

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

29 17s 28w Lane KS

Muffitt 1-29

Start Date: 2006.04.04 @ 09:50:09

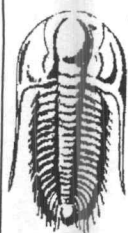
End Date: 2006.04.04 @ 15:38:03

Job Ticket #: 23141 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

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23141

DST#: 1

Test Start: 2006.04.04 @ 09:50:09

GENERAL INFORMATION:

Formation: **Lansing H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:35:49
 Time Test Ended: 15:38:03

Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35

Interval: **4060.00 ft (KB) To 4135.00 ft (KB) (TVD)**
 Total Depth: 4135.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2702.00 ft (KB)
 2693.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 25.26 psig @ 4061.00 ft (KB)

Start Date: 2006.04.04

End Date:

2006.04.04

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 09:50:09

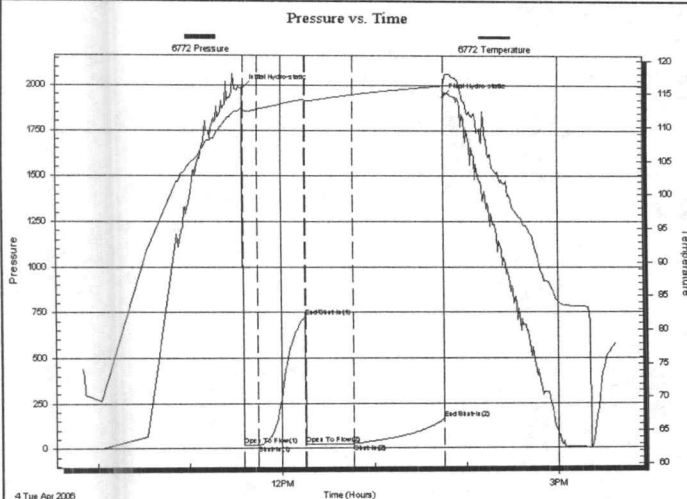
End Time:

15:38:03

Time On Btm: 2006.04.04 @ 11:35:19

Time Off Btm: 2006.04.04 @ 13:45:19

TEST COMMENT: IF 1/4 Blow built to 1/2 died to weak Surf Blow
 IS No return
 FF Weak Surf Blow never built
 FS No return



PRESSURE SUMMARY

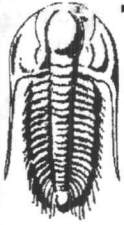
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1982.75	112.81	Initial Hydro-static
1	16.21	112.44	Open To Flow (1)
10	19.26	112.63	Shut-In(1)
41	726.98	114.11	End Shut-In(1)
41	21.40	113.94	Open To Flow(2)
72	25.26	114.82	Shut-In(2)
130	161.37	116.18	End Shut-In(2)
130	1932.80	117.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
24.00	OCM 5%O 95%M	0.34
1.00	Free Oil 100%O	0.01
0.00		0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23141

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.04.04 @ 09:50:09

Tool Information

Drill Pipe:	Length: 4058.00 ft	Diameter: 3.80 inches	Volume: 56.92 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: 56000.00 lb
			<u>Total Volume: 56.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4060.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 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			4041.00	
Shut In Tool	5.00			4046.00	
Hydraulic tool	5.00			4051.00	
Packer	5.00			4056.00	20.00 Bottom Of Top Packer
Packer	4.00			4060.00	
Stubb	1.00			4061.00	
Recorder	0.00	6772	Inside	4061.00	
Perforations	5.00			4066.00	
Change Over Sub	1.00			4067.00	
Drill Pipe	62.00			4129.00	
Change Over Sub	1.00			4130.00	
Recorder	0.00	7437	Outside	4130.00	
Bullnose	5.00			4135.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23141

DST#: 1

ATTN: Kevin Kessler

Test Start: 2006.04.04 @ 09:50:09

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:

bbf

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
24.00	OCM 5%O 95%M	0.337
1.00	Free Oil 100%O	0.014
0.00		0.000

Total Length: 25.00 ft

Total Volume: 0.351 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

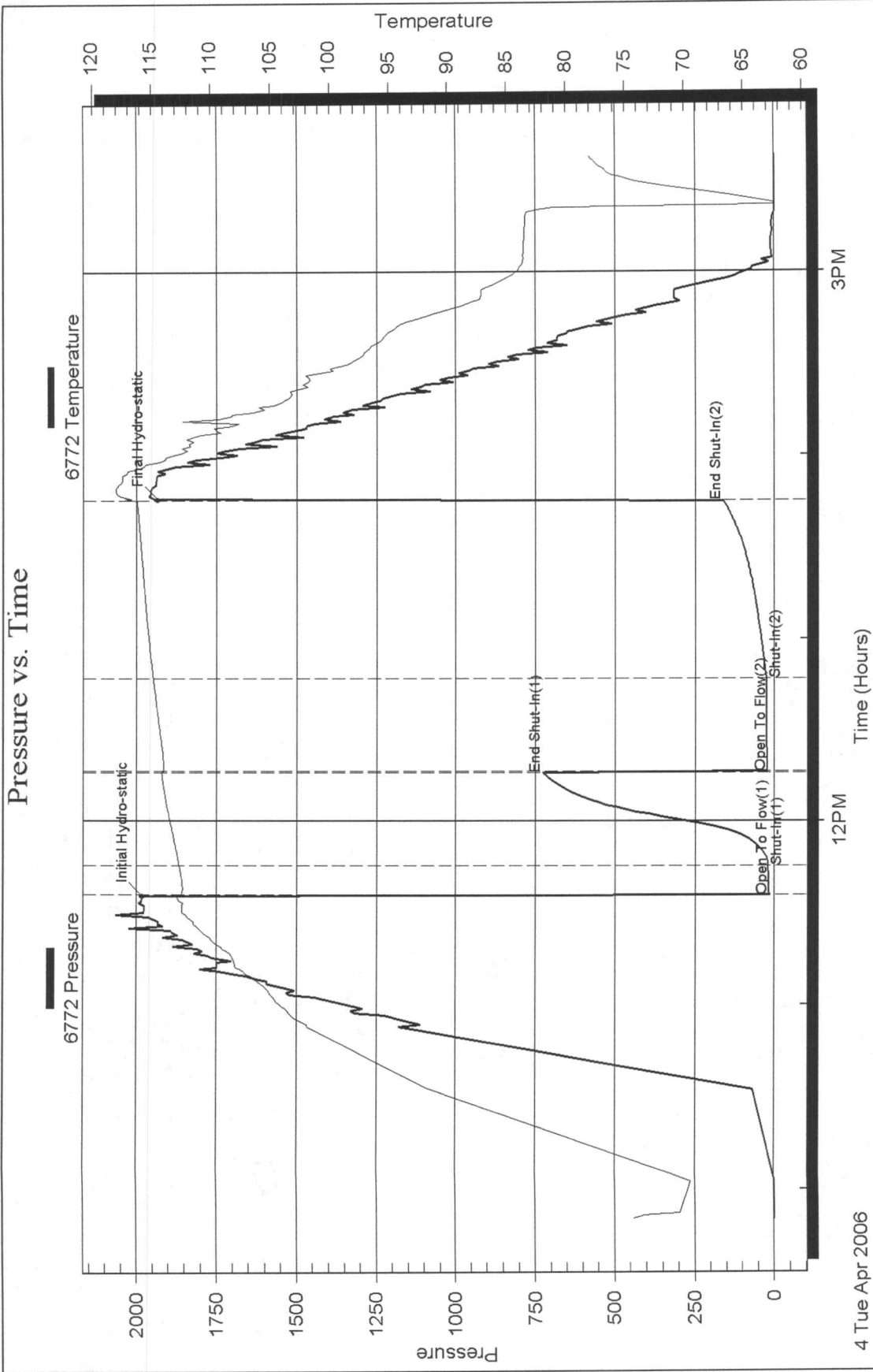
Inside

Mull Drilling Company

29 17s 28w Lane KS

DST Test Number: 1

Pressure vs. Time

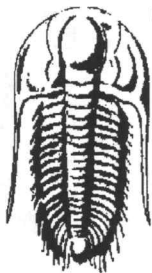


4 Tue Apr 2006

Trilobite Testing, Inc

Ref. No: 23141

Printed: 2006.04.11 @ 09:59:49 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

29 17s 28w Lane KS

Muffitt 1-29

Start Date: 2006.04.05 @ 01:52:28

End Date: 2006.04.05 @ 10:53:08

Job Ticket #: 23142 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

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23142

DST#: 2

Test Start: 2006.04.05 @ 01:52:28

GENERAL INFORMATION:

Formation: **Lansing J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:38

Time Test Ended: 10:53:08

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4130.00 ft (KB) To 4185.00 ft (KB) (TVD)**

Reference Elevations: 2702.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

2693.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 404.63 psig @ 4131.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.04.05

End Date:

2006.04.05

Last Calib.: 1899.12.30

Start Time: 01:52:28

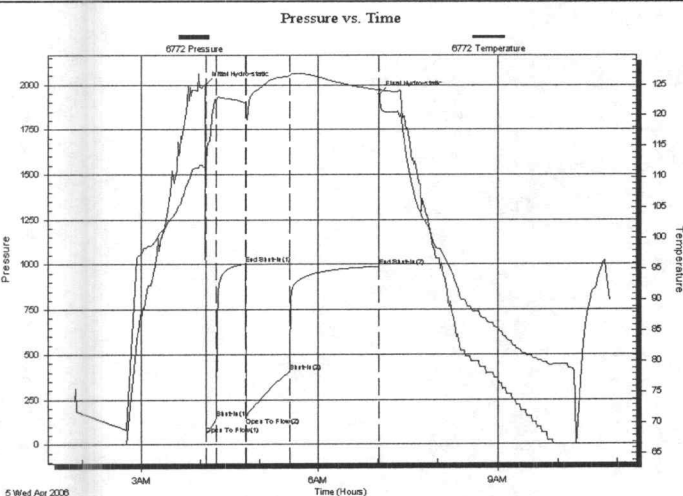
End Time:

10:53:08

Time On Btm: 2006.04.05 @ 04:05:23

Time Off Btm: 2006.04.05 @ 07:01:07

TEST COMMENT: IF 1/4 Blow BOB in 2 1/2 min
IS Surf Blow built to 6 in 30 min
FF 1/4 Bow BOB in 2 1/2 min
FS Surf Bow BOB in 25 min Died in 80 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.18	111.56	Initial Hydro-static
1	53.39	111.08	Open To Flow (1)
11	145.82	122.42	Shut-In (1)
41	1003.79	122.04	End Shut-In (1)
42	153.85	120.61	Open To Flow (2)
86	404.63	126.43	Shut-In (2)
176	988.98	124.11	End Shut-In (2)
176	1946.45	124.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW 90%W 10%M	0.87
124.00	WMCGO 10%G 70%O 10%W 10%M	1.74
124.00	MCGO 20%G 70%O 10%M	1.74
558.00	GO 10%G 90%O	7.83
186.00	GO30%G 70%O	2.61
0.00		0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23142

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.04.05 @ 01:52:28

Tool Information

Drill Pipe:	Length: 4121.00 ft	Diameter: 3.80 inches	Volume: 57.81 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
			<u>Total Volume: 57.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4130.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4111.00	
Shut In Tool	5.00			4116.00	
Hydraulic tool	5.00			4121.00	
Packer	5.00			4126.00	20.00 Bottom Of Top Packer
Packer	4.00			4130.00	
Stubb	1.00			4131.00	
Recorder	0.00	6772	Inside	4131.00	
Perforations	17.00			4148.00	
Change Over Sub	1.00			4149.00	
Drill Pipe	30.00			4179.00	
Change Over Sub	1.00			4180.00	
Recorder	0.00	7437	Outside	4180.00	
Bullnose	5.00			4185.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23142

DST#: 2

ATTN: Kevin Kessler

Test Start: 2006.04.05 @ 01:52:28

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:

29000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCW 90%W 10%M	0.870
124.00	WMCGO 10%G 70%O 10%W 10%M	1.739
124.00	MCGO 20%G 70%O 10%M	1.739
558.00	GO 10%G 90%O	7.827
186.00	GO30%G 70%O	2.609
0.00		0.000

Total Length: 1054.00 ft

Total Volume: 14.784 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

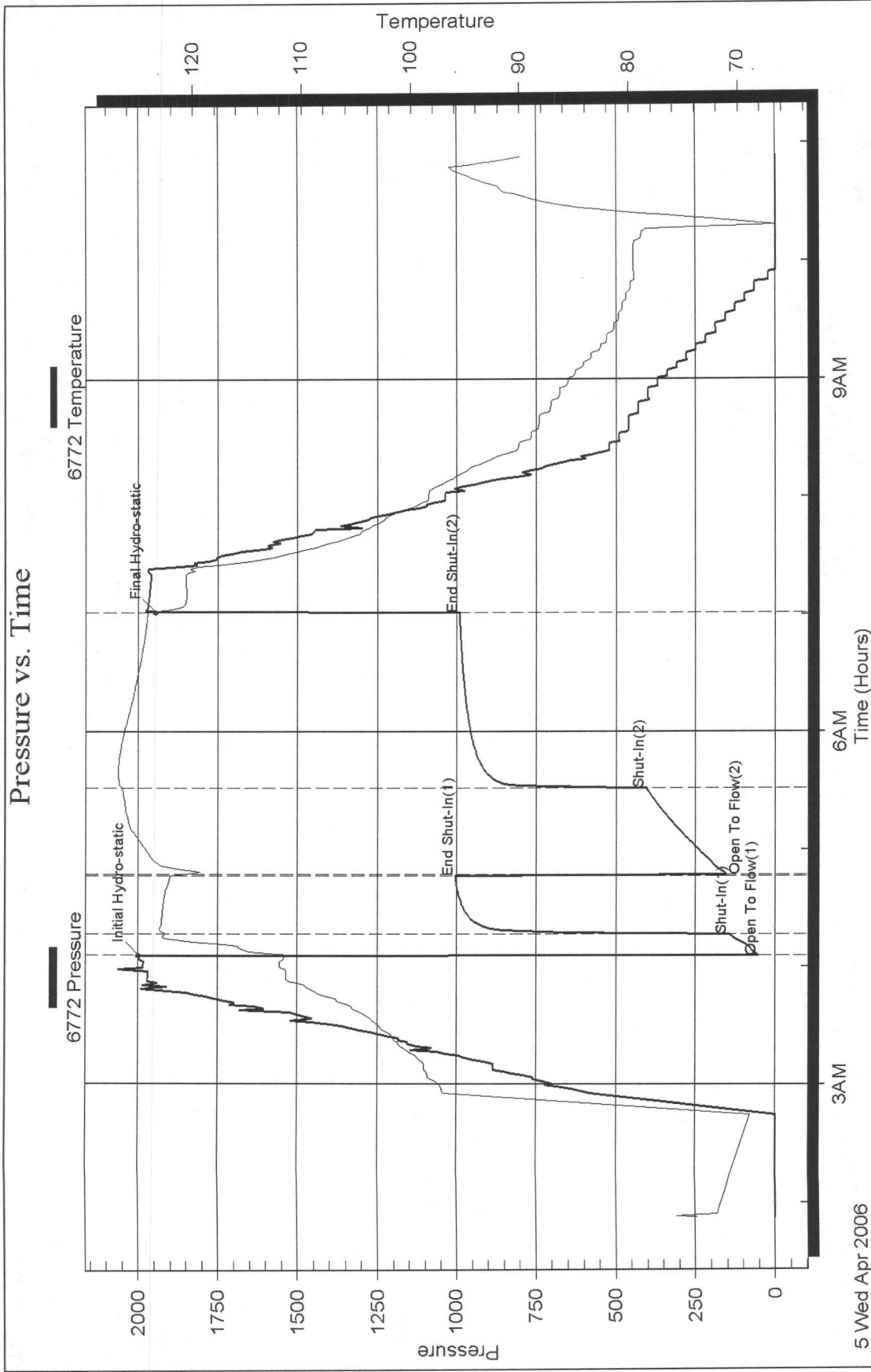
Serial #: 6772

Inside

Mull Drilling Company

29 17s 28w Lane KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

29 17s 28w Lane KS

Muffitt 1-29

Start Date: 2006.04.05 @ 22:05:35

End Date: 2006.04.06 @ 09:07:15

Job Ticket #: 23143 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company

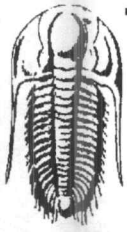
Muffitt 1-29

29 17s 28w Lane KS

DST # 3

Lansing L- Middle cr

2006.04.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23143

DST#: 3

Test Start: 2006.04.05 @ 22:05:35

GENERAL INFORMATION:

Formation: **Lansing L- Middle cr**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:57:15

Time Test Ended: 09:07:15

Interval: **4190.00 ft (KB) To 4240.00 ft (KB) (TVD)**

Total Depth: 4240.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2702.00 ft (KB)

2693.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 306.58 psig @ 4191.00 ft (KB)

Start Date: 2006.04.05

End Date:

2006.04.06

Start Time: 22:05:35

End Time:

09:07:15

Capacity: 7000.00 psig

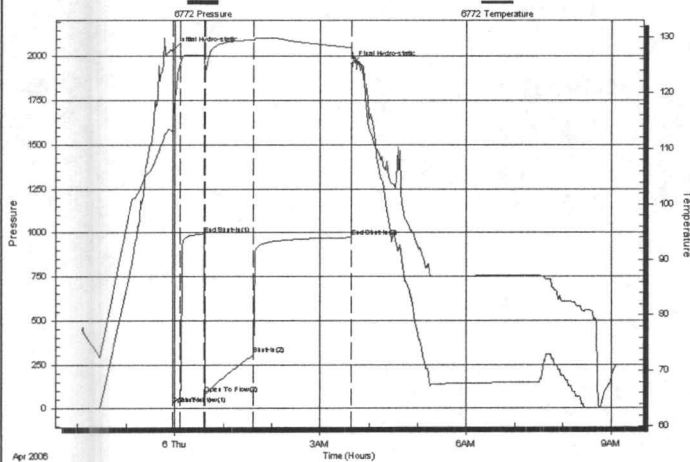
Last Calib.: 1899.12.30

Time On Btm: 2006.04.05 @ 23:57:00

Time Off Btm: 2006.04.06 @ 03:38:14

TEST COMMENT: IF 1/4 Blow BOB in 3 min
IS Surf Blow built to 3 1/2 in 30 min
FF 1/4 Blow BOB in 5 min
FS Surf Blow built to 9 in 120 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.99	113.24	Initial Hydro-static
1	25.51	112.77	Open To Flow (1)
11	73.43	125.61	Shut-In (1)
40	993.48	126.73	End Shut-In (1)
41	80.97	123.58	Open To Flow (2)
101	306.58	129.50	Shut-In (2)
221	971.84	128.10	End Shut-In (2)
222	1953.79	128.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW TR Oil 80%W 20%M	1.74
62.00	WMCGO 10%G 40%O 10%W 40%M	0.87
124.00	MCGO 20%G 75%O 5%M	1.74
248.00	GO 20%G 80%O	3.48
186.00	GO 10%G 90%O	2.61
0.00		0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23143

DST#: 3

Test Start: 2006.04.05 @ 22:05:35

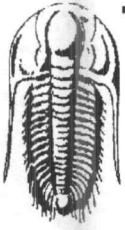
Tool Information

Drill Pipe:	Length: 4183.00 ft	Diameter: 3.80 inches	Volume: 58.68 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
			<u>Total Volume: 58.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4190.00 ft			Final 47000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4171.00	
Shut In Tool	5.00			4176.00	
Hydraulic tool	5.00			4181.00	
Packer	5.00			4186.00	20.00 Bottom Of Top Packer
Packer	4.00			4190.00	
Stubb	1.00			4191.00	
Recorder	0.00	6772	Inside	4191.00	
Perforations	10.00			4201.00	
Change Over Sub	1.00			4202.00	
Drill Pipe	32.00			4234.00	
Change Over Sub	1.00			4235.00	
Recorder	0.00	7437	Outside	4235.00	
Bullnose	5.00			4240.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23143

DST#: 3

ATTN: Kevin Kessler

Test Start: 2006.04.05 @ 22:05:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

59000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCW TR Oil 80%W 20%M	1.739
62.00	WMCGO10%G 40%O 10%W 40%M	0.870
124.00	MCGO 20%G 75%O 5%M	1.739
248.00	GO 20%G 80%O	3.479
186.00	GO10%G 90%O	2.609
0.00		0.000

Total Length: 744.00 ft Total Volume: 10.436 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

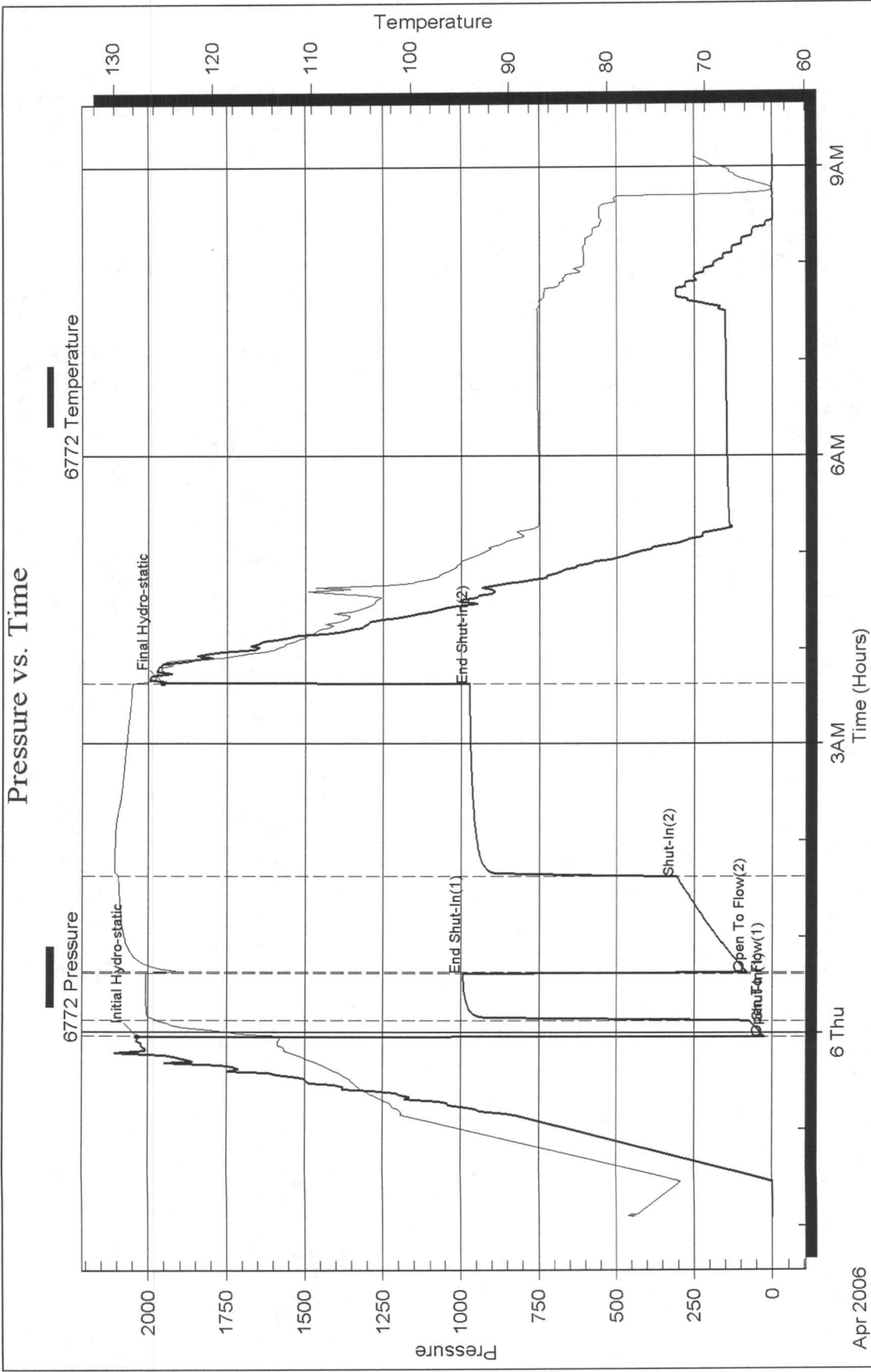
Inside

Mull Drilling Company

29 17s 28w Lane KS

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

29 17s 28w Lane KS

Muffitt 1-29

Start Date: 2006.04.06 @ 23:15:37

End Date: 2006.04.07 @ 10:37:47

Job Ticket #: 23144 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company

Muffitt 1-29

29 17s 28w Lane KS

DST # 4

Marrnton

2006.04.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23144

DST#: 4

Test Start: 2006.04.06 @ 23:15:37

GENERAL INFORMATION:

Formation: **Marmton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:11:02

Time Test Ended: 10:37:47

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4230.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Total Depth: 4330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2702.00 ft (KB)

2693.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772 Inside

Press@RunDepth: 645.34 psig @ 4231.00 ft (KB)

Start Date: 2006.04.06

End Date:

2006.04.07

Start Time: 23:15:37

End Time:

10:37:47

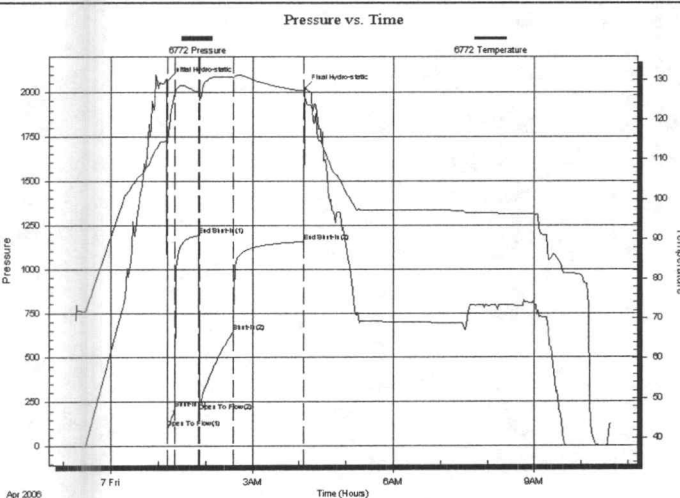
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2006.04.07 @ 01:10:47

Time Off Btm: 2006.04.07 @ 04:07:01

TEST COMMENT: IF 1/4 Blow BOB in 1 min
IS Surf Blow BOB in 14 min
FF 1/4 Blow BOB in 1 1/2 min
FS Surf Blow BOB in 10 min Gas to Surf in 75 min



PRESSURE SUMMARY

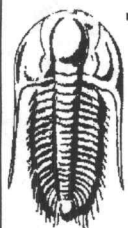
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.14	114.75	Initial Hydro-static
1	106.42	114.28	Open To Flow (1)
11	216.33	126.75	Shut-In(1)
41	1193.09	126.76	End Shut-In(1)
41	245.07	126.11	Open To Flow (2)
85	645.34	130.51	Shut-In(2)
176	1157.56	127.10	End Shut-In(2)
177	2019.77	126.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 40%G 10%O 50%M	1.74
1581.00	GO 30%G 70%O	22.18
0.00		0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23144

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.04.06 @ 23:15:37

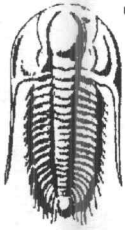
Tool Information

Drill Pipe:	Length: 4215.00 ft	Diameter: 3.80 inches	Volume: 59.13 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: 80000.00 lb
			<u>Total Volume: 59.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4230.00 ft			Final 55000.00 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			4211.00	
Shut In Tool	5.00			4216.00	
Hydraulic tool	5.00			4221.00	
Packer	5.00			4226.00	20.00 Bottom Of Top Packer
Packer	4.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	6772	Inside	4231.00	
Perforations	30.00			4261.00	
Change Over Sub	1.00			4262.00	
Drill Pipe	62.00			4324.00	
Change Over Sub	1.00			4325.00	
Recorder	0.00	7437	Outside	4325.00	
Bullnose	5.00			4330.00	100.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23144

DST#: 4

ATTN: Kevin Kessler

Test Start: 2006.04.06 @ 23:15:37

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: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 40%G 10%O 50%M	1.739
1581.00	GO 30%G 70%O	22.177
0.00		0.000

Total Length: 1705.00 ft

Total Volume: 23.916 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

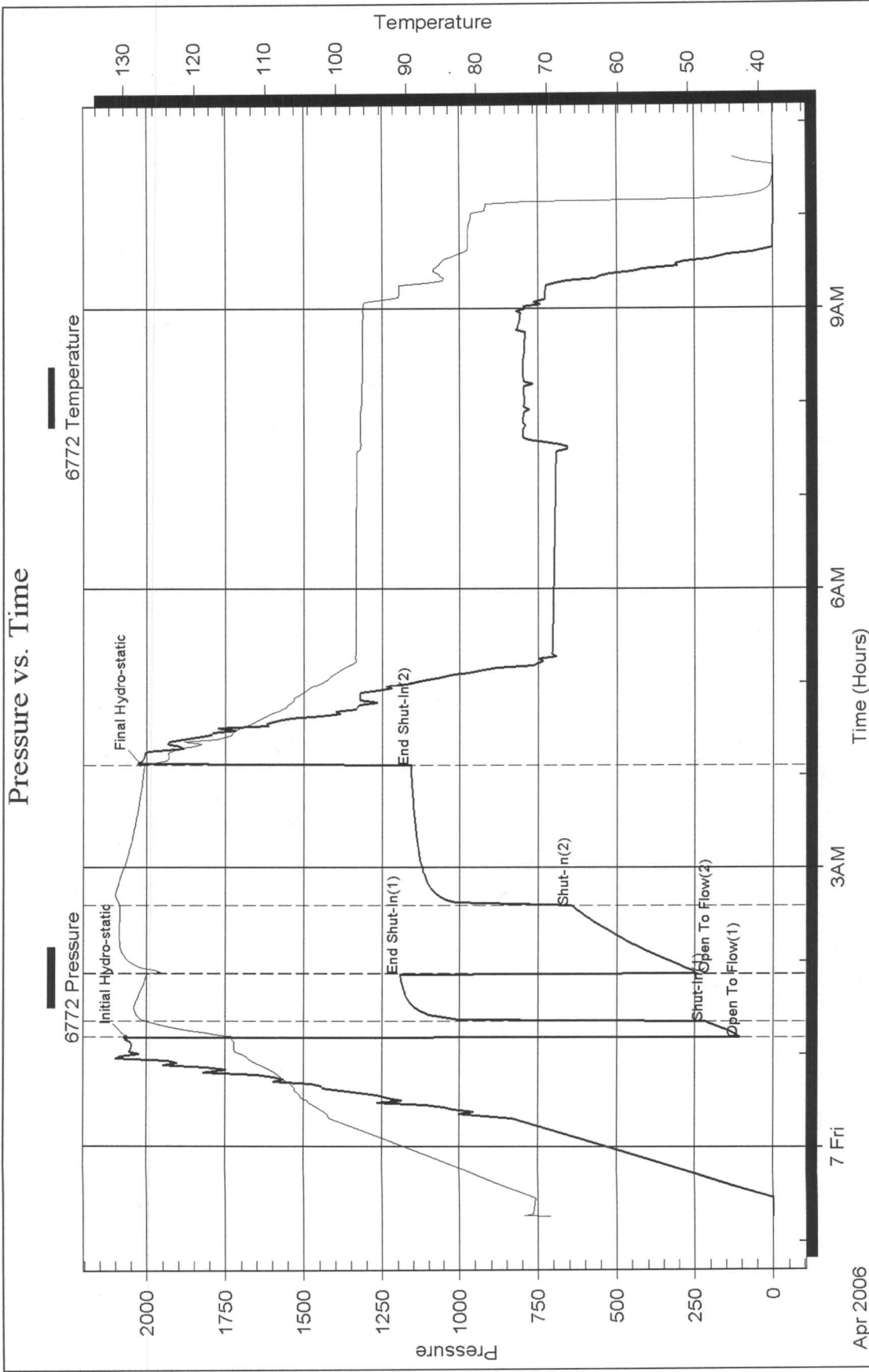
Serial #: 6772

Inside

Mull Drilling Company

29 17s 28w Lane KS

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

29 17s 28w Lane KS

Muffitt 1-29

Start Date: 2006.04.08 @ 00:59:05

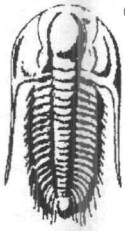
End Date: 2006.04.08 @ 12:59:45

Job Ticket #: 23145 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

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23145

DST#: 5

Test Start: 2006.04.08 @ 00:59:05

GENERAL INFORMATION:

Formation: **Pawnee/Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:51:15
 Time Test Ended: 12:59:45

Test Type: Conventional Bottom Hole
 Tester: Chuck Smith
 Unit No: 35

Interval: **4325.00 ft (KB) To 4430.00 ft (KB) (TVD)**
 Total Depth: 4430.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2702.00 ft (KB)
 2693.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6772

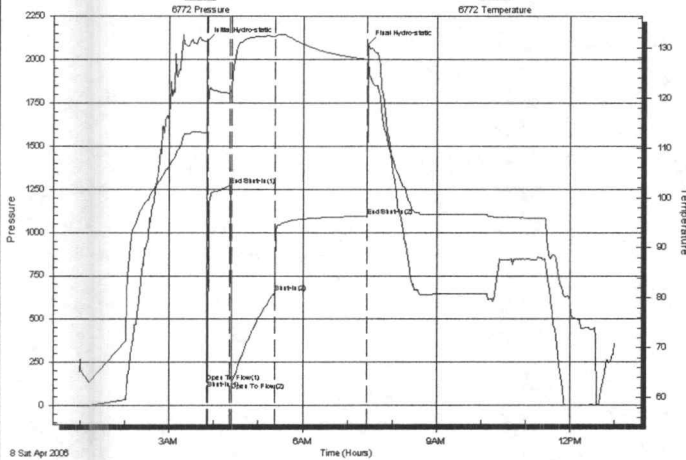
Inside

Press@RunDepth: 649.98 psig @ 4330.00 ft (KB)
 Start Date: 2006.04.08 End Date: 2006.04.08
 Start Time: 00:59:05 End Time: 12:59:45

Capacity: 7000.00 psig
 Last Calib.: 2006.04.08
 Time On Btm: 2006.04.08 @ 03:51:00
 Time Off Btm: 2006.04.08 @ 07:27:14

TEST COMMENT: IF Surf Blow died @ 6 min then BOB in 15 seconds over 10 min
 IS 1/8" return over 30 min
 FF BOB in 15 seconds over 60 min
 FS BOB in 6 min. Gas to Surf @ 20 min over 120 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.30	113.10	Initial Hydro-static
1	135.57	112.69	Open To Flow (1)
2	144.16	117.93	Shut-In(1)
31	1271.21	120.94	End Shut-In(1)
33	137.62	122.16	Open To Flow (2)
91	649.98	132.26	Shut-In(2)
216	1093.32	127.67	End Shut-In(2)
217	2086.63	127.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	GOCM 20%G 20%O 60%M	1.71
253.00	GMCO 10%G 20%M 70%O	3.55
1782.00	GO 50%G 50%O	25.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23145

DST#: 5

ATTN: Kevin Kessler

Test Start: 2006.04.08 @ 00:59:05

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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 60.46 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4325.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	125.00 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			4306.00	
Shut In Tool	5.00			4311.00	
Hydraulic tool	5.00			4316.00	
Packer	5.00			4321.00	20.00 Bottom Of Top Packer
Packer	4.00			4325.00	
Stubb	1.00			4326.00	
Perforations	4.00			4330.00	
Recorder	0.00	6772	Inside	4330.00	
Perforations	31.00			4361.00	
Change Over Sub	1.00			4362.00	
Drill Pipe	62.00			4424.00	
Change Over Sub	1.00			4425.00	
Recorder	0.00	7437	Inside	4425.00	
Bullnose	5.00			4430.00	105.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23145

DST#: 5

ATTN: Kevin Kessler

Test Start: 2006.04.08 @ 00:59:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	GOCM 20%G 20%O 60%M	1.711
253.00	GMCO 10%G 20%M 70%O	3.549
1782.00	GO 50%G 50%O	24.997

Total Length: 2157.00 ft Total Volume: 30.257 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2153 Gas in pipe

API; 37 gravity @ 50 degrees F = 38 API

Serial #: 6772

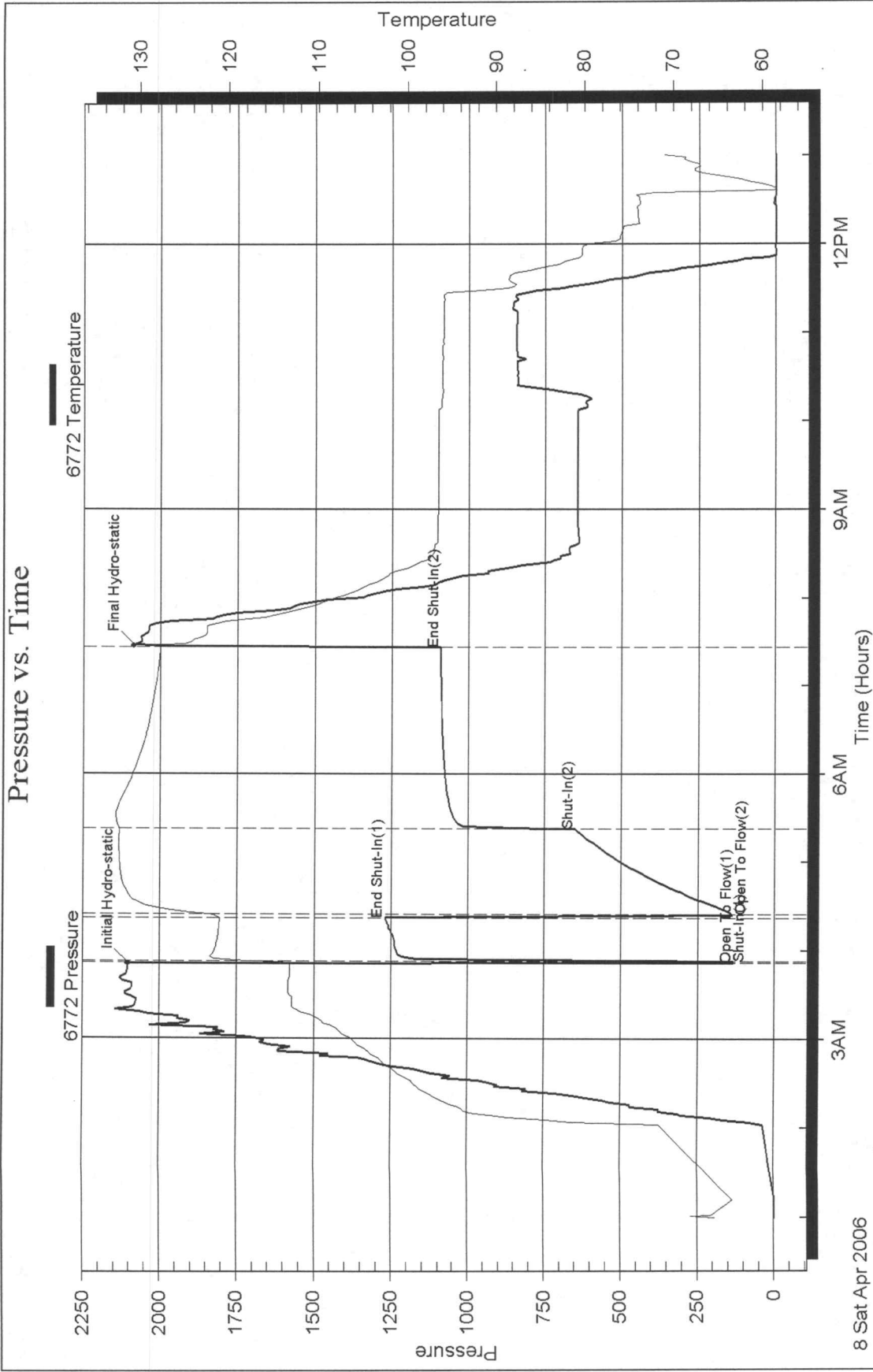
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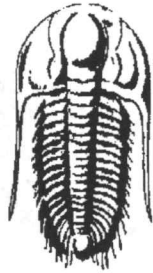
Mull Drilling Company

29 17s 28w Lane KS

DST Test Number: 5

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

29 17s 28w Lane KS

Muffitt 1-29

Start Date: 2006.04.09 @ 02:26:05

End Date: 2006.04.09 @ 10:50:59

Job Ticket #: 23146 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mull Drilling Company

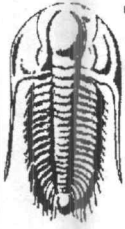
Muffitt 1-29

29 17s 28w Lane KS

DST # 6

Cherokee

2006.04.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Muffitt 1-29

29 17s 28w Lane KS

Job Ticket: 23146

DST#: 6

Test Start: 2006.04.09 @ 02:26:05

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:53:00
Time Test Ended: 10:50:59

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 35

Interval: **4437.00 ft (KB) To 4495.00 ft (KB) (TVD)**
Total Depth: 4135.04 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2702.00 ft (KB)
2693.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6772

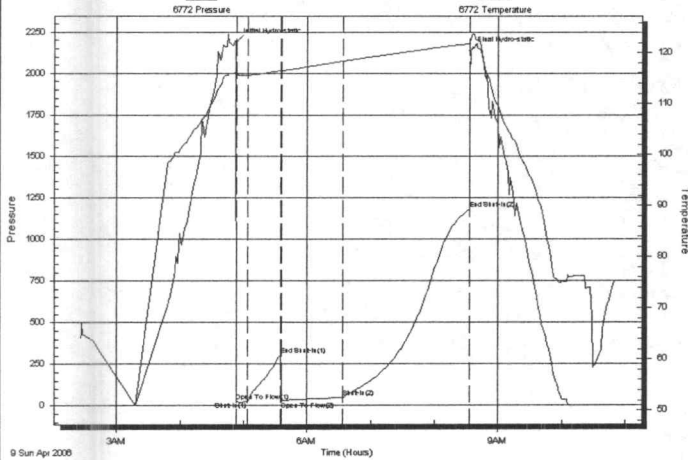
Inside

Press@RunDepth: 48.63 psig @ 4441.00 ft (KB)
Start Date: 2006.04.09 End Date: 2006.04.09
Start Time: 02:26:05 End Time: 10:50:59

Capacity: 7000.00 psig
Last Calib.: 2006.04.09
Time On Btm: 2006.04.09 @ 04:52:30
Time Off Btm: 2006.04.09 @ 08:33:29

TEST COMMENT: IF BOB @ 8 min over 10 min
IS No return over 30 min
FF BOB @ 3 min with gas to Surf @ 3 min over 60 min
FS No return over 120 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.59	116.18	Initial Hydro-static
1	24.25	115.71	Open To Flow (1)
11	24.39	115.58	Shut-In(1)
42	305.67	116.48	End Shut-In(1)
43	25.16	116.44	Open To Flow (2)
102	48.63	118.35	Shut-In(2)
221	1179.89	121.79	End Shut-In(2)
221	2137.63	122.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 15%G 25%O 60%M	0.84
60.00	O 100%O	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23146

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.04.09 @ 02:26:05

Tool Information

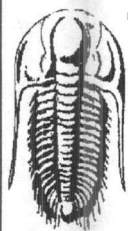
Drill Pipe:	Length: 4435.00 ft	Diameter: 3.80 inches	Volume: 62.21 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4437.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	83.00 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			4413.00	
Shut In Tool	5.00			4418.00	
Hydraulic tool	5.00			4423.00	
Jars	5.00			4428.00	
Packer	5.00			4433.00	25.00 Bottom Of Top Packer
Packer	4.00			4437.00	
Stubb	1.00			4438.00	
Perforations	3.00			4441.00	
Recorder	0.00	6772	Inside	4441.00	
Perforations	15.00			4456.00	
Change Over Sub	1.00			4457.00	
Drill Pipe	32.00			4489.00	
Change Over Sub	1.00			4490.00	
Recorder	0.00	7437	Inside	4490.00	
Bullnose	5.00			4495.00	58.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Muffitt 1-29

PO Box 2758
Wichita KS 67201

29 17s 28w Lane KS

Job Ticket: 23146

DST#: 6

ATTN: Kevin Kessler

Test Start: 2006.04.09 @ 02:26:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 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: 6.39 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2600.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 15%G 25%O 60%M	0.842
60.00	O 100%O	0.842

Total Length: 120.00 ft Total Volume: 1.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4315 feet of GIP

API 38 @ 60 degrees F = 38

Serial #: 6772

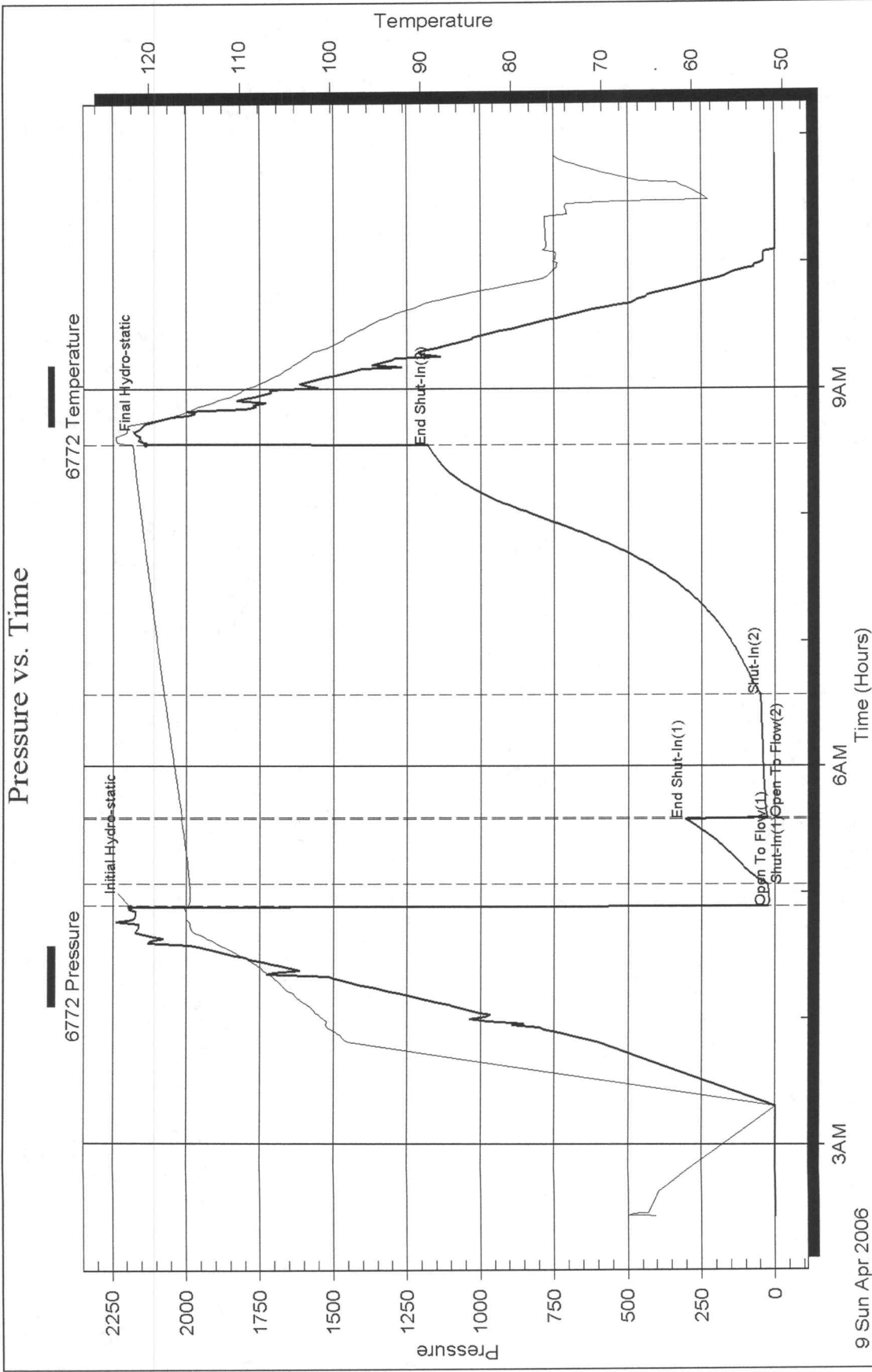
Inside

Mull Drilling Company

29 17s 28w Lane KS

DST Test Number: 6

Pressure vs. Time

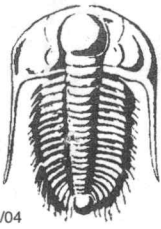


9 Sun Apr 2006

Trilobite Testing, Inc

Ref. No: 23146

Printed: 2006.04.11 @ 10:09:14 Page 5



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8611
No 23141

Test Ticket

Well Name & No. Muffitt 1-29 Test No. 1 Date 4-4-06
 Company Mull Drilling company, Inc Zone Tested LANsing H-I
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2702 KB 2693 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke Y Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 17S Rge. 28W Co. LANE State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4060 4135 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 46,000
 Anchor Length _____ 75 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 56,000
 Top Packer Depth _____ 4055 Tool Weight 1500
 Bottom Packer Depth _____ 4060 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4135 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM 8 Vis. 43 WL 7.2 Drill Pipe Size 4 1/2 X H Ft. Run 4058
 Blow Description IF: 14 blow built to 1/2 died to weak surface blow.
IS: No return.
FF: Surface blow never built.
FS: No return.

Recovery - Total Feet 25 GIP _____ Ft. in DC _____ Ft. in DP 25
 Rec. 1 Feet of Free oil %gas 100%oil _____ %water _____ %mud _____
 Rec. 24 Feet of OCM %gas 5 %oil _____ %water 95 %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 1400 ppm System

	AK-1	Alpine	Recorder No.	
(A) Initial Hydrostatic Mud	<u>2065</u>	PSI	<u>6772</u>	Test x <u>1100.00</u>
(B) First Initial Flow Pressure	<u>16</u>	PSI	(depth) <u>4061</u>	Jars _____
(C) First Final Flow Pressure	<u>19</u>	PSI	Recorder No. <u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>526</u>	PSI	(depth) <u>4134</u>	Circ Sub x <u>A/C</u>
(E) Second Initial Flow Pressure	<u>21</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>25</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>161</u>	PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1962</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By Kevin Kessler
 Our Representative [Signature]

Final Flow 30 Ruined Packer _____
 Final Shut-In 60 Mileage x70 = 87.50
 T-On Location 8:30 Sub Total: 1187.50
 T-Started 9:50 Std. By _____
 T-Open 11:36 Other _____
 T-Pulled 13:46 Total: _____
 T-Out 15:40

CHART PAGE

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

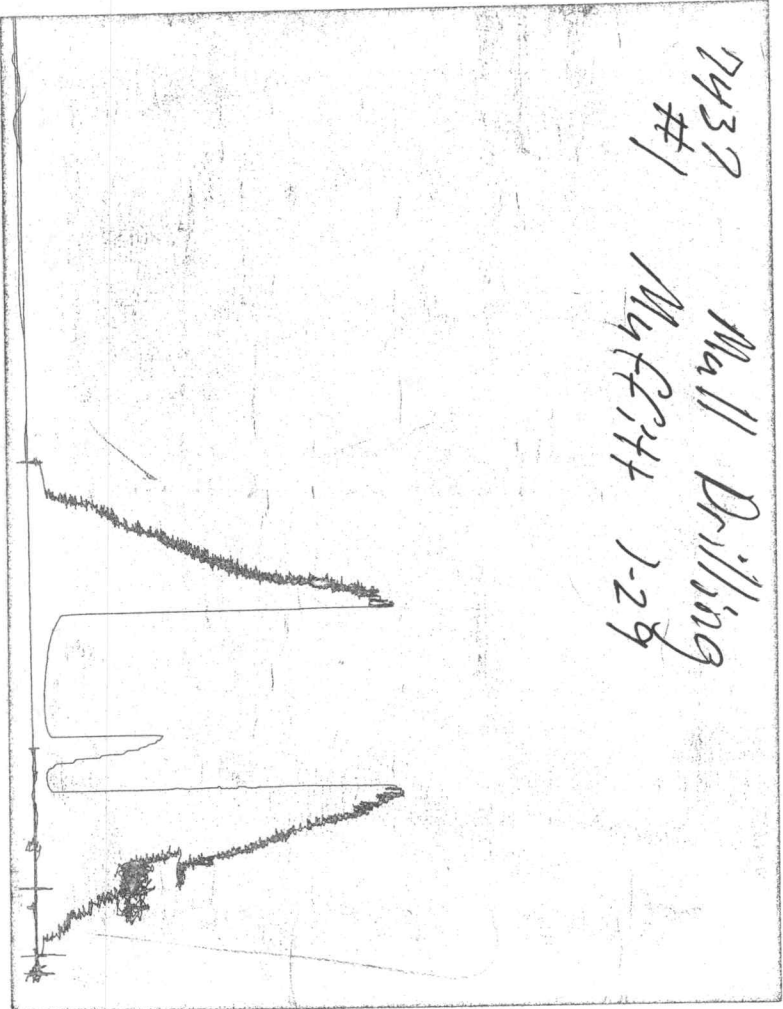
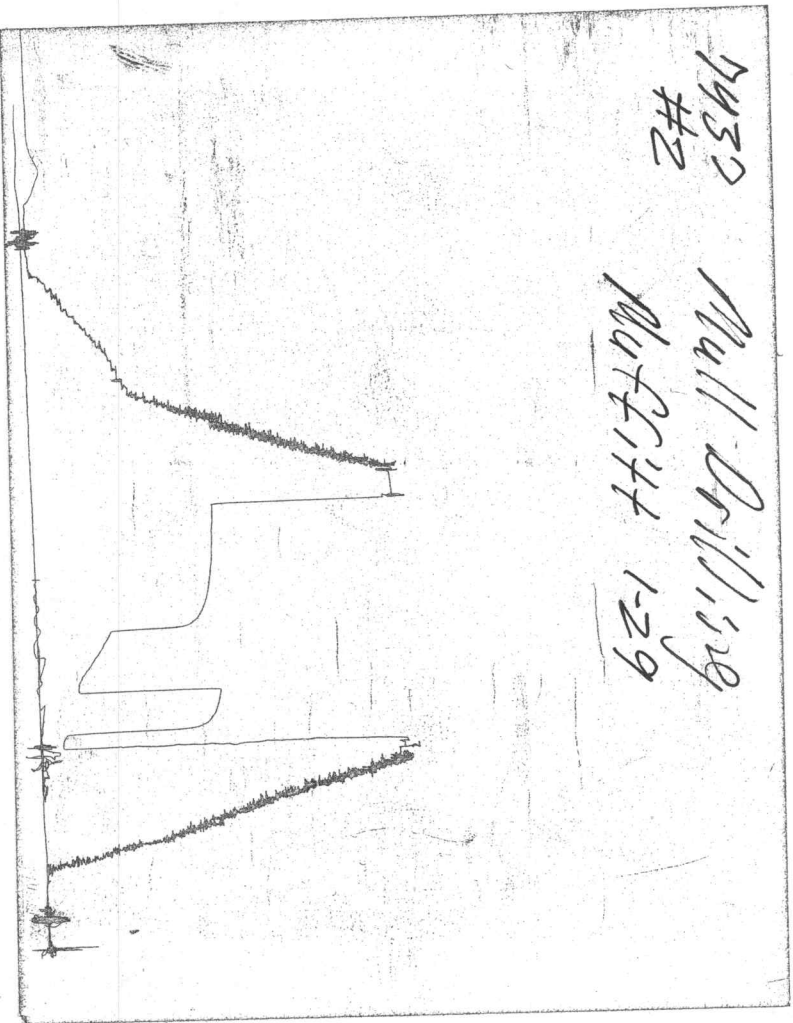
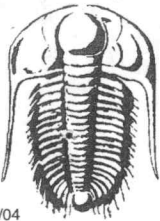


CHART PAGE

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





TRILOBITE TESTING INC.

No 23143

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Mullitt 1-29 Test No. 3 Date 4-5-06
 Company Mull Drilling company, INC Zone Tested Leasing L - Middle creek
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2702 KB 2693 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke 4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 17 S Rge. 28 W Co. LANE State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4190 4240 Initial Str Wt./Lbs. 44,000 Unseated Str Wt/Lbs. 47,000
 Anchor Length _____ 50 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth _____ 4185 Tool Weight 1500
 Bottom Packer Depth _____ 4190 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4240 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM Vis. 48 WL 2.2 Drill Pipe Size 4 1/2 XH Ft. Run 4183
 Blow Description IF: 1/4 blow Bob in 3 min,
IS: Surface blow built to 3 in 30 min,
FF: 1/4 blow Bob in 5 min,
FS: Surface blow built to 9 in 120 min,

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>744</u>	<u>682</u>	<u>—</u>	<u>744</u>
Rec. <u>186</u>	Feet of <u>90</u>	<u>10</u> %gas <u>90</u> %oil	%water %mud
Rec. <u>248</u>	Feet of <u>90</u>	<u>20</u> %gas <u>80</u> %oil	%water %mud
Rec. <u>124</u>	Feet of <u>mc90</u>	<u>20</u> %gas <u>75</u> %oil	%water <u>5</u> %mud
Rec. <u>62</u>	Feet of <u>wmc90</u>	<u>10</u> %gas <u>40</u> %oil	<u>10</u> %water <u>40</u> %mud
Rec. <u>124</u>	Feet of <u>mcw trace of oil</u>	%gas %oil <u>80</u> %water	<u>20</u> %mud
BHT <u>128</u>	°F Gravity <u>30</u>	°API D @ <u>70</u>	°F Corrected Gravity <u>29</u> °API
RW <u>.15</u>	@ <u>61</u> °F	Chlorides <u>59,000</u> ppm	Recovery <u>59,000</u> Chlorides <u>1608</u> ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2101</u> PSI	<u>6772</u>	<u>1100.00</u>	
(B) First Initial Flow Pressure	<u>25</u> PSI	(depth) <u>4191</u>	Jars _____	
(C) First Final Flow Pressure	<u>73</u> PSI	Recorder No. <u>7437</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>993</u> PSI	(depth) <u>4239</u>	Circ Sub <u>X N/C</u>	
(E) Second Initial Flow Pressure	<u>80</u> PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>306</u> PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>971</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>2000</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____	

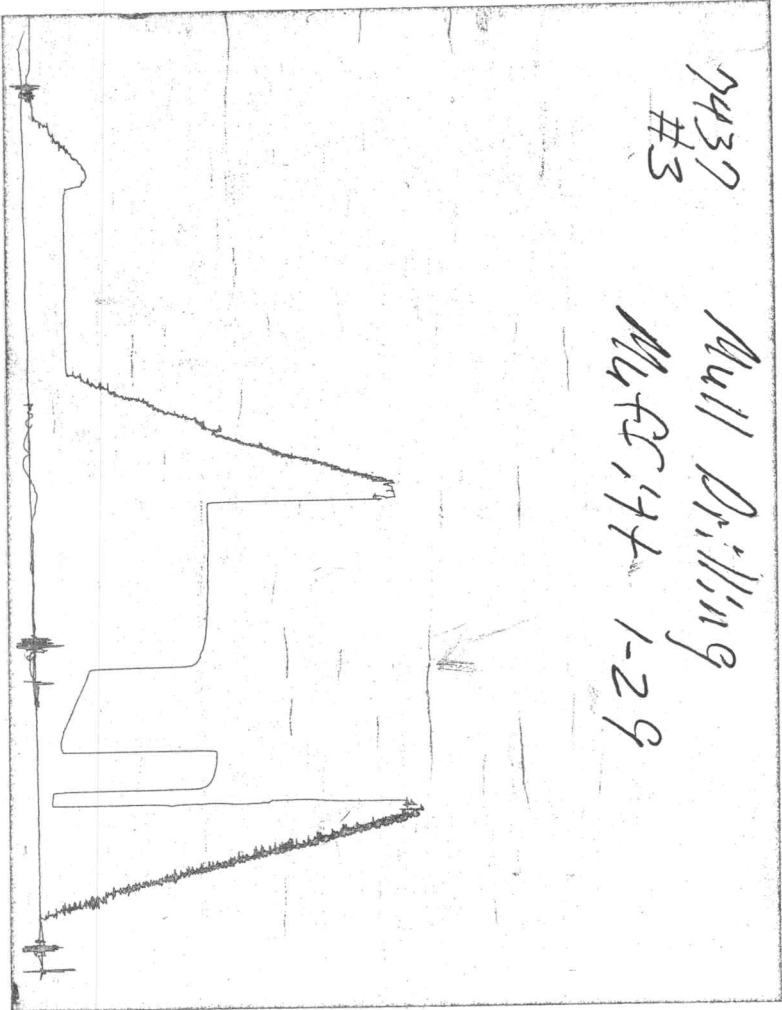
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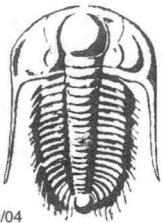
Approved By Kevin Kessler
 Our Representative [Signature]

Final Flow	<u>60</u>	Ruined Packer _____
Final Shut-In	<u>120</u>	Mileage <u>70 - 87.50</u>
T-On Location	<u>21:30</u>	Sub Total: <u>1187.50</u>
T-Started	<u>22:05</u>	Std. By <u>2.75</u> <u>137.50</u>
T-Open	<u>23:57</u>	Other _____
T-Pulled	<u>3:37</u>	Total: <u>\$1325</u>
T-Out	<u>9:10</u>	

CHART PAGE

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





TRILOBITE TESTING INC.

No 23144

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Muffitt 1-29 Test No. 4 Date 4-6-06
 Company Mull Drilling Company, Inc Zone Tested Martton
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2702 KB 2693 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke 4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 17S Rge. 28W Co. Line State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4230 4330 Initial Str Wt./Lbs. 47,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length _____ 100 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth _____ 4225 Tool Weight 1500
 Bottom Packer Depth _____ 4230 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4330 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.1 LCM 0 Vis. 50 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 4215
 Blow Description IF: 1/4 blow BOB in 1 min.
IS: surface blow BOB in 14 min.
FF: 1/4 blow BOB in 1 1/2 min.
FS: surface blow BOB in 10 min. 695 to surface in 75 min.

Recovery - Total Feet 1705 GIP _____ Ft. in DC _____ Ft. in DP 1705
 Rec. 1581 Feet of 90 30 %gas 70 %oil %water %mud
 Rec. 124 Feet of 90CM 40 %gas 10 %oil %water 50 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 127 °F Gravity 36 °API D @ 80 °F Corrected Gravity 36 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2098</u> PSI		<u>6772</u>	<u>1100.00</u>
(B) First Initial Flow Pressure	<u>106</u> PSI		<u>4231</u>	Jars _____
(C) First Final Flow Pressure	<u>216</u> PSI		<u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1193</u> PSI		<u>4329</u>	Circ Sub <u>X N/L</u>
(E) Second Initial Flow Pressure	<u>245</u> PSI			Sampler _____
(F) Second Final Flow Pressure	<u>645</u> PSI			Straddle _____
(G) Final Shut-In Pressure	<u>1157</u> PSI	Initial Opening <u>10</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2019</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____

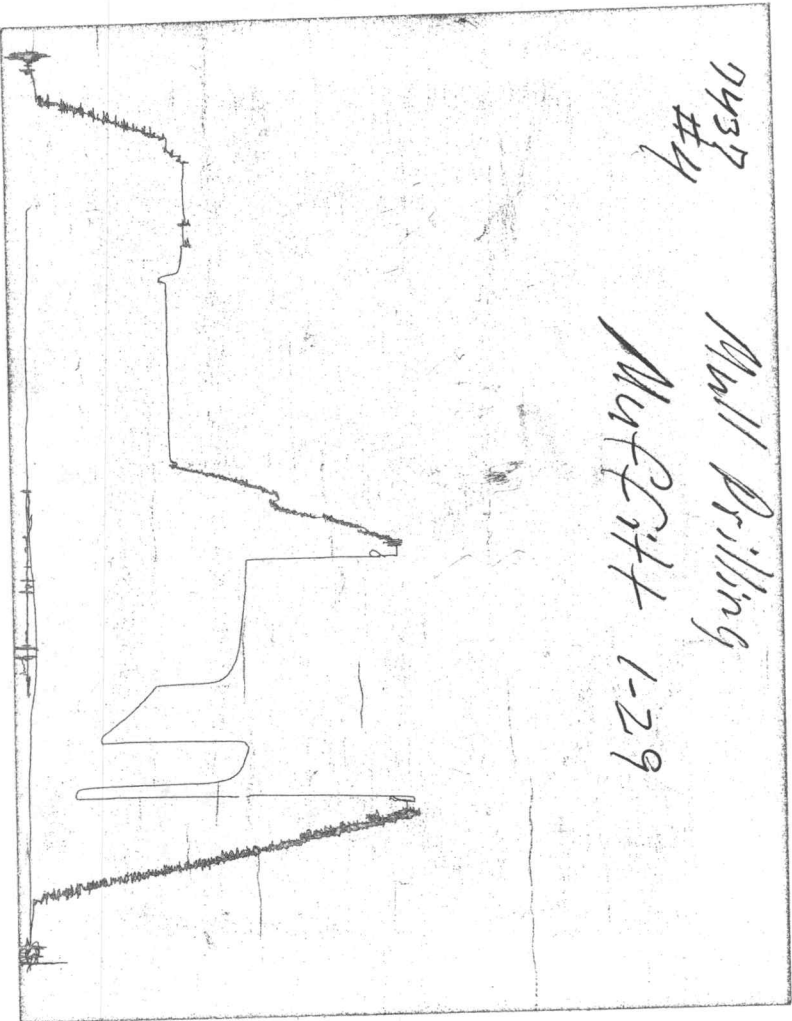
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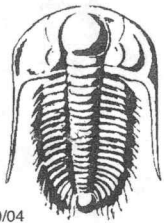
Approved By Kevin Kessler
 Our Representative [Signature]

Final Flow	<u>90</u>	Ruined Packer	_____
Final Shut-In	<u>22:45</u>	Mileage	<u>70 - 87.50</u>
T-On Location	<u>23:15</u>	Sub Total:	<u>1187.50</u>
T-Started	<u>1:10</u>	Std. By <u>X 3hrs 150.00</u>	
T-Open	<u>4:05</u>	Other	_____
T-Pulled	<u>10:45</u>	Total:	<u>1337.50</u>
T-Out			

CHART PAGE

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





TRILOBITE TESTING INC.

No 23145

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No. Muffitt 1-29 Test No. 5 Date 4-8-06
 Company Mull Drilling Zone Tested Pawnee / Fr. Scott
 Address POB 2759 Wichita, KS 67201 Elevation 2702 KB 2693 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke 4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 17s Rge. 28w Co. Lane State KS
 No. of Copies norm Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4325 to 4430 Initial Str Wt./Lbs. 48,000 Unseated Str Wt/Lbs. 58,000
 Anchor Length 105 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 4321 Tool Weight 1,500
 Bottom Packer Depth 4325 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4430 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.1 LCM Trace Vis. 51 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 4,310
 Blow Description IF: Surface blow died @ 6min. Then B.O.B. in 15 sec. over 10 min.
IS: 1/8" return over 30 min.
FF: B.O.B. in 15 seconds over 60 min.
FS: B.O.B. in 6 min. gastro surface @ 20 min. over 120 min.

Recovery - Total Feet 2157 GIP 2,153 Ft. in DC 0 Ft. in DP 2157
 Rec. 1,782 Feet of GO 50 %gas 50 %oil %water %mud
 Rec. 253 Feet of GMC0 10 %gas 70 %oil %water 20 %mud
 Rec. 122 Feet of GOCM 20 %gas 20 %oil %water 60 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 128 °F Gravity 37 °API D @ 50 °F Corrected Gravity 38 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,200 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2,135</u>	PSI	<u>6772</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>136</u>	PSI	(depth) <u>4330</u>	Jars _____
(C) First Final Flow Pressure	<u>144</u>	PSI	Recorder No. <u>13615</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1,271</u>	PSI	(depth) <u>4425</u>	Circ Sub <u>X</u> <u>50</u>
(E) Second Initial Flow Pressure	<u>138</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>650</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1,093</u>	PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2,081</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>70RT</u> <u>87.50</u>
			T-On Location <u>00:30am</u>	Sub Total: <u>1237.50</u>
			T-Started <u>00:59am</u>	Std. By <u>x3.5</u> <u>175.00</u>
			T-Open <u>03:42am</u>	Other _____
			T-Pulled <u>07:24am</u>	Total: <u>\$1412.50</u>
			T-Out <u>13:00pm</u>	

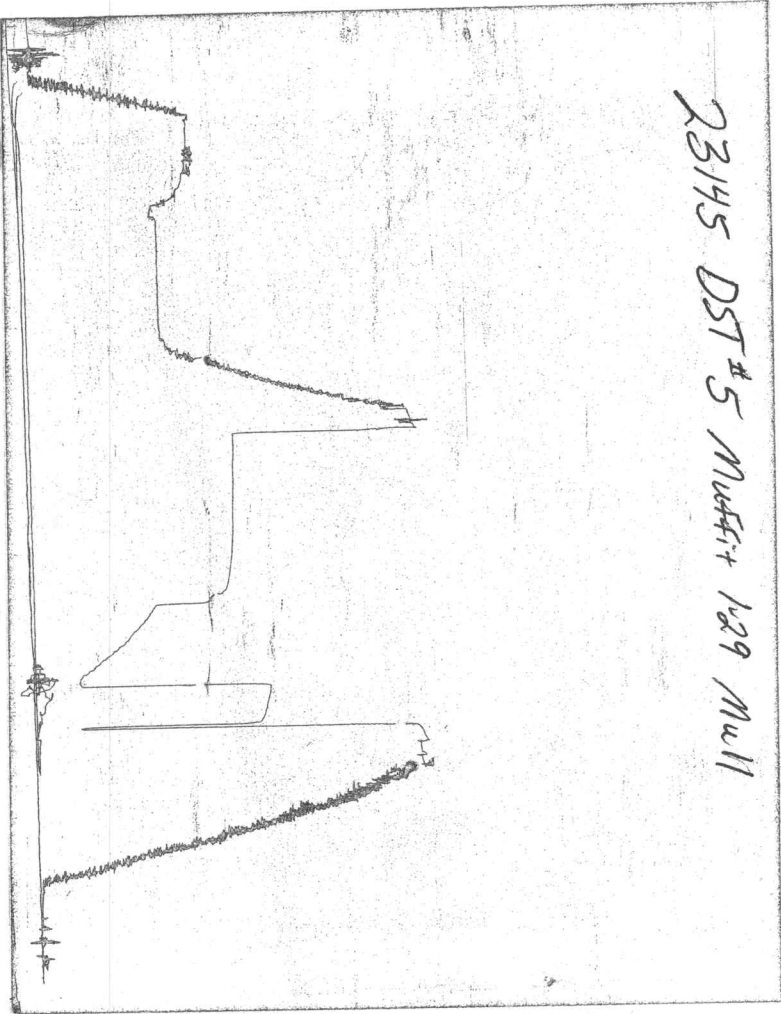
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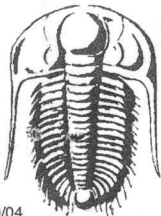
Approved By Kevin Kessler
 Our Representative Chuck Smith

CHART PAGE

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23145 DST #5 Muffin 129 Mu11





TRILOBITE TESTING INC.

No 23146

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Muff.# #1-29 Test No. 6 Date 4-9-06
 Company Mull Drilling Zone Tested Cherokee
 Address POB 2758 Wichita, KS 67201 Elevation 2702 KB 2693 GL
 Co. Rep / Geo. Kevin Kessler Cont. Duke 4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 29 Twp. 17s Rge. 28w Co. Lane State KS
 No. of Copies norm Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4437 TO 4495 Initial Str Wt./Lbs. 47,000 Unseated Str Wt/Lbs. 50,000
 Anchor Length 58 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4433 Tool Weight 1,800
 Bottom Packer Depth 4437 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4495 Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.2 LCM Trace Vis. 50 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 4435
 Blow Description IF B.O.B. @ 8min. over 10 min.
IS No return over 30 min.
FF B.O.B. @ 3min. gas to surface also @ 3min. over 60 min.
FS No return over 120 min.

Recovery - Total Feet 120 GIP 4,315 Ft. in DC 0 Ft. in DP 120
 Rec. 60 Feet of Oil %gas 100 %oil _____ %water _____ %mud _____
 Rec. 60 Feet of GOCM %gas 15 %oil 25 %water 60 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 122 °F Gravity 38 °API D @ 60 °F Corrected Gravity 38 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,600 ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud		<u>2,199</u> PSI	<u>6772</u>	<u>1100</u>
(B) First Initial Flow Pressure		<u>24</u> PSI	(depth) <u>4475</u>	Jars x <u>250</u>
(C) First Final Flow Pressure		<u>24</u> PSI	Recorder No. <u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>306</u> PSI	(depth) <u>4490</u>	Circ Sub x <u>N/C</u>
(E) Second Initial Flow Pressure		<u>25</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>49</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1,180</u> PSI	Initial Opening <u>10</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2,159</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer x <u>200</u>
			Final Shut-In <u>120</u>	Mileage <u>70</u> <u>87.50</u>
			T-On Location <u>01:30 am</u>	Sub Total: <u>1637.50</u>
			T-Started <u>02:26 am</u>	Std. By <u>12</u> <u>25</u>
			T-Open <u>04:53 am</u>	Other _____
			T-Pulled <u>08:34 am</u>	Total: <u>\$ 1062.50</u>
			T-Out <u>10:51 am</u>	

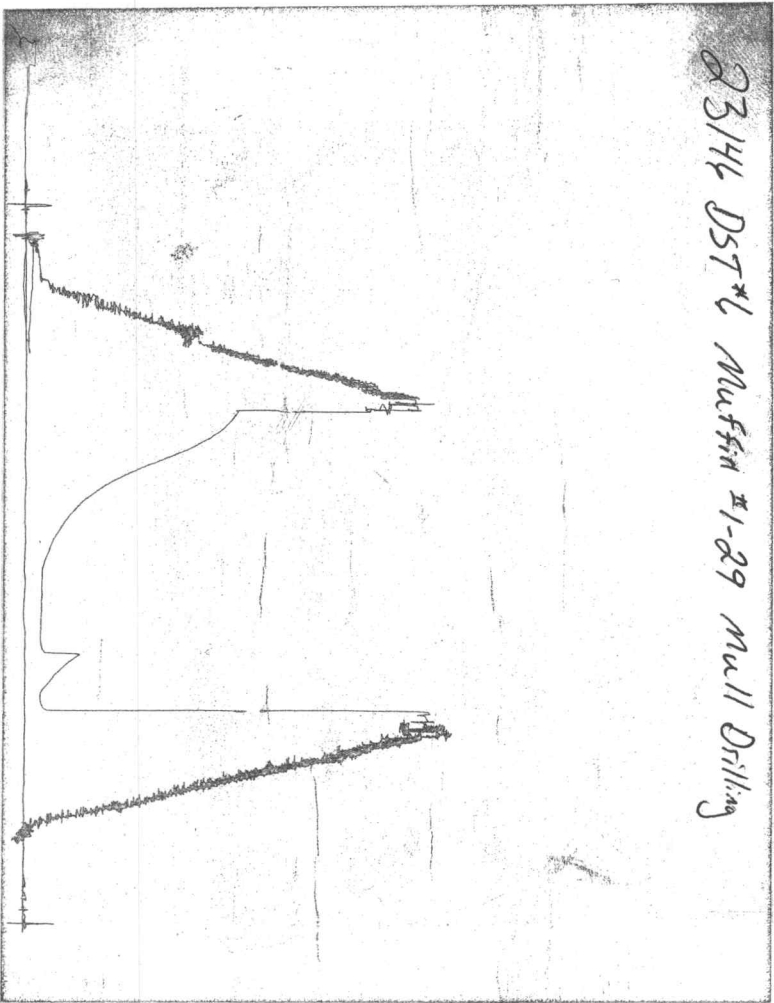
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Approved By Kevin Kessler
 Our Representative Chuck Smith

CHART PAGE

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

23/46 DST*6 Muffin #1-29 Mull Drilling



1
2
3