



**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: 44484

DST#: 1

Test Start: 2011.09.25 @ 16:16:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:29:45

Time Test Ended: 00:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 40

Interval: 3816.00 ft (KB) To 3840.00 ft (KB) (TVD)

Total Depth: 3840.00 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 #: 8652 Inside

Press @ Run Depth: 124.43 psig @ 3817.00 ft (KB)

Start Date: 2011.09.25

End Date:

2011.09.26

Start Time: 16:16:05

End Time:

00:17:29

Capacity: 8000.00 psig

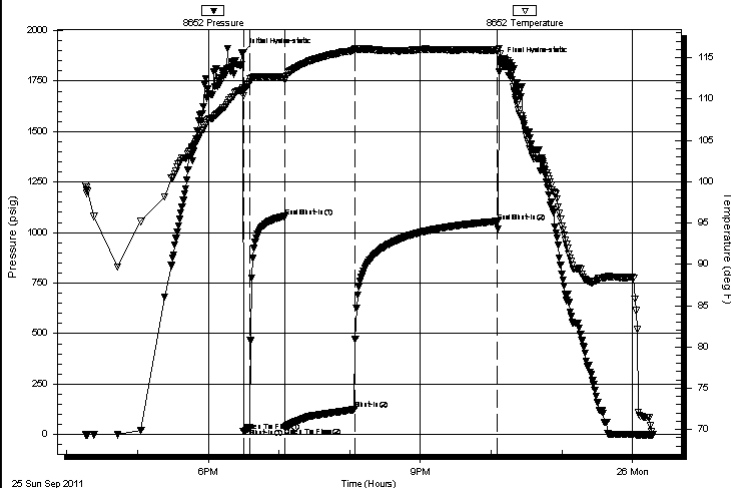
Last Calib.: 2011.09.26

Time On Btm: 2011.09.25 @ 18:29:30

Time Off Btm: 2011.09.25 @ 22:07:15

TEST COMMENT: IF: 1" blow
IS: No return blow.
FF: BOB @ 57 minutes.
FS: No return blow.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1892.41 | 111.34 | Initial Hydro-static |
| 1 | 16.19 | 110.40 | Open To Flow (1) |
| 6 | 33.63 | 112.05 | Shut-In(1) |
| 35 | 1079.68 | 112.73 | End Shut-In(1) |
| 36 | 37.27 | 112.30 | Open To Flow (2) |
| 95 | 124.43 | 115.95 | Shut-In(2) |
| 216 | 1055.60 | 115.92 | End Shut-In(2) |
| 218 | 1848.02 | 115.44 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 260.00 | w cm 40w 60m | 2.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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FLUID SUMMARY

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APC Tallman #3-3

1700 Waterfront PKWY B #1200
Wichita, Ks 67206

3 18s 45w Kiowa, Co

Job Ticket: 44484

DST#: 1

ATTN: Phill Askey

Test Start: 2011.09.25 @ 16:16:00

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:

13000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 260.00 | w cm 40w 60m | 2.007 |

Total Length: 260.00 ft

Total Volume: 2.007 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .50 @ 69 = 13000ppm

Serial #: 8652

Inside

Mull Drilling Co. Inc

3 1/8s 45w Kiow a. Co

DST Test Number: 1

