



DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & Ass. INC,**

1515 Wynkoop St. Suite 700
Denver CO, 80202

ATTN: Clayton Camozzi

Bogleigh Wallah 2-4

4-16s-16w Rush

Start Date: 2011.10.05 @ 00:20:14

End Date: 2011.10.05 @ 08:40:44

Job Ticket #: 44624 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. & Ass. INC,
 1515 Wynkoop St. Suite 700
 Denver CO, 80202
 ATTN: Clayton Camozzi

4-16s-16w Rush
Bogleigh Wallah 2-4
 Job Ticket: 44624 **DST#: 5**
 Test Start: 2011.10.05 @ 00:20:14

GENERAL INFORMATION:

Formation: **Arb**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:30:14
 Time Test Ended: 08:40:44
Interval: 3363.00 ft (KB) To 3444.00 ft (KB) (TVD)
 Total Depth: 3444.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 47
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

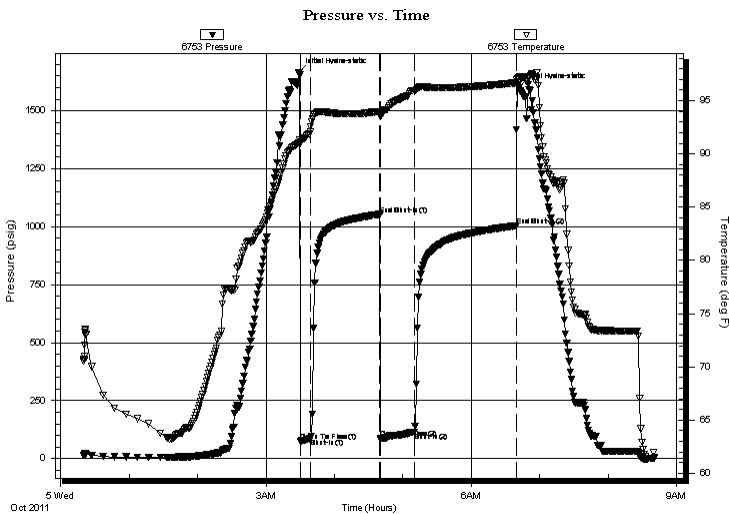
Serial #: 6753

Inside

Press@RunDepth: 112.87 psig @ 3430.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.10.05 End Date: 2011.10.05 Last Calib.: 2011.10.06
 Start Time: 00:20:19 End Time: 08:40:43 Time On Btm: 2011.10.05 @ 03:28:44
 Time Off Btm: 2011.10.05 @ 06:41:44

TEST COMMENT: 10min IF-5.5in blow
 60min ISI-No blow
 30min FF-BOB in 20min
 90min FSI-1.5min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.44	91.03	Initial Hydro-static
2	73.16	90.96	Open To Flow (1)
11	89.07	92.59	Shut-In(1)
71	1053.22	93.96	End Shut-In(1)
72	88.13	93.60	Open To Flow (2)
101	112.87	95.94	Shut-In(2)
191	1004.00	96.68	End Shut-In(2)
193	1598.44	97.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	SOCM 15%O 85%M	1.26
45.00	GO 15%G 85%O	0.63
0.00	120ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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TOOL DIAGRAM

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4-16s-16w Rush
Bogleigh Wallah 2-4
Job Ticket: 44624 **DST#: 5**
Test Start: 2011.10.05 @ 00:20:14

Tool Information

Drill Pipe:	Length: 3312.00 ft	Diameter: 3.80 inches	Volume: 46.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3363.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	114.00 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			3329.00	
Recorder	0.00	8319	Inside	3329.00	
Blank Spacing	5.00			3334.00	
Shut In Tool	5.00			3339.00	
Sampler	2.00			3341.00	
Hydraulic tool	5.00			3346.00	
Jars	5.00			3351.00	
Safety Joint	2.00			3353.00	
Packer	5.00			3358.00	35.00 Bottom Of Top Packer
Packer	5.00			3363.00	
Stubb	1.00			3364.00	
Perforations	2.00			3366.00	
Change Over Sub	1.00			3367.00	
Perforations	62.00			3429.00	
Change Over Sub	1.00			3430.00	
Recorder	0.00	6753	Inside	3430.00	
Recorder	0.00	8369	Outside	3430.00	
Perforations	9.00			3439.00	
Bullnose	3.00			3442.00	79.00 Bottom Packers & Anchor

Total Tool Length: 114.00



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FLUID SUMMARY

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Job Ticket: 44624

DST#: 5

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Test Start: 2011.10.05 @ 00:20:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	SOCM 15%O 85%M	1.261
45.00	GO 15%G 85%O	0.631
0.00	120ft GIP	0.000

Total Length: 155.00 ft Total Volume: 1.892 bbl

Num Fluid Samples: 0

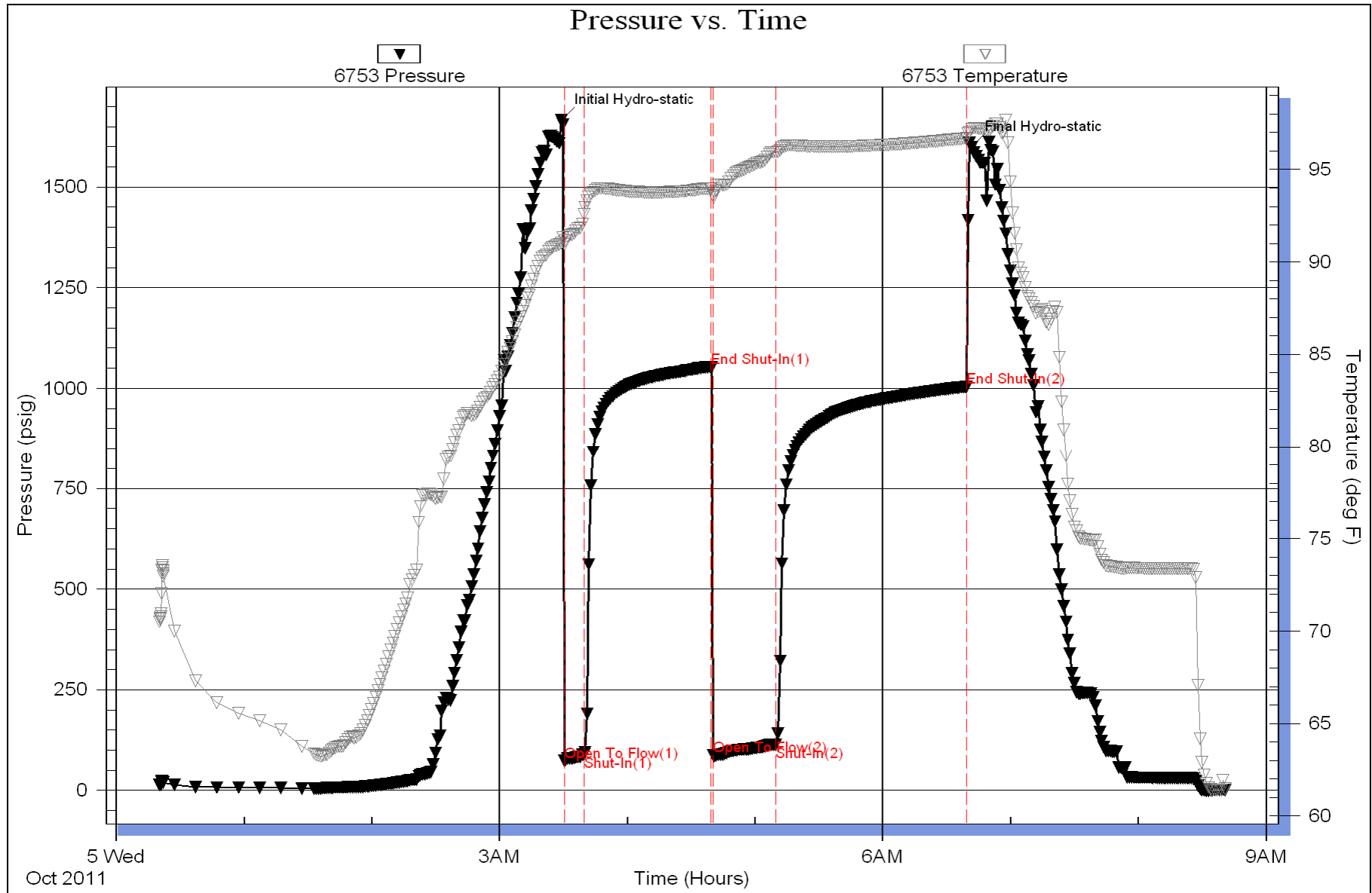
Num Gas Bombs: 0

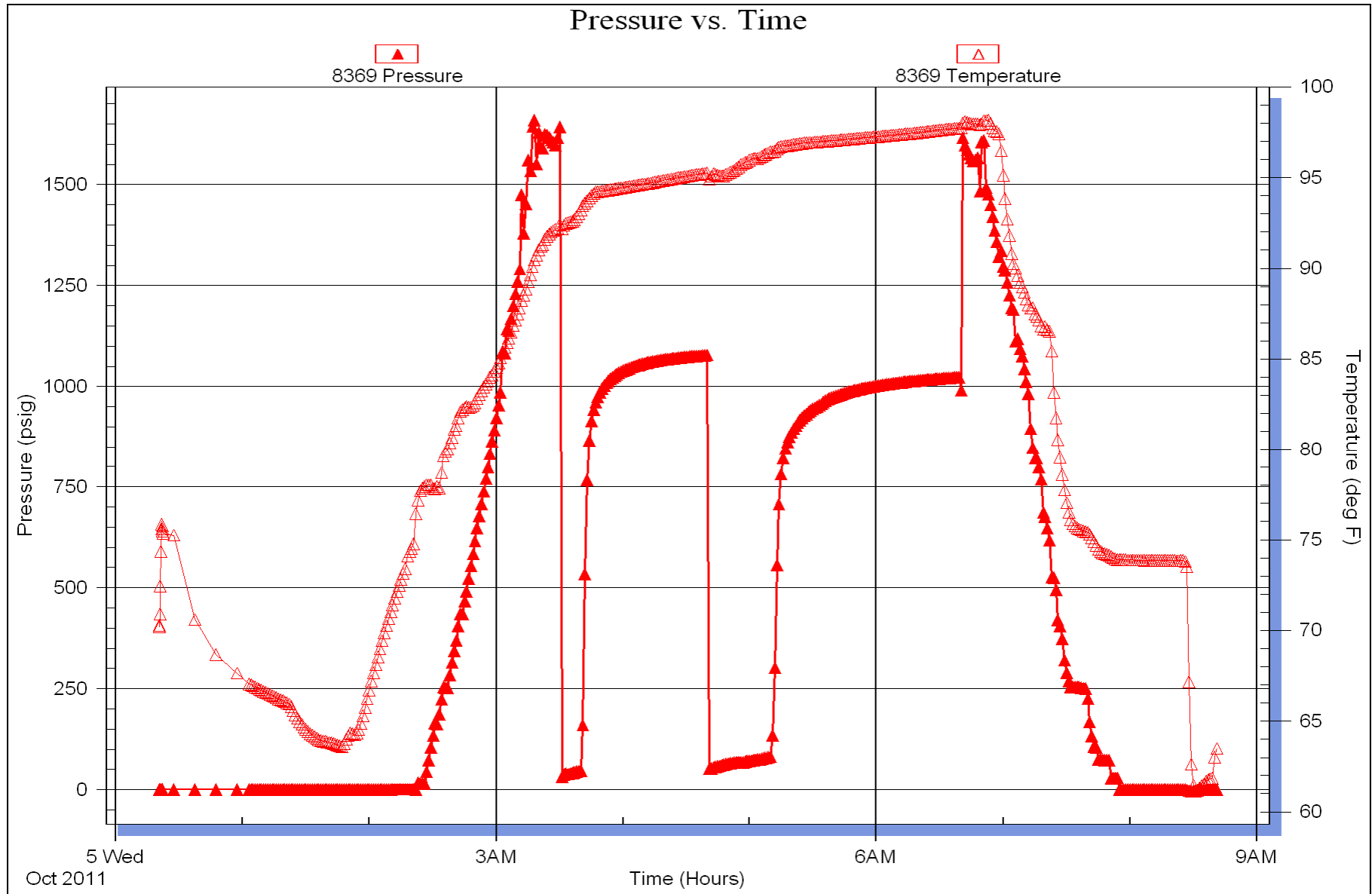
Serial #:

Laboratory Name:

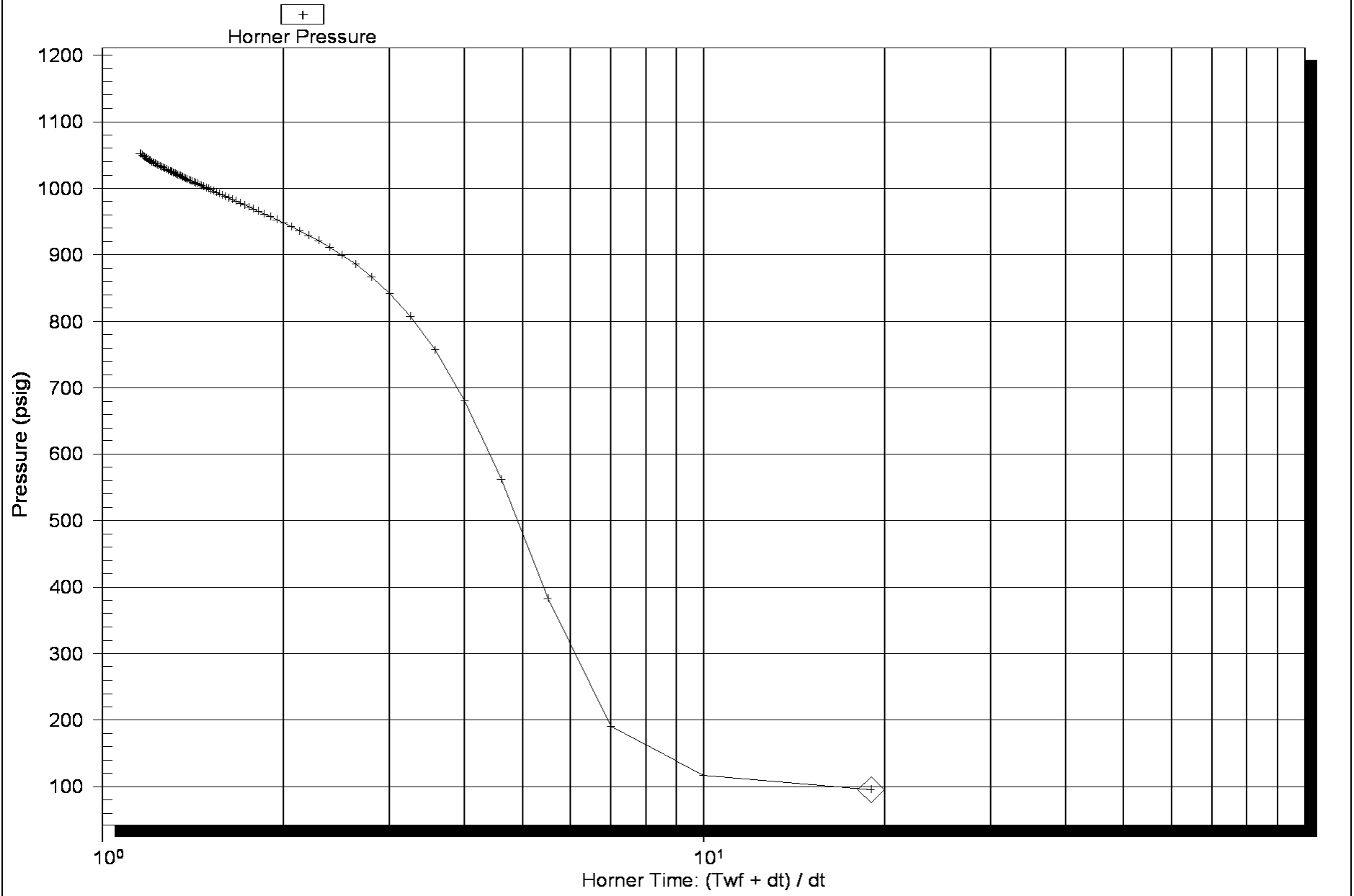
Laboratory Location:

Recovery Comments: Sampler Data





Horner Plot



Horner Plot

