



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758  
Wichita KS 67201-2758

ATTN: Kevin Kessler

**6 17S 27W Lane KS**

**Munsell #1-6**

Start Date: 2006.07.24 @ 15:48:01

End Date: 2006.07.24 @ 21:37:30

Job Ticket #: 24273                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co

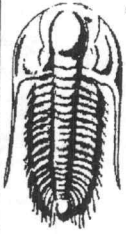
Munsell #1-6

6 17S 27W Lane KS

DST # 1

L/KC "H,J"

2006.07.24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co  
 PO Box 2758  
 Wichita KS 67201-2758  
 ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
 Job Ticket: 24273      **DST#: 1**  
 Test Start: 2006.07.24 @ 15:48:01

## GENERAL INFORMATION:

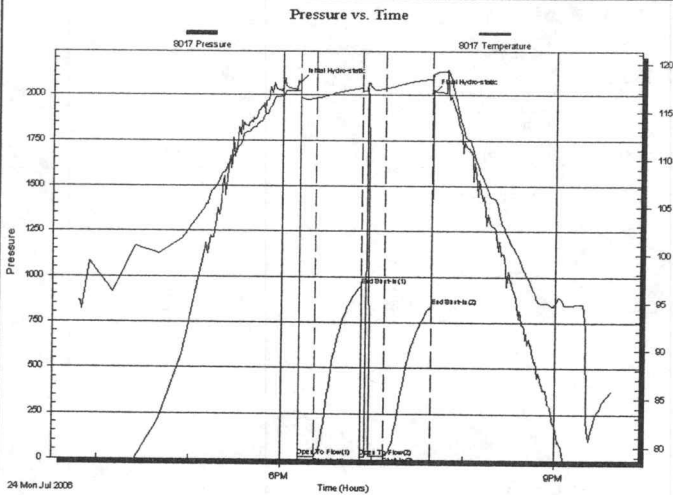
Formation: **L/KC "H,I"**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 18:11:30  
 Time Test Ended: 21:37:30  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Interval: **4140.00 ft (KB) To 4195.00 ft (KB) (TVD)**  
 Total Depth: 4195.00 ft (KB) (TVD)  
 Reference Elevations: 2701.00 ft (KB)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 2692.00 ft (CF)  
 KB to GR/CF: 9.00 ft

## Serial #: 8017

Inside

Press@RunDepth: 18.38 psig @ 4143.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.07.24      End Date: 2006.07.24      Last Calib.: 2006.07.24  
 Start Time: 15:48:01      End Time: 21:37:30      Time On Btm: 2006.07.24 @ 18:11:15  
 Time Off Btm: 2006.07.24 @ 19:39:00

TEST COMMENT: IF Weak surface blow died @ 1 min  
 ISI No return  
 FF No blow flushed tool no blow  
 FSI No return



## PRESSURE SUMMARY

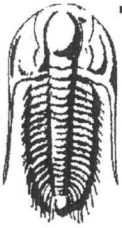
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.50	117.18	Initial Hydro-static
1	15.08	116.63	Open To Flow (1)
11	15.34	116.45	Shut-In (1)
41	948.53	117.50	End Shut-In (1)
41	15.98	117.11	Open To Flow (2)
57	18.38	117.45	Shut-In (2)
88	840.51	118.48	End Shut-In (2)
88	2009.58	118.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 24273      **DST#: 1**  
Test Start: 2006.07.24 @ 15:48:01

**Tool Information**

Drill Pipe:	Length: 4125.00 ft	Diameter: 3.80 inches	Volume: 57.86 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:	21000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 57.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	4140.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

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

Change Over Sub	1.00			4121.00	
Shut In Tool	5.00			4126.00	
Hydraulic tool	5.00			4131.00	
Packer	5.00			4136.00	20.00      Bottom Of Top Packer
Packer	4.00			4140.00	
Stubb	1.00			4141.00	
Perforations	2.00			4143.00	
Recorder	0.00	8017	Inside	4143.00	
Perforations	14.00			4157.00	
Change Over Sub	1.00			4158.00	
Anchor	31.00			4189.00	
Change Over Sub	1.00			4190.00	
Recorder	0.00	13276	Inside	4190.00	
Bullnose	5.00			4195.00	55.00      Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Munsell #1-6

PO Box 2758  
Wichita KS 67201-2758

6 17S 27W Lane KS

Job Ticket: 24273

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.07.24 @ 15:48:01

### 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:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

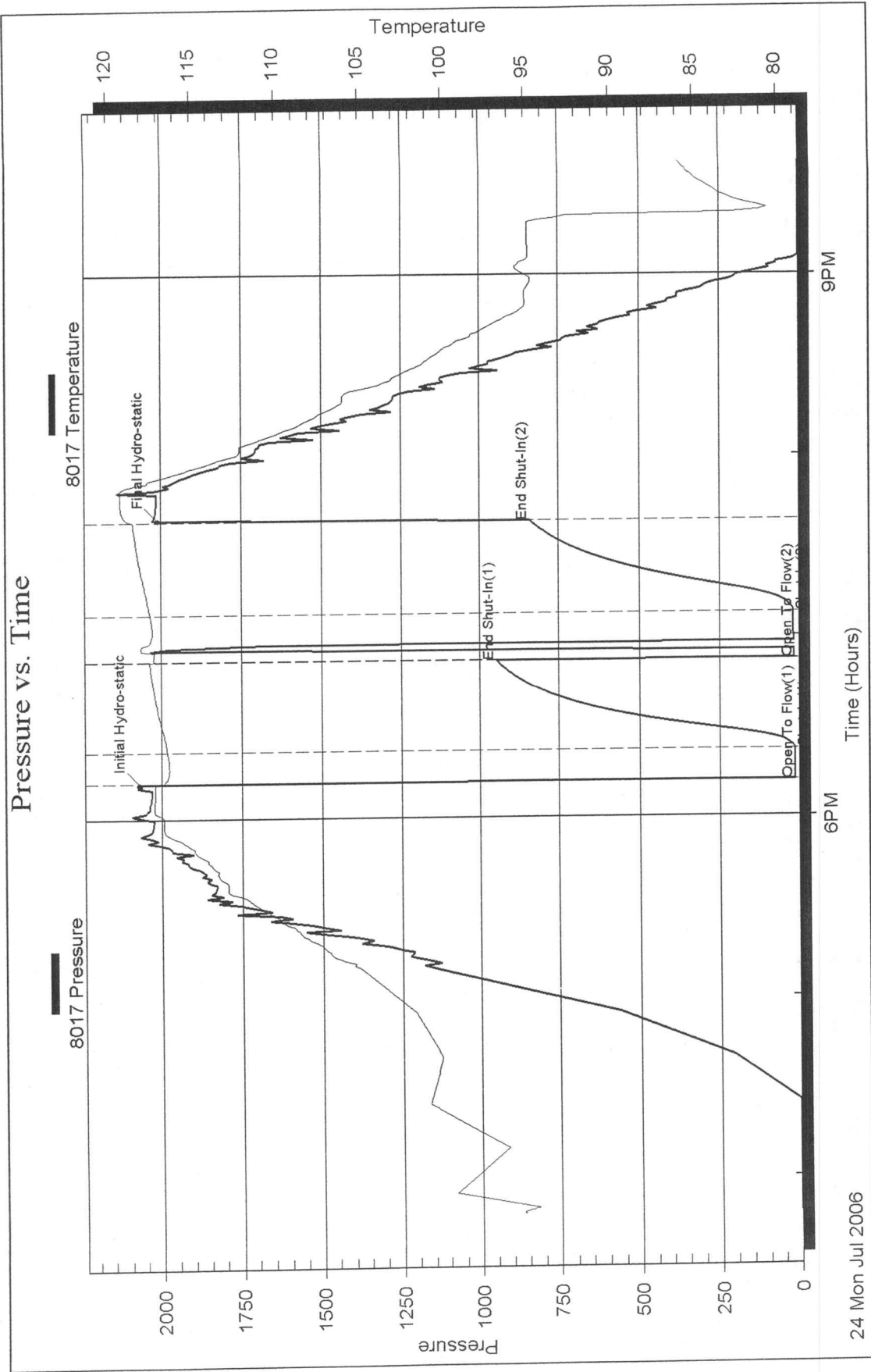
Serial #: 8017

Inside

Mull Drilling Co

6 17S 27W Lane KS

DST Test Number: 1

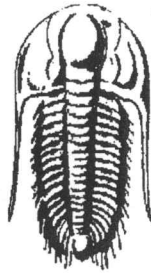


24 Mon Jul 2006

Trilobite Testing, Inc

Ref. No: 24273

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758  
Wichita KS 67201-2758

ATTN: Kevin Kessler

**6 17S 27W Lane KS**

**Munsell #1-6**

Start Date: 2006.07.25 @ 07:52:29

End Date: 2006.07.25 @ 13:48:28

Job Ticket #: 24274                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co

Munsell #1-6

6 17S 27W Lane KS

DST # 2

L/KC "J"

2006.07.25



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

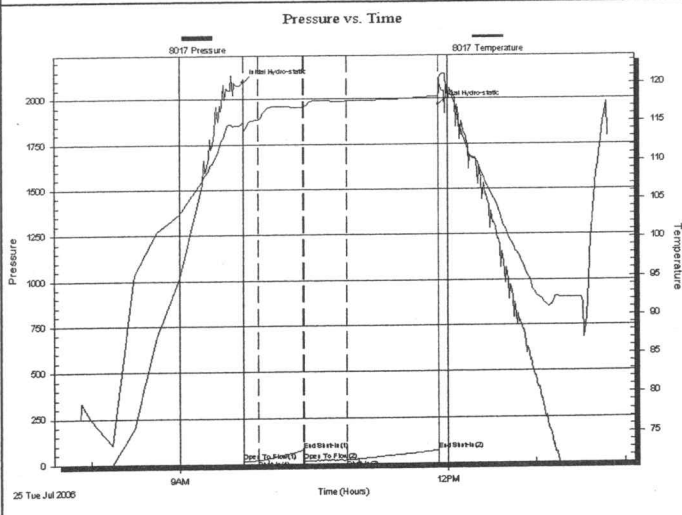
**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 24274      **DST#: 2**  
Test Start: 2006.07.25 @ 07:52:29

### GENERAL INFORMATION:

Formation: **L/KC "J"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 09:42:58  
Time Test Ended: 13:48:28  
Interval: **4202.00 ft (KB) To 4250.00 ft (KB) (TVD)**  
Total Depth: 4250.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Reference Elevations: 2701.00 ft (KB)  
2692.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8017      Inside**  
Press@RunDepth: 17.61 psig @ 4206.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.07.25      End Date: 2006.07.25      Last Calib.: 2006.07.26  
Start Time: 07:52:29      End Time: 13:48:28      Time On Btm: 2006.07.25 @ 09:42:43  
Time Off Btm: 2006.07.25 @ 11:53:43

TEST COMMENT: IF Surface blow built to 1/2 "  
ISI No return  
FF Surface blow built to 1/4 "  
FSI No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.43	114.88	Initial Hydro-static
1	14.41	114.10	Open To Flow (1)
11	17.45	115.34	Shut-In(1)
41	72.43	116.92	End Shut-In(1)
41	12.61	116.79	Open To Flow (2)
71	17.61	117.71	Shut-In(2)
131	68.79	118.31	End Shut-In(2)
131	1965.81	119.35	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 8%O 92%M	0.21

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 24274      **DST#: 2**  
Test Start: 2006.07.25 @ 07:52:29

### Tool Information

Drill Pipe:	Length: 4212.00 ft	Diameter: 3.80 inches	Volume: 59.08 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:	23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<b>Total Volume: 59.08 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	4202.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	68.00 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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Change Over Sub	1.00			4183.00	
Shut In Tool	5.00			4188.00	
Hydraulic tool	5.00			4193.00	
Packer	5.00			4198.00	20.00      Bottom Of Top Packer
Packer	4.00			4202.00	
Stubb	1.00			4203.00	
Perforations	3.00			4206.00	
Recorder	0.00	8017	Inside	4206.00	
Perforations	6.00			4212.00	
Change Over Sub	1.00			4213.00	
Anchor	31.00			4244.00	
Change Over Sub	1.00			4245.00	
Recorder	0.00	13276	Inside	4245.00	
Bullnose	5.00			4250.00	48.00      Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 24274      **DST#: 2**  
Test Start: 2006.07.25 @ 07:52:29

### 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:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5100.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 8%O 92%M	0.210

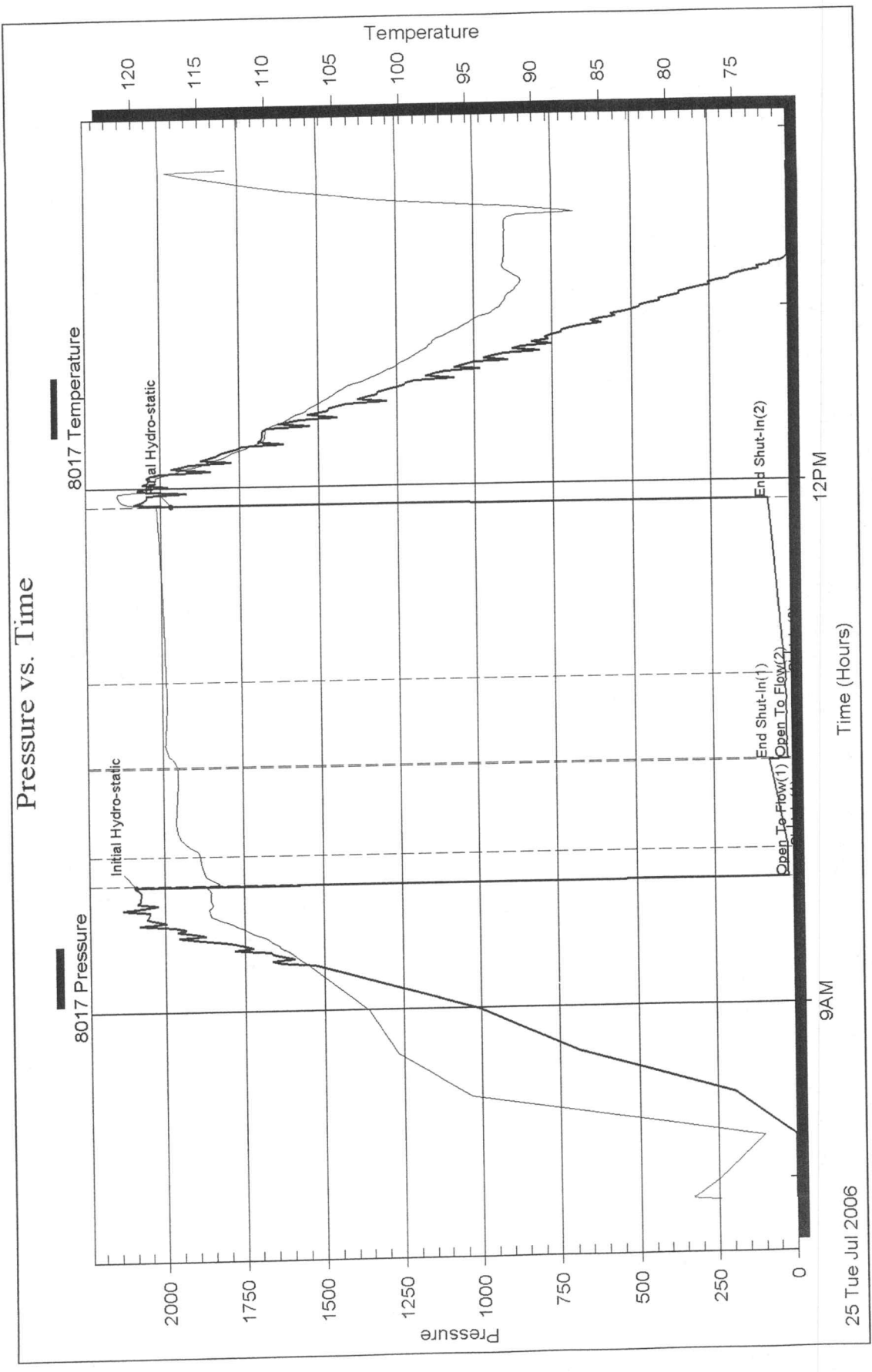
Total Length: 15.00 ft      Total Volume: 0.210 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 30 feet of gas in pipe.

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758  
Wichita KS 67201-2758

ATTN: Kevin Kessler

**6 17S 27W Lane KS**

**Munsell #1-6**

Start Date: 2006.07.26 @ 21:49:01

End Date: 2006.07.27 @ 06:24:30

Job Ticket #: 24275                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co

Munsell #1-6

6 17S 27W Lane KS

DST # 3

L/KC "K"

2006.07.26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co  
 PO Box 2758  
 Wichita KS 67201-2758  
 ATTN: Kevin Kessler

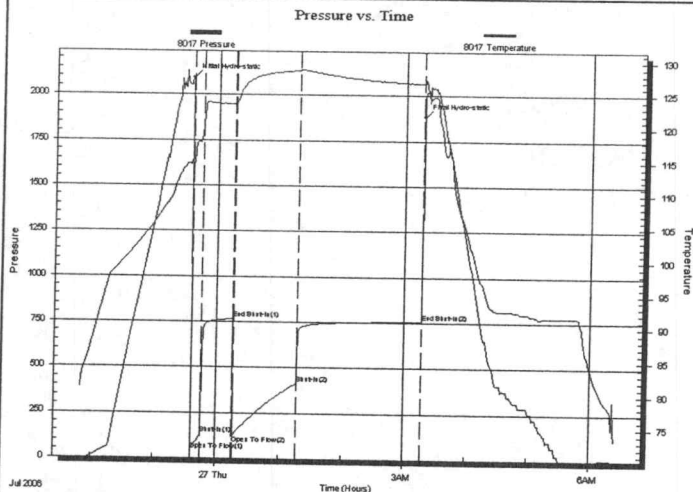
**Munsell #1-6**  
**6 17S 27W Lane KS**  
 Job Ticket: 24275      **DST#: 3**  
 Test Start: 2006.07.26 @ 21:49:01

## GENERAL INFORMATION:

Formation: **L/KC "K"**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 23:36:00  
 Time Test Ended: 06:24:30  
 Interval: **4240.00 ft (KB) To 4280.00 ft (KB) (TVD)**  
 Total Depth: 4280.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Reference Elevations: 2701.00 ft (KB)  
 2692.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8017      Inside**  
 Press@RunDepth: 411.82 psig @ 4243.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.07.26      End Date: 2006.07.27      Last Calib.: 2006.07.26  
 Start Time: 21:49:01      End Time: 06:24:30      Time On Btm: 2006.07.26 @ 23:35:15  
 Time Off Btm: 2006.07.27 @ 03:18:00

TEST COMMENT: IF BOB @ 6 min  
 ISI No return  
 FF BOB @ 22 min  
 FSI Return blow built to 1" died @ 65 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.82	114.94	Initial Hydro-static
1	41.24	114.44	Open To Flow (1)
11	128.45	120.67	Shut-In(1)
41	764.46	123.57	End Shut-In(1)
41	128.05	123.64	Open To Flow (2)
101	411.82	128.67	Shut-In(2)
223	755.43	126.73	End Shut-In(2)
223	1879.71	127.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	FO 100%O	0.07
45.00	WOCM 20%W 20%O 60%M	0.63
100.00	GMCO 10%G 15%M 75%O	1.40
140.00	GOWCM 10%G 5%O 30%W 55%M	1.96
540.00	MCW 5%M 95%W	7.57

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 24275      **DST#: 3**  
Test Start: 2006.07.26 @ 21:49:01

### Tool Information

Drill Pipe:	Length: 4250.00 ft	Diameter: 3.80 inches	Volume: 59.62 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 59.62 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4240.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4221.00	
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Packer	5.00			4236.00	20.00      Bottom Of Top Packer
Packer	4.00			4240.00	
Stubb	1.00			4241.00	
Perforations	2.00			4243.00	
Recorder	0.00	8017	Inside	4243.00	
Change Over Sub	1.00			4244.00	
Anchor	30.00			4274.00	
Change Over Sub	1.00			4275.00	
Recorder	0.00	13276	Inside	4275.00	
Bullnose	5.00			4280.00	40.00      Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mull Drilling Co

**Munsell #1-6**

PO Box 2758  
Wichita KS 67201-2758

**6 17S 27W Lane KS**

Job Ticket: 24275

**DST#: 3**

ATTN: Kevin Kessler

Test Start: 2006.07.26 @ 21:49:01

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

11000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	FO 100%O	0.070
45.00	WOCM 20%W 20%O 60%M	0.631
100.00	GMCO 10%G 15%M 75%O	1.403
140.00	GOWCM 10%G 5%O 30%W 55%M	1.964
540.00	MCW 5%M 95%W	7.575

Total Length: 830.00 ft

Total Volume: 11.643 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API; 38 @ 70 degree F = 37

RW; .655 @ 73 degree F = 11000

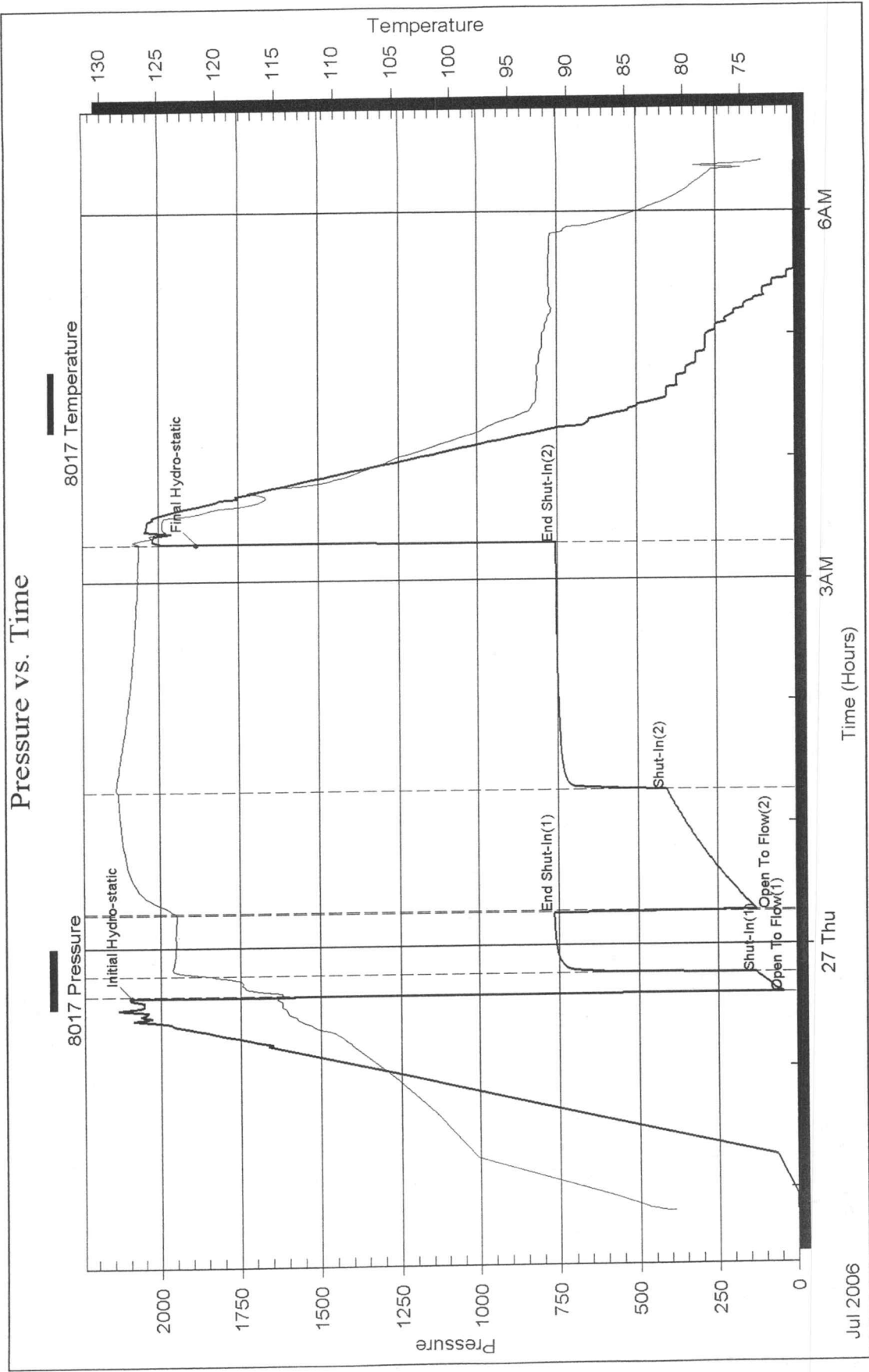
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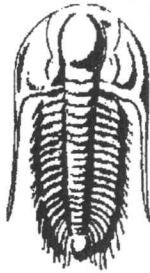
Inside

Mull Drilling Co

6 17S 27W Lane KS

DST Test Number: 3





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**  
PO Box 2758  
Wichita KS 67201-2758

ATTN: Kevin Kessler

**6 17S 27W Lane KS**

**Munsell #1-6**

Start Date: 2006.07.27 @ 21:30:04  
End Date: 2006.07.28 @ 03:24:03  
Job Ticket #: 25576                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co

Munsell #1-6

6 17S 27W Lane KS

DST # 4

Marmaton

2006.07.27



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Mull Drilling Co  
 PO Box 2758  
 Wichita KS 67201-2758  
 ATTN: Kevin Kessler

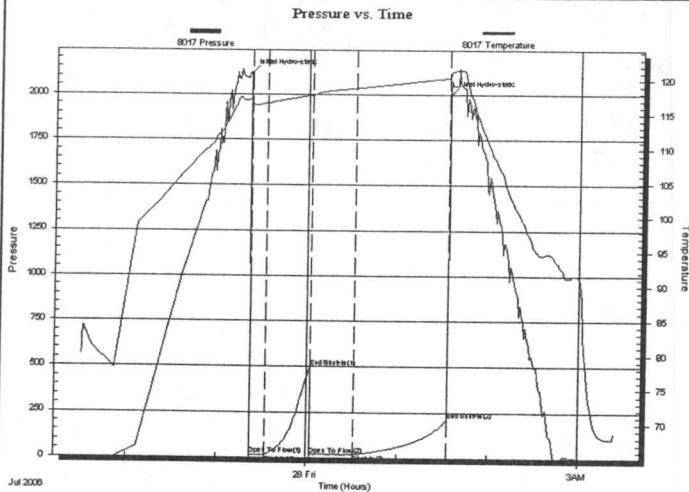
**Munsell #1-6**  
**6 17S 27W Lane KS**  
 Job Ticket: 25576      **DST#: 4**  
 Test Start: 2006.07.27 @ 21:30:04

### GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 23:22:18  
 Time Test Ended: 03:24:03  
 Interval: **4300.00 ft (KB) To 4380.00 ft (KB) (TVD)**  
 Total Depth: 4380.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Reference Elevations: 2701.00 ft (KB)  
 2692.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8017      Inside**  
 Press@RunDepth: 17.62 psig @ 4303.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.07.27      End Date: 2006.07.28      Last Calib.: 1899.12.30  
 Start Time: 21:30:04      End Time: 03:24:03      Time On Btm: 2006.07.27 @ 23:22:03  
 Time Off Btm: 2006.07.28 @ 01:33:33

**TEST COMMENT:** IF Weak surface blow built to 1/2 " decreased to 1/4 "  
 ISI No return  
 FF No blow  
 FSI No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.97	117.19	Initial Hydro-static
1	15.90	116.54	Open To Flow (1)
11	16.96	116.67	Shut-In(1)
41	498.06	117.87	End Shut-In(1)
41	17.26	117.72	Open To Flow (2)
69	17.62	118.83	Shut-In(2)
131	208.18	120.31	End Shut-In(2)
132	1997.79	120.85	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 2%O 98%M	0.14

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25576  
Test Start: 2006.07.27 @ 21:30:04  
**DST#: 4**

### Tool Information

Drill Pipe:	Length: 4310.00 ft	Diameter: 3.80 inches	Volume: 60.46 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
		<u>Total Volume:</u>	<u>60.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4300.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4281.00		
Shut In Tool	5.00			4286.00		
Hydraulic tool	5.00			4291.00		
Packer	5.00			4296.00	20.00	Bottom Of Top Packer
Packer	4.00			4300.00		
Stubb	1.00			4301.00		
Perforations	2.00			4303.00		
Recorder	0.00	8017	Inside	4303.00		
Perforations	9.00			4312.00		
Change Over Sub	1.00			4313.00		
Anchor	61.00			4374.00		
Change Over Sub	1.00			4375.00		
Recorder	0.00	13276	Inside	4375.00		
Bullnose	5.00			4380.00	80.00	Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25576      **DST#: 4**  
Test Start: 2006.07.27 @ 21:30:04

## 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:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 2%O 98%M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

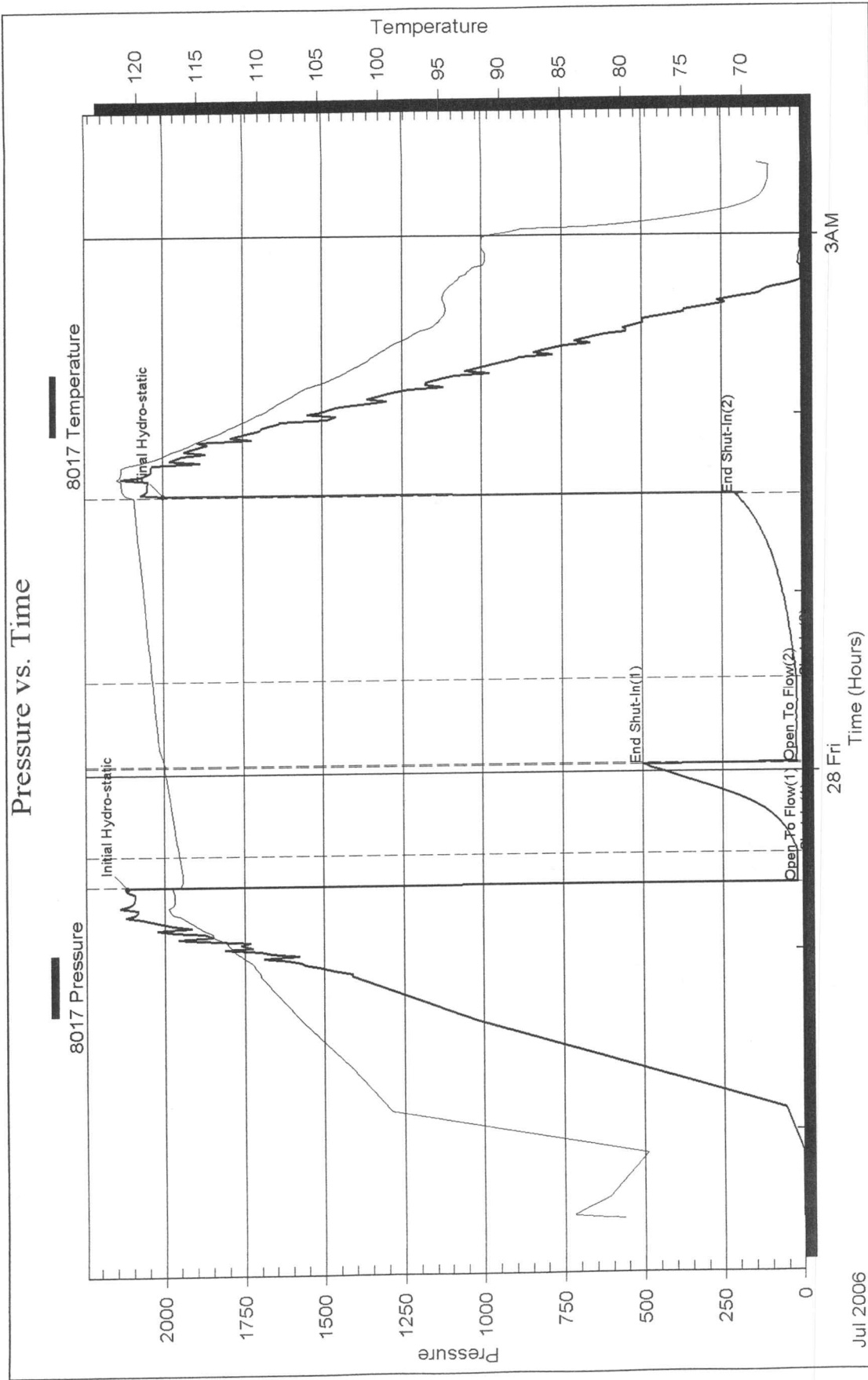
Serial #: 8017

Inside

Mull Drilling Co

6 17S 27W Lane KS

DST Test Number: 4





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**  
PO Box 2758  
Wichita KS 67201-2758

ATTN: Kevin Kessler

**6 17S 27W Lane KS**

**Munsell #1-6**

Start Date: 2006.07.28 @ 01:05:32  
End Date: 2006.07.28 @ 09:32:01  
Job Ticket #: 25577                      DST #: 5

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co

Munsell #1-6

6 17S 27W Lane KS

DST # 5

Ft. Scott/Cherokee

2006.07.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co  
 PO Box 2758  
 Wichita KS 67201-2758  
 ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
 Job Ticket: 25577      **DST#: 5**  
 Test Start: 2006.07.28 @ 01:05:32

## GENERAL INFORMATION:

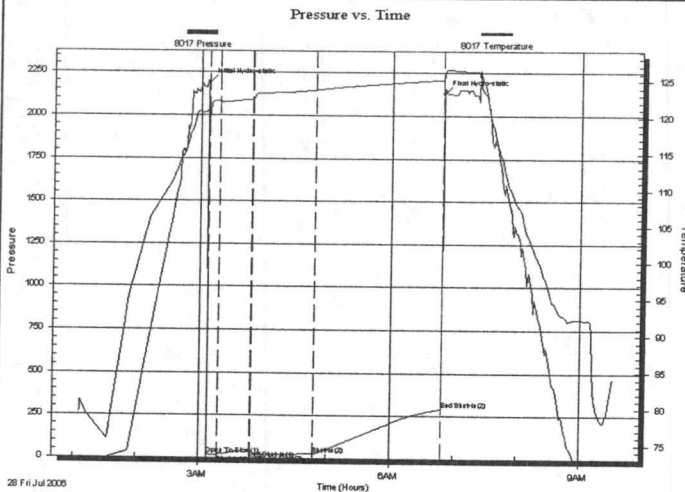
Formation: **Ft. Scott/Cherokee**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 03:07:46  
 Time Test Ended: 09:32:01  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Interval: **4470.00 ft (KB) To 4560.00 ft (KB) (TVD)**  
 Total Depth: 4560.00 ft (KB) (TVD)  
 Reference Elevations: 2701.00 ft (KB)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 2692.00 ft (CF)  
 KB to GR/CF: 9.00 ft

## Serial #: 8017

Inside

Press@RunDepth: 23.21 psig @ 4473.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.07.28      End Date: 2006.07.28      Last Calib.: 2005.07.28  
 Start Time: 01:05:32      End Time: 09:32:01      Time On Btm: 2006.07.28 @ 03:07:31  
 Time Off Btm: 2006.07.28 @ 06:49:01

TEST COMMENT: IF Surface blow built to >3 "  
 ISI Return built to 1 "  
 FF Blow built to 6 "  
 FSI No return



## PRESSURE SUMMARY

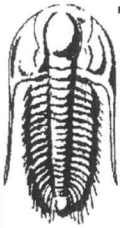
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.42	120.97	Initial Hydro-static
1	17.28	119.89	Open To Flow (1)
11	17.00	122.12	Shut-In(1)
41	42.44	122.49	End Shut-In(1)
42	19.40	122.48	Open To Flow (2)
101	23.21	123.77	Shut-In(2)
221	290.82	125.20	End Shut-In(2)
222	2129.30	125.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 10%O 90%M	0.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25577      **DST#: 5**  
Test Start: 2006.07.28 @ 01:05:32

### Tool Information

Drill Pipe:	Length: 4463.00 ft	Diameter: 3.80 inches	Volume: 62.60 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	73000.00 lb
			<u>Total Volume: 62.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	4470.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4451.00	
Shut In Tool	5.00			4456.00	
Hydraulic tool	5.00			4461.00	
Packer	5.00			4466.00	20.00      Bottom Of Top Packer
Packer	4.00			4470.00	
Stubb	1.00			4471.00	
Perforations	2.00			4473.00	
Recorder	0.00	8017	Inside	4473.00	
Perforations	17.00			4490.00	
Change Over Sub	1.00			4491.00	
Anchor	63.00			4554.00	
Change Over Sub	1.00			4555.00	
Recorder	0.00	13276	Inside	4555.00	
Bullnose	5.00			4560.00	90.00      Bottom Packers & Anchor

**Total Tool Length: 110.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25577      **DST#: 5**  
Test Start: 2006.07.28 @ 01:05:32

### Mud and Cushion Information

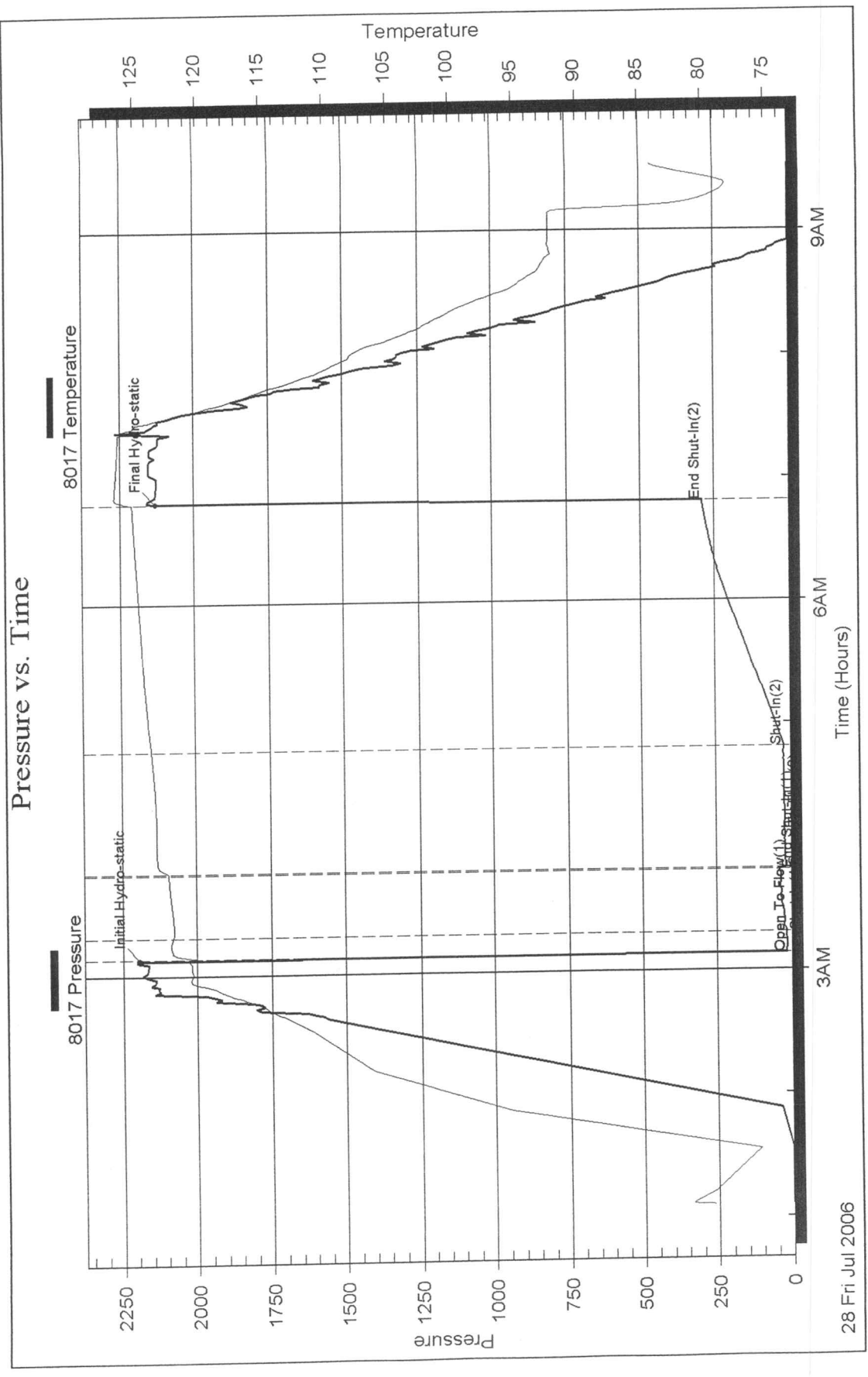
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: 1.00 inches			

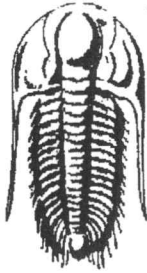
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 10%O 90%M	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 180 feet of gas in pipe.





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758  
Wichita KS 67201-2758

ATTN: Kevin Kessler

**6 17S 27W Lane KS**

**Munsell #1-6**

Start Date: 2006.07.28 @ 17:05:01

End Date: 2006.07.28 @ 22:43:45

Job Ticket #: 25578                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mull Drilling Co

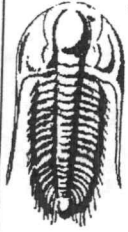
Munsell #1-6

6 17S 27W Lane KS

DST # 6

Cherokee Sand

2006.07.28



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25578      **DST#: 6**  
Test Start: 2006.07.28 @ 17:05:01

### GENERAL INFORMATION:

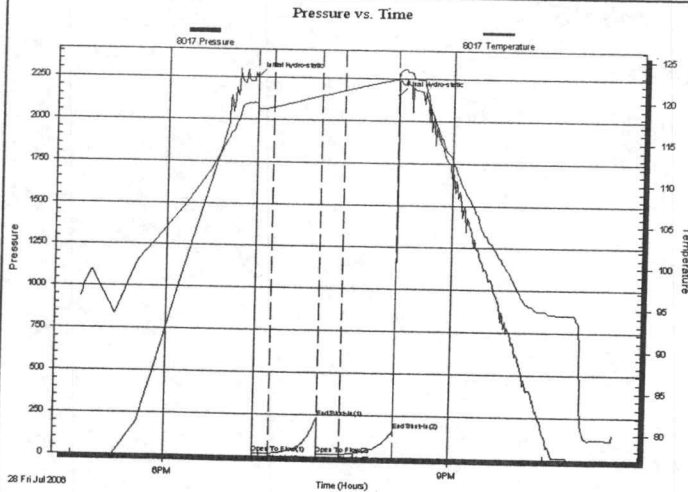
Formation: **Cherokee Sand**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 18:56:00  
Time Test Ended: 22:43:45  
Interval: **4561.00 ft (KB) To 4581.00 ft (KB) (TVD)**  
Total Depth: 4581.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Reference Elevations: 2701.00 ft (KB)  
2692.00 ft (CF)  
KB to GR/CF: 9.00 ft

### Serial #: 8017

Inside

Press@RunDepth: 17.89 psig @ 4566.00 ft (KB)  
Start Date: 2006.07.28      End Date: 2006.07.28  
Start Time: 17:05:01      End Time: 22:43:45  
Capacity: 7000.00 psig  
Last Calib.: 2006.07.28  
Time On Btm: 2006.07.28 @ 18:55:45  
Time Off Btm: 2006.07.28 @ 20:25:00

TEST COMMENT: IF Weak surface blow died @ 15 sec  
ISI No return  
FF No blow  
FSI No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.86	119.62	Initial Hydro-static
1	16.28	118.94	Open To Flow (1)
11	17.84	119.15	Shut-In(1)
41	231.78	120.66	End Shut-In(1)
41	17.70	120.61	Open To Flow (2)
56	17.89	121.27	Shut-In(2)
89	164.04	122.75	End Shut-In(2)
90	2151.99	123.30	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud 100%M	0.03

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25578      **DST#: 6**  
Test Start: 2006.07.28 @ 17:05:01

**Tool Information**

Drill Pipe:	Length: 4565.00 ft	Diameter: 3.80 inches	Volume: 64.03 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:	23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	51000.00 lb
			<u>Total Volume: 64.03 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	4561.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4542.00	
Shut In Tool	5.00			4547.00	
Hydraulic tool	5.00			4552.00	
Packer	5.00			4557.00	20.00      Bottom Of Top Packer
Packer	4.00			4561.00	
Stubb	1.00			4562.00	
Perforations	4.00			4566.00	
Recorder	0.00	8017	Inside	4566.00	
Perforations	10.00			4576.00	
Recorder	0.00	13276	Inside	4576.00	
Bullnose	5.00			4581.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Co  
PO Box 2758  
Wichita KS 67201-2758  
ATTN: Kevin Kessler

**Munsell #1-6**  
**6 17S 27W Lane KS**  
Job Ticket: 25578      **DST#: 6**  
Test Start: 2006.07.28 @ 17:05:01

## 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:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

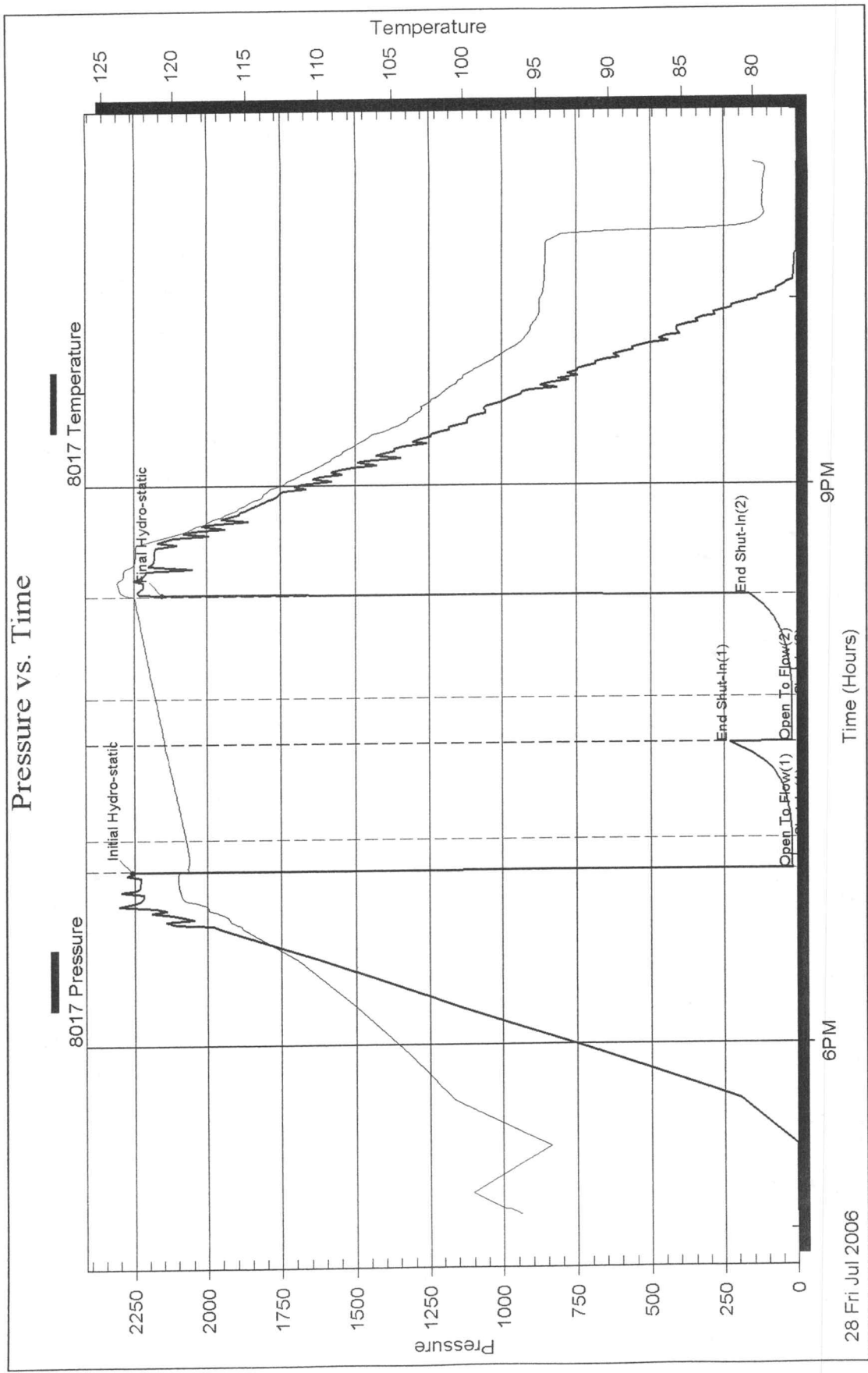
## Recovery Information

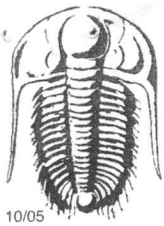
Recovery Table

Length ft	Description	Volume bbl
2.00	Drilling Mud 100%M	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24273

9062

## Test Ticket

Well Name & No. Munsell #1-6 Test No. 1 Date 7-24-06  
 Company Mull Drilling Co. Zone Tested L/KC "H,I"  
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2701 KB 2692 GL  
 Co. Rep / Geo. Kevin Kessler Rig Duke #4  
 Location: Sec. 6 Twp. 17s Rge. 27w Co. Lane State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4140 to 4195 Initial Str Wt./Lbs. 39,000 Unseated Str Wt./Lbs. 39,000  
 Anchor Length 55 Wt. Set Lbs. 2100 Wt. Pulled Loose/Lbs. 48,000  
 Top Packer Depth 4136 Tool Weight 1,500  
 Bottom Packer Depth 4140 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4195 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.4 LCM Tr Vis. 53 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4,125

Blow Description IF: Weak surface blow died @ 1 min.  
ISI: No return.  
FF: No blow, Flushed Tool @ 3 min, no blow  
FSI: No return

Recovery - Total Feet 10 GIP — Ft. in DC 0 Ft. in DP 10  
 Rec. 10 Feet of Mud %gas %oil %water 100 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 118 °F Gravity — °API D @ — °F Corrected Gravity — °API  
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 4600 ppm System

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud	2,089	PSI	8017	4,100 <sup>00</sup>
(B) First Initial Flow Pressure	15	PSI	(depth) 4143	Jars
(C) First Final Flow Pressure	15	PSI	Recorder No. 13276	Safety Jt.
(D) Initial Shut-In Pressure	949	PSI	(depth) 4190	Circ Sub X <u>N/C</u>
(E) Second Initial Flow Pressure	16	PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure	18	PSI	(depth)	Straddle
(G) Final Shut-In Pressure	841	PSI	Initial Opening <u>7510</u>	Ext. Packer
(Q) Final Hydrostatic Mud	2,028	PSI	Initial Shut-In <u>30</u>	Shale Packer
			Final Flow <u>15</u>	Ruined Packer
			Final Shut-In <u>30</u>	Mileage <u>87 RT 108.75</u>
			T-On Location <u>19:56</u>	Sub Total: <u>1208.75</u>
			T-Started <u>15:48</u>	Std. By _____
			T-Open <u>18:12</u>	Acc. Chg: _____
			T-Pulled <u>19:39</u>	Other: _____
			T-Out <u>21:38</u>	Total: _____

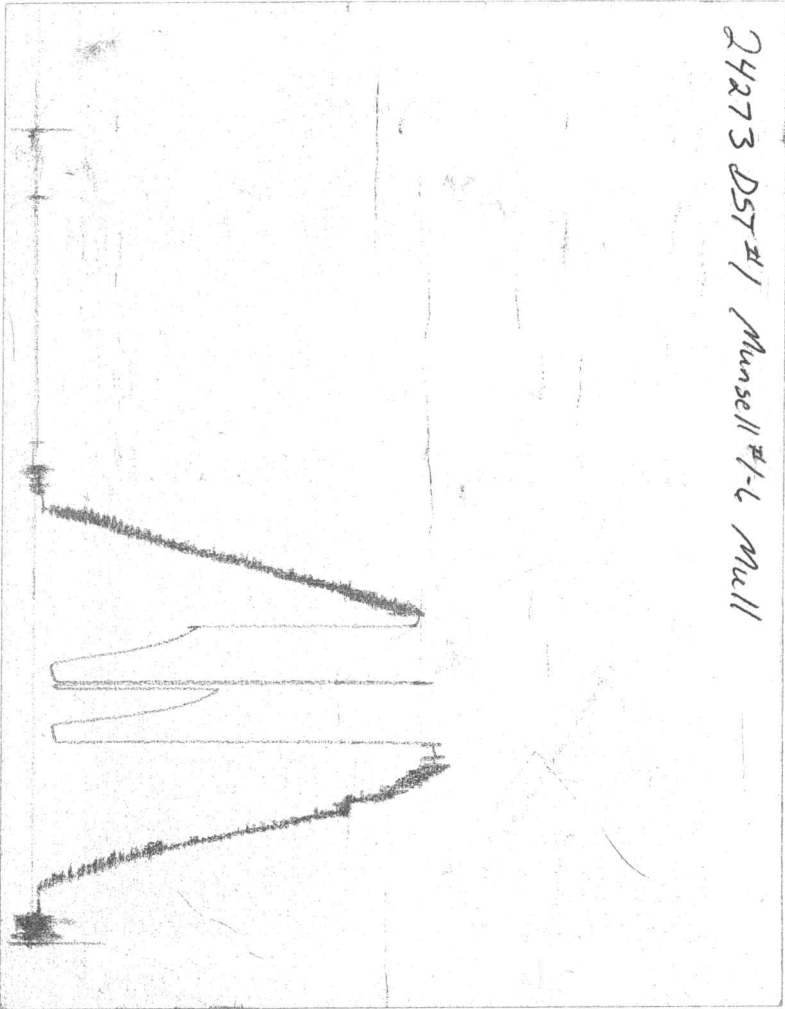
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

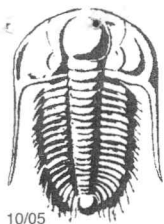
Approved By Kevin Kessler  
 Our Representative Chuck Smith

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

24273 DST #1 Munsel #1-6 Mull





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24274

## Test Ticket

Well Name & No. Munsel #1-6 Test No. 2 Date 7-25-06  
 Company Mull Drilling Co. Zone Tested L/KC "J"  
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2701 KB 2692 GL  
 Co. Rep / Geo. Kevin Kessler Rig Duke #4  
 Location: Sec. 6 Twp. 17s Rge. 27w Co. Lanc State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4202 to 4250 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 40,000  
 Anchor Length 48 Wt. Set Lbs. 23,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 4198 Tool Weight 1,500  
 Bottom Packer Depth 4202 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4250 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.4 LCM T Vis. 55 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 4,212

Blow Description IF: Surface blow built to 1/2"  
ISI: No return.  
FF: Surface blow built to 1/4"  
FSI: No return

Recovery - Total Feet 15 GIP 30 Ft. in DC 0 Ft. in DP 15  
 Rec. 15 Feet of OCM %gas 8 %oil \_\_\_\_\_ %water 92 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 118 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 5,100 ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	2,096	PSI	8017	1,100 <sup>00</sup>
(B) First Initial Flow Pressure	19	PSI	(depth) 4,206	Jars _____
(C) First Final Flow Pressure	17	PSI	Recorder No. 1,3276	Safety Jt. _____
(D) Initial Shut-In Pressure	72	PSI	(depth) 4,245	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	13	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	18	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	69	PSI	<b>Initial Opening</b> 10	Ext. Packer _____
(Q) Final Hydrostatic Mud	2,087	PSI	Initial Shut-In 30	Shale Packer _____
			Final Flow 30	Ruined Packer _____
			Final Shut-In 60	Mileage <u>87</u> <u>108.75</u>
			<b>T-On Location</b> <u>07:21am</u>	Sub Total: <u>1208.75</u>
			T-Started <u>07:52am</u>	Std. By _____
			T-Open <u>09:42am</u>	Acc. Chg: _____
			T-Pulled <u>11:53am</u>	Other: _____
			T-Out <u>13:48pm</u>	Total: _____

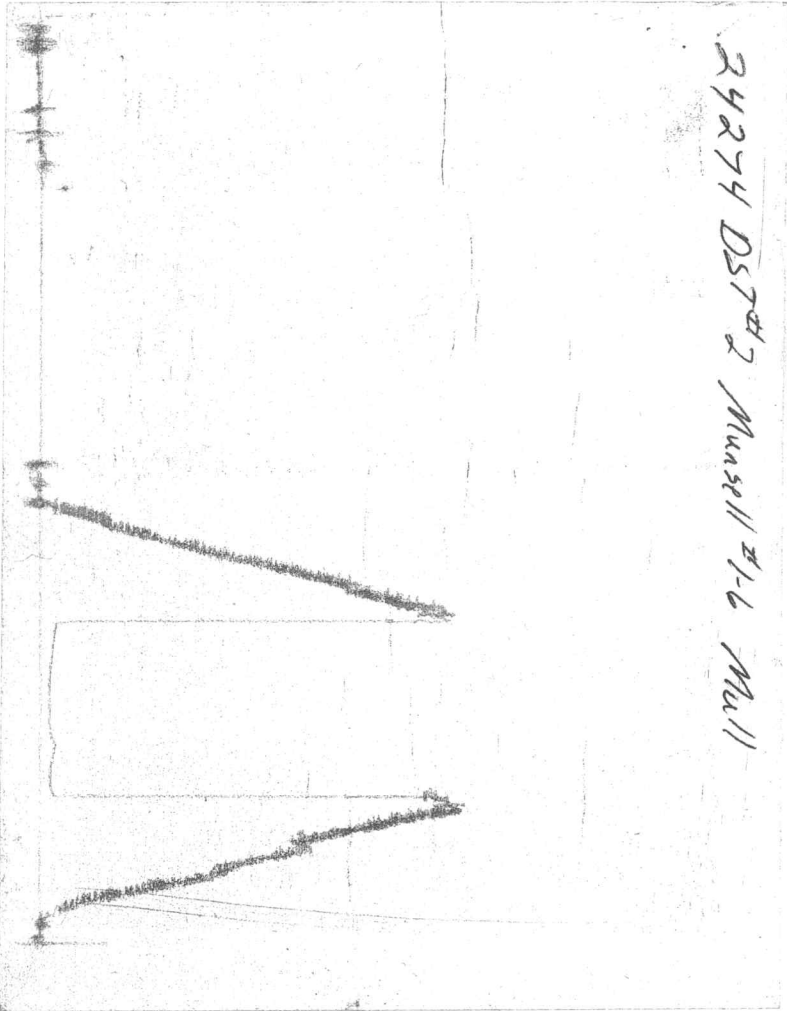
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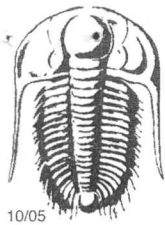
Approved By Kevin Kessler  
 Our Representative Chuck Smith

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

24274 D57<sup>th</sup> 2 Mussell 7-6 Mu11





# TRILOBITE TESTING INC.

No 24275

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Munsell #1-6 Test No. 3 Date 7-25-06  
 Company Mull Drilling Co. Zone Tested L/KC "K"  
 Address POB 2758 Wichita, Ks 67201-2758 Elevation 2701 KB 2692 GL  
 Co. Rep / Geo. Kevin Kessler Rig Duke #4  
 Location: Sec. 6 Twp. 17s Rge. 27w Co. Lane State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4240 to 4280 Initial Str Wt./Lbs. 40,000 Unseated Str Wt/Lbs. 43,000  
 Anchor Length 40 Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 55,000  
 Top Packer Depth 4236 Tool Weight 1,500  
 Bottom Packer Depth 4240 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4280 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.4 LCM Tr \_\_\_\_\_ Vis. 55 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 4,250

Blow Description IF: B.O.B. @ 6min.  
ISI: No return.  
FF: B.O.B. @ 22min.  
FSI: Return blow built 701", died @ 65min.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>830</u>	<u>300</u>	<u>0</u>	<u>830</u>
Rec. <u>5</u> Feet of <u>FO</u>	%gas <u>100</u> %oil _____ %water _____ %mud _____		
Rec. <u>45</u> Feet of <u>WOCM</u>	%gas <u>20</u> %oil <u>20</u> %water <u>60</u> %mud _____		
Rec. <u>100</u> Feet of <u>GMCO</u>	<u>10</u> %gas <u>75</u> %oil _____ %water <u>15</u> %mud _____		
Rec. <u>140</u> Feet of <u>6DWCM</u>	<u>10</u> %gas <u>5</u> %oil <u>30</u> %water <u>55</u> %mud _____		
Rec. <u>540</u> <del>580</del> Feet of <u>MCW</u> <u>Scum of oil</u>	%gas _____ %oil <u>95</u> %water <u>5</u> %mud _____		
BHT <u>127</u> °F Gravity <u>38</u> °API D @ <u>70</u> °F Corrected Gravity <u>37</u> °API			
RW <u>.655</u> @ <u>73</u> °F Chlorides <u>11000</u> ppm Recovery <u>11,000</u> Chlorides <u>5,100</u> ppm System			

AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud	<u>2,097</u> PSI	<u>8017</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>41</u> PSI (depth)	<u>4,243</u>	Jars _____
(C) First Final Flow Pressure	<u>128</u> PSI	<u>13276</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>764</u> PSI (depth)	<u>4,275</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	<u>128</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>412</u> PSI (depth)	Recorder No. _____	Straddle _____
(G) Final Shut-In Pressure	<u>755</u> PSI	<b>Initial Opening</b> <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2,023</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
		Final Flow <u>60</u>	Ruined Packer _____
		Final Shut-In <u>120</u>	Mileage <u>87</u> <u>108.75</u>
		<b>T-On Location</b> <u>21:45</u>	Sub Total: <u>1208.75</u>
		T-Started <u>21:49</u>	Std. By _____
		T-Open <u>23:36</u>	Acc. Chg: _____
		T-Pulled <u>03:1</u>	Other: _____
		T-Out <u>06:25</u>	Total: _____

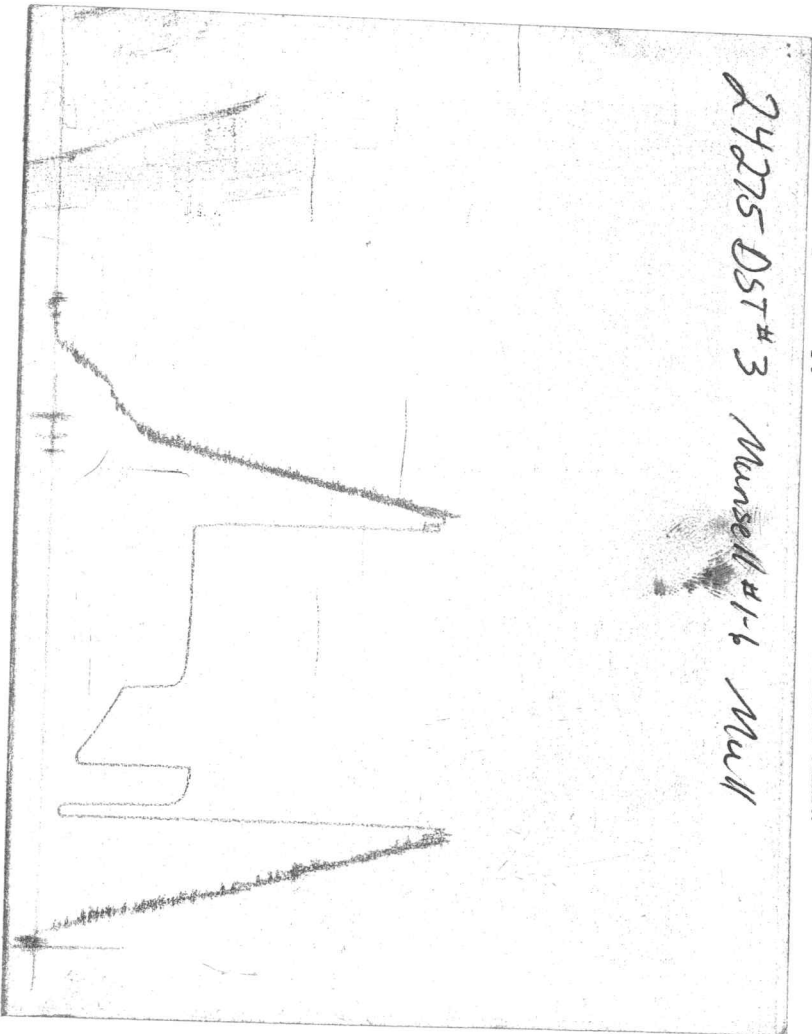
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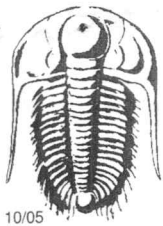
Approved By Kevin Kessler  
 Our Representative Chuck Smith

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

242775 DST # 3 Munsell #1-6 Mu 11





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25576

## Test Ticket

Well Name & No. Munsell #1-6 Test No. 4 Date 7-26-06  
 Company Mull Drilling Co. Zone Tested Marmaton  
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2701 KB 2692 GL  
 Co. Rep / Geo. Kevin Kessler Rig Duke #4  
 Location: Sec. 6 Twp. 17s Rge. 27w Co. Lane State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4300 to 4380 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000  
 Anchor Length 80 Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 48,000  
 Top Packer Depth 4296 Tool Weight 1,500  
 Bottom Packer Depth 4300 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4380 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.2 LCM Tr Vis. 54 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4310

Blow Description IF: Weak surface blow built to 1/2", receded to 1/4".  
ISI: No return.  
FF: No blow.  
FSI: No return.

Recovery - Total Feet 10 GIP 0 Ft. in DC 0 Ft. in DP 10  
 Rec. 10 Feet of OCM %gas 2 %oil \_\_\_\_\_ %water 98 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 120 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,400 ppm System

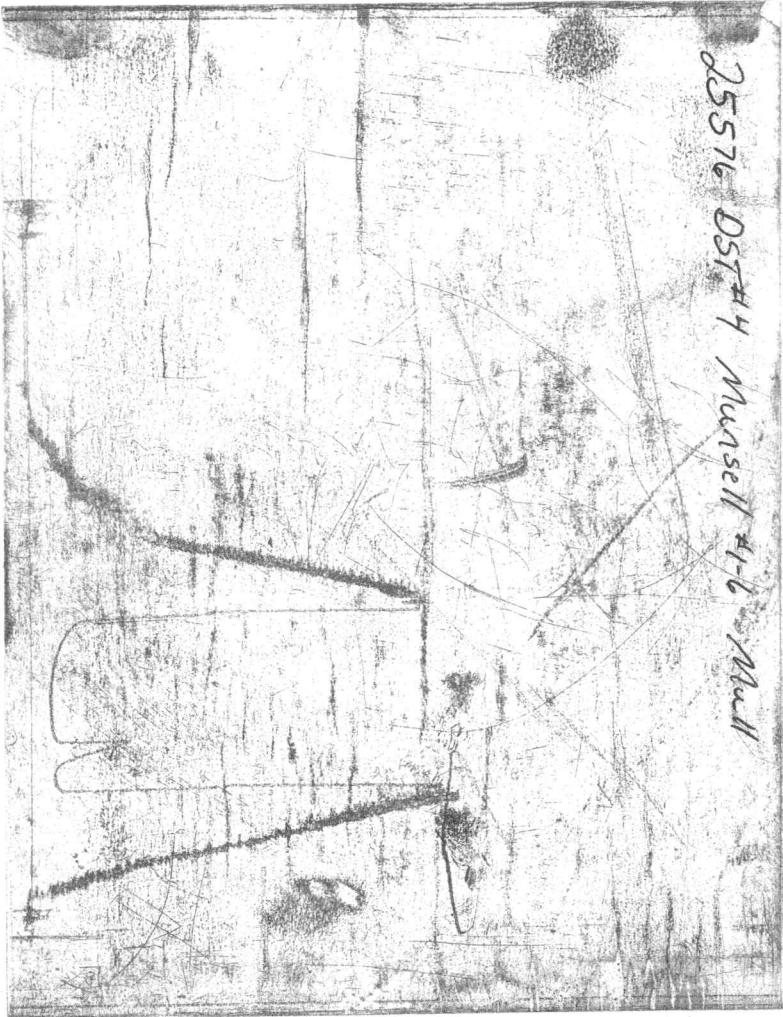
	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud		<u>2,115</u> PSI	<u>8017</u>	<u>1,100<sup>00</sup></u>
(B) First Initial Flow Pressure		<u>16</u> PSI	(depth) <u>4,303</u>	Jars _____
(C) First Final Flow Pressure		<u>17</u> PSI	Recorder No. <u>13276</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>498</u> PSI	(depth) <u>4375</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure		<u>17</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>18</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>208</u> PSI	<b>Initial Opening</b> <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2,053</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>87</u> <u>108.75</u>
			<b>T-On Location</b> <u>21:15 pm</u>	Sub Total: <u>1208.75</u>
			T-Started <u>21:30 pm</u>	Std. By _____
			T-Open <u>23:22 pm</u>	Acc. Chg: _____
			T-Pulled <u>01:03 am</u>	Other: _____
			T-Out <u>03:24 am</u>	Total: _____

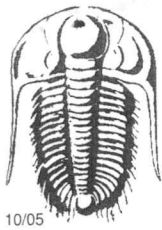
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Approved By Kevin Kessler  
 Our Representative Chuck Smith

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25577

## Test Ticket

Well Name & No. Munsell #1-6 Test No. 5 Date 7-28-06  
 Company Mull Drilling Co. Zone Tested Ft Scott / Cherokee  
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2701 KB 2692 GL  
 Co. Rep / Geo. Kevin Kessler Rig Duke #4  
 Location: Sec. 6 Twp. 17s Rge. 27w Co. Lane State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4470-4560 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 43,000  
 Anchor Length 90 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 73,000  
 Top Packer Depth 4466 Tool Weight 1,500  
 Bottom Packer Depth 4470 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4560 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.2 LCMT X Vis. 52 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4,463

Blow Description IF: Surface blow built to 23"  
ISI: Return built to 1"  
FF: Blow built to 6"  
FSI:

Recovery - Total Feet 25 GIP 180 Ft. in DC 0 Ft. in DP 25  
 Rec. 25 Feet of OCM %gas 10 %oil \_\_\_\_\_ %water 90 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 125 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,200 ppm System

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud	2,192	PSI	8017	1,100 <sup>00</sup>
(B) First Initial Flow Pressure	17	PSI	(depth) 4473	Jars _____
(C) First Final Flow Pressure	17	PSI	Recorder No. 13276	Safety Jt. _____
(D) Initial Shut-In Pressure	42	PSI	(depth) 4,555	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	19	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	23	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	291	PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	2,129	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer <u>X</u> <u>200<sup>00</sup></u>
			Final Shut-In <u>120</u>	Mileage <u>87</u> <u>108.75</u>
			T-On Location <u>00:19am</u>	Sub Total: <u>1408.75</u>
			T-Started <u>01:05am</u>	Std. By <u>X/4</u> <u>37.50</u>
			T-Open <u>03:08am</u>	Acc. Chg: _____
			T-Pulled <u>06:3</u>	Other: _____
			T-Out <u>09:32</u>	Total: <u>\$ 1446.25</u>

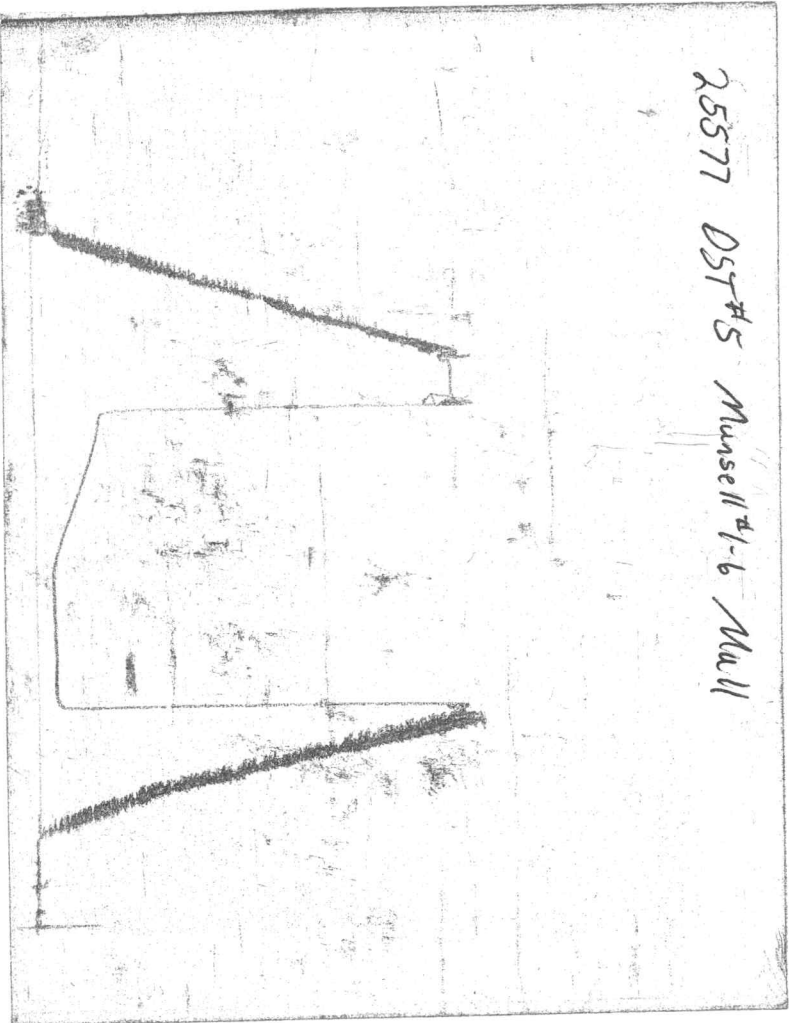
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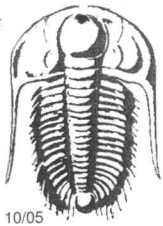
Approved By Kevin A Kessler  
 Our Representative Chuck Smith

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

25577 D5T#5 Munse 11<sup>th</sup> 1-6 Mu 11





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25578

## Test Ticket

Well Name & No. Munsell #1-6 Test No. 6 Date 7-28-06  
 Company Mull Drilling Co. Zone Tested Cherokee Sand  
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2701 KB 2692 GL  
 Co. Rep / Geo. Kevin Kessler Rig Duke #4  
 Location: Sec. 6 Twp. 17s Rge. 27w Co. Lane State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4561 to 4581 Initial Str Wt./Lbs. 41,000 Unseated Str Wt/Lbs. 24,000  
 Anchor Length 20 Wt. Set Lbs. 23,000 Wt. Pulled Loose/Lbs. 51,000  
 Top Packer Depth 4557 Tool Weight 1,700  
 Bottom Packer Depth 4561 Hole Size 7 7/8" X Rubber Size 6 3/4" X  
 Total Depth 4581 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.3 LCM Tr Vis. 50 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 4,565

Blow Description IF: Weak surface blow died @ 15 sec.  
ISI: No return.  
FF: No blow.  
FSI: No return.

Recovery - Total Feet 2 GIP 0 Ft. in DC 0 Ft. in DP 2  
 Rec. 2 Feet of Mud w/seum of oil %gas %oil %water 100 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 123 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,400 ppm System

	AK-1	Alpine	Recorder No.	Test X
(A) Initial Hydrostatic Mud		<u>2,259</u> PSI	<u>8017</u>	<u>1,100.00</u>
(B) First Initial Flow Pressure		<u>16</u> PSI	(depth) <u>4,566</u>	Jars <u>X</u> <u>250.00</u>
(C) First Final Flow Pressure		<u>18</u> PSI	Recorder No. <u>13276</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>232</u> PSI	(depth) <u>4,576</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure		<u>18</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>18</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>164</u> PSI	<b>Initial Opening</b> <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2,250</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>15</u>	Ruined Packer _____
			Final Shut-In <u>30</u>	Mileage <u>87</u> <u>108.75</u>
			<b>T-On Location</b> <u>16:14</u>	Sub Total: <u>1458.75</u>
			T-Started <u>17:05</u>	Std. By _____
			T-Open <u>18:57</u>	Acc. Chg: _____
			T-Pulled <u>20:24</u>	Other: _____
			T-Out <u>22:45</u>	Total: _____

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Approved By Kevin Kessler

Our Representative Chuck Smith

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

25578 DST #6 Mansell #1-6 Mark

