



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Mull Drilling Co, Inc

1700 Waterfront PKWY B #1200  
Wichita, Ks 67206

ATTN: Phill Askey

**APC Tennell #1-33**

**33 17s 45w Kiowa, Co**

Job Ticket: 43653

**DST#: 3**

Test Start: 2011.08.02 @ 22:07:00

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:52:30

Time Test Ended: 06:20:20

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 4881.00 ft (KB) To 5058.00 ft (KB) (TVD)**

Reference Elevations: 4009.00 ft (KB)

Total Depth: 5058.00 ft (KB) (TVD)

3998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

**Serial #: 8018 Inside**

Press @ Run Depth: 70.46 psig @ 4884.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.02

End Date:

2011.08.03

Last Calib.: 2011.08.03

Start Time: 22:07:02

End Time:

06:20:20

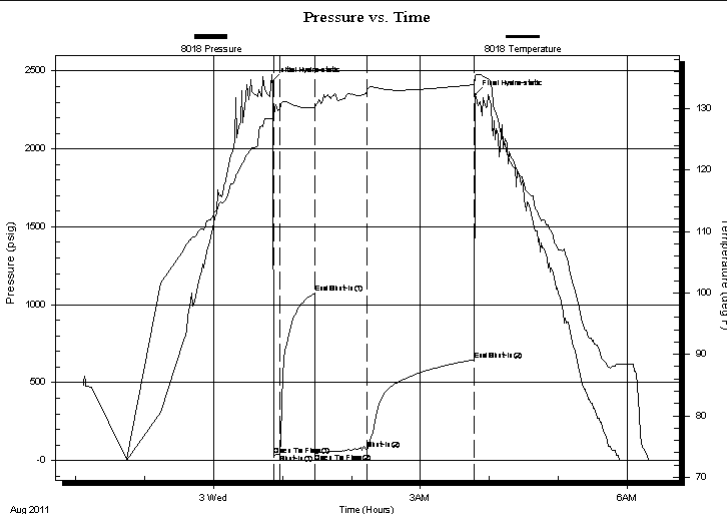
Time On Btm: 2011.08.03 @ 00:50:50

Time Off Btm: 2011.08.03 @ 03:47:50

TEST COMMENT: IF: 1 1/2" Blow .  
IS: No return.  
FF: 1/2" Blow died @ 25 min.  
FS: No return.

### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2430.18	128.38	Initial Hydro-static
2	34.25	128.88	Open To Flow (1)
7	41.91	129.83	Shut-In(1)
38	1074.75	130.13	End Shut-In(1)
38	45.38	129.91	Open To Flow (2)
83	70.46	132.85	Shut-In(2)
176	646.84	133.85	End Shut-In(2)
178	2346.43	135.39	Final Hydro-static



### Recovery

Length (ft)	Description	Volume (bbl)
70.00	M 100m	0.34

### 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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	M 100m	0.344

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

