



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: 042245

DST#: 1

Test Start: 2011.07.29 @ 04:46:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:25:00

Time Test Ended: 14:34:30

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4050.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: 4070.00 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 #: 8652 Inside

Press @ Run Depth: 318.28 psig @ 4051.00 ft (KB)

Start Date: 2011.07.29

End Date:

2011.07.29

Start Time: 04:46:05

End Time:

14:34:30

Capacity: 8000.00 psig

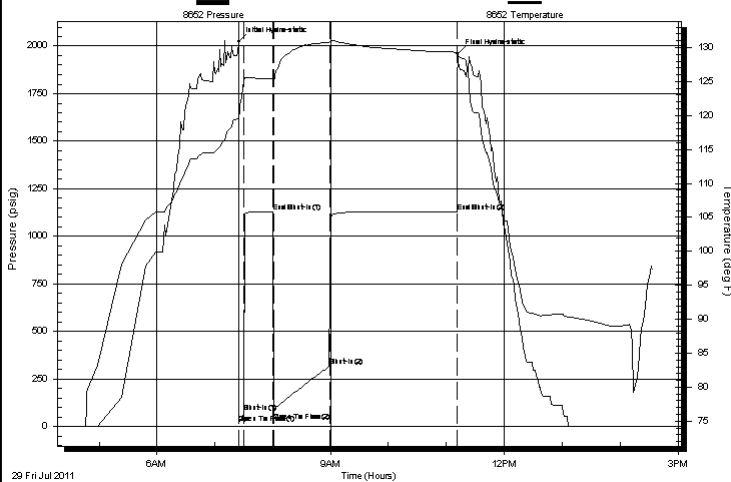
Last Calib.: 2011.07.29

Time On Btm: 2011.07.29 @ 07:24:45

Time Off Btm: 2011.07.29 @ 11:11:45

TEST COMMENT: IF: 4 1/2 inches blow .
IS: No return blow .
FF: BOB @ 11 minutes.
FS: No return blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.76	119.60	Initial Hydro-static
1	19.28	118.70	Open To Flow (1)
6	74.23	125.06	Shut-In(1)
36	1130.80	125.35	End Shut-In(1)
36	75.84	124.99	Open To Flow (2)
95	318.28	130.81	Shut-In(2)
227	1130.56	129.34	End Shut-In(2)
227	1959.18	129.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
750.00	mcw 10m 90w (H2s Gas)	7.26

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co, Inc

APC Tennell #1-33

1700 Waterfront PKWY B #1200
Wichita, Ks 67206

33 17s 45w Kiowa, Co

Job Ticket: 042245

DST#: 1

ATTN: Phill Askey

Test Start: 2011.07.29 @ 04:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

21000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
750.00	mcw 10m 90w (H2s Gas)	7.259

Total Length: 750.00 ft

Total Volume: 7.259 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .240 @ 90f = 21000ppm

