



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

**22-11S-15W Russell, KS**

213 W 7th  
PO Box 871  
Russell, KS 67665  
ATTN: Roger Fischer

**Miller #1**

Job Ticket: 60921

**DST#: 1**

Test Start: 2014.10.17 @ 18:32:30

## GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:39:30

Time Test Ended: 01:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

**Interval: 2721.00 ft (KB) To 2740.00 ft (KB) (TVD)**

Reference Elevations: 1854.00 ft (KB)

Total Depth: 2740.00 ft (KB) (TVD)

1849.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

**Serial #: 8651 Inside**

Press @ Run Depth: 62.62 psig @ 2722.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.17

End Date:

2014.10.18

Last Calib.: 2014.10.18

Start Time: 18:32:31

End Time:

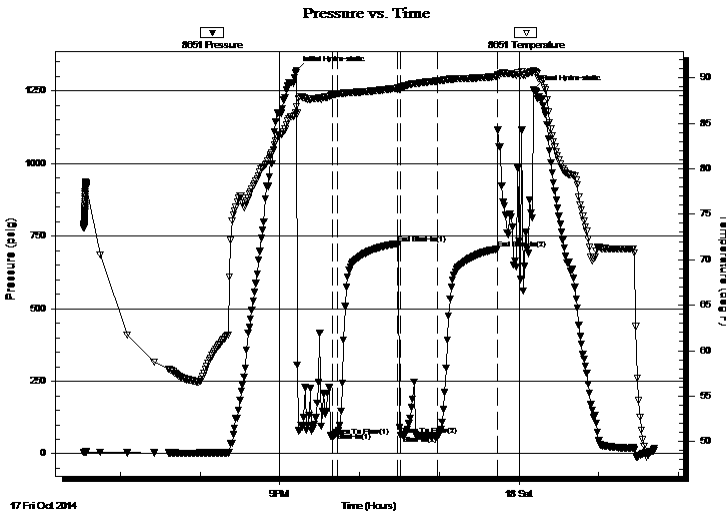
01:42:30

Time On Btm: 2014.10.17 @ 21:12:30

Time Off Btm: 2014.10.18 @ 00:11:00

**TEST COMMENT:** 30- IF- Slow ly built to 5"  
45- IS- No blow  
30- FF- Slow ly built to 3.5"  
45- FSI- No blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1320.96         | 86.83        | Initial Hydro-static |
| 27          | 60.42           | 88.12        | Open To Flow (1)     |
| 31          | 74.01           | 88.22        | Shut-In(1)           |
| 76          | 724.29          | 88.85        | End Shut-In(1)       |
| 79          | 64.00           | 88.91        | Open To Flow (2)     |
| 107         | 62.62           | 89.65        | Shut-In(2)           |
| 151         | 705.99          | 90.13        | End Shut-In(2)       |
| 179         | 1255.08         | 90.80        | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 1.00        | CO             | 0.01         |
| 30.00       | SOCM, 5%O 95%M | 0.22         |
|             |                |              |
|             |                |              |
|             |                |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil & Leasing, Inc.

**22-11S-15W Russell, KS**

213 W 7th  
PO Box 871  
Russell, KS 67665  
ATTN: Roger Fischer

**Miller #1**

Job Ticket: 60921

**DST#: 1**

Test Start: 2014.10.17 @ 18:32:30

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 1.00         | CO             | 0.007         |
| 30.00        | SOCM, 5%O 95%M | 0.220         |

Total Length: 31.00 ft      Total Volume: 0.227 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

