



**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: 51950      **DST#: 1**  
Test Start: 2014.04.02 @ 18:26:23

## GENERAL INFORMATION:

Formation: **Lansing "A"**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 20:48:23  
Time Test Ended: 02:35:08  
Interval: **4231.00 ft (KB) To 4247.00 ft (KB) (TVD)**  
Total Depth: 4247.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Matt Smith  
Unit No: 53  
Reference Elevations: 2232.00 ft (KB)  
2219.00 ft (CF)  
KB to GR/CF: 13.00 ft

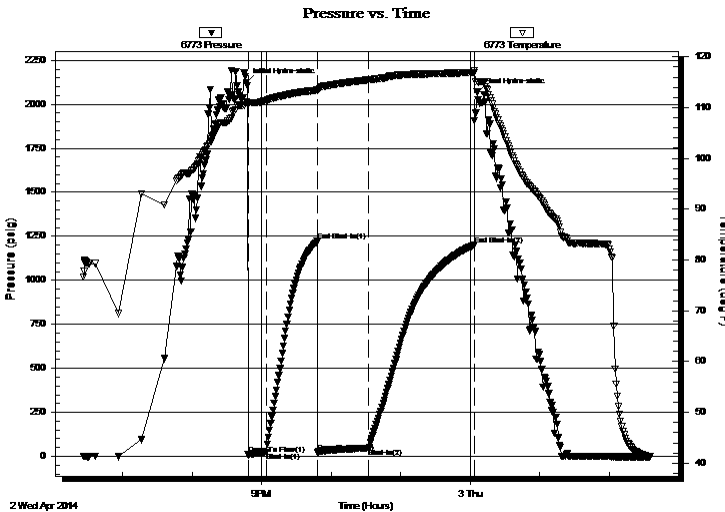
## Serial #: 6773

**Outside**

Press @ Run Depth: 47.70 psig @ 4232.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.04.02 End Date: 2014.04.03 Last Calib.: 2014.04.03  
Start Time: 18:26:28 End Time: 02:35:07 Time On Btm: 2014.04.02 @ 20:46:53  
Time Off Btm: 2014.04.03 @ 00:05:53

**TEST COMMENT:** IF: Strong blow . B.O.B. in 15 secs.  
IS: No blow .  
FF: Strong blow . B.O.B. in 1 min.  
FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.95	111.05	Initial Hydro-static
2	9.17	110.85	Open To Flow (1)
17	21.62	111.38	Shut-In(1)
61	1221.43	113.40	End Shut-In(1)
62	21.84	113.30	Open To Flow (2)
106	47.70	115.47	Shut-In(2)
197	1202.40	116.87	End Shut-In(2)
199	2068.46	115.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWCM 3%g 25%m 72%w	0.30
0.00	1,178' G.I.P.	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**5-28s-18w Kiowa, Co.**  
**Heft #4-5**  
Job Ticket: 51950      **DST#: 1**  
Test Start: 2014.04.02 @ 18:26:23

## 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:	55000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GWCM 3%g 25%m 72%w	0.295
0.00	1,178' G.I.P.	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: Water Rw .22 @ 40 degrees.

