



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary & Associates, INC**

1515 Wynkoop ste 700  
Denver Co 80202

ATTN: Clayton Camozzi

**36-15s-16w Ellis**

**Boxberger 3-36**

Start Date: 2011.02.28 @ 21:07:16

End Date: 2011.03.01 @ 04:16:16

Job Ticket #: 042853                      DST #: 3

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



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TESTING, INC**

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Test Start: 2011.02.28 @ 21:07:16

## GENERAL INFORMATION:

Formation: **LKC-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:05:16

Time Test Ended: 04:16:16

Test Type: Conventional Straddle

Tester: Jeff Brown

Unit No: 44

**Interval: 3218.00 ft (KB) To 3268.00 ft (KB) (TVD)**

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3340.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6672 Outside**

Press @ Run Depth: 237.68 psig @ 3221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.28

End Date: 2011.03.01

Last Calib.: 2011.03.01

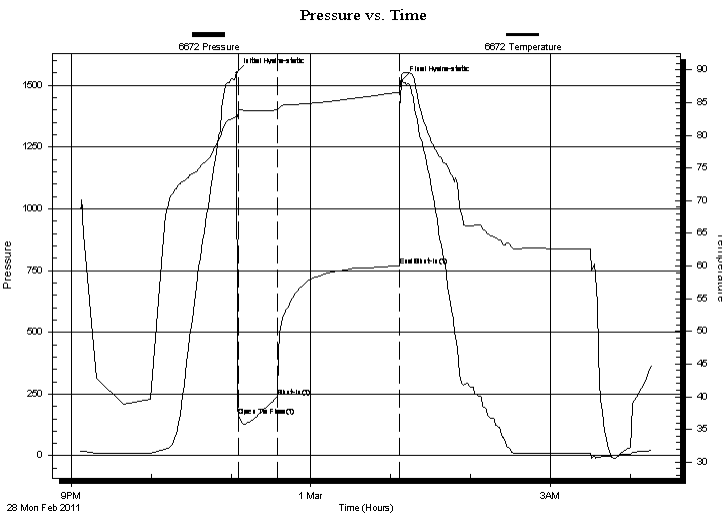
Start Time: 21:07:17

End Time: 04:16:16

Time On Btm: 2011.02.28 @ 23:04:16

Time Off Btm: 2011.03.01 @ 01:08:16

**TEST COMMENT:** IFP-30 min-Strong blow BOB in 1 min Gas to surface in 15 Min  
ISI-90 min Strong blow back BOB in 30 sec Gas to surface



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.79	82.93	Initial Hydro-static
1	161.58	83.55	Open To Flow (1)
31	237.68	83.90	Shut-In(1)
122	769.03	86.58	End Shut-In(1)
124	1518.82	89.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
146.00	MCGWO 8%M35%G2%W55%O	1.77
252.00	HOCGM 10%M55%G35%O	3.53
189.00	MCGO 10%M40%G50%O	2.65
0.00	2613GIP	0.00

## Gas Rates

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







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**TOOL DIAGRAM**

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ATTN: Clayton Camozzi

Test Start: 2011.02.28 @ 21:07:16

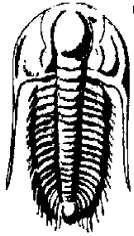
## Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 2200.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 44.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3218.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3268.00 ft			
Interval between Packers:	50.00 ft			
Tool Length:	157.00 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			3184.00	
Stubb	5.00			3189.00	
Shut In Tool	5.00			3194.00	
Sampler	2.00			3196.00	
Hydraulic tool	5.00			3201.00	
Jars	5.00			3206.00	
Safety Joint	3.00			3209.00	
Packer	4.00			3213.00	35.00 Bottom Of Top Packer
Packer	5.00			3218.00	
Stubb	1.00			3219.00	
Perforations	2.00			3221.00	
Recorder	0.00	8321	Inside	3221.00	
Recorder	0.00	6672	Outside	3221.00	
Change Over Sub	1.00			3222.00	
Drill Pipe	31.00			3253.00	
Change Over Sub	1.00			3254.00	
Perforations	10.00			3264.00	
Blank Off Sub	1.00			3265.00	
Stubb	3.00			3268.00	50.00 Tool Interval
Packer	1.00			3269.00	
Stubb	1.00			3270.00	
Recorder	0.00	8679	Below	3270.00	
Change Over Sub	1.00			3271.00	
Drill Pipe	63.00			3334.00	
Change Over Sub	1.00			3335.00	
Perforations	2.00			3337.00	



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**FLUID SUMMARY**

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**DST#: 3**

ATTN: Clayton Camozzi

Test Start: 2011.02.28 @ 21:07:16

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 46.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6100.00 ppm  
Filter Cake: inches

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

Oil API: 42 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
146.00	MCGWO 8%M35%G2%W55%O	1.766
252.00	HOCGM 10%M55%G35%O	3.535
189.00	MCGO 10%M40%G50%O	2.651
0.00	2613GIP	0.000

Total Length: 587.00 ft      Total Volume: 7.952 bbl

Num Fluid Samples: 0

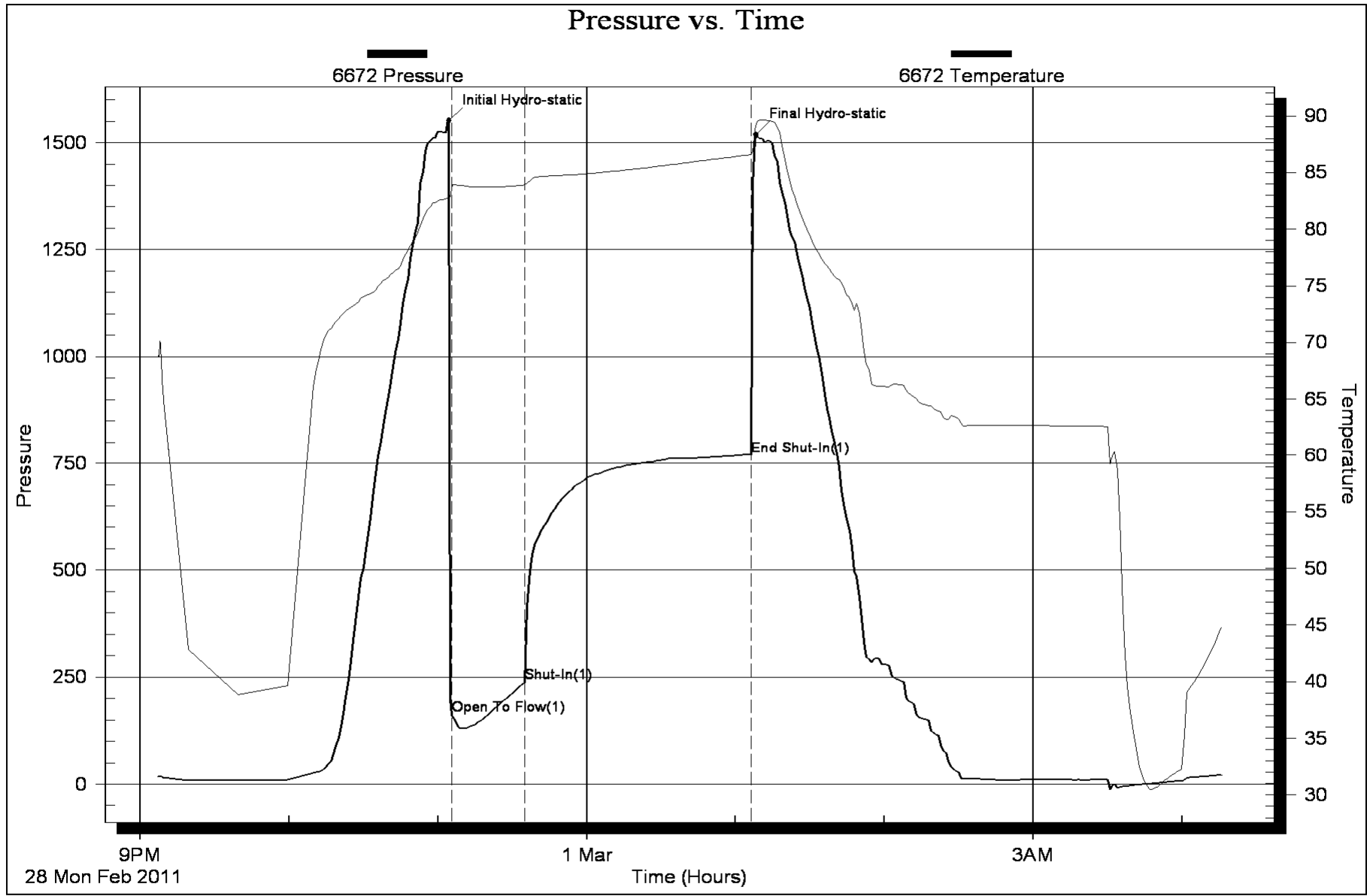
Num Gas Bombs: 0

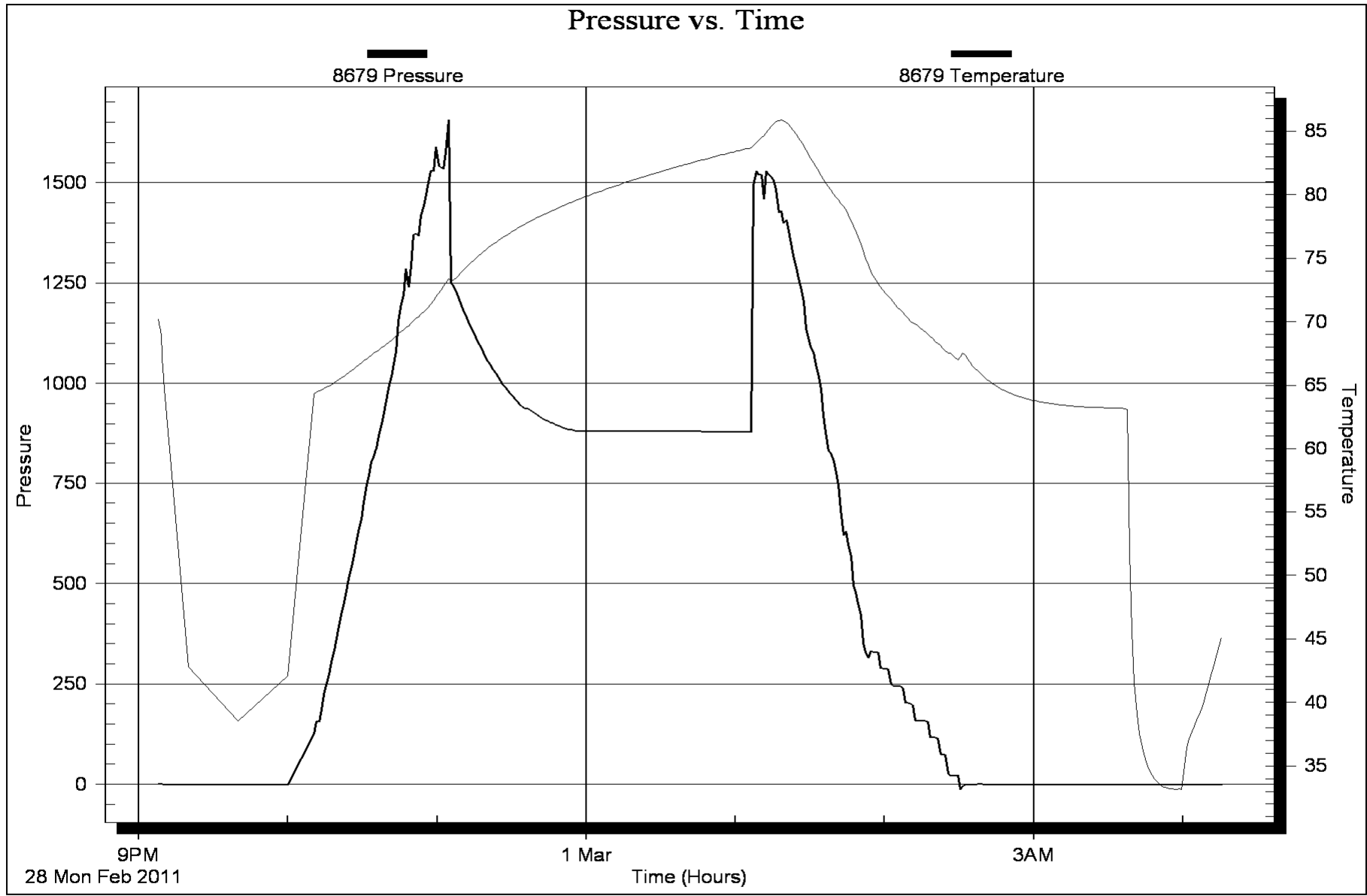
Serial #:

Laboratory Name:

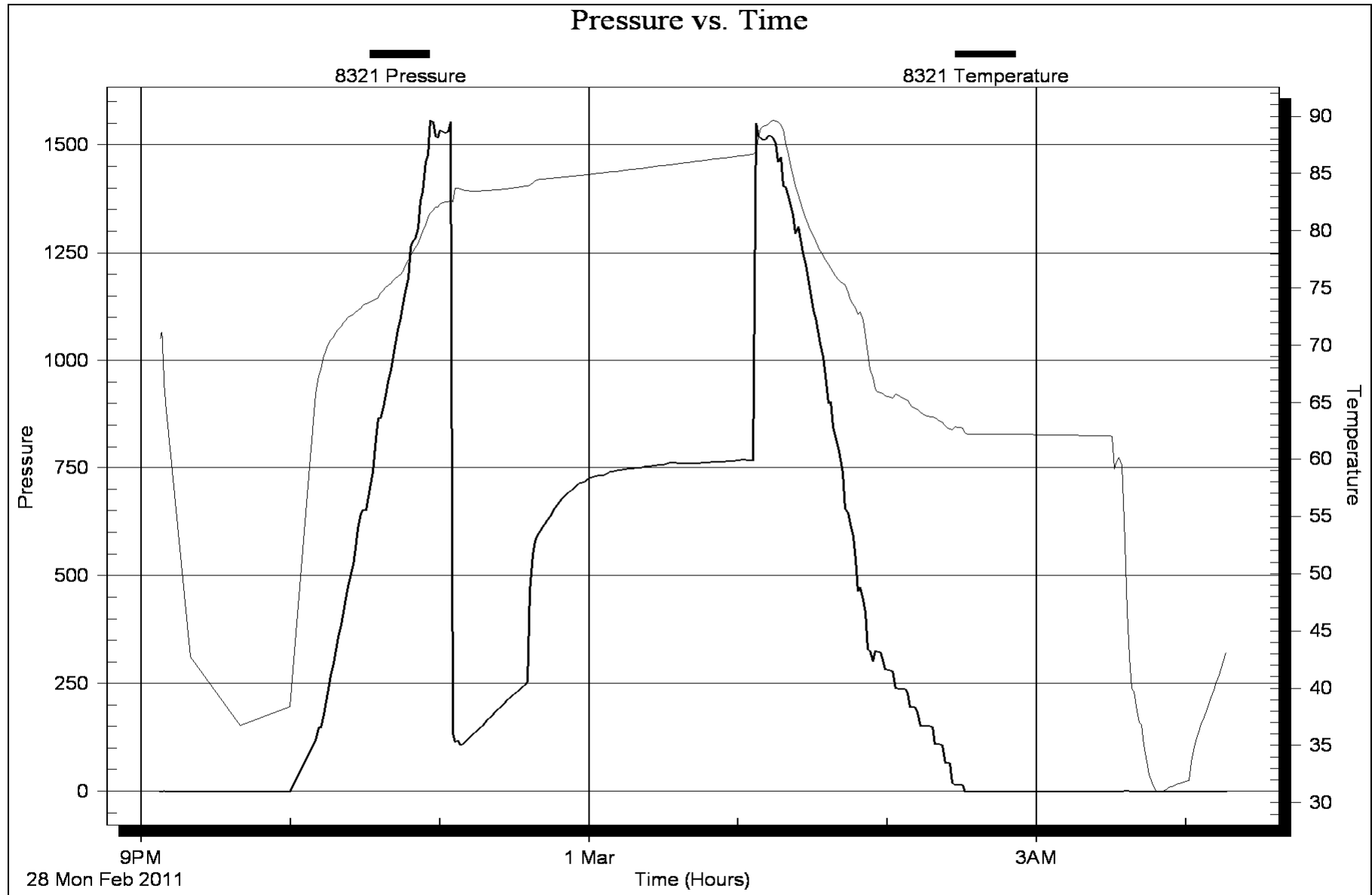
Laboratory Location:

Recovery Comments: Samper-1100 ML total fluid-650 PSI 3 1/2 QF of gas 1100 ML of oil

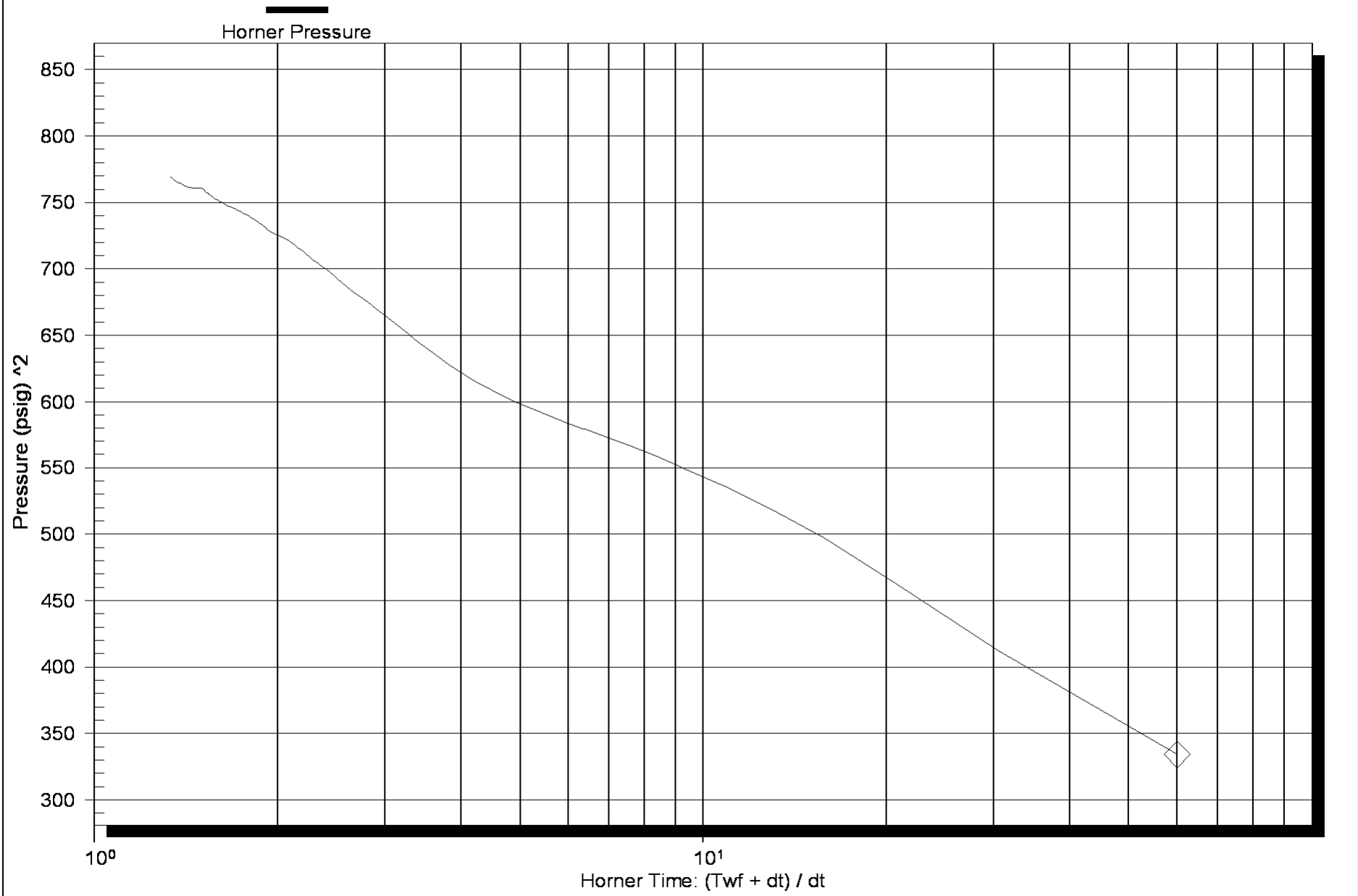








### Horner Plot



### Log-Log and Pseudo-Derivative

