



DRILL STEM TEST REPORT

Prepared For: **Primal Energy O&G, LLC.**

21021 Springbrook Plaza Dr.
Ste. 106
Spring, TX 77379

ATTN: Justin Carter / Char

Manke Trust #1

3-19s.-9w. Rice Co.

Start Date: 2012.10.19 @ 11:51:00

End Date: 2012.10.19 @ 20:11:54

Job Ticket #: 48579 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Printed: 2012.10.19 @ 20:46:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Primal Energy O&G, LLC.

3-19s-9w. Rice Co.

21021 Springbrook Plaza Dr.
Ste. 106
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Manke Trust #1

Job Ticket: 48579

DST#: 3

Test Start: 2012.10.19 @ 11:51:00

GENERAL INFORMATION:

Formation: ?
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 13:46:25
 Time Test Ended: 20:11:54
 Interval: **2980.00 ft (KB) To 3122.00 ft (KB) (TVD)**
 Total Depth: 3375.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1718.00 ft (KB)
 1708.00 ft (CF)
 KB to GR/CF: 10.00 ft

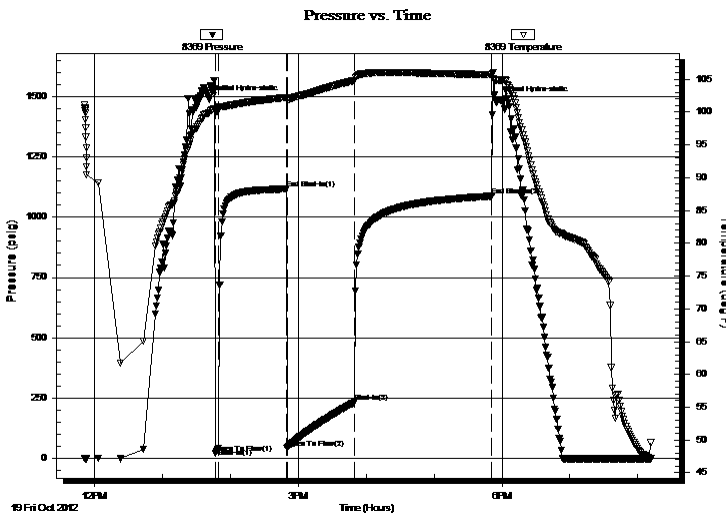
Serial #: 8369

Inside

Press @ Run Depth: 232.77 psig @ 2983.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.19 End Date: 2012.10.19 Last Calib.: 2012.10.19
 Start Time: 11:51:00 End Time: 20:11:54 Time On Btm: 2012.10.19 @ 13:41:25
 Time Off Btm: 2012.10.19 @ 17:58:24

TEST COMMENT: 3-IFP-w k to a gd bl 1" to 6" bl
 60-ISIP-no bl
 60-FFP-w k to a strg bl in 18min
 120-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.16	99.92	Initial Hydro-static
5	23.18	100.12	Open To Flow (1)
8	42.73	100.23	Shut-In(1)
68	1116.00	102.23	End Shut-In(1)
69	43.41	101.93	Open To Flow (2)
128	232.77	104.80	Shut-In(2)
250	1086.74	105.74	End Shut-In(2)
257	1483.84	104.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW 20%M80%W	2.10
360.00	Water	5.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

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FLUID SUMMARY

Primal Energy O&G, LLC.

3-19s-9w. Rice Co.

21021 Springbrook Plaza Dr.
Ste. 106
Spring, TX 77379
ATTN: Justin Carter / Char

Manke Trust #1

Job Ticket: 48579

DST#: 3

Test Start: 2012.10.19 @ 11:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.15 in³

Resistivity: ohm.m

Salinity: 7100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 76000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MW 20%M80%W	2.104
360.00	Water	5.050

Total Length: 510.00 ft Total Volume: 7.154 bbl

Num Fluid Samples: 0

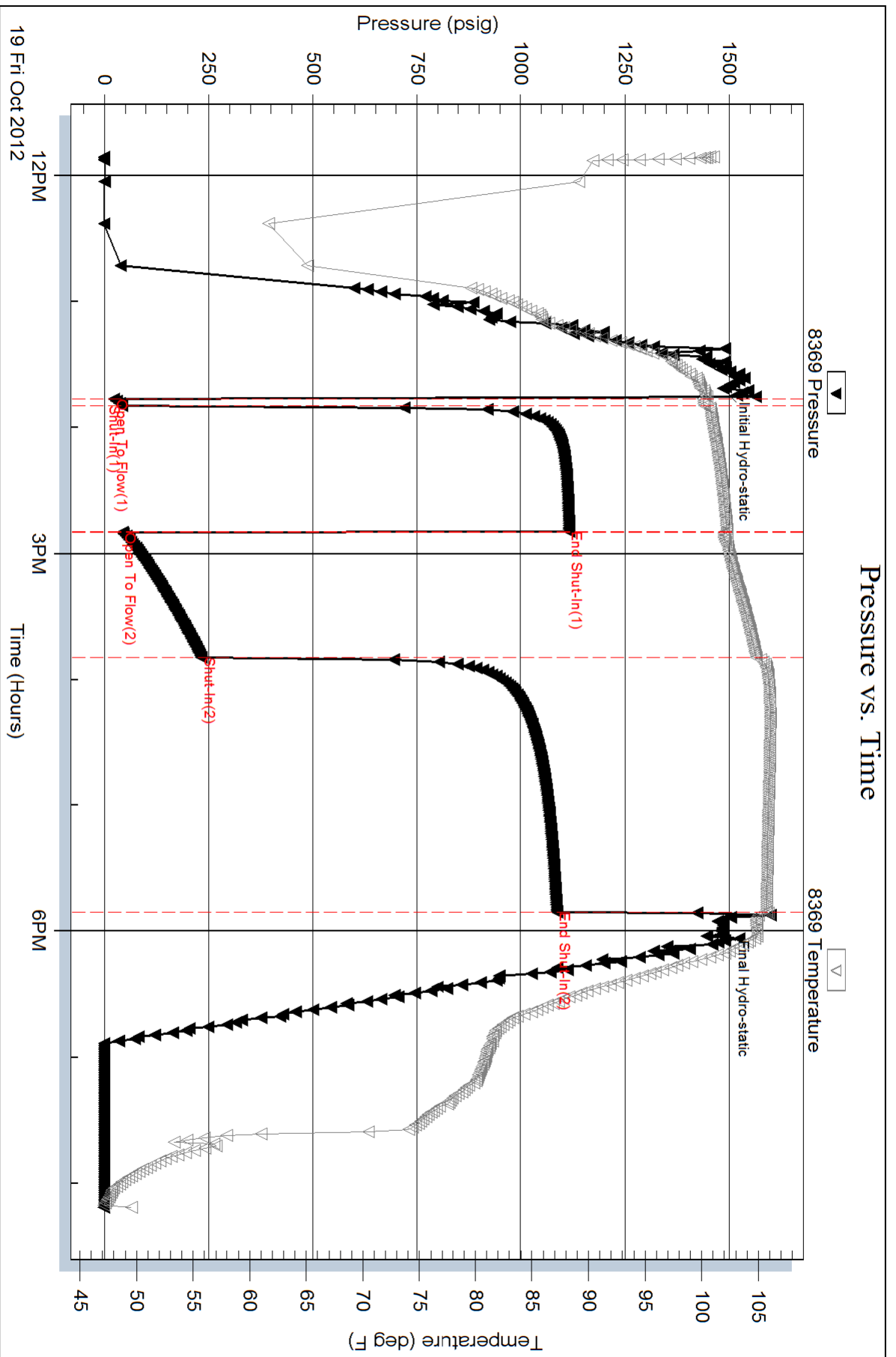
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .10@ 68F

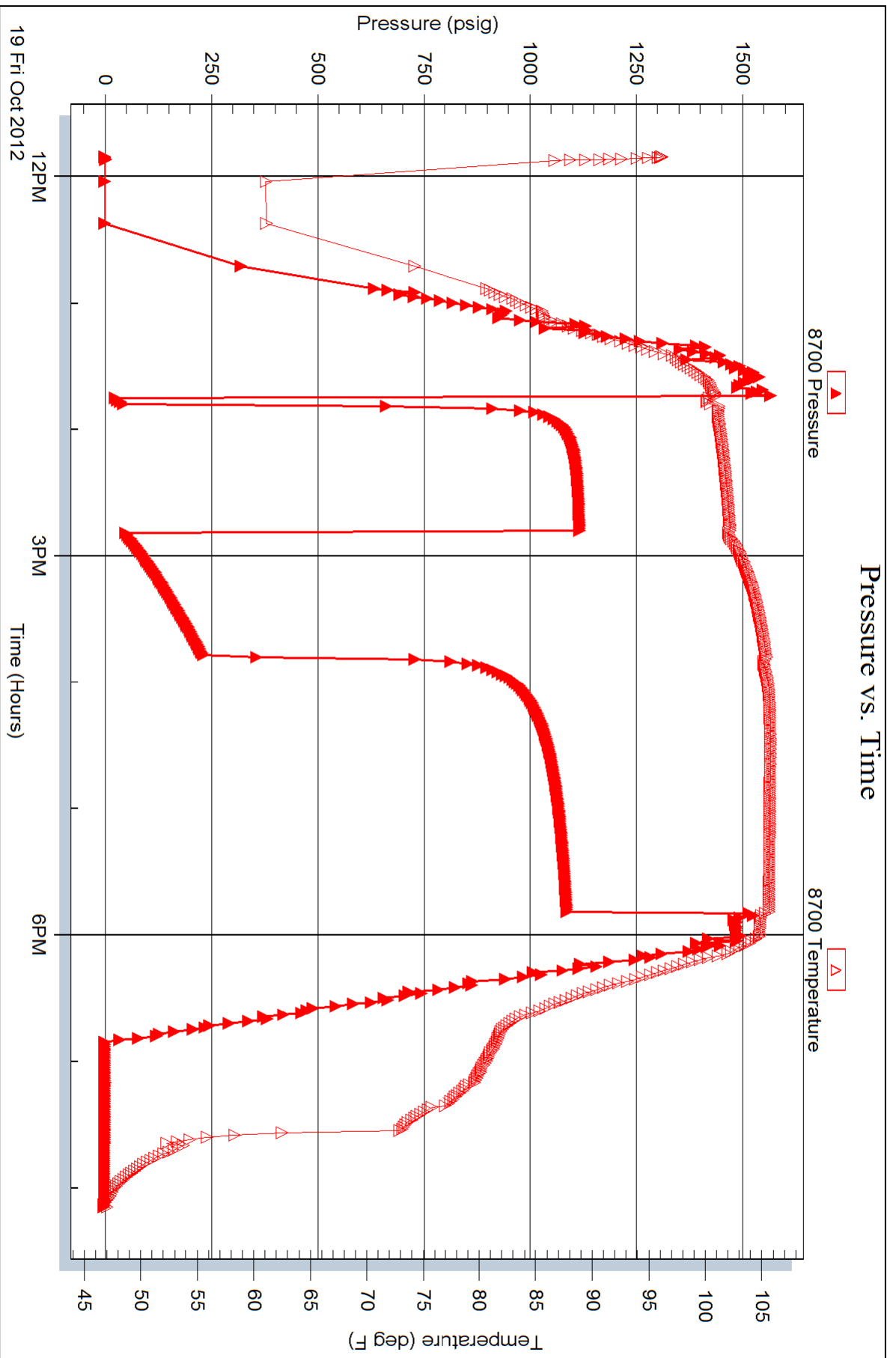


Serial #: 8700

Outside Pinal Energy O&G, LLC.

Manke Trust #1

DST Test Number: 3



Serial #: 8374

Below (Stratfield) Energy O&G, LLC.

Manke Trust #1

DST Test Number: 3

