



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Co, Inc

1700 Waterfront PKWY B #1200
Wichita, Ks 67206

ATTN: Phill Askey

APC Tallman #3-3

3 18s 45w Kiowa, Co

Job Ticket: 43893

DST#: 2

Test Start: 2011.09.26 @ 22:44:00

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:01:30

Time Test Ended: 07:15:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 48

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

Total Depth: 4040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3997.00 ft (KB)

3986.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8646

Press @ Run Depth: 94.37 psig @ ft (KB)

Start Date: 2011.09.26

End Date:

2011.09.27

Start Time: 22:44:00

End Time:

07:13:45

Capacity: 8000.00 psig

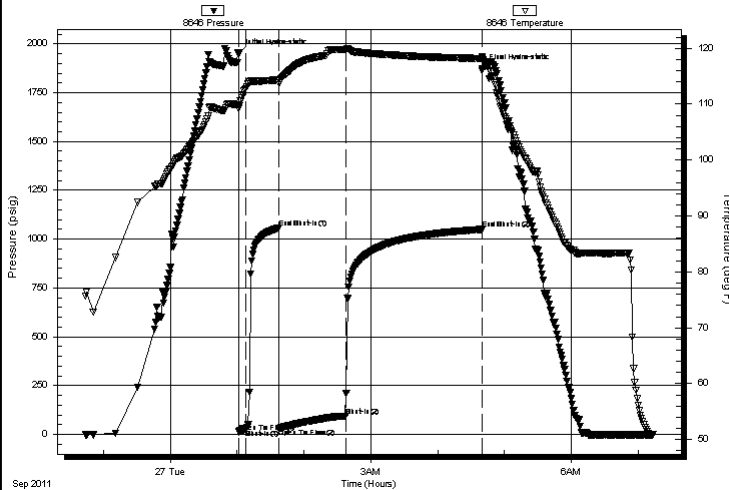
Last Calib.: 2011.09.27

Time On Btm: 2011.09.27 @ 01:01:15

Time Off Btm: 2011.09.27 @ 04:39:45

TEST COMMENT: IF- Surface Blow Built to 2"
ISI- No Blow
FF- Surface Blow Built to 4 1/2"
FSI- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.73	109.90	Initial Hydro-static
1	12.76	109.16	Open To Flow (1)
7	26.23	112.74	Shut-In(1)
37	1056.65	114.34	End Shut-In(1)
37	31.01	113.77	Open To Flow (2)
97	94.37	119.74	Shut-In(2)
219	1050.19	118.18	End Shut-In(2)
219	1871.69	118.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	GOWCM 5%g 5%oil 20%w 70%m	0.64
60.00	OGMCW 2%oil 3%g 45%m 50%w	0.39

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 2

ATTN: Phill Askey

Test Start: 2011.09.26 @ 22:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity: 57000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	GOWCM 5%g 5%oil 20%w 70%m	0.639
60.00	OGMCW 2%oil 3%g 45%m 50%w	0.386

Total Length: 190.00 ft Total Volume: 1.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .914 @ 53f = 57000

