



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
 P.O. Box 838  
 Lawrenceville, IL. 62439  
 ATTN: Jon Christensen

**5-28s-18w Kiowa, Co.**  
**Heft #4-5**  
 Job Ticket: 52001 **DST#: 2**  
 Test Start: 2014.04.03 @ 19:32:59

## GENERAL INFORMATION:

Formation: **Kansas City "I"**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 22:09:44  
 Time Test Ended: 03:27:29  
 Interval: **4430.00 ft (KB) To 4447.00 ft (KB) (TVD)**  
 Total Depth: 4447.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 53  
 Reference Elevations: 2232.00 ft (KB)  
 2219.00 ft (CF)  
 KB to GR/CF: 13.00 ft

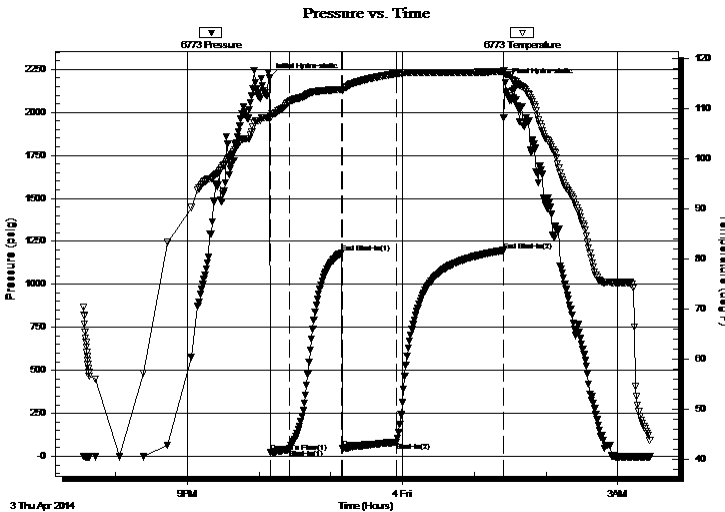
## Serial #: 6773

**Outside**

Press @ Run Depth: 84.45 psig @ 4431.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.03 End Date: 2014.04.04 Last Calib.: 2014.04.04  
 Start Time: 19:33:04 End Time: 03:27:28 Time On Btm: 2014.04.03 @ 22:08:44  
 Time Off Btm: 2014.04.04 @ 01:25:44

**TEST COMMENT:** IF: Strong blow . B.O.B., in 5 1/2 mins.  
 IS: Weak blow . Surf., to 1/2".  
 FF: Strong blow . B.O.B., in 12 mins,  
 FS: Weak blow . Surf., to 1".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.94	108.18	Initial Hydro-static
1	22.25	108.23	Open To Flow (1)
17	40.35	111.19	Shut-In(1)
61	1185.05	113.76	End Shut-In(1)
61	46.52	113.58	Open To Flow (2)
107	84.45	116.93	Shut-In(2)
196	1197.28	117.32	End Shut-In(2)
197	2174.21	116.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 15% m 85% w trc oil	0.30
60.00	GOMW 20% g 22% m 25% o 33% w	0.30
60.00	GOMW 15% g 15% o 25% w 45% m	0.30
0.00	496' G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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



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**FLUID SUMMARY**

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Lawrenceville, IL. 62439

**Heft #4-5**

Job Ticket: 52001

**DST#: 2**

ATTN: Jon Christensen

Test Start: 2014.04.03 @ 19:32:59

## 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:

51000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCW 15% <i>m</i> 85% <i>w</i> trc oil	0.295
60.00	GOMW 20% <i>g</i> 22% <i>m</i> 25% <i>o</i> 33% <i>w</i>	0.295
60.00	GOMW 15% <i>g</i> 15% <i>o</i> 25% <i>w</i> 45% <i>m</i>	0.295
0.00	496' G.I.P.	0.000

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Not enough oil for gravity check. Rw is .33 @ 32 degrees.

