

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.08.30 @ 02:58:14

End Date: 2006.08.30 @ 10:25:38

Job Ticket #: 25666 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

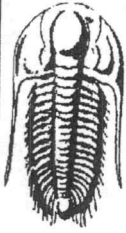
Curtis #1-31

31 15 26 Gove KS

DST # 1

Toronto

2006.08.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25666

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.08.30 @ 02:58:14

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:40:39

Time Test Ended: 10:25:38

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **3775.00 ft (KB) To 3815.00 ft (KB) (TVD)**

Total Depth: 3815.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2563.00 ft (KB)

2554.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 77.12 psig @ 3776.00 ft (KB)

Start Date: 2006.08.30

End Date:

2006.08.30

Capacity: 7000.00 psig

Last Calib.: 2006.08.30

Start Time: 02:58:14

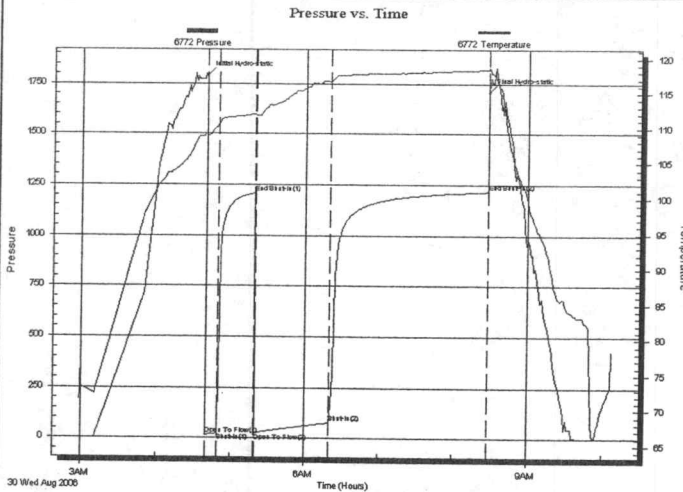
End Time:

10:08:38

Time On Btm: 2006.08.30 @ 04:40:24

Time Off Btm: 2006.08.30 @ 08:28:23

TEST COMMENT: 1/4 " in built to 2 "
No return
Surface blow in 3 min built to 6 1/2 "
No return



PRESSURE SUMMARY

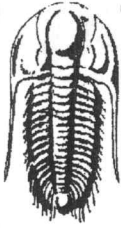
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.73	109.28	Initial Hydro-static
1	15.93	108.57	Open To Flow (1)
10	24.38	110.65	Shut-In (1)
39	1207.50	112.06	End Shut-In (1)
40	27.07	111.82	Open To Flow (2)
100	77.12	116.73	Shut-In (2)
228	1214.63	118.41	End Shut-In (2)
228	1708.14	118.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Free Oil	0.21
63.00	SOCWM 47%W 50%M	0.88
62.00	MCW w /trace of Oil 20%M 80%W	0.87

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25666

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.08.30 @ 02:58:14

Tool Information

Drill Pipe:	Length: 3776.00 ft	Diameter: 3.80 inches	Volume: 52.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3775.00 ft			Final 38000.00 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
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Stubb	1.00			3756.00	
Shut In Tool	5.00			3761.00	
Hydraulic tool	5.00			3766.00	
Packer	5.00			3771.00	20.00 Bottom Of Top Packer
Packer	4.00			3775.00	
Stubb	1.00			3776.00	
Recorder	0.00	6772	Inside	3776.00	
Perforations	3.00			3779.00	
Change Over Sub	1.00			3780.00	
Drill Pipe	29.00			3809.00	
Change Over Sub	1.00			3810.00	
Recorder	0.00	7437	Outside	3810.00	
Bullnose	5.00			3815.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25666

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.08.30 @ 02:58:14

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:

70000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.51 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Free Oil	0.210
63.00	SOCWM 47%W 50%M	0.884
62.00	MCW w/trace of Oil 20%M 80%W	0.870

Total Length:

140.00 ft

Total Volume:

1.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .110 @ 70*f = 70000

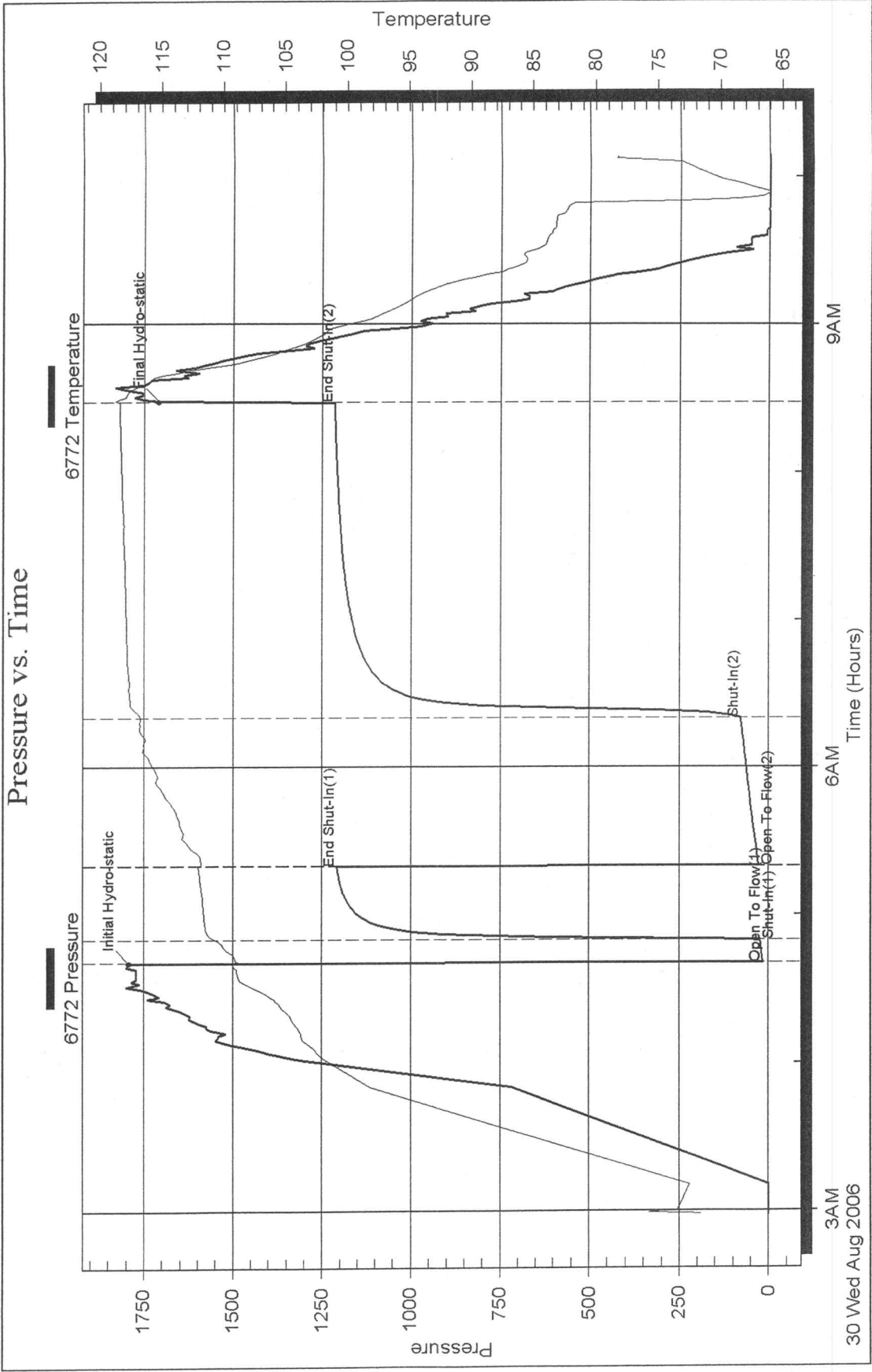
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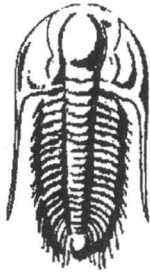
Inside

Mull Drilling Co

31 15 26 Gove KS

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.08.30 @ 22:27:24

End Date: 2006.08.31 @ 06:24:33

Job Ticket #: 25667 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

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25667

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.08.30 @ 22:27:24

GENERAL INFORMATION:

Formation: **Lansing E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:06:49

Time Test Ended: 06:24:33

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **3885.00 ft (KB) To 3920.00 ft (KB) (TVD)**

Reference Elevations: 2563.00 ft (KB)

Total Depth: 3920.00 ft (KB) (TVD)

2554.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 372.77 psig @ 3886.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.08.30

End Date:

2006.08.31

Last Calib.: 2006.08.31

Start Time: 22:27:24

End Time:

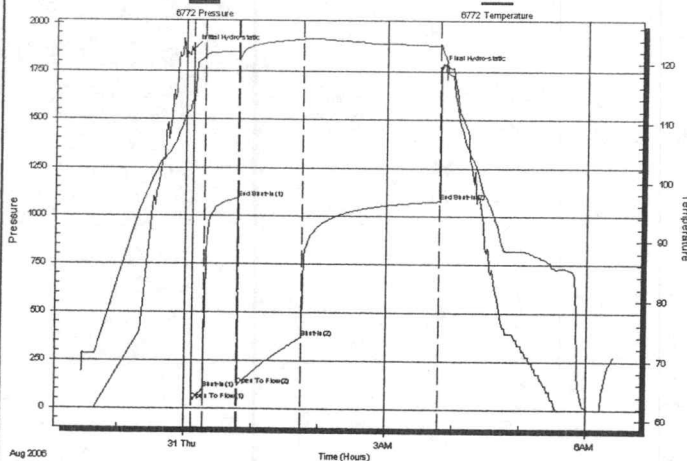
06:24:33

Time On Btm: 2006.08.31 @ 00:06:34

Time Off Btm: 2006.08.31 @ 03:48:18

TEST COMMENT: IF: 1/4 blow BOB in 3 min.
IS: No return.
FF: 1/4 blow BOB in 5 min.
FS: Surface blow BOB in 55 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1863.92	113.80	Initial Hydro-static
1	43.32	113.25	Open To Flow (1)
10	102.36	121.14	Shut-In(1)
40	1087.86	121.96	End Shut-In(1)
41	121.63	120.93	Open To Flow (2)
98	372.77	124.14	Shut-In(2)
221	1075.92	123.17	End Shut-In(2)
222	1766.19	123.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MCW 90%W 10%M	2.61
124.00	OCMW 5%O 65%W 30%M	1.74
124.00	MVCGO 10%G 60%O 20%W 10%M	1.74
248.00	WMCGO 20%G 60%O 10%W 10%M	3.48
174.00	MCGO 30%G 60%O 10%M	2.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25667

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.08.30 @ 22:27:24

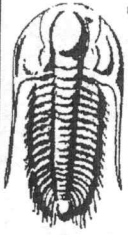
Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3885.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 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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Stubb	1.00			3866.00	
Shut In Tool	5.00			3871.00	
Hydraulic tool	5.00			3876.00	
Packer	5.00			3881.00	20.00 Bottom Of Top Packer
Packer	4.00			3885.00	
Stubb	1.00			3886.00	
Recorder	0.00	6772	Inside	3886.00	
Perforations	29.00			3915.00	
Recorder	0.00	7437	Outside	3915.00	
Bullnose	5.00			3920.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25667

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.08.30 @ 22:27:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.12 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
186.00	MCW 90%W 10%M	2.609
124.00	OCMW 5%O 65%W 30%M	1.739
124.00	MWCGO 10%G 60%O 20%W 10%M	1.739
248.00	WMCGO 20%G 60%O 10%W 10%M	3.479
174.00	MCGO 30%G 60%O 10%M	2.441

Total Length: 856.00 ft

Total Volume: 12.007 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

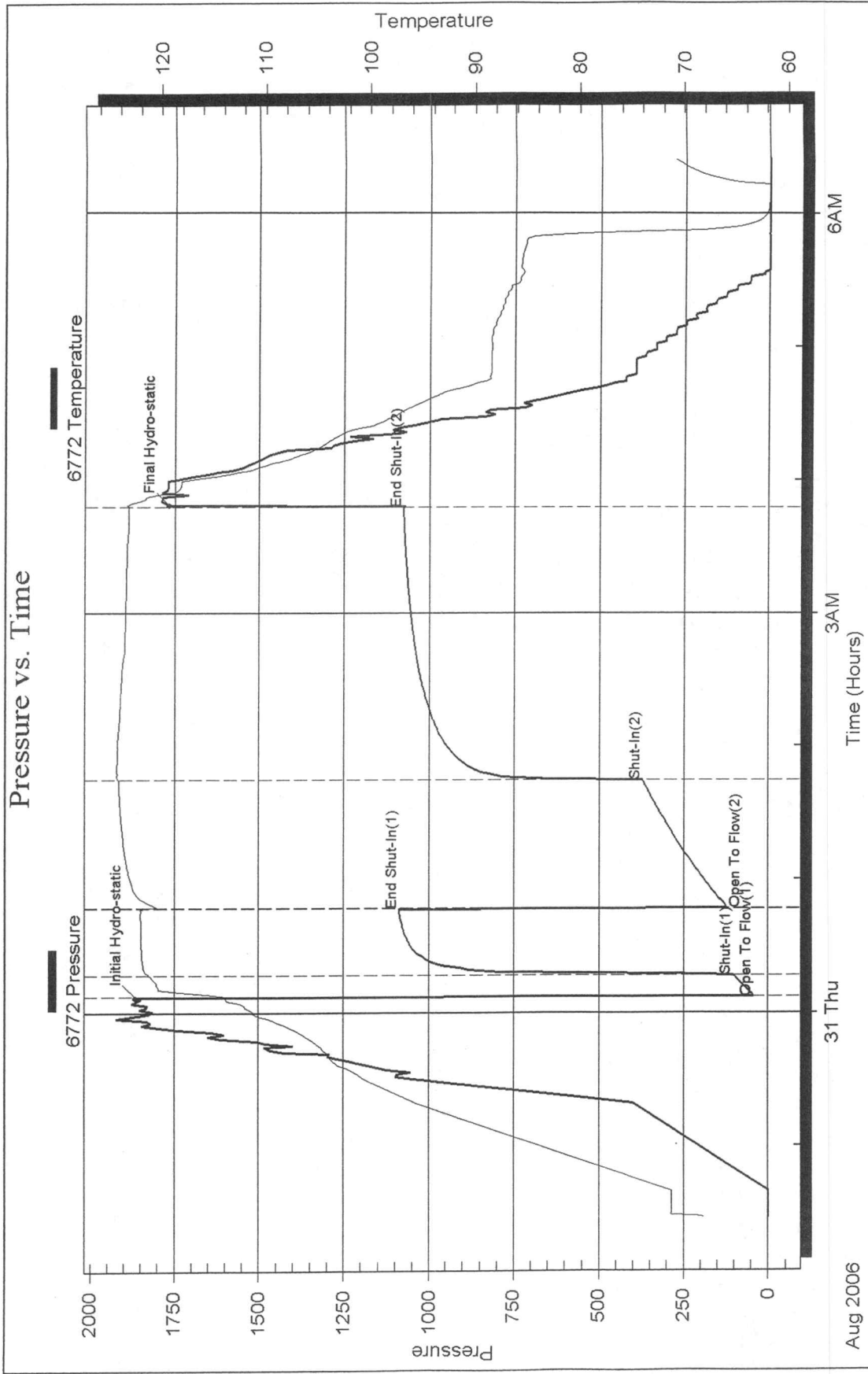
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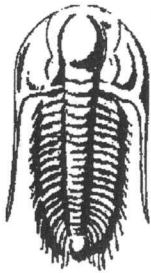
Inside

Mull Drilling Co

31 15 26 Gove KS

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.08.31 @ 18:24:22

End Date: 2006.09.01 @ 01:58:16

Job Ticket #: 25668 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

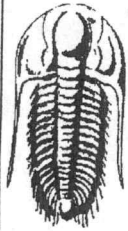
Curtis #1-31

31 15 26 Gove KS

DST # 3

Lansing H&I

2006.08.31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

Curtis #1-31
31 15 26 Gove KS
 Job Ticket: 25668 **DST#: 3**
 Test Start: 2006.08.31 @ 18:24:22

GENERAL INFORMATION:

Formation: **Lansing H&I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:15:02
 Time Test Ended: 01:58:16
 Interval: **3960.00 ft (KB) To 4040.00 ft (KB) (TVD)**
 Total Depth: 4040.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35
 Reference Elevations: 2563.00 ft (KB)
 2554.00 ft (CF)
 KB to GR/CF: 9.00 ft

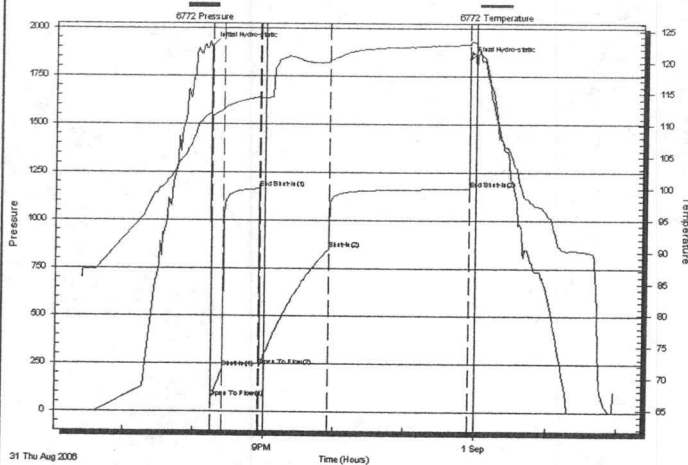
Serial #: 6772

Inside

Press@RunDepth: 847.68 psig @ 3961.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2006.08.31 End Date: 2006.09.01 Last Calib.: 2006.09.01
 Start Time: 18:24:22 End Time: 01:58:16 Time On Btm: 2006.08.31 @ 20:14:17
 Time Off Btm: 2006.08.31 @ 23:54:31

TEST COMMENT: IF: BOB in 2 min.
 IS: Surface blow never built.
 FF: BOB in 3 min.
 FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.62	111.91	Initial Hydro-static
1	69.85	111.59	Open To Flow (1)
10	225.90	112.46	Shut-In(1)
41	1161.83	114.45	End Shut-In(1)
42	238.17	114.29	Open To Flow (2)
101	847.68	120.13	Shut-In(2)
220	1163.24	122.79	End Shut-In(2)
221	1834.56	122.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1674.00	MCW 90%W 10%M	23.48
155.00	MCW trace of Oil 60%W 40%M	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25668

DST#: 3

ATTN: Kevin Kessler

Test Start: 2006.08.31 @ 18:24:22

Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.80 inches	Volume: 55.62 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3960.00 ft			Final 44000.00 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
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Stubb	1.00			3941.00	
Shut In Tool	5.00			3946.00	
Hydraulic tool	5.00			3951.00	
Packer	5.00			3956.00	20.00 Bottom Of Top Packer
Packer	4.00			3960.00	
Stubb	1.00			3961.00	
Recorder	0.00	6772	Inside	3961.00	
Perforations	9.00			3970.00	
Change Over Sub	1.00			3971.00	
Drill Pipe	63.00			4034.00	
Change Over Sub	1.00			4035.00	
Recorder	0.00	7437	Outside	4035.00	
Bullnose	5.00			4040.00	80.00 Bottom Packers & Anchor

Total Tool Length: 100.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25668

DST#: 3

ATTN: Kevin Kessler

Test Start: 2006.08.31 @ 18:24:22

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:

90000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1674.00	MCW 90%W 10%M	23.482
155.00	MCW trace of Oil 60%W 40%M	2.174

Total Length: 1829.00 ft

Total Volume: 25.656 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

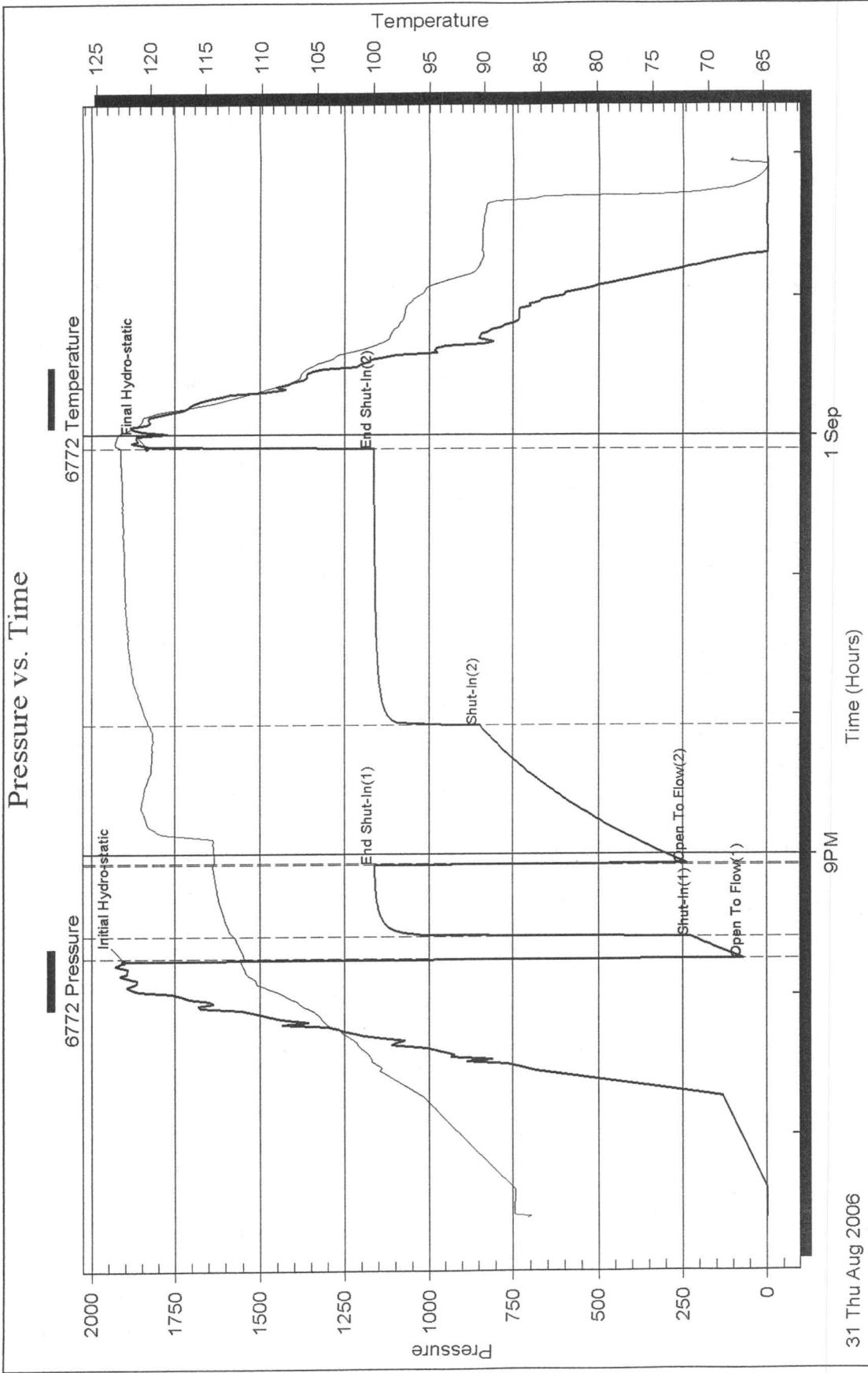
Serial #: 6772

Inside

Mull Drilling Co

31 15 26 Gove KS

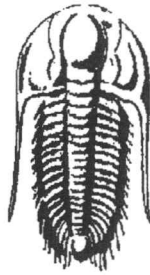
DST Test Number: 3



31 Thu Aug 2006

1 Sep

9PM



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.09.01 @ 09:23:04

End Date: 2006.09.01 @ 16:58:28

Job Ticket #: 25669 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

Curtis #1-31

31 15 26 Gove KS

DST # 4

Lansing J

2006.09.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25669

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.09.01 @ 09:23:04

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:10:29

Time Test Ended: 16:58:28

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4055.00 ft (KB) To 4070.00 ft (KB) (TVD)**

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2563.00 ft (KB)

2554.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772 Inside

Press@RunDepth: 71.96 psig @ 4056.00 ft (KB)

Start Date: 2006.09.01 End Date:

2006.09.01

Capacity: 7000.00 psig

Last Calib.: 2006.09.01

Start Time: 09:23:04 End Time:

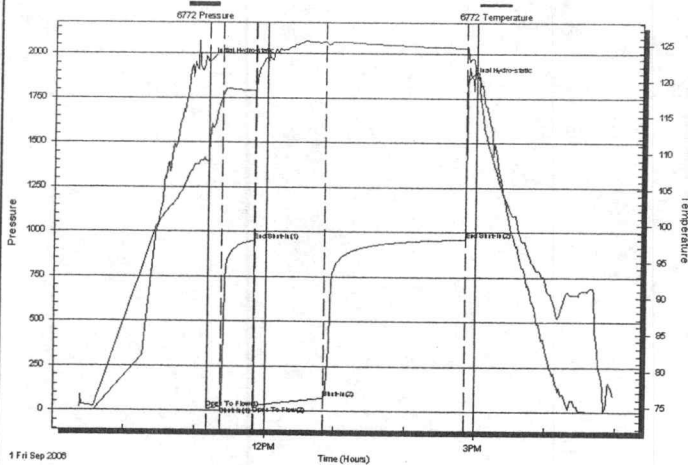
16:58:28

Time On Btm: 2006.09.01 @ 11:10:14

Time Off Btm: 2006.09.01 @ 14:52:13

TEST COMMENT: IF 1/4 blow built to 3 in 10 min.
IS No return
FF Surface blow built to 7 in 60 min.
FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.85	108.83	Initial Hydro-static
1	13.57	108.47	Open To Flow (1)
12	24.11	117.91	Shut-In(1)
40	950.98	118.66	End Shut-In(1)
41	26.90	118.62	Open To Flow (2)
101	71.96	125.42	Shut-In(2)
222	960.56	124.66	End Shut-In(2)
222	1853.48	124.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW 90%W 10%M	0.87
66.00	MCW 70%W 30%M	0.93
1.00	Free Oil 100%O	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25669

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.09.01 @ 09:23:04

Tool Information

Drill Pipe:	Length: 4061.00 ft	Diameter: 3.80 inches	Volume: 56.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 56.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	4055.00 ft			Final 37000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4036.00	
Shut In Tool	5.00			4041.00	
Hydraulic tool	5.00			4046.00	
Packer	5.00			4051.00	20.00 Bottom Of Top Packer
Packer	4.00			4055.00	
Stubb	1.00			4056.00	
Recorder	0.00	6772	Inside	4056.00	
Perforations	9.00			4065.00	
Recorder	0.00	7437	Outside	4065.00	
Bullnose	5.00			4070.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25669

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.09.01 @ 09:23:04

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: 95000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.14 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCW 90%W 10%M	0.870
66.00	MCW 70%W 30%M	0.926
1.00	Free Oil 100%O	0.014

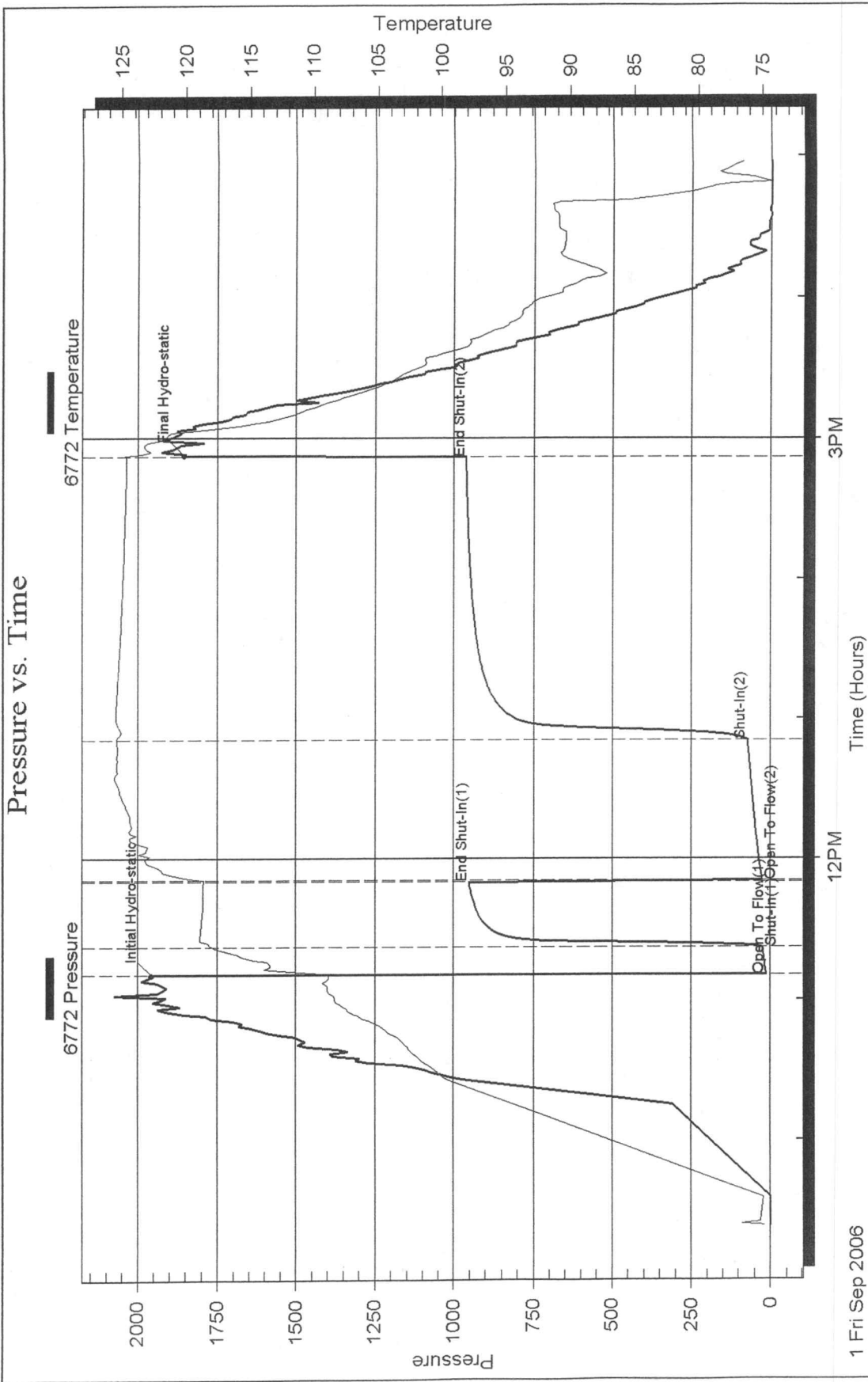
Total Length: 129.00 ft Total Volume: 1.810 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



1 Fri Sep 2006



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.09.02 @ 03:20:58

End Date: 2006.09.02 @ 10:41:37

Job Ticket #: 25670 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

Curtis #1-31

31 15 26 Gove KS

DST # 5

Lansing K-L

2006.09.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25670

DST#: 5

ATTN: Kevin Kessler

Test Start: 2006.09.02 @ 03:20:58

GENERAL INFORMATION:

Formation: **Lansing K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:08:08

Time Test Ended: 10:41:37

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4070.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Total Depth: 4130.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2563.00 ft (KB)

2554.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 46.01 psig @ 4071.00 ft (KB)

Start Date: 2006.09.02

End Date:

2006.09.02

Start Time: 03:20:58

End Time:

10:41:37

Capacity: 7000.00 psig

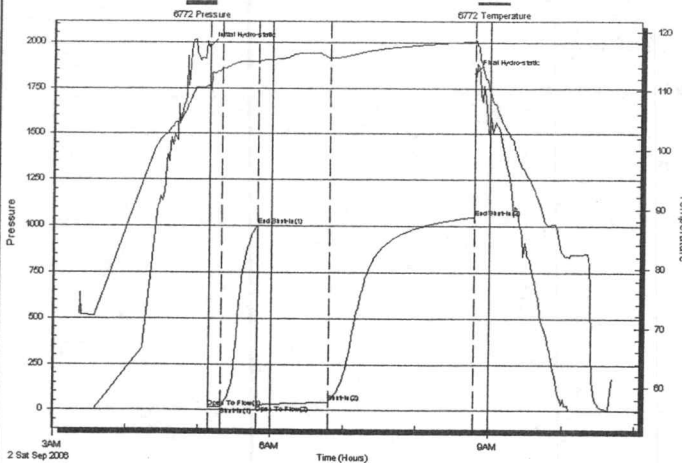
Last Calib.: 2006.09.02

Time On Btm: 2006.09.02 @ 05:07:53

Time Off Btm: 2006.09.02 @ 08:47:52

TEST COMMENT: IF 1/4 blow built to 8 in 10 min.
IS No return
FF BOB in 11 min.
FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1975.61	110.81	Initial Hydro-static
1	14.15	110.37	Open To Flow (1)
11	19.58	113.72	Shut-In (1)
40	1002.36	115.00	End Shut-In (1)
41	28.92	114.63	Open To Flow (2)
100	46.01	115.48	Shut-In (2)
220	1049.48	118.38	End Shut-In (2)
220	1829.31	118.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCOG 60%G 10%O 30%M	0.87
13.00	GOCM 10%G 10%O 80%M	0.18
2.00	Free Oil 100%O	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25670

DST#: 5

ATTN: Kevin Kessler

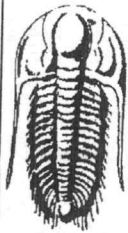
Test Start: 2006.09.02 @ 03:20:58

Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 56.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	37000.00 lb
Depth to Top Packer:	4070.00 ft			Final	38000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4051.00	
Shut In Tool	5.00			4056.00	
Hydraulic tool	5.00			4061.00	
Packer	5.00			4066.00	20.00 Bottom Of Top Packer
Packer	4.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	6772	Inside	4071.00	
Perforations	21.00			4092.00	
Change Over Sub	1.00			4093.00	
Drill Pipe	31.00			4124.00	
Change Over Sub	1.00			4125.00	
Recorder	0.00	7437	Outside	4125.00	
Bullnose	5.00			4130.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25670

DST#: 5

ATTN: Kevin Kessler

Test Start: 2006.09.02 @ 03:20:58

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: 7.93 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCGO 60%G 10%O 30%M	0.870
13.00	GOCM 10%G 10%O 80%M	0.182
2.00	Free Oil 100%O	0.028

Total Length: 77.00 ft

Total Volume: 1.080 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

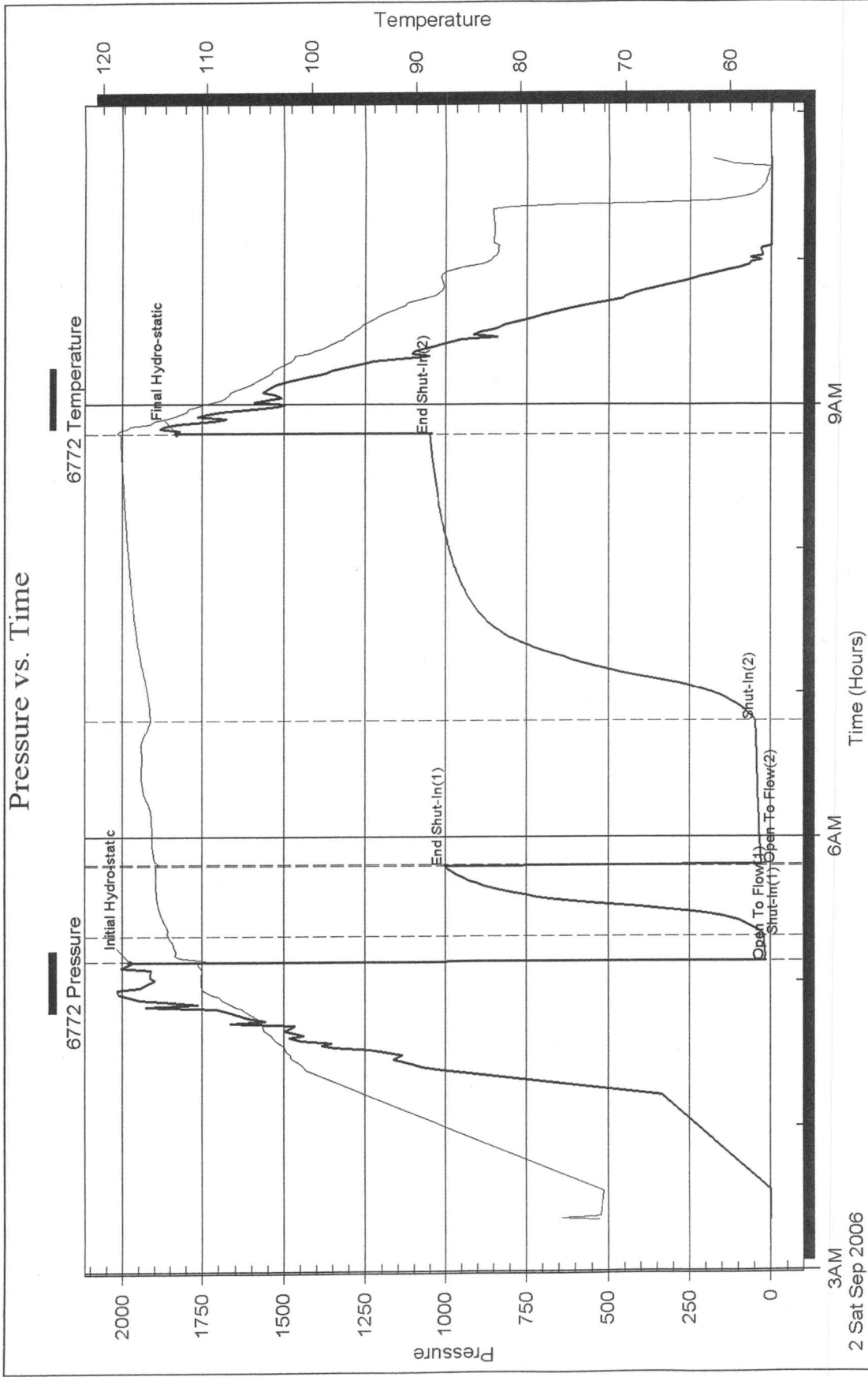
Serial #: 6772

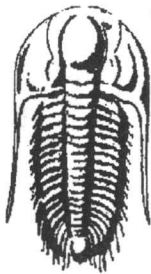
Inside

Mull Drilling Co

31 15 26 Gove KS

DST Test Number: 5





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.09.03 @ 08:38:18

End Date: 2006.09.03 @ 17:01:42

Job Ticket #: 25671 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

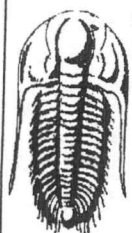
Curtis #1-31

31 15 26 Gove KS

DST # 6

Ft. Scott

2006.09.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

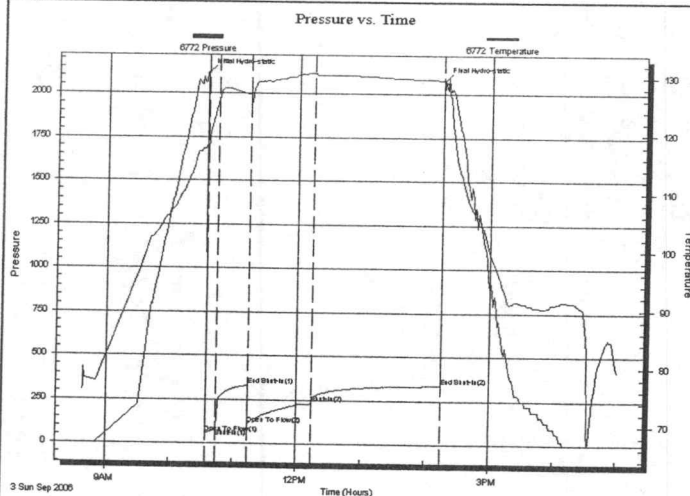
Curtis #1-31
31 15 26 Gove KS
 Job Ticket: 25671 DST#: 6
 Test Start: 2006.09.03 @ 08:38:18

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: 10:34:13 Tester: **Brandon Turley**
 Time Test Ended: 17:01:42 Unit No: **35**
 Interval: **4300.00 ft (KB) To 4360.00 ft (KB) (TVD)** Reference Elevations: **2563.00 ft (KB)**
 Total Depth: **4360.00 ft (KB) (TVD)** **2554.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **9.00 ft**

Serial #: 6772 Inside
 Press@RunDepth: **232.65 psig @ 4301.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2006.09.03** End Date: **2006.09.03** Last Calib.: **2006.09.03**
 Start Time: **08:38:18** End Time: **17:01:42** Time On Btmr: **2006.09.03 @ 10:33:58**
 Time Off Btmr: **2006.09.03 @ 14:15:12**

TEST COMMENT: IF BOB in 2 min.
 IS No return
 FF BOB in 3 min.
 FS BOB in 34 min.



PRESSURE SUMMARY

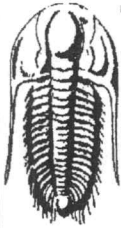
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2115.63	117.96	Initial Hydro-static
1	58.29	117.26	Open To Flow (1)
11	85.80	126.34	Shut-In(1)
40	330.22	126.92	End Shut-In(1)
41	112.52	125.86	Open To Flow (2)
100	232.65	130.70	Shut-In(2)
221	335.25	129.55	End Shut-In(2)
222	2077.31	129.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW 70%W 30%M	0.87
186.00	MVCGO 35%G 50%O 10%W 5%M	2.61
186.00	MCGO 50%G 10%O 40%M	2.61
134.00	MCGO 50%G 40%O 10%M	1.88

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25671

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.09.03 @ 08:38:18

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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 60.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	4300.00 ft			Final 40000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	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	
Recorder	0.00	6772	Inside	4301.00	
Perforations	21.00			4322.00	
Change Over Sub	1.00			4323.00	
Drill Pipe	31.00			4354.00	
Change Over Sub	1.00			4355.00	
Recorder	0.00	7437	Outside	4355.00	
Bullnose	5.00			4360.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25671

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.09.03 @ 08:38:18

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: 85000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.95 in ³	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

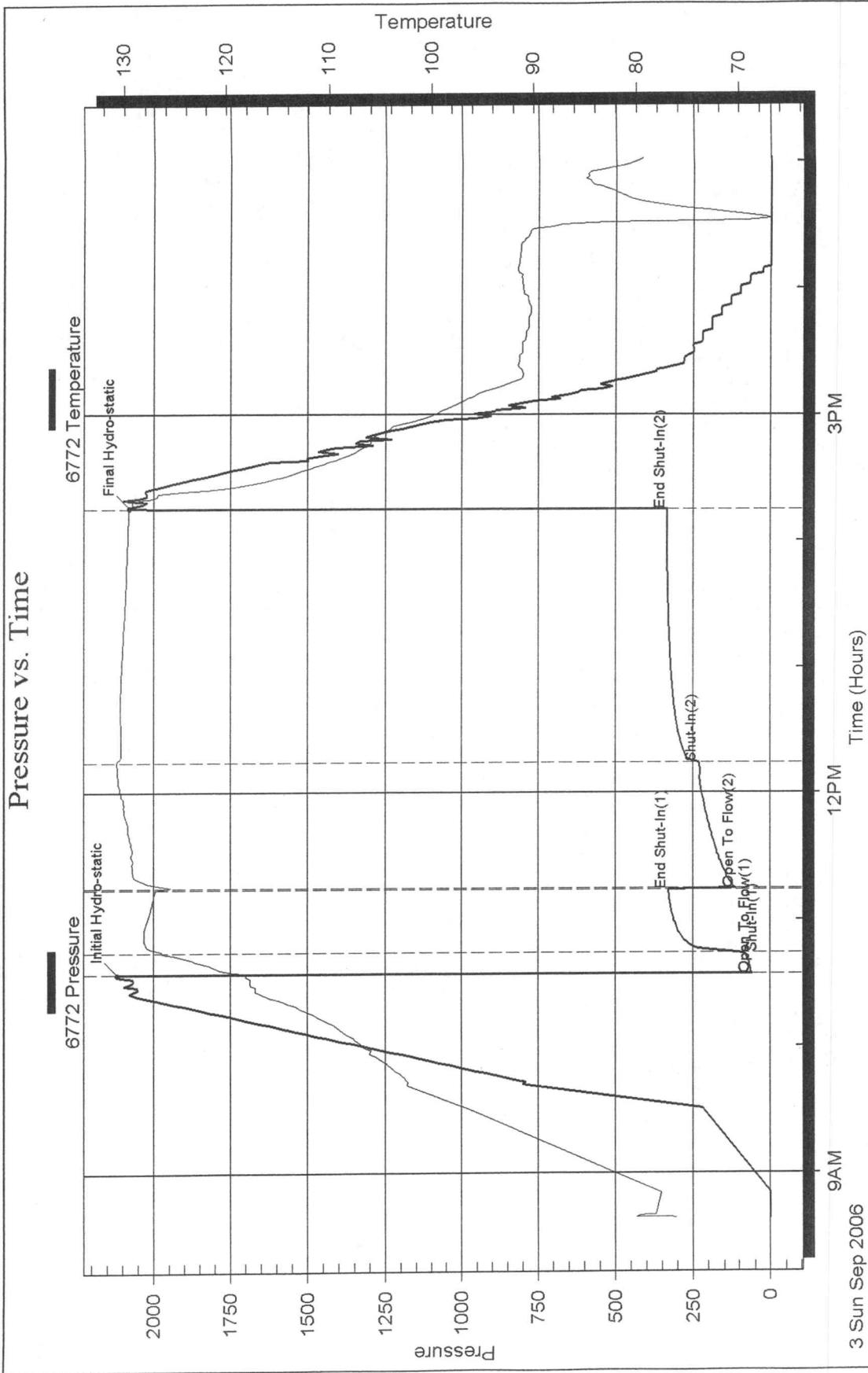
Length ft	Description	Volume bbl
62.00	MCW 70%W 30%M	0.870
186.00	MWCGO 35%G 50%O 10%W 5%M	2.609
186.00	MCGO 50%G 10%O 40%M	2.609
134.00	MCGO 50%G 40%O 10%M	1.880

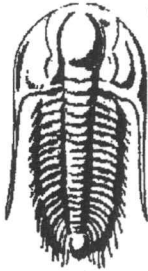
Total Length: 568.00 ft Total Volume: 7.968 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.09.04 @ 04:40:20

End Date: 2006.09.04 @ 12:39:29

Job Ticket #: 25672 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

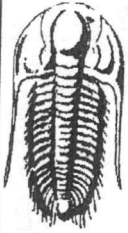
Curtis #1-31

31 15 26 Gove KS

DST # 7

Mississippi

2006.09.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

ATTN: Kevin Kessler

Job Ticket: 25672

DST#: 7

Test Start: 2006.09.04 @ 04:40:20

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:19:30

Time Test Ended: 12:39:29

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4375.00 ft (KB) To 4435.00 ft (KB) (TVD)**

Total Depth: 4435.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2563.00 ft (KB)

2554.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 144.92 psig @ 4376.00 ft (KB)

Start Date: 2006.09.04

End Date:

2006.09.04

Start Time: 04:40:20

End Time:

12:39:29

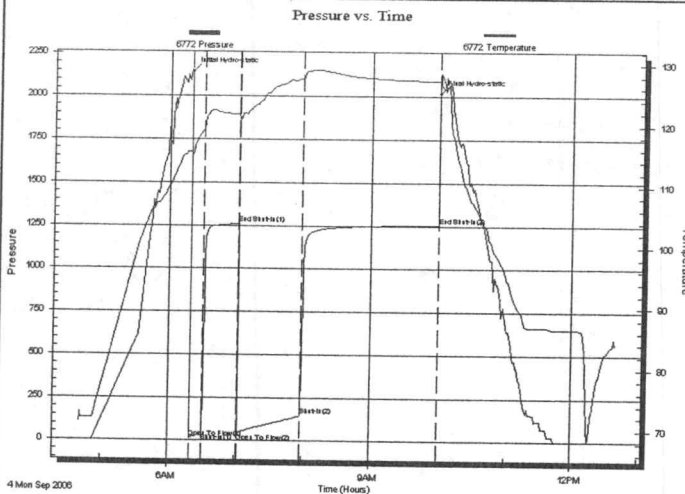
Capacity: 7000.00 psig

Last Calib.: 2006.09.04

Time On Btm: 2006.09.04 @ 06:19:15

Time Off Btm: 2006.09.04 @ 09:59:59

TEST COMMENT: IF 1/4 blow built to 6 in 10 min.
IS No return
FF BOB in 22 min.
FS No return



PRESSURE SUMMARY

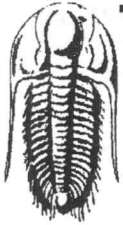
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.61	115.59	Initial Hydro-static
1	16.07	114.92	Open To Flow (1)
11	42.72	119.33	Shut-In (1)
43	1258.48	121.77	End Shut-In (1)
43	43.64	121.26	Open To Flow (2)
99	144.92	127.69	Shut-In (2)
221	1255.77	127.37	End Shut-In (2)
221	2019.53	127.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 30%G 10%O 60%M	0.87
31.00	MCGO 10%G 50%O 40%M	0.43
186.00	GO 10%G 90%O	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25672

DST#: 7

ATTN: Kevin Kessler

Test Start: 2006.09.04 @ 04:40:20

Tool Information

Drill Pipe:	Length: 4372.00 ft	Diameter: 3.80 inches	Volume: 61.33 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	4375.00 ft			Final 40000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Packer	5.00			4371.00	20.00 Bottom Of Top Packer
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Recorder	0.00	6772	Inside	4376.00	
Perforations	21.00			4397.00	
Change Over Sub	1.00			4398.00	
Drill Pipe	31.00			4429.00	
Change Over Sub	1.00			4430.00	
Recorder	0.00	7437	Outside	4430.00	
Bullnose	5.00			4435.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25672

DST#: 7

ATTN: Kevin Kessler

Test Start: 2006.09.04 @ 04:40:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GOCM 30%G 10%O 60%M	0.870
31.00	MCGO 10%G 50%O 40%M	0.435
186.00	GO 10%G 90%O	2.609

Total Length: 279.00 ft

Total Volume: 3.914 bbl

Num Fluid Samples: 0

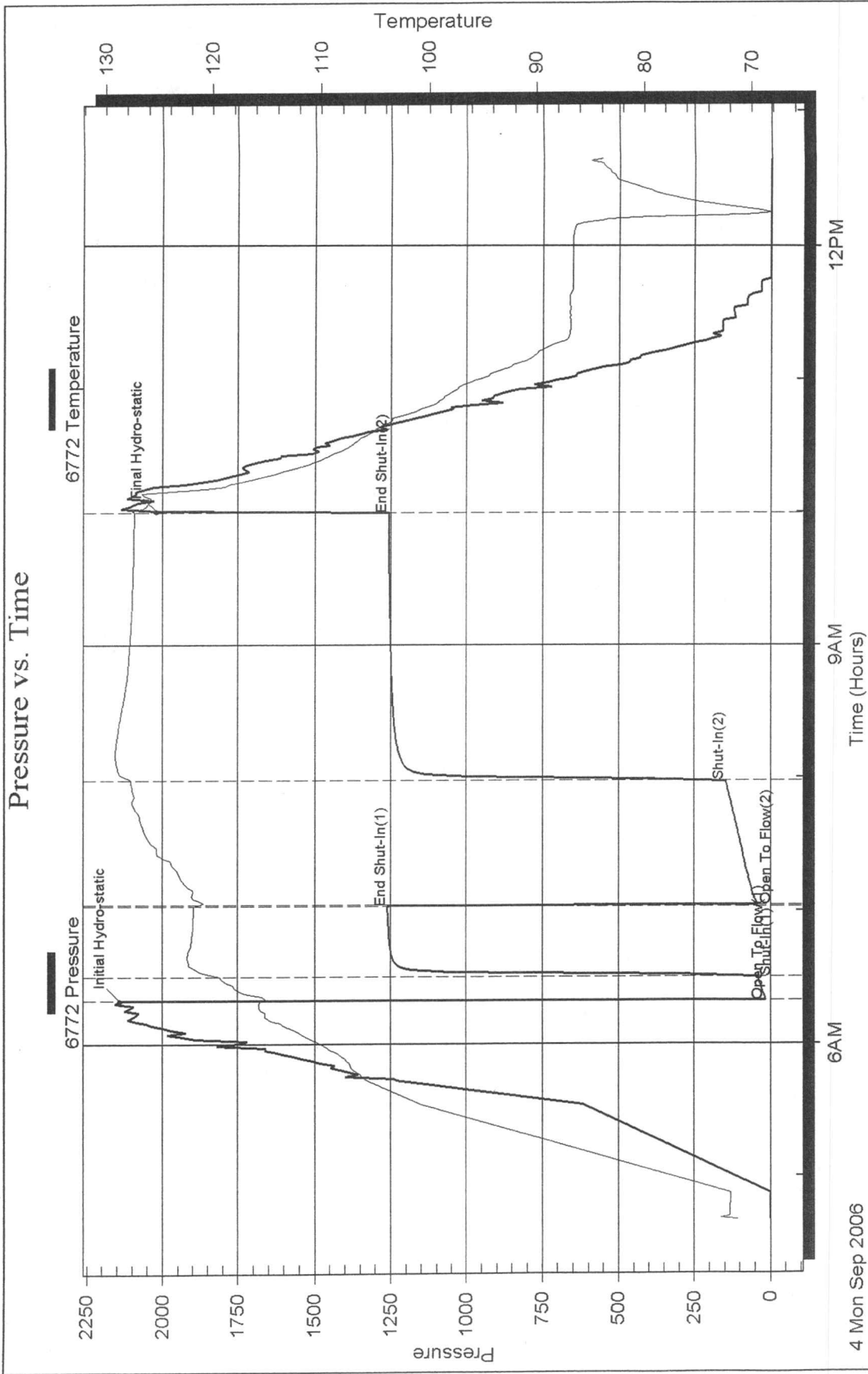
Num Gas Bombs: 0

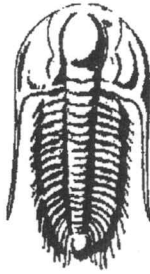
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

31 15 26 Gove KS

Curtis #1-31

Start Date: 2006.09.04 @ 19:31:04

End Date: 2006.09.05 @ 05:43:59

Job Ticket #: 25673 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Co

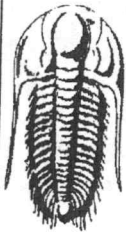
Curtis #1-31

31 15 26 Gove KS

DST # 8

Mississippi

2006.09.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Curtis #1-31
31 15 26 Gove KS
Job Ticket: 25673 **DST#: 8**
Test Start: 2006.09.04 @ 19:31:04

GENERAL INFORMATION:

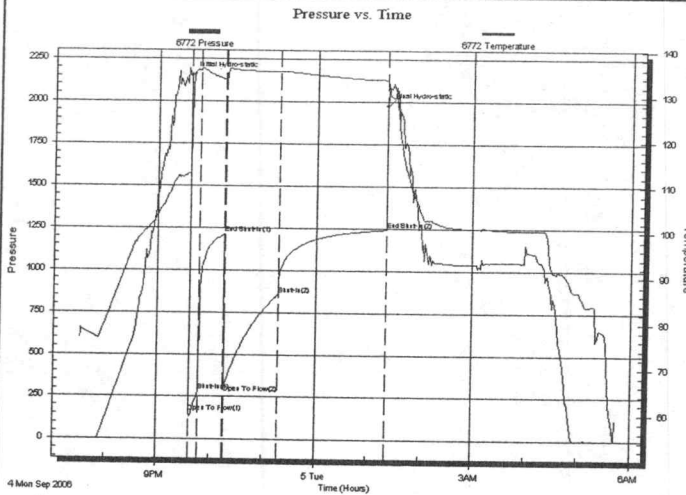
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:36:29
Time Test Ended: 05:43:59
Interval: **4435.00 ft (KB) To 4445.00 ft (KB) (TVD)**
Total Depth: 4445.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 2563.00 ft (KB)
2554.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 857.75 psig @ 4436.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2006.09.04 End Date: 2006.09.05 Last Calib.: 2006.09.05
Start Time: 19:31:04 End Time: 05:43:59 Time On Btm: 2006.09.04 @ 21:36:14
Time Off Btm: 2006.09.05 @ 01:21:13

TEST COMMENT: IF BOB in 1 min.
IS Surface blow built to 3 in 30 min.
FF BOB in 1 min.
FS No return



PRESSURE SUMMARY

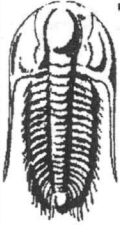
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.48	113.05	Initial Hydro-static
1	155.12	114.15	Open To Flow (1)
11	281.16	135.85	Shut-In (1)
40	1212.07	133.63	End Shut-In (1)
40	321.71	133.27	Open To Flow (2)
101	857.75	135.46	Shut-In (2)
225	1240.49	133.71	End Shut-In (2)
225	1972.81	133.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 20%G 10%O 70%M	1.74
2201.00	GO 20%G 80%O	30.87

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25673

DST#: 8

ATTN: Kevin Kessler

Test Start: 2006.09.04 @ 19:31:04

Tool Information

Drill Pipe:	Length: 4436.00 ft	Diameter: 3.80 inches	Volume: 62.23 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 62.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	4435.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	30.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4416.00		
Shut In Tool	5.00			4421.00		
Hydraulic tool	5.00			4426.00		
Packer	5.00			4431.00	20.00	Bottom Of Top Packer
Packer	4.00			4435.00		
Stubb	1.00			4436.00		
Recorder	0.00	6772	Inside	4436.00		
Perforations	4.00			4440.00		
Recorder	0.00	7437	Outside	4440.00		
Bullnose	5.00			4445.00	10.00	Bottom Packers & Anchor
Total Tool Length:	30.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

Curtis #1-31

PO Box 2758
Wichita KS 67201

31 15 26 Gove KS

Job Ticket: 25673

DST#: 8

ATTN: Kevin Kessler

Test Start: 2006.09.04 @ 19:31:04

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: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4900.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 20%G 10%O 70%M	1.739
2201.00	GO 20%G 80%O	30.874

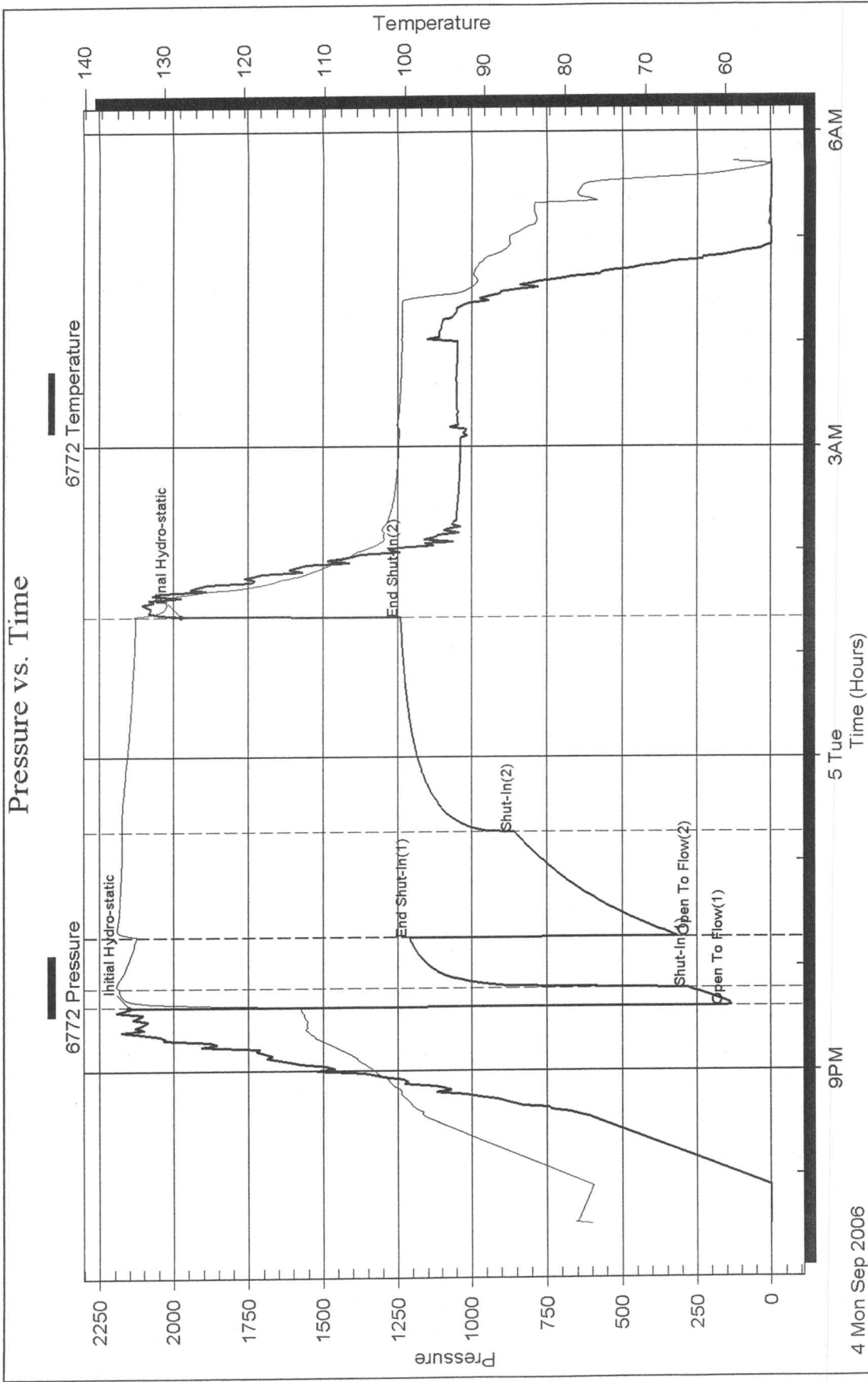
Total Length: 2325.00 ft Total Volume: 32.613 bbl

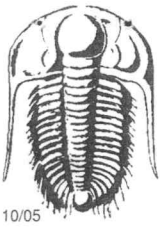
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9208

25666

Test Ticket

Well Name & No. Curtis #1-31 Test No. 1 Date 8/30/04
 Company Mull Drilling Co Zone Tested Toronto
 Address P.O. Box 2758 Wichita KS 67201 Elevation 2563 KB 2554 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 31 Twp. 15S Rge. 26W Co. Gove State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3775 3815 Initial Str Wt./Lbs. 34,000 Unseated Str Wt./Lbs. 38,000
 Anchor Length _____ 40 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth _____ 3770 Tool Weight 1500
 Bottom Packer Depth _____ 3775 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 3815 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.1 LCM 71 Vis. 47 WL 7.4 Drill Pipe Size 4 1/2" RH Ft. Run 3776'

Blow Description 1/4" built to 2"
No return
Surface blow in 3 min built to 6 1/2" in.
No return

Recovery - Total Feet 140' GIP _____ Ft. in DC _____ Ft. in DP 140'
 Rec. 15' Feet of free oil %gas _____ %oil _____ %water _____ %mud _____
 Rec. 62 Feet of SOCWM %gas 3 %oil 47 %water 50 %mud _____
 Rec. 62 Feet of mcw %gas 71 %oil 80 %water 20 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 118° °F Gravity 37 °API D @ 80° °F Corrected Gravity 30 °API
 RW .110 @ 70° °F Chlorides 70,000 ppm Recovery 70,000 Chlorides 2000 ppm System

	AK-1	Alpine	Recorder No.	Test #
(A) Initial Hydrostatic Mud	<u>1790</u>	PSI	<u>6772</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>15</u>	PSI	(depth) <u>3776'</u>	Jars _____
(C) First Final Flow Pressure	<u>24</u>	PSI	Recorder No. <u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1207</u>	PSI	(depth) <u>3810'</u>	Circ Subx <u>N/C</u>
(E) Second Initial Flow Pressure	<u>27</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>77</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1214</u>	PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1742</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By Kevin Kessler T-Started 03:00 A.M. T-Open 04:40 A.M. T-Pulled 08:20 A.M. T-Out 10:25 A.M.
 Our Representative _____ T-On Location 02:00 A.M. T-Started 03:00 A.M. T-Open 04:40 A.M. T-Pulled 08:20 A.M. T-Out 10:25 A.M.
 Sub Total: _____ Std. By 1/2 50 Acc. Chg: _____ Other: \$1290 Total: _____

CHART PAGE

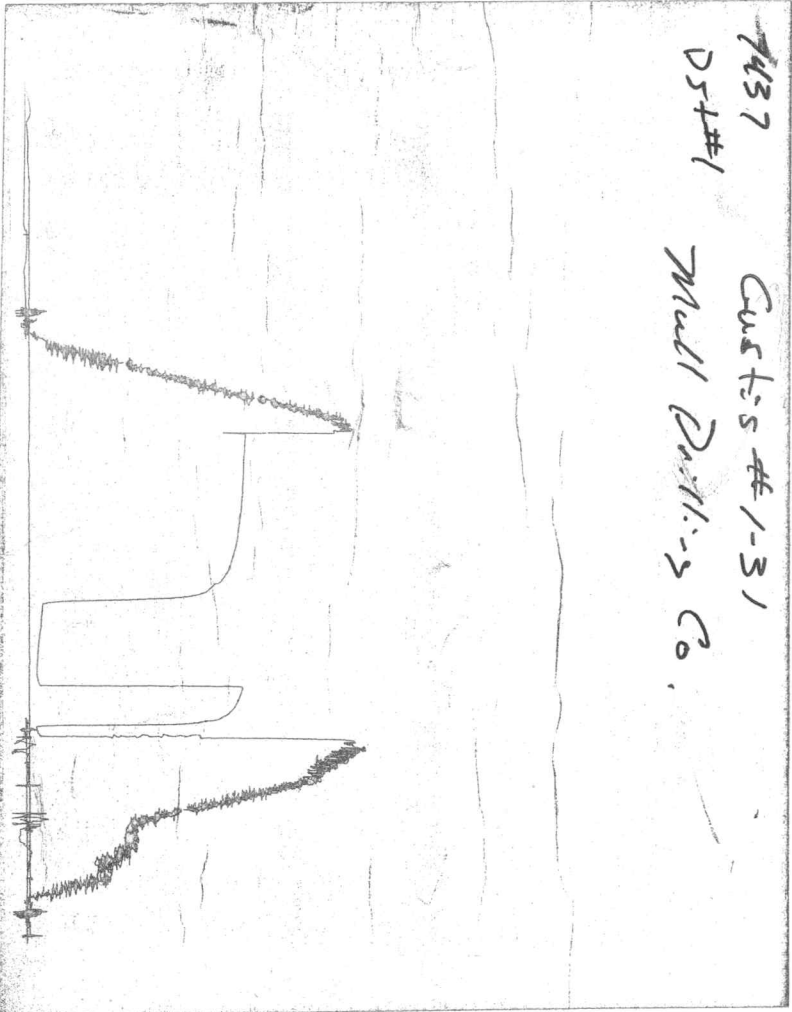
This is a photocopy of the actual AK-1 recorder chart.

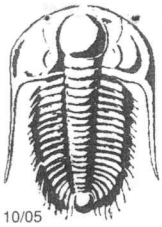
7437

Custis # 1-31

D54#1

Mull Dynamics Co.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25667

Test Ticket

Well Name & No. Curtis 1-31 Test No. 2 Date 8-30-06
 Company Mull Drilling Company Zone Tested Lansing E-F
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2563' KB 2554 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke #4
 Location: Sec. 31 Twp. 15S Rge. 26W Co. GOVE State KS
 Comment: _____ Release date / time: _____

Interval Tested 3885 3926 Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 39,000
 Anchor Length _____ 35 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth _____ 3880 Tool Weight 1500
 Bottom Packer Depth _____ 3885 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 3920 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 8.9 LCM Ø Vis. 47 WL 7.2 Drill Pipe Size 4 1/2 x 4 Ft. Run 3873

Blow Description IF: 1/4 blow BoB in 3 min,
IS: No return,
FF: 1/4 blow BoB in 5 min,
FS: surface blow BoB in 55 min,

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>856</u>	<u>248</u>	<u>—</u>	<u>856</u>
Rec. <u>174</u>	Feet of <u>MC90</u>	<u>30%</u> gas <u>60%</u> oil	<u>10%</u> water <u>10%</u> mud
Rec. <u>248</u>	Feet of <u>WMC90</u>	<u>20%</u> gas <u>60%</u> oil	<u>10%</u> water <u>10%</u> mud
Rec. <u>124</u>	Feet of <u>MWC90</u>	<u>10%</u> gas <u>60%</u> oil	<u>20%</u> water <u>10%</u> mud
Rec. <u>124</u>	Feet of <u>OCMW</u>	<u>5%</u> gas <u>65%</u> oil	<u>30%</u> water <u>30%</u> mud
Rec. <u>186</u>	Feet of <u>MCW</u>	<u>90%</u> gas <u>10%</u> oil	<u>90%</u> water <u>10%</u> mud
BHT <u>123</u>	°F Gravity <u>35</u>	°API D @ <u>60</u>	°F Corrected Gravity <u>35</u> °API
RW <u>1</u>	@ <u>65</u> °F	Chlorides <u>85,000</u> ppm	Recovery <u>85,000</u> Chlorides <u>2700</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1910</u>	PSI	<u>6772</u>	<u>1100.00</u>
(B) First Initial Flow Pressure	<u>43</u>	PSI (depth)	<u>3886</u>	Jars _____
(C) First Final Flow Pressure	<u>102</u>	PSI	<u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1087</u>	PSI (depth)	<u>3929</u>	Circ Sub <u>X N14</u>
(E) Second Initial Flow Pressure	<u>121</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>372</u>	PSI (depth)	Recorder No. _____	Straddle _____
(G) Final Shut-In Pressure	<u>1075</u>	PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1800</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

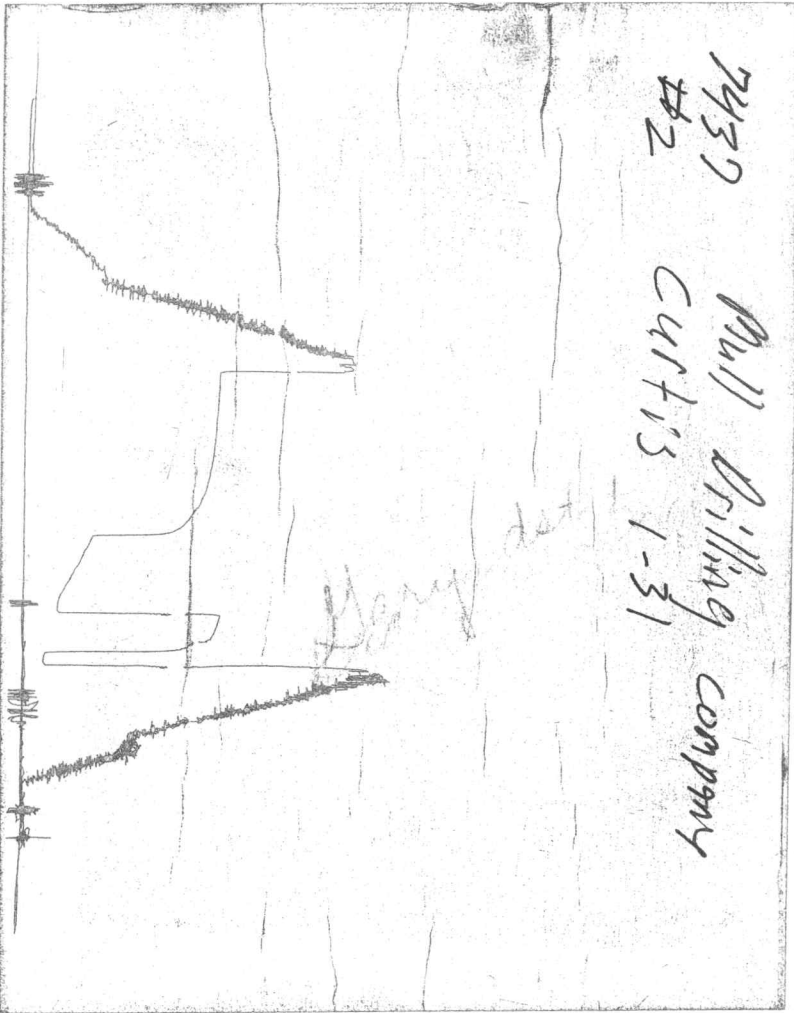
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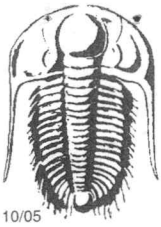
Approved By Kevin Kessler T-Open 00:06 3
 Our Representative [Signature] T-Pulled 3:46
 T-Started 21:00 T-Out 6:25
 T-On Location 22:27
 Final Flow 60
 Final Shut-In 120
 Ruined Packer _____
 Mileage X 112 = 140.00
 Sub Total: 1240
 Std. By X 1 100
 Acc. Chg: _____
 Other: _____
 Total: 1340

CHART PAGE

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

7437 Bull Drilling Company
#2 Curtis 1-31





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25668

Test Ticket

Well Name & No. <u>Curtis 1-31</u>	Test No. <u>3</u>	Date <u>8-31-06</u>
Company <u>Mull Drilling Company</u>	Zone Tested <u>Lensing H&I</u>	
Address <u>P.O. Box 2758 Wichita, KS 67201</u>	Elevation <u>2563</u> KB <u>2554</u> GL	
Co. Rep / Geo. <u>Kevin Kessler</u>	Rig <u>Duke 4</u>	
Location: Sec. <u>31</u> Twp. <u>155</u> Rge. <u>26W</u>	Co. <u>Gove</u> State <u>KS</u>	
Comment: _____	Release date / time: _____	

Interval Tested <u>3960</u>	4040	Initial Str Wt./Lbs. <u>37000</u>	Unseated Str Wt/Lbs. <u>45,000</u>
Anchor Length _____	<u>80</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth _____	<u>3955</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth _____	<u>3960</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth _____	<u>4040</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>8.9</u> LCM <u>Ø</u> Vis. <u>50</u> WL <u>7.2</u>		Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3965</u>

Blow Description IF! Bob in 2 min.
IS! Surface blow never built,
FF! Bob in 3 min.
FB! No return.

Recovery - Total Feet <u>1829</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>1829</u>
Rec. <u>155</u>	Feet of <u>MCW trace of oil</u>	%gas _____ %oil _____	<u>60</u> %water <u>40</u> %mud
Rec. <u>1674</u>	Feet of <u>MCW</u>	%gas _____ %oil _____	<u>90</u> %water <u>10</u> %mud
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>122</u> °F Gravity _____	*API D @ _____	*F Corrected Gravity _____	*API _____
RW <u>.09</u> @ <u>70</u> °F	Chlorides <u>90,000</u> ppm	Recovery <u>90,000</u> Chlorides <u>3000</u> ppm	System _____

(A) Initial Hydrostatic Mud _____	AK-1 <u>1958</u> PSI	Alpine _____	Recorder No. <u>6772</u>	Test x <u>1200.00</u>
(B) First Initial Flow Pressure _____	<u>69</u> PSI	(depth) _____	<u>3961</u>	Jars _____
(C) First Final Flow Pressure _____	<u>225</u> PSI	Recorder No. <u>7437</u>	<u>4039</u>	Safety Jt. _____
(D) Initial Shut-In Pressure _____	<u>1161</u> PSI	(depth) _____		Circ Sub <u>50.00</u>
(E) Second Initial Flow Pressure _____	<u>238</u> PSI	Recorder No. _____		Sampler _____
(F) Second Final Flow Pressure _____	<u>847</u> PSI	(depth) _____		Straddle _____
(G) Final Shut-In Pressure _____	<u>1163</u> PSI	Initial Opening <u>10</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud _____	<u>1906</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>182 - 140.00</u>
		T-On Location <u>17:20</u>		Sub Total: <u>1390</u>
		T-Started <u>18:24</u>		Std. By _____
		T-Open <u>20:15</u>		Acc. Chg: _____
		T-Pulled <u>23:55</u>		Other: _____
		T-Out <u>2:00</u>		Total: _____

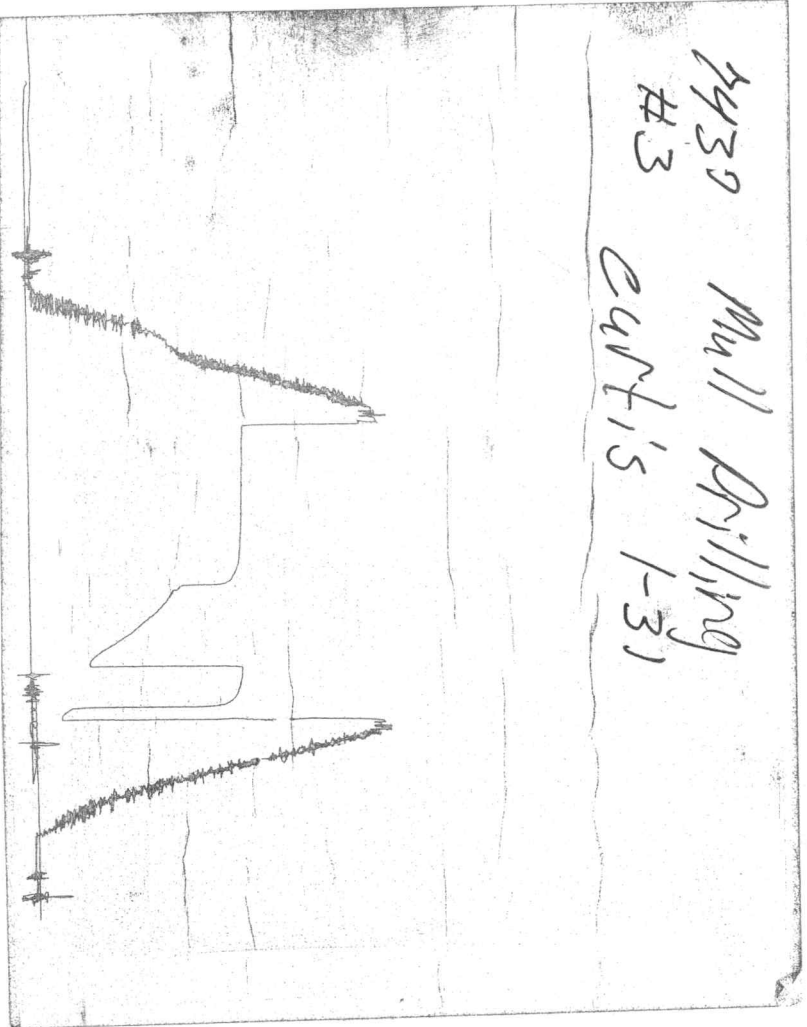
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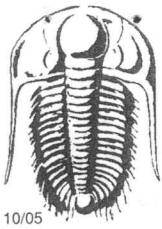
Approved By Kevin Kessler
 Our Representative _____

CHART PAGE

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

4430 Mull Drilling
#3 curf's 1-31





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9208

25669

Test Ticket

Well Name & No. Curtis #1-31 Test No. 4 Date 9-1-06
 Company Mull Drilling compny Zone Tested Lansing-J
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2563 KB 2554 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke 4
 Location: Sec. 31 Twp. 15S Rge. 26W Co. Gove State KS
 Comment: _____ Release date / time: _____

Interval Tested 4055 4070 Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 37,000
 Anchor Length _____ 15 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 62,000
 Top Packer Depth _____ 4050 Tool Weight 1500
 Bottom Packer Depth _____ 4055 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4070 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 8.9 LCM 0 Vis. 50 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4061
 Blow Description IF: 1/4 blow built to 3 in 10 min.
IS: No return.
FS: surface blow built to 7 in 60 min.
FS: No return.

Recovery - Total Feet 129 GIP _____ Ft. in DC _____ Ft. in DP 129
 Rec. 1 Feet of Free oil %gas 100% %oil _____ %water _____ %mud _____
 Rec. 66 Feet of MLW %gas _____ %oil _____ %water 70% %mud 30%
 Rec. 62 Feet of MLW %gas _____ %oil _____ %water 90% %mud 10%
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 124 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .07 @ 82 °F Chlorides 95,000 ppm Recovery 95000 Chlorides 3000 ppm System

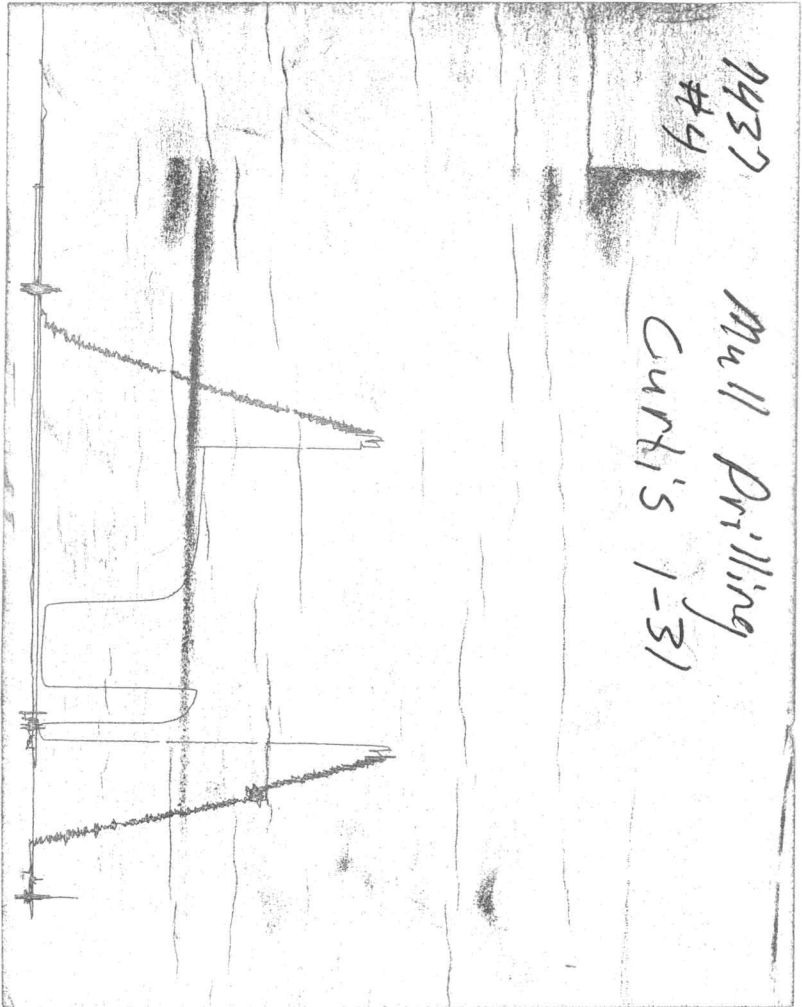
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2042</u> PSI	<u>6772</u>	<u>X 1200.00</u> <u>9</u>
(B) First Initial Flow Pressure		<u>13</u> PSI	(depth) <u>4056</u>	Jars _____
(C) First Final Flow Pressure		<u>24</u> PSI	Recorder No. <u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>950</u> PSI	(depth) <u>4069</u>	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure		<u>26</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>71</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>960</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1946</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>120</u>	Mileage _____
			T-On Location <u>2:00</u>	Sub Total: <u>1200</u>
			T-Started <u>9:22</u>	Std. By <u>chr</u> <u>600</u>
			T-Open <u>11:09</u>	Acc. Chg: _____
			T-Pulled <u>14:49</u>	Other: _____
			T-Out <u>17:00</u>	Total: <u>\$1800</u>

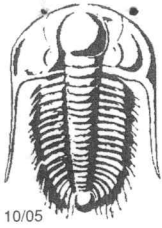
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25670

Test Ticket

Well Name & No. Curtis 1-31 Test No. 5 Date 9-2-06
 Company Mull Drilling company Zone Tested Leasing K-L
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2563 KB 2554 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke 4
 Location: Sec. 31 Twp. 15S Rge. 26W Co. Gove State KS
 Comment: _____ Release date / time: _____

Interval Tested 4070 4130 Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 38,000
 Anchor Length _____ 60 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth _____ 4065 Tool Weight 1500
 Bottom Packer Depth _____ 4070 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4130 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM Ø Vis. 54 WL 8.0 Drill Pipe Size 4 1/2 KH Ft. Run 4060

Blow Description IF: 1/4 blow built to 8 in 10 min,
IS: No return,
FF: BoB in 11 min,
FS: No return,

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>77</u>	<u>359</u>	<u>—</u>	<u>77</u>
Rec. <u>2</u>	Feet of <u>free oil</u>	%gas <u>100%</u>	%oil _____ %water _____ %mud _____
Rec. <u>13</u>	Feet of <u>90 CM</u>	10%gas <u>10%</u>	%oil _____ %water <u>80%</u> %mud _____
Rec. <u>62</u>	Feet of <u>mc90</u>	60%gas <u>10%</u>	%oil _____ %water <u>30%</u> %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>118</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW _____	@ _____ °F	Chlorides <u>✓</u> ppm	Recovery _____ Chlorides <u>3200</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2055</u> PSI	<u>2055</u> PSI	<u>6772</u>	<u>X 1200.00</u>
(B) First Initial Flow Pressure	<u>14</u> PSI	<u>14</u> PSI	<u>4671</u>	Jars _____
(C) First Final Flow Pressure	<u>19</u> PSI	<u>19</u> PSI	<u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1002</u> PSI	<u>1002</u> PSI	<u>4829</u>	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure	<u>28</u> PSI	<u>28</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>46</u> PSI	<u>46</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1049</u> PSI	<u>1049</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1901</u> PSI	<u>1901</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>112-140.00</u>
			T-On Location <u>2:30</u>	Sub Total: _____
			T-Started <u>3:20</u>	Std. By _____
			T-Open <u>5:07</u>	Acc. Chg: _____
			T-Pulled <u>8:47</u>	Other: _____
			T-Out <u>10:45</u>	Total: <u>1340</u>

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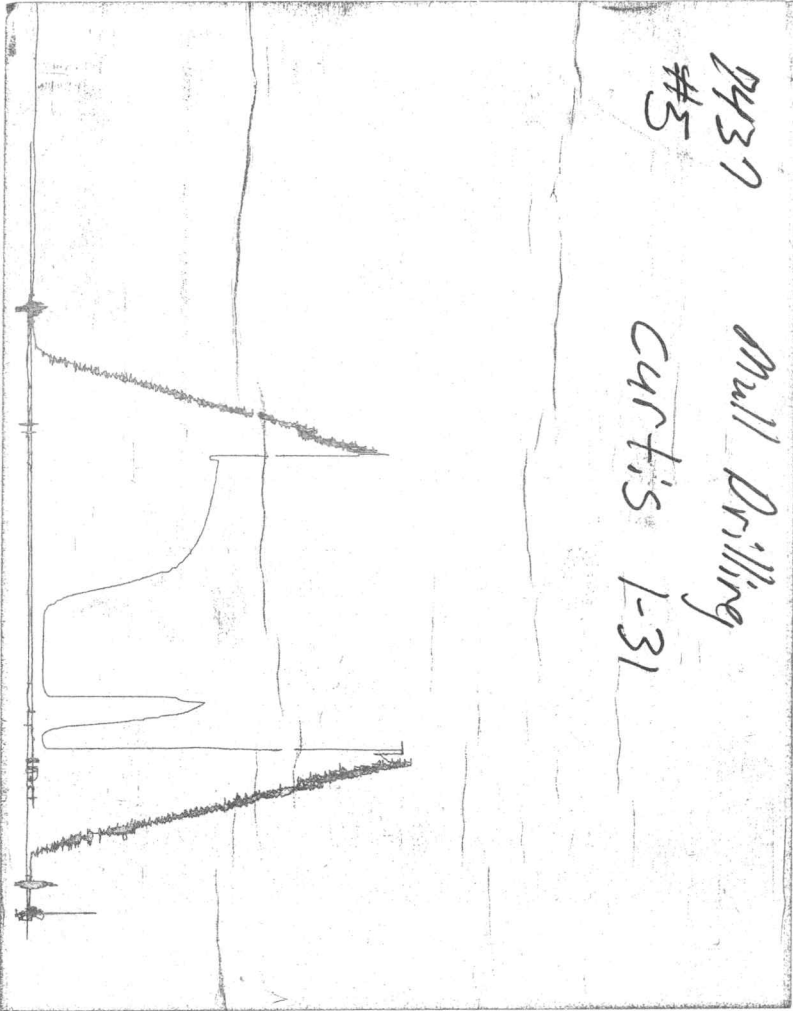
Approved By Kevin Kessler
 Our Representative [Signature]

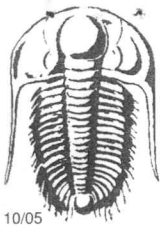
CHART PAGE

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

2437
#5

Mull Drilling
Curtis 1-31





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25671

Test Ticket

Well Name & No. Curtis 1-31 Test No. 6 Date 9-3-06
 Company Mull Drilling company Zone Tested Ft. Scott
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2563 KB 2554 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke 4
 Location: Sec. 31 Twp. 15S Rge. 26W Co. GOVE State KS
 Comment: _____ Release date / time: _____

Interval Tested 4300 4360 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 40,000
 Anchor Length _____ 60 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth _____ 4295 Tool Weight 1500
 Bottom Packer Depth _____ 4300 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4360 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM Ø Vis. 56 WL 8.0 Drill Pipe Size 4 1/2 X H Ft. Run 4310

Blow Description IFI BoB in 2 min.
IS: No return.
FF: BoB in 3 min.
FS: BoB in 34 min.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>568</u>	<u>2346</u>	<u>—</u>	<u>568</u>
Rec. <u>134</u>	Feet of <u>MC90</u>	<u>50%</u> gas <u>40</u> %oil	%water <u>10</u> %mud
Rec. <u>186</u>	Feet of <u>MC90</u>	<u>50%</u> gas <u>10</u> %oil	%water <u>40</u> %mud
Rec. <u>186</u>	Feet of <u>NWLC90</u>	<u>35%</u> gas <u>50</u> %oil	<u>10%</u> water <u>5</u> %mud
Rec. <u>62</u>	Feet of <u>MLW</u>	%gas _____ %oil _____	<u>70</u> %water <u>30</u> %mud
BHT <u>129</u>	°F Gravity <u>—</u>	°API D @ <u>—</u>	°F Corrected Gravity <u>—</u> °API
RW <u>.08</u>	@ <u>83</u> °F	Chlorides <u>85,000</u> ppm	Recovery <u>85,000</u> Chlorides <u>4400</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2163</u> PSI	<u>6792</u>	<u>X 1200.00</u>
(B) First Initial Flow Pressure		<u>58</u> PSI	(depth) <u>4301</u>	Jars _____
(C) First Final Flow Pressure		<u>85</u> PSI	Recorder No. <u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>330</u> PSI	(depth) <u>4359</u>	Circ Sub <u>X NIL</u>
(E) Second Initial Flow Pressure		<u>112</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>232</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>335</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2680</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>112-140.00</u>
			T-On Location <u>7:20</u>	Sub Total: _____
			T-Started <u>8:38</u>	Std. By <u>1/2</u> <u>50</u>
			T-Open <u>10:34</u>	Acc. Chg: _____
			T-Pulled <u>14:14</u>	Other: _____
			T-Out <u>17:00</u>	Total: <u>\$1390</u>

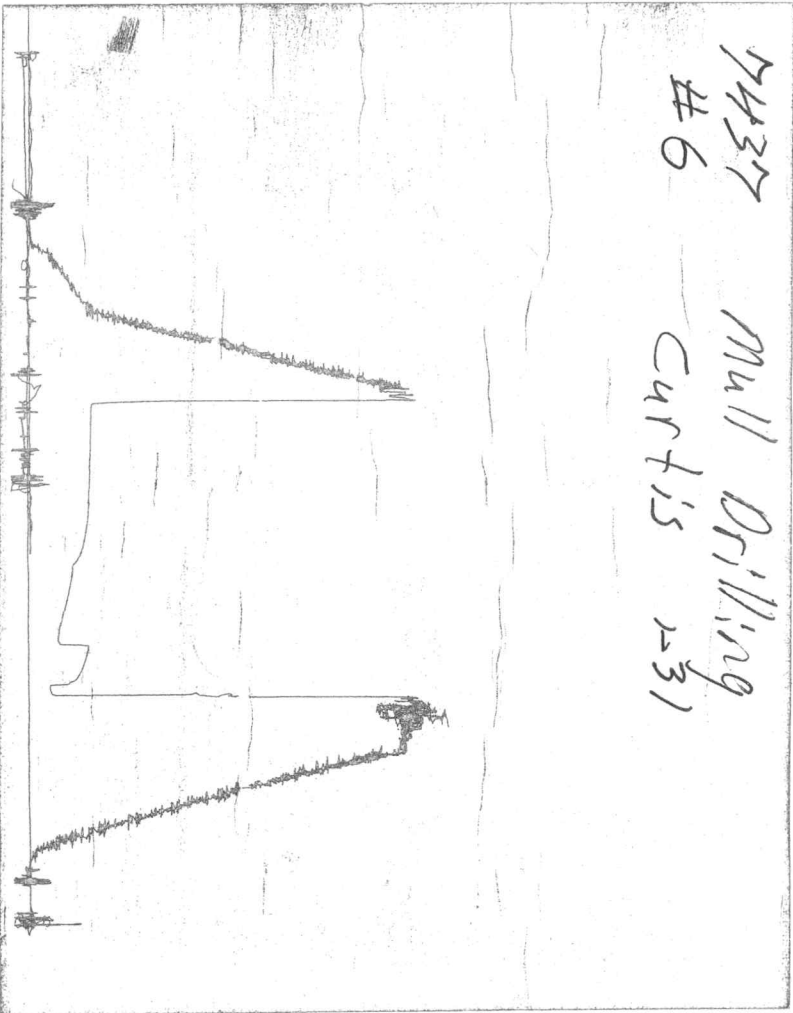
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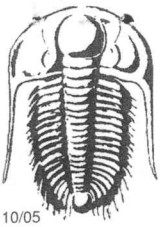
Approved By Kevin Kessler
 Our Representative [Signature]

CHART PAGE

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

7437 Mull Drilling
#6 Curtis 1-31





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25672

Test Ticket

Well Name & No.	<u>Curtis 1-31</u>	Test No.	<u>7</u>	Date	<u>9-4-06</u>
Company	<u>Mull Drilling Company</u>	Zone Tested	<u>Mississippi</u>		
Address	<u>P.O. Box 2758 Wichita, KS 67201</u>	Elevation	<u>2563</u>	KB	<u>2554</u>
Co. Rep / Geo.	<u>Kevin Kessler</u>	Rig	<u>Duke 4</u>		
Location: Sec.	<u>31</u>	Twp.	<u>155</u>	Rge.	<u>26W</u>
		Co.	<u>Gove</u>	State	<u>KS</u>
Comment:					Release date / time:

Interval Tested	<u>4375</u>	<u>4435</u>	Initial Str Wt./Lbs.	<u>38,000</u>	Unseated Str Wt./Lbs.	<u>40,000</u>	
Anchor Length		<u>60</u>	Wt. Set Lbs	<u>25,000</u>	Wt. Pulled Loose/Lbs.	<u>50,000</u>	
Top Packer Depth		<u>4370</u>	Tool Weight	<u>1500</u>			
Bottom Packer Depth		<u>4375</u>	Hole Size 7 7/8"	<input checked="" type="checkbox"/>	Rubber Size 6 3/4"	<input checked="" type="checkbox"/>	
Total Depth		<u>4435</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>—</u>	
Mud Wt.	<u>9.2</u>	LCM	<u>Ø</u>	Vis.	<u>53</u>	WL	<u>10.4</u>
Blow Description	<u>IF: 1/4 blow built to 6 in 10 min.</u>						

IS: No return.
FF: BOB in 22 min.
FS: No return.

Recovery - Total Feet	<u>279</u>	GIP	<u>93</u>	Ft. in DC	<u>—</u>	Ft. in DP	<u>279</u>
Rec.	<u>186</u>	Feet of	<u>90</u>	10 %gas	<u>90</u>	%oil	<u>—</u>
				%water	<u>—</u>	%mud	<u>—</u>
Rec.	<u>31</u>	Feet of	<u>me90</u>	10 %gas	<u>50</u>	%oil	<u>40</u>
				%water	<u>—</u>	%mud	<u>—</u>
Rec.	<u>62</u>	Feet of	<u>90cm</u>	30 %gas	<u>10</u>	%oil	<u>60</u>
				%water	<u>—</u>	%mud	<u>—</u>
Rec.		Feet of		%gas		%oil	
				%water		%mud	
BHT	<u>127</u>	°F Gravity	<u>38</u>	°API D @	<u>80</u>	°F Corrected Gravity	<u>36</u>
				°API			
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>4700</u>	ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	<u>2154</u>	PSI	Recorder No.	<u>6772</u>	Test X	<u>1200.00</u>
(B) First Initial Flow Pressure			<u>16</u>	PSI	(depth)	<u>4376</u>	Jars	
(C) First Final Flow Pressure			<u>42</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt.	
(D) Initial Shut-In Pressure			<u>1258</u>	PSI	(depth)	<u>4434</u>	Circ Sub X	<u>N/L</u>
(E) Second Initial Flow Pressure			<u>43</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			<u>144</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			<u>1255</u>	PSI	Initial Opening	<u>10</u>	Ext. Packer	
(Q) Final Hydrostatic Mud			<u>2139</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>112-140.00</u>
					T-On Location	<u>4:20</u>	Sub Total:	
					T-Started	<u>4:46</u>	Std. By	
					T-Open	<u>6:20</u>	Acc. Chg:	<u>\$1340</u>
					T-Pulled	<u>10:00</u>	Other:	
					T-Out	<u>12:45</u>	Total:	

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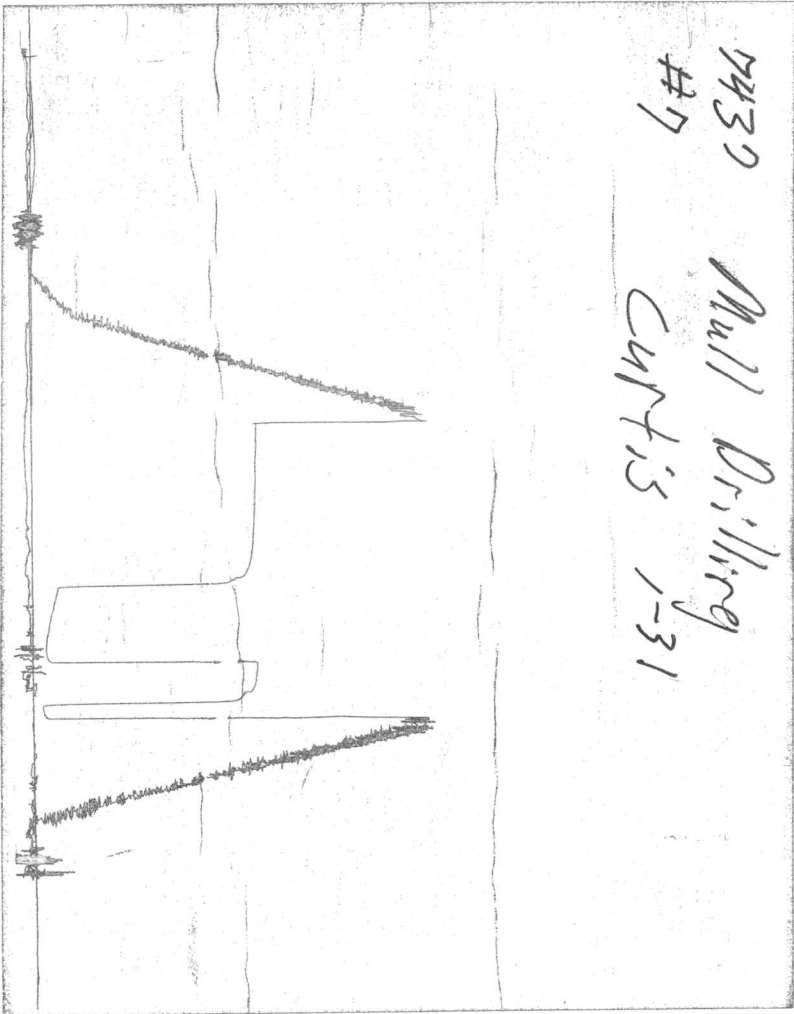
Approved By Kevin J. Kessler

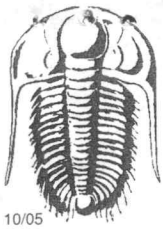
Our Representative [Signature]

CHART PAGE

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

7439 Mull Drilling
#7 Curtis 1-31





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25673

Test Ticket

Well Name & No. Curtis 1-31 Test No. 8 Date 9-4-06
 Company Mull Drilling Company Zone Tested Mississippi
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2563 KB 2554 GL
 Co. Rep / Geo. Kevin Kessler Rig Duke 4
 Location: Sec. 31 Twp. 15S Rge. 26W Co. Gove State KS
 Comment: _____ Release date / time: _____

Interval Tested 4435 4445 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length _____ 10 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth _____ 4430 Tool Weight 1500
 Bottom Packer Depth _____ 4435 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4445 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.1 LCM 0 Vis. 50 WL 8.0 Drill Pipe Size 4 1/2 x H Ft. Run 4436

Blow Description IF; BOB in 1 min,
FS; surface blow built to 3 in 30 min,
FF; BOB in 1 min,
FS; No return,

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>2325</u>	<u>248</u>	<u>—</u>	<u>2325</u>
Rec. <u>2201</u> Feet of <u>90</u>	<u>20</u> %gas	<u>80</u> %oil	%water %mud
Rec. <u>124</u> Feet of <u>90cm</u>	<u>20</u> %gas	<u>16</u> %oil	%water <u>70</u> %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
Rec. _____ Feet of _____	%gas	%oil	%water %mud
BHT <u>133</u> °F Gravity <u>36</u>	°API D @ <u>50</u>	°F Corrected Gravity <u>37</u>	°API
RW <u>—</u> @ <u>—</u> °F	Chlorides <u>—</u> ppm	Recovery <u>—</u>	Chlorides <u>4900</u> ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2193</u> PSI	<u>6772</u>	<u>1200.00</u>	
(B) First Initial Flow Pressure	<u>155</u> PSI	(depth) <u>4436</u>	Jars _____	
(C) First Final Flow Pressure	<u>281</u> PSI	Recorder No. <u>7437</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>1212</u> PSI	(depth) <u>4444</u>	Circ Sub <u>x 50.00</u>	
(E) Second Initial Flow Pressure	<u>321</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>857</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>1240</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>2089</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____	
		Final Flow <u>60</u>	Ruined Packer <u>200.00</u>	
		Final Shut-In <u>120</u>	Mileage <u>112 - 140.06</u>	

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Approved By Kevin J. Kessler T-Started 19:30 Std. By x2hr 200
 Our Representative [Signature] T-Open 21:36 Acc. Chg: _____
 T-Pulled 1:16 Other: 1790
 T-Out 5:50 Total: _____

CHART PAGE

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

9437 Mull Drilling
#8 Curtis 1-31

