DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Richland Oil Investments

608 E 1st
Palco, Ks 67657

ATTN: Steve Murphy

22-12-33 Logan, KS

Moore 22-2

Job Ticket: 63782 **DST#: 3**

Test Start: 2017.04.02 @ 20:59:23

GENERAL INFORMATION:

Formation: **Lansing H-I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:17:23
Time Test Ended: 01:50:23

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4214.00 ft (KB) To 4254.00 ft (KB) (TVD)
Total Depth: 4254.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

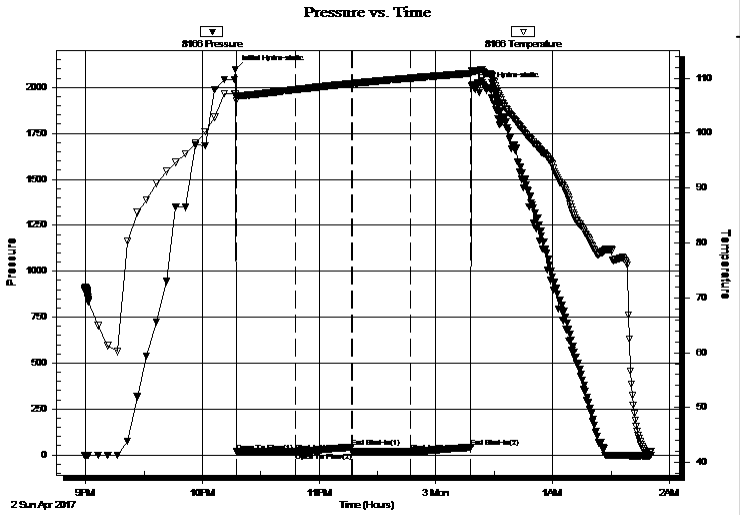
Reference Elevations: 3114.00 ft (KB)
3104.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 16.97 psig @ 4215.00 ft (KB)
Start Date: 2017.04.02 End Date: 2017.04.03
Start Time: 20:59:28 End Time: 01:50:22

Capacity: 8000.00 psig
Last Calib.: 2017.04.03
Time On Btm: 2017.04.02 @ 22:16:53
Time Off Btm: 2017.04.03 @ 00:18:23

TEST COMMENT: IF: Surface blow built to 3/4.
IS: No return.
FF: No blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.07	107.11	Initial Hydro-static
1	16.49	105.85	Open To Flow (1)
31	16.49	107.91	Shut-In(1)
60	41.65	109.01	End Shut-In(1)
60	16.64	109.02	Open To Flow (2)
90	16.97	110.00	Shut-In(2)
121	40.80	110.88	End Shut-In(2)
122	2006.88	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

* Recovery from multiple tests

Gas Rates

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

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Unit No: 79

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Total Depth: 4254.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

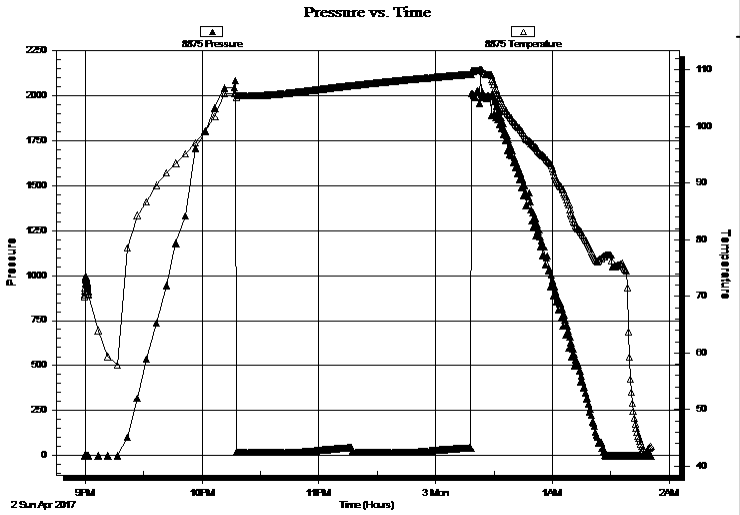
Reference Elevations: 3114.00 ft (KB)
3104.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: psig @ 4215.00 ft (KB)
Start Date: 2017.04.02 End Date: 2017.04.03
Start Time: 20:59:36 End Time: 01:50:30

Capacity: 8000.00 psig
Last Calib.: 2017.04.03
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Surface blow built to 3/4.
IS: No return.
FF: No blow .
FS: No return.



PRESSURE SUMMARY

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

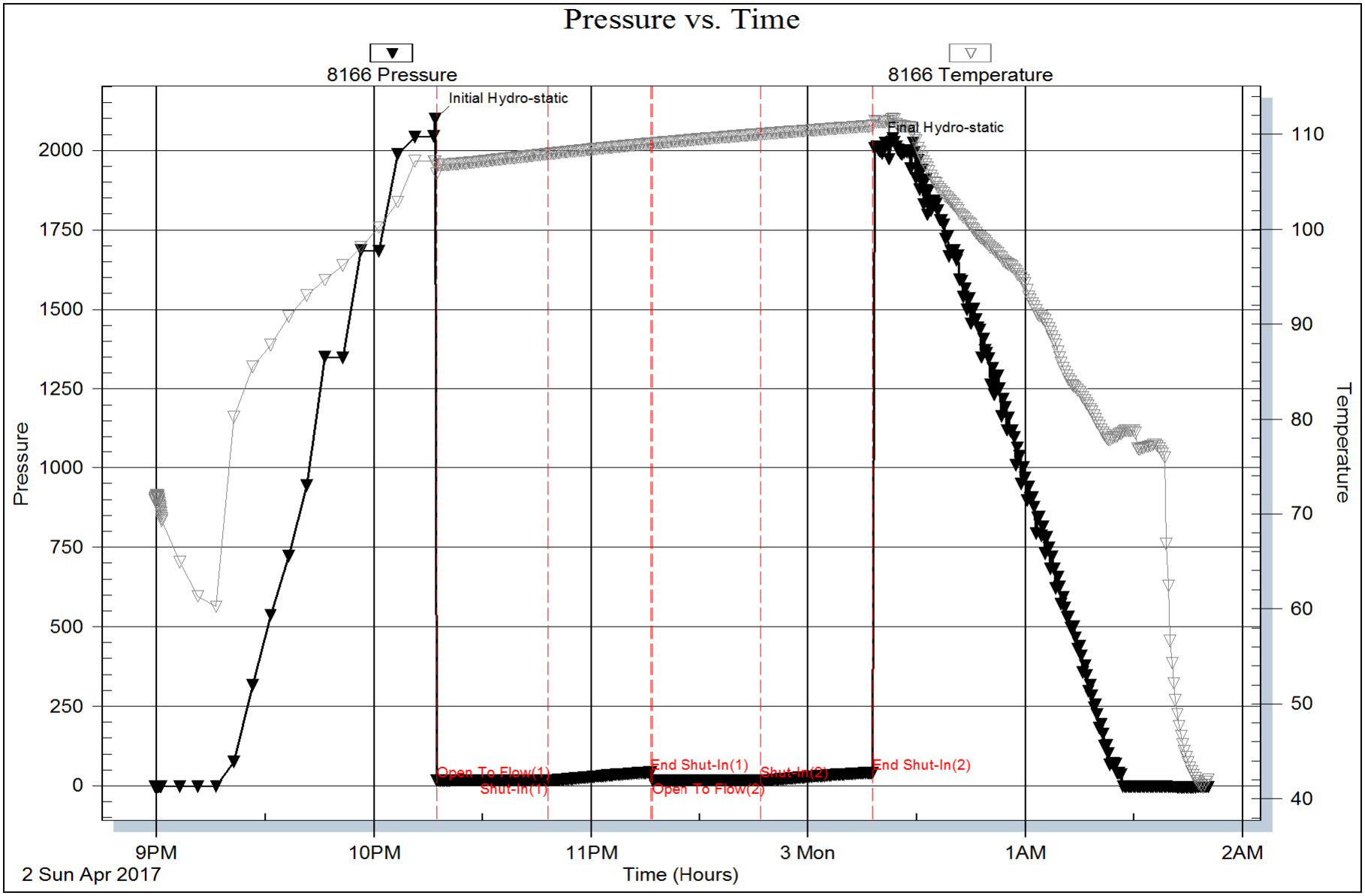
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

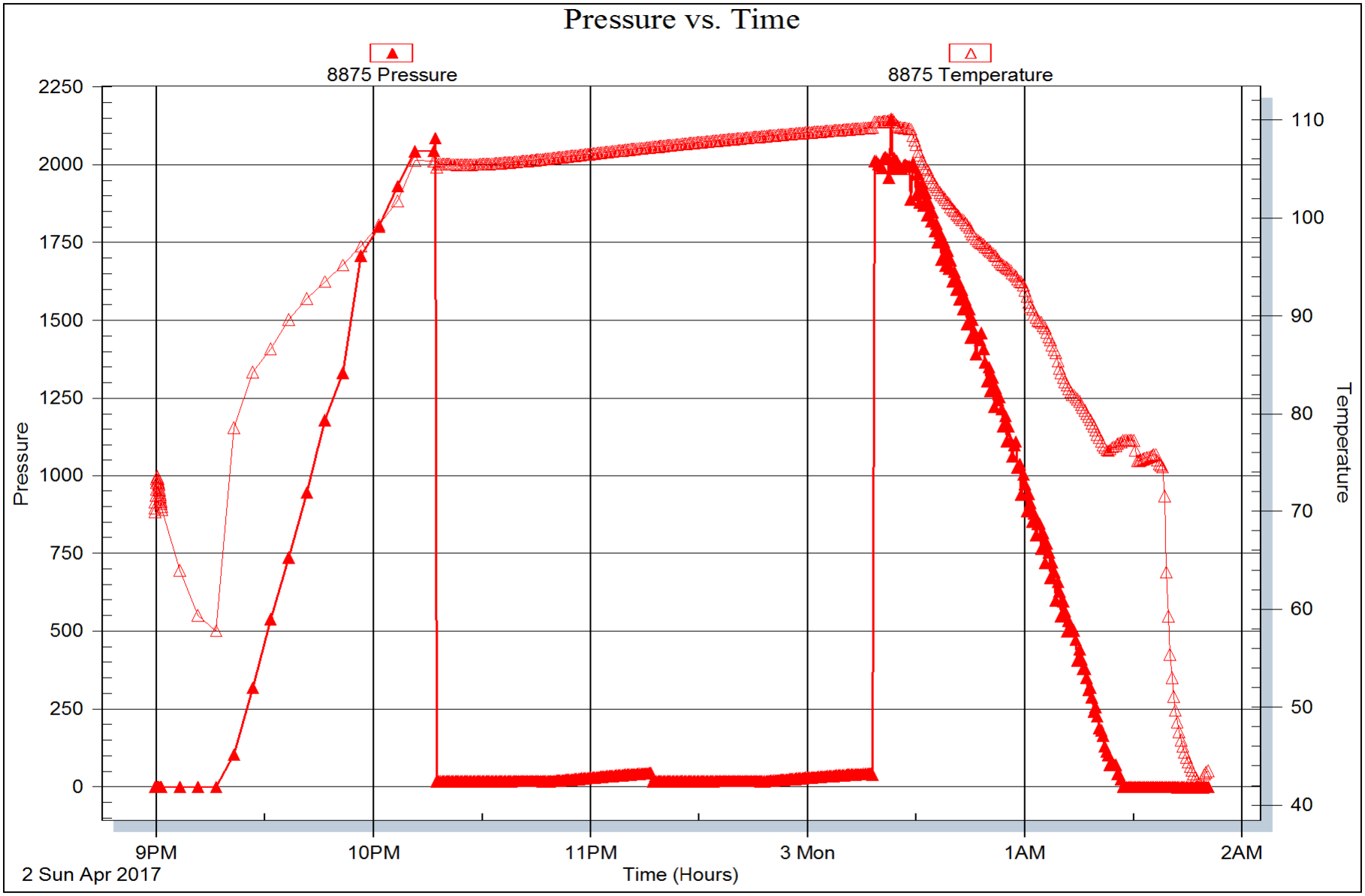
* Recovery from multiple tests

Gas Rates

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


Pressure vs. Time
8166 Pressure
8166 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
9PM
10PM
11PM
3 Mon
1AM
2AM
2 Sun Apr 2017
Time (Hours)

Serial #: 8875 **Inside** Richland Oil Investments Moore 22-2 DST Test Number: 3



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