



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co Inc  
 1700 N Waterfront PKWY  
 BLDG 1200  
 Wichita ,Ks  
 ATTN: Kevin Kessler

**Albers #3-17**  
**17-17-23 Ness, Ks**  
 Job Ticket: 039146 **DST#: 2**  
 Test Start: 2010.07.19 @ 17:00:52

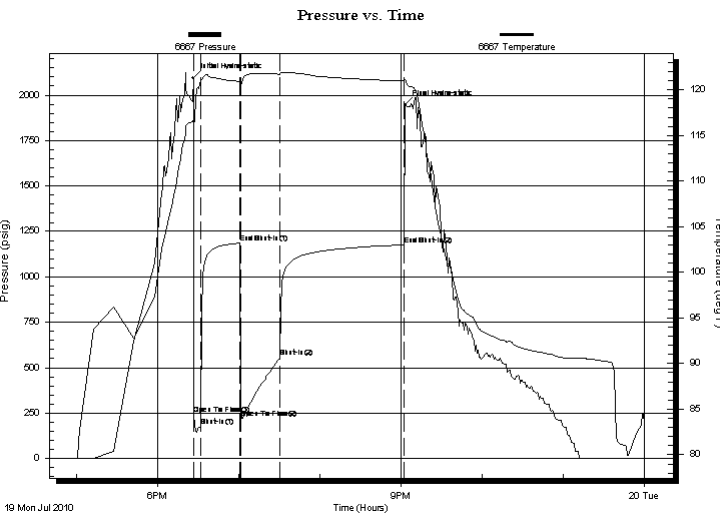
## GENERAL INFORMATION:

Formation: **J**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Straddle**  
 Time Tool Opened: 18:26:52 Tester: **Shane McBride**  
 Time Test Ended: 00:20:07 Unit No: **40**

**Interval: 4046.00 ft (KB) To 4070.00 ft (KB) (TVD)** Reference Elevations: **2465.00 ft (KB)**  
 Total Depth: **4080.00 ft (KB) (TVD)** **2456.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **9.00 ft**

**Serial #: 6667** **Outside**  
 Press @ Run Depth: **557.61 psig @ 4047.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.07.19** End Date: **2010.07.20** Last Calib.: **2010.07.20**  
 Start Time: **17:00:52** End Time: **00:00:07** Time On Btm: **2010.07.19 @ 18:26:37**  
 Time Off Btm: **2010.07.19 @ 21:03:07**

**TEST COMMENT:** B.O.B. in 45 sec.  
 1" in return died back to 1/2" in.  
 B.O.B. in 1 min.  
 G.T.S. 6 min into shutin bled off throughout



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.06	116.95	Initial Hydro-static
1	243.48	116.00	Open To Flow (1)
6	179.39	120.87	Shut-In(1)
35	1185.69	120.92	End Shut-In(1)
35	273.81	120.54	Open To Flow (2)
64	557.61	121.72	Shut-In(2)
156	1175.13	120.96	End Shut-In(2)
157	1948.00	121.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	g o & w c m 35g 10o 25w 30m	0.87
558.00	c g o 35g 65o	7.83
62.00	g s o c w 35g 10o 55w	0.87
620.00	g w 20g 80w	8.70

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co Inc  
 1700 N Waterfront PKWY  
 BLDG 1200  
 Wichita ,Ks  
 ATTN: Kevin Kessler

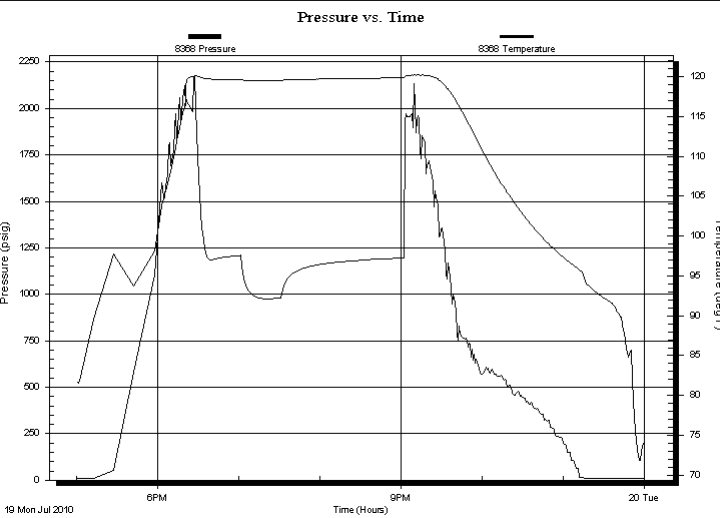
**Albers #3-17**  
**17-17-23 Ness, Ks**  
 Job Ticket: 039146 **DST#: 2**  
 Test Start: 2010.07.19 @ 17:00:52

## GENERAL INFORMATION:

Formation: **J**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Straddle**  
 Time Tool Opened: 18:26:52 Tester: **Shane McBride**  
 Time Test Ended: 00:20:07 Unit No: **40**  
**Interval: 4046.00 ft (KB) To 4070.00 ft (KB) (TVD)** Reference Elevations: **2465.00 ft (KB)**  
 Total Depth: **4080.00 ft (KB) (TVD)** **2456.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **9.00 ft**

**Serial #: 8368 Below (Straddle)**  
 Press @ Run Depth: **psig @ 4076.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.07.19** End Date: **2010.07.20** Last Calib.: **2010.07.20**  
 Start Time: **17:00:52** End Time: **00:00:22** Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** B.O.B. in 45 sec.  
 1" in return died back to 1/2" in.  
 B.O.B. in 1 min.  
 G.T.S. 6 min into shutin bled off throughout



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	g o & w c m 35g 10o 25w 30m	0.87
558.00	c g o 35g 65o	7.83
62.00	g s o c w 35g 10o 55w	0.87
620.00	g w 20g 80w	8.70

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mull Drilling Co Inc  
1700 N Waterfront PKWY  
BLDG 1200  
Wichita ,Ks  
ATTN: Kevin Kessler

**Albers #3-17**  
**17-17-23 Ness, Ks**  
Job Ticket: 039146      **DST#: 2**  
Test Start: 2010.07.19 @ 17:00:52

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 49 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 40000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.71 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6600.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
62.00	g o & w c m 35g 10o 25w 30m	0.870
558.00	c g o 35g 65o	7.827
62.00	g s o c w 35g 10o 55w	0.870
620.00	g w 20g 80w	8.697

Total Length: 1302.00 ft      Total Volume: 18.264 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw .151 @ 80\*f = 40,000 chlor

### Pressure vs. Time

