



DRILL STEM TEST REPORT

Prepared For: **Ares Energy, LTD**

405 N. Marienfeld
Suite 250
Midland, TX 79701

ATTN: Justin Carter

Fisher Farms #9-11

9-23S-13W Stafford, Ks.

Start Date: 2014.01.17 @ 16:35:08

End Date: 2014.01.18 @ 01:41:38

Job Ticket #: 51869 DST #: 3

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

Printed: 2014.01.18 @ 02:50:49



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DRILL STEM TEST REPORT

Ares Energy, LTD
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 ATTN: Justin Carter

9-23S-13W Stafford, Ks.

Fisher Farms #9-11

Job Ticket: 51869

DST#: 3

Test Start: 2014.01.17 @ 16:35:08

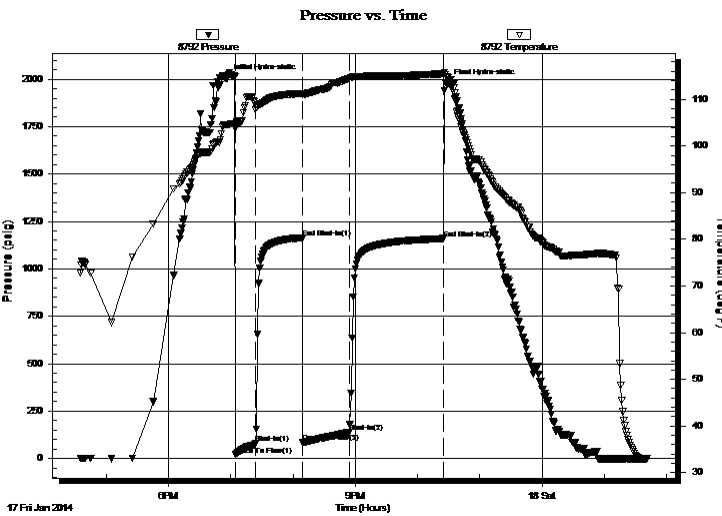
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:04:38
 Time Test Ended: 01:41:38
 Interval: **4216.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Total Depth: 4280.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 48
 Reference Elevations: 1949.00 ft (KB)
 1941.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8792 Outside

Press @ Run Depth: 139.03 psig @ 4240.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.17 End Date: 2014.01.18 Last Calib.: 1899.12.30
 Start Time: 16:35:13 End Time: 01:41:38 Time On Btm: 2014.01.17 @ 18:56:38
 Time Off Btm: 2014.01.17 @ 22:28:38

TEST COMMENT: Weak surface blow dying to no blow tow ards end of initial flow period.
 Weak surface blow throughout final flow period.



PRESSURE SUMMARY

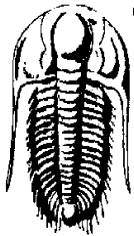
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.70	104.49	Initial Hydro-static
8	19.47	103.72	Open To Flow (1)
28	78.50	107.84	Shut-In(1)
72	1164.20	111.23	End Shut-In(1)
73	83.44	110.95	Open To Flow (2)
118	139.03	114.43	Shut-In(2)
209	1160.12	115.44	End Shut-In(2)
212	1977.08	114.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Gas in pipe 100% G	1.44
20.00	Clean oil 100% O	0.28
80.00	Heavy oil cut mud 25% O 75% M	1.12
185.00	O & Heavy W cut M 8% O 26% W & 66%	2.60

Gas Rates

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



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ATTN: Justin Carter

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Job Ticket: 51869 **DST#: 3**
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Time Tool Opened: 19:04:38

Time Test Ended: 01:41:38

Interval: 4216.00 ft (KB) To 4280.00 ft (KB) (TVD)

Total Depth: 4280.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 48

Reference Elevations: 1949.00 ft (KB)

1941.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8790 Inside

Press @ Run Depth: psig @ 4240.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.17

End Date:

2014.01.18

Last Calib.:

1899.12.30

Start Time: 16:39:21

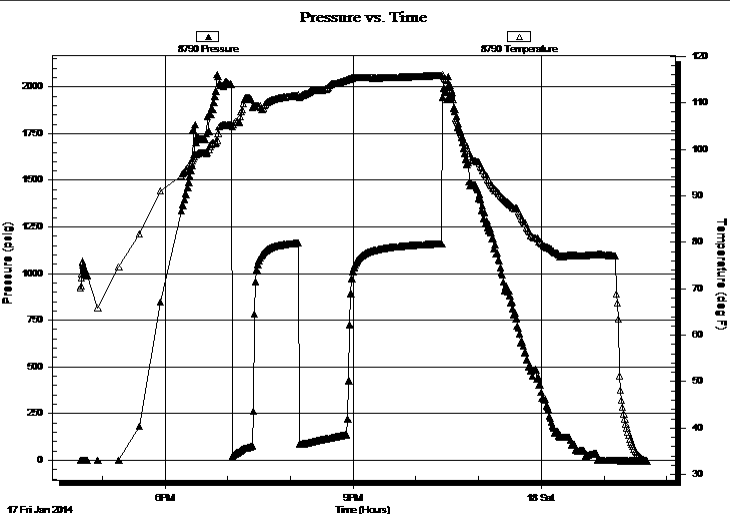
End Time:

01:41:19

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow dying to no blow tow ards end of initial flow period.
Weak surface blow throughout final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Gas in pipe 100% G	1.44
20.00	Clean oil 100% O	0.28
80.00	Heavy oil cut mud 25% O 75% M	1.12
185.00	O & Heavy W cut M 8% O 26% W & 66%	2.60

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



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FLUID SUMMARY

Ares Energy, LTD

9-23S-13W Stafford, Ks.

405 N. Marienfeld
Suite 250

Midland, TX 79701

ATTN: Justin Carter

Fisher Farms #9-11

Job Ticket: 51869

DST#: 3

Test Start: 2014.01.17 @ 16:35:08

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 7100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 34 deg API

Water Salinity: 39000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Gas in pipe 100% G	1.439
20.00	Clean oil 100% O	0.281
80.00	Heavy oil cut mud 25% O 75% M	1.122
185.00	O & Heavy W cut M8% O 26% W & 66% M	2.595

Total Length: 485.00 ft Total Volume: 5.437 bbl

Num Fluid Samples: 0

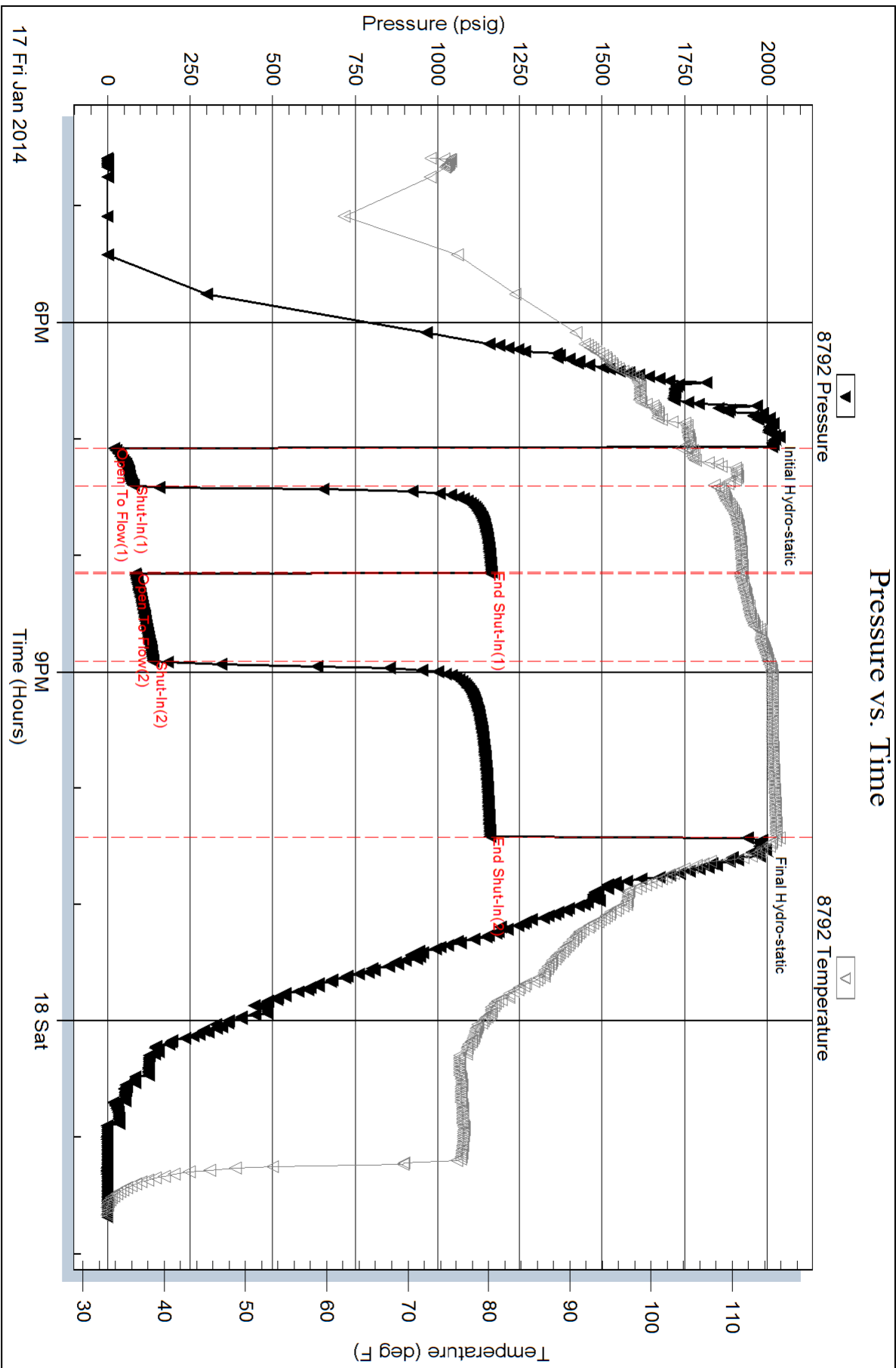
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



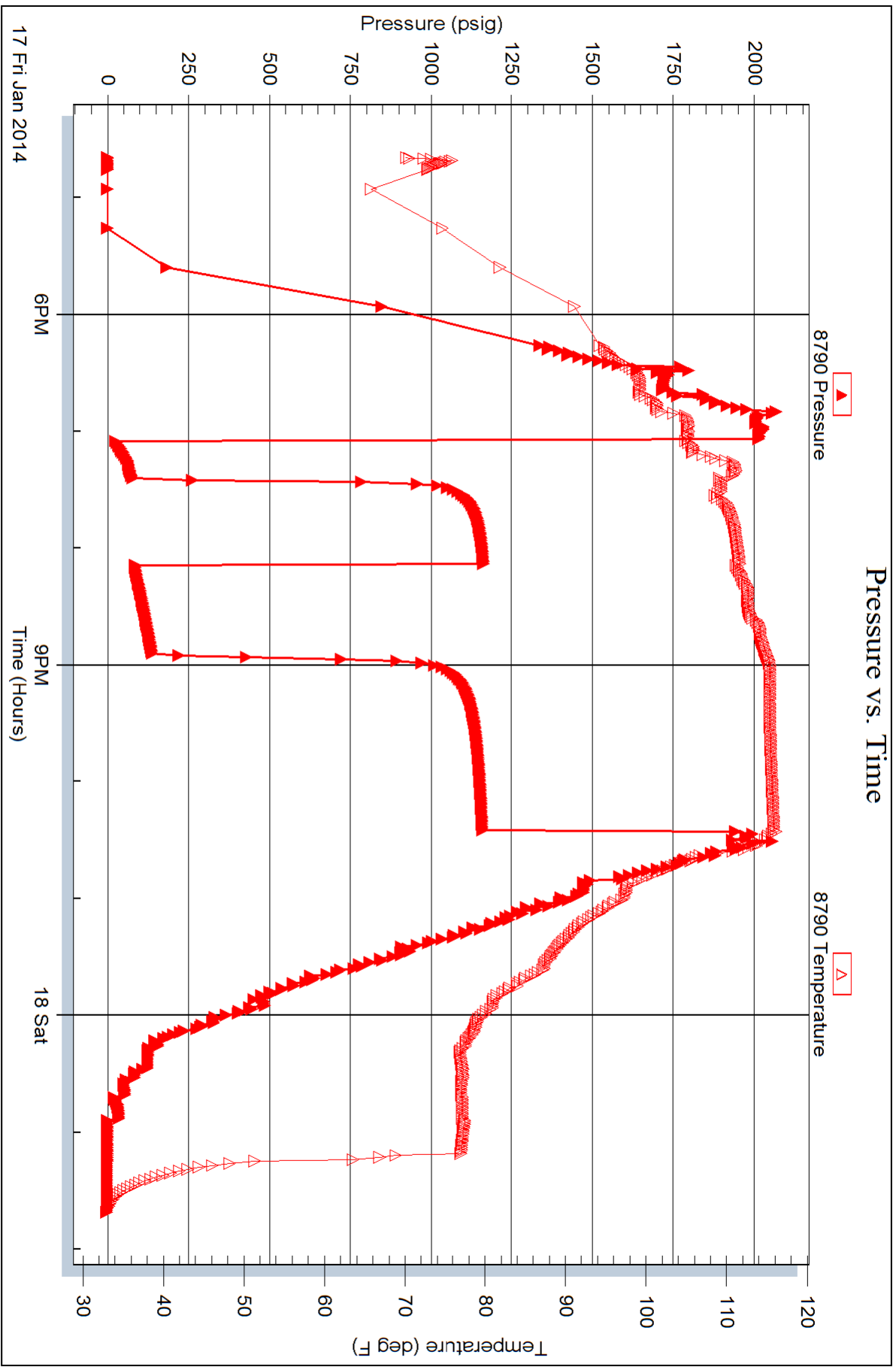
Serial #: 8790

Inside

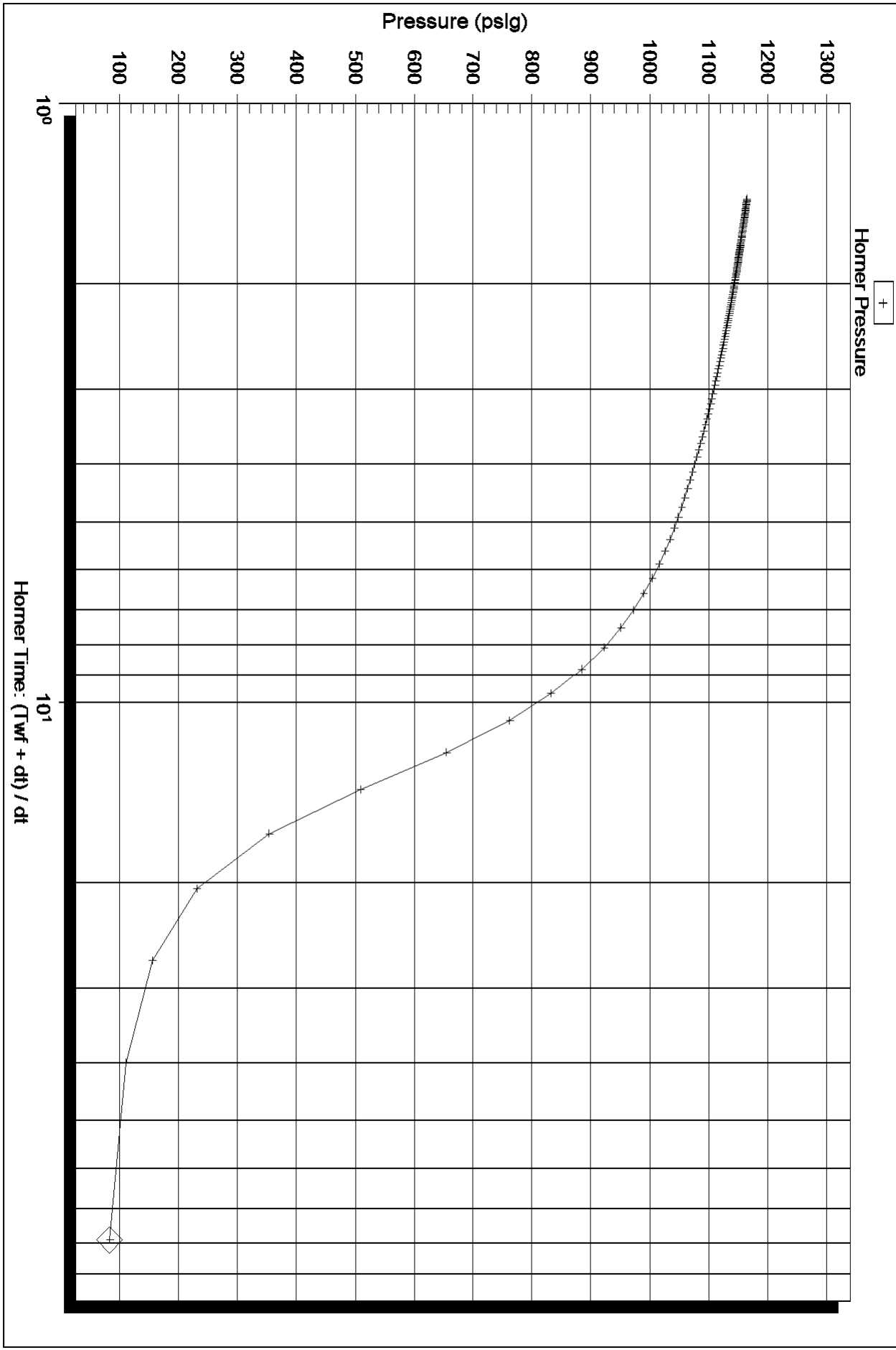
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DST Test Number: 3



Horner Plot



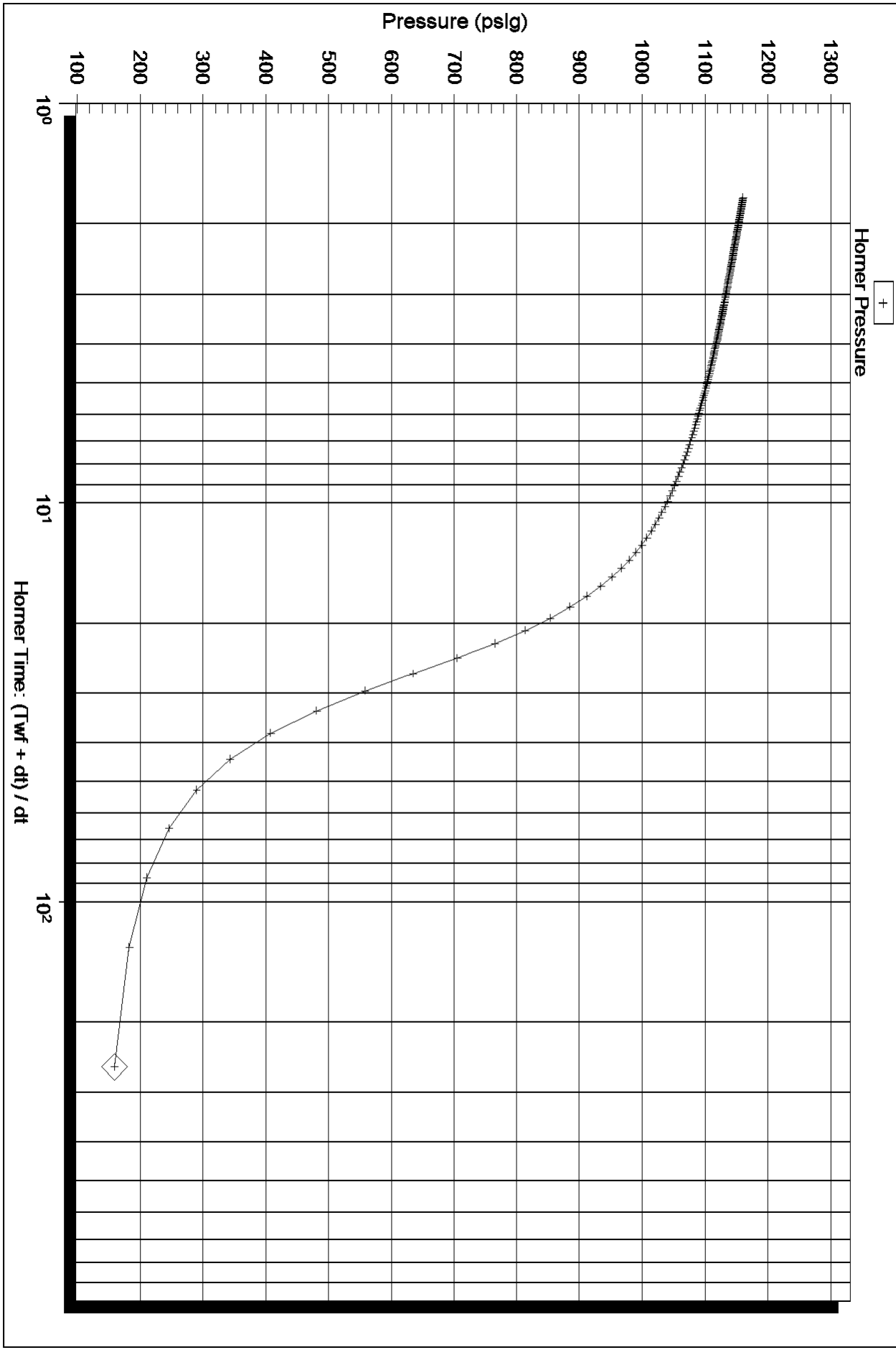
Serial Number: 8792 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



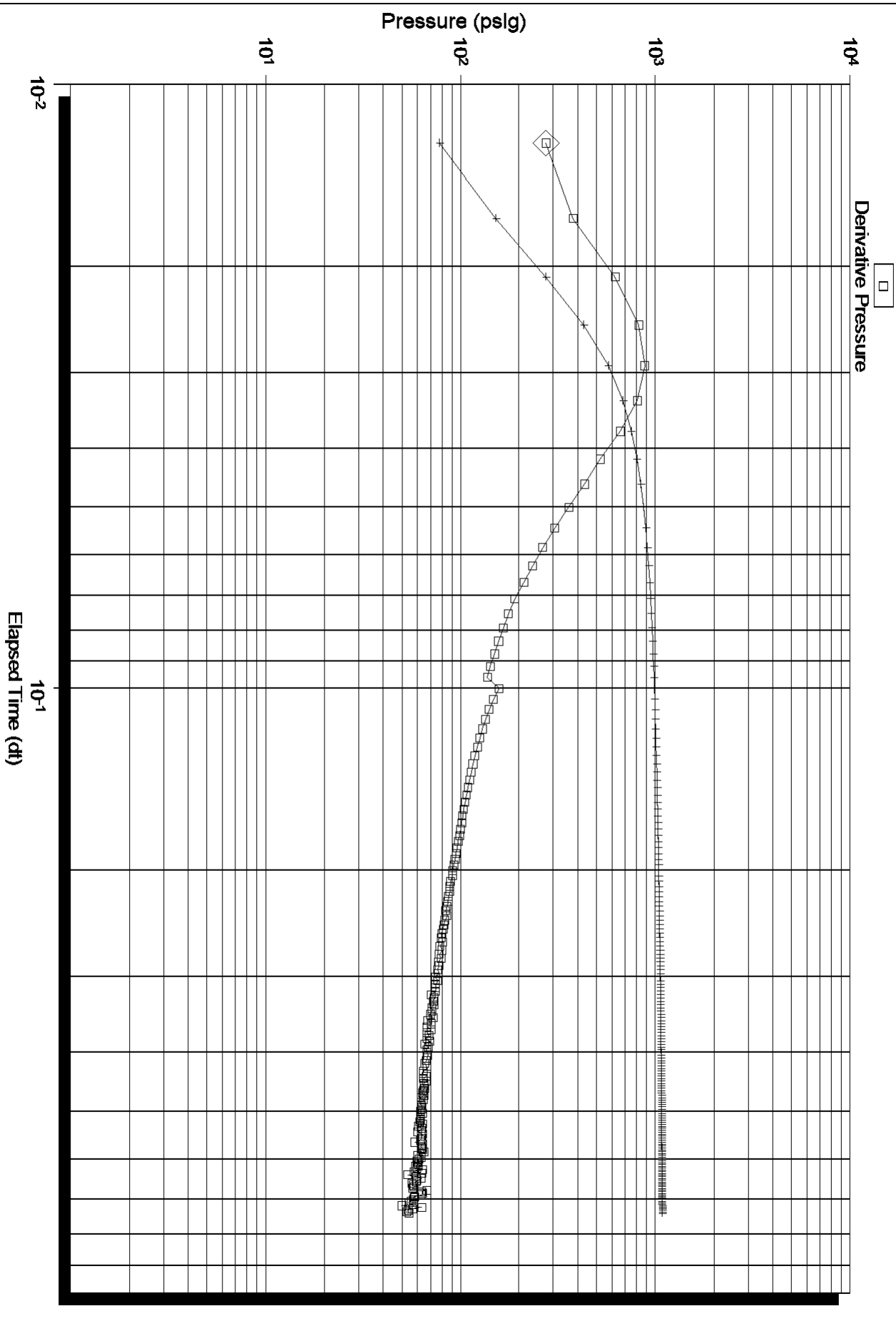
Serial Number: 8792 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

