



**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: 51983 **DST#: 1**
Test Start: 2014.05.22 @ 01:47:14

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 04:17:59
Time Test Ended: 08:50:14
Interval: **5100.00 ft (KB) To 5145.00 ft (KB) (TVD)**
Total Depth: 5145.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 2145.00 ft (KB)
2134.00 ft (CF)
KB to GR/CF: 11.00 ft

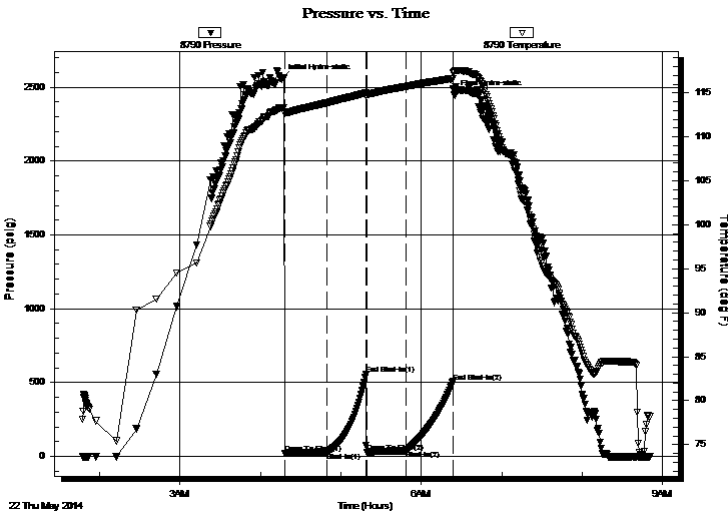
Serial #: 8790

Inside

Press@RunDepth: 38.77 psig @ 5104.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.22 End Date: 2014.05.22 Last Calib.: 2014.05.22
Start Time: 01:47:19 End Time: 08:50:13 Time On Btm: 2014.05.22 @ 04:15:44
Time Off Btm: 2014.05.22 @ 06:24:29

TEST COMMENT: IF: Weak blow . surf. - 1"
IS: No blow
FF: Fair blow . 1/2" - 4"
FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2556.16	113.34	Initial Hydro-static
3	19.97	112.66	Open To Flow (1)
34	29.20	113.87	Shut-In(1)
63	553.99	115.01	End Shut-In(1)
64	26.66	114.85	Open To Flow (2)
93	38.77	115.74	Shut-In(2)
128	506.74	116.64	End Shut-In(2)
129	2449.51	117.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	VSLIOCM 1%o, 99% m	0.10
0.00	290' 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:	4400 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in ³	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	VSLI OCM 1%o, 99%m	0.098
0.00	290' GIP	0.000

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:

