



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates Inc.**

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Clayton Camozzi

9/18S/11W-Barton

Kirby Krier 1-9

Start Date: 2011.05.09 @ 00:36:33

End Date: 2011.05.09 @ 08:03:03

Job Ticket #: 42879 DST #: 2

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42879

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

GENERAL INFORMATION:

Formation: **Lansing I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:14:53

Time Test Ended: 08:03:03

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3175.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 27.80 psig @ 3177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.09

End Date:

2011.05.09

Last Calib.:

2011.05.09

Start Time:

00:46:33

End Time:

08:03:03

Time On Btm:

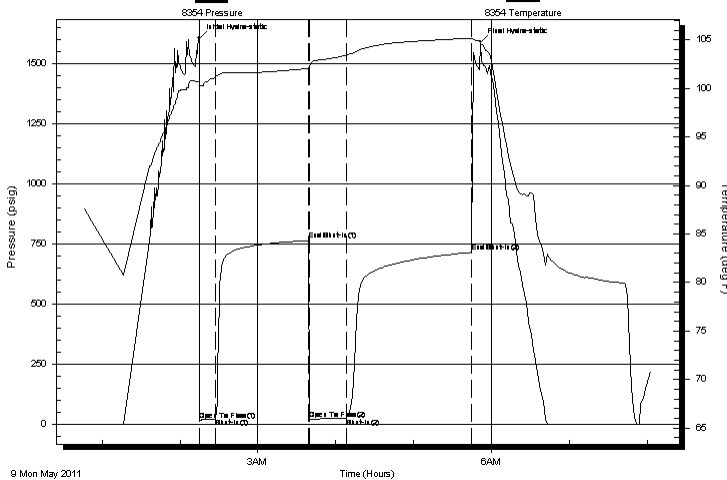
2011.05.09 @ 02:14:43

Time Off Btm:

2011.05.09 @ 05:51:33

TEST COMMENT: IF-Very weak building blow . Built to 1/2 inch.
ISI-No Return.
FF-Very weak surface blow @ 19 minutes.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.20	100.64	Initial Hydro-static
1	18.75	100.04	Open To Flow (1)
13	24.30	101.24	Shut-In(1)
85	764.67	102.06	End Shut-In(1)
86	23.28	102.23	Open To Flow (2)
114	27.80	103.46	Shut-In(2)
210	715.00	105.15	End Shut-In(2)
217	1588.70	104.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28
		0.00
		0.00

Gas Rates

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



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ATTN: Clayton Camozzi

Job Ticket: 42879

DST#: 2

Test Start: 2011.05.09 @ 00:36:33

GENERAL INFORMATION:

Formation: **Lansing I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:14:53

Time Test Ended: 08:03:03

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3175.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8520 Outside

Press @ RunDepth: psig @ 3177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.09 End Date: 2011.05.09

Last Calib.: 2011.05.09

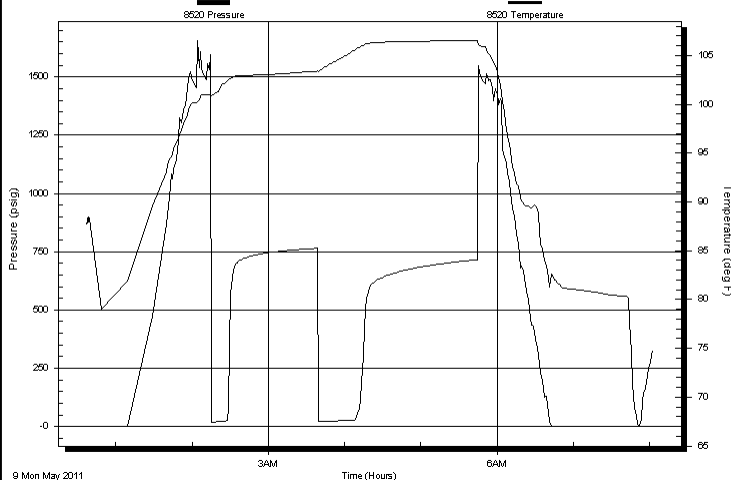
Start Time: 00:36:54 End Time: 08:02:23

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Very weak building blow . Built to 1/2 inch.
IS-No Return.
FF-Very weak surface blow @ 19 minutes.
FS-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28
		0.00
		0.00

Gas Rates

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



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Job Ticket: 42879

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

GENERAL INFORMATION:

Formation: **Lansing I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:14:53

Time Test Ended: 08:03:03

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3175.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1769.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8653 Fluid

Press @ Run Depth: psig @ 3147.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.09

End Date:

2011.05.09

Last Calib.:

2011.05.09

Start Time: 00:37:11

End Time:

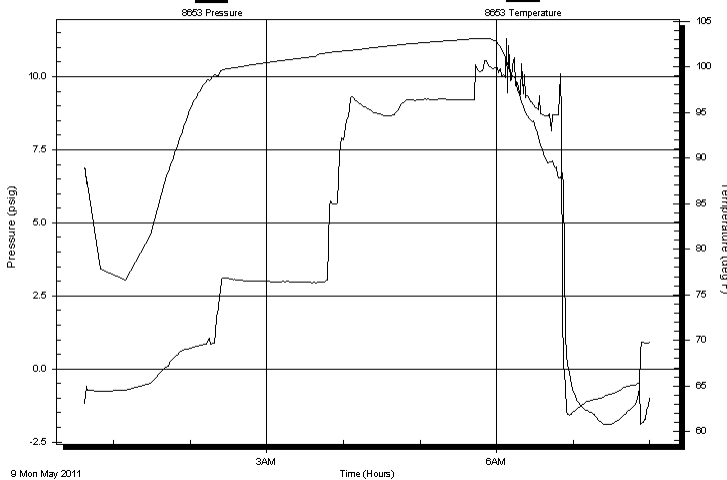
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Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Very weak building blow . Built to 1/2 inch.
IS-No Return.
FF-Very weak surface blow @ 19 minutes.
FS-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28
		0.00
		0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates Inc.

Kirby Krier 1-9

1515 Wynkoop St. Ste 700
Denver, CO 80202

9/18S/11W-Barton

Job Ticket: 42879

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	2000.00 lb
			<u>Total Volume: 44.61 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3175.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3147.00	
Change Over Sub	1.00			3148.00	
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Jars	5.00			3163.00	
Safety Joint	3.00			3166.00	
Packer	5.00			3171.00	28.00 Bottom Of Top Packer
Packer	4.00			3175.00	
Stubb	1.00			3176.00	
Perforations	1.00			3177.00	
Recorder	0.00	8354	Inside	3177.00	
Recorder	0.00	8520	Outside	3177.00	
Perforations	30.00			3207.00	
Bullnose	3.00			3210.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



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FLUID SUMMARY

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DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.05.09 @ 00:36:33

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	40000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.19 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100%Mud	0.281
		0.000
		0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

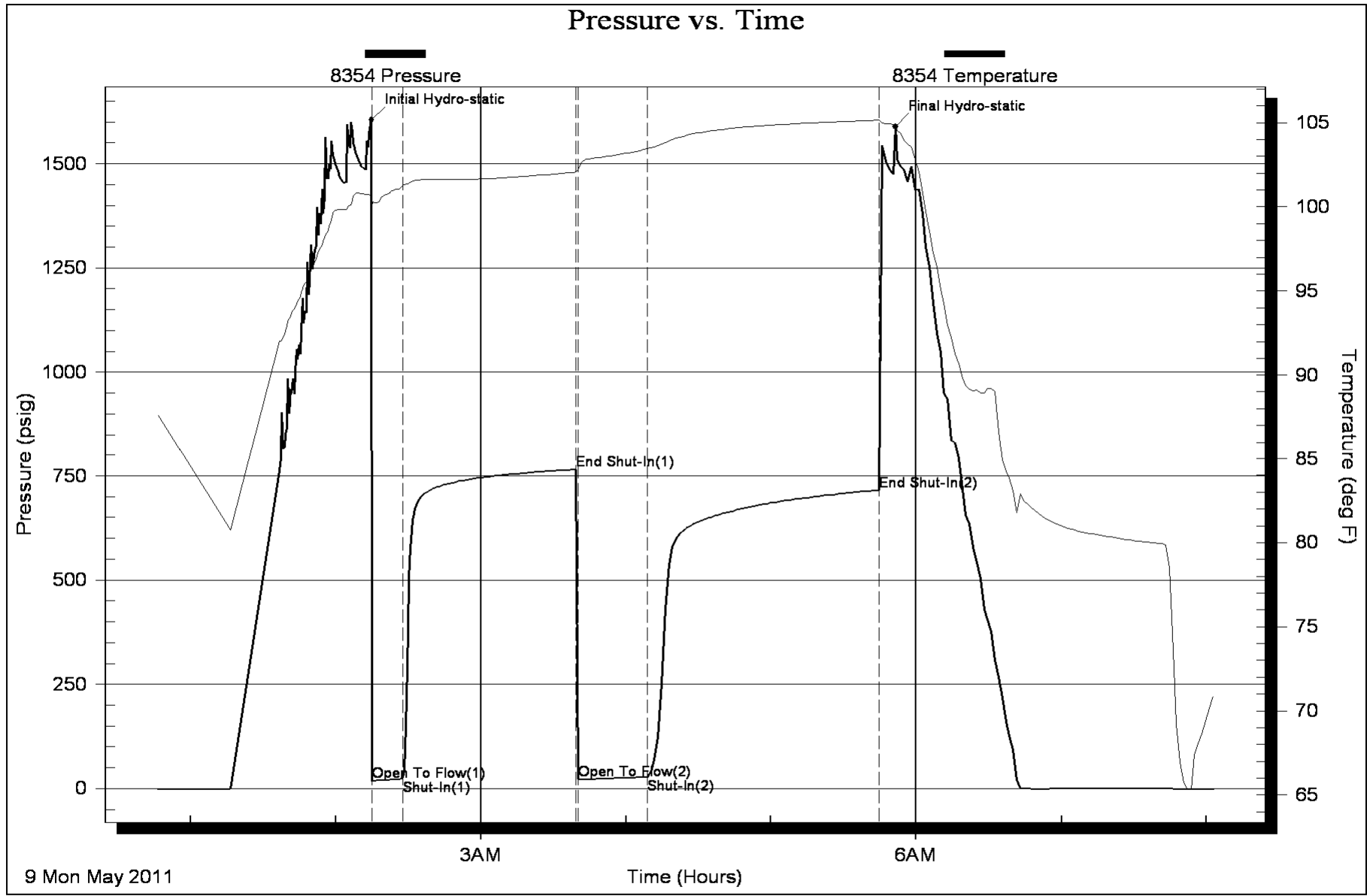
Num Gas Bombs: 0

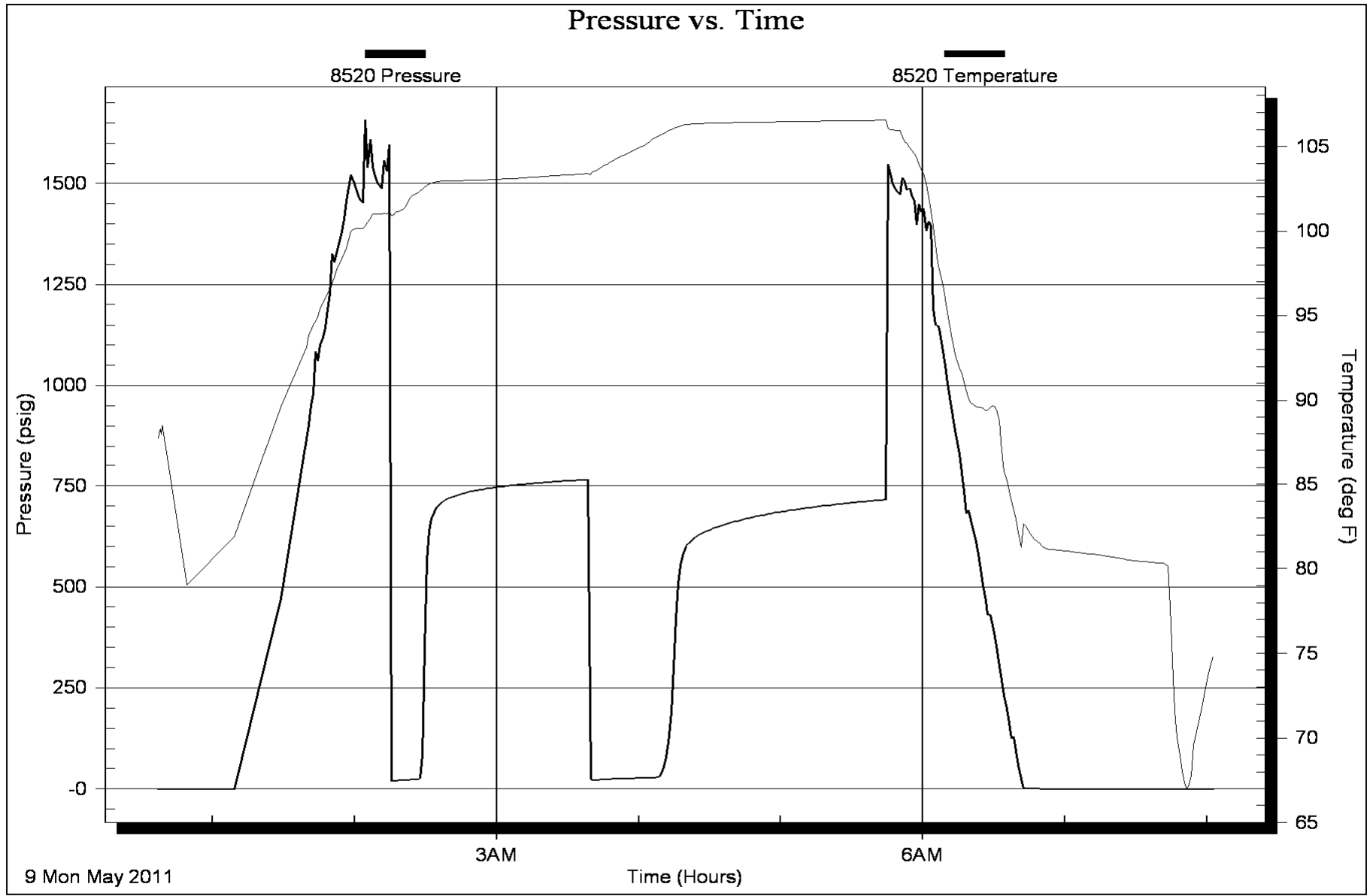
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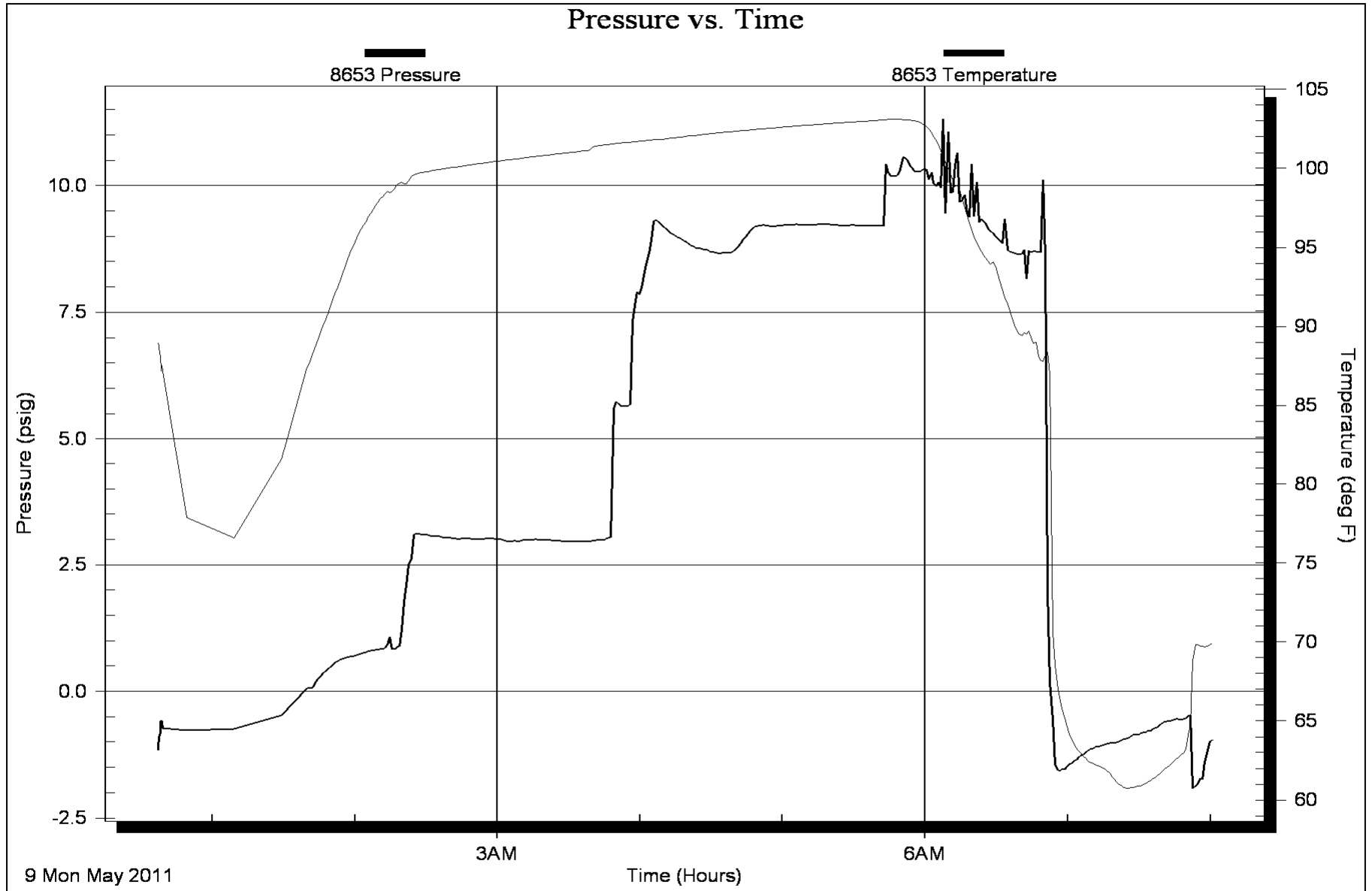
Laboratory Name:

Laboratory Location:

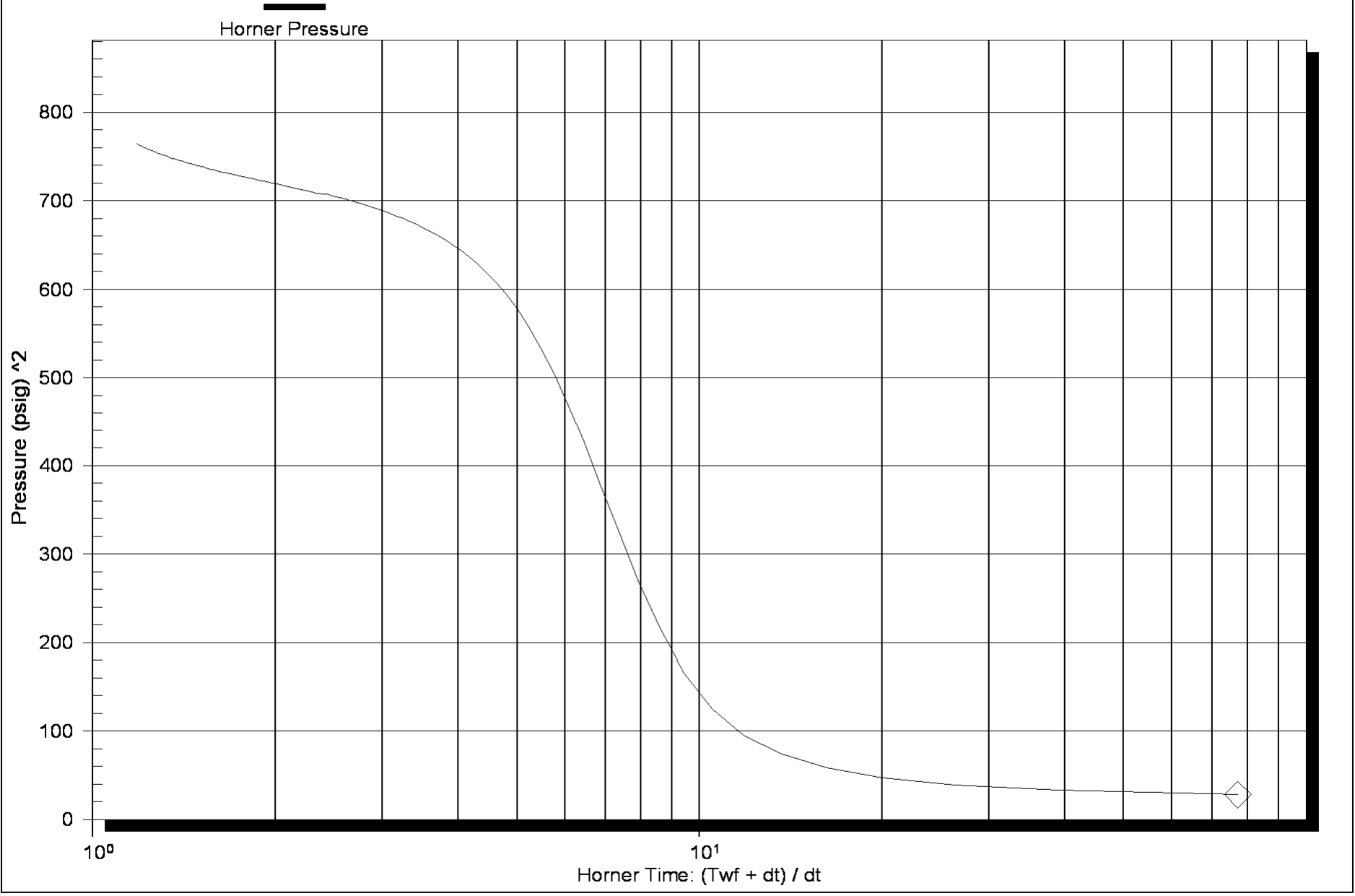
Recovery Comments: Sampler-75%Water/25%Mud- Rw .191 @ 67 = 40000 chloride 1600 ML water/ 400 ML mud-325# Pressure



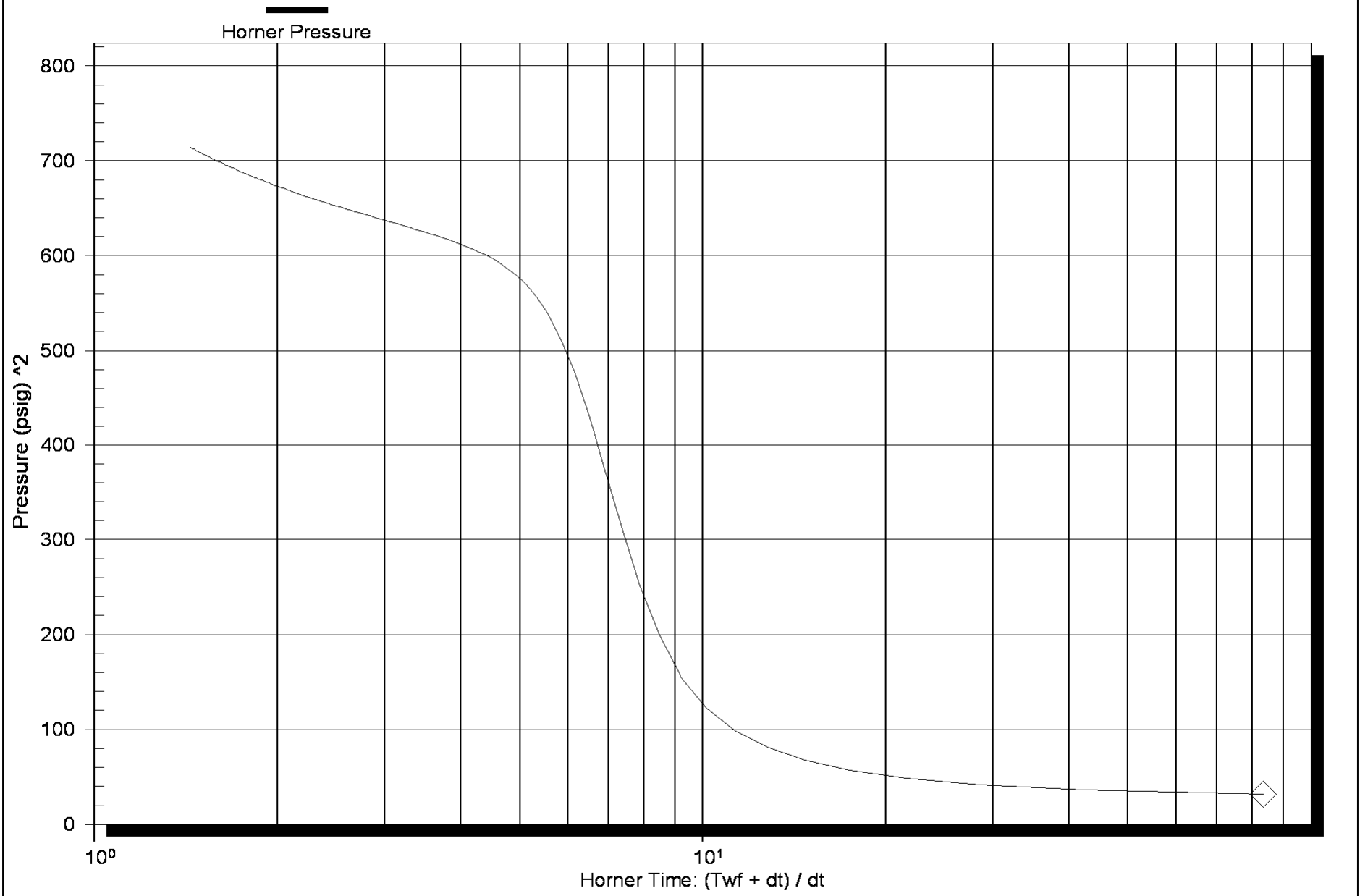




Horner Plot



Horner Plot



Log-Log and Pseudo-Derivative

