



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great Plains Energy, Inc
 6121 S. 58th St.
 Suite B
 Lincoln, NE. 68516
 ATTN: Mike Madcharo

8-7s-18w-Rooks

Odle #1-8

Job Ticket: 50433

DST#: 4

Test Start: 2013.06.13 @ 01:56:47

GENERAL INFORMATION:

Formation: **I-J**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:19:17
 Time Test Ended: 11:01:32
 Interval: **3299.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Total Depth: 3340.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1945.00 ft (KB)
 1937.00 ft (CF)
 KB to GR/CF: 8.00 ft

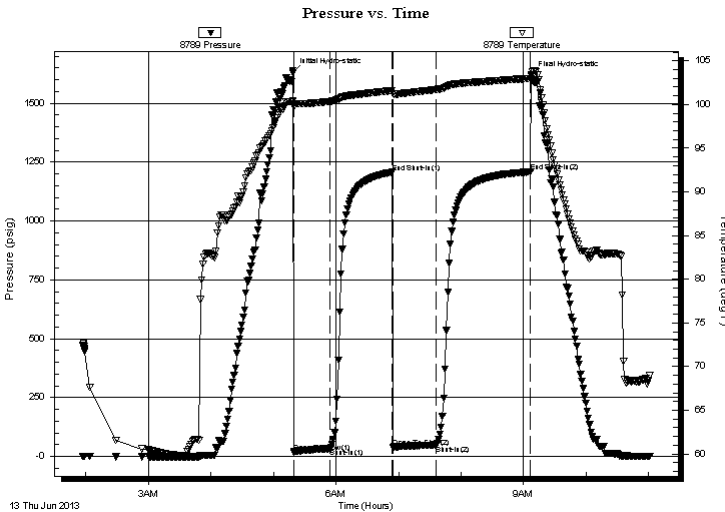
Serial #: 8789

Inside

Press @ Run Depth: 49.29 psig @ 3334.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.13 End Date: 2013.06.13 Last Calib.: 2013.06.13
 Start Time: 01:56:49 End Time: 11:01:32 Time On Btm: 2013.06.13 @ 05:18:47
 Time Off Btm: 2013.06.13 @ 09:07:17

TEST COMMENT: IFP-Weak Blow , Built to 3-1/4"
 ISI-Dead
 FFP-Weak Blow , Built to 3-1/4"
 FSI-Dead

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1628.86 | 100.38 | Initial Hydro-static |
| 1 | 18.21 | 99.70 | Open To Flow (1) |
| 36 | 33.23 | 100.37 | Shut-In(1) |
| 95 | 1206.94 | 101.60 | End Shut-In(1) |
| 96 | 38.19 | 101.26 | Open To Flow (2) |
| 137 | 49.29 | 101.70 | Shut-In(2) |
| 228 | 1208.43 | 103.00 | End Shut-In(2) |
| 229 | 1615.15 | 103.42 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 10.00 | OCM-30%O-70%M | 0.05 |
| 60.00 | Free Oil | 0.30 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Lincoln, NE. 68516
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8-7s-18w-Rooks
Odle #1-8
Job Ticket: 50433 **DST#: 4**
Test Start: 2013.06.13 @ 01:56:47

Mud and Cushion Information

| | | |
|----------------------------------|----------------------------|---------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 36 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: ppm |
| Viscosity: 55.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 7.99 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 2100.00 ppm | | |
| Filter Cake: inches | | |

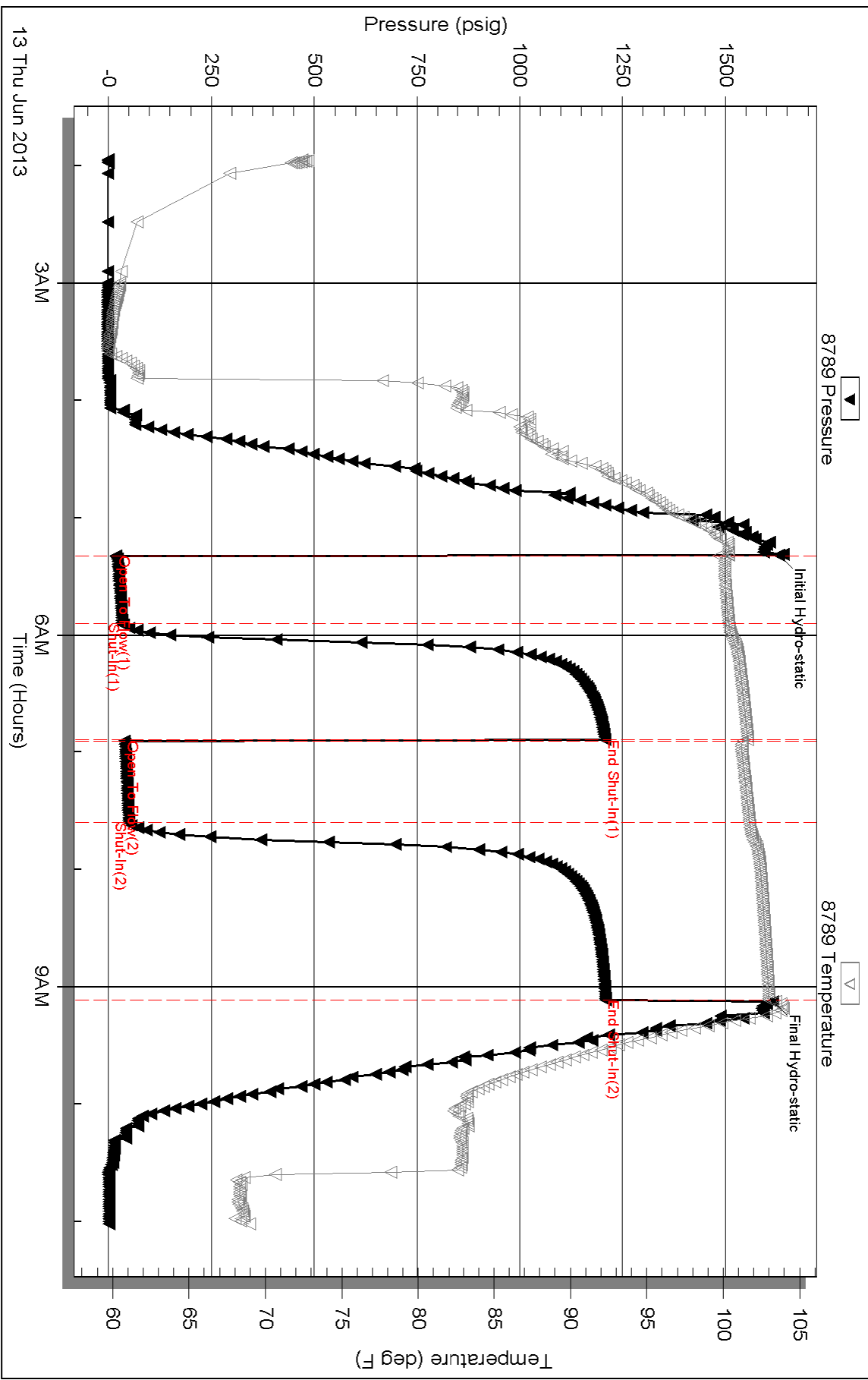
Recovery Information

Recovery Table

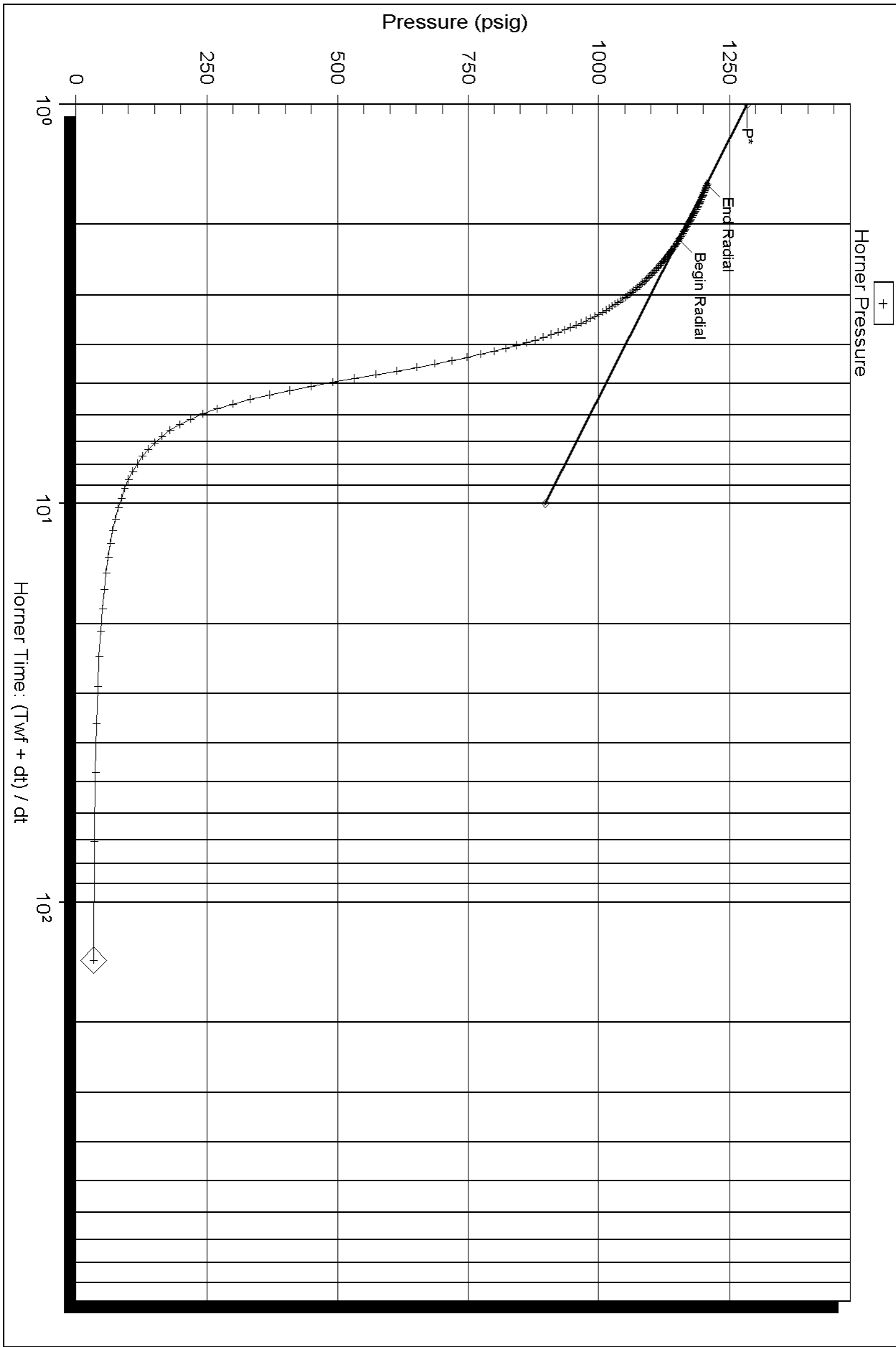
| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 10.00 | OCM-30%O-70%M | 0.049 |
| 60.00 | Free Oil | 0.295 |

Total Length: 70.00 ft Total Volume: 0.344 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Horner Plot



Horner Pressure

Pressure (psig)

P*

End Radial

Begin Radial

+

Horner Time: $(T_{wf} + dt) / dt$

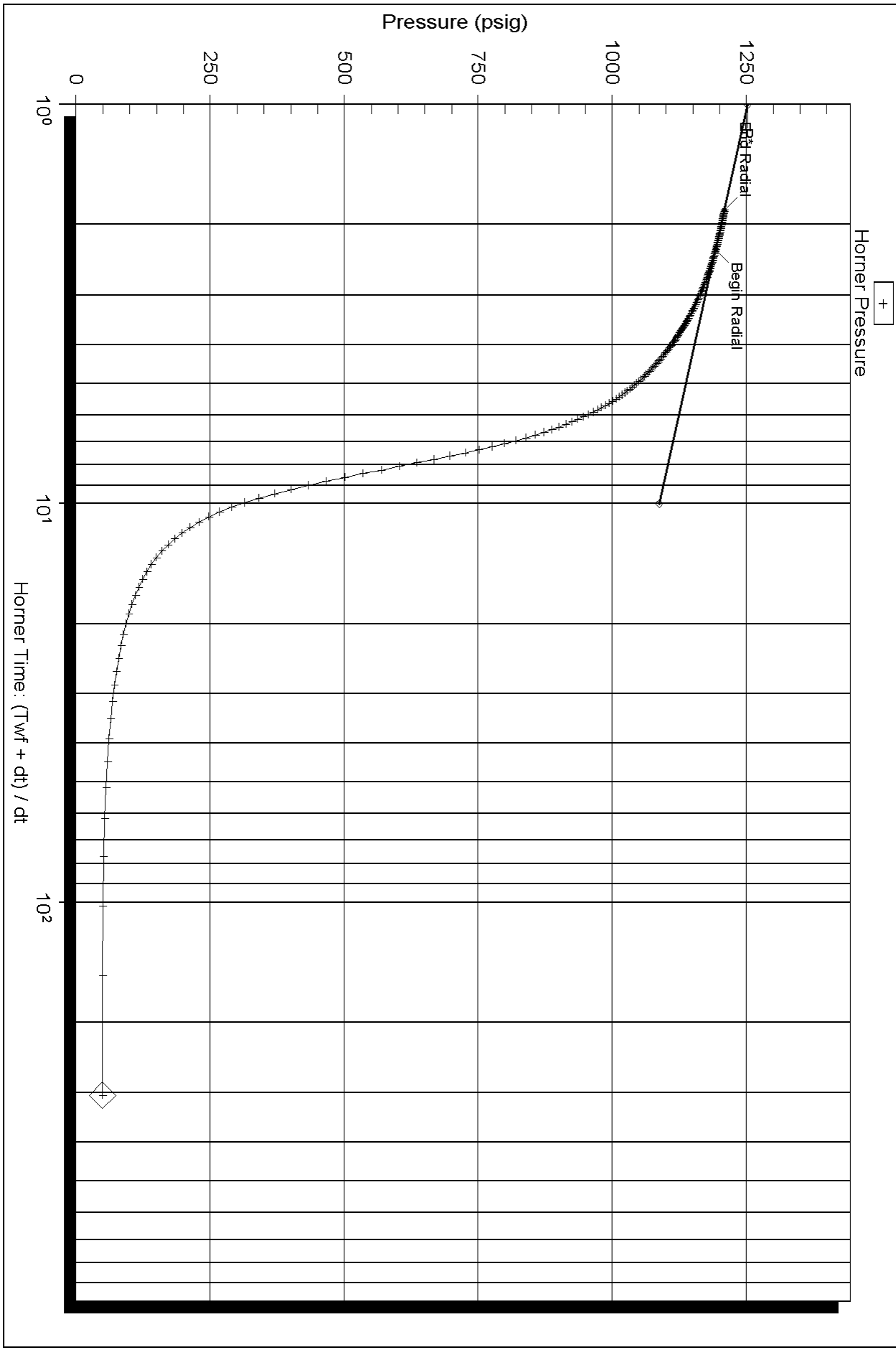
Serial Number: 8789 (Inside)

P* : 1283.89

Slope (m) : 385.44 kpa/log cycle

Flow Cycle: 1

Horner Plot



Serial Number: 8789 (Inside)

P* : 1252.07

Slope (m) : 164.55 kpa/log cycle

Flow Cycle: 2

Horner Time: (Twf + dt) / dt