



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc,**

1515 Wynkoop St, Ste 700
Denver CO, 80202

ATTN: Clayton Camozzi

21-15S-16W

Scurlock #1-21

Start Date: 2011.03.28 @ 09:40:30

End Date: 2011.03.28 @ 16:38:00

Job Ticket #: 42805 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

Samuel Gary Jr. & Ass. Inc,
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 Denver CO, 80202
 ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
 Job Ticket: 42805 **DST#: 1**
 Test Start: 2011.03.28 @ 09:40:30

GENERAL INFORMATION:

Formation: **Lancing C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:57:00
 Time Test Ended: 16:38:00
 Interval: **3230.00 ft (KB) To 3268.00 ft (KB) (TVD)**
 Total Depth: 3268.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Cody/Brett
 Unit No: 47
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

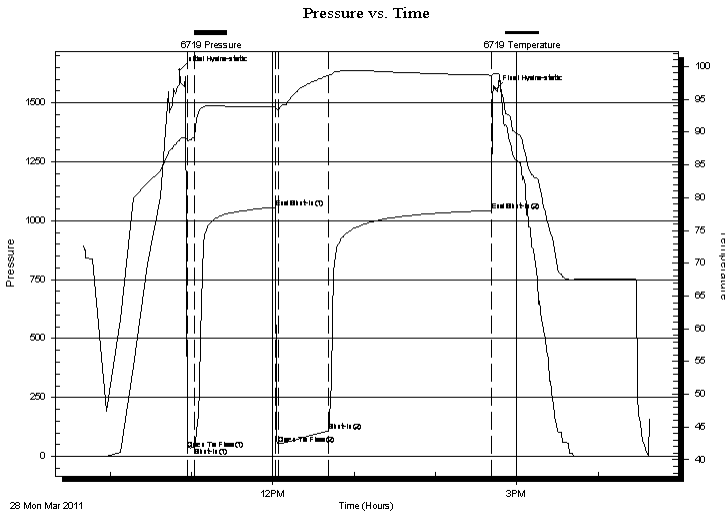
Serial #: 6719

Inside

Press @ Run Depth: 108.07 psig @ 3231.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.28 End Date: 2011.03.28 Last Calib.: 2011.03.28
 Start Time: 09:40:35 End Time: 16:37:59 Time On Btm: 2011.03.28 @ 10:51:30
 Time Off Btm: 2011.03.28 @ 14:44:30

TEST COMMENT: 5min IF-B.O.B.-3Min
 60min ISI- Surface blow
 40min FF- B.O.B- 30Sec.
 120min FSI-B.O.B- 12Min

PRESSURE SUMMARY



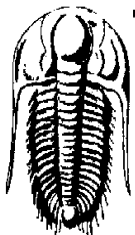
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.39	88.88	Initial Hydro-static
6	31.57	88.84	Open To Flow (1)
11	40.49	89.28	Shut-In(1)
71	1055.39	93.81	End Shut-In(1)
73	52.42	93.30	Open To Flow (2)
110	108.07	98.68	Shut-In(2)
230	1043.29	98.68	End Shut-In(2)
233	1556.86	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.84
180.00	G SWCO 40%G 10%W 50%O	2.52
0.00	360ft GIP	0.00

Gas Rates

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



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Scurlock #1-21
21-15S-16W
Job Ticket: 42805 **DST#: 1**
Test Start: 2011.03.28 @ 09:40:30

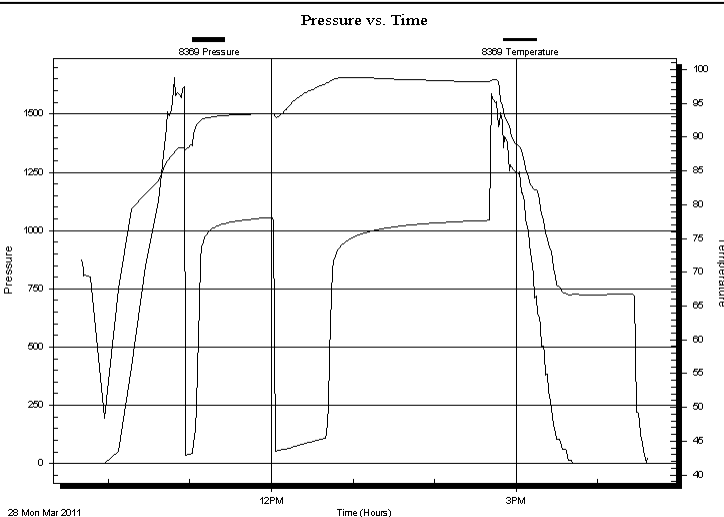
GENERAL INFORMATION:

Formation: Lancing C	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Cody/Brett
Time Tool Opened: 10:57:00	Unit No: 47
Time Test Ended: 16:38:00	Reference Elevations: 1870.00 ft (KB)
Interval: 3230.00 ft (KB) To 3268.00 ft (KB) (TVD)	1862.00 ft (CF)
Total Depth: 3268.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 8369 Outside

Press @ Run Depth: psig @ 3231.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2011.03.28	End Date: 2011.03.28
Start Time: 09:40:22	End Time: 16:37:16
Last Calib.: 2011.03.28	Time On Btm:
Time Off Btm:	

TEST COMMENT: 5min IF-B.O.B.-3Min
60min ISI- Surface blow
40min FF- B.O.B- 30Sec.
120min FSI-B.O.B- 12Min



PRESSURE SUMMARY

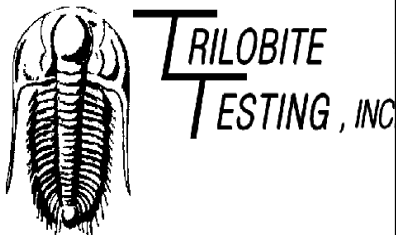
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.84
180.00	GSWCO 40%G 10%W 50%O	2.52
0.00	360ft GIP	0.00

Gas Rates

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



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Scurlock #1-21

21-15S-16W

Job Ticket: 42805

DST#: 1

Test Start: 2011.03.28 @ 09:40:30

GENERAL INFORMATION:

Formation: **Lancing C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:00

Time Test Ended: 16:38:00

Test Type: Conventional Bottom Hole

Tester: Cody/Brett

Unit No: 47

Interval: **3230.00 ft (KB) To 3268.00 ft (KB) (TVD)**

Total Depth: 3268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1870.00 ft (KB)

1862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319

Fluid

Press @ RunDepth: psig @ 3201.00 ft (KB)

Start Date: 2011.03.28

End Date:

2011.03.28

Start Time: 09:40:51

End Time:

16:37:45

Capacity: 8000.00 psig

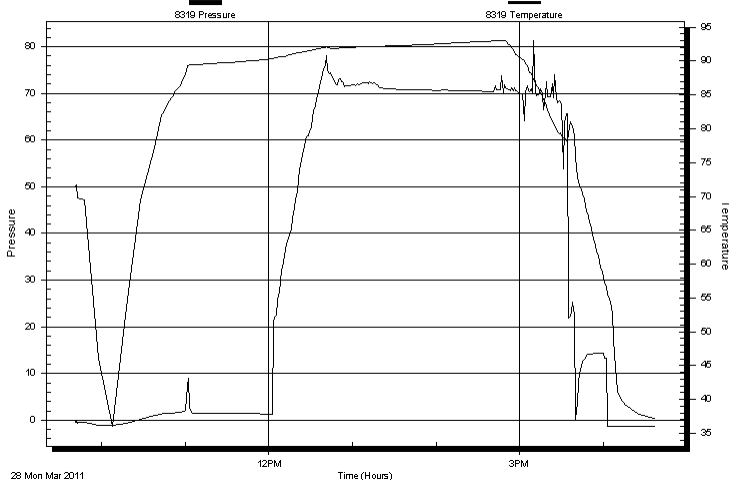
Last Calib.: 2011.03.28

Time On Btm:

Time Off Btm:

TEST COMMENT: 5min IF-B.O.B.-3Min
60min ISI- Surface blow
40min FF- B.O.B- 30Sec.
120min FSI-B.O.B- 12Min

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.84
180.00	GSWCO 40%G 10%W 50%O	2.52
0.00	360ft GIP	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. & Ass. Inc,
1515 Wynkoop St, Ste 700
Denver CO, 80202
ATTN: Clayton Camozzi

Scurlock #1-21
21-15S-16W
Job Ticket: 42805 **DST#: 1**
Test Start: 2011.03.28 @ 09:40:30

Tool Information

Drill Pipe:	Length: 3230.00 ft	Diameter: 3.80 inches	Volume: 45.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 46000.00 lb
			<u>Total Volume: 45.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3230.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	72.00 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	5.00			3201.00	
Recorder	0.00	8319	Fluid	3201.00	
Shut In Tool	5.00			3206.00	
Sampler	3.00			3209.00	
Hydraulic tool	5.00			3214.00	
Jars	5.00			3219.00	
Safety Joint	2.00			3221.00	
Packer	5.00			3226.00	34.00 Bottom Of Top Packer
Packer	4.00			3230.00	
Stubb	1.00			3231.00	
Recorder	0.00	6719	Inside	3231.00	
Recorder	0.00	8369	Outside	3231.00	
Perforations	34.00			3265.00	
Bullnose	3.00			3268.00	38.00 Bottom Packers & Anchor

Total Tool Length: 72.00



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FLUID SUMMARY

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Job Ticket: 42805 **DST#: 1**
Test Start: 2011.03.28 @ 09:40:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 140000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

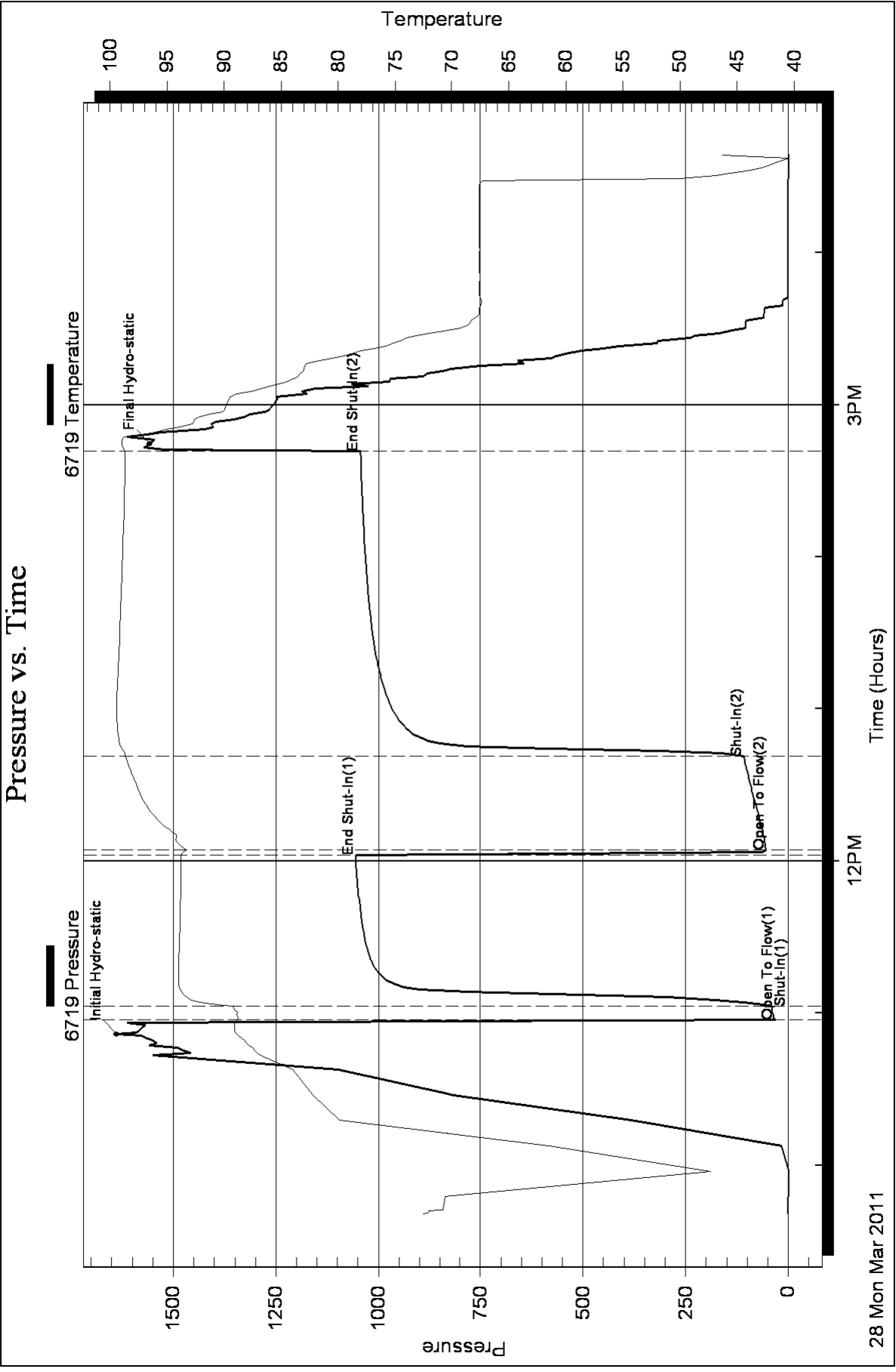
Recovery Information

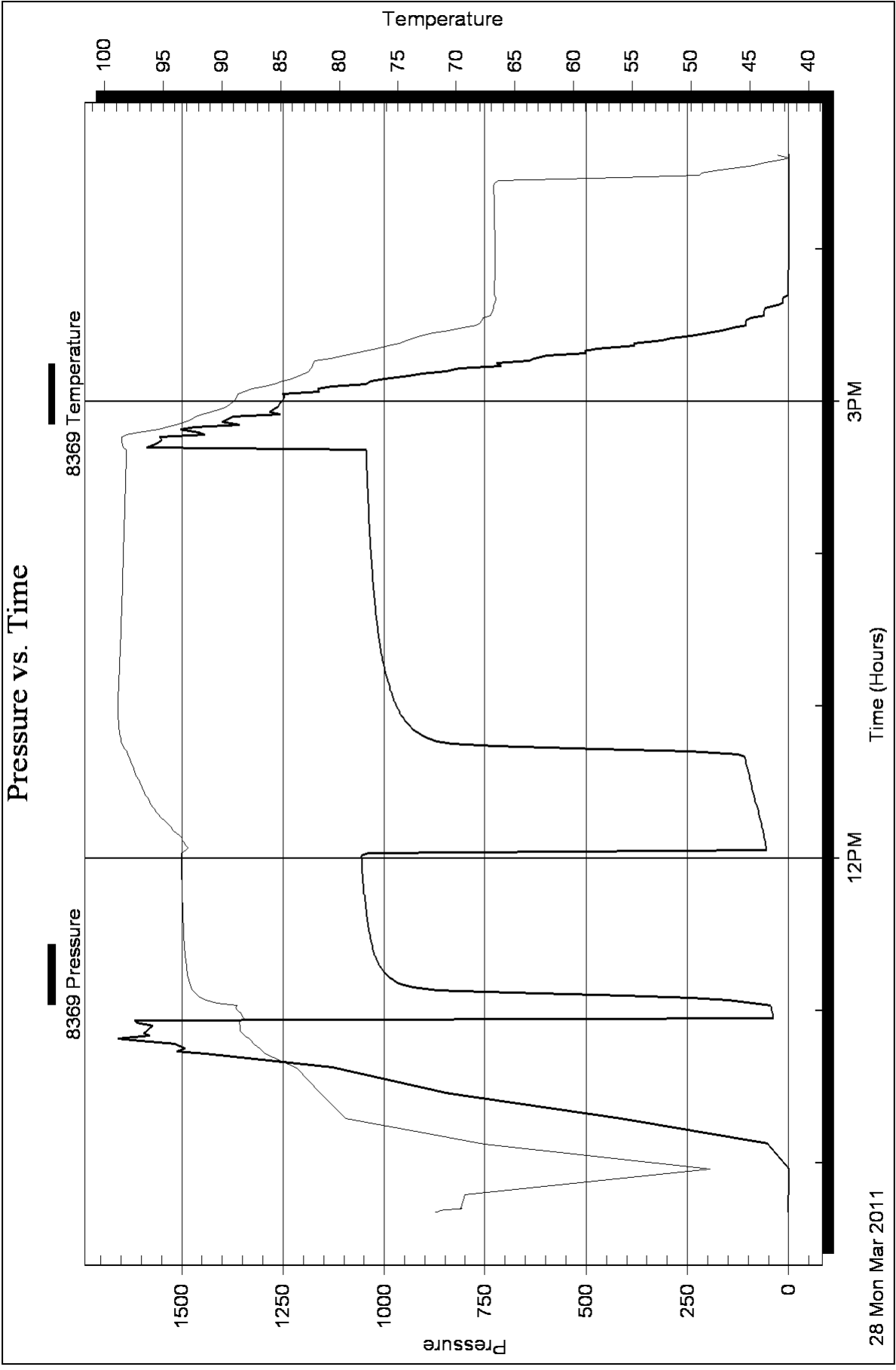
Recovery Table

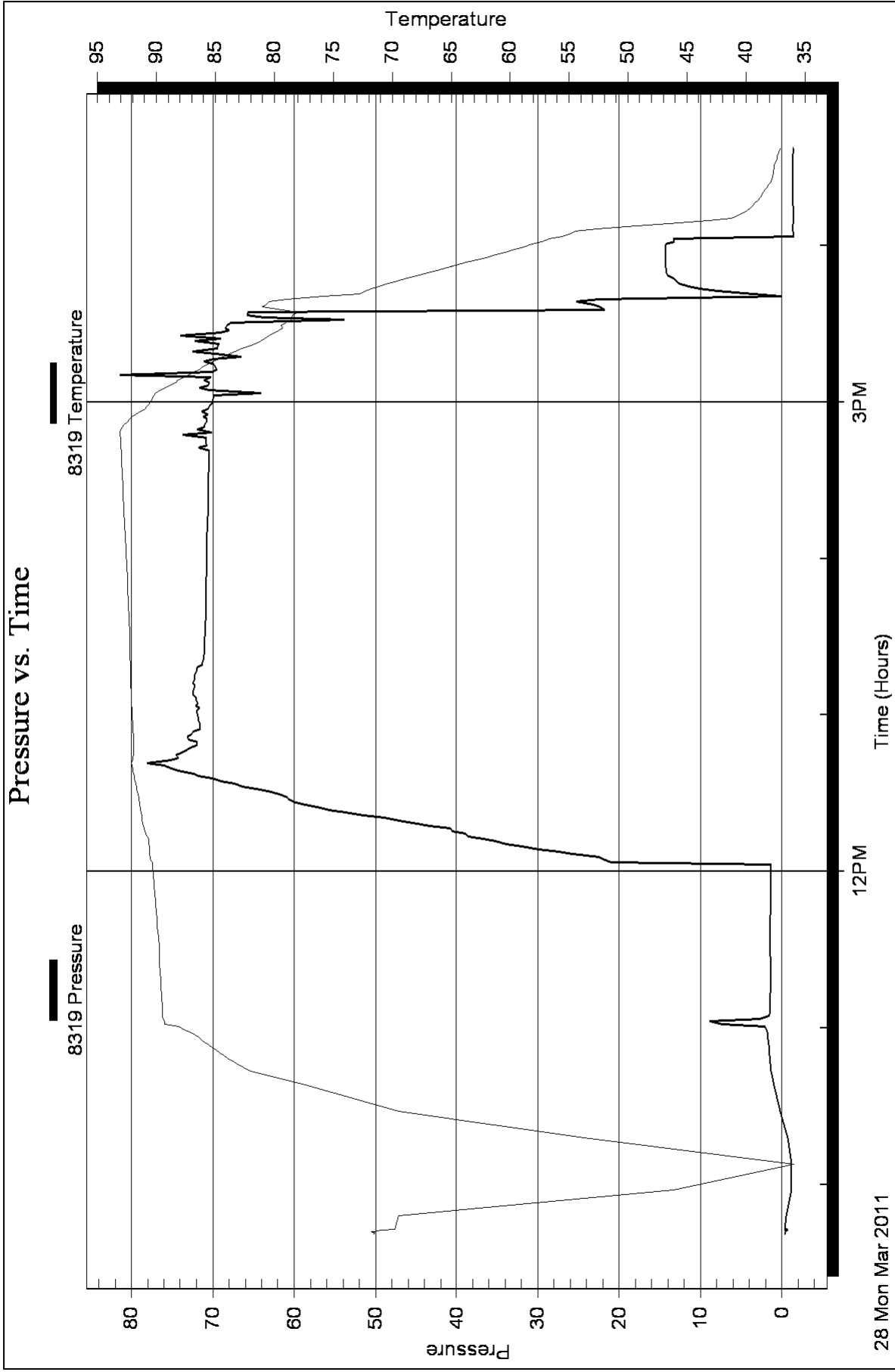
Length ft	Description	Volume bbl
60.00	V SOGMCW 20%G 30%M 5% O 45%W	0.842
180.00	G SWCO 40%G 10%W 50%O	2.525
0.00	360ft GIP	0.000

Total Length: 240.00 ft Total Volume: 3.367 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Drillpipe Water RW .11 @ 40 F Chloridees 140000
 Sampler Data: 3000ml Oil 1000mlGas 380 PSI

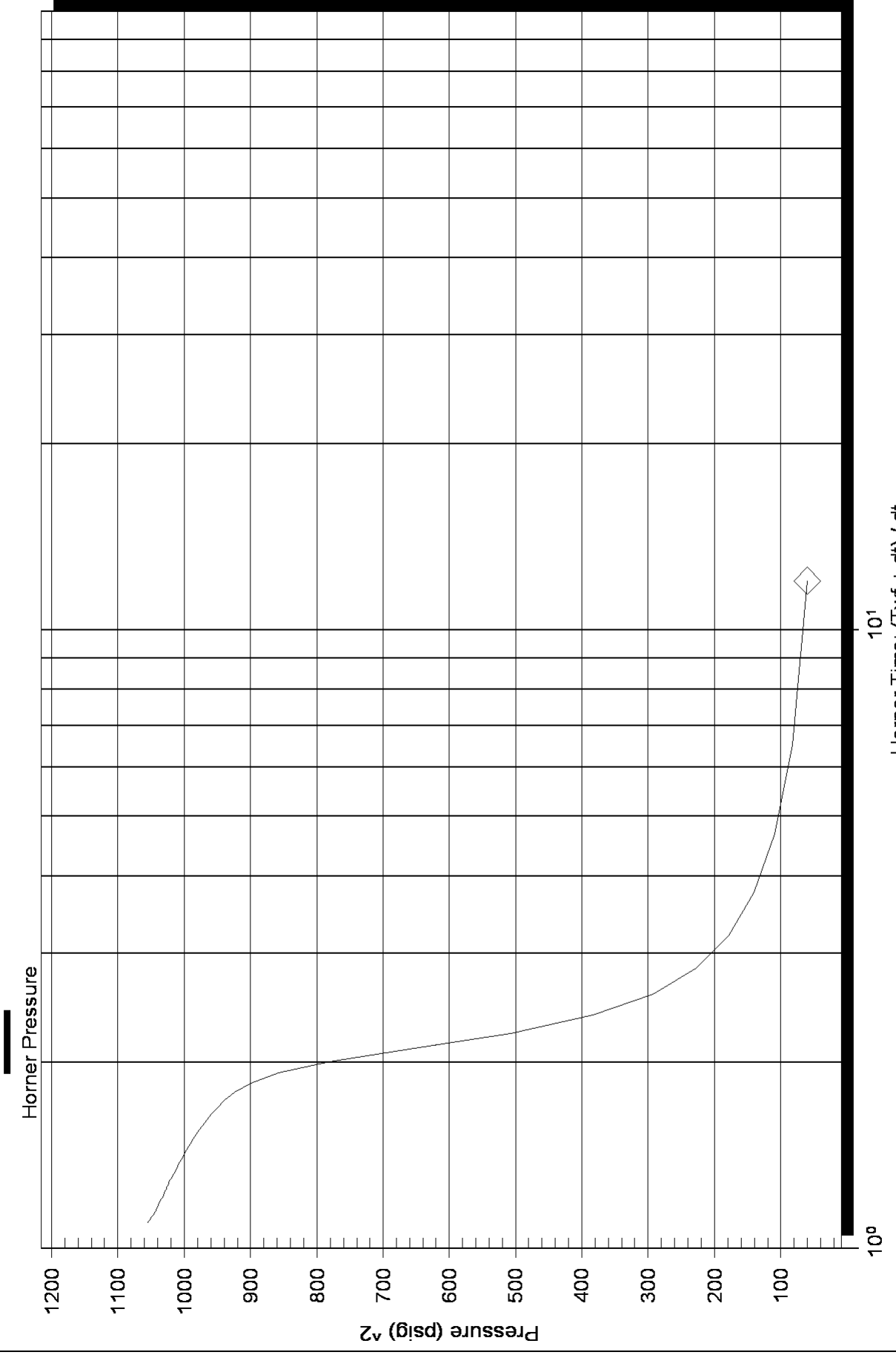
Pressure vs. Time



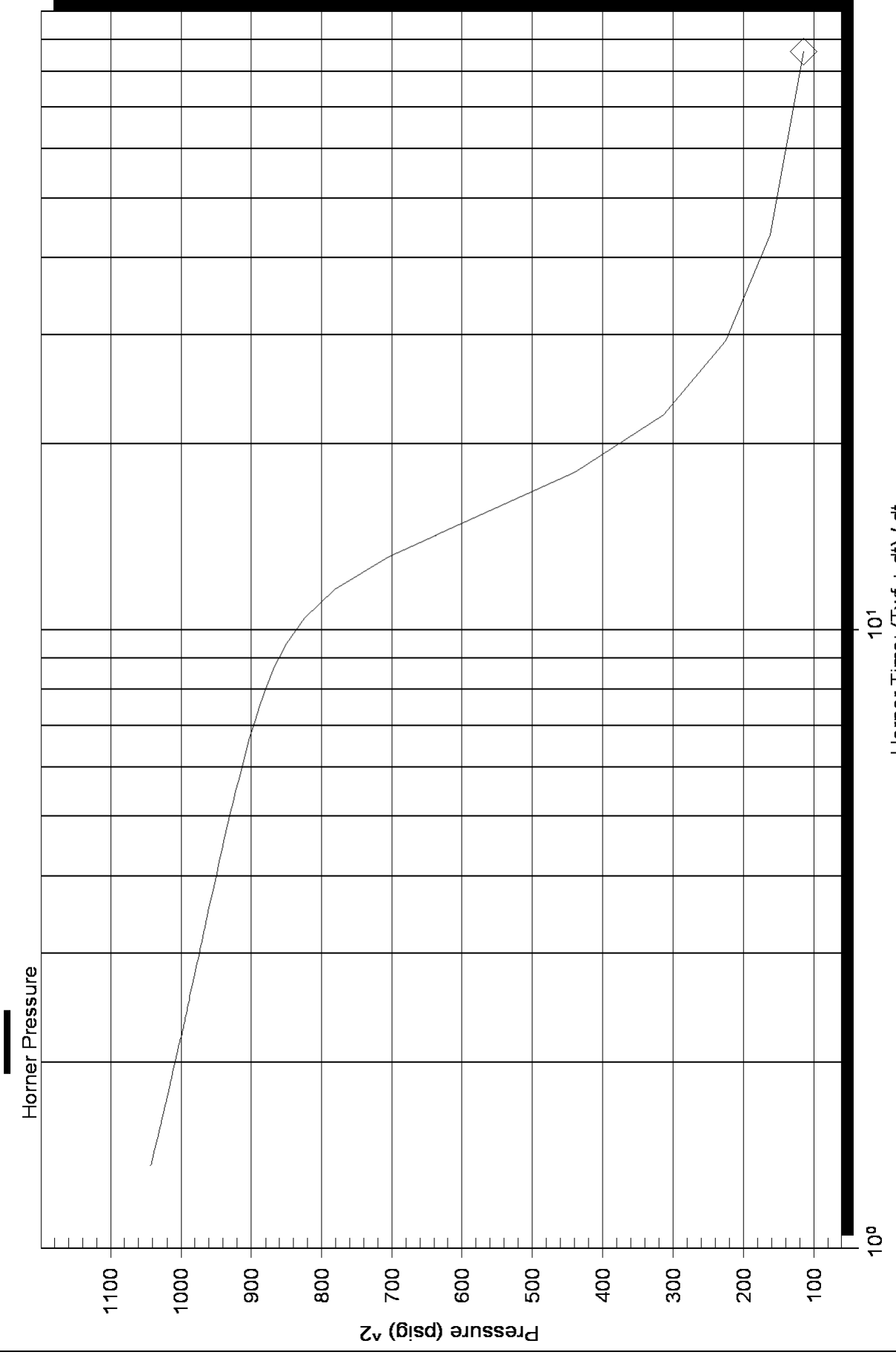




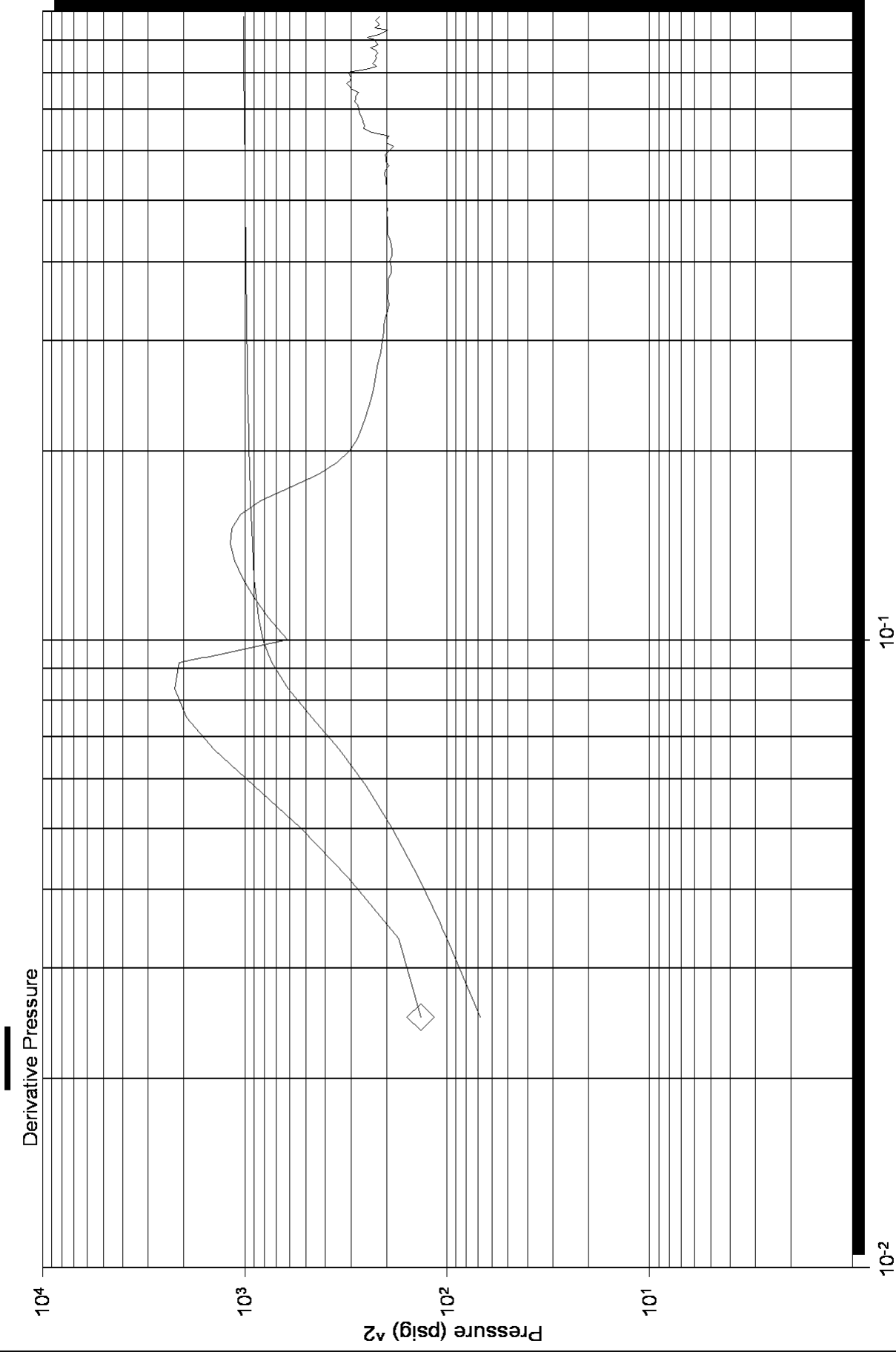
Homer Plot



Homer Plot



Log-Log and Pseudo-Log-Derivative



Log-Log and Pseudo-Derivative

