



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

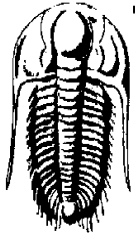
Start Date: 2014.01.27 @ 05:03:14

End Date: 2014.01.27 @ 17:35:29

Job Ticket #: 51952 DST #: 2

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

Printed: 2014.01.27 @ 17:56:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

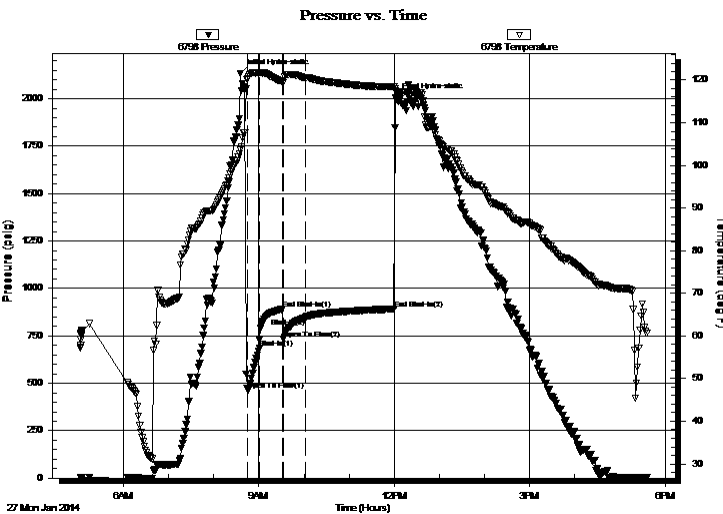
15-23S-13W Stafford
McCandless 15-3
 Job Ticket: 51952 **DST#: 2**
 Test Start: 2014.01.27 @ 05:03:14

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:44:59
 Time Test Ended: 17:35:29
 Interval: **4066.00 ft (KB) To 4098.00 ft (KB) (TVD)**
 Total Depth: 4098.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1934.00 ft (KB)
 1926.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6798 Inside
 Press @ RunDepth: 843.71 psig @ 4067.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.27 End Date: 2014.01.27 Last Calib.: 2014.01.27
 Start Time: 05:03:15 End Time: 17:35:29 Time On Btm: 2014.01.27 @ 08:35:29
 Time Off Btm: 2014.01.27 @ 12:01:29

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 5 minutes, Caught Sample, TSTM
 FSI: Blow Back Built to BOB in 4 minutes
 FF: Strong Blow , BOB in 30 seconds, GTS Immediate, TSTM
 FSI: Blow Back Built to BOB in 4 minutes, OTS in 60 minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.56	103.68	Initial Hydro-static
10	465.57	120.37	Open To Flow (1)
25	683.07	121.71	Shut-In(1)
56	890.46	119.64	End Shut-In(1)
57	732.31	119.46	Open To Flow (2)
87	843.71	120.51	Shut-In(2)
205	891.45	118.40	End Shut-In(2)
206	2007.07	117.41	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	252 GIP	0.00
1866.00	GSY MCO 30%G 20%M 50%O	18.34
1953.00	Gassy Oil 10%G 90%O	20.04

* Recovery from multiple tests

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



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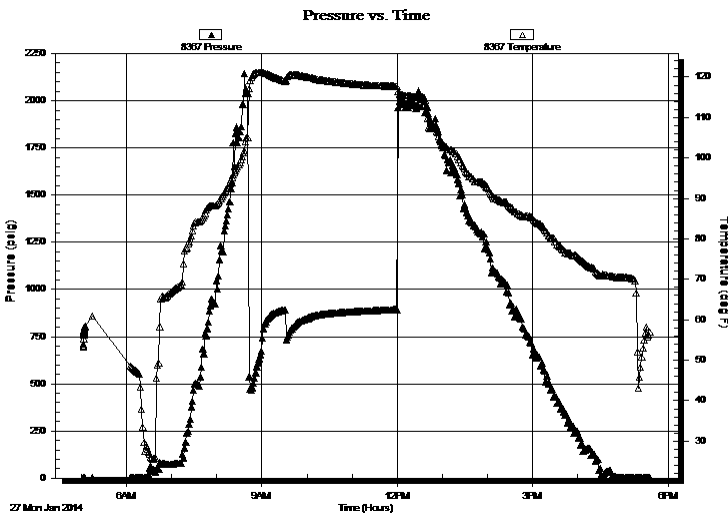
15-23S-13W Stafford
McCandless 15-3
Job Ticket: 51952 **DST#: 2**
Test Start: 2014.01.27 @ 05:03:14

GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:44:59
Time Test Ended: 17:35:29
Interval: **4066.00 ft (KB) To 4098.00 ft (KB) (TVD)**
Total Depth: 4098.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8367 Outside
Press @ RunDepth: psig @ 4067.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.27 End Date: 2014.01.27 Last Calib.: 2014.01.27
Start Time: 05:03:15 End Time: 17:35:29 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 5 minutes, Caught Sample, TSTM
FSI: Blow Back Built to BOB in 4 minutes
FF: Strong Blow , BOB in 30 seconds, GTS Immediate, TSTM
FSI: Blow Back Built to BOB in 4 minutes, OTS in 60 minutes



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 GIP	0.00
1866.00	GSY MCO 30%G 20%M 50%O	18.34
1953.00	Gassy Oil 10%G 90%O	20.04

Gas Rates

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

* Recovery from multiple tests



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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: 51952 **DST#: 2**
Test Start: 2014.01.27 @ 05:03:14

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.60 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5200.00 ppm		
Filter Cake: 0.02 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	252 GIP	0.000
1866.00	GSY MCO 30%G 20%M 50%O	18.340
1953.00	Gassy Oil 10%G 90%O	20.039

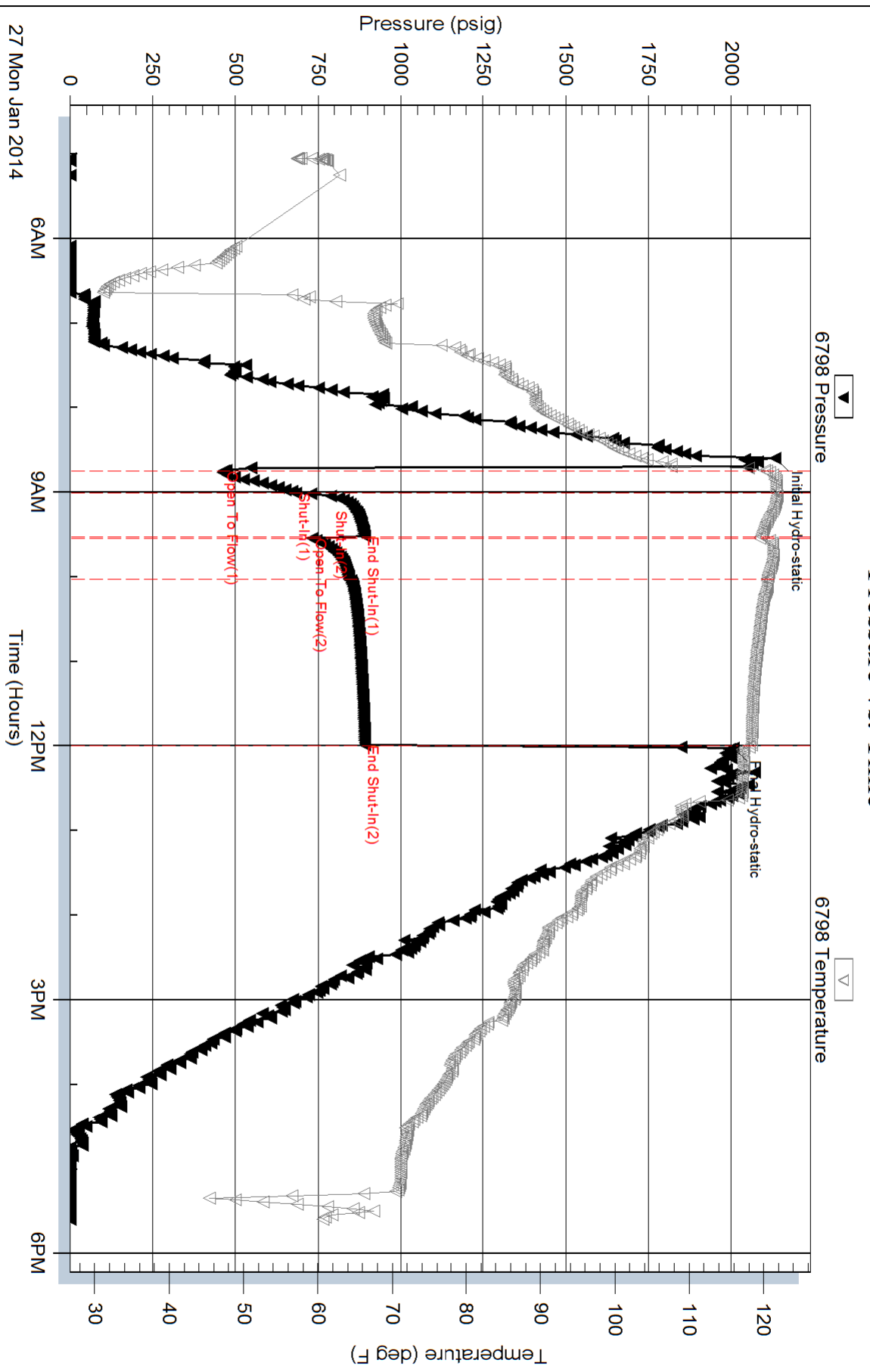
Total Length: 3819.00 ft Total Volume: 38.379 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity Was 38.2 @ 36 degrees

Pressure vs. Time

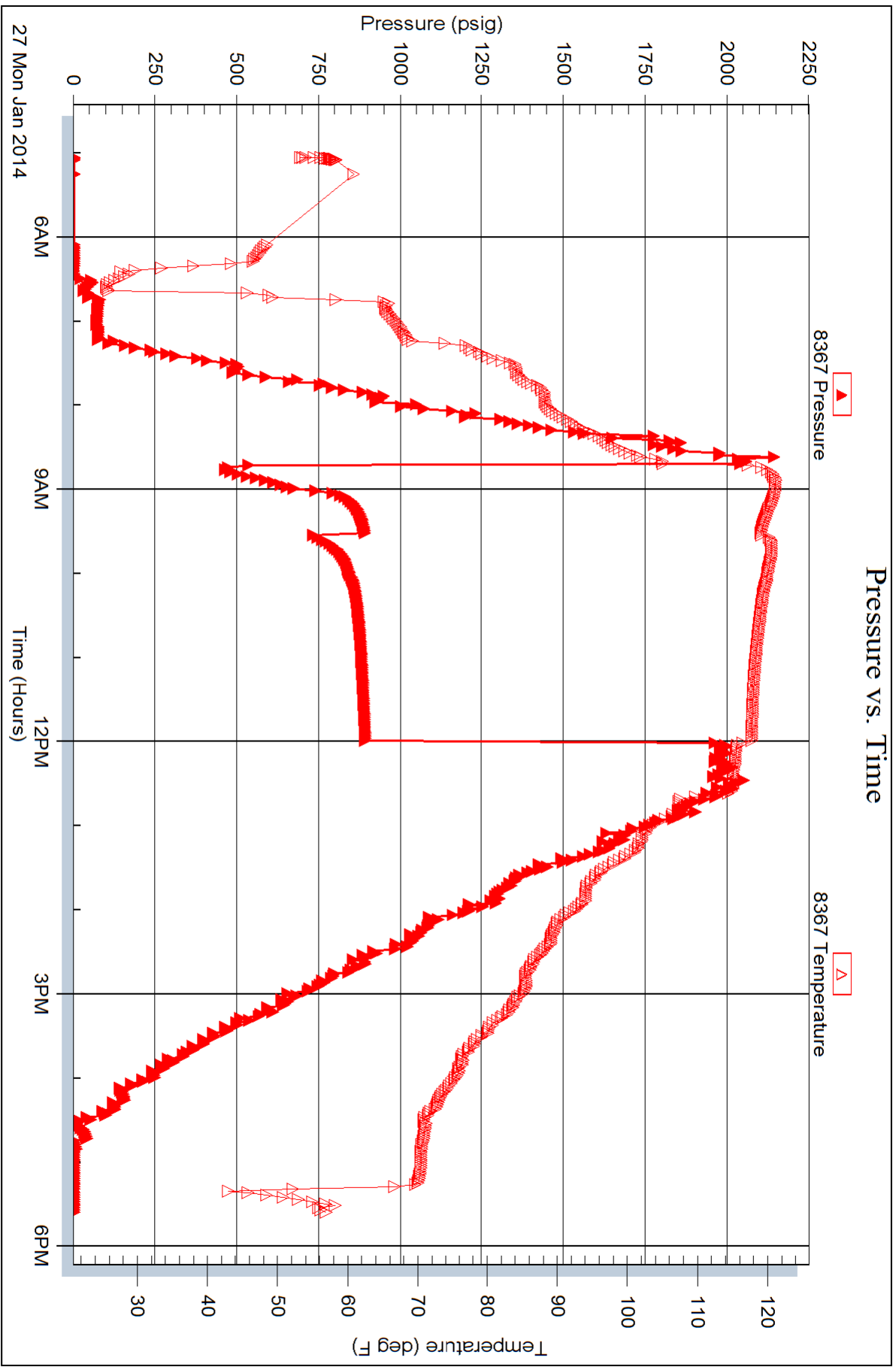


Serial #: 8367

Outside Ares Energy

McCandless 15-3

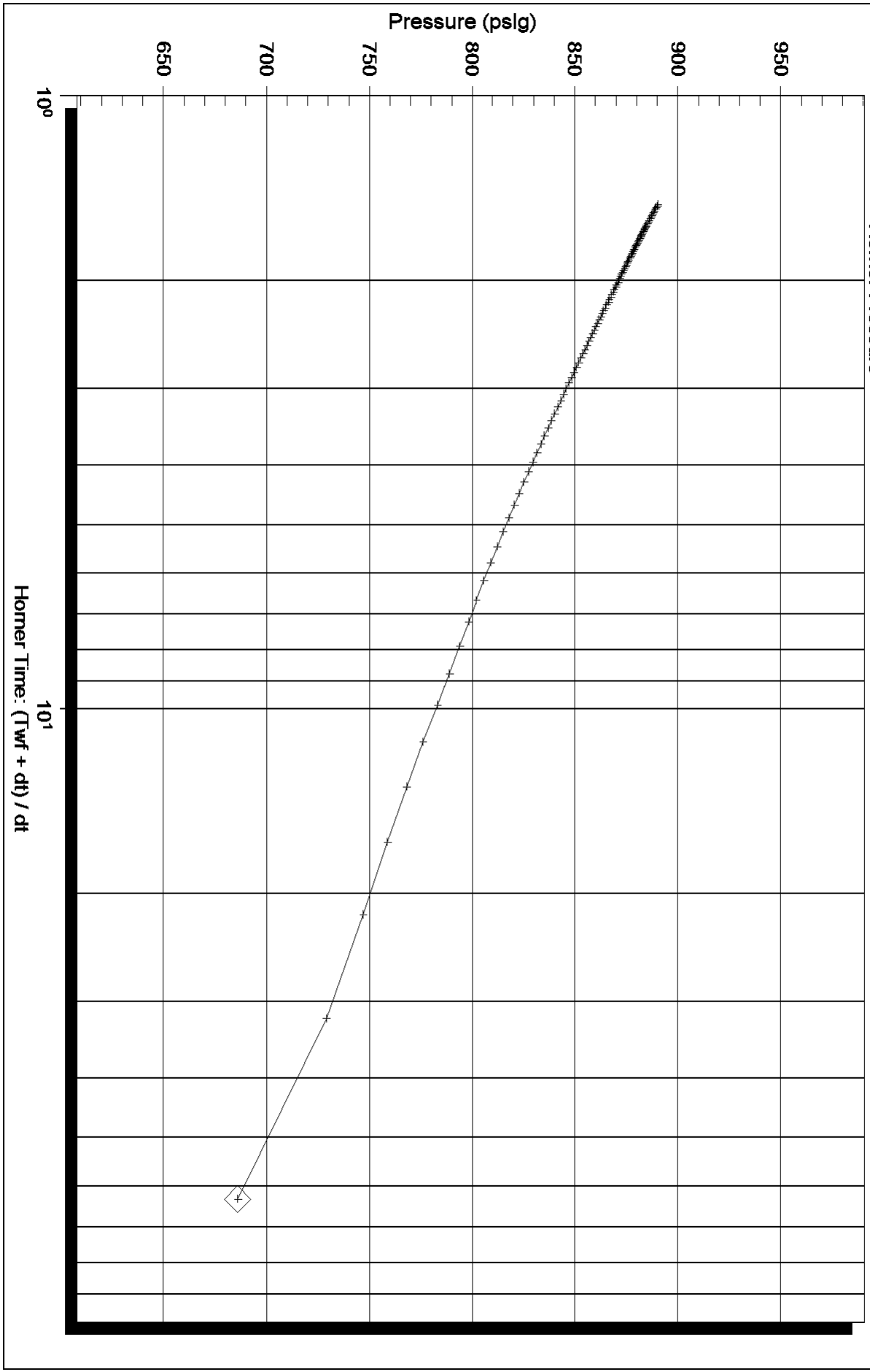
DST Test Number: 2



Horner Plot

Horner Pressure

+



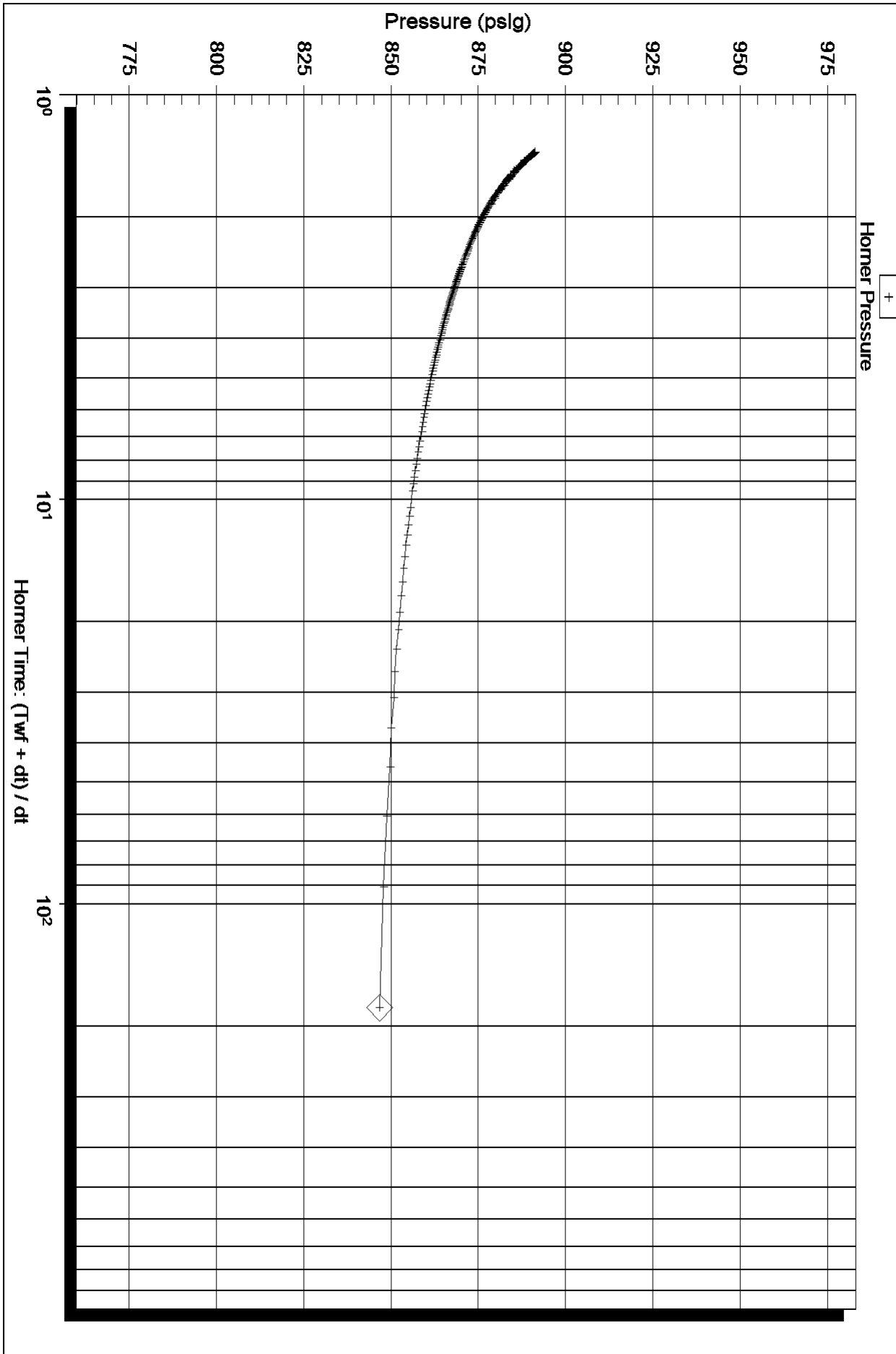
Serial Number: 6798 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



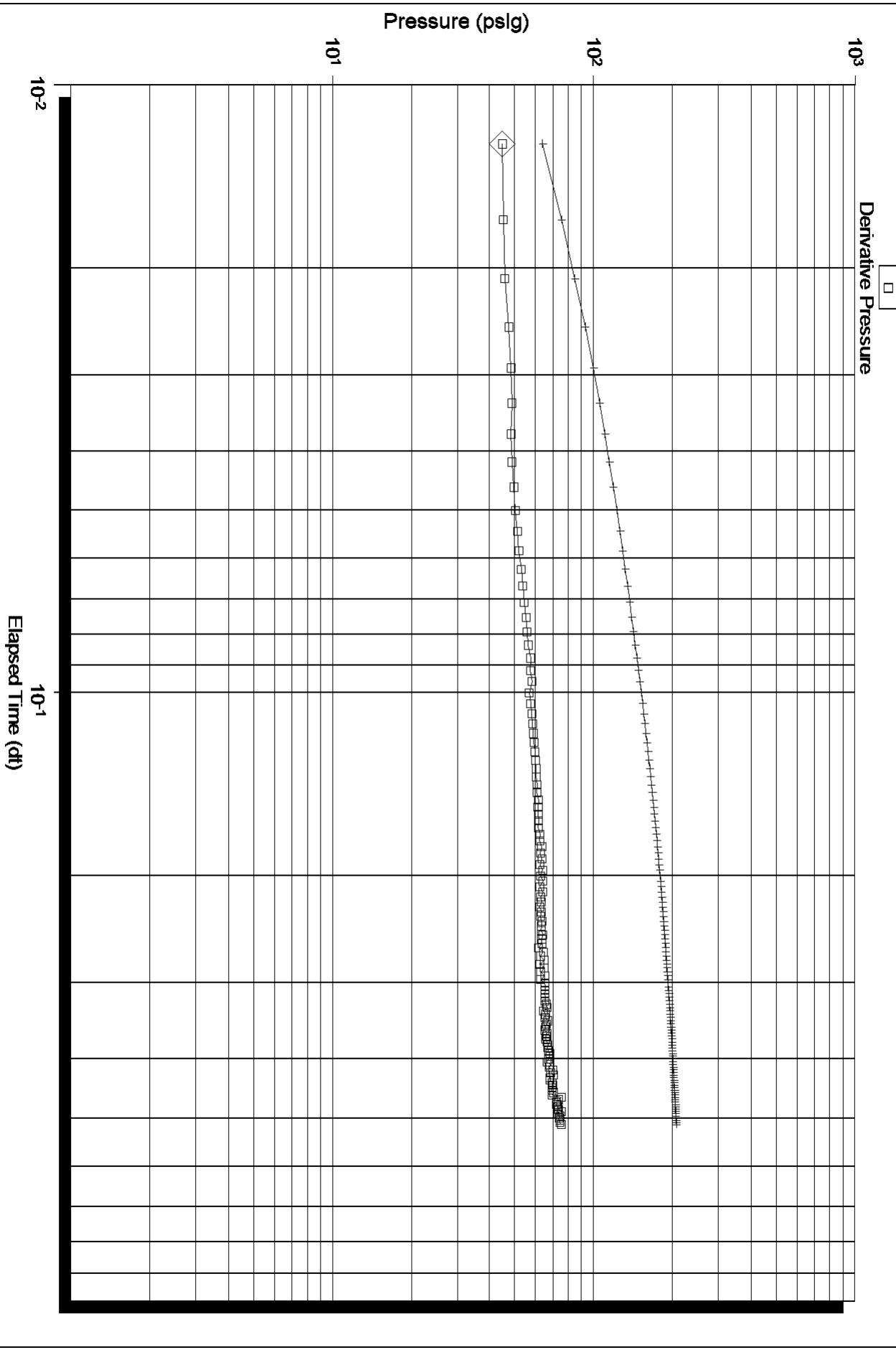
Serial Number: 6798 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

