

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc.**

CONFIDENTIAL
Box 2758
Wichita KS. 67201-2758
ORIGINAL KCC

ATTN: Kevin Kessler

JUL 07 2005

CONFIDENTIAL
21-16S-23W-Ness

Buxton #1-21

Start Date: 2005.04.18 @ 20:33:42

End Date: 2005.04.19 @ 04:24:12

Job Ticket #: 21538

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Company Inc.

 P. O. Box 2758
 Wichita KS. 67201-2758

ATTN: Kevin Kessler

Buxton #1-21
21-16S-23W Ness

Job Ticket: 21538 DST#: 1

Test Start: 2005.04.18 @ 20:33:42

GENERAL INFORMATION:

 Formation: **Cherokee**

 Deviated: **No** Whipstock: ft (KB)

Time Tool Opened: 22:26:12

Time Test Ended: 04:24:12

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

 Interval: **4372.00 ft (KB) To 4482.00 ft (KB) (TVD)**

 Total Depth: **4482.00 ft (KB) (TVD)**

 Hole Diameter: **7.88 inches** Hole Condition: **Good**

 Reference Elevations: **2501.00 ft (KB)**
2492.00 ft (CF)

 KB to GR/CF: **9.00 ft**
Serial #: 6625
Inside

 Press@RunDepth: **1131.27 psig @ 4373.00 ft (KB)**

 Start Date: **2005.04.18**

End Date:

2005.04.19

 Start Time: **20:33:45**

End Time:

04:24:12

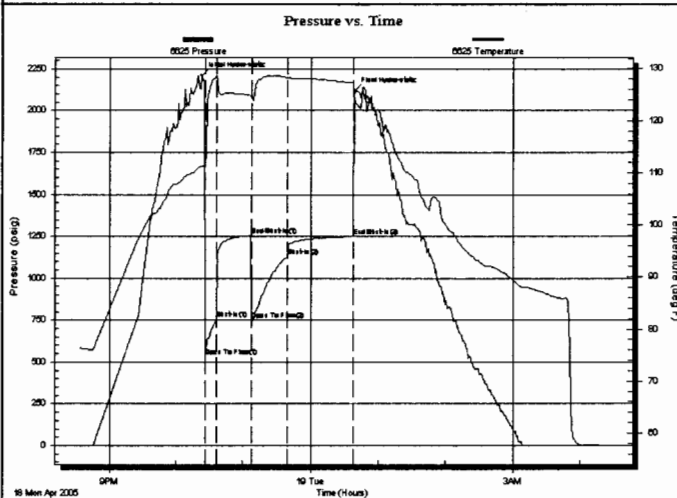
 Capacity: **7000.00 psig**

 Last Calib.: **1899.12.30**

 Time On Btm: **2005.04.18 @ 22:22:57**

 Time Off Btm: **2005.04.19 @ 00:38:42**

TEST COMMENT: IF; Strong blow off btm in 1 min
 IS; No return blow
 FF; Strong blow off btm in 3 mins
 FS; No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.97	111.27	Initial Hydro-static
4	535.88	111.01	Open To Flow (1)
14	759.33	128.62	Shut-In(1)
45	1255.21	124.77	End Shut-In(1)
46	752.63	124.45	Open To Flow (2)
77	1131.27	128.24	Shut-In(2)
135	1249.78	127.23	End Shut-In(2)
136	2116.14	124.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Wtr	2.67
1440.00	GOMCW 40%g 20%o 30%w 10%m	20.20
560.00	GOWCM 40%g 20%o 20%w 20%m	7.86
500.00	SGOCM 10%g 35%o 55%m	7.01

Gas Rates

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

Mull Drilling Company Inc.

Buxton #1-21

P. O. Box 2758
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21-16S-23W Ness

Job Ticket: 21538

DST#: 1

ATTN: Kevin Kessler

Test Start: 2005.04.18 @ 20:33:42

Tool Information

Drill Pipe:	Length: 4384.00 ft	Diameter: 3.80 inches	Volume: 61.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 61.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4372.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	129.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4358.00	
Hydraulic tool	5.00			4363.00	
Packer	5.00			4368.00	19.00 Bottom Of Top Packer
Packer	4.00			4372.00	
Stubb	1.00			4373.00	
Recorder	0.00	6625	Inside	4373.00	
Perforations	9.00			4382.00	
Change Over Sub	1.00			4383.00	
Anchor	93.00			4476.00	
Change Over Sub	1.00			4477.00	
Recorder	0.00	13309	Outside	4477.00	
Bullnose	5.00			4482.00	110.00 Bottom Packers & Anchor

Total Tool Length: 129.00


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FLUID SUMMARY

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21-16S-23W Ness

 Job Ticket: 21538 **DST#: 1**

ATTN: Kevin Kessler

Test Start: 2005.04.18 @ 20:33:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 70000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume: bbl

 Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Wtr	2.665
1440.00	GOMCW 40%g 20%o 30%w 10%m	20.199
560.00	GOWCM 40%g 20%o 20%w 20%m	7.855
500.00	SGOCM 10%g 35%o 55%m	7.014

Total Length: 2690.00 ft Total Volume: 37.733 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .13 @ 70 Deg = 70,000 Chloides

