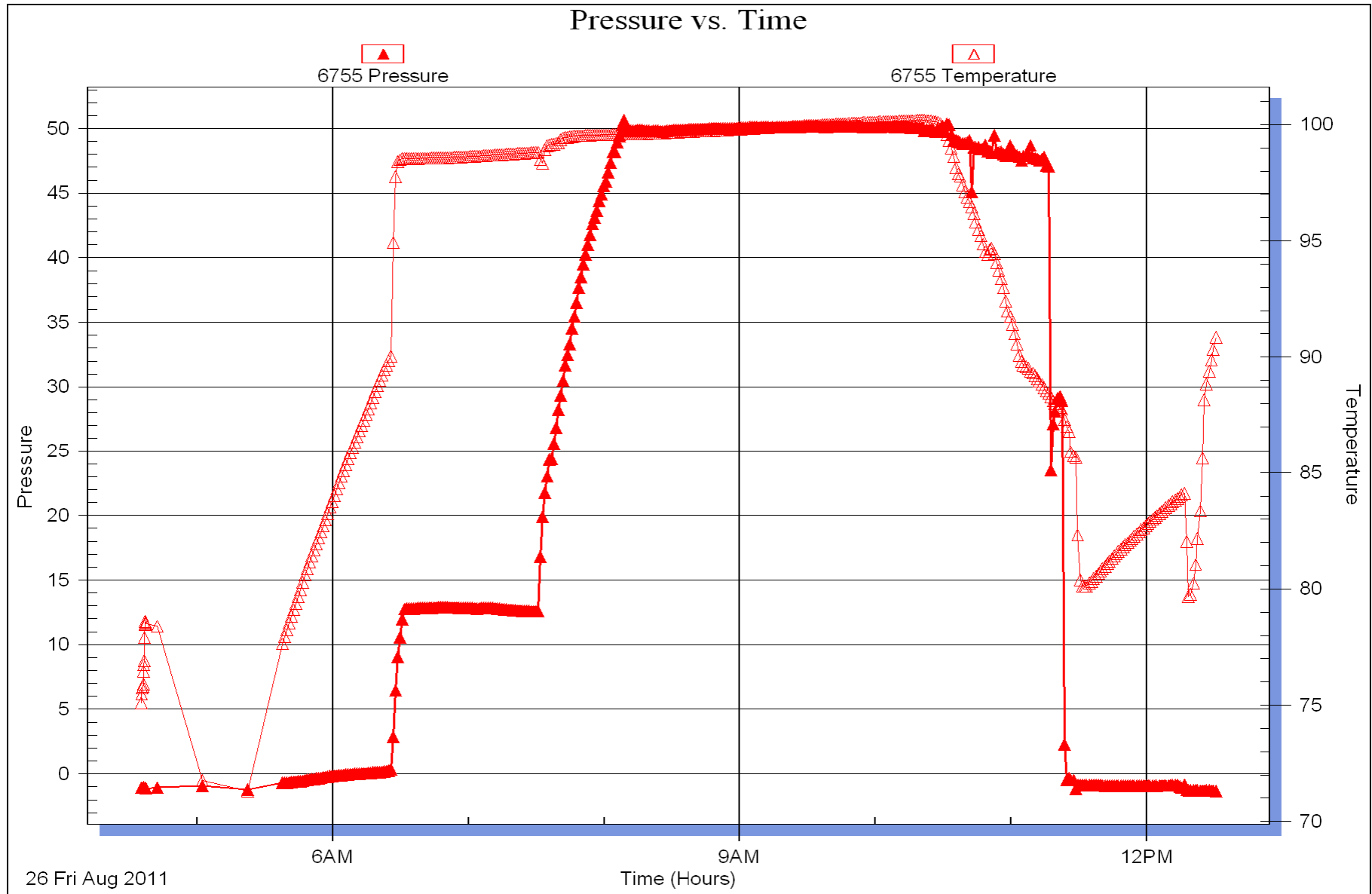
Serial #:

Laboratory Name:

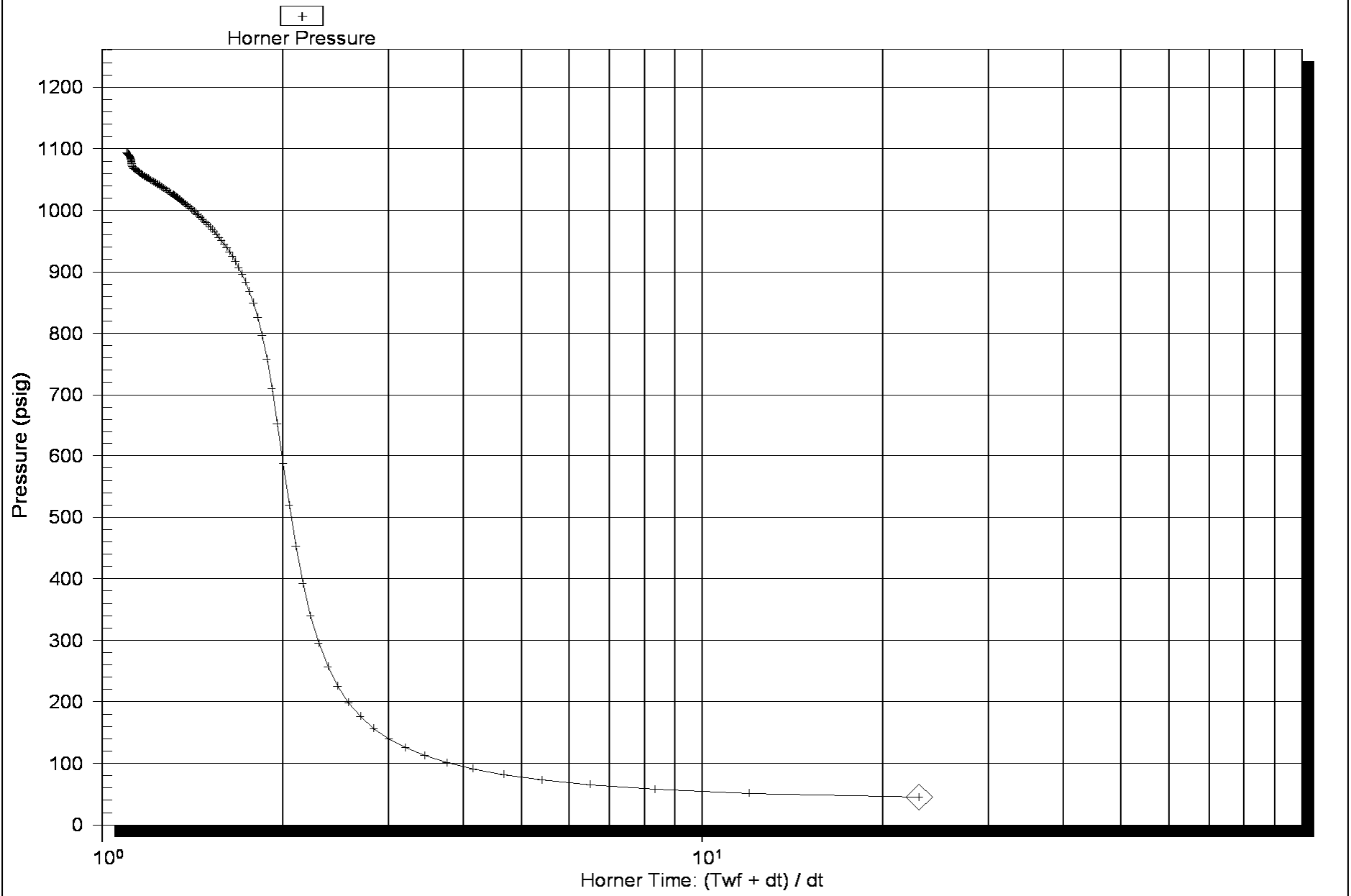
Laboratory Location:

Recovery Comments: Sampler: 275#,3000ml Muddy Gassy Oil-30%G69%O-1%M

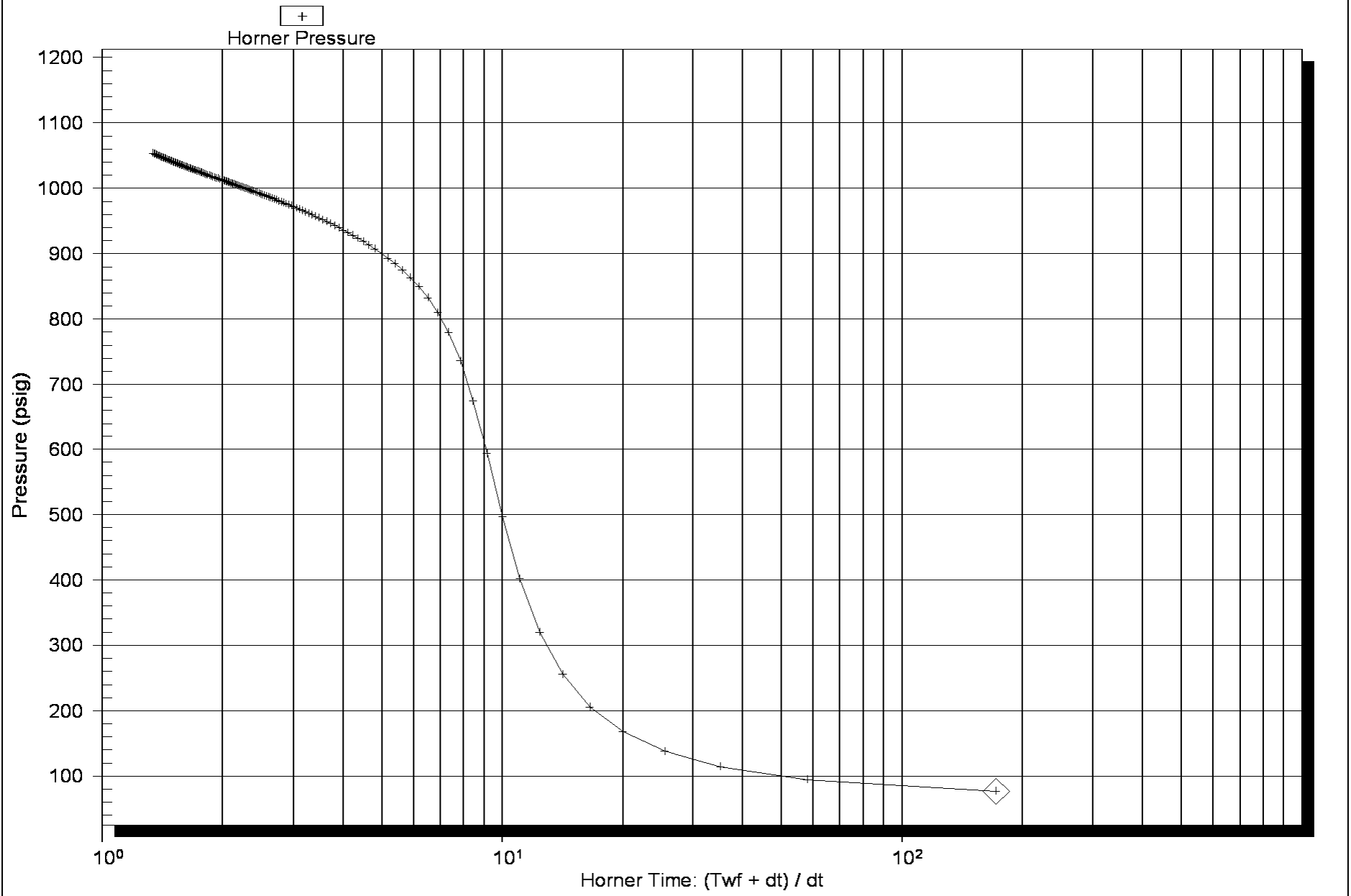




Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative

