



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Lob, LLC

P.O.Box 838  
Lawrenceville Il. 62439

ATTN: Jon Christensen

**33-27s-18w Kiowa Ks.**

**Unruh #5-33**

Job Ticket: 59746

**DST#: 1**

Test Start: 2015.03.14 @ 07:05:01

## GENERAL INFORMATION:

Formation: **KC. I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:03:31

Time Test Ended: 14:46:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 80

**Interval: 4404.00 ft (KB) To 4423.00 ft (KB) (TVD)**

Reference Elevations: 2207.00 ft (KB)

Total Depth: 4423.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8352 Outside**

Press @ Run Depth: 87.04 psig @ 4405.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.14

End Date:

2015.03.14

Last Calib.:

2015.03.14

Start Time: 07:05:06

End Time:

14:46:30

Time On Btm:

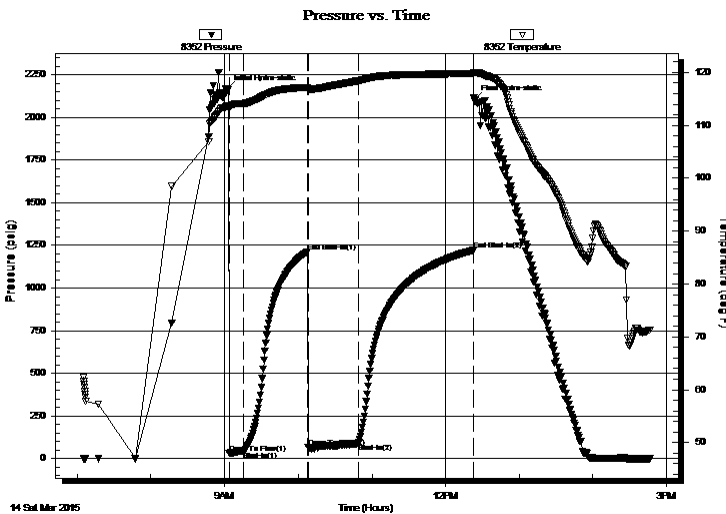
2015.03.14 @ 09:02:01

Time Off Btm:

2015.03.14 @ 12:23:31

**TEST COMMENT:** IF: Strong blow . B.O.B. in 6 1/2 mins.  
IS: Weak blow . 1/4 - 1/2". Dead in 25 mins.  
FF: Strong blow . B.O.B. in 5 mins.  
FS: Weak blow . 1/2 - 2".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.37	113.65	Initial Hydro-static
2	29.88	113.26	Open To Flow (1)
13	45.47	114.17	Shut-In(1)
66	1214.49	117.21	End Shut-In(1)
67	63.83	116.91	Open To Flow (2)
107	87.04	118.42	Shut-In(2)
201	1221.95	119.80	End Shut-In(2)
202	2103.86	119.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	GM&OCW 30%g 7%o 24%o 39%w	0.61
0.00	Rw .11 ohms @ 68 deg	0.00
62.00	GOCM 24%g 14%o 62%o	0.30
0.00	960 ft of GIP	0.00

## Gas Rates

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



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**FLUID SUMMARY**

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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:

76000 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	GM&OCW 30%g 7%m 24%o 39%w	0.610
0.00	Rw .11 ohms @ 68 deg	0.000
62.00	GOCM 24%g 14%o 62%m	0.305
0.00	960 ft of GIP	0.000

Total Length: 186.00 ft

Total Volume: 0.915 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

