



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling  
1700 N. Waterfront PKWY  
B #1200  
Wichita, KS 67206  
ATTN: Phil Askey

**WF- Michel A #1-30**  
**S30-18-45 Kiowa, CO**  
Job Ticket: 43385      **DST#: 1**  
Test Start: 2011.07.12 @ 20:43:00

## GENERAL INFORMATION:

Formation: **Ft. Scott Marmaton**  
Deviated: No      Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole  
Time Tool Opened: 22:55:00      Tester: Chuck Smith  
Time Test Ended: 03:04:39      Unit No: 37  
**Interval: 4111.00 ft (KB) To 4172.00 ft (KB) (TVD)**      Reference Elevations: 3976.00 ft (KB)  
Total Depth: 4172.00 ft (KB) (TVD)      3965.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 11.00 ft

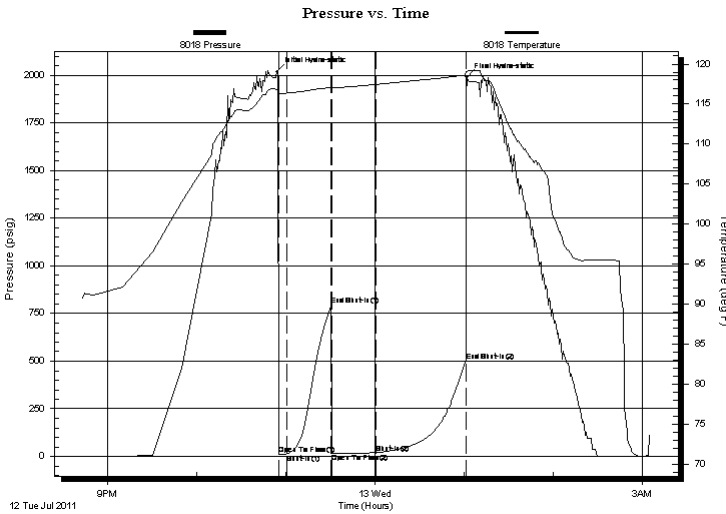
## Serial #: 8018

Inside

Press @ Run Depth: 19.01 psig @ 4114.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.07.12      End Date: 2011.07.13      Last Calib.: 2011.07.13  
Start Time: 20:43:02      End Time: 03:04:40      Time On Btm: 2011.07.12 @ 22:54:00  
Time Off Btm: 2011.07.13 @ 01:01:39

TEST COMMENT: IF: 1/2" Blow died @ 4 min.  
IS: No return.  
FF: No blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.01	116.85	Initial Hydro-static
1	11.71	115.64	Open To Flow (1)
7	13.41	116.39	Shut-In(1)
37	792.99	117.07	End Shut-In(1)
37	15.58	116.82	Open To Flow (2)
67	19.01	117.45	Shut-In(2)
127	501.80	118.62	End Shut-In(2)
128	1991.02	119.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100m	0.07

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM 100m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

