



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

28-17s-28s Lane

McWhirter 1-28

Start Date: 2006.03.23 @ 10:59:22

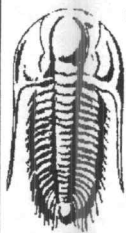
End Date: 2006.03.23 @ 16:43:16

Job Ticket #: 23135 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 Company, Inc

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

McWhirter 1-28

28-17s-28s Lane

Job Ticket: 23135

DST#: 1

Test Start: 2006.03.23 @ 10:59:22

GENERAL INFORMATION:

Formation: **Lansing- H**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:36:32

Time Test Ended: 16:43:16

Interval: **4100.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Total Depth: **4150.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2732.00 ft (KB)**

2723.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: **12.75 psig @ 4101.00 ft (KB)**

Start Date: **2006.03.23**

End Date:

2006.03.23

Start Time: **10:59:22**

End Time:

16:43:16

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2006.03.23 @ 12:36:17**

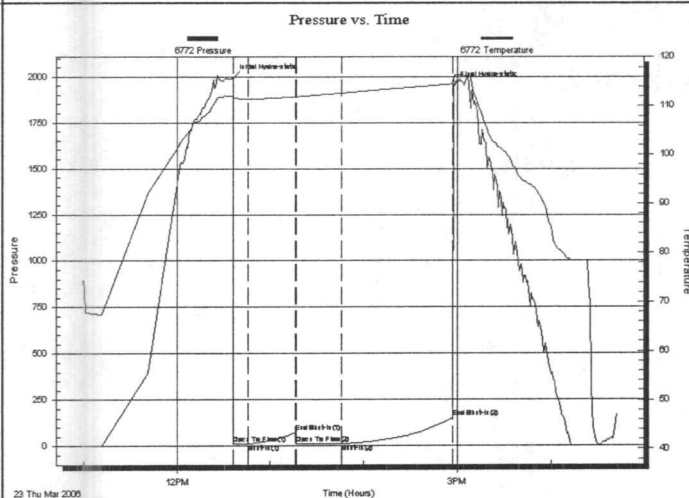
Time Off Btm: **2006.03.23 @ 14:57:47**

TEST COMMENT: IF: Weak surface blow died in 4 min.

IS: No return.

FF: No return.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.97	112.10	Initial Hydro-static
1	11.68	111.63	Open To Flow (1)
10	12.32	111.44	Shut-In(1)
41	74.05	111.93	End Shut-In(1)
41	11.42	111.90	Open To Flow (2)
70	12.75	112.64	Shut-In(2)
141	151.76	114.51	End Shut-In(2)
142	1950.69	115.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.04

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23135

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.03.23 @ 10:59:22

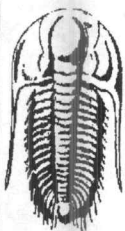
Tool Information

Drill Pipe:	Length: 4091.00 ft	Diameter: 3.80 inches	Volume: 57.39 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: 58000.00 lb
		Total Volume: 57.39 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	4100.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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			4081.00	
Shut In Tool	5.00			4086.00	
Hydraulic tool	5.00			4091.00	
Packer	5.00			4096.00	20.00 Bottom Of Top Packer
Packer	4.00			4100.00	
Stubb	1.00			4101.00	
Recorder	0.00	6772	Inside	4101.00	
Perforations	12.00			4113.00	
Change Over Sub	1.00			4114.00	
Drill Pipe	30.00			4144.00	
Change Over Sub	1.00			4145.00	
Recorder	0.00	7437	Outside	4145.00	
Bullnose	5.00			4150.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23135

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.03.23 @ 10:59:22

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:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.042

Total Length: 3.00 ft

Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

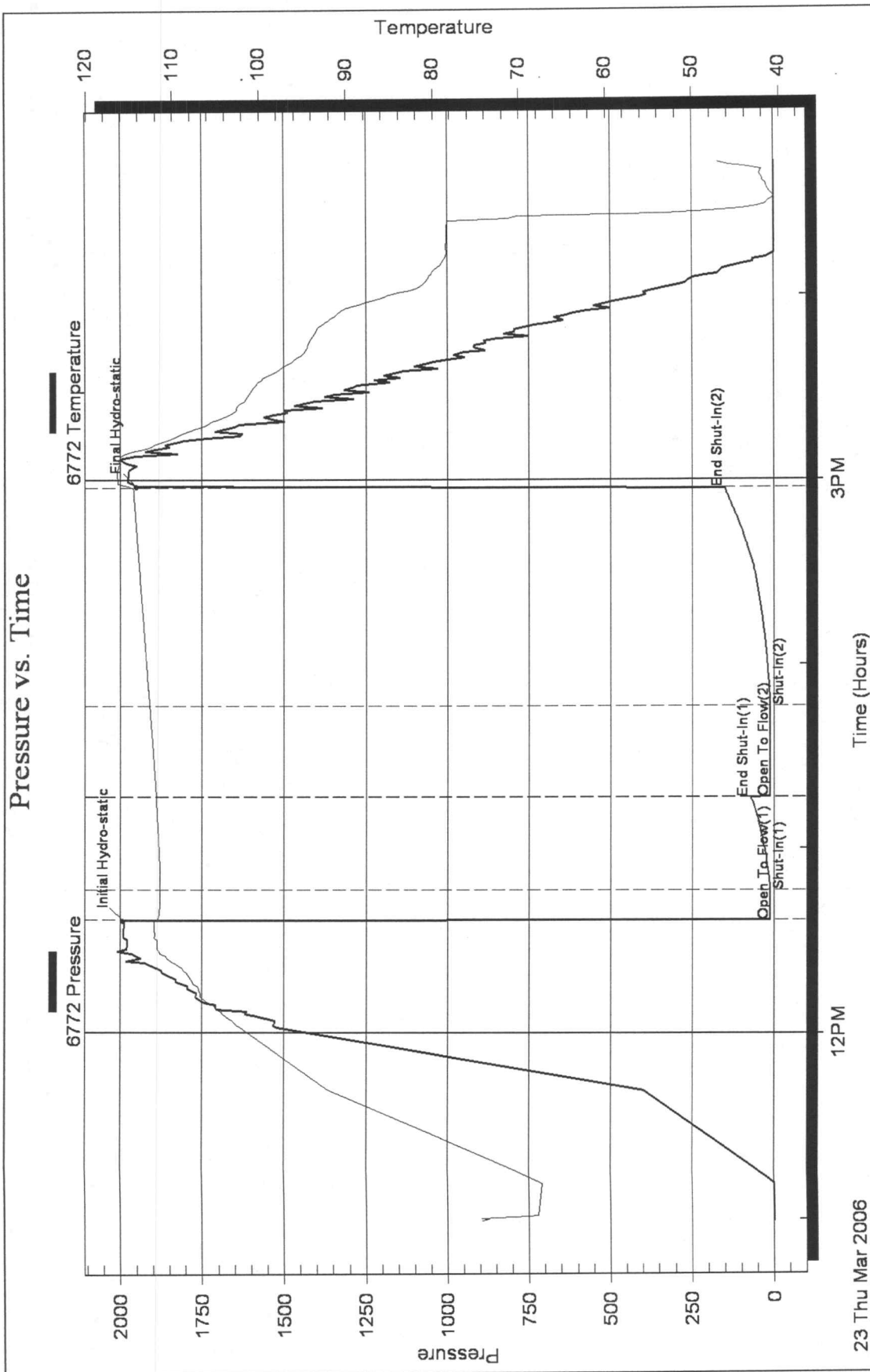
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

28-17s-28s Lane

McWhirter 1-28

Start Date: 2006.03.24 @ 12:00:47

End Date: 2006.03.24 @ 18:04:26

Job Ticket #: 23136 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 Company, Inc

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

McWhirter 1-28

28-17s-28s Lane

Job Ticket: 23136

DST#: 2

Test Start: 2006.03.24 @ 12:00:47

GENERAL INFORMATION:

Formation: **Lansing- I**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:54:42

Time Test Ended: 18:04:26

Interval: **4140.00 ft (KB) To 4170.00 ft (KB) (TVD)**

Total Depth: **4170.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2732.00 ft (KB)**

2723.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: **13.08 psig @ 4141.00 ft (KB)**

Start Date: **2006.03.24**

End Date:

Start Time: **12:00:47**

End Time:

2006.03.24

18:04:26

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2006.03.24 @ 13:54:27**

Time Off Btm: **2006.03.24 @ 16:06:27**

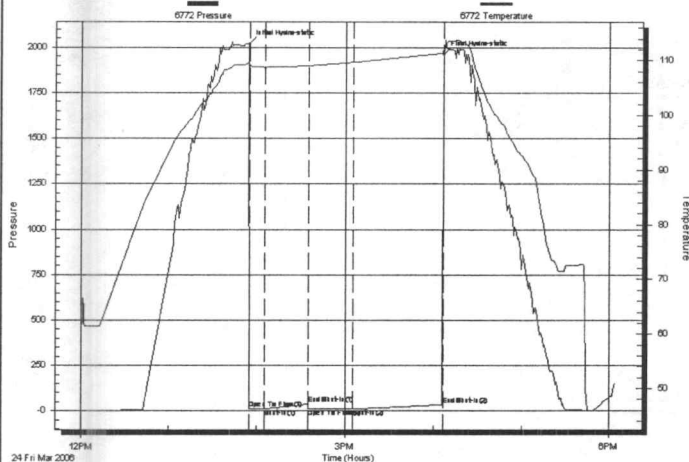
TEST COMMENT: IF: Weak surface blow died in 8 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.12	109.44	Initial Hydro-static
1	12.43	108.92	Open To Flow (1)
11	12.87	108.73	Shut-In(1)
40	38.54	109.03	End Shut-In(1)
41	12.17	109.02	Open To Flow (2)
71	13.08	109.67	Shut-In(2)
132	35.25	111.30	End Shut-In(2)
132	1960.44	112.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.04

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23136

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.03.24 @ 12:00:47

Tool Information

Drill Pipe:	Length:	4151.00 ft	Diameter:	3.80 inches	Volume:	58.23 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:	30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	58000.00 lb
					Total Volume:	58.23 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight: Initial	38000.00 lb
Depth to Top Packer:		4140.00 ft					Final	38000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		50.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	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	
Recorder	0.00	6772	Inside	4141.00	
Perforations	24.00			4165.00	
Recorder	0.00	7437	Outside	4165.00	
Bullnose	5.00			4170.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23136

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.03.24 @ 12:00:47

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100% _m	0.042

Total Length: 3.00 ft

Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

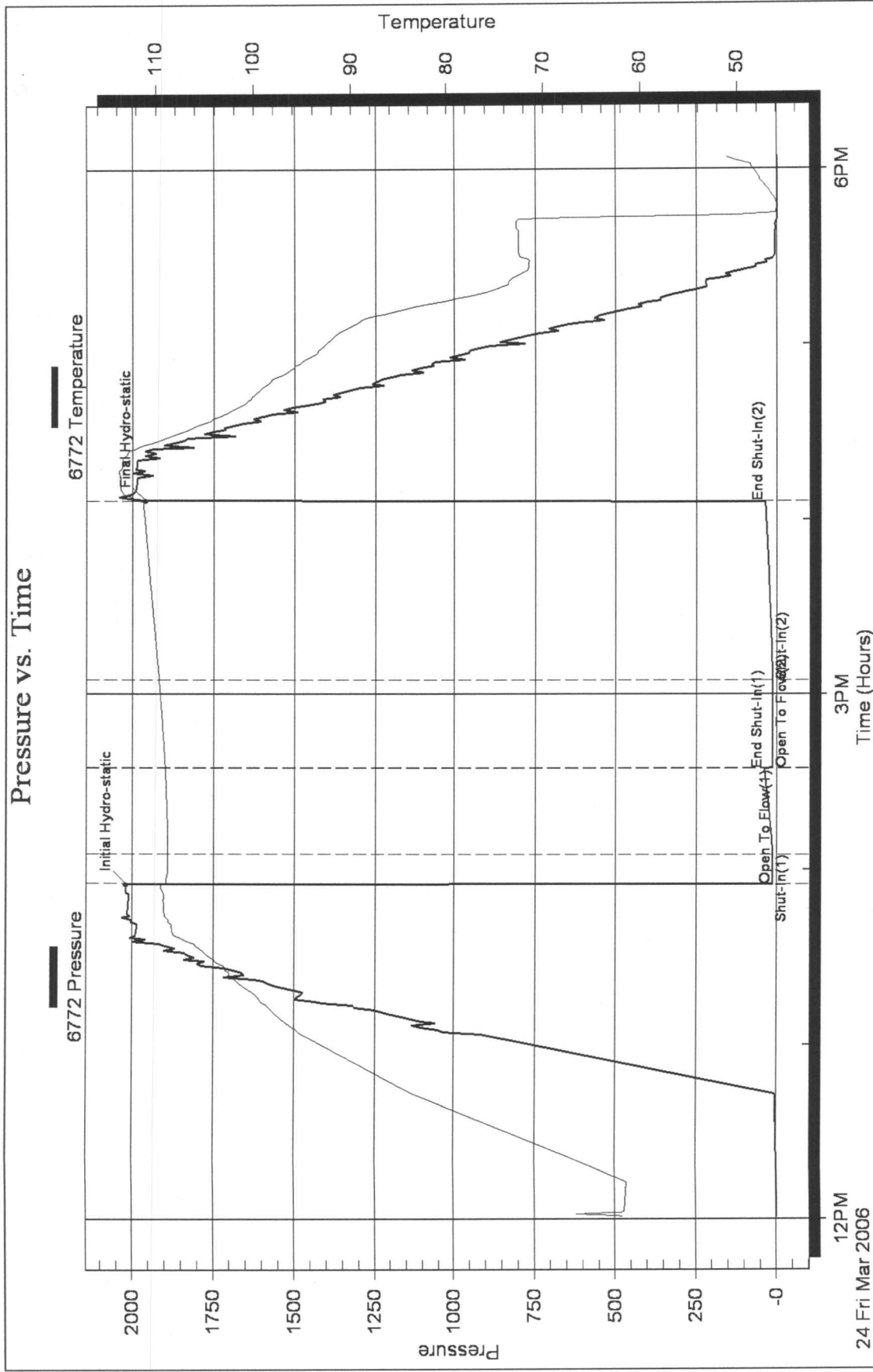
Inside

Mull Drilling Company, Inc

28-17s-28s Lane

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

28-17s-28s Lane

McWhirter 1-28

Start Date: 2006.03.24 @ 14:20:05

End Date: 2006.03.24 @ 19:54:44

Job Ticket #: 23137 DST #: 3

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 Company, Inc

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

McWhirter 1-28

28-17s-28s Lane

Job Ticket: 23137

DST#: 3

Test Start: 2006.03.24 @ 14:20:05

GENERAL INFORMATION:

Formation: **Lansing- J**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:52:30

Time Test Ended: 19:54:44

Interval: **4170.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Total Depth: **4200.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2732.00 ft (KB)**

2723.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **12.27 psig @ 4171.00 ft (KB)**

Start Date: **2006.03.24**

End Date:

Start Time: **14:20:05**

End Time:

2006.03.24

19:54:44

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2006.03.24 @ 15:52:15**

Time Off Btm: **2006.03.24 @ 18:03:00**

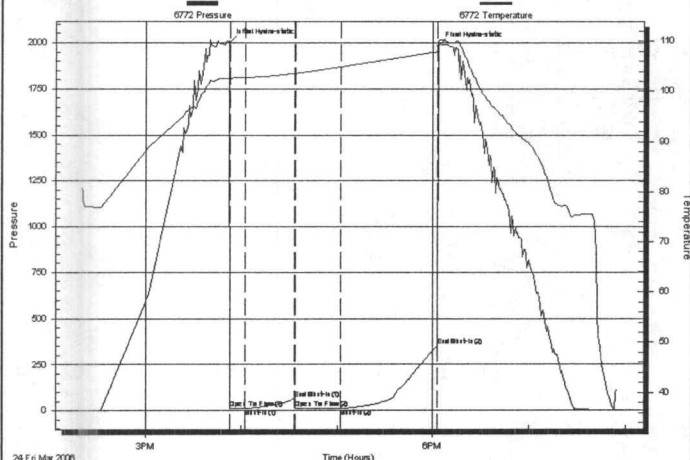
TEST COMMENT: IF: Surface blow died in 7 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.15	102.53	Initial Hydro-static
1	11.13	101.46	Open To Flow (1)
11	11.85	102.77	Shut-In(1)
41	65.92	103.57	End Shut-In(1)
41	11.86	103.58	Open To Flow (2)
70	12.27	104.87	Shut-In(2)
131	351.34	107.88	End Shut-In(2)
131	1983.57	108.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23137

DST#: 3

ATTN: Kevin Kessler

Test Start: 2006.03.24 @ 14:20:05

Tool Information

Drill Pipe:	Length:	4182.00 ft	Diameter:	3.80 inches	Volume:	58.66 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:	58000.00 lb
					<u>Total Volume:</u>	<u>58.66 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight: Initial	38000.00 lb
Depth to Top Packer:		4170.00 ft					Final	38000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		50.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4151.00	
Shut In Tool	5.00			4156.00	
Hydraulic tool	5.00			4161.00	
Packer	5.00			4166.00	20.00 Bottom Of Top Packer
Packer	4.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	6772	Inside	4171.00	
Perforations	24.00			4195.00	
Recorder	0.00	7437	Outside	4195.00	
Bullnose	5.00			4200.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23137

DST#: 3

ATTN: Kevin Kessler

Test Start: 2006.03.24 @ 14:20:05

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.042

Total Length: 3.00 ft

Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

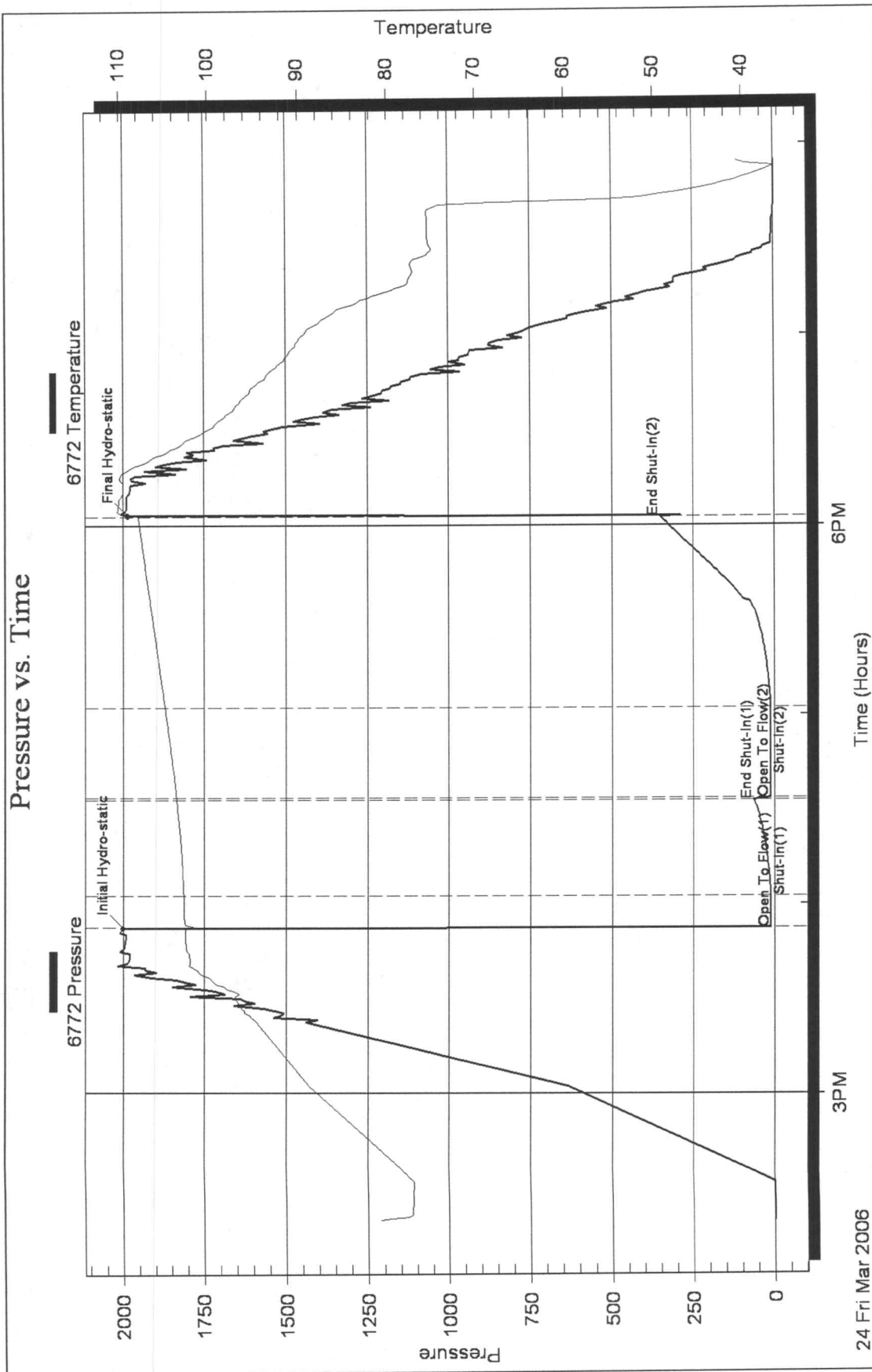
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

28-17s-28s Lane

McWhirter 1-28

Start Date: 2006.03.25 @ 03:17:33

End Date: 2006.03.25 @ 09:06:42

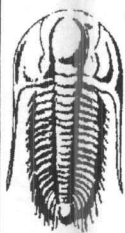
Job Ticket #: 23138

DST #: 4

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 Company, Inc

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

McWhirter 1-28

28-17s-28s Lane

Job Ticket: 23138

DST#: 4

Test Start: 2006.03.25 @ 03:17:33

GENERAL INFORMATION:

Formation: **Lansing- K**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:05:43

Time Test Ended: 09:06:42

Interval: **4200.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Total Depth: **4230.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2732.00 ft (KB)**

2723.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **15.47 psig @ 4201.00 ft (KB)**

Start Date: **2006.03.25**

End Date:

2006.03.25

Start Time: **03:17:33**

End Time:

09:06:42

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2006.03.25 @ 05:05:28**

Time Off Btm: **2006.03.25 @ 07:16:58**

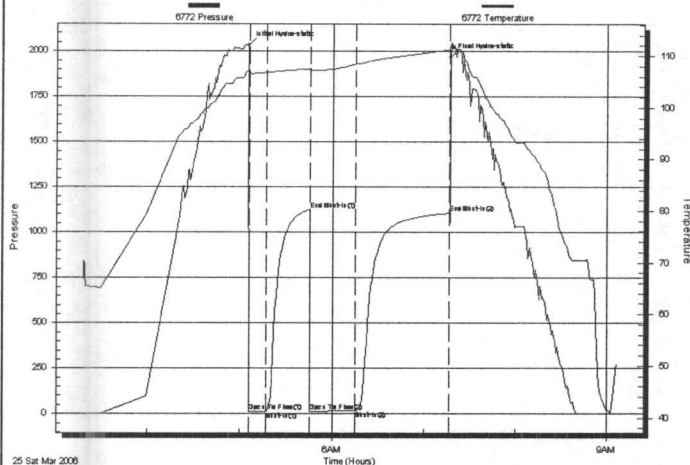
TEST COMMENT: IF: 1/4 blow died in 9 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.44	107.08	Initial Hydro-static
1	11.44	106.72	Open To Flow (1)
12	13.77	106.78	Shut-In(1)
40	1125.03	107.52	End Shut-In(1)
40	13.22	107.13	Open To Flow (2)
70	15.47	108.45	Shut-In(2)
131	1106.75	111.24	End Shut-In(2)
132	1969.10	112.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud some oil spots 100% m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23138

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.03.25 @ 03:17:33

Tool Information

Drill Pipe:	Length:	4184.00 ft	Diameter:	3.80 inches	Volume:	58.69 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:	58000.00 lb
					<u>Total Volume:</u>	<u>58.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:		4.00 ft					String Weight: Initial	38000.00 lb
Depth to Top Packer:		4200.00 ft					Final	38000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		50.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

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

Stubb	1.00			4181.00	
Shut In Tool	5.00			4186.00	
Hydraulic tool	5.00			4191.00	
Packer	5.00			4196.00	20.00 Bottom Of Top Packer
Packer	4.00			4200.00	
Stubb	1.00			4201.00	
Recorder	0.00	6772	Inside	4201.00	
Perforations	24.00			4225.00	
Recorder	0.00	7437	Outside	4225.00	
Bullnose	5.00			4230.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23138

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.03.25 @ 03:17:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.14 in³

Resistivity: 0.00 ohm.m

Salinity: 2000.00 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
5.00	mud some oil spots 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:

Serial #: 6772

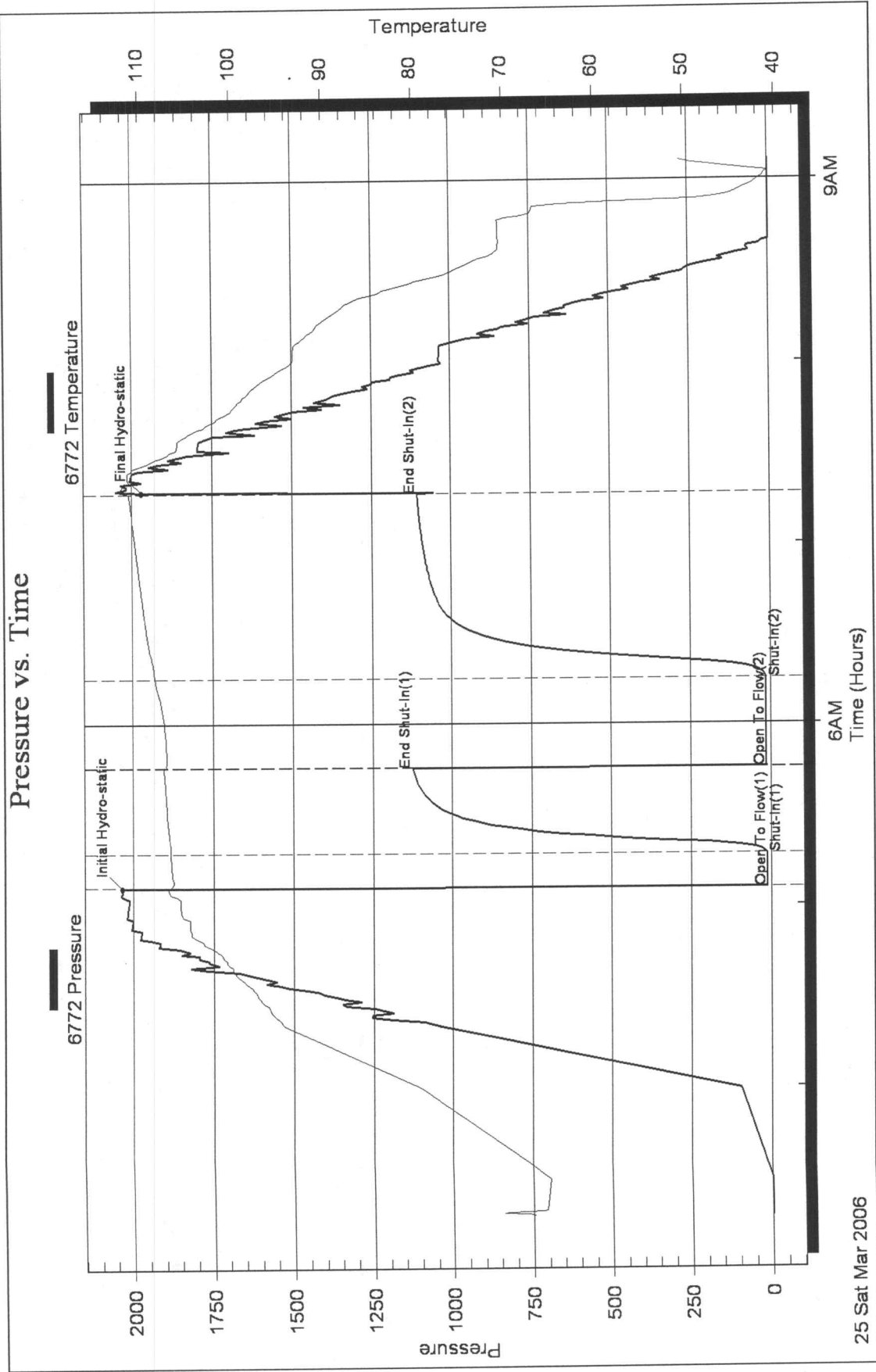
Inside

Mull Drilling Company, Inc

28-17s-28s Lane

DST Test Number: 4

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

28-17s-28s Lane

McWhirter 1-28

Start Date: 2006.03.25 @ 21:54:58

End Date: 2006.03.26 @ 06:09:22

Job Ticket #: 23139 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 Company, Inc

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

McWhirter 1-28

28-17s-28s Lane

Job Ticket: 23139

DST#: 5

Test Start: 2006.03.25 @ 21:54:58

GENERAL INFORMATION:

Formation: **Lansing L- Marmton**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:53:53

Time Test Ended: 06:09:22

Interval: **4235.00 ft (KB) To 4320.00 ft (KB) (TVD)**

Total Depth: **4320.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2732.00 ft (KB)**

2723.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **69.09 psig @ 4236.00 ft (KB)**

Start Date: **2006.03.25**

End Date:

2006.03.26

Start Time: **21:54:58**

End Time:

06:09:22

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2006.03.25 @ 23:53:38**

Time Off Btm: **2006.03.26 @ 03:34:37**

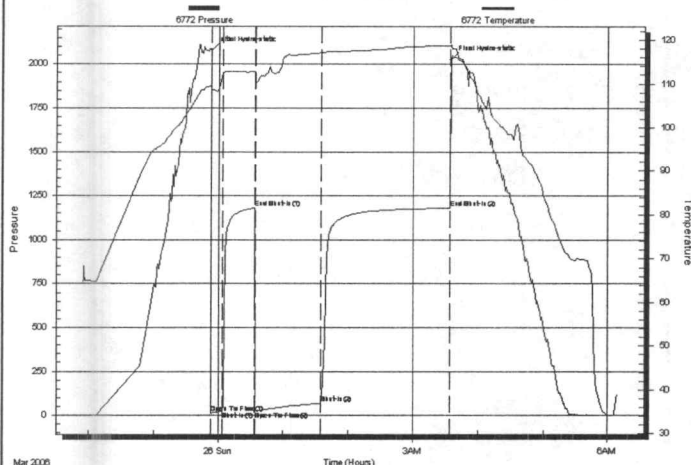
TEST COMMENT: IF: Surface blow built to 2 in 10 min.

IS: No return.

FF: 1/4 blow built to 6 1/2 in 60 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.17	109.35	Initial Hydro-static
1	13.41	108.79	Open To Flow (1)
11	23.64	112.32	Shut-In(1)
40	1180.25	112.68	End Shut-In(1)
41	25.25	112.08	Open To Flow (2)
101	69.09	117.11	Shut-In(2)
221	1179.21	118.78	End Shut-In(2)
221	2028.29	118.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 2%w 98%m	0.84
30.00	mud 100%m	0.42

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23139

DST#: 5

ATTN: Kevin Kessler

Test Start: 2006.03.25 @ 21:54:58

Tool Information

Drill Pipe:	Length: 4246.00 ft	Diameter: 3.80 inches	Volume: 59.56 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: 65000.00 lb
		Total Volume: 59.56 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4235.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 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			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	
Recorder	0.00	6772	Inside	4236.00	
Perforations	15.00			4251.00	
Change Over Sub	1.00			4252.00	
Drill Pipe	62.00			4314.00	
Change Over Sub	1.00			4315.00	
Recorder	0.00	7437	Outside	4315.00	
Bullnose	5.00			4320.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23139

DST#: 5

ATTN: Kevin Kessler

Test Start: 2006.03.25 @ 21:54:58

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	w cm 2%w 98%m	0.842
30.00	mud 100%m	0.421

Total Length: 90.00 ft

Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

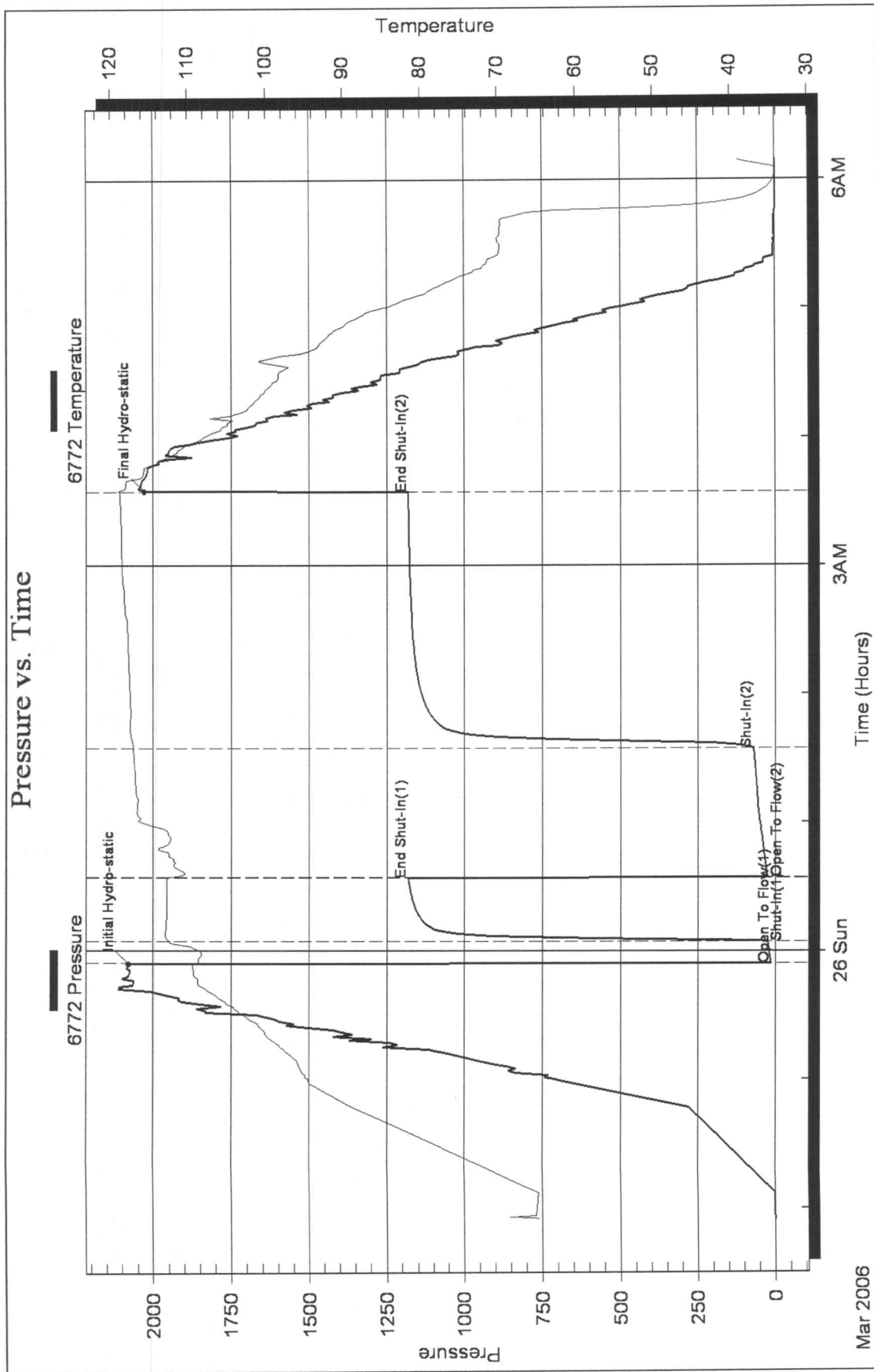
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

28-17s-28s Lane

McWhirter 1-28

Start Date: 2006.03.27 @ 07:05:20

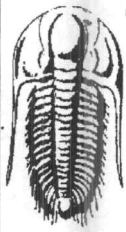
End Date: 2006.03.27 @ 13:23:50

Job Ticket #: 23140 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 Company, Inc

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

McWhirter 1-28

28-17s-28s Lane

Job Ticket: 23140

DST#: 6

Test Start: 2006.03.27 @ 07:05:20

GENERAL INFORMATION:

Formation: **Ft. Scott- Cherrokee**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:20:05

Time Test Ended: 13:23:50

Interval: **4455.00 ft (KB) To 4555.00 ft (KB) (TVD)**

Total Depth: **4555.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Reference Elevations: **2732.00 ft (KB)**

2723.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772 **Inside**

Press@RunDepth: **19.97 psig @ 4456.00 ft (KB)**

Start Date: **2006.03.27**

End Date:

2006.03.27

Start Time: **07:05:25**

End Time:

13:23:49

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2006.03.27 @ 09:19:50**

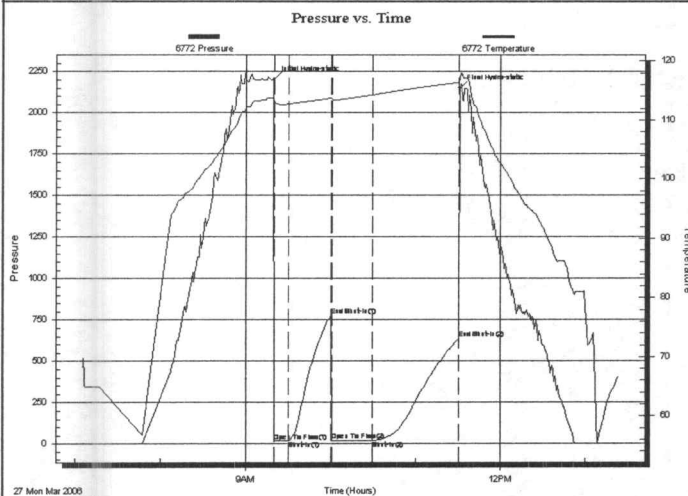
Time Off Btm: **2006.03.27 @ 11:30:49**

TEST COMMENT: **IF: 1/4 blow died in 9 min.**

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

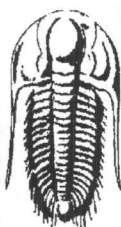
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.74	113.64	Initial Hydro-static
1	16.18	112.86	Open To Flow (1)
11	17.54	112.73	Shut-In(1)
41	777.33	113.69	End Shut-In(1)
41	18.04	113.51	Open To Flow (2)
70	19.97	114.23	Shut-In(2)
131	635.83	116.38	End Shut-In(2)
131	2148.21	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.14

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23140

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.03.27 @ 07:05:20

Tool Information

Drill Pipe:	Length:	4442.00 ft	Diameter:	3.80 inches	Volume:	62.31 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:	60000.00 lb
					<u>Total Volume:</u>	<u>62.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight: Initial	40000.00 lb
Depth to Top Packer:		4455.00 ft					Final	40000.00 lb
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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4436.00	
Shut In Tool	5.00			4441.00	
Hydraulic tool	5.00			4446.00	
Packer	5.00			4451.00	20.00 Bottom Of Top Packer
Packer	4.00			4455.00	
Stubb	1.00			4456.00	
Recorder	0.00	6772	Inside	4456.00	
Perforations	30.00			4486.00	
Change Over Sub	1.00			4487.00	
Drill Pipe	62.00			4549.00	
Change Over Sub	1.00			4550.00	
Recorder	0.00	7437	Outside	4550.00	
Bullnose	5.00			4555.00	100.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc

McWhirter 1-28

PO Box 2758
Wichita KS 67201

28-17s-28s Lane

Job Ticket: 23140

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.03.27 @ 07:05:20

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: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 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
10.00	mud 100%m	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

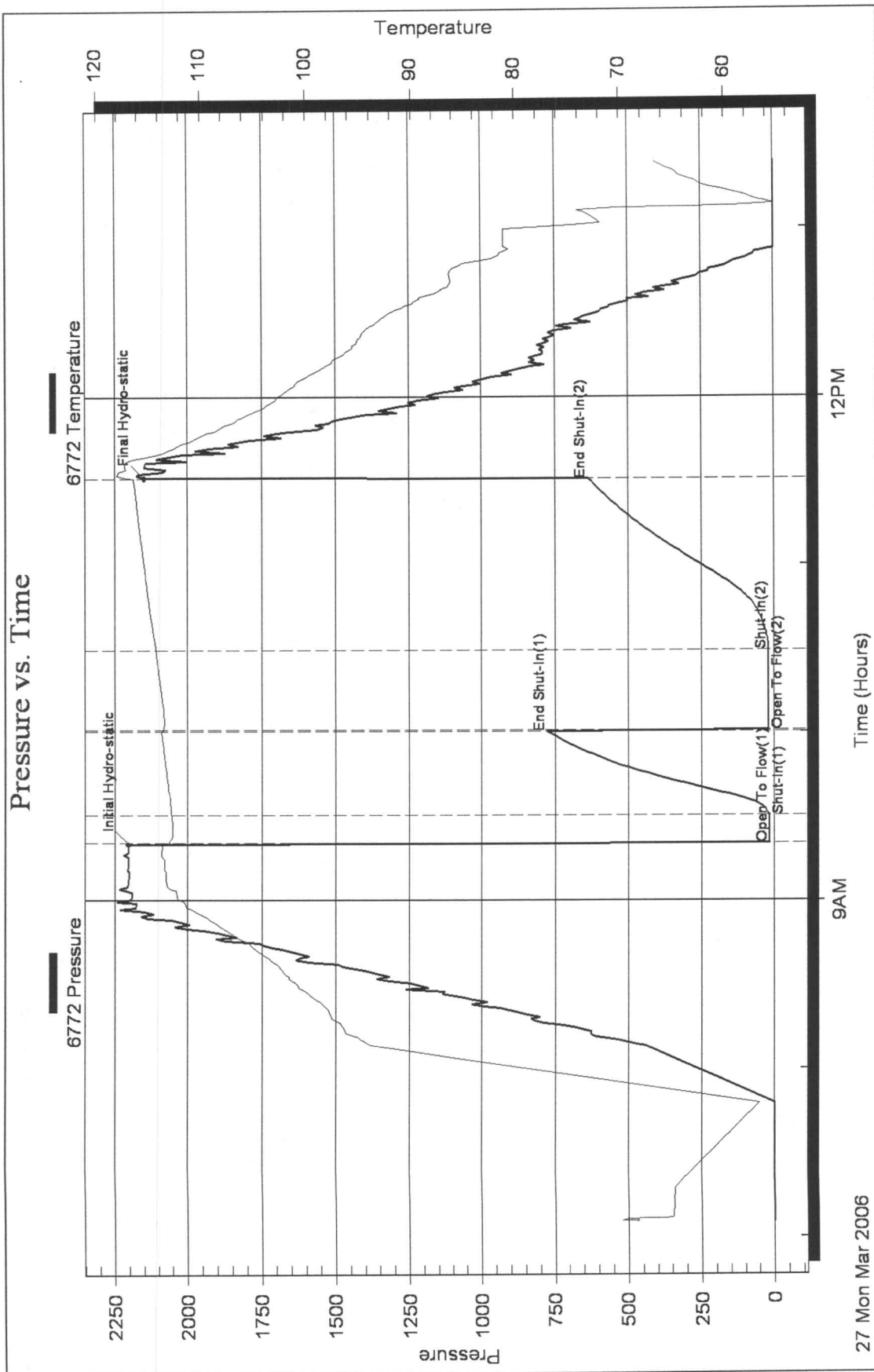
Serial #:

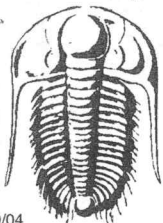
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 23135

8575

Test Ticket

Well Name & No. McWhirter 1-28 Test No. 1 Date 3-23-06
 Company Mull Drilling Co. Inc Zone Tested Lansing - H
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2732 KB 2723 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke Y Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 28 Twp. 17S Rge. 28W Co. Lane State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 400 4150 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 38,000
 Anchor Length _____ 50 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 58,000
 Top Packer Depth _____ 4095 Tool Weight 1500
 Bottom Packer Depth _____ 4100 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4150 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM 1 Vis. 48 WL 7.2 Drill Pipe Size 4 1/2 X H Ft. Run 4091
 Blow Description IF: Weak surface blow died in 4 min.
IS: No return.
FF: No blow.
FS: No return.

Recovery - Total Feet 3 GIP _____ Ft. in DC _____ 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 114 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2100 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2009</u> PSI	<u>6772</u>	<u>1100.00</u>
(B) First Initial Flow Pressure		<u>11</u> PSI	<u>4101</u>	Jars _____
(C) First Final Flow Pressure		<u>12</u> PSI	<u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>74</u> PSI	<u>4149</u>	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure		<u>11</u> PSI		Sampler _____
(F) Second Final Flow Pressure		<u>12</u> PSI		Straddle _____
(G) Final Shut-In Pressure		<u>151</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1979</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.

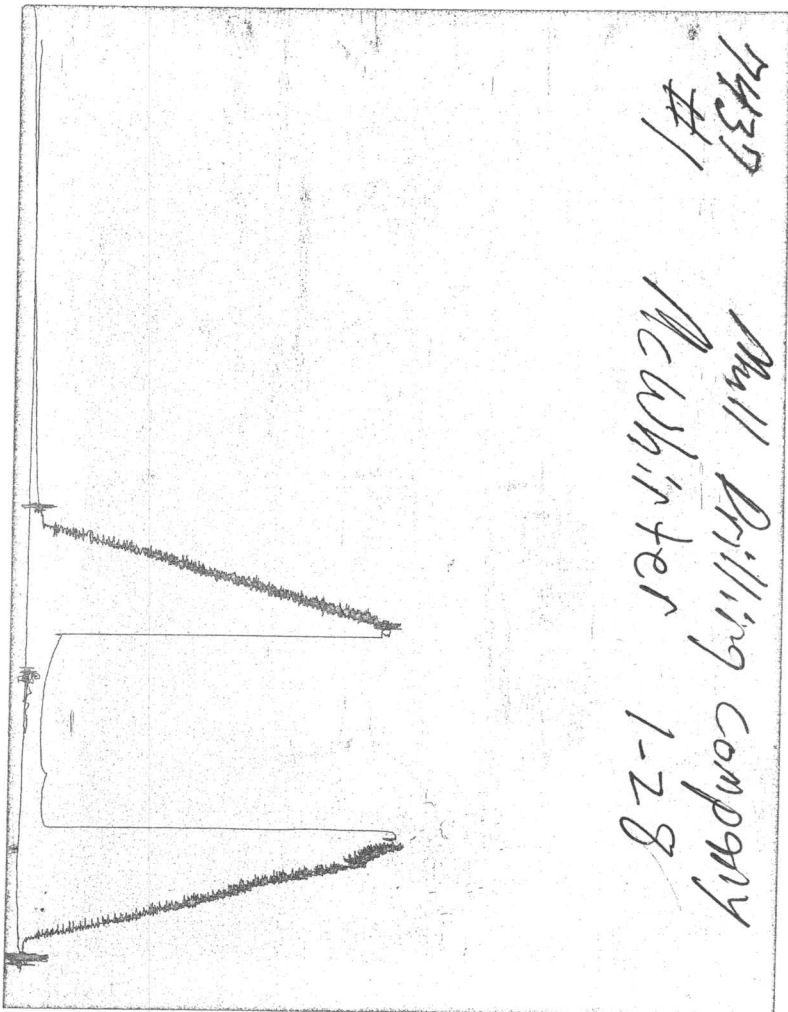
Approved By Kevin Kessler
 Our Representative [Signature]

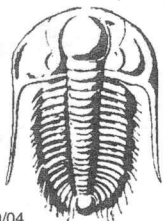
Final Flow 30
 Final Shut-In 60
 T-On Location 9:50
 T-Started 10:59
 T-Open 12:36
 T-Pulled 14:46
 T-Out 16:45

Ruined Packer _____
 Mileage X 64-80.00
 Sub Total: 1180.00
 Std. By _____
 Other _____
 Total: _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23136

Test Ticket

Well Name & No. McWhirter 1-28 Test No. 2 Date 3-24-06
 Company Mull Drilling Company, Inc Zone Tested Lansing - I
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2732 KB 2723 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke 4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 28 Twp. 17S Rge. 28W Co. Lane State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4140 4170 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 38,000
 Anchor Length _____ 30 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 58,000
 Top Packer Depth _____ 4135 Tool Weight 1500
 Bottom Packer Depth _____ 4140 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4170 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM 1 Vis. 48 WL 2.2 Drill Pipe Size 4 1/2 x 4 Ft. Run 4151
 Blow Description IF: weak surface blow died in 8 min.
IS: No return.
FF: No blow.
FS: No return.

Recovery - Total Feet 3 GIP — Ft. in DC ✓ 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 111 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 2100 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2019	PSI	Recorder No.	6772	Test x	1600.00
(B) First Initial Flow Pressure			12	PSI	(depth)	4141	Jars	
(C) First Final Flow Pressure			12	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			38	PSI	(depth)	4169	Circ Sub x	N/L
(E) Second Initial Flow Pressure			12	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			13	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			35	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2041	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.

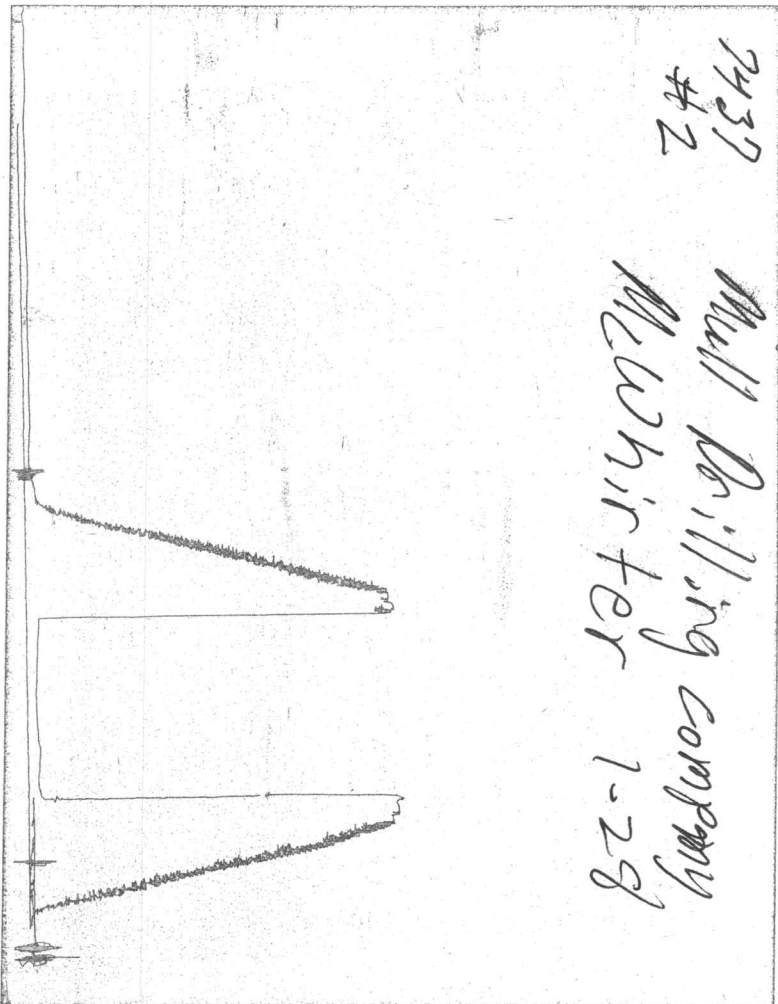
Approved By Kevin Kessler

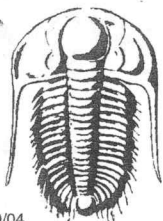
Our Representative [Signature]

Final Flow 30
 Final Shut-In 60
 T-On Location 23:20
 T-Started 00:00
 T-Open 1:54
 T-Pulled 4:04
 T-Out 6:10
 Mileage 64-80.00
 Sub Total: 1180.00
 Std. By _____
 Other _____
 Total: _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23137

Test Ticket

Well Name & No.	McWhirter 1-28	Test No.	3	Date	3-24-06
Company	Mull Drilling company, Inc	Zone Tested	Lensing-J		
Address	P.O. Box 2758 Wichita, KS 67201	Elevation	2732	KB	2723 GL
Co. Rep / Geo.	Kevin Kessler	Cont.	Duke 4	Est. Ft. of Pay	Por. %
Location: Sec.	28	Twp.	17S	Rge.	28W Co. Lane State KS
No. of Copies		Disbtribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	4170	4200	Initial Str Wt./Lbs.	38,000	Unseated Str Wt/Lbs.	38,000
Anchor Length		30	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	58,000
Top Packer Depth		4165	Tool Weight	1500		
Bottom Packer Depth		4170	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4200	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.1	LCM 1	Vis.	48	WL	7.2
Blow Description	IF: Surface blow died in 7 min.					
	IS: No return.					
	FF: No blow.					
	FS: No return.					

Recovery - Total Feet	3	GIP	—	Ft. in DC	—	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	107	°F Gravity	—	°API D @	—	°F Corrected Gravity	— °API
RW	—	@	— °F	Chlorides	— ppm	Recovery	— Chlorides 2000 ppm System

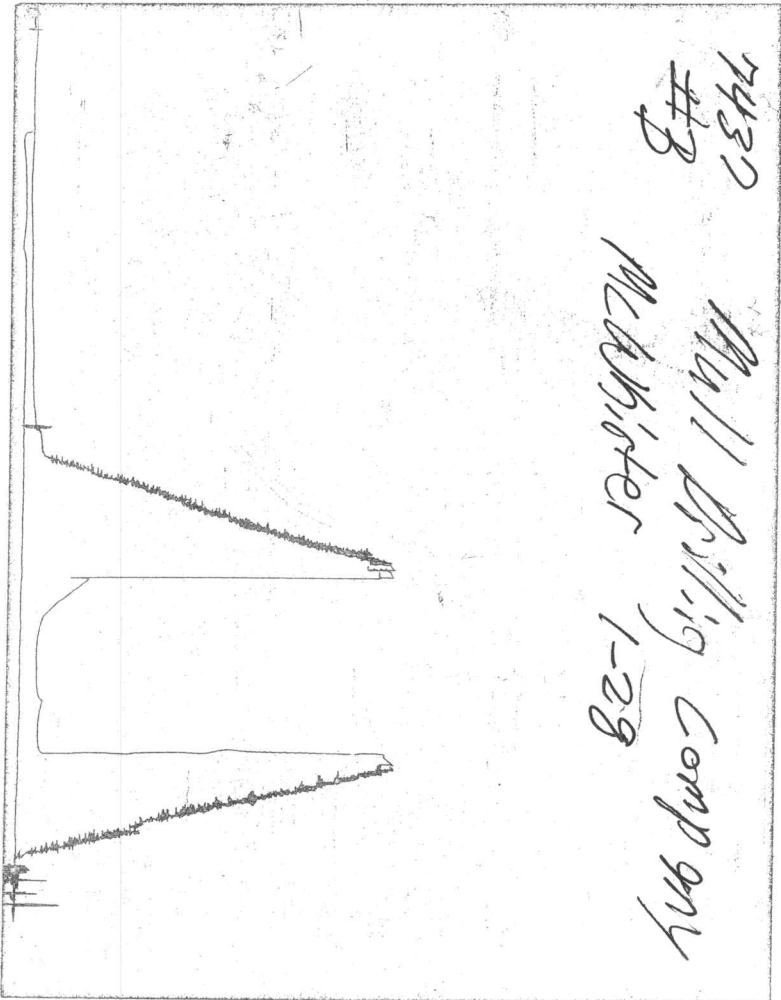
(A) Initial Hydrostatic Mud	AK-1	Alpine	2042	PSI	Recorder No.	6772	Test x	1100.00
(B) First Initial Flow Pressure			11	PSI	(depth)	4171	Jars	
(C) First Final Flow Pressure			11	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			65	PSI	(depth)	4299	Circ Sub x	N/C
(E) Second Initial Flow Pressure			11	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			12	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			351	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2045	PSI	Initial Shut-In	30	Shale Packer	
					Final Flow	30	Ruined Packer	
					Final Shut-In	60	Mileage	64-80.00
					T-On Location	13:30	Sub Total:	1180.00
					T-Started	14:20	Std. By	
					T-Open	15:32	Other	
					T-Pulled	18:02	Total:	
					T-Out	20:00		

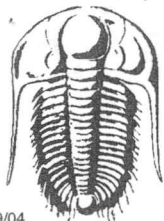
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Ben Kessler
Our Representative [Signature]

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23138

9/04

Test Ticket

Well Name & No.	McWhirter 1-28	Test No.	4	Date	3-25-06
Company	Mull Drilling Company, Inc	Zone Tested	Lansing - K		
Address	P.O. Box 2758 Wichita, KS 67201	Elevation	2732	KB	2723 GL
Co. Rep / Geo.	Kevin Kessler	Cont.	Duke 4	Est. Ft. of Pay	Por. %
Location: Sec.	28	Twp.	17S	Rge.	28W Co. Lane State KS
No. of Copies		Disbtribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	4200	4230	Initial Str Wt./Lbs.	38,000	Unseated Str Wt./Lbs.	38,000
Anchor Length		30	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	58,000
Top Packer Depth		4195	Tool Weight	1500		
Bottom Packer Depth		4200	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4230	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.1 LCM	1 Vis. 48	WL 7.2	Drill Pipe Size 4 1/2 x H	Ft. Run	4184
Blow Description	IF: 1/4 blow died in 9 min, IS: No return, FF: No blow FS: No return.					

Recovery - Total Feet	5	GIP	—	Ft. in DC	—	Ft. in DP	5
Rec.	5	Feet of	mud some oil spots	%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	111	°F Gravity	—	°API D @	—	°F Corrected Gravity	— °API
RW	—	@	— °F	Chlorides	— ppm Recovery	—	Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2070	PSI	Recorder No.	6772	Test	1000.00
(B) First Initial Flow Pressure			11	PSI	(depth)	4201	Jars	
(C) First Final Flow Pressure			13	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			1525	PSI	(depth)	4229	Circ Sub	X N/C
(E) Second Initial Flow Pressure			13	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			15	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1106	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2050	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

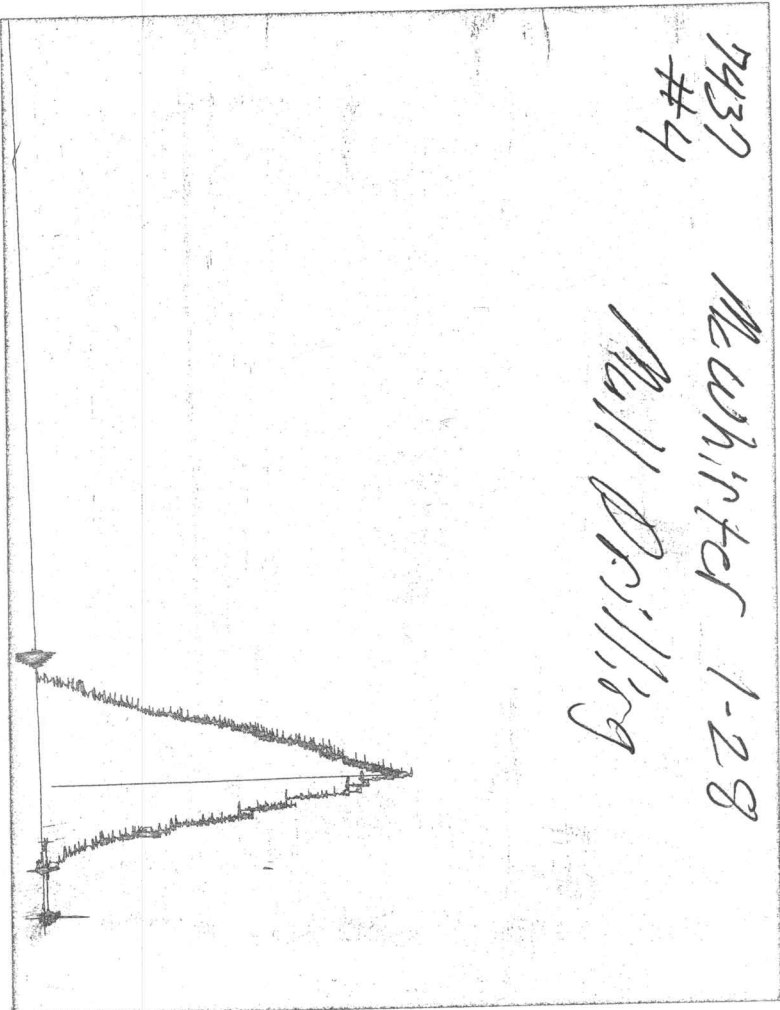
Our Representative [Signature]

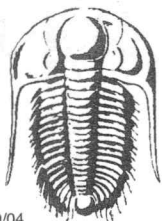
Final Flow	30
Final Shut-In	60
T-On Location	2:45
T-Started	3:17
T-Open	5:05
T-Pulled	7:15
T-Out	9:10

Ruined Packer	
Mileage	64-80.00
Sub Total:	1180
Std. By	[Signature]
Other	
Total:	

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23139

9/04

Test Ticket

Well Name & No.	McWhirter 1-28	Test No.	5	Date	3-25-06
Company	Mull Drilling Company, INC	Zone Tested	Lansing-L - Meriton		
Address	P.O. Box 2758 Wichita, KS 67201	Elevation	2732	KB	2723 GL
Co. Rep / Geo.	Kevin Kessler	Cont.	Duke 4	Est. Ft. of Pay	Por. %
Location: Sec.	28	Twp.	17S	Rge.	28W Co. Lane State KS
No. of Copies		Disbtribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	4235	4320	Initial Str Wt./Lbs.	40,000	Unseated Str Wt./Lbs.	40,000
Anchor Length		85	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	65,000
Top Packer Depth		4230	Tool Weight	1500		
Bottom Packer Depth		4235	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4320	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.1	LCM 0	Vis. 55	WL 8.0	Drill Pipe Size 4 1/2 x H	Ft. Run 4246
Blow Description	IF: Surface blow built to 2 in 10 min. IS: NO return, FF: 1/4 blow built to 6 1/2 in 60 min. FS: NO return,					

Recovery - Total Feet	90	GIP	—	Ft. in DC	—	Ft. in DP	90
Rec.	30	Feet of	Mud	%gas	%oil	%water	100% mud
Rec.	60	Feet of	AWCM	%gas	%oil	2	%water 98 %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 2000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2100	PSI	Recorder No.	6772	Test	x 1100.00
(B) First Initial Flow Pressure			13	PSI	(depth)	4236	Jars	
(C) First Final Flow Pressure			23	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			1180	PSI	(depth)	4319	Circ Sub	x N/C
(E) Second Initial Flow Pressure			25	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			69	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1179	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2085	PSI	Initial Shut-In	30	Shale Packer	

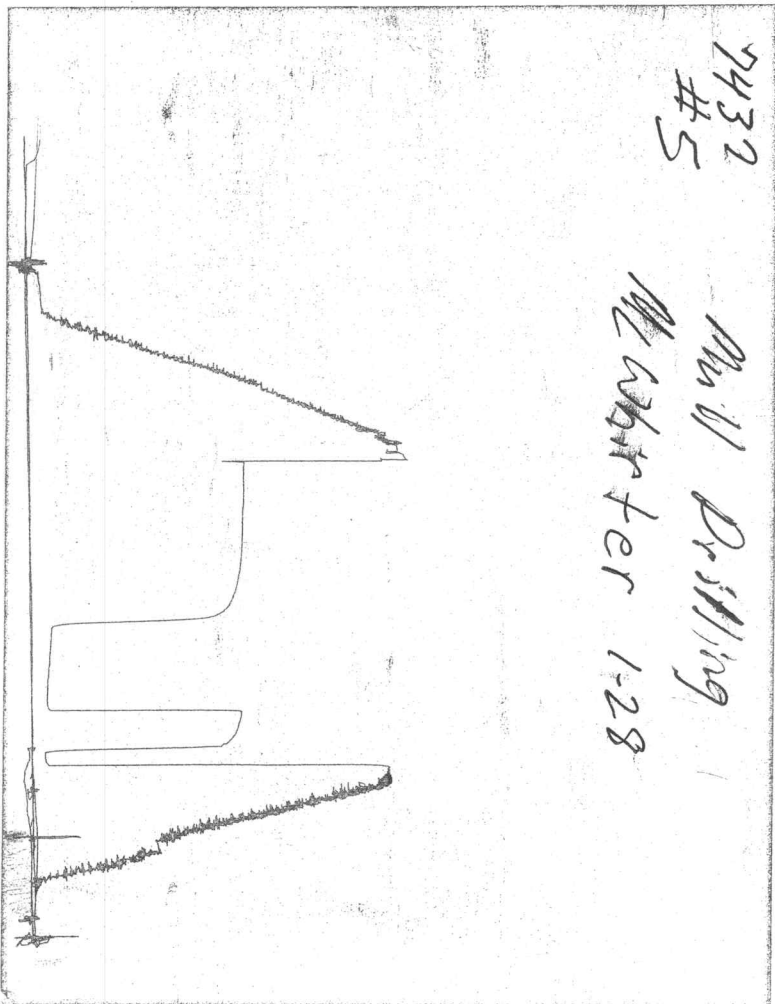
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

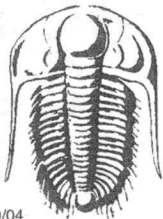
Approved By Kevin Kessler
Our Representative [Signature]

Final Flow	60	Final Shut-In	120
T-On Location	9:10 P.M.	T-Started	9:54 P.M.
T-Open	11:52 P.M.	T-Pulled	3:32 A.M.
T-Out	6:20 A.M.		
Mileage	64-80.00	Sub Total:	1180
Std. By		Other	
Total:			

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23140

9/04

Test Ticket

Well Name & No.	McWhirter 1-28	Test No.	6	Date	3-27-06
Company	Mull Drilling Company, Inc	Zone Tested	Ft. Scott - Cherokee		
Address	P.O. Box 2758 Wichita, KS 67201	Elevation	2732	KB	2723 GL
Co. Rep / Geo.	Kevin Kessler	Cont.	Duke 4	Est. Ft. of Pay	Por. %
Location: Sec.	28	Twp.	17S	Rge.	28W Co. 49NE State 15S
No. of Copies	Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)				

Interval Tested	4455	4555	Initial Str Wt./Lbs.	40,000	Unseated Str Wt/Lbs.	40,000
Anchor Length		100	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	60,000
Top Packer Depth		4450	Tool Weight	1500		
Bottom Packer Depth		4455	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4555	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.3	LCM 1	Vis. 42	WL 8.0	Drill Pipe Size 4 1/2 XH	Ft. Run 4442
Blow Description	IF: 1/4 blow died in 9 min. IS: No return. FF: No blow. FS: No return.					

Recovery - Total Feet	10	GIP	—	Ft. in DC	—	Ft. in DP	10
Rec.	10	Feet of	mud	%gas	%oil	%water	100% mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	116	°F Gravity	—	°API D @	—	°F Corrected Gravity	— °API
RW	—	@	— °F	Chlorides	— ppm	Recovery	— Chlorides 2800 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2219	PSI	Recorder No.	6772	Test x	1100.00
(B) First Initial Flow Pressure			16	PSI	(depth)	4456	Jars x	250.00
(C) First Final Flow Pressure			17	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			777	PSI	(depth)	4554	Circ Sub x	N/C
(E) Second Initial Flow Pressure			18	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			18	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			635	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2195	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 [Signature]

Final Flow	30		
Final Shut-In	60		
T-On Location	6:10		
T-Started	7:05		
T-Open	9:20		
T-Pulled	11:30		
T-Out	13:25		
Shale Packer			
Ruined Packer	200.00		
Mileage	64-80.00		
Sub Total:	1630		
Std. By			
Other			
Total:			

CHART PAGE

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

