



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling CO**

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.08 @ 11:56:00

End Date: 2006.12.08 @ 19:28:45

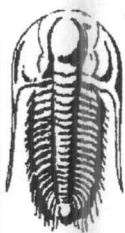
Job Ticket #: 25649

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 25649

DST#: 1

Test Start: 2006.12.08 @ 11:56:00

GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:04:45

Time Test Ended: 19:28:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **3970.00 ft (KB) To 4020.00 ft (KB) (TVD)**

Total Depth: 4020.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2783.00 ft (KB)

2773.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017 Inside

Press@RunDepth: 33.73 psig @ 3973.00 ft (KB)

Start Date: 2006.12.08

End Date:

2006.12.08

Start Time: 11:56:01

End Time:

19:28:45

Capacity: 7000.00 psig

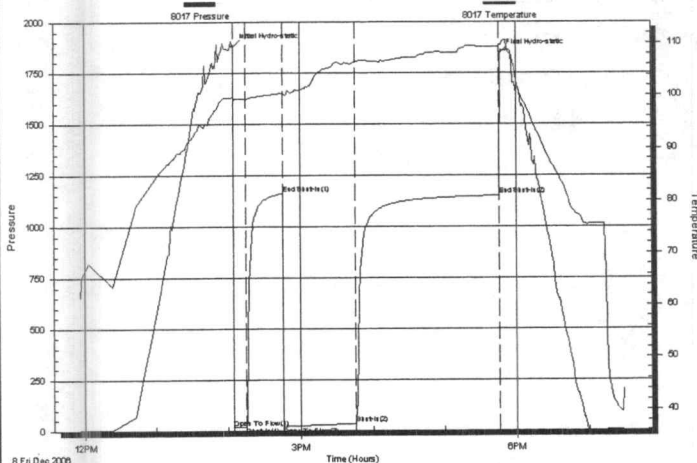
Last Calib.: 2006.12.08

Time On Btm: 2006.12.08 @ 14:04:30

Time Off Btm: 2006.12.08 @ 17:46:15

TEST COMMENT: IF Weak surface blow built to 3/4 "
ISI No return
FF Weak surface blow built to 2 "
FSI No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.02	99.68	Initial Hydro-static
1	15.44	98.71	Open To Flow (1)
11	18.39	99.29	Shut-In(1)
41	1160.61	100.44	End Shut-In(1)
42	19.26	100.18	Open To Flow (2)
101	33.73	106.35	Shut-In(2)
222	1150.13	109.38	End Shut-In(2)
222	1846.62	109.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%M	0.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling CO
PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 25649

DST#: 1

Test Start: 2006.12.08 @ 11:56:00

Tool Information

Drill Pipe:	Length:	3979.00 ft	Diameter:	3.80 inches	Volume:	55.81 bbl
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl
					Total Volume:	55.81 bbl

Drill Pipe Above KB: 29.00 ft
Depth to Top Packer: 3970.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 50.00 ft
Tool Length: 70.00 ft
Number of Packers: 2
Tool Comments:

Diameter: 6.75 inches

Tool Weight: 1500.00 lb
Weight set on Packer: 30000.00 lb
Weight to Pull Loose: 60000.00 lb
Tool Chased: 0.00 ft
String Weight: Initial 51000.00 lb
Final 51000.00 lb

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3951.00	
Shut In Tool	5.00			3956.00	
Hydraulic tool	5.00			3961.00	
Packer	5.00			3966.00	20.00 Bottom Of Top Packer
Packer	4.00			3970.00	
Stubb	1.00			3971.00	
Perforations	2.00			3973.00	
Recorder	0.00	8017	Inside	3973.00	
Perforations	10.00			3983.00	
Change Over Sub	1.00			3984.00	
Drill Pipe	30.00			4014.00	
Change Over Sub	1.00			4015.00	
Recorder	0.00	13276	Inside	4015.00	
Bullnose	5.00			4020.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Terwilliger A #1-8

PO Box 2758
Wichita KS 67201-2758

8 17S 28W Lane KS

ATTN: Kevin Kessler

Job Ticket: 25649

DST#: 1

Test Start: 2006.12.08 @ 11:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.17 in³

Resistivity: 0.00 ohm.m

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	100%M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of Oil in 40 feet.

DST Test Number: 1

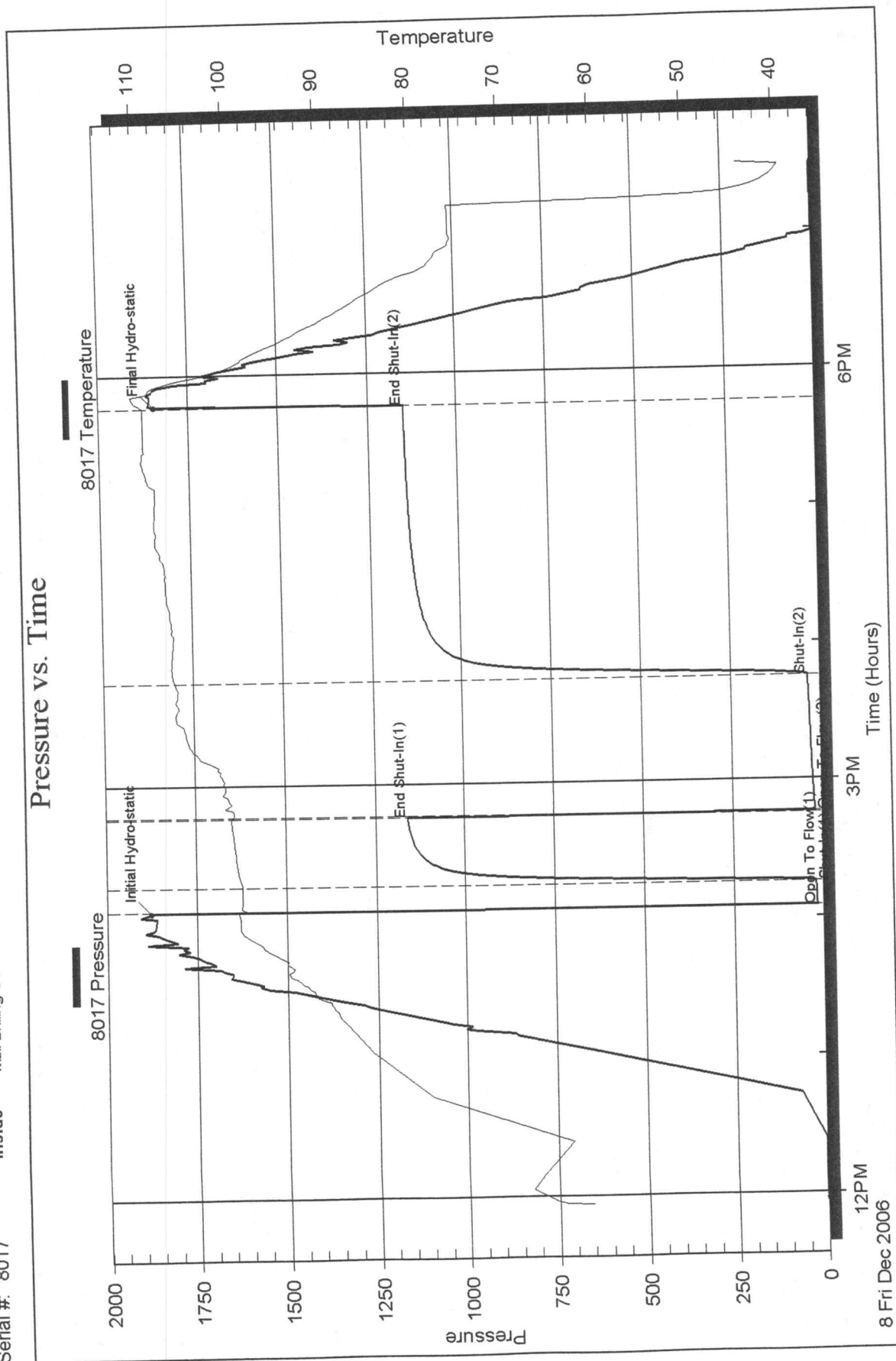
8 17S 28W Lane KS

Mull Drilling CO

Inside

Serial #: 8017

Pressure vs. Time



Ref. No: 25649

Trilobite Testing, Inc



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling CO**

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.09 @ 13:06:00

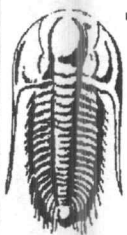
End Date: 2006.12.09 @ 18:16:45

Job Ticket #: 25650 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

Terwilliger A #1-8
8 17S 28W Lane KS
Job Ticket: 25650 **DST#: 2**
Test Start: 2006.12.09 @ 13:06:00

GENERAL INFORMATION:

Formation: **Lansing "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:36:30
Time Test Ended: 18:16:45

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Interval: **4140.00 ft (KB) To 4180.00 ft (KB) (TVD)**
Total Depth: 4180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2783.00 ft (KB)
2773.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8017

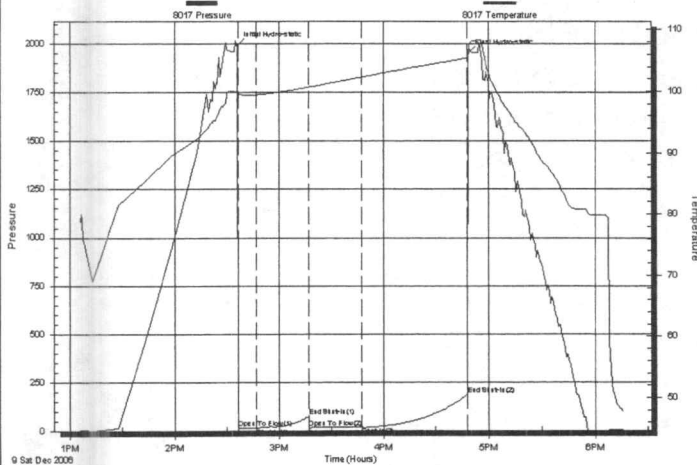
Inside

Press@RunDepth: 16.72 psig @ 4143.00 ft (KB)
Start Date: 2006.12.09 End Date: 2006.12.09
Start Time: 13:06:01 End Time: 18:16:45

Capacity: 7000.00 psig
Last Calib.: 2006.12.09
Time On Btm: 2006.12.09 @ 14:36:00
Time Off Btm: 2006.12.09 @ 16:48:30

TEST COMMENT: IF: Weak surface blow.
IS: No return.
FF: No blow.
FSI: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.33	100.01	Initial Hydro-static
1	15.65	99.56	Open To Flow (1)
11	16.18	99.45	Shut-In(1)
41	73.11	100.67	End Shut-In(1)
41	15.43	100.65	Open To Flow (2)
72	16.72	102.30	Shut-In(2)
132	181.50	105.39	End Shut-In(2)
133	1948.64	105.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M 100%M	0.04

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 25650

DST#: 2

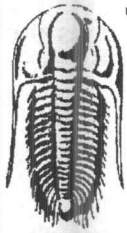
Test Start: 2006.12.09 @ 13:06:00

Tool Information

Drill Pipe:	Length: 4131.00 ft	Diameter: 3.80 inches	Volume: 57.95 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:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	57.95 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	4140.00 ft			Final	51000.00 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			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	
Change Over Sub	1.00			4144.00	
Drill Pipe	30.00			4174.00	
Change Over Sub	1.00			4175.00	
Recorder	0.00	13309	Inside	4175.00	
Bullnose	5.00			4180.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Terwilliger A #1-8

PO Box 2758
Wichita KS 67201-2758

8 17S 28W Lane KS

Job Ticket: 25650

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.12.09 @ 13:06:00

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: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M 100%M	0.042

Total Length: 3.00 ft

Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

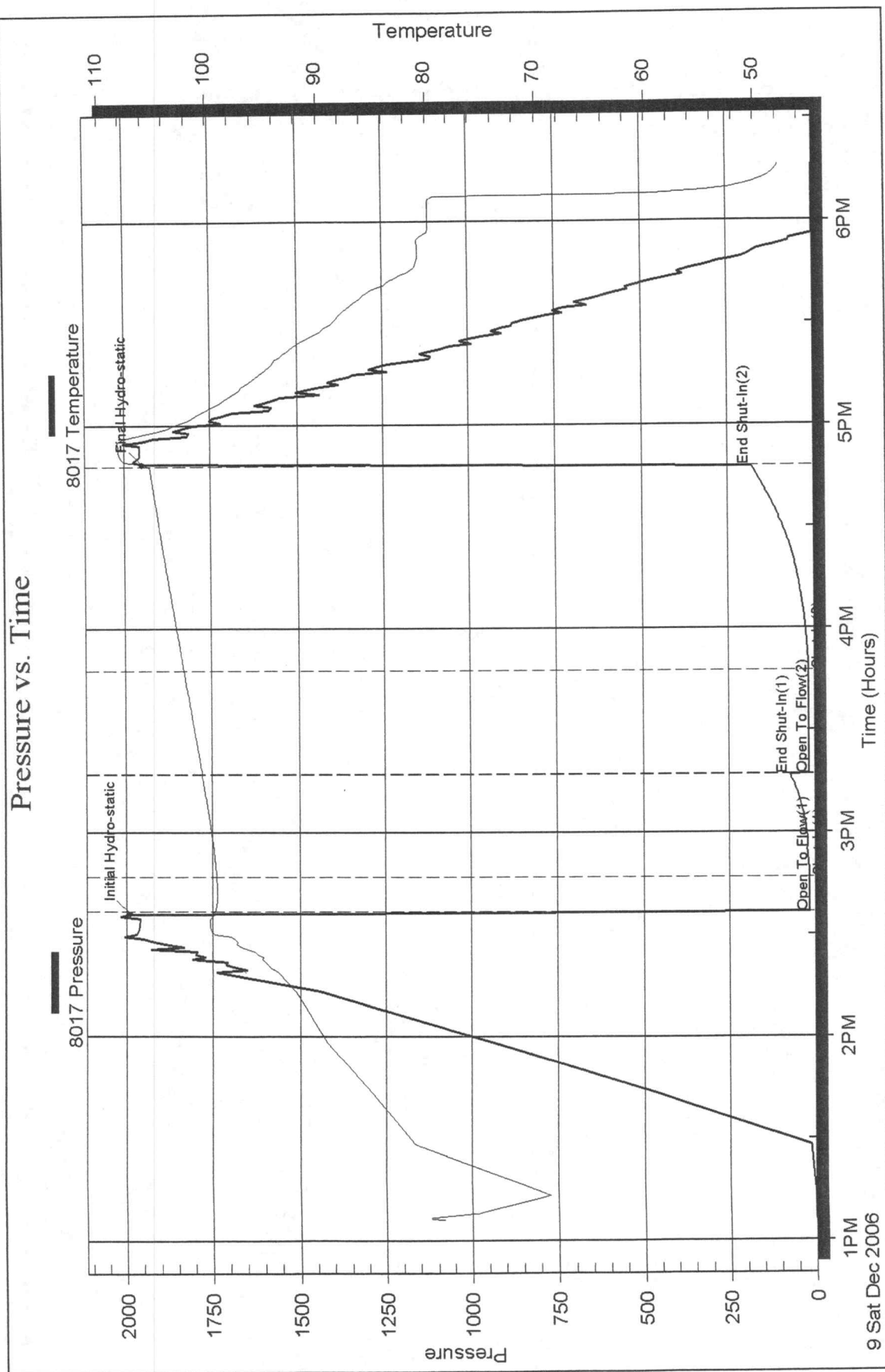
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **Mull Drilling CO**

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.10 @ 04:43:00

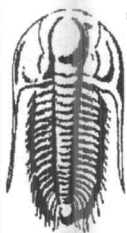
End Date: 2006.12.10 @ 10:28:00

Job Ticket #: 26576 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
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DRILL STEM TEST REPORT

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

Terwilliger A #1-8
8 17S 28W Lane KS
Job Ticket: 26576 **DST#: 3**
Test Start: 2006.12.10 @ 04:43:00

GENERAL INFORMATION:

Formation: **Lansing "I, J"**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 06:24:45
Time Test Ended: 10:28:00
Interval: **4175.00 ft (KB) To 4235.00 ft (KB) (TVD)**
Total Depth: **4275.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2783.00 ft (KB)**
2773.00 ft (CF)
KB to GR/CF: **10.00 ft**

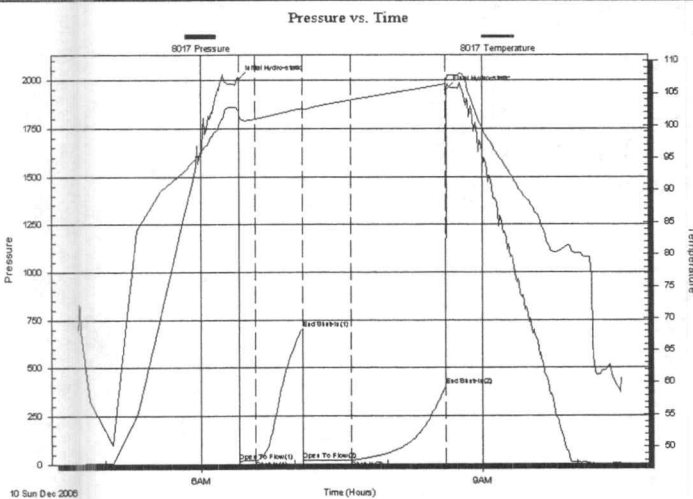
Serial #: 8017

Inside

Press@RunDepth: **18.96 psig @ 4178.00 ft (KB)**
Start Date: **2006.12.10** End Date: **2006.12.10**
Start Time: **04:43:01** End Time: **10:28:00**

Capacity: **7000.00 psig**
Last Calib.: **2006.12.10**
Time On Btm: **2006.12.10 @ 06:24:30**
Time Off Btm: **2006.12.10 @ 08:37:15**

TEST COMMENT: IF Weak blow
ISI No return
FF No blow
FSI No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.54	102.29	Initial Hydro-static
1	15.79	101.63	Open To Flow (1)
11	16.89	101.03	Shut-In (1)
41	704.38	102.63	End Shut-In (1)
42	17.40	102.49	Open To Flow (2)
72	18.96	103.94	Shut-In (2)
133	406.31	106.39	End Shut-In (2)
133	1949.45	107.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26576

DST#: 3

Test Start: 2006.12.10 @ 04:43:00

Tool Information

Drill Pipe:	Length:	4163.00 ft	Diameter:	3.80 inches	Volume:	58.40 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:	30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	58.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4175.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		60.00 ft						
Tool Length:		80.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4156.00	
Shut In Tool	5.00			4161.00	
Hydraulic tool	5.00			4166.00	
Packer	5.00			4171.00	20.00 Bottom Of Top Packer
Packer	4.00			4175.00	
Stubb	1.00			4176.00	
Perforations	2.00			4178.00	
Recorder	0.00	8017	Inside	4178.00	
Perforations	20.00			4198.00	
Change Over Sub	1.00			4199.00	
Drill Pipe	30.00			4229.00	
Change Over Sub	1.00			4230.00	
Recorder	0.00	13309	Inside	4230.00	
Bullnose	5.00			4235.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Terwilliger A #1-8

PO Box 2758
Wichita KS 67201-2758

8 17S 28W Lane KS

Job Ticket: 26576

DST#: 3

ATTN: Kevin Kessler

Test Start: 2006.12.10 @ 04:43:00

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: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

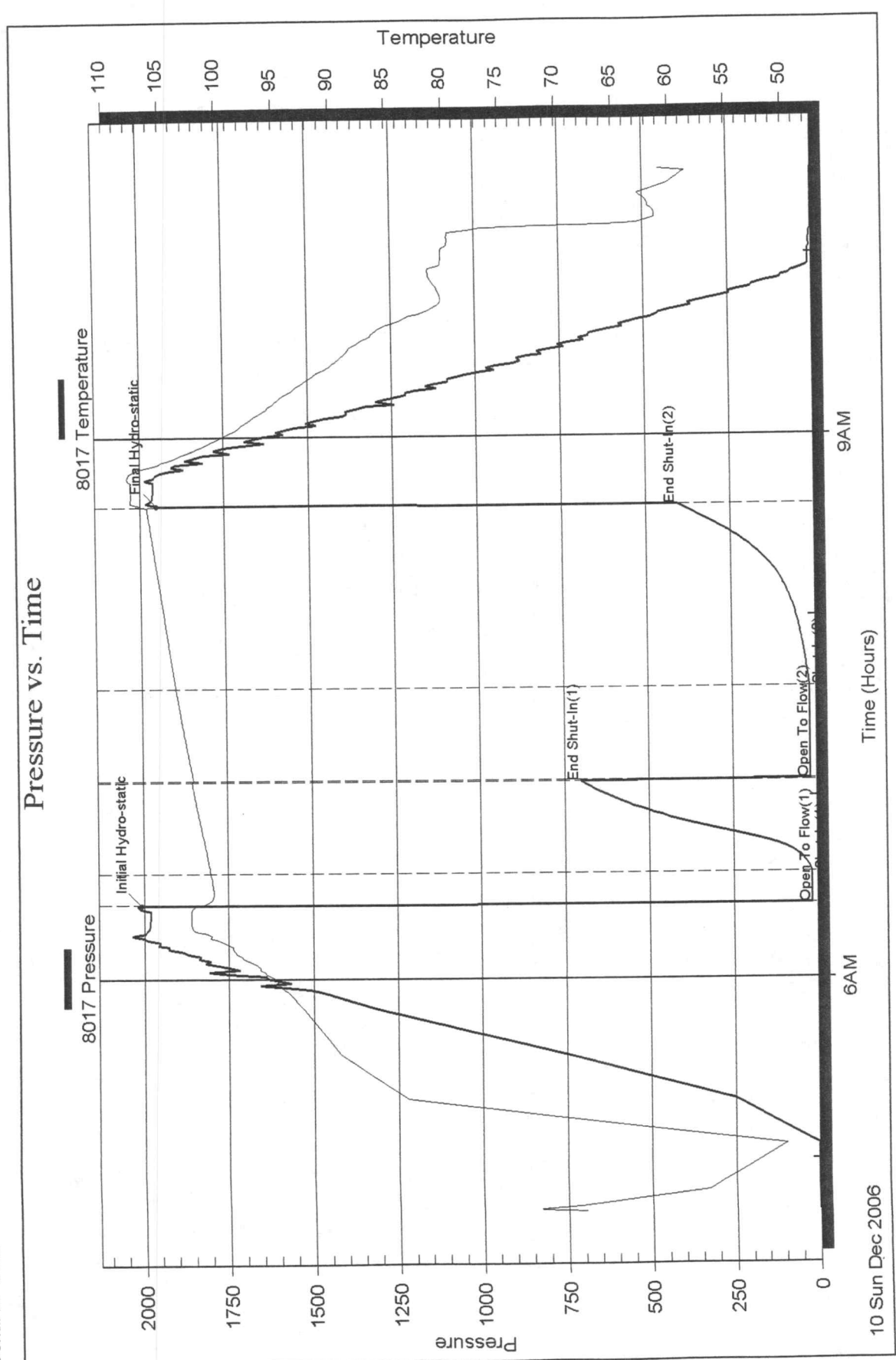
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of Oil in 5 feet.

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

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.10 @ 18:49:00

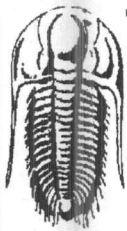
End Date: 2006.12.11 @ 02:46:00

Job Ticket #: 26577 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
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DRILL STEM TEST REPORT

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

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26577

DST#: 4

Test Start: 2006.12.10 @ 18:49:00

GENERAL INFORMATION:

Formation: **Lansing "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:43:15

Time Test Ended: 02:46:00

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4235.00 ft (KB) To 4275.00 ft (KB) (TVD)**

Total Depth: 4275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2783.00 ft (KB)

2773.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: 98.23 psig @ 4238.00 ft (KB)

Start Date: 2006.12.10

End Date:

2006.12.11

Start Time: 18:49:01

End Time:

02:46:00

Capacity: 7000.00 psig

Last Calib.: 2006.12.11

Time On Btm: 2006.12.10 @ 20:43:00

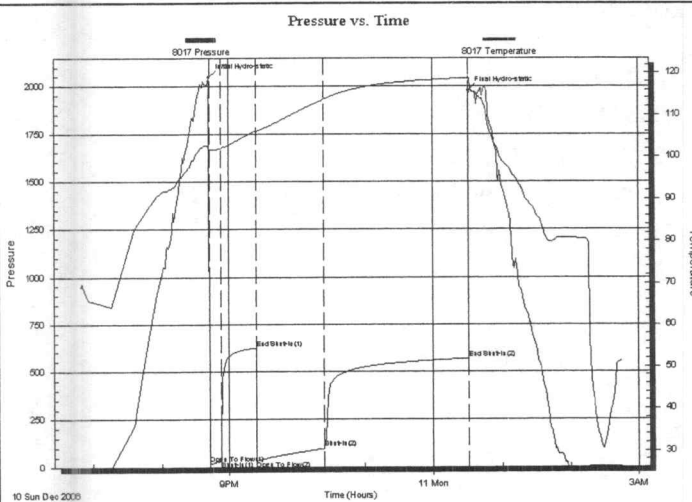
Time Off Btm: 2006.12.11 @ 00:31:00

TEST COMMENT: IF Surface blow built to 3 3/4 "

ISI No return

FF Surface blow built to 10 "

FSI No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.97	102.23	Initial Hydro-static
1	17.36	101.40	Open To Flow (1)
11	33.33	101.94	Shut-In (1)
42	624.06	106.11	End Shut-In (1)
42	35.27	106.04	Open To Flow (2)
102	98.23	113.61	Shut-In (2)
228	568.07	118.75	End Shut-In (2)
228	1976.03	119.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100%M	0.14
114.00	MCW 10%M 90%W	1.60
31.00	SOMCW 3%O 5%M 92%W	0.43
1.00	FO	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26577

DST#: 4

Test Start: 2006.12.10 @ 18:49:00

Tool Information

Drill Pipe:	Length:	4226.00 ft	Diameter:	3.80 inches	Volume:	59.28 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:	30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	59.28 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4235.00 ft					Final	51000.00 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			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Packer	5.00			4231.00	20.00 Bottom Of Top Packer
Packer	4.00			4235.00	
Stubb	1.00			4236.00	
Perforations	2.00			4238.00	
Recorder	0.00	8017	Inside	4238.00	
Change Over Sub	1.00			4239.00	
Drill Pipe	30.00			4269.00	
Change Over Sub	1.00			4270.00	
Recorder	0.00	13309	Inside	4270.00	
Bullnose	5.00			4275.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26577

DST#: 4

Test Start: 2006.12.10 @ 18:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 6.39 in³

Resistivity: 0.00 ohm.m

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

31000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M 100%M	0.140
114.00	MCW 10%M 90%W	1.599
31.00	SOMCW 3%O 5%M 92%W	0.435
1.00	FO	0.014

Total Length: 156.00 ft Total Volume: 2.188 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

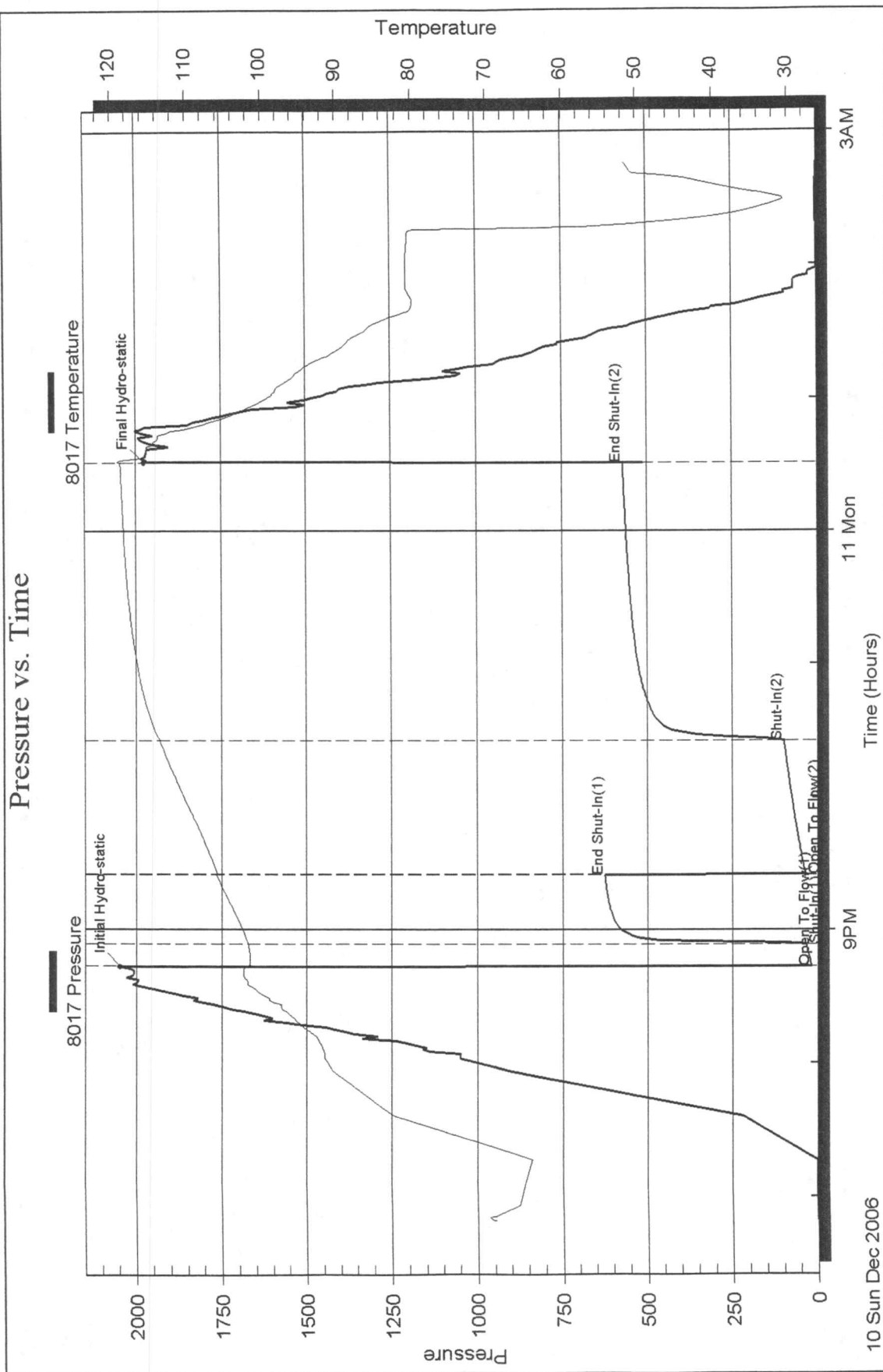
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .483 @ 33.5 degrees F = 31000 chlorides

Spots of Oil in 125 feet of recovery

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling CO**

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.11 @ 18:51:00

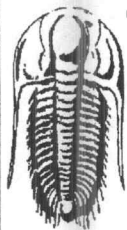
End Date: 2006.12.12 @ 02:51:45

Job Ticket #: 26579 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

Terwilliger A #1-8
8 17S 28W Lane KS
Job Ticket: 26579 **DST#: 5**
Test Start: 2006.12.11 @ 18:51:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:50:30
Time Test Ended: 02:51:45

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Interval: **4300.00 ft (KB) To 4400.00 ft (KB) (TVD)**
Total Depth: 4400.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2783.00 ft (KB)
2773.00 ft (CF)
KB to GR/CF: 10.00 ft

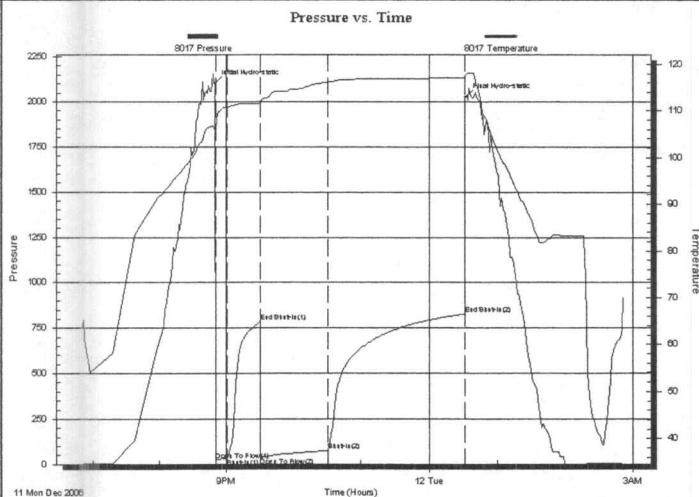
Serial #: 8017

Inside

Press@RunDepth: 73.89 psig @ 4303.00 ft (KB)
Start Date: 2006.12.11 End Date:
Start Time: 18:51:01 End Time:

Capacity: 7000.00 psig
Last Calib.: 2006.12.12
Time On Btm: 2006.12.11 @ 20:50:00
Time Off Btm: 2006.12.12 @ 00:31:45

TEST COMMENT: IF Surface blow built to 11"
ISI No return
FF 2 " blow built to BOB @ 8 min.
FSI No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.75	106.11	Initial Hydro-static
1	19.89	105.57	Open To Flow (1)
11	32.99	110.59	Shut-In(1)
41	782.72	111.58	End Shut-In(1)
41	37.32	111.66	Open To Flow (2)
101	73.89	116.14	Shut-In(2)
222	827.65	117.10	End Shut-In(2)
222	2024.15	117.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	GWOCM 15%G 5%W 35%O 45%M	1.89

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

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26579

DST#: 5

Test Start: 2006.12.11 @ 18:51:00

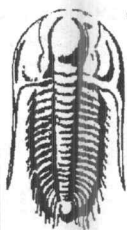
Tool Information

Drill Pipe: Length: 4289.00 ft Diameter: 3.80 inches Volume: 60.16 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl
Total Volume: 60.16 bbl

Tool Weight: 1500.00 lb
Weight set on Packer: 30000.00 lb
Weight to Pull Loose: 70000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 53000.00 lb
Final 54000.00 lb

Drill Pipe Above KB: 9.00 ft
Depth to Top Packer: 4300.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 100.00 ft
Tool Length: 120.00 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	28.00			4331.00	
Change Over Sub	1.00			4332.00	
Drill Pipe	62.00			4394.00	
Change Over Sub	1.00			4395.00	
Recorder	0.00	13309	Inside	4395.00	
Bullnose	5.00			4400.00	100.00 Bottom Packers & Anchor
Total Tool Length:		120.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26579

DST#: 5

Test Start: 2006.12.11 @ 18:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.19 in³

Resistivity: 0.00 ohm.m

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	GWOCM 15%G 5%W 35%O 45%M	1.894

Total Length: 135.00 ft

Total Volume: 1.894 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 500 Feet of gas in pipe.

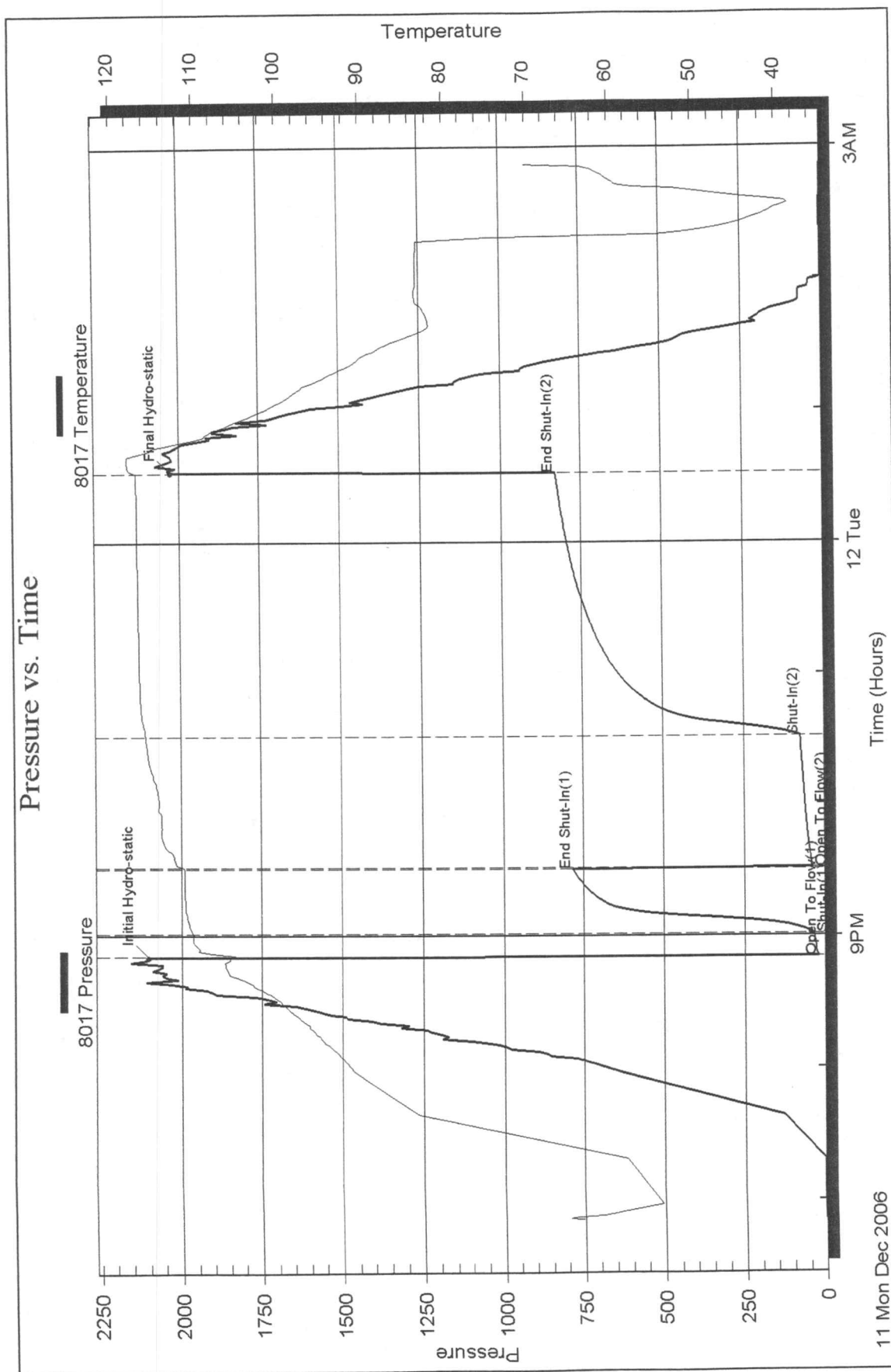
DST Test Number: 5

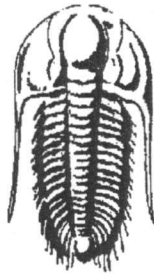
8 17S 28W Lane KS

Inside Mull Drilling CO

Serial #: 8017

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

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.12 @ 23:39:00

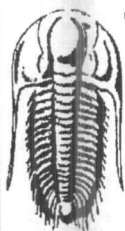
End Date: 2006.12.13 @ 07:44:45

Job Ticket #: 26580 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

Terwilliger A #1-8
8 17S 28W Lane KS
Job Ticket: 26580 **DST#: 6**
Test Start: 2006.12.12 @ 23:39:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 01:31:15
Time Test Ended: 07:44:45

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Interval: **4490.00 ft (KB) To 4560.00 ft (KB) (TVD)**
Total Depth: **4560.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2783.00 ft (KB)**
2773.00 ft (CF)
KB to GR/CF: **10.00 ft**

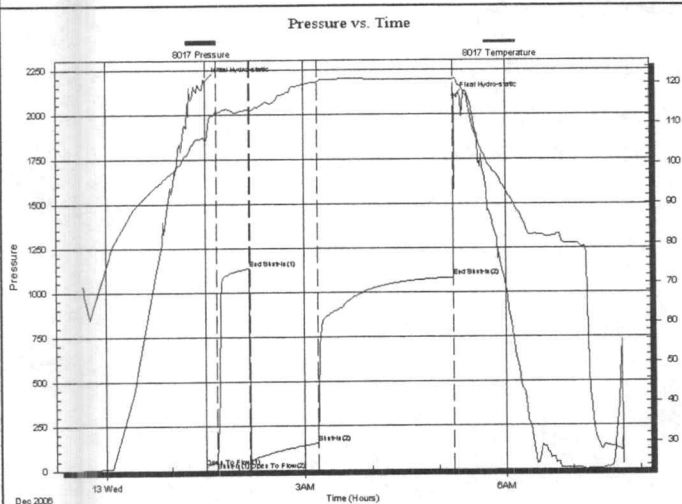
Serial #: 8017

Inside

Press@RunDepth: **153.88 psig @ 4493.00 ft (KB)**
Start Date: **2006.12.12** End Date: **2006.12.13**
Start Time: **23:39:01** End Time: **07:44:45**

Capacity: **7000.00 psig**
Last Calib.: **2006.12.13**
Time On Btm: **2006.12.13 @ 01:31:00**
Time Off Btm: **2006.12.13 @ 05:13:15**

TEST COMMENT: IF Surface blow built to 8 1/2 "
ISI No return
FF 1/2 " blow built to BOB @ 12 min.
FSI Surface return built to 5 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.81	106.17	Initial Hydro-static
1	20.18	105.61	Open To Flow (1)
11	49.42	113.08	Shut-In (1)
40	1136.35	113.30	End Shut-In (1)
41	50.07	113.00	Open To Flow (2)
101	153.88	120.35	Shut-In (2)
222	1082.63	120.94	End Shut-In (2)
223	2096.26	121.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
76.00	GO 20%G 80%O	1.07
76.00	GOCM 10%G 40%O 50%M	1.07
122.00	GOCM 30%G 30%O 40%M	1.71
61.00	GMCO 25%G 35%M 40%O	0.86

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26580

DST#: 6

Test Start: 2006.12.12 @ 23:39:00

Tool Information

Drill Pipe:	Length:	4476.00 ft	Diameter:	3.80 inches	Volume:	62.79 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:	30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	62.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		4490.00 ft					Final	58000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		70.00 ft						
Tool Length:		90.00 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			4471.00	
Shut In Tool	5.00			4476.00	
Hydraulic tool	5.00			4481.00	
Packer	5.00			4486.00	20.00 Bottom Of Top Packer
Packer	4.00			4490.00	
Stubb	1.00			4491.00	
Perforations	2.00			4493.00	
Recorder	0.00	8017	Inside	4493.00	
Perforations	29.00			4522.00	
Change Over Sub	1.00			4523.00	
Drill Pipe	31.00			4554.00	
Change Over Sub	1.00			4555.00	
Recorder	0.00	13309	Inside	4555.00	
Bullnose	5.00			4560.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Terwilliger A #1-8

PO Box 2758
Wichita KS 67201-2758

8 17S 28W Lane KS

Job Ticket: 26580

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.12.12 @ 23:39:00

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:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.49 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
76.00	GO 20%G 80%O	1.066
76.00	GOCM 10%G 40%O 50%M	1.066
122.00	GOCM 30%G 30%O 40%M	1.711
61.00	GMCO 25%G 35%M 40%O	0.856

Total Length: 335.00 ft

Total Volume:

4.699 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

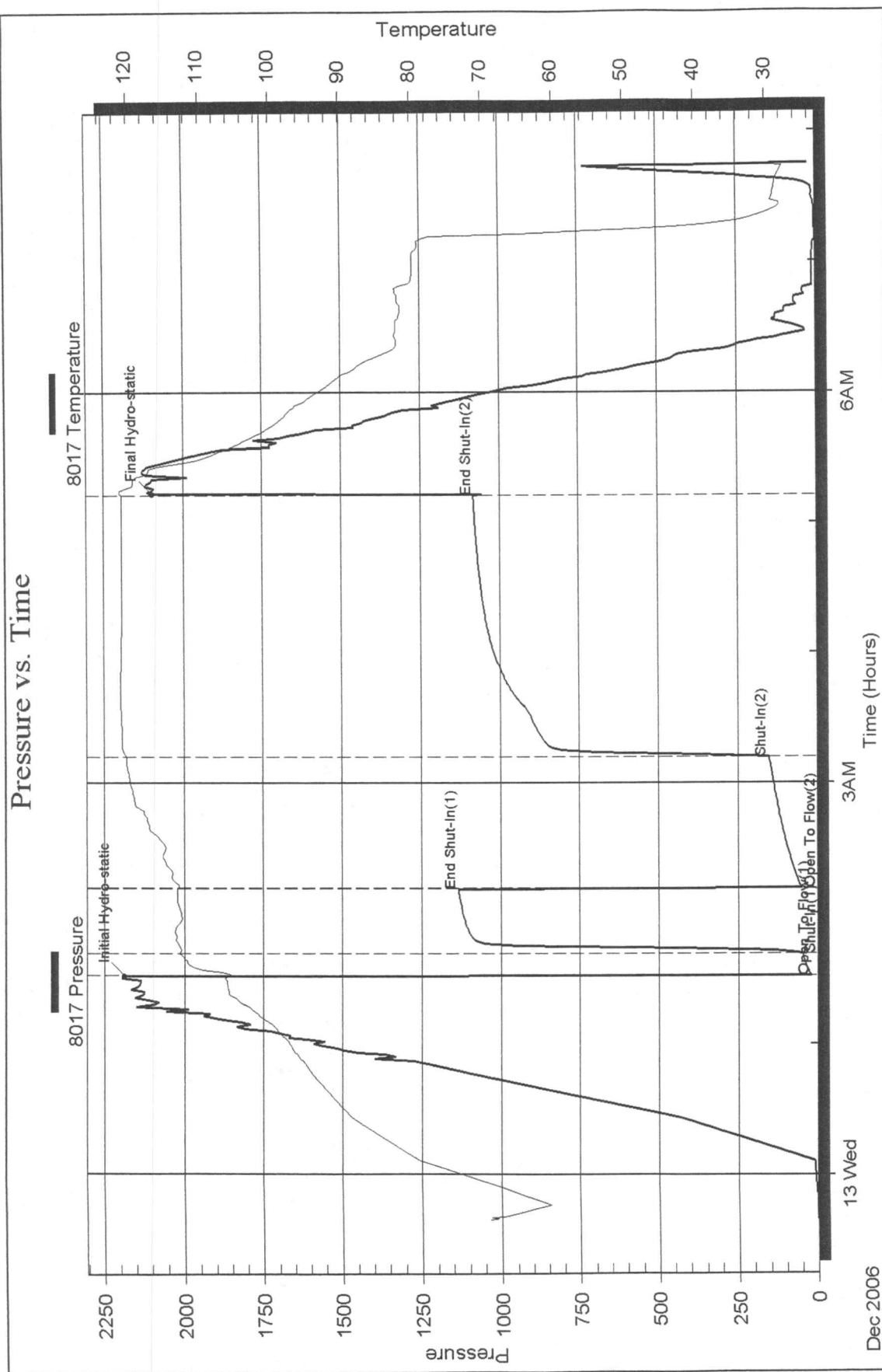
Serial #:

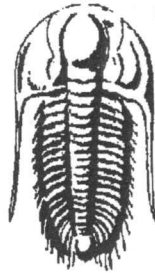
Laboratory Name:

Laboratory Location:

Recovery Comments: API: 34 @ 30 degrees F = 37.

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

8 17S 28W Lane KS

Terwilliger A #1-8

Start Date: 2006.12.13 @ 15:13:00

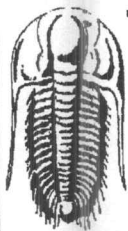
End Date: 2006.12.13 @ 22:26:45

Job Ticket #: 26581 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling CO

PO Box 2758
Wichita KS 67201-2758

ATTN: Kevin Kessler

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26581

DST#: 7

Test Start: 2006.12.13 @ 15:13:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:10:15

Time Test Ended: 22:26:45

Interval: **4555.00 ft (KB) To 4570.00 ft (KB) (TVD)**

Total Depth: 4570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Reference Elevations: 2783.00 ft (KB)

2773.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: 19.36 psig @ 4559.00 ft (KB)

Start Date: 2006.12.13

End Date:

2006.12.13

Start Time: 15:13:01

End Time:

22:26:45

Capacity: 7000.00 psig

Last Calib.: 2006.12.13

Time On Btm: 2006.12.13 @ 18:10:00

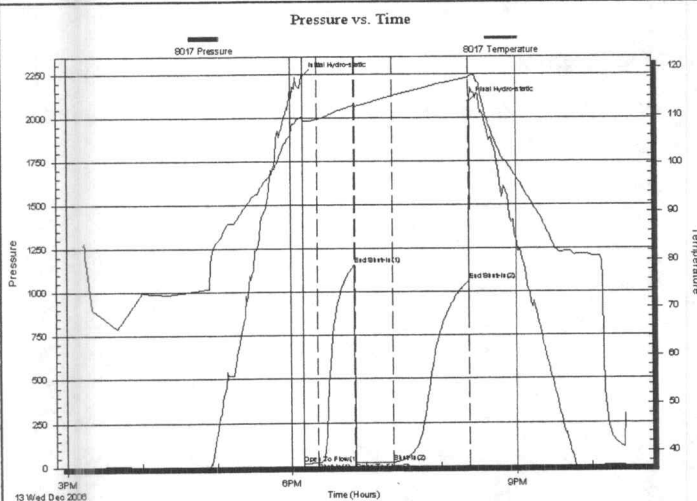
Time Off Btm: 2006.12.13 @ 20:23:00

TEST COMMENT: IF Weak surface blow built to 1/4 "

ISI Surface return died @ 21 min.

FF No blow

FSI No return



PRESSURE SUMMARY

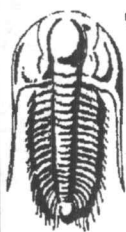
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.76	109.60	Initial Hydro-static
1	16.55	108.96	Open To Flow (1)
12	18.16	109.32	Shut-In (1)
42	1154.46	112.23	End Shut-In (1)
42	18.55	111.99	Open To Flow (2)
72	19.36	114.12	Shut-In (2)
133	1061.68	117.87	End Shut-In (2)
133	2091.78	118.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	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

Terwilliger A #1-8

8 17S 28W Lane KS

Job Ticket: 26581

DST#: 7

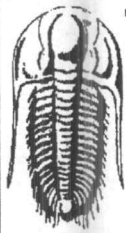
Test Start: 2006.12.13 @ 15:13:00

Tool Information

Drill Pipe:	Length:	4543.00 ft	Diameter:	3.80 inches	Volume:	63.73 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:	30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	56000.00 lb
					Total Volume:	63.73 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight: Initial	53000.00 lb
Depth to Top Packer:		4555.00 ft					Final	53000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		15.00 ft						
Tool Length:		35.00 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			4536.00	
Shut In Tool	5.00			4541.00	
Hydraulic tool	5.00			4546.00	
Packer	5.00			4551.00	20.00 Bottom Of Top Packer
Packer	4.00			4555.00	
Stubb	1.00			4556.00	
Perforations	3.00			4559.00	
Recorder	0.00	8017	Inside	4559.00	
Perforations	6.00			4565.00	
Recorder	0.00	13309	Inside	4565.00	
Bullnose	5.00			4570.00	15.00 Bottom Packers & Anchor

Total Tool Length: 35.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling CO

Terwilliger A #1-8

PO Box 2758
Wichita KS 67201-2758

8 17S 28W Lane KS

Job Ticket: 26581

DST#: 7

ATTN: Kevin Kessler

Test Start: 2006.12.13 @ 15:13:00

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: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	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: Scum of Oil in 2 feet

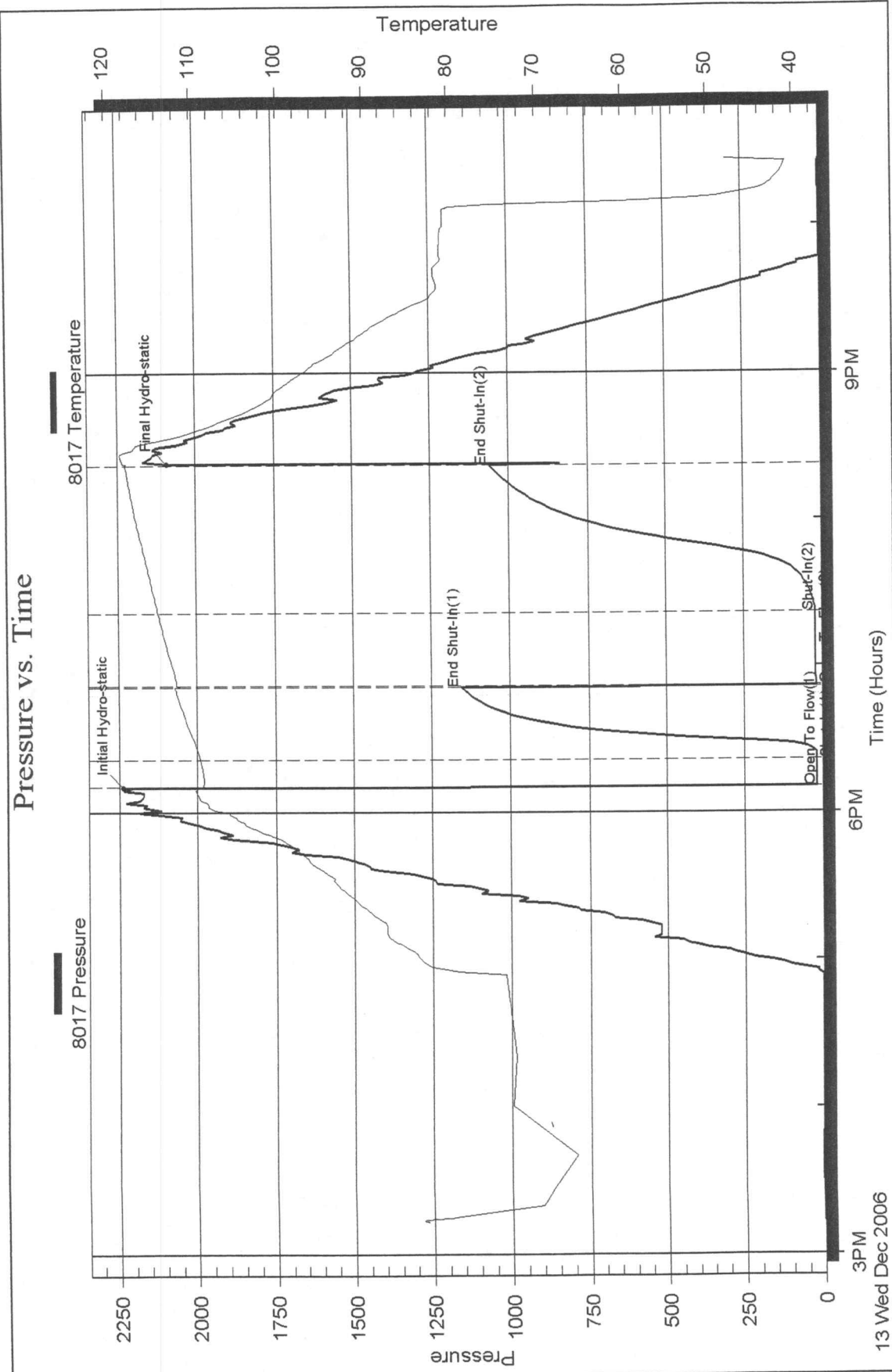
DST Test Number: 7

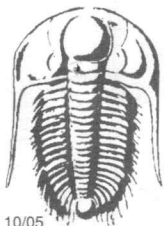
8 17S 28W Lane KS

Mull Drilling CO

Inside

Serial #: 8017





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9644

25649

Test Ticket

Well Name & No. Terwilliger A #1-8 Test No. 1 Date 12-8-06
 Company Mull Drilling Co. Zone Tested Lansing "A"
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2,783 KB 2,773 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 8 Twp. 17E Rge. 28W Co. Lanc State KS
 Comment: _____ Release date / time: _____

Interval Tested 3970-4020 Initial Str Wt./Lbs. 51,000 Unseated Str Wt./Lbs. 60,51,000
 Anchor Length 50 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3964 Tool Weight 1,500
 Bottom Packer Depth 3970 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4020 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 8.9 LCM 1 Vis. 50 WL 7.2 Drill Pipe Size 4 1/2 X 4 Ft. Run 3,970

Blow Description IF: Weak surface blow built to 3/4"

ISI: No return.

FF: Weak surface blow built to 2"

FSI: No return.

Recovery - Total Feet 40 GIP - Ft. in DC 0 Ft. in DP 40
 Rec. 40 Feet of M spots 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 109 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,200 ppm System

(A) Initial Hydrostatic Mud	<u>1,907</u> PSI	Recorder No.	<u>8017</u>	Test <u>X</u>	<u>1,200"</u>
(B) First Initial Flow Pressure	<u>15</u> PSI	(depth)	<u>3,973</u>	Jars	
(C) First Final Flow Pressure	<u>18</u> PSI	Recorder No.	<u>13276</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>1,161</u> PSI	(depth)	<u>4015</u>	Circ Sub	<u>N/C</u>
(E) Second Initial Flow Pressure	<u>19</u> PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>34</u> PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>1,150</u> PSI	Initial Opening	<u>10</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1,870</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer	

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

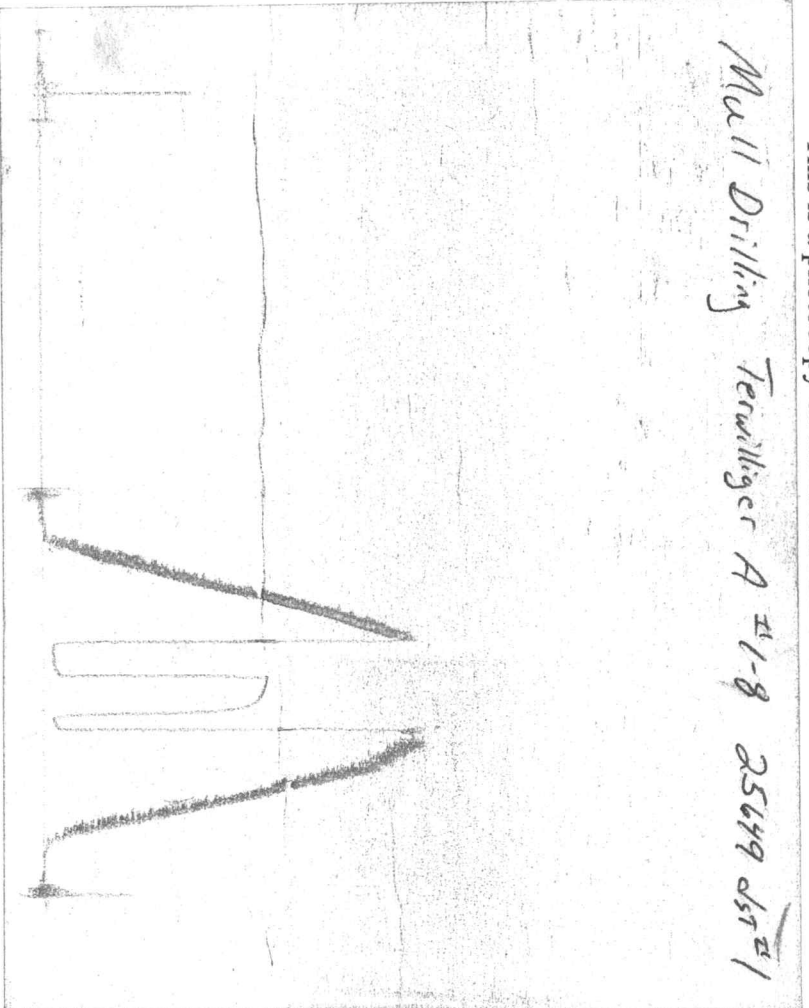
Our Representative Chuck Smith

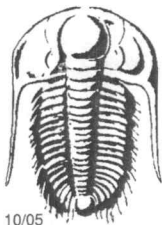
Final Flow 60
 Final Shut-In 120
 T-On Location 11:11am
 T-Started 11:56am
 T-Open 14:05pm
 T-Pulled 17:46pm
 T-Out 19:29pm
 Ruined Packer _____
 Mileage 71 RT 88²⁵
 Sub Total: 1288.75
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

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

Mull Drilling Terwilliger A #1-8 25649 dist





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25650

10/05

Test Ticket

Well Name & No.	Terwilliger A #1-8		Test No.	2	Date	12-9-06
Company	Mull Drilling Co.		Zone Tested	Lansing "H"		
Address	POB 2758 Wichita, KS 67201-2758		Elevation	2783	KB	2773 GL
Co. Rep / Geo.	Kevin Kessler		Rig	Duke #4		
Location: Sec.	8	Twp.	17 1/2	Rge.	28w	Co. Lane State KS
Comment:						Release date / time:

Interval Tested	4140 to 4180	Initial Str Wt./Lbs.	51,000	Unseated Str Wt./Lbs.	51,000
Anchor Length	40	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	70,000
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	4180	Wt. Pipe Run	0	Drill Collar Run	0
Mud Wt.	9.0	LCM	1	Vis.	54
		WL	6.4	Drill Pipe Size	4 1/2 XH
				Ft. Run	4131

Blow Description IF: Weak surface blow.

ISI: No return.

FF: No blow

FSI: No return.

Recovery - Total Feet	3	GIP		Ft. in DC	0	Ft. in DP	3
Rec.	3	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	105	*F Gravity	—	*API D @	—	*F Corrected Gravity	— *API
RW	— @	*F	—	Chlorides	— ppm	Recovery	— Chlorides 2,700 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2,020	PSI	Recorder No.	8017	Test X	1,200
(B) First Initial Flow Pressure			16	PSI	(depth)	4143	Jars	
(C) First Final Flow Pressure			16	PSI	Recorder No.	13309	Safety Jt. X	N/C
(D) Initial Shut-In Pressure			73	PSI	(depth)	4175	Circ Sub	
(E) Second Initial Flow Pressure			15	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			17	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			182	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			1,978	PSI	Initial Shut-In	30	Shale Packer	

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 J. Kessler

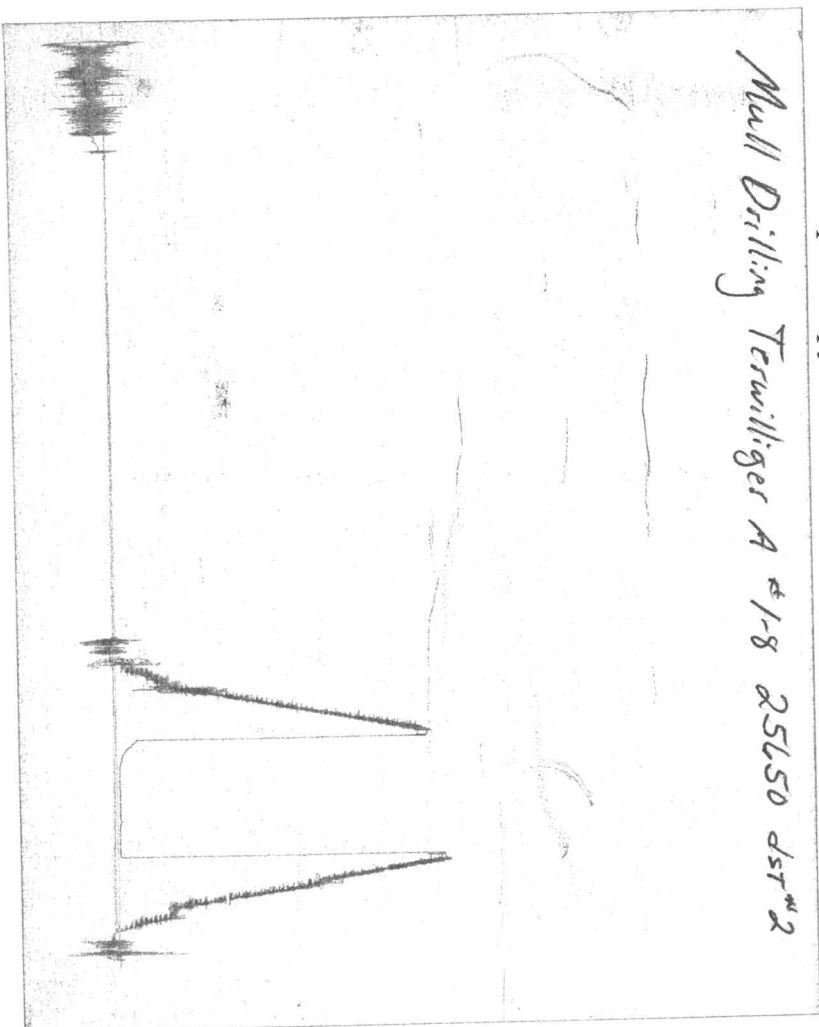
Our Representative Chuck Smith

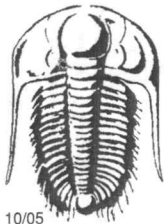
Final Flow	30	
Final Shut-In	60	
T-On Location	12:01pm	
T-Started	13:06pm	
T-Open	14:36pm	
T-Pulled	16:48pm	
T-Out	18:17pm	
Ruined Packer		
Mileage	71 RT	88 ⁷⁵
Sub Total:		
Std. By		
Acc. Chg:		\$1288.75
Other:		
Total:		

CHART PAGE

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

Mull Drilling Terwilliger A #1-8 25650 dstr^m 2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26576

Test Ticket

Well Name & No. Terwilliger A[#]1-8 Test No. 3 Date 12:10-06
 Company Mull Drilling Co. Zone Tested Lansing I-J
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2783 KB 2773 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 8 Twp. 17S Rge. 28W Co. Lane State KS
 Comment: _____ Release date / time: _____

Interval Tested 4175 to 4235 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 60 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 4171 Tool Weight 1,500
 Bottom Packer Depth 4175 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4235 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.0 LCM 1 Vis. 54 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 4,163

Blow Description IF: Weak surface blow.

ISI: No return.

FF: No blow.

FSI: No return

Recovery - Total Feet 5 GIP 0 Ft. in DC 0 Ft. in DP 5
 Rec. 5 Feet of Mud w/ spots 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 106 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,700 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2,018	PSI	Recorder No.	8017	Test	1,200-
(B) First Initial Flow Pressure			14	PSI	(depth)	4,178	Jars	
(C) First Final Flow Pressure			17	PSI	Recorder No.	13309	Safety Jt. <u>X</u>	<u>NIC</u>
(D) Initial Shut-In Pressure			704	PSI	(depth)	4,230	Circ Sub	
(E) Second Initial Flow Pressure			17	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			19	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			406	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			1,987	PSI	Initial Shut-In	30	Shale Packer	

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

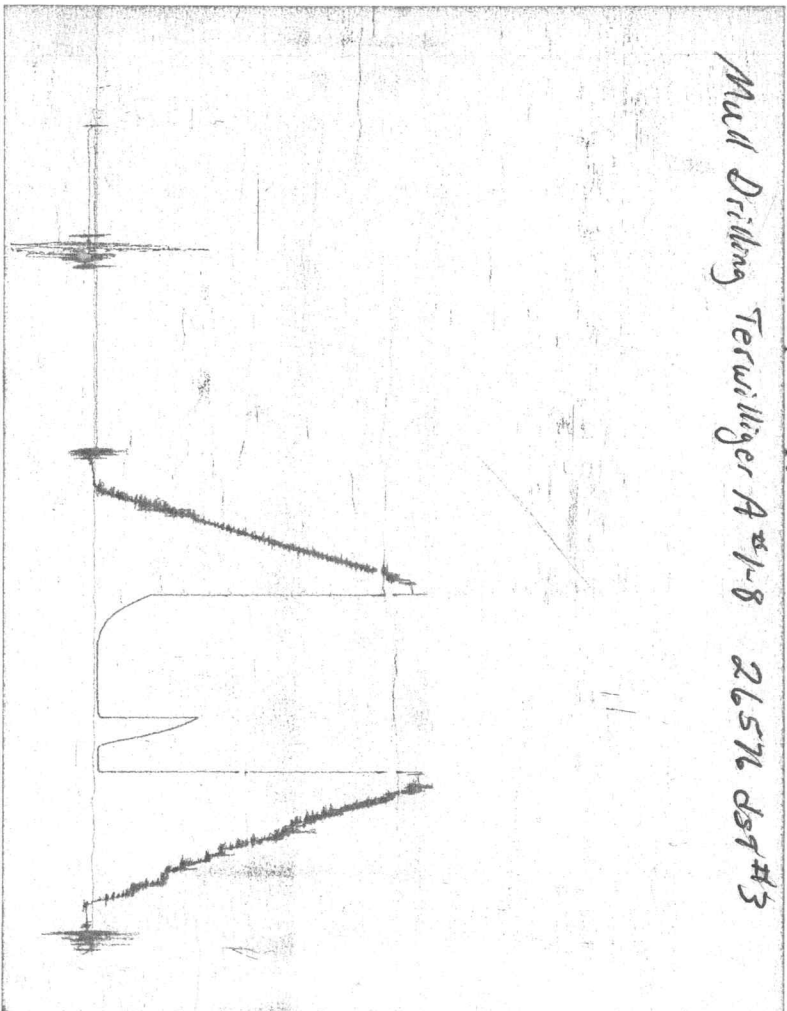
Our Representative Chuck Smith

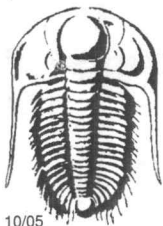
Final Flow 30
 Final Shut-In 60
 T-On Location 4:20 am
 T-Started 4:43
 T-Open 6:25
 T-Pulled 8:37
 T-Out 10:28 am
 Ruined Packer _____
 Mileage 71 88⁷⁵
 Sub Total: _____
 Std. By _____
 Acc. Chg: _____
 Other: \$1288.75
 Total: _____

CHART PAGE

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

Mud Drilling Terwilliger A²1-8 26576 dsr #3





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26577

Test Ticket

Well Name & No. Teswilliger A #1-8 Test No. 4 Date 12-10-06
 Company Mull Drilling Co. Zone Tested Lansing "K"
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2783 KB 2773 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 8 Twp. 17s Rge. 28w Co. Lane State KS
 Comment: _____ Release date / time: _____

Interval Tested 4235 to 4275 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 51,000
 Anchor Length 40 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4231 Tool Weight 1,500
 Bottom Packer Depth 4235 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4275 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.0 LCM tr Vis. 53 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 4226

Blow Description IF: Surface blow built to 3 3/4".

ISI: No return.

FF: Surface blow built to 10".

FSI: No return.

Recovery - Total Feet 155 GIP 0 Ft. in DC 0 Ft. in DP 155
 Rec. 31 Feet of SOMCW %gas 3 %oil 92 %water 5 %mud
 Rec. 114 Feet of MCW %gas %oil 90 %water 10 %mud
 Rec. 10 Feet of M %gas %oil %water 100 %mud
 Rec. 1 Feet of FO %gas 100 %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 BHT 119 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW .483 @ 33.5 °F Chlorides 31000 ppm Recovery 31000 Chlorides 2,200 ppm System

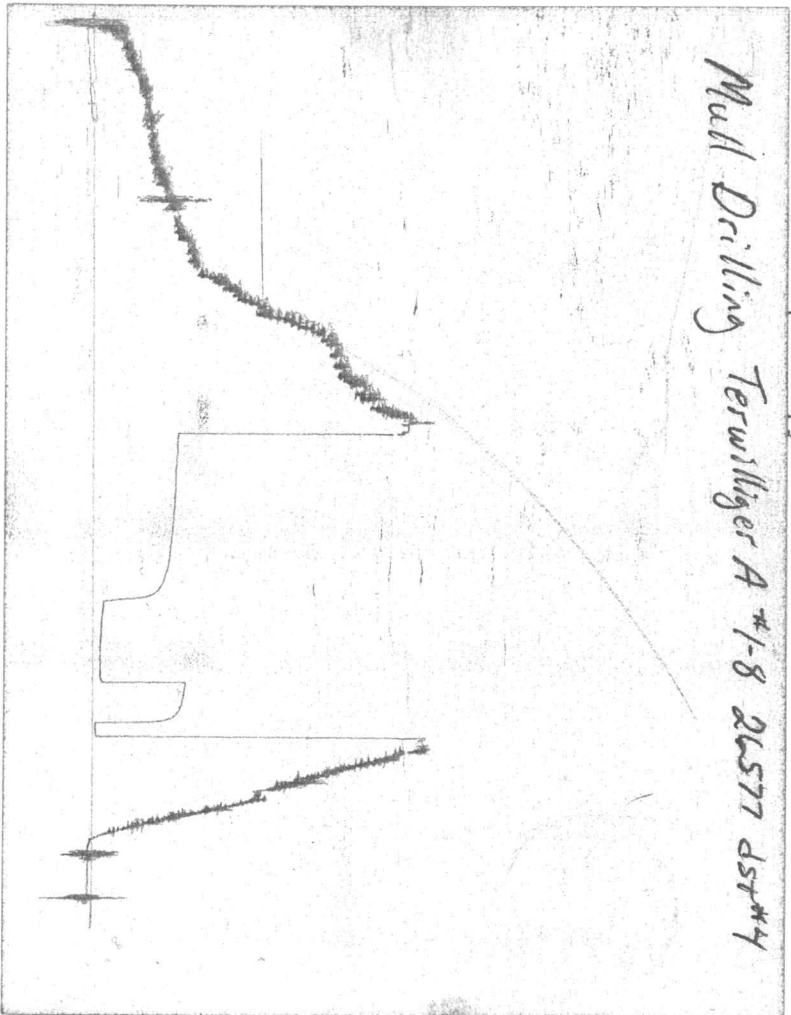
(A) Initial Hydrostatic Mud	AK-1	Alpine	2,055	PSI	Recorder No.	8017	Test X	1,200 ⁰⁰
(B) First Initial Flow Pressure			17	PSI	(depth)	4238	Jars	
(C) First Final Flow Pressure			33	PSI	Recorder No.	13309	Safety Jt. \	
(D) Initial Shut-In Pressure			624	PSI	(depth)	4270	Circ Sub X	N/C
(E) Second Initial Flow Pressure			35	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			98	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			568	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			1,994	PSI	Initial Shut-In	30	Shale Packer	
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.					Final Flow	60	Ruined Packer	
					Final Shut-In	120	Mileage	71 88 ⁷⁵
					T-On Location	18:09	Sub Total:	
					T-Started	18:49	Std. By	
					T-Open	20:43	Acc. Chg:	
					T-Pulled	00:30	Other:	\$1288.75
					T-Out	02:46	Total:	

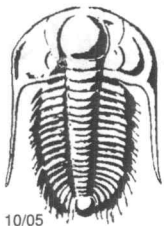
Approved By Kevin Kessler
 Our Representative Chuck Smith

CHART PAGE

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

Mud Drilling Terwilliger A #1-8 26577 dstr#4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26579

Test Ticket

Well Name & No. Terwilliger A #1-8 Test No. 5 Date 12-11-06
 Company Mull Drilling Co. Zone Tested Marmaton
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2783 KB 2773 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 8 Twp. 17E Rge. 28W Co. Lane State KS
 Comment: _____ Release date / time: _____

Interval Tested 4300 to 4400 Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length 100 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000
 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 4400 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.1 LCM 1 Vis. 53 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4289

Blow Description IF: Surface blow built to 11"

ISI: No return.

FF: 2" blow built to B.O.B. @ 8 min.

FSI: No return.

Recovery - Total Feet 135 GIP 500 Ft. in DC 0 Ft. in DP 135
 Rec. 135 Feet of GWOCM 15 %gas 35 %oil SE %water 45 %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 117 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,400 ppm System

AK-1 Alpine
 (A) Initial Hydrostatic Mud 2,133 PSI Recorder No. 8017 Test X 1,200
 (B) First Initial Flow Pressure 20 PSI (depth) 4303 Jars _____
 (C) First Final Flow Pressure 33 PSI Recorder No. 13309 Safety Jt. _____
 (D) Initial Shut-In Pressure 783 PSI (depth) 4,395 Circ Sub X N/C
 (E) Second Initial Flow Pressure 37 PSI Recorder No. _____ Sampler _____
 (F) Second Final Flow Pressure 77 PSI (depth) _____ Straddle _____
 (G) Final Shut-In Pressure 828 PSI Initial Opening 10 Ext. Packer _____
 (Q) Final Hydrostatic Mud 2,073 PSI Initial Shut-In 30 Shale Packer _____
 Final Flow 60 Ruined Packer _____
 Final Shut-In 120 Mileage 71 88²⁵

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Approved By Kevin Kessler

Our Representative Chuck Smith

T-On Location

T-Started 18:51
 T-Open 20:50
 T-Pulled 00:31
 T-Out 2:52am

Sub Total: _____

Std. By _____

Acc. Chg: \$1288.75

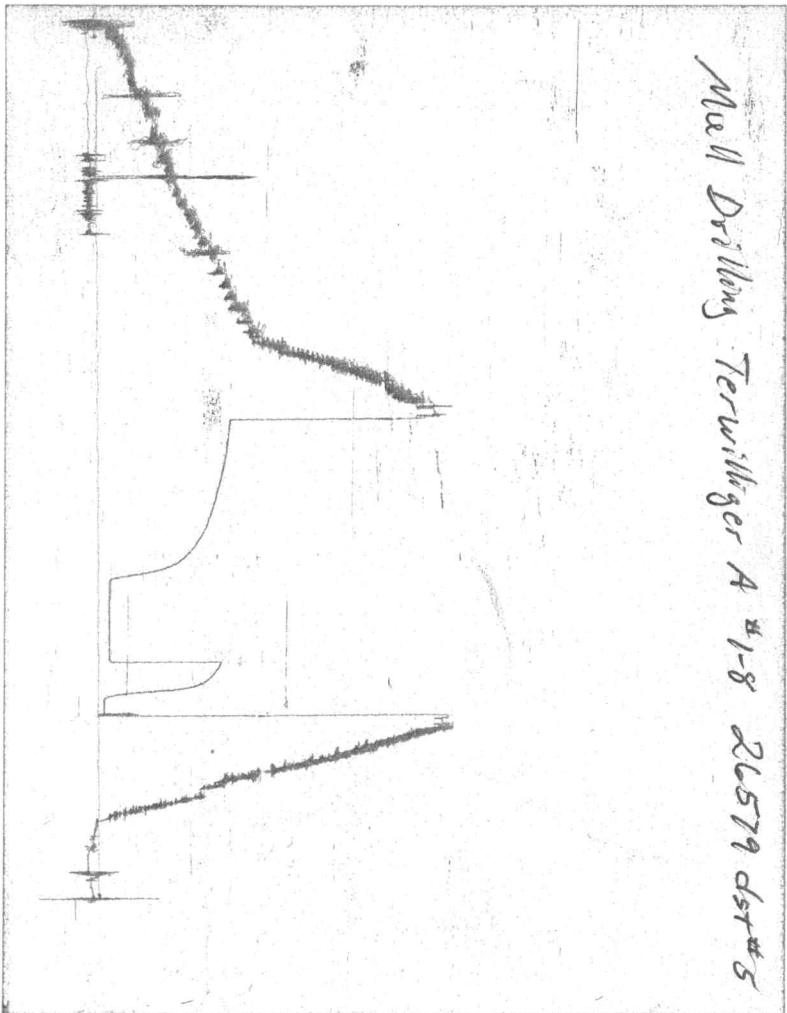
Other: _____

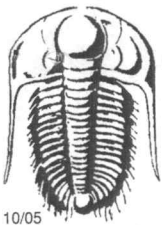
Total: _____

CHART PAGE

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

Well Drilling Terwilliger A #1-8 26579 dst #5





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26580

Test Ticket

Well Name & No. Terwilliger A #1-8 Test No. 6 Date 12-12-06
 Company Mull Drilling Co. Zone Tested Johnson
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2783 KB 2773 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 8 Twp. 17S Rge. 28W Co. Lane State KS
 Comment: _____ Release date / time: _____

Interval Tested 4490 TO 4560 Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 58,000
 Anchor Length 70 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4486 Tool Weight 1,500
 Bottom Packer Depth 4490 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 LCM Trace Vis. 52 WL 8.5 Drill Pipe Size 4 1/2 XH Ft. Run 4,476
 Blow Description IF: Surface blow built to 8 1/2".

ISI: No return.

FF: 1/2" blow built to B.O.B. @ 12 min.

FSI: Return to 5".

Recovery - Total Feet 335 GIP 400 Ft. in DC 0 Ft. in DP 335
 Rec. 76 Feet of GO 20 %gas 80 %oil %water %mud
 Rec. 76 Feet of GOCM 10 %gas 40 %oil %water 50 %mud
 Rec. 122 Feet of GOCM 30 %gas 30 %oil %water 40 %mud
 Rec. 61 Feet of Gmco 25 %gas 40 %oil %water 35 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 121 °F Gravity 34 °API D @ 30 °F Corrected Gravity 37 °API
 RW - @ - °F Chlorides - ppm Recovery - Chlorides 2,800 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2,185	PSI	Recorder No.	8017	Test X	1,200 ⁰⁰
(B) First Initial Flow Pressure			20	PSI	(depth)	4,493	Jars	
(C) First Final Flow Pressure			49	PSI	Recorder No.	13309	Safety Jt.	
(D) Initial Shut-In Pressure			1,136	PSI	(depth)	4,555	Circ Sub	X N/C
(E) Second Initial Flow Pressure			50	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			154	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1,083	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2,113	PSI	Initial Shut-In	30	Shale Packer	

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Approved By Kevin Kessler

Our Representative Chuck Smith

T-On Location

T-Started 23:15 pm
 T-Open 23:39 pm
 T-Pulled 1:31 am
 T-Out 5:12 am
7:45 am

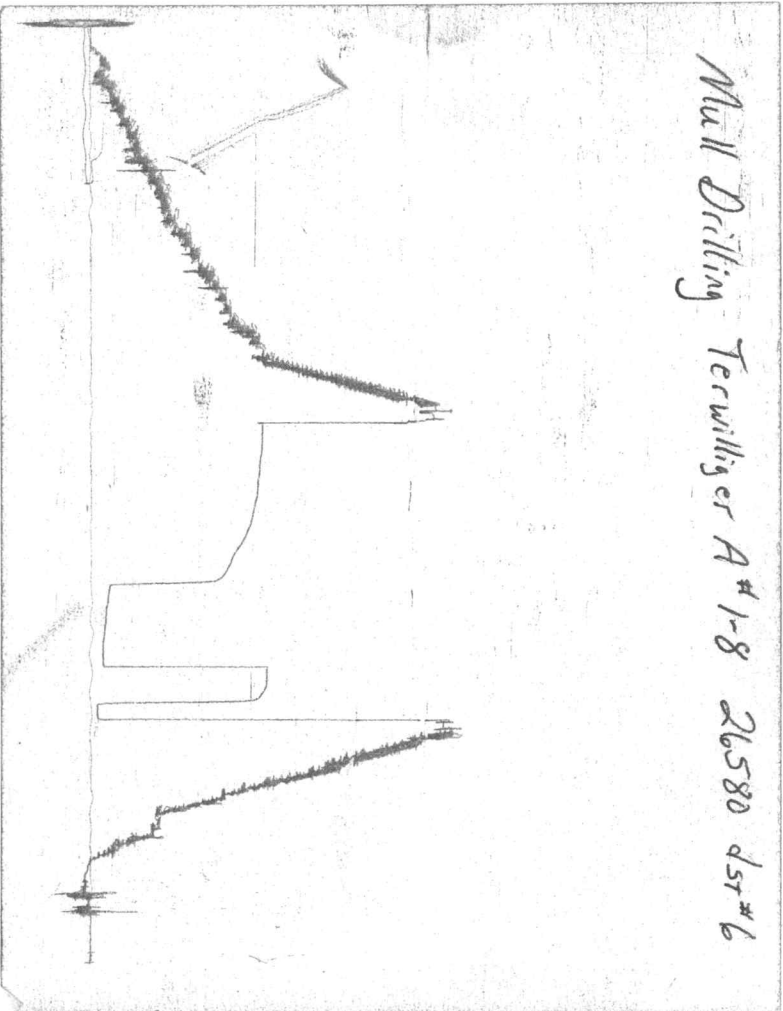
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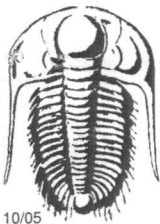
Std. By 8825
 Acc. Chg: \$1488.75
 Other: _____
 Total: _____

CHART PAGE

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

Mull Drilling Terwilliger A#1-8 26580 d5r#6





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26581

Test Ticket

Well Name & No. Terwilliger A #1-8 Test No. 7 Date 12-13-06
 Company Mull Drilling Co. Zone Tested Cherokee Sand
 Address POB 2758 Wichita, KS 67201-2758 Elevation 2783 KB 2773 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 8 Twp. 17s Rge. 28w Co. Lane State KS
 Comment: _____ Release date / time: _____

Interval Tested 4555 to 4570 Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 53,000
 Anchor Length 15 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 56,000
 Top Packer Depth 4551 Tool Weight 1,500
 Bottom Packer Depth 4555 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4570 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.0 LCM 541 Vis. 54 WL 6.4 Drill Pipe Size 4 1/2 X 4 Ft. Run 4,543

Blow Description IF: Weak surface blow built to 1/4".

ISI: Return died @ 21 min.

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/ slum 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 118 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2900 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2,237	PSI	Recorder No.	8017	Test	X	1,200 ⁰⁰
(B) First Initial Flow Pressure			17	PSI	(depth)	4,559	Jars	X	250 ⁰⁰
(C) First Final Flow Pressure			18	PSI	Recorder No.	13309	Safety Jt.		
(D) Initial Shut-In Pressure			1,154	PSI	(depth)	4,565	Circ Sub	X	NK
(E) Second Initial Flow Pressure			19	PSI	Recorder No.		Sampler		
(F) Second Final Flow Pressure			19	PSI	(depth)		Straddle		
(G) Final Shut-In Pressure			1,062	PSI	Initial Opening	10	Ext. Packer		
(Q) Final Hydrostatic Mud			2,167	PSI	Initial Shut-In	30	Shale Packer		
					Final Flow	30	Ruined Packer		
					Final Shut-In	60	Mileage	71	88 ⁷⁵

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

T-On Location

T-Started 14:12pm
 T-Open 15:13
 T-Pulled 18:11
 T-Out 20:22
22:27

Sub Total:

Std. By 15:28.75
 Acc. Chg: 15
 Other: 15
 Total: 30.75

CHART PAGE

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

Mull Drilling Terwilliger A #1-8 26581 057#7

