



**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: 56866 **DST#: 1**

Test Start: 2014.03.25 @ 16:39:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:33:20

Time Test Ended: 23:37:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 58

**Interval: 3422.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 2466.00 ft (KB)

Total Depth: 3510.00 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: 165.13 psig @ 3423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.25

End Date:

2014.03.25

Last Calib.:

2014.03.25

Start Time: 16:39:01

End Time:

23:37:10

Time On Btm:

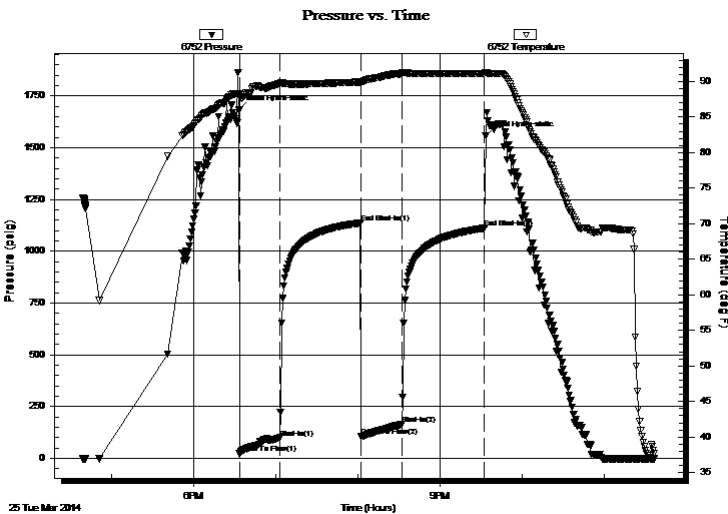
2014.03.25 @ 18:33:10

Time Off Btm:

2014.03.25 @ 21:33:20

**TEST COMMENT:** 30 IF - 1/2 blow built to BoB @ 14 mins  
60 ISI - No return  
30 FF - Surface blow built to BoB @ 17 mins  
60 FSI - No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.34	88.20	Initial Hydro-static
1	21.87	87.71	Open To Flow (1)
30	98.39	89.69	Shut-In(1)
89	1136.90	89.92	End Shut-In(1)
90	105.12	89.81	Open To Flow (2)
119	165.13	91.17	Shut-In(2)
180	1111.46	91.15	End Shut-In(2)
181	1557.44	91.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	WCM - 50%W - 50%M	4.14

## Gas Rates

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



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## FLUID SUMMARY

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**Marvin Wudtke #34-1**

STE B

Job Ticket: 56866

**DST#: 1**

Wichita KS 67205

Test Start: 2014.03.25 @ 16:39:00

ATTN: Jeff Lawler

### 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:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
315.00	WCM - 50%W - 50%M	4.136

Total Length: 315.00 ft      Total Volume: 4.136 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .452 @ 38 DEG F

CHLORIDES = 27,000 PPM

