



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: 43654

DST#: 4

Test Start: 2011.08.03 @ 22:39:00

GENERAL INFORMATION:

Formation: **Miss. - Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:44:00

Time Test Ended: 06:37:50

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 5058.00 ft (KB) To 5116.00 ft (KB) (TVD)

Total Depth: 5116.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 4009.00 ft (KB)

3998.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press @ RunDepth: 121.72 psig @ 5061.00 ft (KB)

Start Date: 2011.08.03

End Date:

2011.08.04

Start Time: 22:39:02

End Time:

06:37:50

Capacity: 8000.00 psig

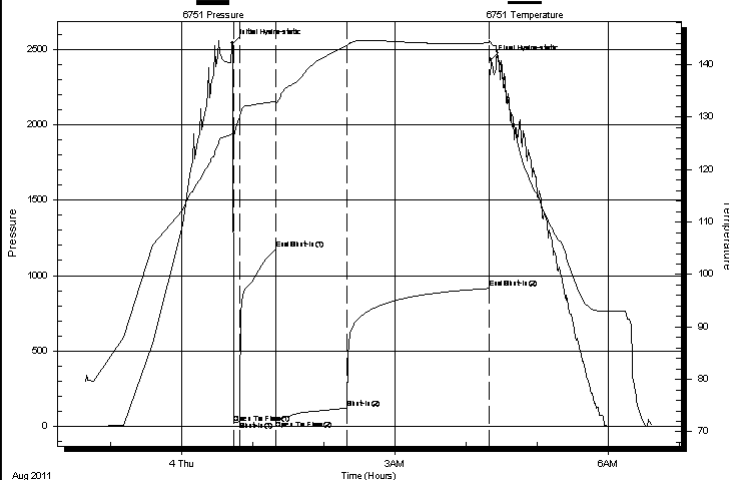
Last Calib.: 2011.08.04

Time On Btm: 2011.08.04 @ 00:42:50

Time Off Btm: 2011.08.04 @ 04:21:09

TEST COMMENT: IF: 1' Blow .
IS: No return.
FF: 6" Blow .
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2539.98	126.91	Initial Hydro-static
2	17.93	125.59	Open To Flow (1)
7	34.54	129.86	Shut-In(1)
37	1175.54	133.01	End Shut-In(1)
37	37.39	132.34	Open To Flow (2)
97	121.72	143.66	Shut-In(2)
217	915.48	144.16	End Shut-In(2)
219	2432.69	144.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 10m 90w	0.59
120.00	WM 35m 65w	1.14

Gas Rates

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

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DST#: 4

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Test Start: 2011.08.03 @ 22:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 11000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 10m 90w	0.590
120.00	WM 35m 65w	1.137

Total Length: 240.00 ft Total Volume: 1.727 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW:.620 @ 64 Degrees F = PPM

Pressure vs. Time

