



**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: 38784      **DST#: 5**  
Test Start: 2010.08.10 @ 08:57:00

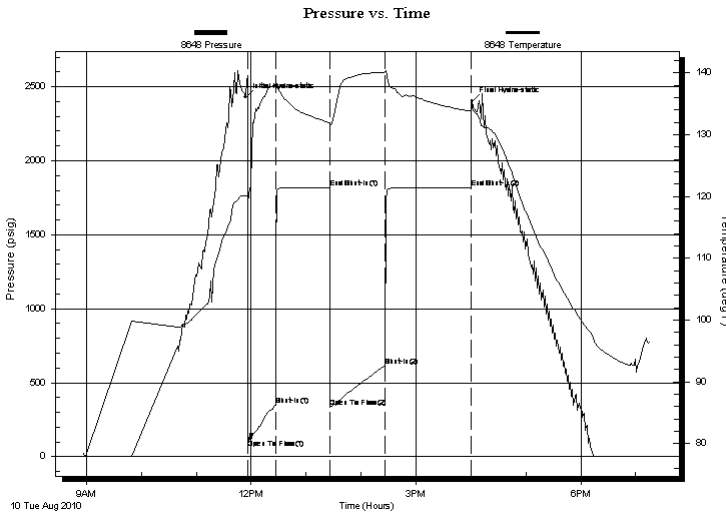
## GENERAL INFORMATION:

Formation: **SIMPSON**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:56:30  
Time Test Ended: 19:17:10  
Interval: **5015.00 ft (KB) To 5053.00 ft (KB) (TVD)**  
Total Depth: 5053.00 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: 614.97 psig @ 5016.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.08.10      End Date: 2010.08.10      Last Calib.: 2010.08.10  
Start Time: 08:57:05      End Time: 19:17:10      Time On Btm: 2010.08.10 @ 11:53:50  
Time Off Btm: 2010.08.10 @ 16:01:20

**TEST COMMENT:** IF: Fairly strong blow, increased to BOB in 11.5 minutes.  
IS: Bled off, weak surface blow back.  
FF: Fairly strong blow, increased to BOB in 11.5 minutes.  
FS: Bled off, weak blow back built to 1" in

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2426.72	120.06	Initial Hydro-static
3	56.39	118.85	Open To Flow (1)
33	351.45	138.15	Shut-In(1)
93	1819.87	131.90	End Shut-In(1)
93	336.15	131.48	Open To Flow (2)
153	614.97	140.18	Shut-In(2)
247	1818.82	133.81	End Shut-In(2)
248	2400.01	134.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
825.00	Water 100%w	6.38
375.00	GCM&M 10%g 40%w 50%m	5.26
0.00	450' GIP	0.00
0.00	92,000 ppm chlorides.	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:	92000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
825.00	Water 100%w	6.380
375.00	GCW&M 10%g 40%w 50%m	5.260
0.00	450' GIP	0.000
0.00	92,000 ppm chlorides.	0.000

Total Length: 1200.00 ft      Total Volume: 11.640 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

