15-199-20404

TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Prepared For: **Red Oak Energy Inc**

7701 E Kellog Ste 710
Wichita KS 67207

ATTN: Scott Banks

**1 15 41W Wallace KS**

**Smith #3**

Start Date: 2007.12.07 @ 15:50:15
End Date: 2007.12.08 @ 04:48:00
Job Ticket #: 29738 DST #: 1

Red Oak Energy Inc Smith #3 1 15 41W Wallace KS DST # 1 Morrow 2007.12.07

Trilobite Testing, Inc
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# DRILL STEM TEST REPORT

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7701 E Kellog Ste 710
Wichita KS 67207

ATTN: Scott Banks

**Smith #3**

**1 15 41W Wallace KS**

Job Ticket: 29738 **DST#: 1**

Test Start: 2007.12.07 @ 15:50:15

## GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:51:15
Time Test Ended: 04:48:00

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

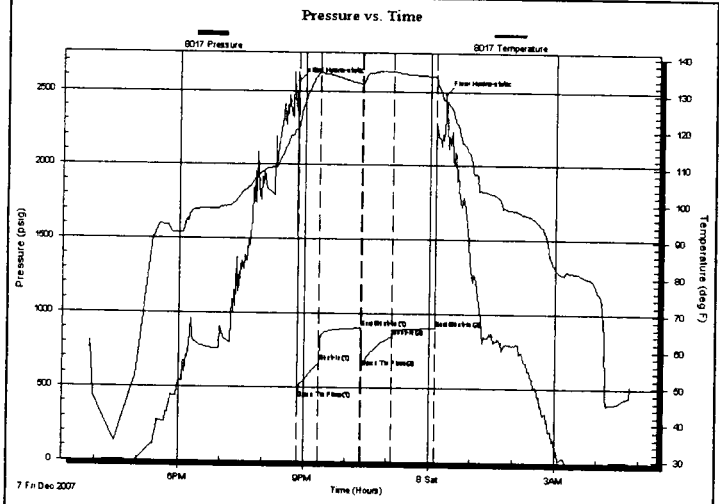
**Interval: 4880.00 ft (KB) To 4970.00 ft (KB) (TVD)**
Total Depth: 4970.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3743.00 ft (KB)
3730.00 ft (CF)
KB to GR/CF: 13.00 ft

**Serial #: 8017** **Inside**
Press@RunDepth: 842.45 psig @ 4881.00 ft (KB)
Start Date: 2007.12.07 End Date: 2007.12.08
Start Time: 15:50:16 End Time: 04:48:00

Capacity: 7000.00 psig
Last Calib.: 2007.12.08
Time On Btm: 2007.12.07 @ 20:49:45
Time Off Btm: 2007.12.08 @ 00:22:45

TEST COMMENT: IF BOB @ 3 min.
ISI 1 " return died @ 25 min.
FF BOB @ 2 1/2 min.
FSI BOB @ 18 min. receded to 5 "




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2565.80 | 120.73 | Initial Hydro-static |
| 2 | 421.69 | 120.86 | Open To Flow (1) |
| 32 | 666.24 | 135.95 | Shut-In(1) |
| 92 | 902.39 | 132.88 | End Shut-In(1) |
| 93 | 638.64 | 132.84 | Open To Flow (2) |
| 138 | 842.45 | 136.21 | Shut-In(2) |
| 199 | 902.54 | 134.82 | End Shut-In(2) |
| 213 | 2482.73 | 127.91 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 91.00 | MCW 10%M 90%W | 0.45 |
| 641.00 | GMOCW 35%G 12%M 25%O 28%W | 5.41 |
| 1425.00 | GMOCW 65%G 7%M 13%O 15%W | 19.99 |
| 25.00 | 100%M | 0.35 |
| 0.00 | 855 Feet of GIP | 0.00 |
| | | |

## Gas Rates

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

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**TOOL DIAGRAM**

Red Oak Energy Inc

7701 E Kellog Ste 710
Wichita KS 67207

ATTN: Scott Banks

**Smith #3**

**1 15 41W Wallace KS**

Job Ticket: 29738 **DST#: 1**

Test Start: 2007.12.07 @ 15:50:15

## Tool Information

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Drill Pipe: | Length: | 4379.00 ft | Diameter: | 3.80 inches | Volume: | 61.43 bbl | Tool Weight: | | 2500.00 lb |
| Heavy Wt. Pipe: | Length: | 0.00 ft | Diameter: | 0.00 inches | Volume: | 0.00 bbl | Weight set on Packer: | | 25000.00 lb |
| Drill Collar: | Length: | 484.00 ft | Diameter: | 2.25 inches | Volume: | 2.38 bbl | Weight to Pull Loose: | | 95000.00 lb |
| | | | | | Total Volume: | 63.81 bbl | Tool Chased | | 0.00 ft |
| Drill Pipe Above KB: | | 11.00 ft | | | | | String Weight: | Initial | 68000.00 lb |
| Depth to Top Packer: | | 4880.00 ft | | | | | | Final | 79000.00 lb |
| Depth to Bottom Packer: | | ft | | | | | | | |
| Interval between Packers: | | 90.00 ft | | | | | | | |
| Tool Length: | | 118.00 ft | | | | | | | |
| Number of Packers: | | 2 | Diameter: | 6.75 inches | | | | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---|---|---|---|---|---|---|
| Change Over Sub | 1.00 | | | 4853.00 | | |
| Shut In Tool | 5.00 | | | 4858.00 | | |
| Hydraulic tool | 5.00 | | | 4863.00 | | |
| Jars | 5.00 | | | 4868.00 | | |
| Safety Joint | 3.00 | | | 4871.00 | | |
| Packer | 5.00 | | | 4876.00 | 28.00 | Bottom Of Top Packer |
| Packer | 4.00 | | | 4880.00 | | |
| Stubb | 1.00 | | | 4881.00 | | |
| Recorder | 0.00 | 8017 | Inside | 4881.00 | | |
| Recorder | 0.00 | 8351 | Inside | 4881.00 | | |
| Perforations | 20.00 | | | 4901.00 | | |
| Change Over Sub | 1.00 | | | 4902.00 | | |
| Drill Pipe | 62.00 | | | 4964.00 | | |
| Change Over Sub | 1.00 | | | 4965.00 | | |
| Bullnose | 5.00 | | | 4970.00 | 90.00 | Bottom Packers & Anchor |
| **Total Tool Length:** | **118.00** | | | | | |

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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Red Oak Energy Inc

7701 E Kellog Ste 710
Wichita KS 67207

ATTN: Scott Banks

**Smith #3**

**1 15 41W Wallace KS**

Job Ticket: 29738 **DST#: 1**

Test Start: 2007.12.07 @ 15:50:15

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | 0 deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | 28000 ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 7.99 in³ | Gas Cushion Type: | | | |
| Resistivity: | 0.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 2300.00 ppm | | | | |
| Filter Cake: | 1.00 inches | | | | |

## Recovery Information

Recovery Table

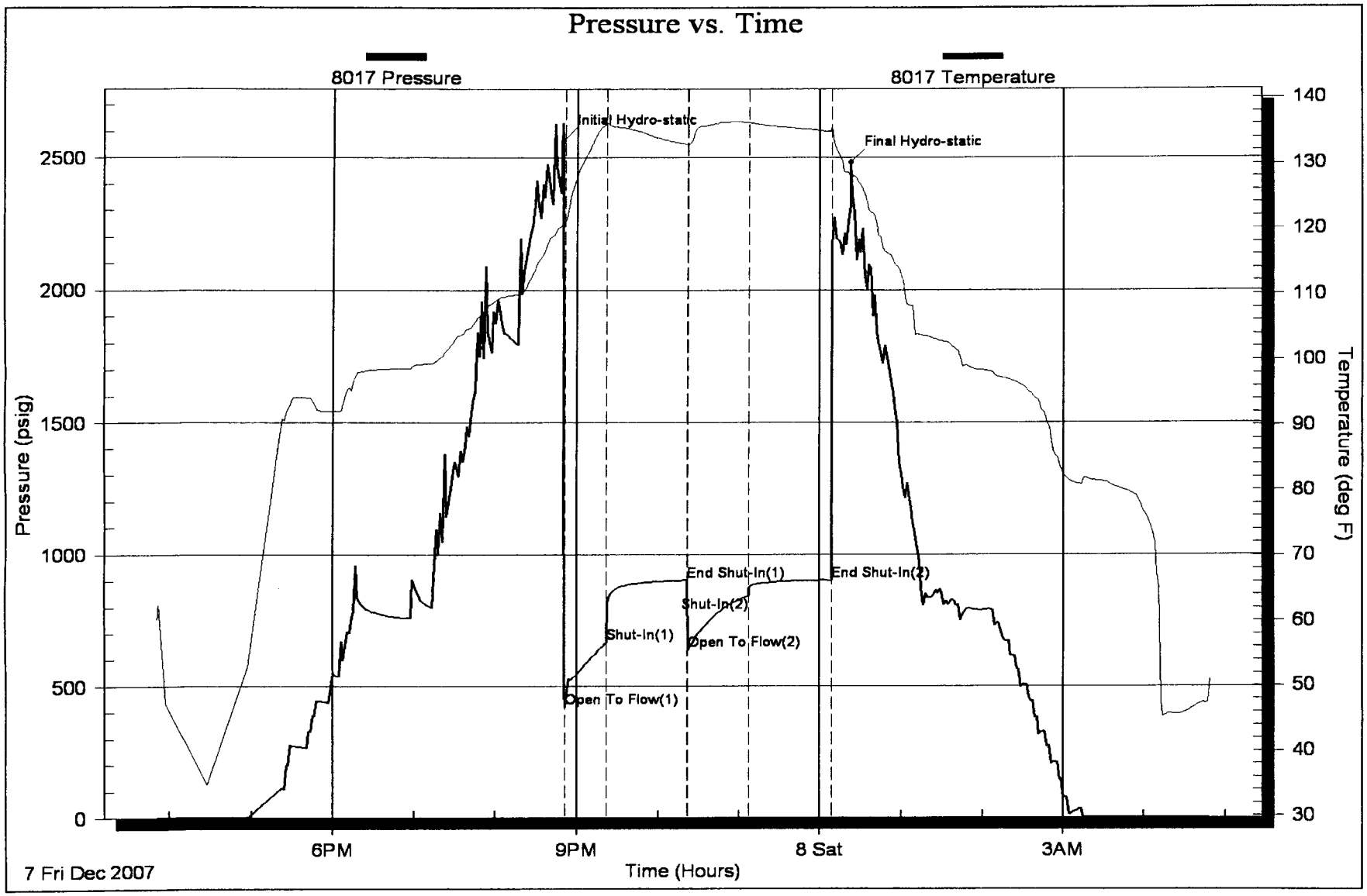
| Length ft | Description | Volume bbl |
|---|---|---|
| 91.00 | MCW 10%M 90%W | 0.448 |
| 641.00 | GMOCW 35%G 12%M 25%O 28%W | 5.411 |
| 1425.00 | GMOCW 65%G 7%M 13%O 15%W | 19.989 |
| 25.00 | 100%M | 0.351 |
| 0.00 | 855 Feet of GIP | 0.000 |

Total Length: 2182.00 ft Total Volume: 26.199 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW; .350 @ 50 degrees F = 28000 chlorides.


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
60
50
40
30
6PM
9PM
8 Sat
3AM
Time (Hours)
7 Fri Dec 2007