



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company

1700 N. Waterfront PKWY B #1200
Wichita, Ks 67206

ATTN: Phil Askay

APC- Tallman 2-3

3-18s-45w Kiowa, Co

Job Ticket: 042061

DST#: 2

Test Start: 2011.03.11 @ 06:00:42

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:21:37

Time Test Ended: 14:36:22

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4005.00 ft (KB) To 4035.00 ft (KB) (TVD)

Total Depth: 4035.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 4001.00 ft (KB)

3991.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 330.23 psig @ 4006.00 ft (KB)

Start Date: 2011.03.11

End Date:

2011.03.11

Start Time: 06:00:42

End Time:

14:36:22

Capacity: 8000.00 psig

Last Calib.: 2011.03.11

Time On Btm: 2011.03.11 @ 08:20:22

Time Off Btm: 2011.03.11 @ 11:56:51

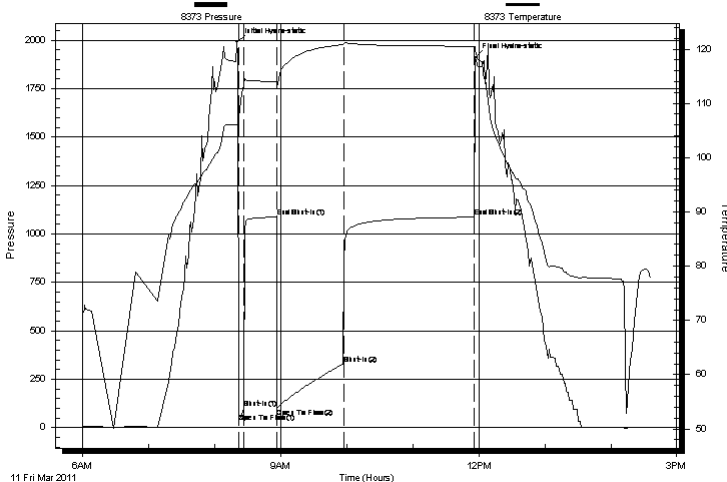
TEST COMMENT: IF: 1/4 blow built to 6 in 5 min.

IS: No return.

FF: Surface blow BOB in 9 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.99	106.03	Initial Hydro-static
2	29.94	105.80	Open To Flow (1)
6	99.77	113.53	Shut-In(1)
36	1087.38	113.92	End Shut-In(1)
36	101.27	113.27	Open To Flow (2)
97	330.23	120.84	Shut-In(2)
216	1086.02	120.38	End Shut-In(2)
217	1908.23	119.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocmw 5%o 85%w 10%m	0.61
124.00	gocmw 10%g 20%o 60%w 10%m	1.22
310.00	gocw m 20%g 30%o 20%w 30%m	4.35
196.00	gocm 5%g 35%o 60%m	2.75

Gas Rates

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

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Test Start: 2011.03.11 @ 06:00:42

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 40.00 sec/qt

Water Loss: 8.78 in³

Resistivity: 0.00 ohm.m

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

32 deg API

Water Salinity:

10000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	ocmw 5%o 85%w 10%m	0.610
124.00	gocmw 10%g 20%o 60%w 10%m	1.220
310.00	gocw m 20%g 30%o 20%w 30%m	4.348
196.00	gocm 5%g 35%o 60%m	2.749

Total Length: 754.00 ft

Total Volume: 8.927 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 35@90=32

.60@72=10000

