



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039680 **DST#: 1**
Test Start: 2010.10.16 @ 13:50:33

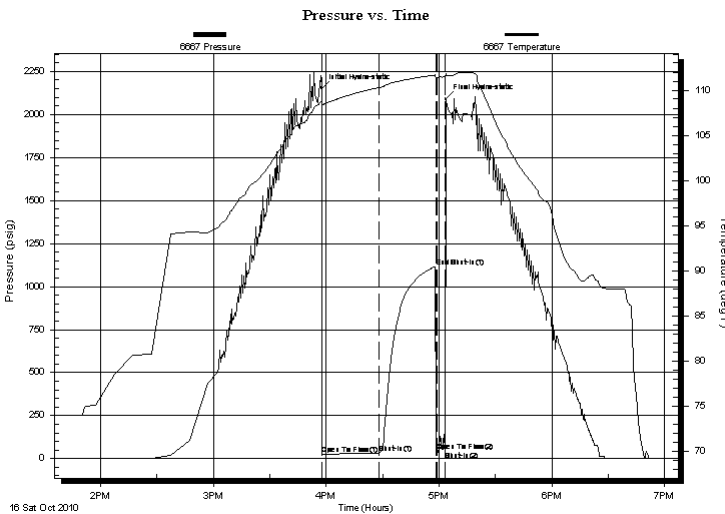
GENERAL INFORMATION:

Formation: **L**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **15:57:48** Tester: **Shane McBride**
 Time Test Ended: **19:05:03** Unit No: **40**
Interval: 4281.00 ft (KB) To 4335.00 ft (KB) (TVD) Reference Elevations: **2953.00 ft (KB)**
 Total Depth: **4335.00 ft (KB) (TVD)** **2948.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 6667 **Inside**
 Press @ Run Depth: **32.81 psig @ 4282.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.10.16** End Date: **2010.10.16** Last Calib.: **2010.10.16**
 Start Time: **13:50:33** End Time: **18:52:03** Time On Btm: **2010.10.16 @ 15:57:33**
 Time Off Btm: **2010.10.16 @ 17:03:48**

TEST COMMENT: Weak 1/4" in blow died in 9 min.
 No return
 No blow, pull tool after 5 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.20	108.84	Initial Hydro-static
1	24.80	108.16	Open To Flow (1)
31	32.81	110.29	Shut-In(1)
61	1116.37	111.70	End Shut-In(1)
62	45.13	111.40	Open To Flow (2)
66	40.66	111.47	Shut-In(2)
67	2090.13	111.70	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks
ATTN: Steve Carl

Phelps #7-31
31-13-31 Gove, Ks
Job Ticket: 039680 **DST#: 1**
Test Start: 2010.10.16 @ 13:50:33

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:	0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 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

