



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

IA Operating Inc.  
 9915 W 21st ST.  
 STE B  
 Wichita KS 67205  
 ATTN: Jeff Lawler

**34 - 2S - 24W Norton KS**

**Marvin Wudtke #34-1**

Job Ticket: 56868 **DST#: 3**

Test Start: 2014.03.27 @ 06:56:00

## GENERAL INFORMATION:

Formation: **Penn. Sand - Granite**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:01:10

Time Test Ended: 12:20:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

**Interval: 3694.00 ft (KB) To 3740.00 ft (KB) (TVD)**

Reference Elevations: 2466.00 ft (KB)

Total Depth: 3740.00 ft (KB) (TVD)

2458.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6752 Inside**

Press@RunDepth: 22.61 psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.27 End Date: 2014.03.27

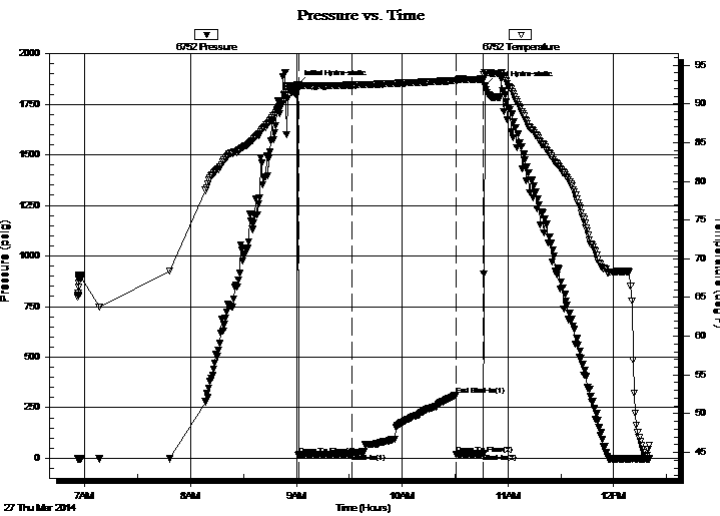
Last Calib.: 2014.03.27

Start Time: 06:56:01 End Time: 12:20:50

Time On Btm: 2014.03.27 @ 09:01:00

Time Off Btm: 2014.03.27 @ 10:46:50

**TEST COMMENT:** 30 IF - 1/2" blow built to 3/4" @ 5 mins died back to 1/4"  
 60 ISI - No return  
 30 FF - No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.89	92.36	Initial Hydro-static
1	14.49	91.97	Open To Flow (1)
31	22.61	92.43	Shut-In(1)
90	312.53	93.01	End Shut-In(1)
90	20.49	92.96	Open To Flow (2)
106	22.07	93.20	Shut-In(2)
106	1842.29	93.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% m	0.02

\* Recovery from multiple tests

## Gas Rates

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



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## FLUID SUMMARY

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STE B

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### 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100% <sub>m</sub>	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

