



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
3118 Cummings Rd  
Garden City, KS 67846  
ATTN: Kurt Talbott

**26-11s-33w Logan, KS**

**Bertrand 2-26**

Job Ticket: 55637

**DST#: 2**

Test Start: 2014.02.24 @ 05:40:51

## GENERAL INFORMATION:

Formation: **H-I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:41:21  
 Time Test Ended: 13:31:51  
 Interval: **4224.00 ft (KB) To 4275.00 ft (KB) (TVD)**  
 Total Depth: 4275.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3117.00 ft (KB)  
 3109.00 ft (CF)  
 KB to GR/CF: 8.00 ft

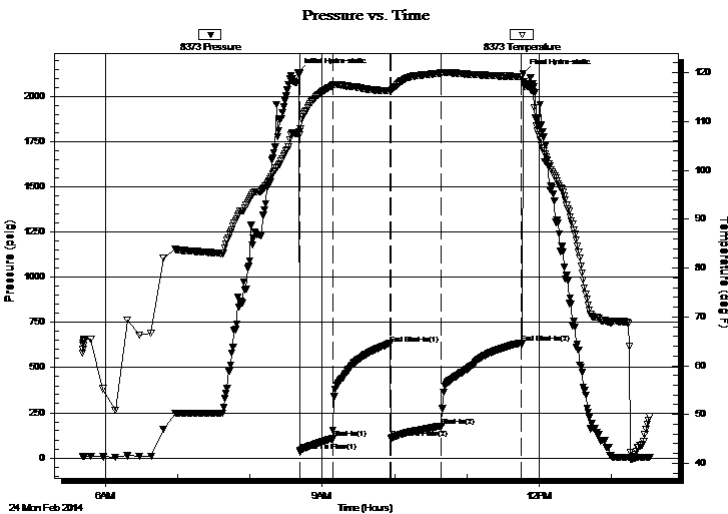
## Serial #: 8373

Inside

Press@RunDepth: 176.78 psig @ 4225.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.24 Last Calib.: 2014.02.24  
 Start Time: 05:40:56 End Time: 13:31:50 Time On Btm: 2014.02.24 @ 08:39:51  
 Time Off Btm: 2014.02.24 @ 11:46:51

TEST COMMENT: IF: BOB in 16 min.  
 IS: No return.  
 FF: BOB in 32 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.62	107.63	Initial Hydro-static
2	37.56	107.26	Open To Flow (1)
29	106.15	117.35	Shut-In(1)
76	632.67	116.28	End Shut-In(1)
77	109.71	116.21	Open To Flow (2)
119	176.78	119.96	Shut-In(2)
186	637.67	119.19	End Shut-In(2)
187	2126.21	118.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 80%w 20%m	1.74
124.00	mcw 40%w 60%m	1.74
92.00	ocw m 2%o 28%w 70%m	1.29
10.00	free oil 100%o	0.14

\* Recovery from multiple tests

## Gas Rates

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



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## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 53000 ppm
Viscosity: 57.00 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: 3000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 80%w 20%m	1.739
124.00	mcw 40%w 60%m	1.739
92.00	ocw m 2%o 28%w 70%m	1.291
10.00	free oil 100%o	0.140

Total Length: 350.00 ft      Total Volume: 4.909 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: .22@46=53000

