



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

ATHornburg C #1-4

1700 N. Waterfront Parkw ay
 Building 1200
 Wichita, KS. 67206
 ATTN: Kevin Kessler

4-20s-23w-Ness

Job Ticket: 39040

DST#: 3

Test Start: 2010.08.24 @ 17:49:38

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:53

Time Test Ended: 02:58:38

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4440.00 ft (KB) To 4505.00 ft (KB) (TVD)

Reference Elevations: 2584.00 ft (KB)

Total Depth: 4505.00 ft (KB) (TVD)

2575.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6755

Inside

Press @RunDepth: 218.71 psig @ 4477.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.24

End Date:

2010.08.25

Last Calib.:

2010.08.25

Start Time: 17:49:40

End Time:

02:58:38

Time On Btm:

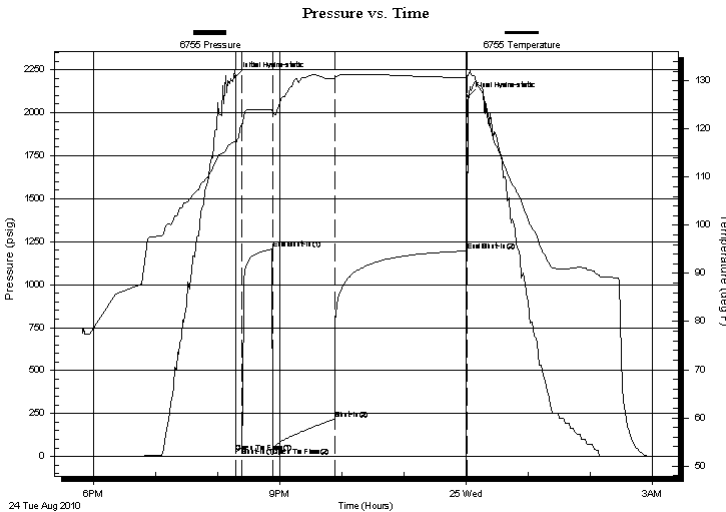
2010.08.24 @ 20:17:23

Time Off Btm:

2010.08.25 @ 00:02:08

TEST COMMENT: IFP-Fair Blow ,Built to 6"
 ISI-Dead
 FFP-Good Blow ,BOB in 11 Min.
 FSI-Blow back Built to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.52	117.61	Initial Hydro-static
1	22.97	116.82	Open To Flow (1)
6	51.85	120.81	Shut-In(1)
36	1206.64	123.93	End Shut-In(1)
36	53.58	123.31	Open To Flow (2)
96	218.71	130.35	Shut-In(2)
224	1196.10	130.67	End Shut-In(2)
225	2095.25	130.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Frothy Muddy Oil-30%G-40%O-30%M	4.21
220.00	Gassy Oil-20%G-80%O	3.09
0.00	320' Gas In Pipe	0.00

Gas Rates

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



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 3600.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 37 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Frothy Muddy Oil-30%G-40%O-30%M	4.208
220.00	Gassy Oil-20%G-80%O	3.086
0.00	320' Gas In Pipe	0.000

Total Length: 520.00 ft Total Volume: 7.294 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

