



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

DNOC  
PO Box 372  
Hays, Ks  
67601  
ATTN: Marc Downing

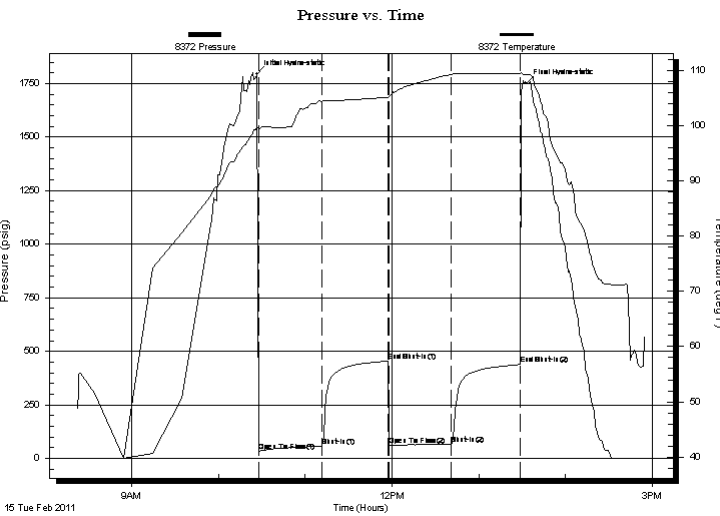
**Riedel Family A 1-26**  
**26-13-21/Trego**  
Job Ticket: 41780 **DST#: 1**  
Test Start: 2011.02.15 @ 08:22:32

## GENERAL INFORMATION:

Formation: **LKC "C-E"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:27:31  
Time Test Ended: 14:54:31  
Interval: **3683.00 ft (KB) To 3740.00 ft (KB) (TVD)**  
Total Depth: 3740.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
Reference Elevations: 2342.00 ft (KB)  
2334.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8372 Inside**  
Press @ Run Depth: 68.42 psig @ 3690.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.02.15 End Date: 2011.02.15 Last Calib.: 2011.02.15  
Start Time: 08:22:32 End Time: 14:54:31 Time On Btm: 2011.02.15 @ 10:26:31  
Time Off Btm: 2011.02.15 @ 13:32:31

**TEST COMMENT:** IFP - weak to fair blow 1/2" - 3 1/2"  
ISI - no blow back  
FFP - weak blow throughout sur - 2"  
FSI - no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1794.28         | 99.84        | Initial Hydro-static |
| 1           | 34.06           | 99.49        | Open To Flow (1)     |
| 45          | 57.98           | 104.40       | Shut-In(1)           |
| 91          | 454.30          | 105.12       | End Shut-In(1)       |
| 91          | 61.52           | 105.22       | Open To Flow (2)     |
| 135         | 68.42           | 109.26       | Shut-In(2)           |
| 182         | 438.20          | 109.42       | End Shut-In(2)       |
| 186         | 1750.25         | 109.22       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 85.00       | mud 100%    | 0.90         |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

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



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**FLUID SUMMARY**

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**Riedel Family A 1-26**

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**26-13-21/Trego**

Job Ticket: 41780

**DST#: 1**

ATTN: Marc Downing

Test Start: 2011.02.15 @ 08:22:32

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 85.00        | mud 100%    | 0.901         |

Total Length: 85.00 ft      Total Volume: 0.901 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

