



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Grand Mesa Operating Inc.

**Phelps 8-31**

1700 N Waterfront Pkw y  
Bldg 600  
Wichita Ks 67206  
ATTN: Bob Peterson

**31-13s-31w Gove KS**

Job Ticket: 040181

**DST#: 1**

Test Start: 2010.10.28 @ 09:15:15

## GENERAL INFORMATION:

Formation: **Marrow-Johnson-Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:46:45

Time Test Ended: 15:38:45

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 48

**Interval: 4560.00 ft (KB) To 4643.00 ft (KB) (TVD)**

Reference Elevations: 2922.00 ft (KB)

Total Depth: 4643.00 ft (KB) (TVD)

2917.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8358**

**Inside**

Press @ Run Depth: 64.92 psig @ 4641.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.28

End Date:

2010.10.28

Last Calib.:

2010.10.28

Start Time: 09:15:15

End Time:

15:38:45

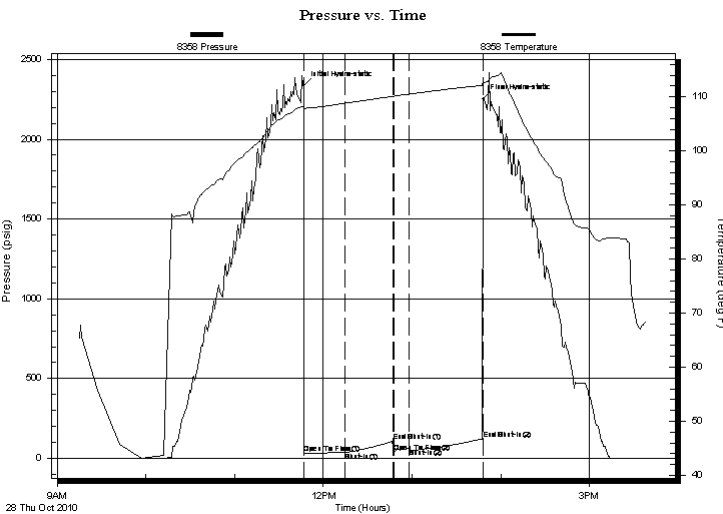
Time On Btm:

2010.10.28 @ 11:46:30

Time Off Btm:

2010.10.28 @ 13:48:00

**TEST COMMENT:** IF: Built to 1/2 blow  
IS: No return blow  
FF: No blow  
FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.35	108.22	Initial Hydro-static
1	30.31	107.52	Open To Flow (1)
28	36.41	108.81	Shut-In(1)
61	106.92	110.09	End Shut-In(1)
61	40.69	110.09	Open To Flow (2)
72	64.92	110.51	Shut-In(2)
122	121.21	112.15	End Shut-In(2)
122	2253.16	112.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% m	0.02

## 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

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 9.16 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

