



DRILL STEM TEST REPORT

Prepared For: **Ares Energy**

405 N Marienfield Ste 250
Midland, TX 79701

ATTN: Justin Carter

McCandless 15-3

15-23S-13W Stafford

Start Date: 2014.01.28 @ 09:06:30

End Date: 2014.01.28 @ 17:34:45

Job Ticket #: 51953 DST #: 3

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

Printed: 2014.01.28 @ 17:51:07

Ares Energy
15-23S-13W Stafford
McCandless 15-3
DST # 3
Simpson
2014.01.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ares Energy
 405 N Marienfield Ste 250
 Midland, TX 79701
 ATTN: Justin Carter

15-23S-13W Stafford
McCandless 15-3
 Job Ticket: 51953 **DST#: 3**
 Test Start: 2014.01.28 @ 09:06:30

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:33:00
 Tester: Leal Cason
 Time Test Ended: 17:34:45
 Unit No: 74
 Interval: **4176.00 ft (KB) To 4215.00 ft (KB) (TVD)**
 Reference Elevations: 1934.00 ft (KB)
 Total Depth: 4215.00 ft (KB) (TVD) 1926.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

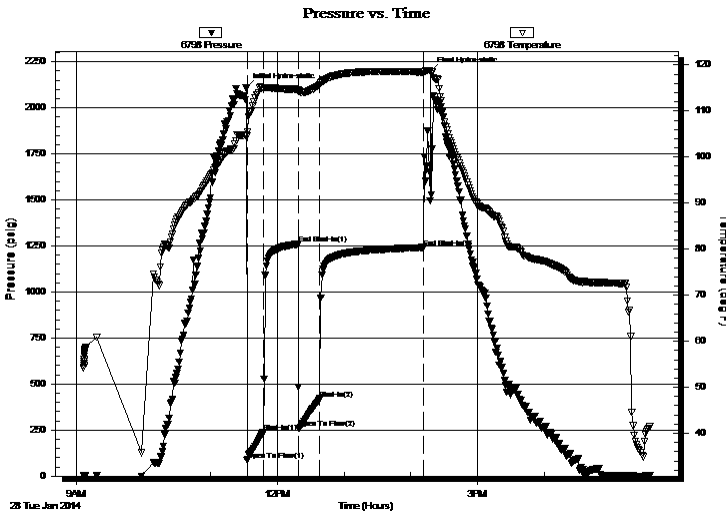
Serial #: 6798

Inside

Press @ Run Depth: 419.55 psig @ 4177.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.28 End Date: 2014.01.28 Last Calib.: 2014.01.28
 Start Time: 09:06:31 End Time: 17:34:45 Time On Btm: 2014.01.28 @ 11:32:15
 Time Off Btm: 2014.01.28 @ 14:17:45

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
 IS: Blow Back Built to BOB in 5 minutes
 FF: Strong Blow , BOB in 45 seconds
 FS: Blow Back Built to 6 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.23	104.86	Initial Hydro-static
1	84.66	104.66	Open To Flow (1)
16	236.03	115.03	Shut-In(1)
47	1259.80	114.71	End Shut-In(1)
48	258.94	114.36	Open To Flow (2)
67	419.55	115.70	Shut-In(2)
160	1241.72	118.45	End Shut-In(2)
166	2198.04	118.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2590 GIP	0.00
819.00	GMCO 30%G 30%M 40%O	7.60
504.00	Gassy Oil 10%G 90%O	5.17

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

Ares Energy
405 N Marienfield Ste 250
Midland, TX 79701
ATTN: Justin Carter

15-23S-13W Stafford
McCandless 15-3
Job Ticket: 51953 **DST#: 3**
Test Start: 2014.01.28 @ 09:06:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4700.00 ppm		
Filter Cake: 0.02 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2590 GIP	0.000
819.00	GMCO 30%G 30%M 40%O	7.597
504.00	Gassy Oil 10%G 90%O	5.171

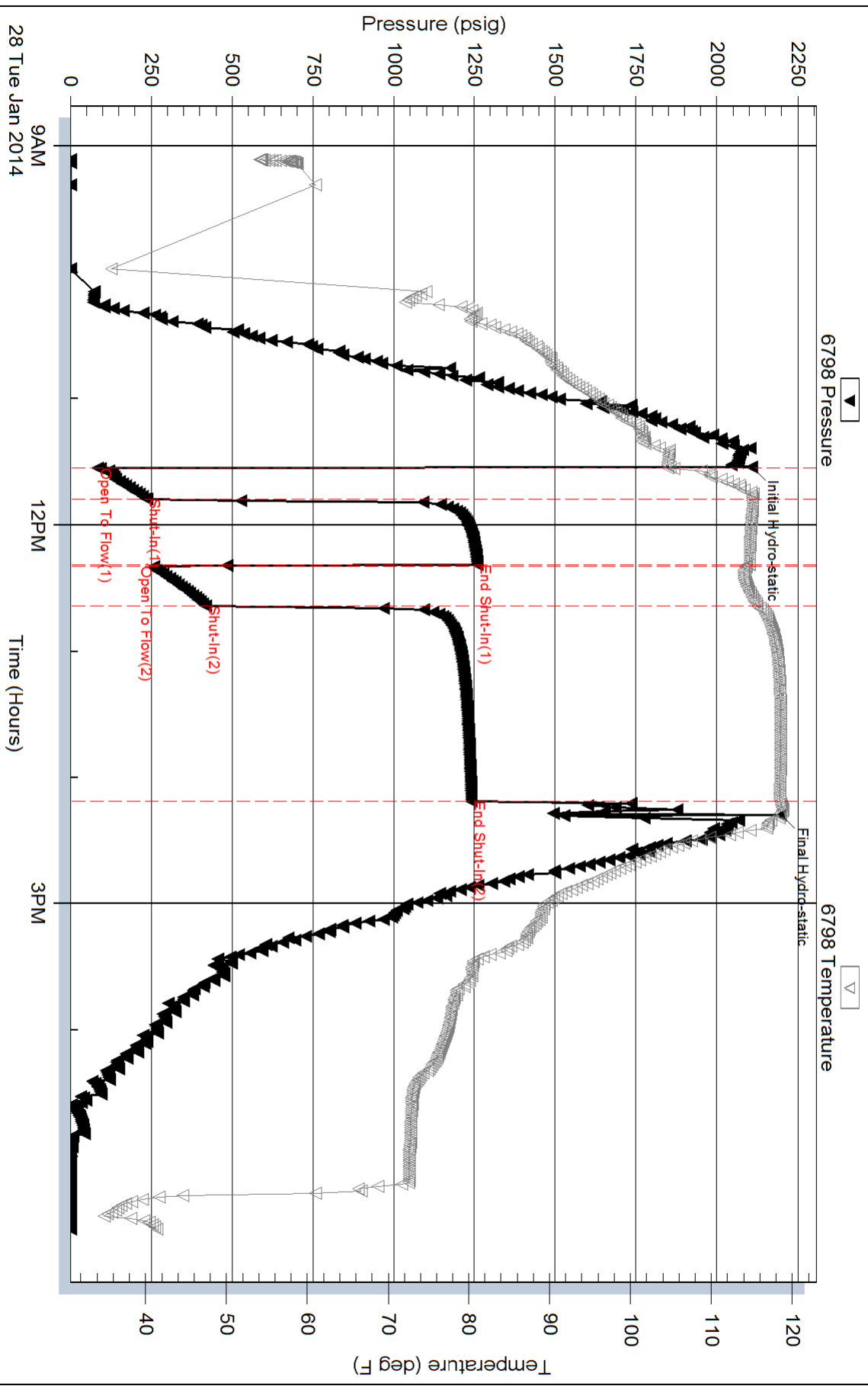
Total Length: 1323.00 ft Total Volume: 12.768 bbl

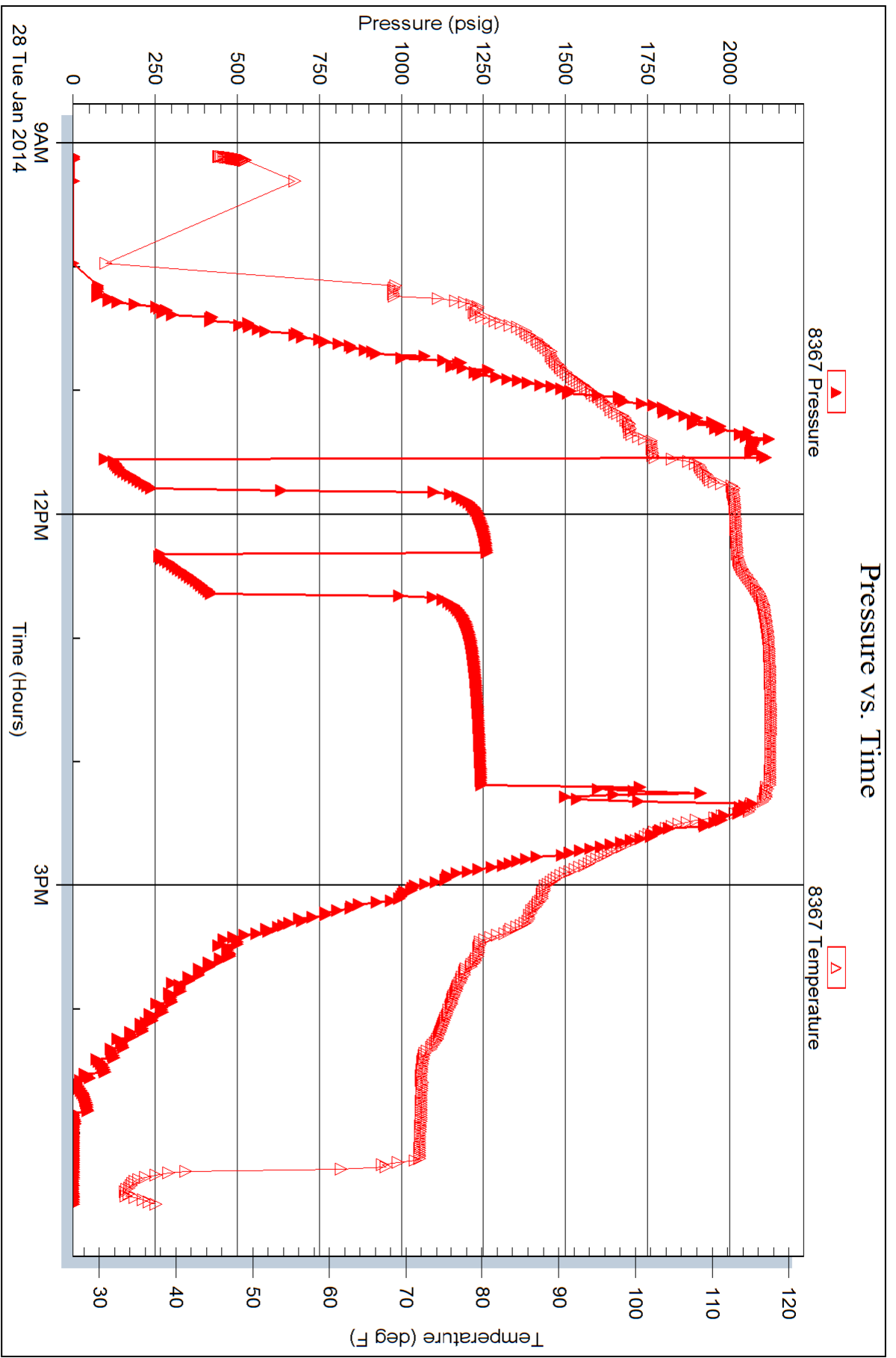
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

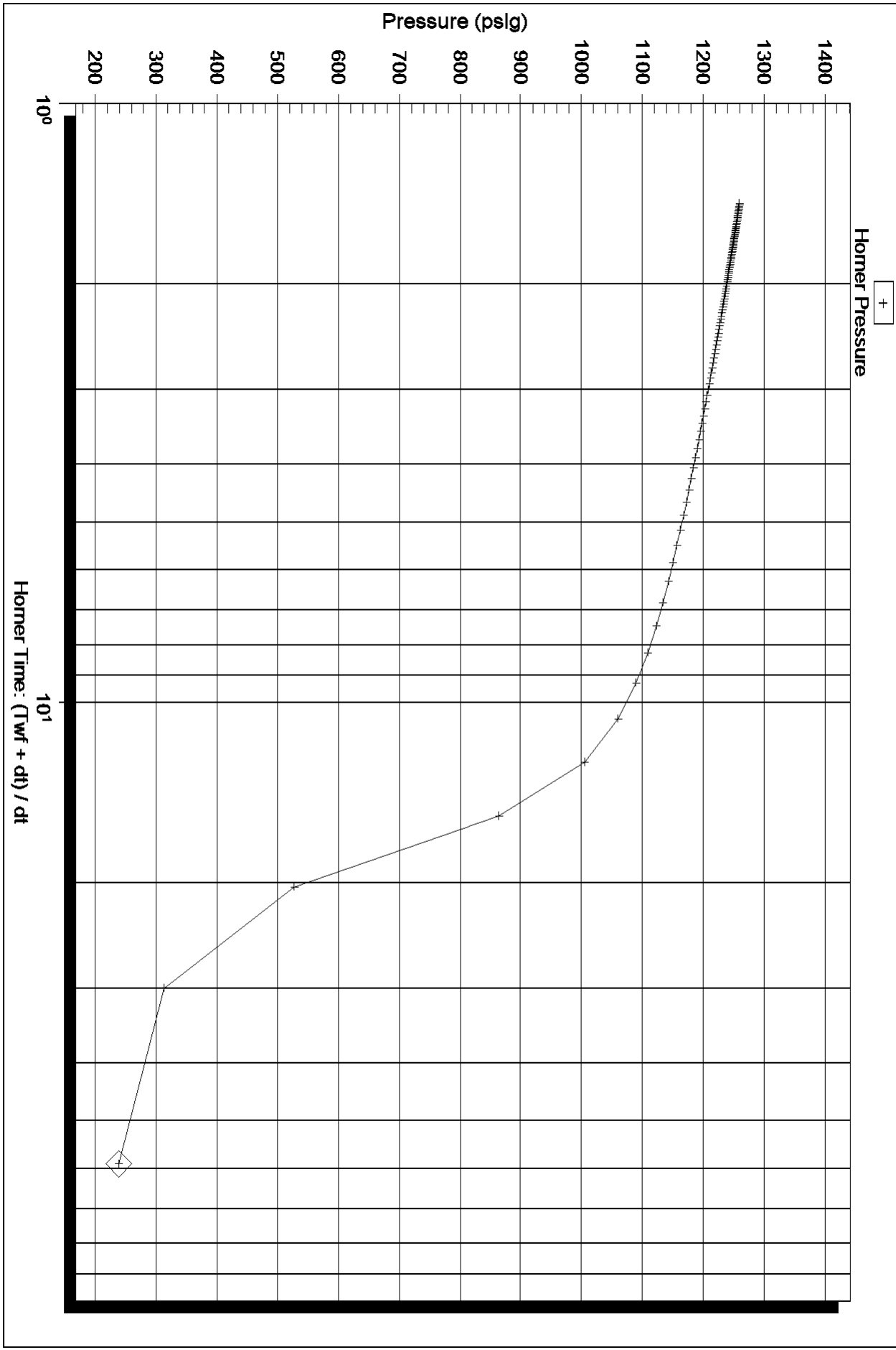
Recovery Comments: Gravity w as 38.8 @ 48 degrees

Pressure vs. Time





Horner Plot



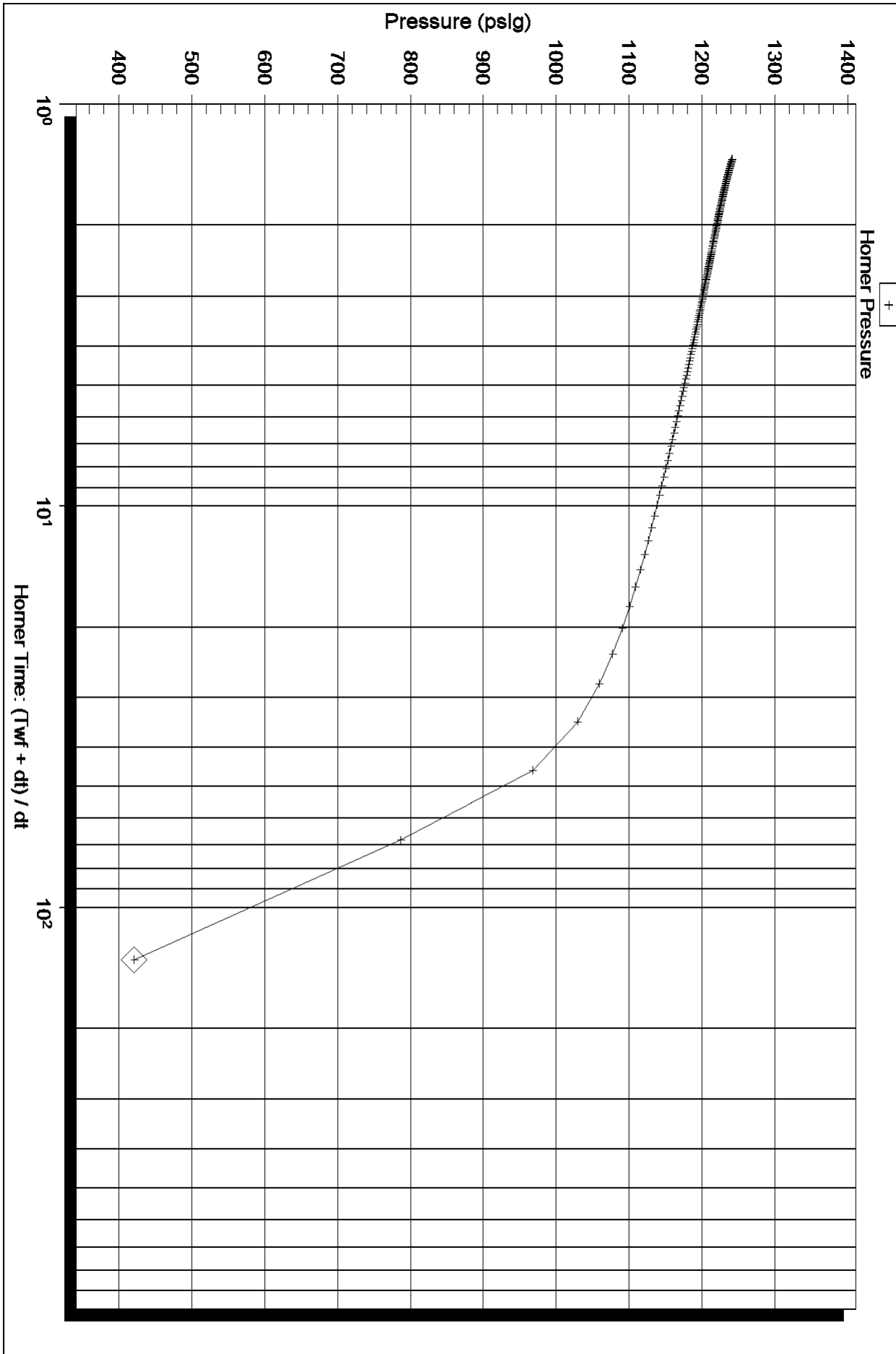
Serial Number: 6798 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



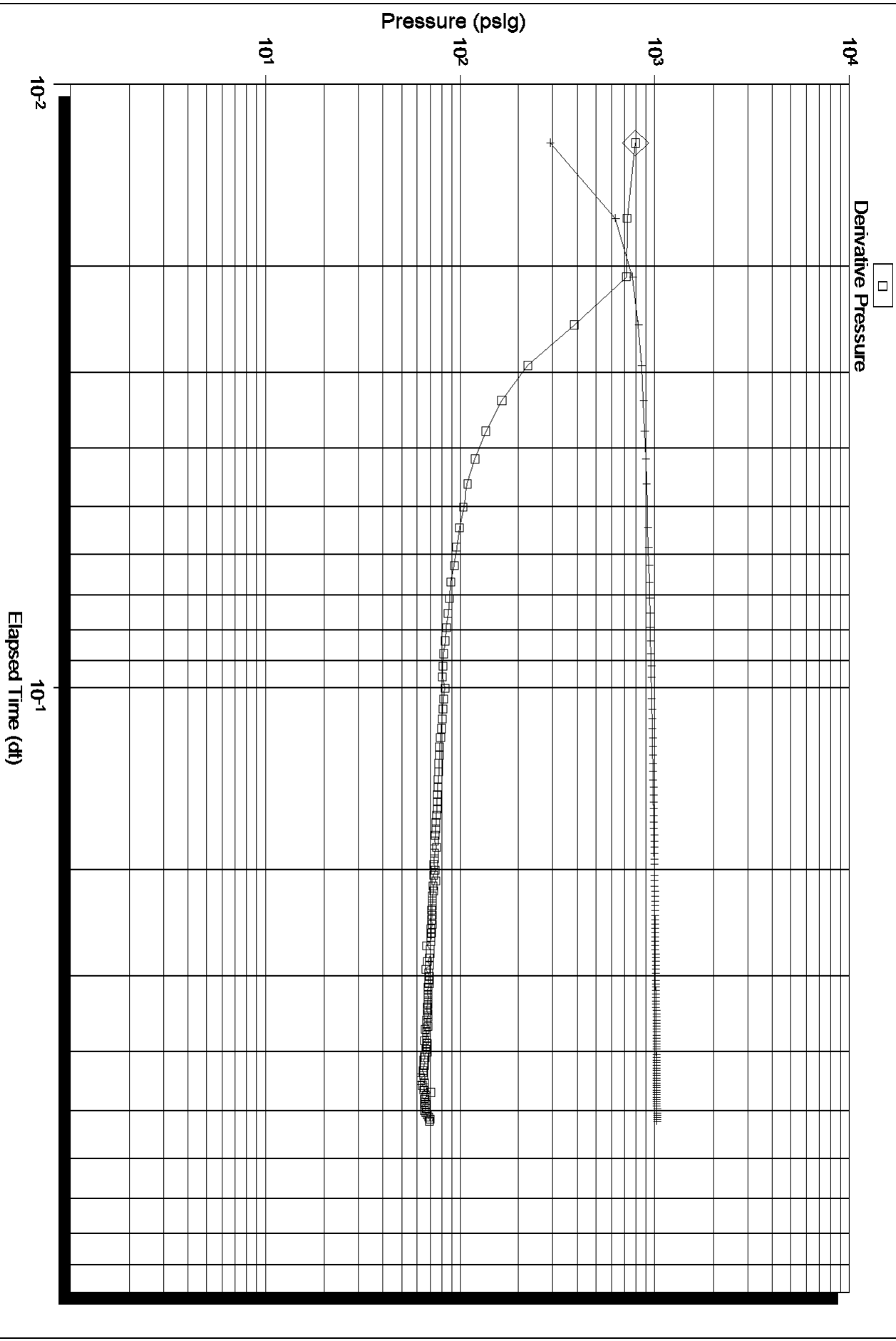
Serial Number: 6798 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

