



## DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1515 Wynkoop St  
Suite 700  
Denver, CO 80202

ATTN: Clayton Camozzi

**8-16s-16w/Rush**

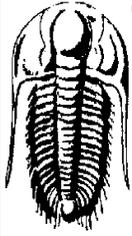
**Dome Living Trust #1-8**

Start Date: 2010.06.07 @ 06:50:33

End Date: 2010.06.07 @ 13:51:03

Job Ticket #: 38671                      DST #: 1

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary  
 1515 Wynkoop St  
 Suite 700  
 Denver, CO 80202  
 ATTN: Clayton Camozzi

**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
 Job Ticket: 38671      **DST#: 1**  
 Test Start: 2010.06.07 @ 06:50:33

## GENERAL INFORMATION:

Formation: **LKC "A-C"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:48:33  
 Time Test Ended: 13:51:03  
**Interval: 3198.00 ft (KB) To 3252.00 ft (KB) (TVD)**  
 Total Depth: 3252.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Tyson Flax  
 Unit No: 44  
 Reference Elevations: 1940.00 ft (KB)  
 1930.00 ft (CF)  
 KB to GR/CF: 10.00 ft

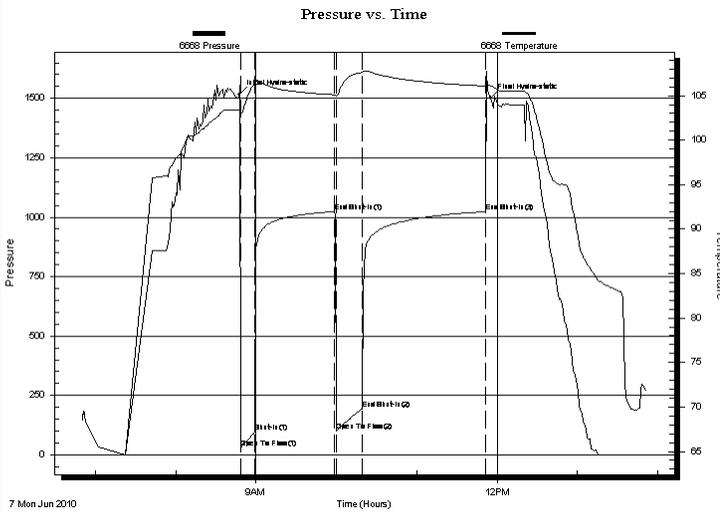
## Serial #: 6668

Inside

Press @ Run Depth: 97.96 psig @ 3202.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.06.07      End Date: 2010.06.07      Last Calib.: 2010.06.07  
 Start Time: 06:50:34      End Time: 13:51:03      Time On Btm: 2010.06.07 @ 08:47:33  
 Time Off Btm: 2010.06.07 @ 11:55:03

**TEST COMMENT:** IFP-BOB in 6 min  
 ISI-no blow back  
 FFP-BOB in 8 min  
 FSI-Weak surface blow back died in 20 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1516.27	103.33	Initial Hydro-static
1	29.87	102.94	Open To Flow (1)
12	97.96	106.36	Shut-In(1)
71	1024.00	105.11	End Shut-In(1)
72	99.21	104.92	Open To Flow (2)
92	193.37	107.60	End Shut-In(2)
184	1023.23	106.07	End Shut-In(3)
188	1501.69	106.08	Final Hydro-static

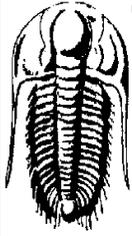
## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	3.40
60.00	MW 60%W,40%M	0.85
50.00	WM 30%W,70%M	0.71

## Gas Rates

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





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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary  
1515 Wynkoop St  
Suite 700  
Denver, CO 80202  
ATTN: Clayton Camozzi

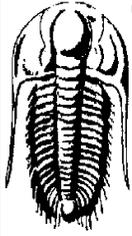
**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
Job Ticket: 38671      **DST#: 1**  
Test Start: 2010.06.07 @ 06:50:33

**Tool Information**

Drill Pipe:	Length: 3196.00 ft	Diameter: 3.82 inches	Volume: 45.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 65000.00 lb
			<u>Total Volume: 45.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3198.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3171.00	
Shut In Tool	5.00			3176.00	
Hydraulic tool	5.00			3181.00	
Jars	5.00			3186.00	
Safety Joint	2.00			3188.00	
Packer	5.00			3193.00	28.00      Bottom Of Top Packer
Packer	5.00			3198.00	
Stubb	1.00			3199.00	
Perforations	2.00			3201.00	
Change Over Sub	1.00			3202.00	
Recorder	0.00	6668	Inside	3202.00	
Recorder	0.00	6669	Inside	3202.00	
Blank Spacing	31.00			3233.00	
Change Over Sub	1.00			3234.00	
Perforations	15.00			3249.00	
Bullnose	3.00			3252.00	54.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>82.00</b>				



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**FLUID SUMMARY**

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ATTN: Clayton Camozzi

**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
Job Ticket: 38671      **DST#: 1**  
Test Start: 2010.06.07 @ 06:50:33

## Mud and Cushion Information

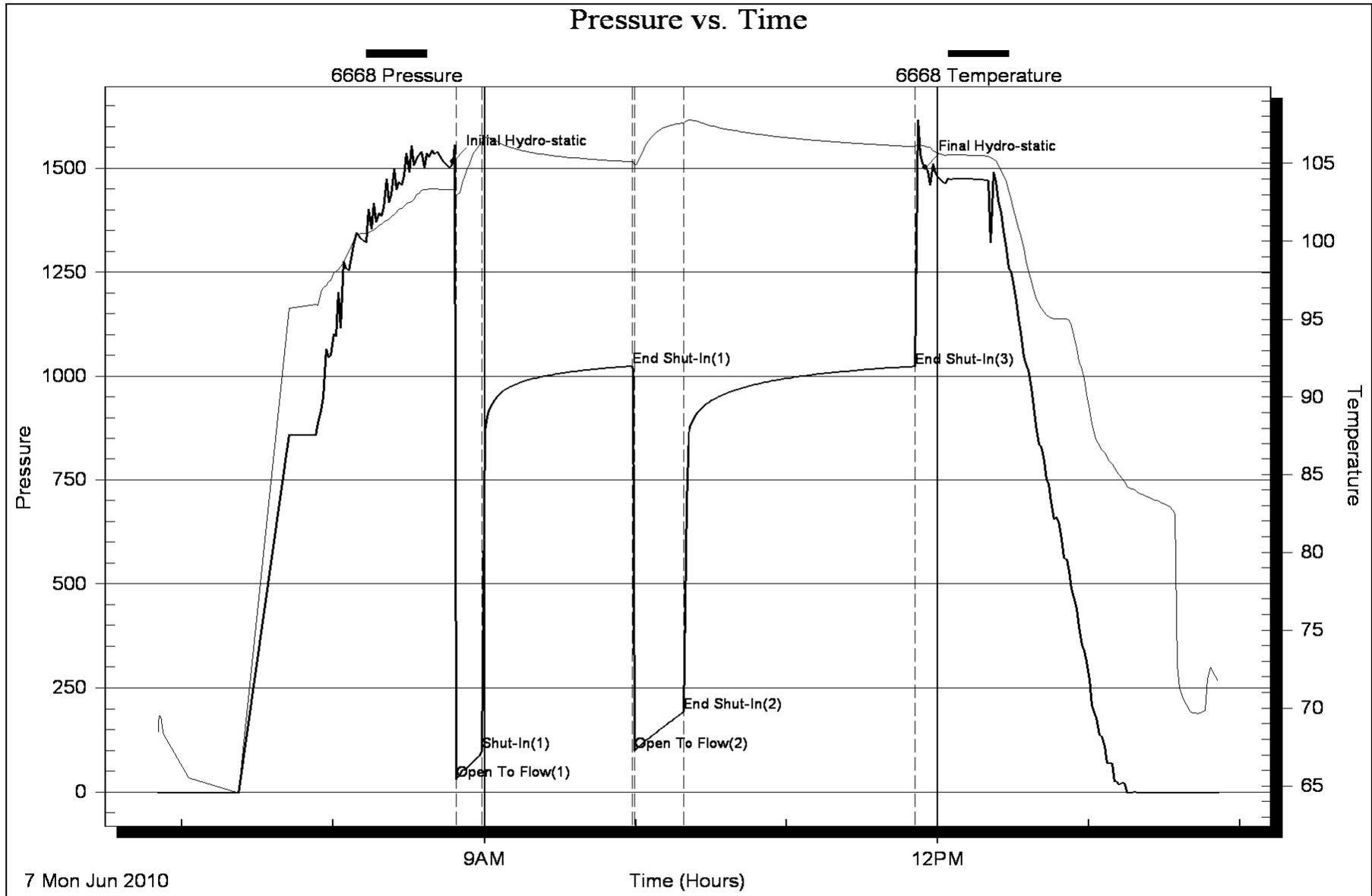
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	43000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

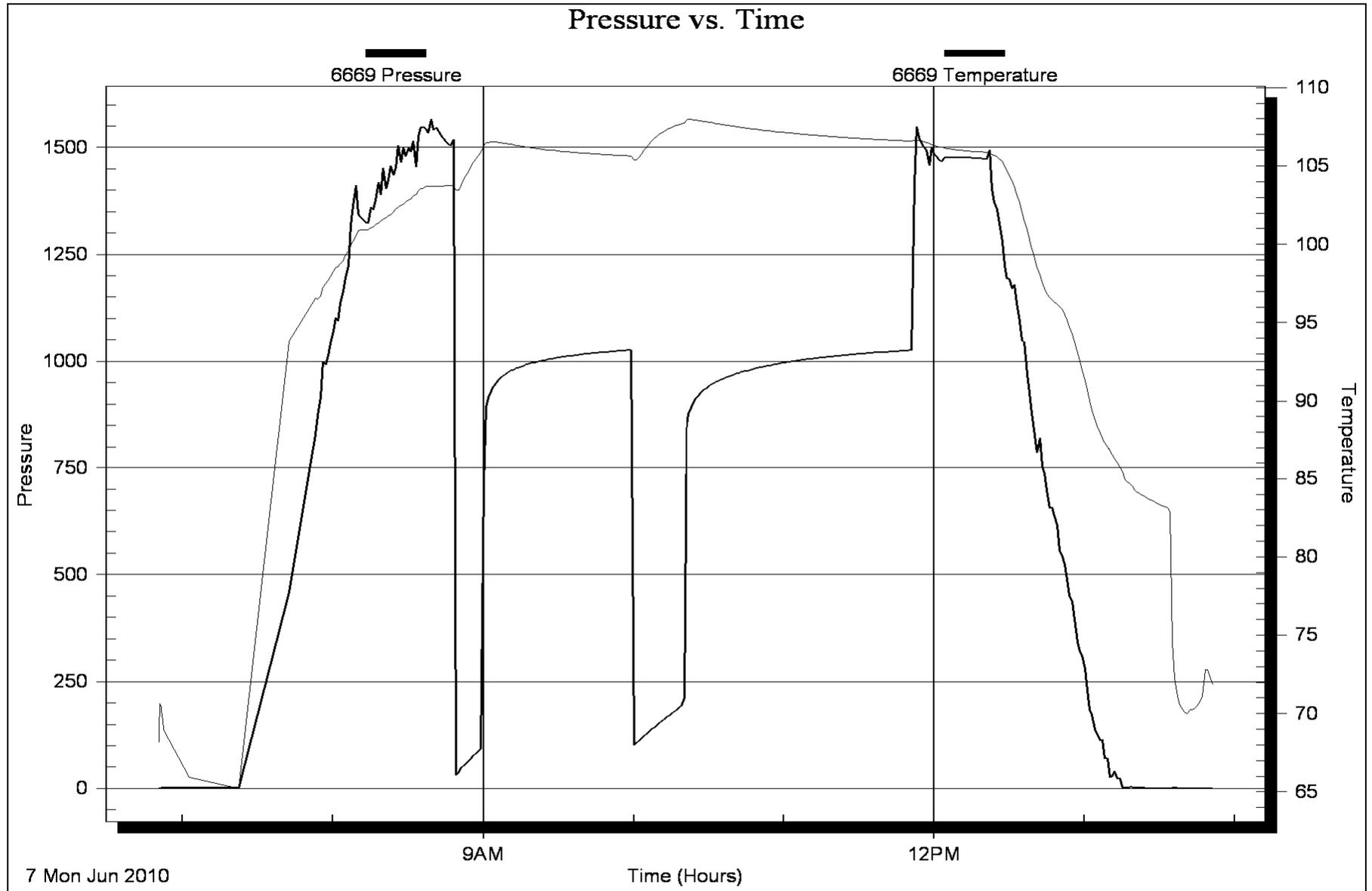
## Recovery Information

Recovery Table

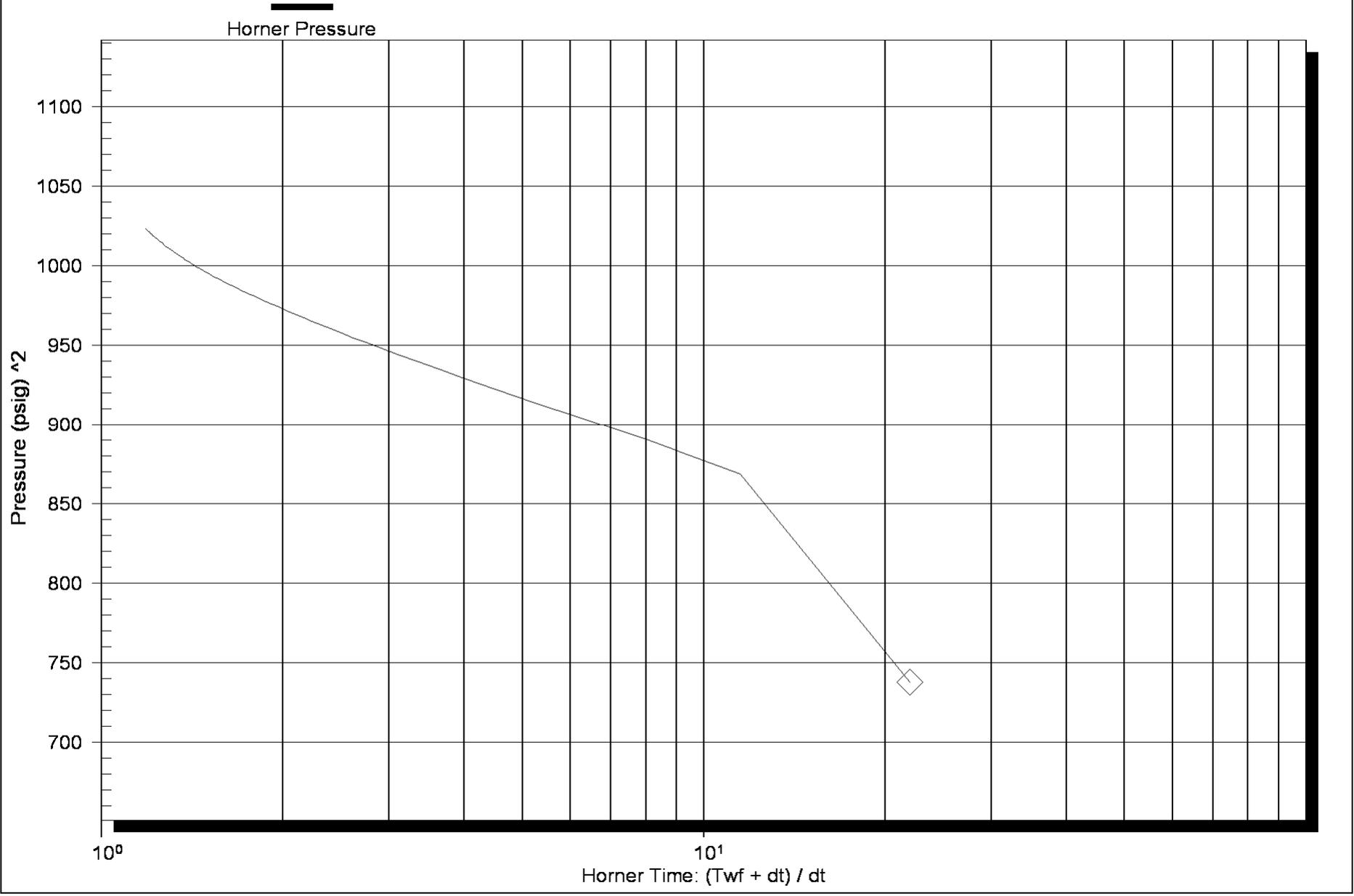
Length ft	Description	Volume bbl
240.00	Water	3.402
60.00	MW 60%W,40%M	0.851
50.00	WM 30%W,70%M	0.709

Total Length: 350.00 ft      Total Volume: 4.962 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

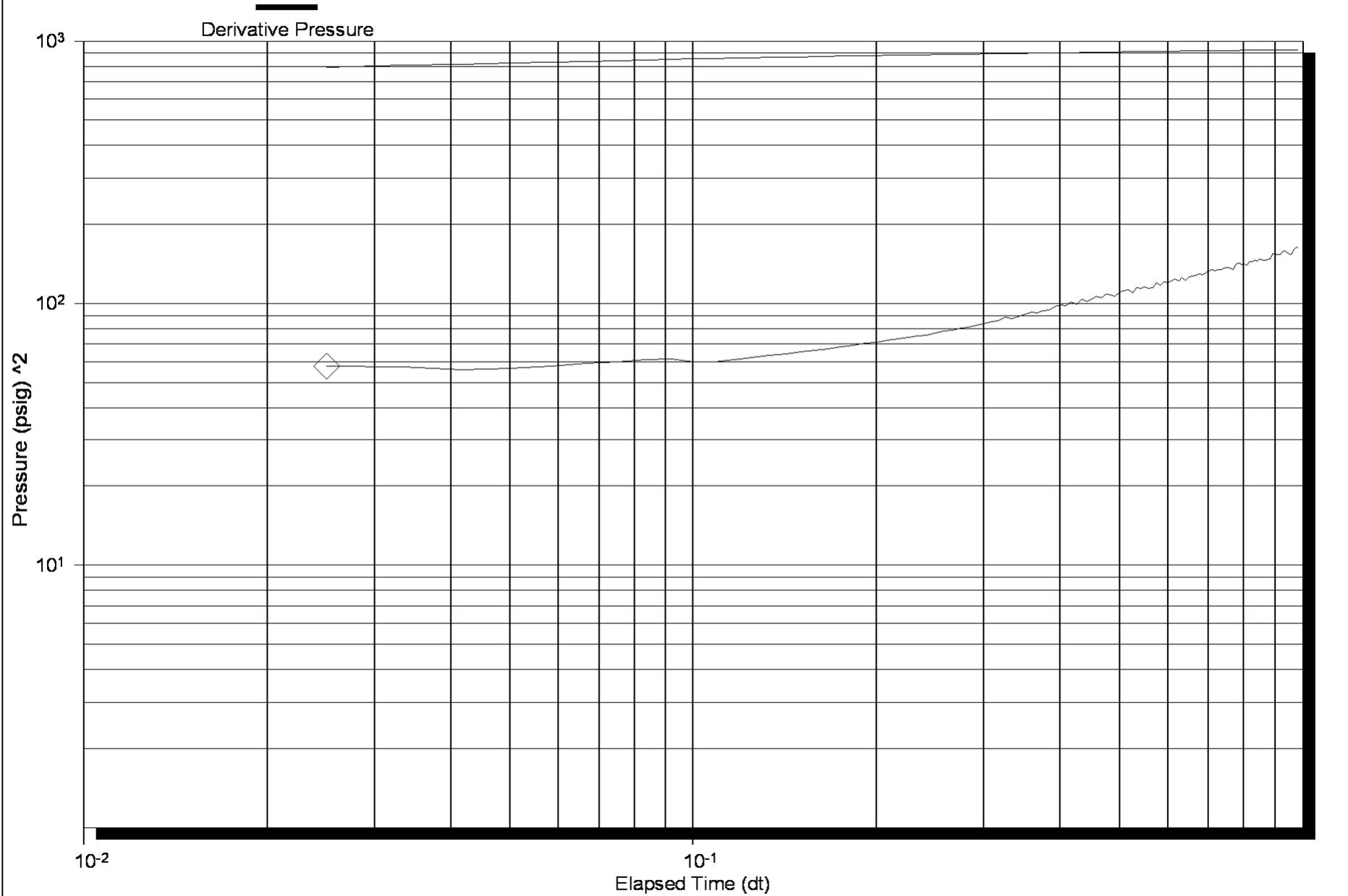




### Horner Plot



# Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

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Suite 700  
Denver, CO 80202

ATTN: Clayton Camozzi

**8-16s-16w/Rush**

**Dome Living Trust #1-8**

Start Date: 2010.06.07 @ 23:30:24

End Date: 2010.06.08 @ 06:53:24

Job Ticket #: 38672                      DST #: 2

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# DRILL STEM TEST REPORT

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ATTN: Clayton Camozzi

**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
Job Ticket: 38672      **DST#: 2**  
Test Start: 2010.06.07 @ 23:30:24

## GENERAL INFORMATION:

Formation: **LKC "F-G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:34:24  
 Time Test Ended: 06:53:24  
 Interval: **3272.00 ft (KB) To 3310.00 ft (KB) (TVD)**  
 Total Depth: 3272.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Tyson Flax  
 Unit No: 44  
 Reference Elevations: 1940.00 ft (KB)  
 1930.00 ft (CF)  
 KB to GR/CF: 10.00 ft

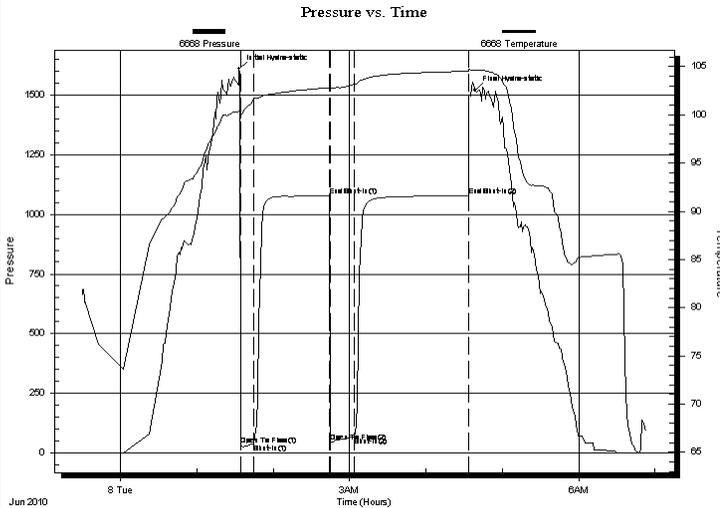
## Serial #: 6668

Inside

Press @ Run Depth: 65.26 psig @ 3276.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.06.07 End Date: 2010.06.08 Last Calib.: 2010.06.08  
 Start Time: 23:30:25 End Time: 06:53:24 Time On Btm: 2010.06.08 @ 01:33:24  
 Time Off Btm: 2010.06.08 @ 04:38:54

TEST COMMENT: IFP-BOB in 2.5 min  
 ISI-Weak blow back built to 1" died in 30 min  
 FFP-BOB in 4 min  
 FSI-Weak blow back built to 1" died in 24 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1609.21	100.39	Initial Hydro-static
1	34.51	99.67	Open To Flow (1)
12	37.75	101.61	Shut-In(1)
71	1079.16	102.81	End Shut-In(1)
72	44.88	102.75	Open To Flow (2)
91	65.26	103.19	Shut-In(2)
180	1078.07	104.52	End Shut-In(2)
186	1520.91	104.66	Final Hydro-static

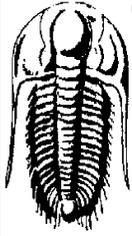
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCWO 10%G,60%O,10%W,20%M	0.85
65.00	GOCM 20%G,30%,50%M	0.92
0.00	475' GIP	0.00

## Gas Rates

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





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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary  
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ATTN: Clayton Camozzi

**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
Job Ticket: 38672      **DST#: 2**  
Test Start: 2010.06.07 @ 23:30:24

**Tool Information**

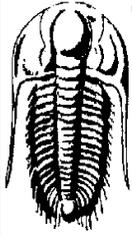
Drill Pipe:	Length: 3260.00 ft	Diameter: 3.82 inches	Volume: 46.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3272.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3245.00	
Shut In Tool	5.00			3250.00	
Hydraulic tool	5.00			3255.00	
Jars	5.00			3260.00	
Safety Joint	2.00			3262.00	
Packer	5.00			3267.00	28.00      Bottom Of Top Packer
Packer	5.00			3272.00	
Stubb	1.00			3273.00	
Perforations	2.00			3275.00	
Change Over Sub	1.00			3276.00	
Recorder	0.00	6668	Inside	3276.00	
Recorder	0.00	6669	Inside	3276.00	
Blank Spacing	30.00			3306.00	
Change Over Sub	1.00			3307.00	
Bullnose	3.00			3310.00	38.00      Bottom Packers & Anchor

**Total Tool Length: 66.00**



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**8-16s-16w/Rush**  
Job Ticket: 38672      **DST#: 2**  
Test Start: 2010.06.07 @ 23:30:24

## Mud and Cushion Information

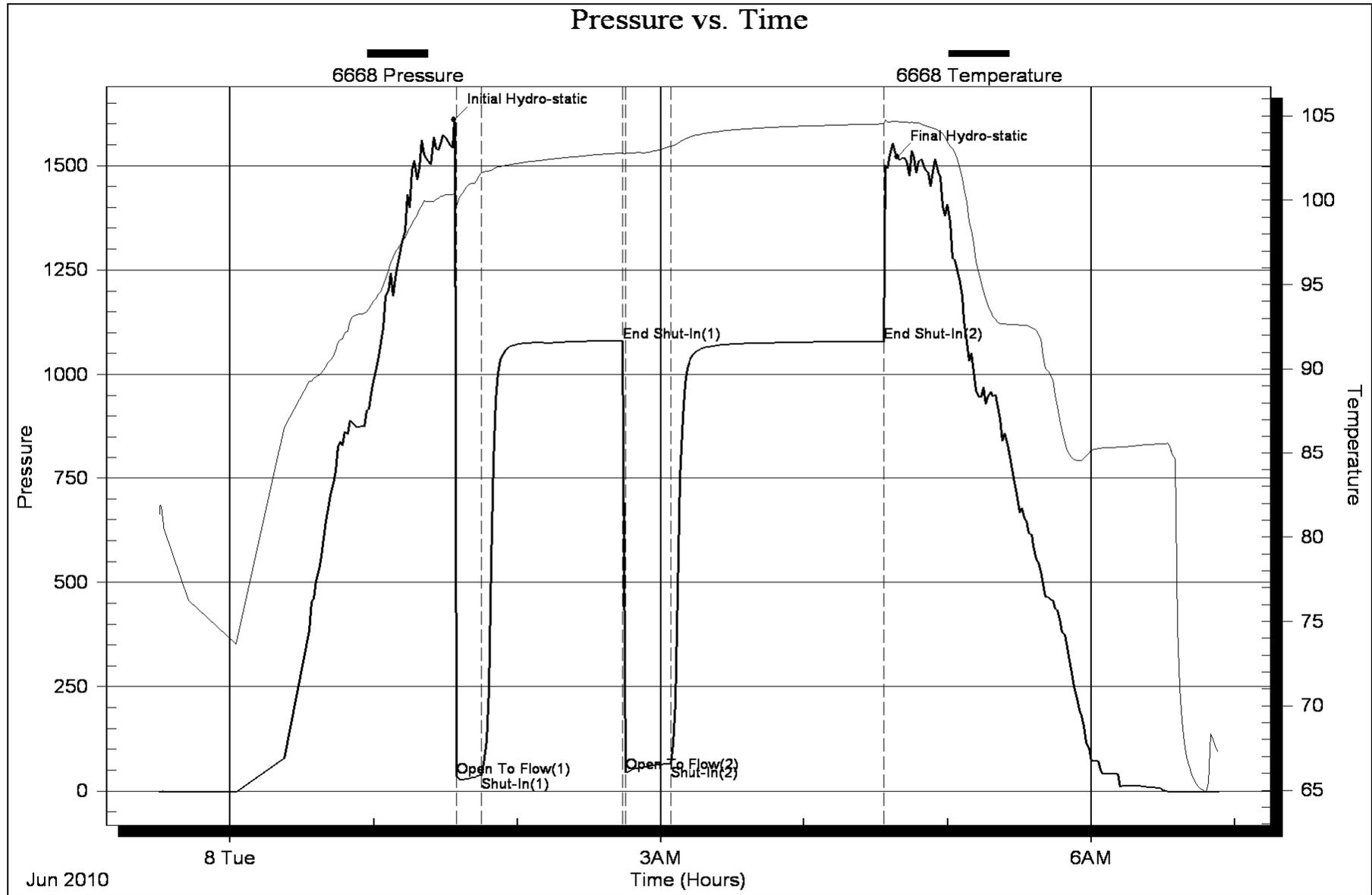
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

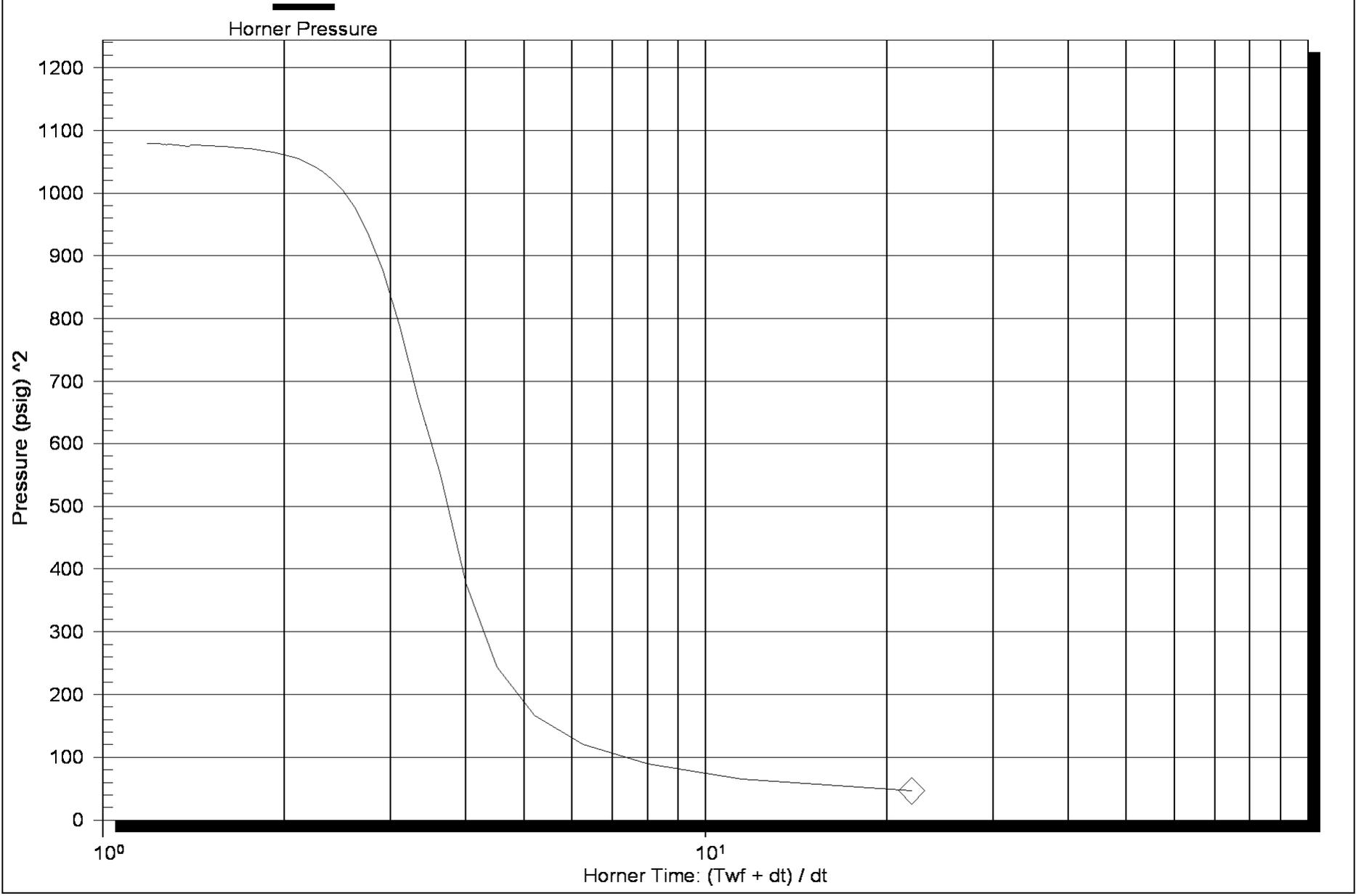
Length ft	Description	Volume bbl
60.00	GMCWO 10%G,60%O,10%W,20%M	0.851
65.00	GOCM 20%G,30%,50%M	0.921
0.00	475' GIP	0.000

Total Length: 125.00 ft      Total Volume: 1.772 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

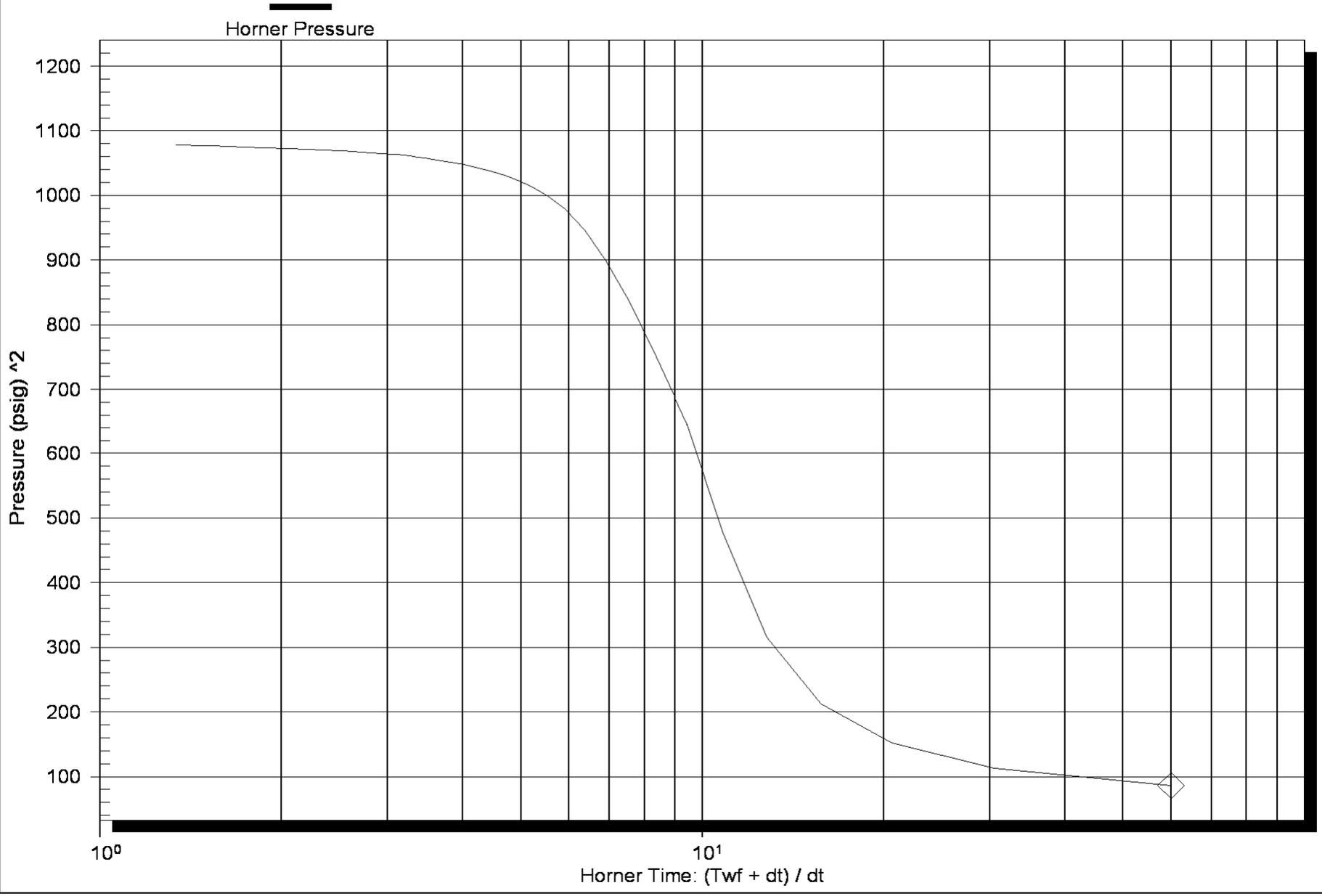




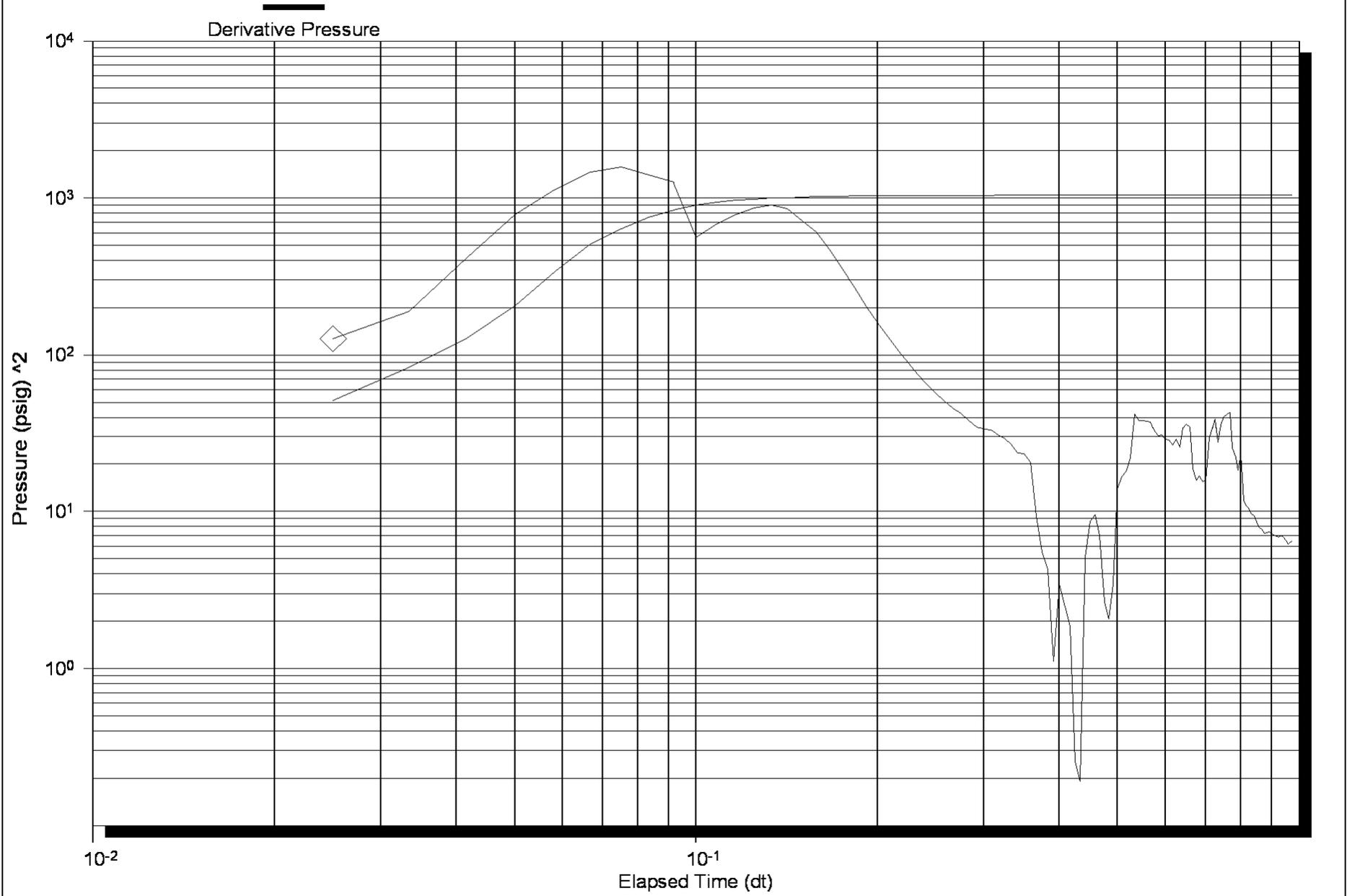
### Horner Plot



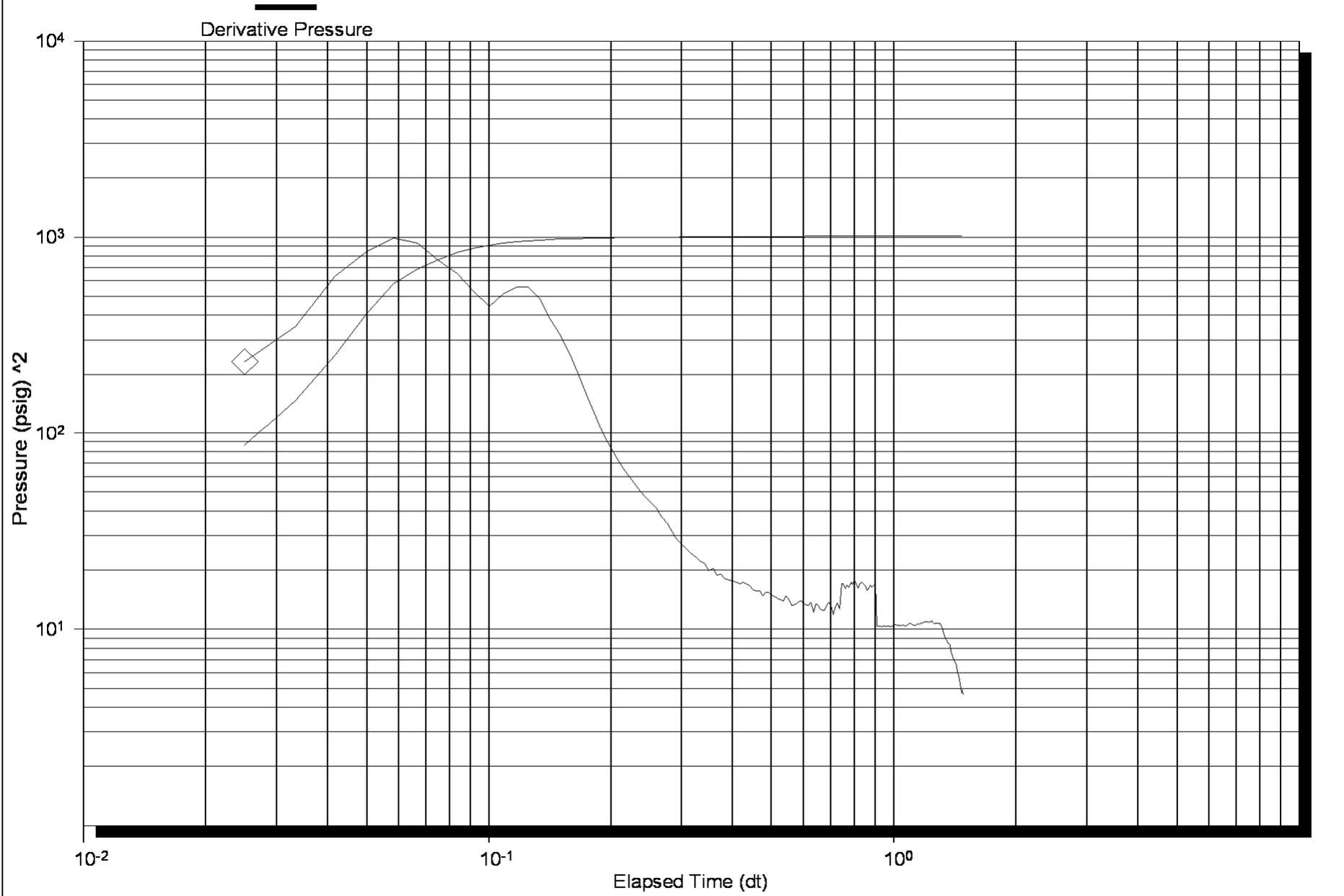
### Horner Plot



# Log-Log and Pseudo-Derivative



### Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

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ATTN: Clayton Camozzi

**8-16s-16w/Rush**

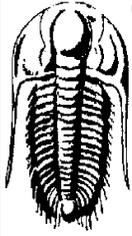
**Dome Living Trust #1-8**

Start Date: 2010.06.08 @ 14:20:54

End Date: 2010.06.08 @ 22:35:24

Job Ticket #: 38673                      DST #: 3

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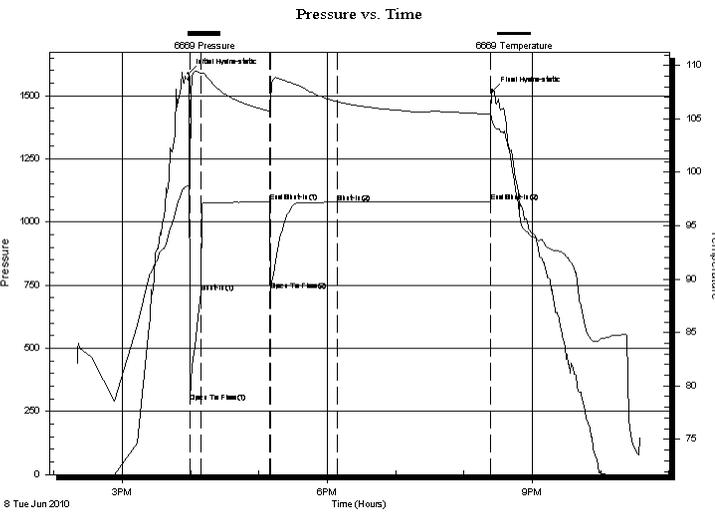
**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
 Job Ticket: 38673 **DST#: 3**  
 Test Start: 2010.06.08 @ 14:20:54

## GENERAL INFORMATION:

Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:59:24  
 Time Test Ended: 22:35:24  
 Interval: **3270.00 ft (KB) To 3322.00 ft (KB) (TVD)**  
 Total Depth: 3322.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Tyson Flax  
 Unit No: 44  
 Reference Elevations: 1940.00 ft (KB)  
 1930.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6669 Inside**  
 Press @ Run Depth: 1078.42 psig @ 3274.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.06.08 End Date: 2010.06.08 Last Calib.: 2010.06.08  
 Start Time: 14:20:55 End Time: 22:35:24 Time On Btm: 2010.06.08 @ 15:58:24  
 Time Off Btm: 2010.06.08 @ 20:25:24

**TEST COMMENT:** IFP-BOB in 1 min  
 ISI-Blow back built to 8"  
 FFP-BOB in 40 sec died to 2"  
 FSI-no blow back



## PRESSURE SUMMARY

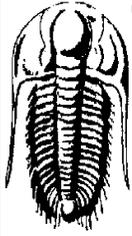
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1588.78	98.77	Initial Hydro-static
1	287.28	98.92	Open To Flow (1)
11	720.45	109.27	Shut-In(1)
71	1079.15	105.70	End Shut-In(1)
72	727.94	105.46	Open To Flow (2)
131	1078.42	106.60	Shut-In(2)
265	1079.76	105.44	End Shut-In(2)
267	1518.13	104.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1800.00	Water	25.52
300.00	WM 50-30%W,50-70%M	4.25
60.00	Mud w /scum of oil	0.85
5.00	OCM 10%O,90%M	0.07

## Gas Rates

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



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TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

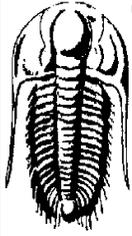
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ATTN: Clayton Camozzi

**Dome Living Trust #1-8**  
**8-16s-16w/Rush**  
Job Ticket: 38673      **DST#: 3**  
Test Start: 2010.06.08 @ 14:20:54

**Tool Information**

Drill Pipe:	Length: 3259.00 ft	Diameter: 3.82 inches	Volume: 46.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 70000.00 lb
			<u>Total Volume: 46.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3270.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3243.00	
Shut In Tool	5.00			3248.00	
Hydraulic tool	5.00			3253.00	
Jars	5.00			3258.00	
Safety Joint	2.00			3260.00	
Packer	5.00			3265.00	28.00      Bottom Of Top Packer
Packer	5.00			3270.00	
Stubb	1.00			3271.00	
Perforations	2.00			3273.00	
Change Over Sub	1.00			3274.00	
Recorder	0.00	6668	Inside	3274.00	
Recorder	0.00	6669	Inside	3274.00	
Blank Spacing	31.00			3305.00	
Change Over Sub	1.00			3306.00	
Perforations	13.00			3319.00	
Bullnose	3.00			3322.00	52.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>80.00</b>				



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ATTN: Clayton Camozzi

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Job Ticket: 38673      **DST#: 3**  
Test Start: 2010.06.08 @ 14:20:54

**Mud and Cushion Information**

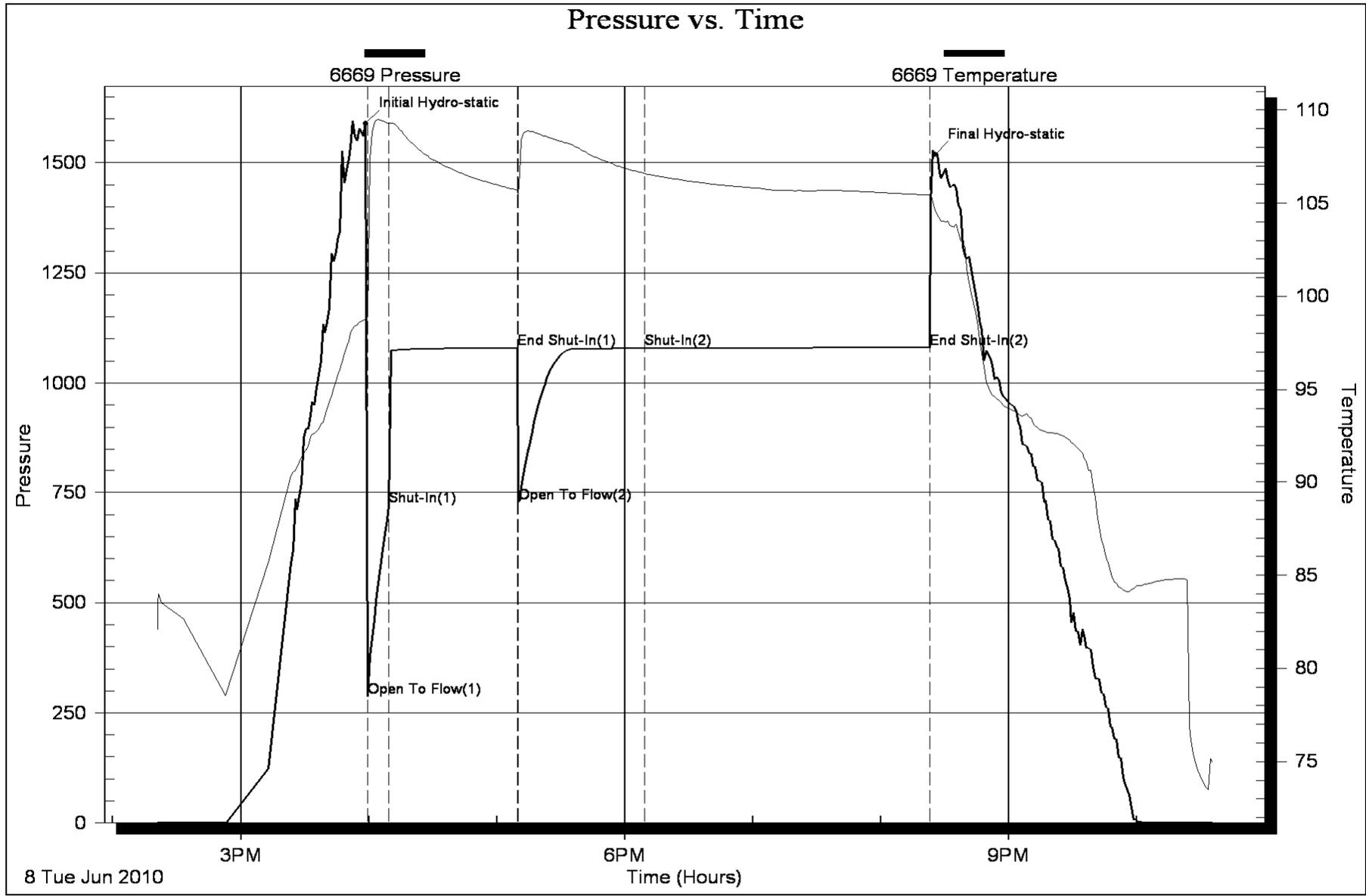
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	75000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4300.00 ppm			
Filter Cake: inches			

**Recovery Information**

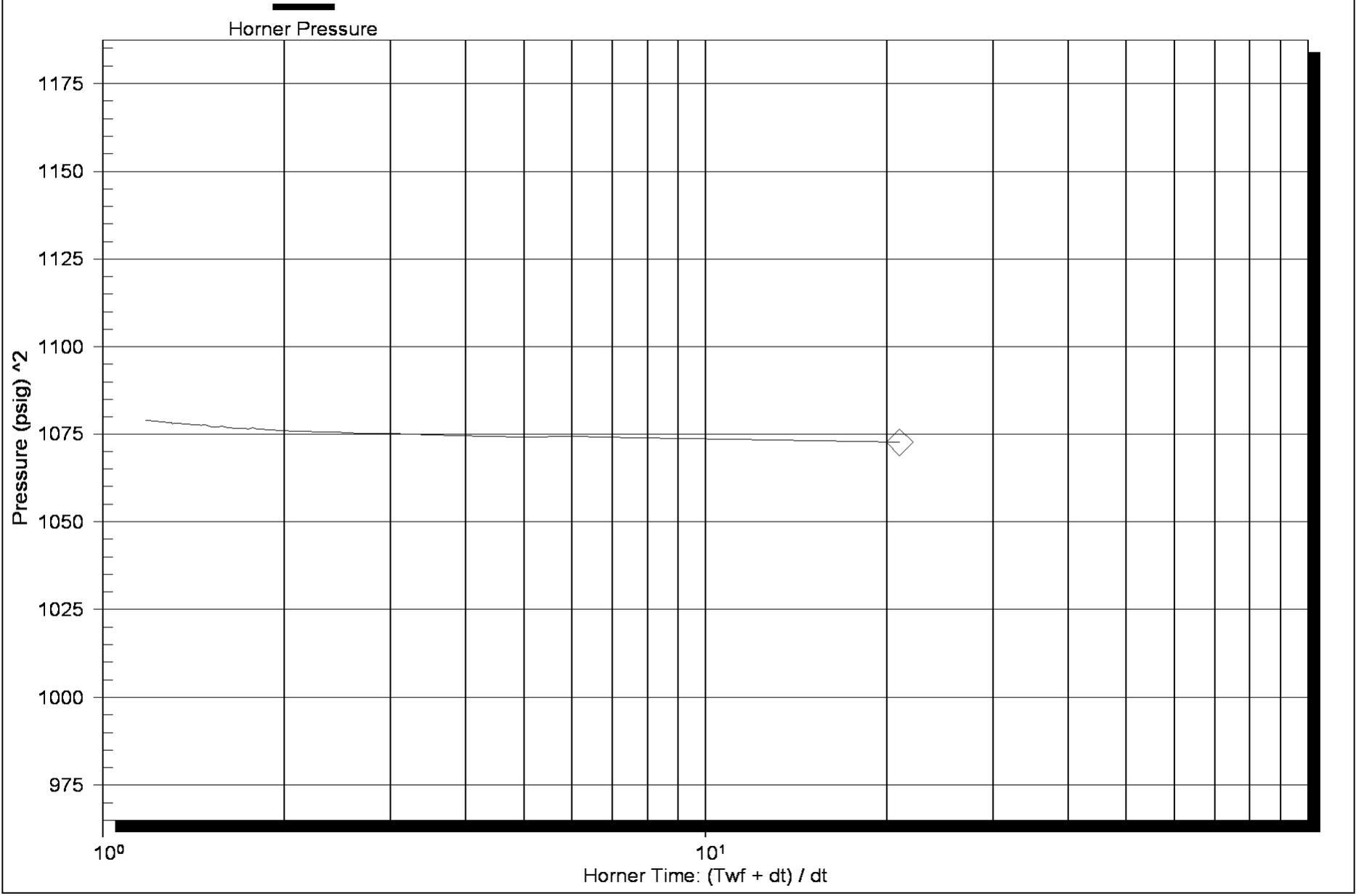
Recovery Table

Length ft	Description	Volume bbl
1800.00	Water	25.516
300.00	WM 50-30%W,50-70%M	4.253
60.00	Mud w /scum of oil	0.851
5.00	OCM 10%O,90%M	0.071

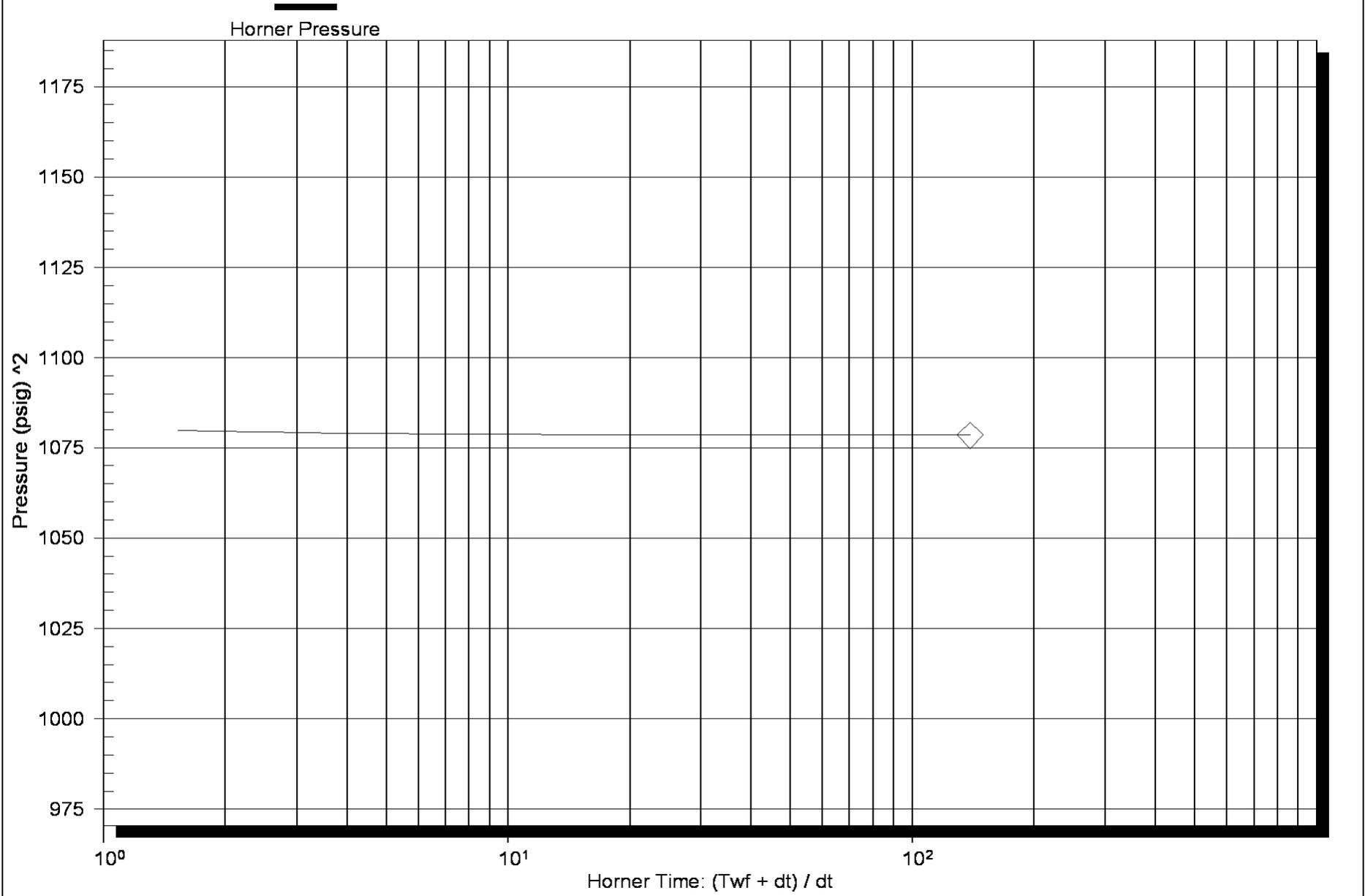
Total Length: 2165.00 ft      Total Volume: 30.691 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



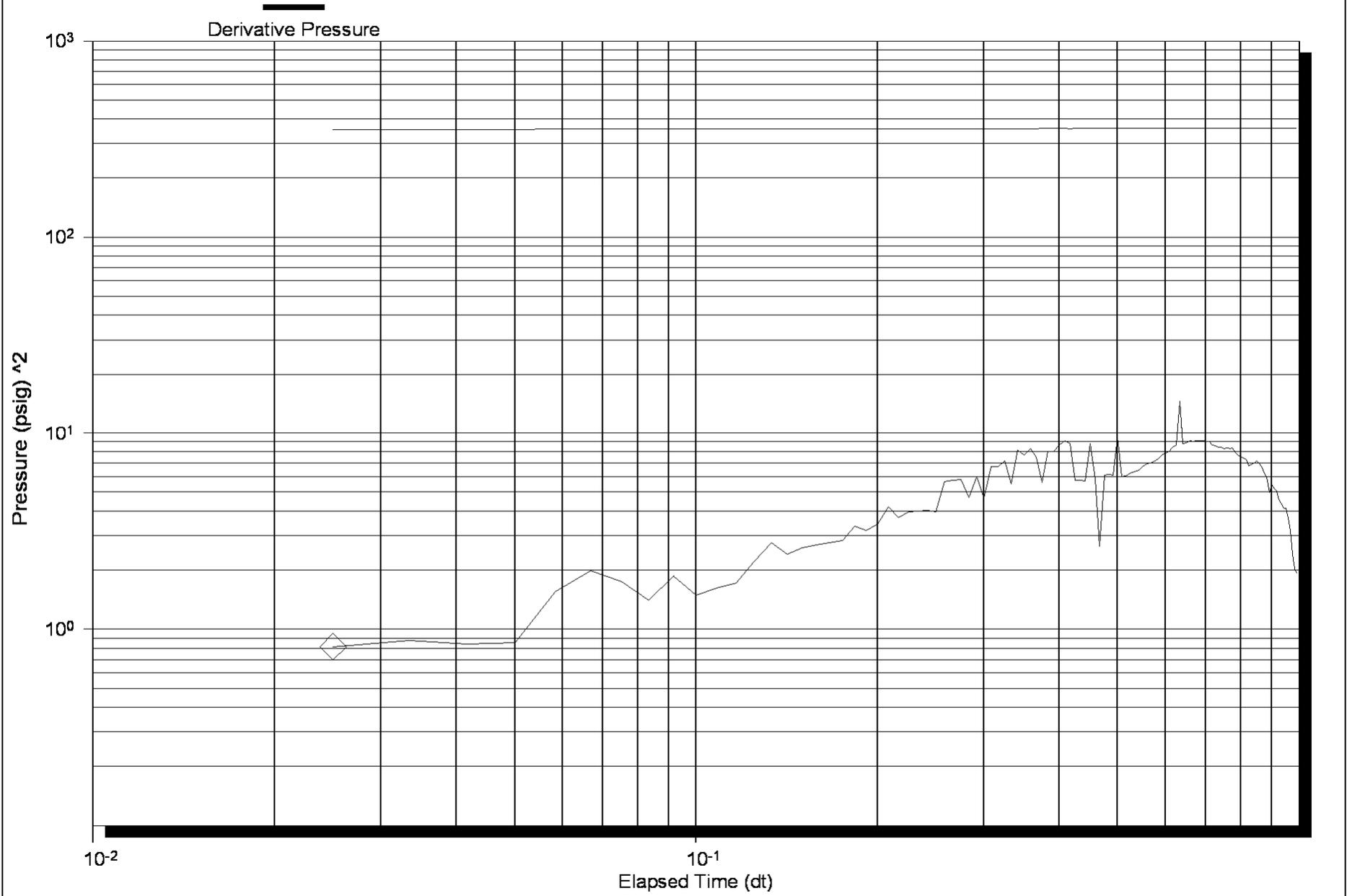
# Horner Plot



# Horner Plot



# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative

