

DRILL STEM TEST REPORT

Prepared For: **S.Gary Jr&Assoc.inc.**

1515 Wynkoop, Ste.700
Denver Co. 80202

ATTN: Clayton Camozzi

36-15s-16 Ellis

Boxberger 4-36

Start Date: 2011.06.18 @ 00:33:05

End Date: 2011.06.18 @ 08:41:20

Job Ticket #: 042644 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

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Boxberger 4-36

1515 Wynkoop, Ste.700
Denver Co. 80202

36-15s-16 Ellis

Job Ticket: 042644

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.06.18 @ 00:33:05

GENERAL INFORMATION:

Formation: **LKC"D,F & upp G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:11:30

Time Test Ended: 08:41:20

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3250.00 ft (KB) To 3298.00 ft (KB) (TVD)

Reference Elevations: 1935.00 ft (KB)

Total Depth: 3298.00 ft (KB) (TVD)

1927.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @RunDepth: 114.66 psig @ 3253.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.18

End Date:

2011.06.18

Last Calib.:

2011.06.18

Start Time:

00:33:05

End Time:

08:41:20

Time On Btm:

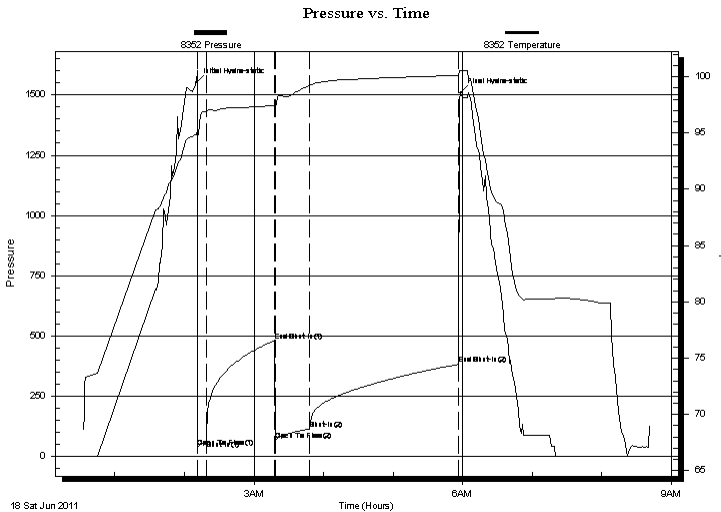
2011.06.18 @ 02:10:40

Time Off Btm:

2011.06.18 @ 05:58:09

TEST COMMENT: IF:(5min) Strong 8 inch blow
IS:(60min) Return surface Blow , Final 25 min
FF:(30min) BOB, 4 min.
FS:(120min) Return Surface Blow Throughout;

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1552.60	94.97	Initial Hydro-static
1	37.56	94.67	Open To Flow (1)
9	68.93	96.92	Shut-In(1)
68	480.11	97.46	End Shut-In(1)
68	66.41	97.28	Open To Flow (2)
97	114.66	99.21	Shut-In(2)
226	382.79	100.11	End Shut-In(2)
228	1509.05	100.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	GOCMW g=5% o=5% m=40% w =50%	0.77
65.00	GOCWM g=10% o=5% w =10% m=75%	0.91
65.00	GOCWM g=20% o=5% w =5% m=70%	0.91
0.00	GIP=95ft	0.00

Gas Rates

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



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Total Depth: 3298.00 ft (KB) (TVD)

1927.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8650 Fluid

Press @ RunDepth: psig @ 3213.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.18

End Date:

2011.06.18

Last Calib.:

2011.06.18

Start Time: 00:33:05

End Time:

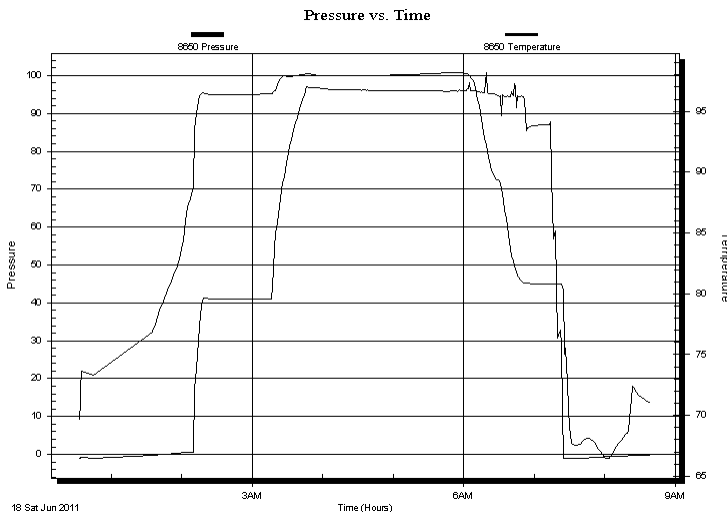
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Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(5min) Strong 8 inch blow
IS:(60min) Return surface Blow , Final 25 min
FF:(30min) BOB, 4 min.
FS:(120min) Return Surface Blow Throughout;

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	GOCMW g=5% o=5% m=40% w =50%	0.77
65.00	GOCWM g=10% o=5% w =10% m=75%	0.91
65.00	GOCWM g=20% o=5% w =5% m=70%	0.91
0.00	GIP=95ft	0.00

Gas Rates

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



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TOOL DIAGRAM

S.Gary Jr&Assoc.inc.

Boxberger 4-36

1515 Wynkoop, Ste.700
Denver Co. 80202

36-15s-16 Ellis

Job Ticket: 042644

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.06.18 @ 00:33:05

Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 44.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3250.00 ft			Final	47500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	85.00 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	8650	Fluid	3213.00	
Change Over Sub	1.00			3214.00	
Blank Spacing	5.00			3219.00	
Shut In Tool	5.00			3224.00	
Sampler	4.00			3228.00	
Hydraulic tool	5.00			3233.00	
Jars	5.00			3238.00	
Safety Joint	3.00			3241.00	
Packer	5.00			3246.00	37.00 Bottom Of Top Packer
Packer	4.00			3250.00	
Stubb	1.00			3251.00	
Perforations	1.00			3252.00	
Change Over Sub	1.00			3253.00	
Recorder	0.00	8017	Inside	3253.00	
Recorder	0.00	8352	Outside	3253.00	
Drill Pipe	31.00			3284.00	
Change Over Sub	1.00			3285.00	
Perforations	10.00			3295.00	
Bullnose	3.00			3298.00	48.00 Bottom Packers & Anchor

Total Tool Length: 85.00



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FLUID SUMMARY

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36-15s-16 Ellis

Job Ticket: 042644

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.06.18 @ 00:33:05

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:

65000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	GOCMW g=5% o=5% m=40% w =50%	0.770
65.00	GOCWM g=10% o=5% w =10% m=75%	0.912
65.00	GOCWM g=20% o=5% w =5% m=70%	0.912
0.00	GIP=95ft	0.000

Total Length: 205.00 ft Total Volume: 2.594 bbl

Num Fluid Samples: 0

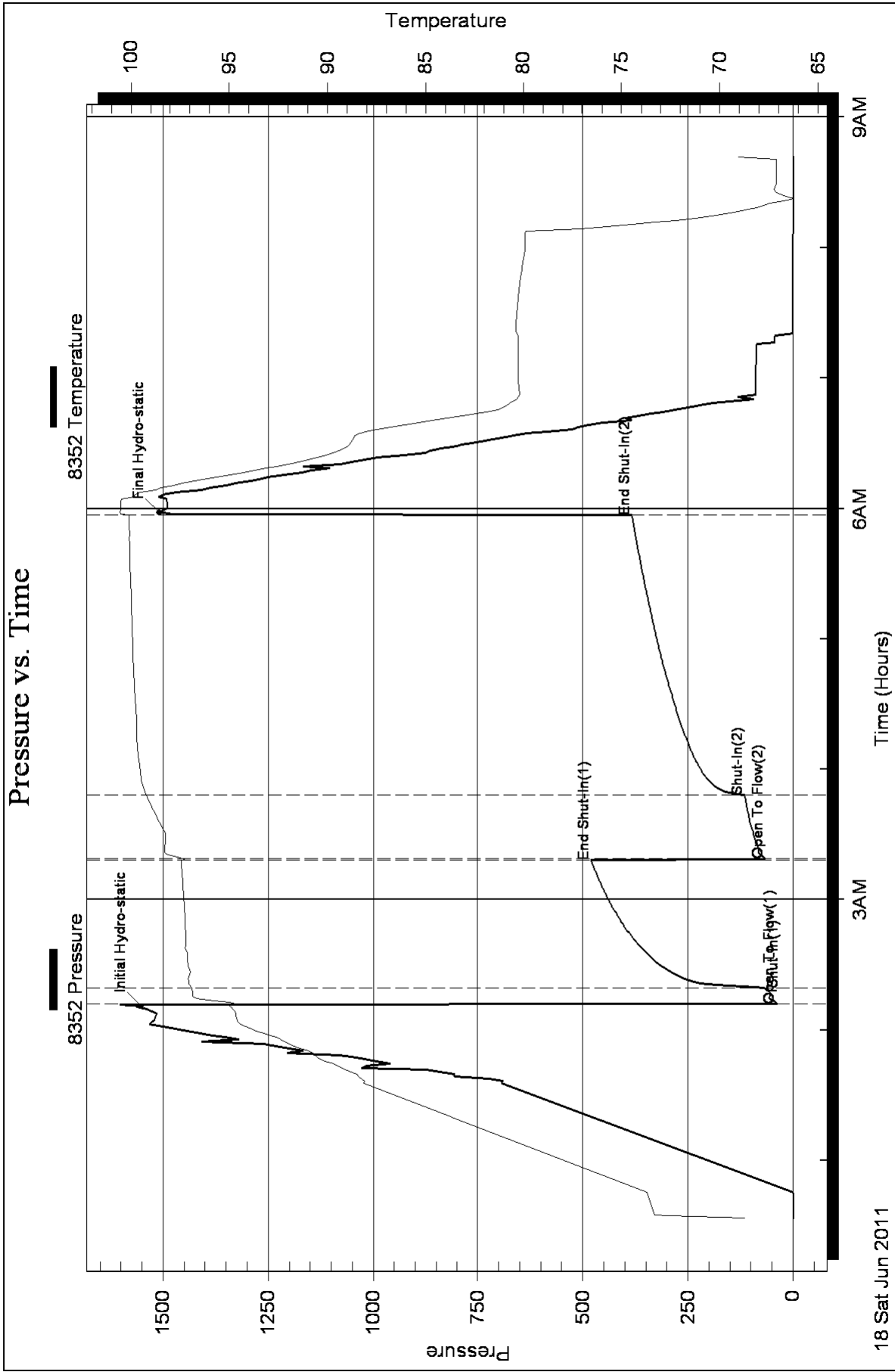
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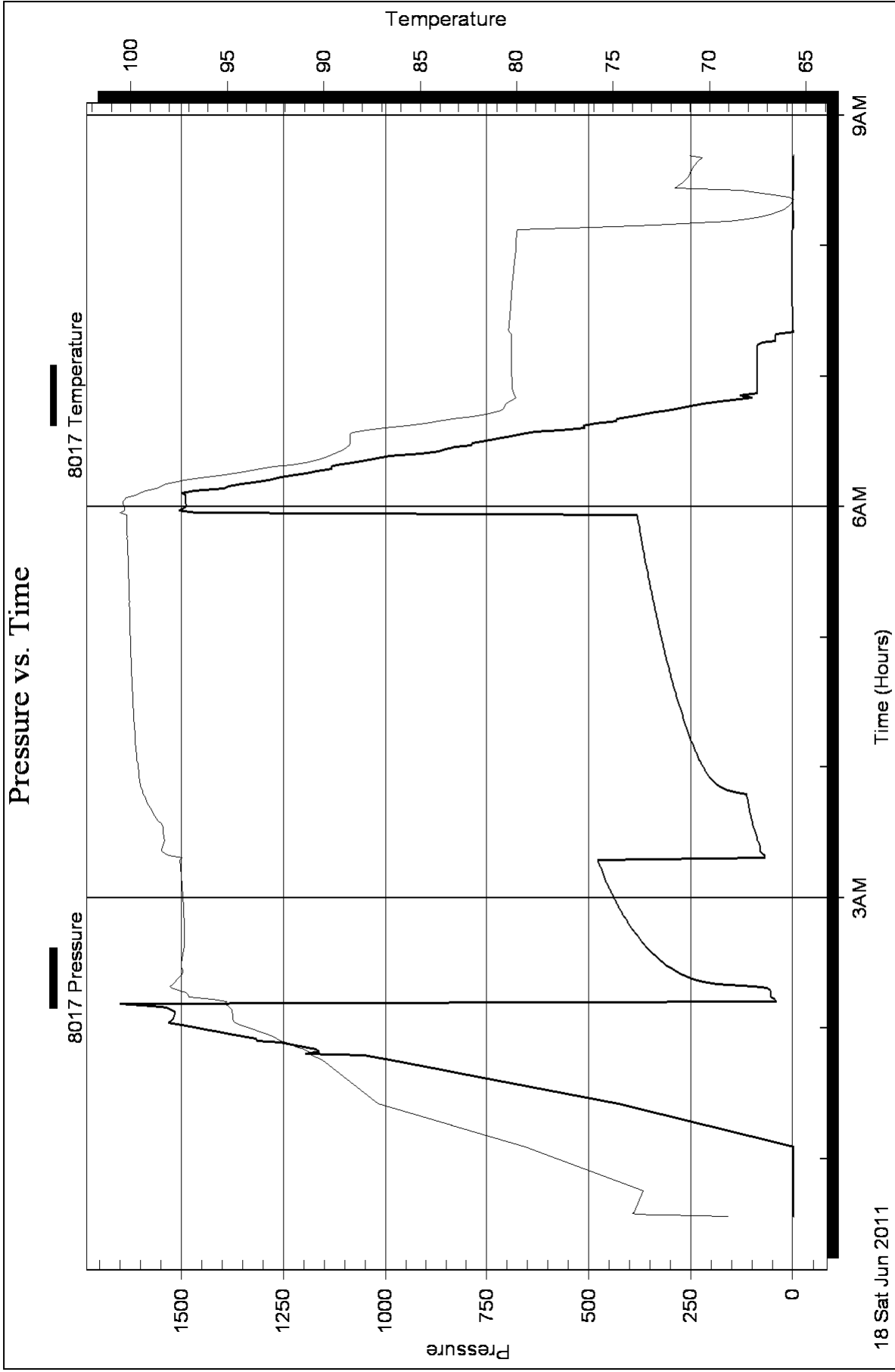
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data-g=1/4cf o=200ml w =1400ml pressure=200lbs





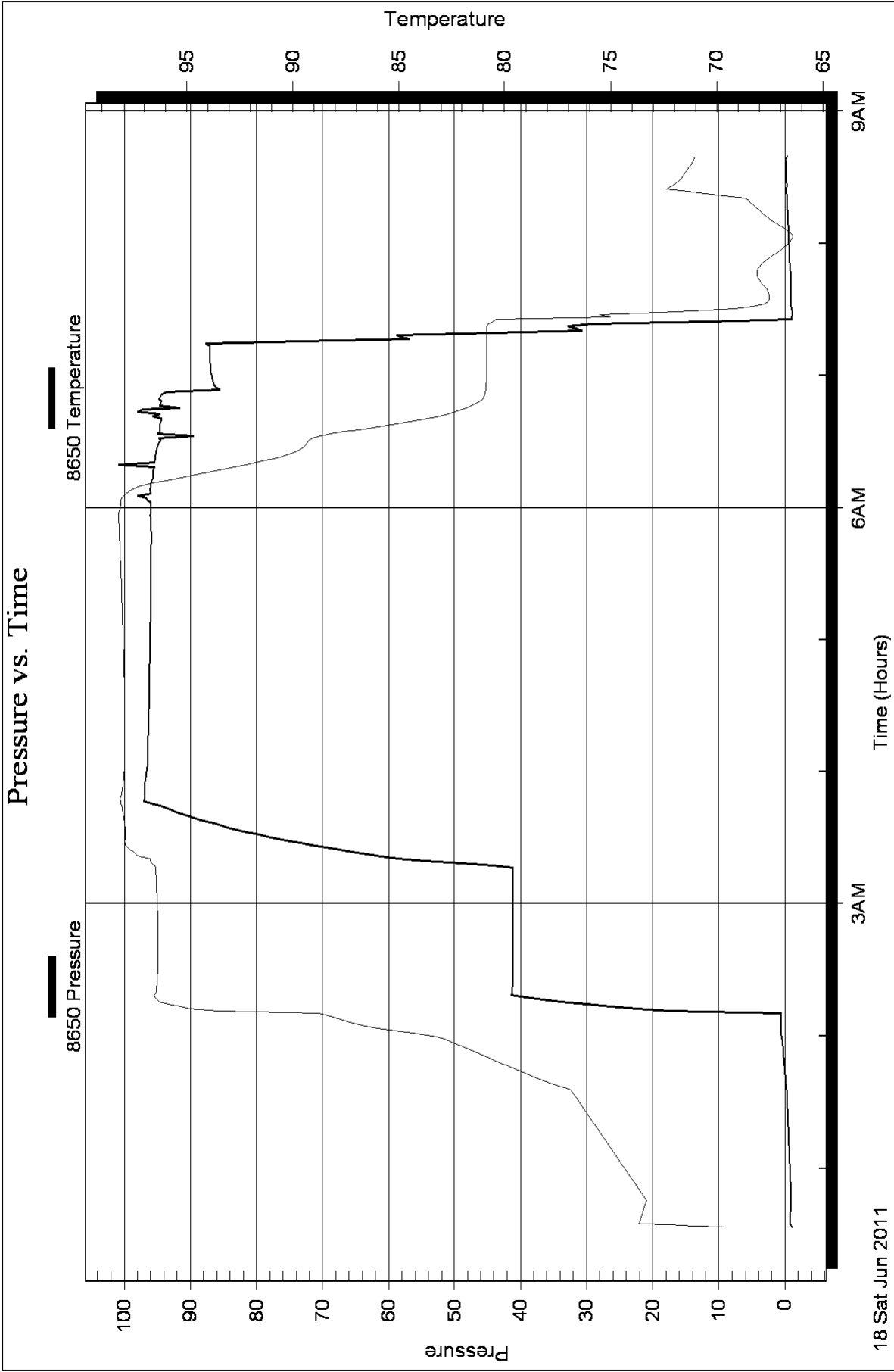
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Fluid

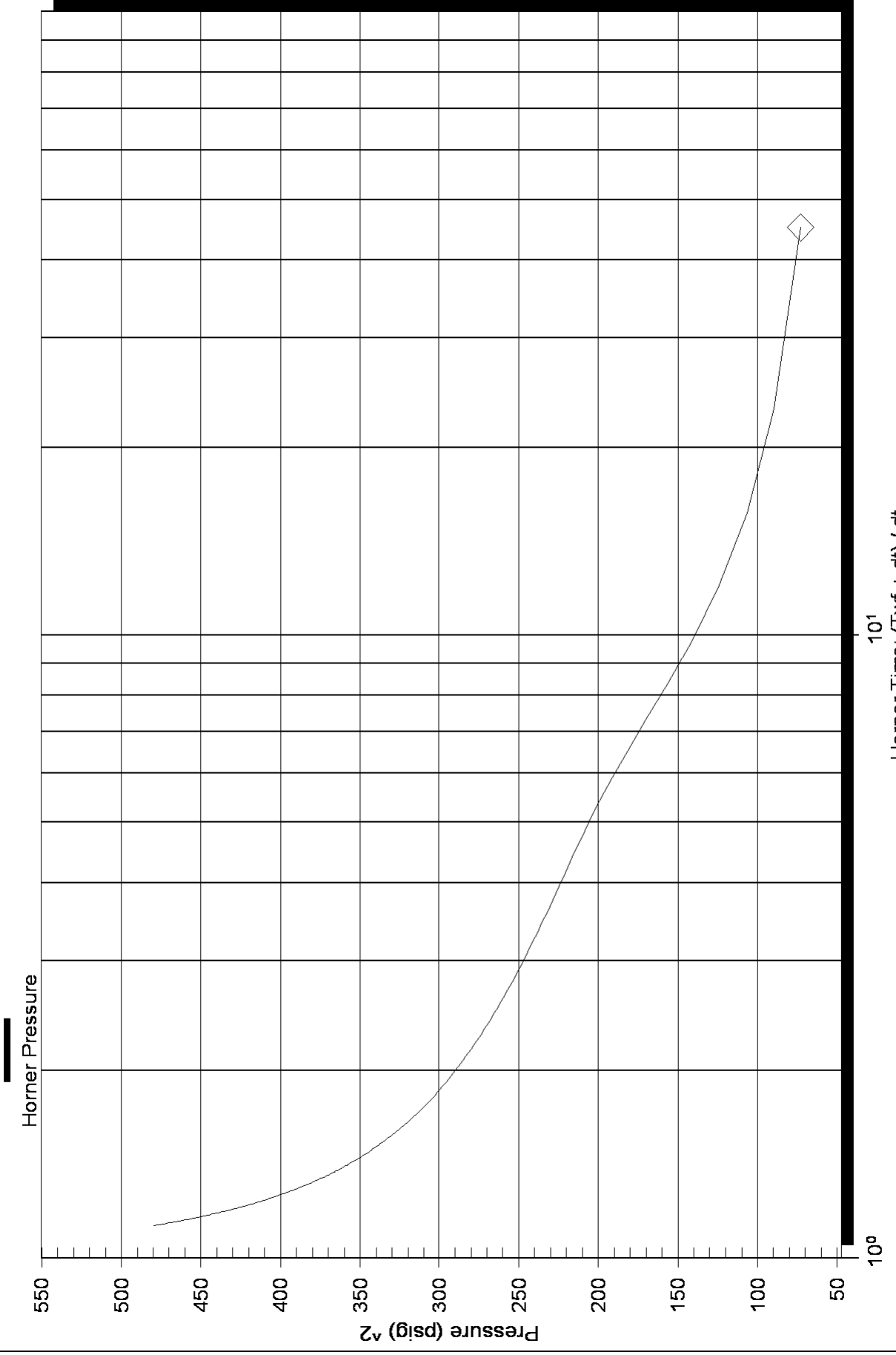
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36-15s-16 Ellis

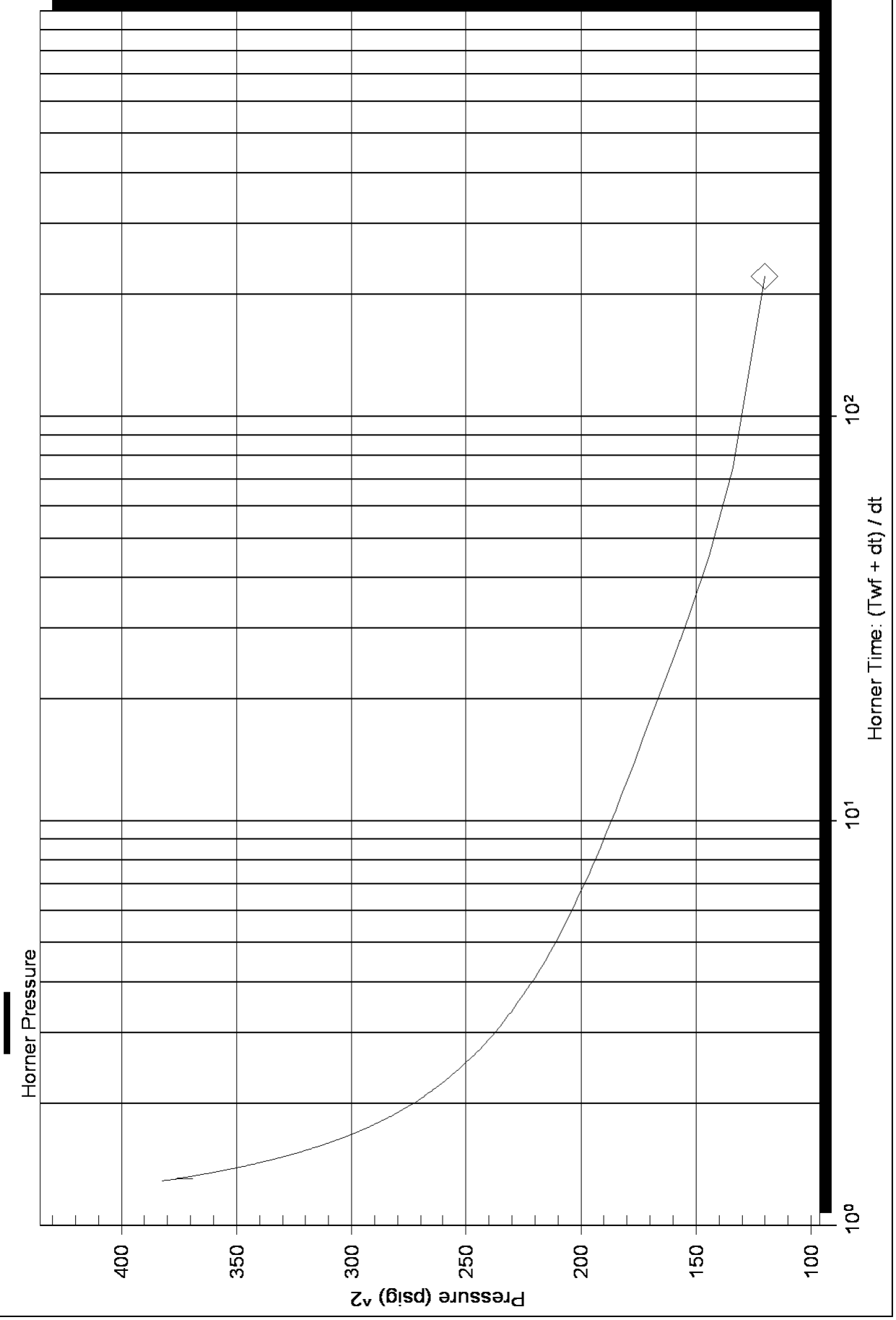
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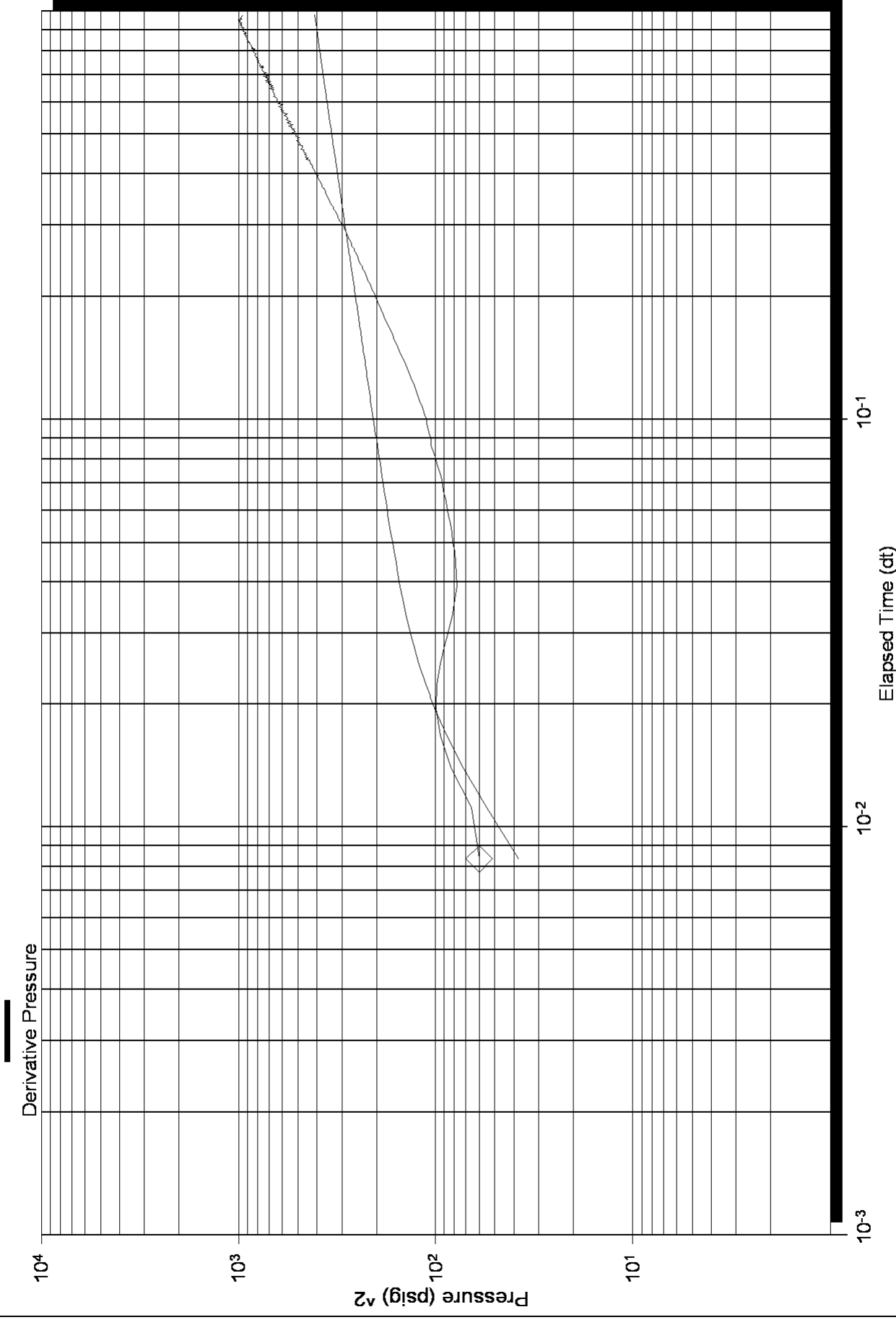
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

