



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
 P.O. Box 838  
 Lawrenceville, IL 62439  
 ATTN: Tom Pronhold

**14-33s-26w Meade Co., KS**  
**MadDog 1-14**  
 Job Ticket: 51986 **DST#: 4**  
 Test Start: 2014.05.26 @ 18:07:27

## GENERAL INFORMATION:

Formation: **Spergen - Warsaw**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 21:03:57  
 Time Test Ended: 03:47:27  
 Interval: **6475.00 ft (KB) To 6520.00 ft (KB) (TVD)**  
 Total Depth: 6520.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Reynolds  
 Unit No: 68  
 Reference Elevations: 2145.00 ft (KB)  
 2134.00 ft (CF)  
 KB to GR/CF: 11.00 ft

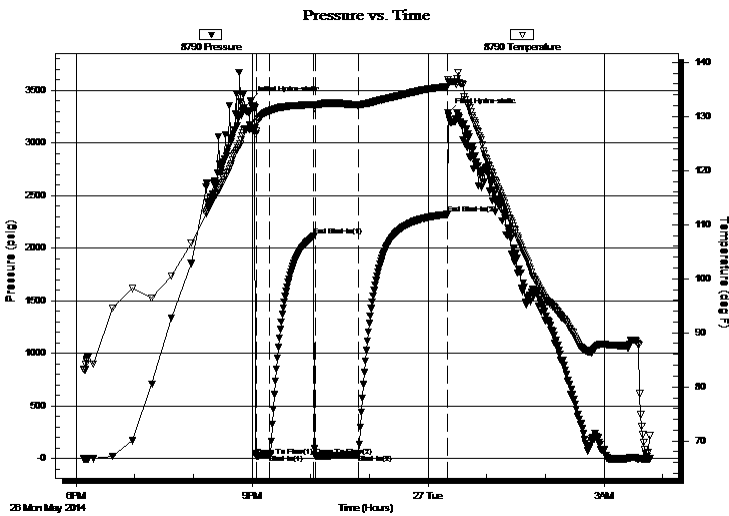
## Serial #: 8790

Inside

Press @ Run Depth: 39.37 psig @ 6479.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.26 End Date: 2014.05.27 Last Calib.: 2014.05.27  
 Start Time: 18:07:32 End Time: 03:47:27 Time On Btm: 2014.05.26 @ 20:58:42  
 Time Off Btm: 2014.05.27 @ 00:20:27

TEST COMMENT: IF: Strong blow . BOB @ 1min.  
 IS: No blow  
 FF: Strong blow . BOB immed. GTS @ 44min. TSTM  
 FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3402.60	127.75	Initial Hydro-static
6	23.84	127.26	Open To Flow (1)
20	37.39	131.03	Shut-In(1)
65	2115.27	132.23	End Shut-In(1)
66	22.32	131.81	Open To Flow (2)
111	39.37	132.10	Shut-In(2)
201	2323.64	135.53	End Shut-In(2)
202	3292.25	136.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig mud 100% m	0.10

\* Recovery from multiple tests

## 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: Tom Pronhold

**14-33s-26w Meade Co., KS**  
**MadDog 1-14**  
Job Ticket: 51986      **DST#: 4**  
Test Start: 2014.05.26 @ 18:07:27

## 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:	4400 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig mud 100%m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

