



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Beren Corporation  
P.O. Box 20380  
Wichita, KS 67208-1380  
ATTN: Jim Hickman

**DEAN #5**  
**35-33s-11w-BA-KS**  
Job Ticket: 38780      **DST#: 1**  
Test Start: 2010.08.05 @ 17:42:00

## GENERAL INFORMATION:

Formation: **PAWNEE**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:42:20  
Time Test Ended: 03:24:30  
Interval: **4499.00 ft (KB) To 4525.00 ft (KB) (TVD)**  
Total Depth: 4525.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jake Fahrenbruch  
Unit No: 43  
Reference Elevations: 1457.00 ft (KB)  
1445.00 ft (CF)  
KB to GR/CF: 12.00 ft

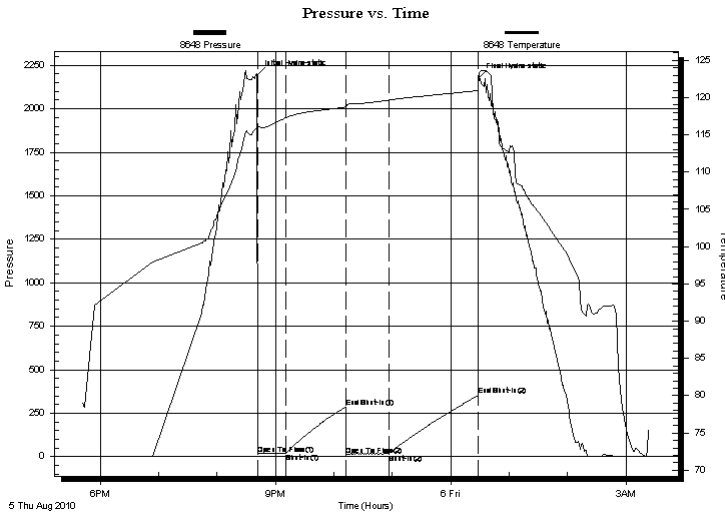
## Serial #: 8648

Inside

Press @ Run Depth: 16.56 psig @ 4500.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2010.08.05 End Date: 2010.08.06 Last Calib.: 2010.08.06  
Start Time: 17:42:05 End Time: 03:24:30 Time On Btm: 2010.08.05 @ 20:41:30  
Time Off Btm: 2010.08.06 @ 00:29:20

**TEST COMMENT:** IF: Fair blow, built to BOB in 17.5 minutes.  
IS: Bled off, no blow back.  
FF: Fairly strong blow, BOB 10 seconds.  
FS: Bled off, no blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.10	115.83	Initial Hydro-static
1	15.39	115.80	Open To Flow (1)
30	17.91	117.30	Shut-In(1)
91	285.90	118.73	End Shut-In(1)
91	9.10	118.66	Open To Flow (2)
136	16.56	119.66	Shut-In(2)
227	350.97	120.94	End Shut-In(2)
228	2180.13	123.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud 100% m	0.05
0.00	450' Gas In Pipe	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:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud 100% <sub>m</sub>	0.049
0.00	450' Gas In Pipe	0.000

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time

