

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkwy
 Bldg 1200
 Wichita, KS 67206
 ATTN: Kevin Kessler

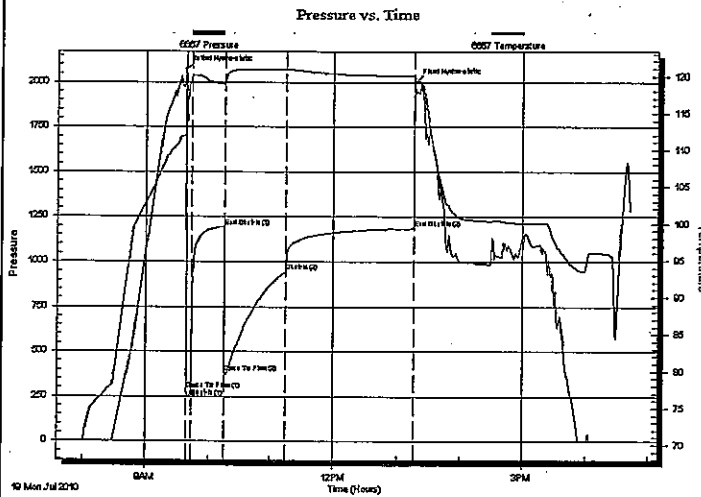
Albers #3-17
17-17s-23w Ness, Ks
 Job Ticket: 039145 DST#: 1
 Test Start: 2010.07.19 @ 08:00:46

GENERAL INFORMATION:

Formation: **J**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **09:38:16**
 Time Test Ended: **16:55:31**
 Interval: **4050.00 ft (KB) To 4080.00 ft (KB) (TVD)**
 Total Depth: **4080.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Shane McBride**
 Unit No: **40**
 Reference Elevations: **2465.00 ft (KB)**
2456.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: 6667 **Outside**
 Press@RunDepth: **946.86 psig @ 4051.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.07.19** End Date: **2010.07.19** Last Calib.: **2010.07.19**
 Start Time: **08:00:46** End Time: **16:43:31** Time On Btm: **2010.07.19 @ 09:37:46**
 Time Off Btm: **2010.07.19 @ 13:16:46**

TEST COMMENT: B.O.B. in 1 min
 Weak surface return
 B.O.B. in 1 + min.
 G.T.S. 15 min into shutin , bled off throughout



PRESSURE SUMMARY

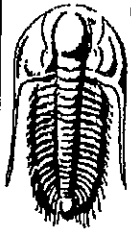
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.31	112.07	Initial Hydro-static
1	287.15	111.78	Open To Flow (1)
6	288.77	119.87	Shut-In(1)
37	1196.23	118.92	End Shut-In(1)
37	384.07	118.93	Open To Flow (2)
97	946.86	120.85	Shut-In(2)
218	1185.98	120.03	End Shut-In(2)
219	2001.33	119.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	g o & m c w 30g 15o 25m 30w	1.26
90.00	c g o 35g 65o	1.26
1560.00	g o c w 35g 30o 35w reversed	21.88
120.00	g s o c w 20g 5o 75w	1.68

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

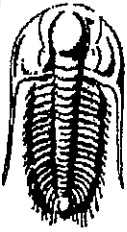
Drill Pipe:	Length: 4053.00 ft	Diameter: 3.80 inches	Volume: 56.85 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4050.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4031.00	
Shut In Tool	5.00			4036.00	
Hydraulic tool	5.00			4041.00	
Packer	5.00			4046.00	20.00 Bottom Of Top Packer
Packer	4.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	6771	Inside	4051.00	
Recorder	0.00	6667	Outside	4051.00	
Perforations	24.00			4075.00	
Bullnose	5.00			4080.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



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FLUID SUMMARY

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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: 10.69 in ³	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
90.00	g o & m c w 30g 15o 25m 30w	1.262
90.00	c g o 35g 65o	1.262
1560.00	g o c w 35g 30o 35w reversed	21.883
120.00	g s o c w 20g 5o 75w	1.683

Total Length: 1860.00 ft Total Volume: 26.090 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw .132 @ 88*f= 40,000 chlor
Geo w anted to drop the bar after 3 stands

Pressure vs. Time

