

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

4 16S 26W Ness KS

Thornburg B 1-4

Start Date: 2006.10.04 @ 16:35:13

End Date: 2006.10.04 @ 21:45:37

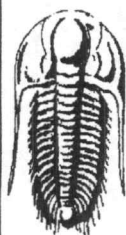
Job Ticket #: 26291

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: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26291

DST#: 1

Test Start: 2006.10.04 @ 16:35:13

GENERAL INFORMATION:

Formation: **Lansing H&I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:23:38

Time Test Ended: 21:45:37

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 36

Interval: **4064.00 ft (KB) To 4125.00 ft (KB) (TVD)**

Total Depth: 4125.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2616.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 Inside

Press@RunDepth: 54.71 psig @ 4065.00 ft (KB)

Start Date: 2006.10.04

End Date:

2006.10.04

Capacity: 7000.00 psig

Last Calib.: 2006.10.04

Start Time: 16:35:13

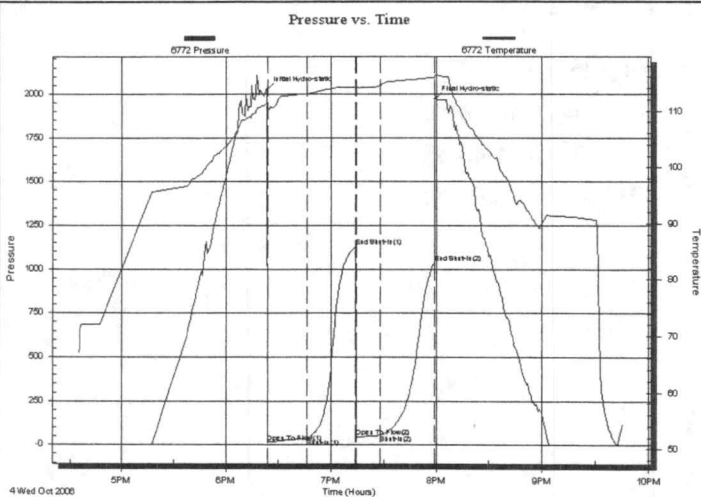
End Time:

21:45:37

Time On Btm: 2006.10.04 @ 18:23:23

Time Off Btm: 2006.10.04 @ 19:59:08

TEST COMMENT: IF 1/4 blow died to a surface blow
IS No return
FF Surface blow built to a 1/2 in 15 min.
FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.80	111.43	Initial Hydro-static
1	14.28	110.87	Open To Flow (1)
23	37.17	113.03	Shut-In (1)
51	1130.71	114.28	End Shut-In (1)
51	45.52	114.14	Open To Flow (2)
65	54.71	114.59	Shut-In (2)
96	1037.93	115.92	End Shut-In (2)
96	1969.08	116.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM 50%O 50%M	0.32

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26291

Test Start: 2006.10.04 @ 16:35:13

DST#: 1

Tool Information

Drill Pipe:	Length: 3954.00 ft	Diameter: 3.80 inches	Volume: 55.46 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	56.06 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4064.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 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			4043.00		
Shut In Tool	5.00			4048.00		
Hydraulic tool	5.00			4053.00		
Safety Joint	2.00			4055.00		
Packer	5.00			4060.00	22.00	Bottom Of Top Packer
Packer	4.00			4064.00		
Stubb	1.00			4065.00		
Recorder	0.00	6772	Inside	4065.00		
Perforations	21.00			4086.00		
Change Over Sub	1.00			4087.00		
Drill Pipe	32.00			4119.00		
Change Over Sub	1.00			4120.00		
Recorder	0.00	7437	Outside	4120.00		
Bullnose	5.00			4125.00	61.00	Bottom Packers & Anchor

Total Tool Length: 83.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26291

DST#: 1

ATTN: Dave Goldak

Test Start: 2006.10.04 @ 16:35:13

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OCM 50%O 50%M	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

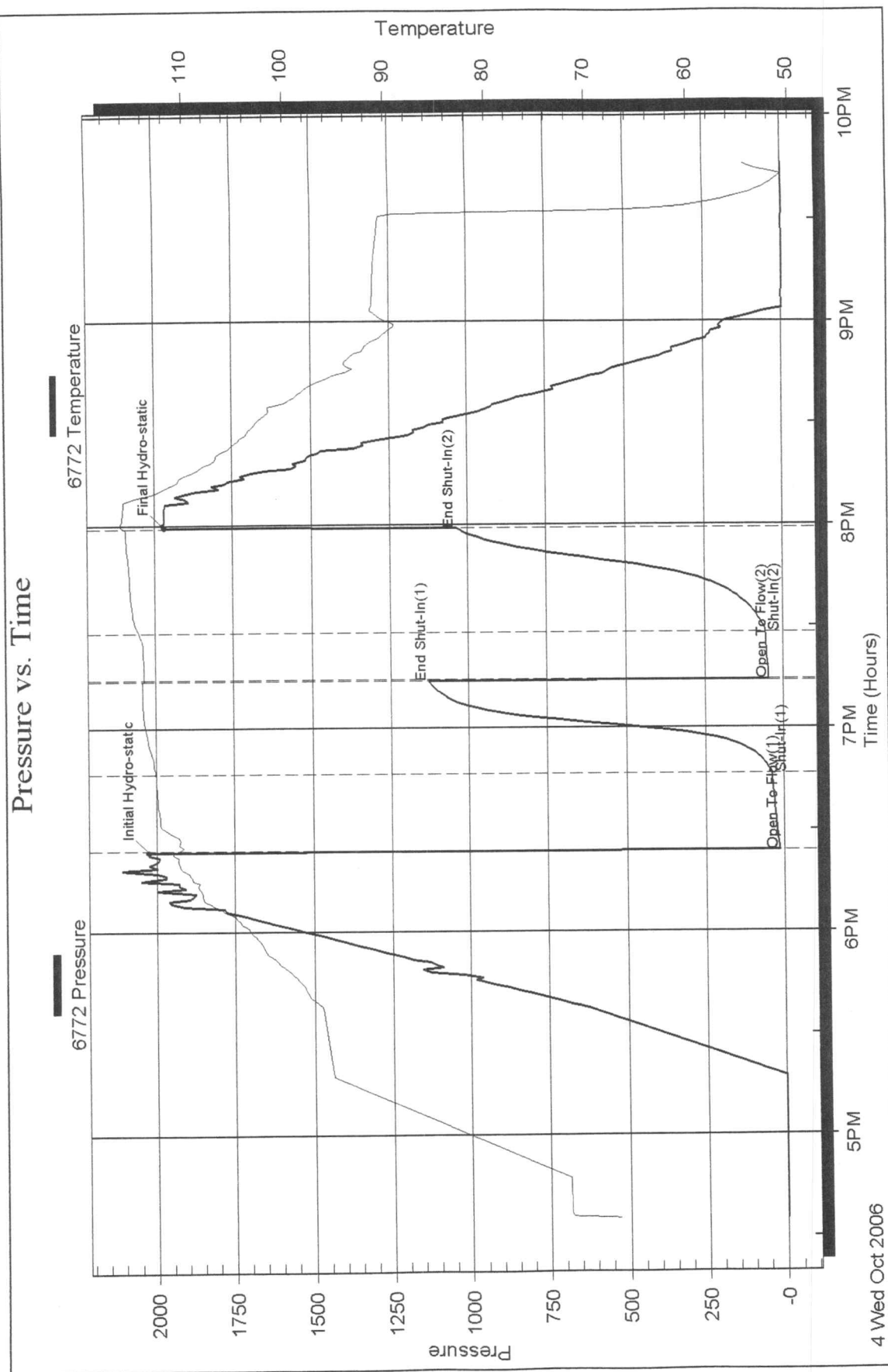
4 16S 26W Ness KS

Mull Drilling Company

Inside

Serial #: 6772

Pressure vs. Time



Ref. No: 26291

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

4 16S 26W Ness KS

Thornburg B 1-4

Start Date: 2006.10.05 @ 04:40:10

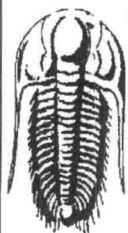
End Date: 2006.10.05 @ 11:59:49

Job Ticket #: 26292 DST #: 2

Trilobite Testing, Inc

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**TRILOBITE
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DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26292

DST#: 2

Test Start: 2006.10.05 @ 04:40:10

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:24:50

Time Test Ended: 11:59:49

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 36

Interval: **4128.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Total Depth: 4150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2616.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 56.23 psig @ 4129.00 ft (KB)

Start Date: 2006.10.05

End Date:

2006.10.05

Capacity: 7000.00 psig

Last Calib.: 2006.10.05

Start Time: 04:40:10

End Time:

11:59:49

Time On Btm: 2006.10.05 @ 06:24:35

Time Off Btm: 2006.10.05 @ 10:05:34

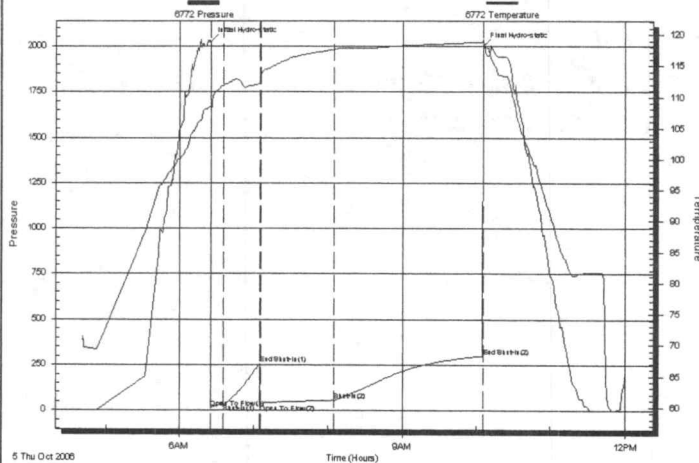
TEST COMMENT: IF 1/4 blow built to 4 in 10 min.

IS No return

FF 1/4 blow BOB in 22 min.

FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.46	108.34	Initial Hydro-static
1	14.16	107.20	Open To Flow (1)
11	32.88	111.91	Shut-In (1)
40	256.37	112.13	End Shut-In (1)
41	36.16	113.51	Open To Flow (2)
100	56.23	117.64	Shut-In (2)
221	300.60	118.84	End Shut-In (2)
221	1997.13	119.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20%O 80%M	0.30
30.00	Free Oil 100%O	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26292

DST#: 2

ATTN: Dave Goldak

Test Start: 2006.10.05 @ 04:40:10

Tool Information

Drill Pipe:	Length: 4018.00 ft	Diameter: 3.80 inches	Volume: 56.36 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	56.96 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4128.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	44.00 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			4107.00		
Shut In Tool	5.00			4112.00		
Hydraulic tool	5.00			4117.00		
Safety Joint	2.00			4119.00		
Packer	5.00			4124.00	22.00	Bottom Of Top Packer
Packer	4.00			4128.00		
Stubb	1.00			4129.00		
Recorder	0.00	6772	Inside	4129.00		
Perforations	16.00			4145.00		
Recorder	0.00	7437	Outside	4145.00		
Bullnose	5.00			4150.00	22.00	Bottom Packers & Anchor
Total Tool Length:		44.00				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26292

DST#: 2

ATTN: Dave Goldak

Test Start: 2006.10.05 @ 04:40:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.71 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 20%O 80%M	0.295
30.00	Free Oil 100%O	0.148

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

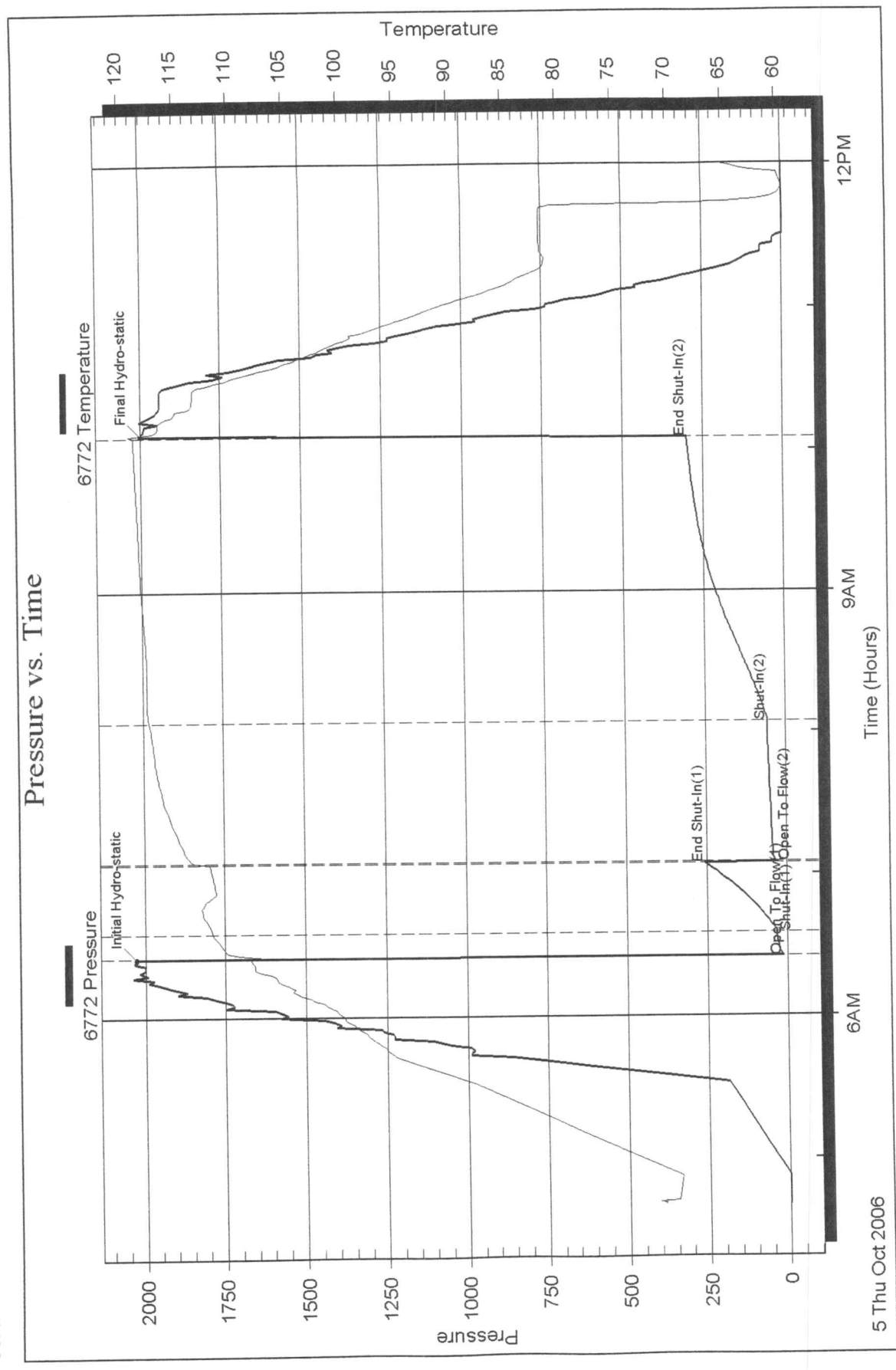
DST Test Number: 2

4 16S 26W Ness KS

Mull Drilling Company

Inside

Serial #: 6772





TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

4 16S 26W Ness KS

Thornburg B 1-4

Start Date: 2006.10.05 @ 19:20:47

End Date: 2006.10.06 @ 00:15:26

Job Ticket #: 26293 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26293

DST#: 3

Test Start: 2006.10.05 @ 19:20:47

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:37:27

Time Test Ended: 00:15:26

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 36

Interval: **4154.00 ft (KB) To 4183.00 ft (KB) (TVD)**

Total Depth: 4183.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2616.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 41.11 psig @ 4155.00 ft (KB)

Start Date: 2006.10.05

End Date:

2006.10.06

Start Time: 19:20:47

End Time:

00:15:26

Capacity: 7000.00 psig

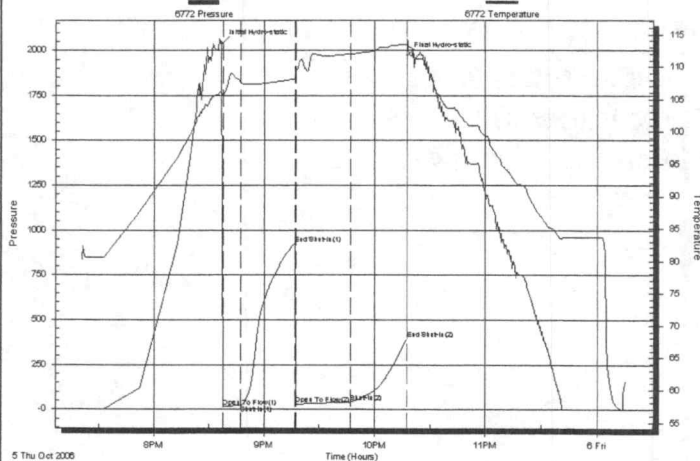
Last Calib.: 2006.10.06

Time On Btm: 2006.10.05 @ 20:37:12

Time Off Btm: 2006.10.05 @ 22:17:42

TEST COMMENT: IF 1/4 blow built to 1 in 10 min.
IS No return
FF Surface blow built to 1/2 in 30 min.
FS No return

Pressure vs. Time



PRESSURE SUMMARY

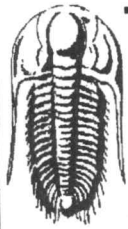
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2038.83	105.94	Initial Hydro-static
1	13.41	105.58	Open To Flow (1)
10	24.13	107.49	Shut-In(1)
40	924.47	108.15	End Shut-In(1)
40	27.03	108.78	Open To Flow (2)
70	41.11	112.00	Shut-In(2)
101	395.92	113.57	End Shut-In(2)
101	1970.13	114.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 5%o 95% m	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26293

DST#: 3

Test Start: 2006.10.05 @ 19:20:47

Tool Information

Drill Pipe:	Length: 4016.00 ft	Diameter: 3.80 inches	Volume: 56.33 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	56.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4154.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	51.00 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			4133.00		
Shut In Tool	5.00			4138.00		
Hydraulic tool	5.00			4143.00		
Safety Joint	2.00			4145.00		
Packer	5.00			4150.00	22.00	Bottom Of Top Packer
Packer	4.00			4154.00		
Stubb	1.00			4155.00		
Recorder	0.00	6772	Inside	4155.00		
Perforations	23.00			4178.00		
Recorder	0.00	7437	Outside	4178.00		
Bullnose	5.00			4183.00	29.00	Bottom Packers & Anchor

Total Tool Length: 51.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26293

DST#: 3

ATTN: Dave Goldak

Test Start: 2006.10.05 @ 19:20:47

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 5%o 95%m	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

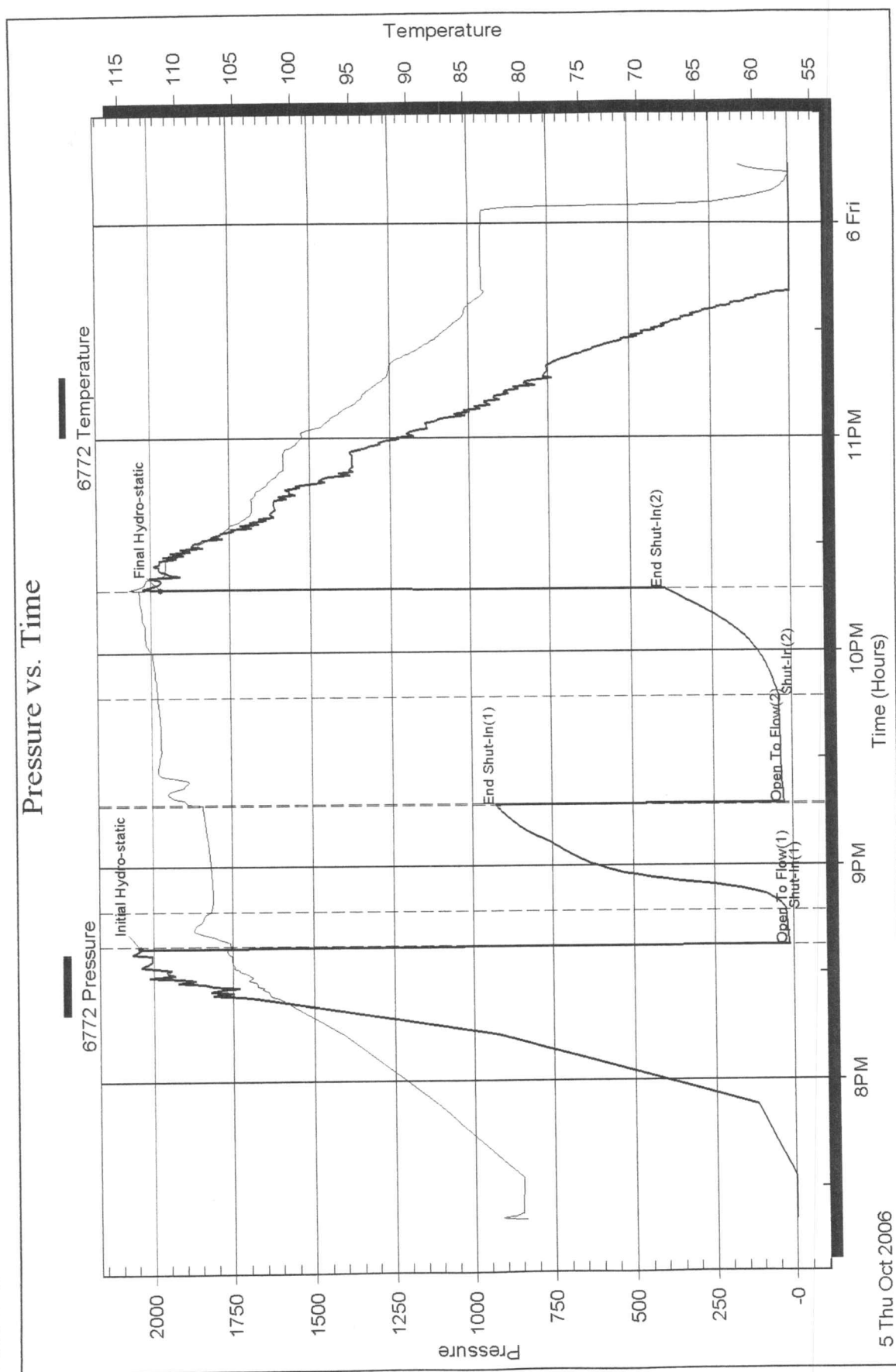
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

4 16S 26W Ness KS

Thornburg B 1-4

Start Date: 2006.10.07 @ 05:35:51

End Date: 2006.10.07 @ 11:05:15

Job Ticket #: 26294 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

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26294

DST#: 4

Test Start: 2006.10.07 @ 05:35:51

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:43:01

Time Test Ended: 11:05:15

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4460.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: 4530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2616.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 Inside

Press@RunDepth: 27.25 psig @ 4461.00 ft (KB)

Start Date: 2006.10.07

End Date:

2006.10.07

Start Time: 05:35:51

End Time:

11:05:15

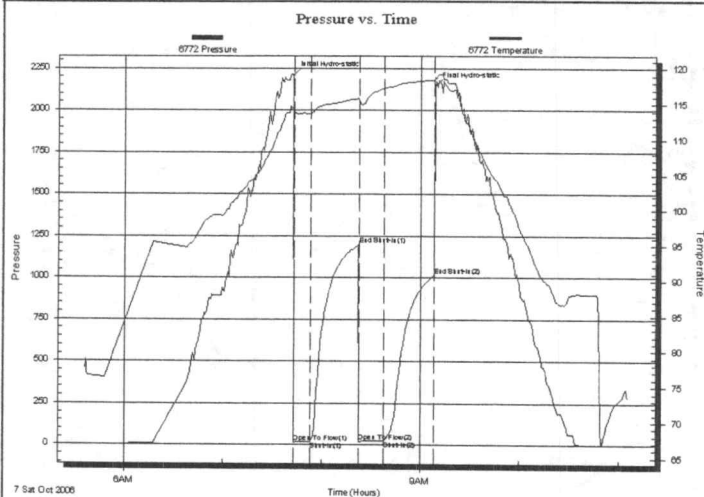
Capacity: 7000.00 psig

Last Calib.: 2006.10.07

Time On Btm: 2006.10.07 @ 07:42:46

Time Off Btm: 2006.10.07 @ 09:08:46

TEST COMMENT: IF 1/4 blow built to 1/2 died to surface blow
IS No return
FF No blow
FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.00	114.44	Initial Hydro-static
1	15.23	113.92	Open To Flow (1)
11	19.42	113.77	Shut-In (1)
40	1195.46	115.83	End Shut-In (1)
41	21.39	115.42	Open To Flow (2)
55	27.25	117.26	Shut-In (2)
86	1012.01	118.48	End Shut-In (2)
86	2146.11	118.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud Oil spots 100%M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26294

DST#: 4

Test Start: 2006.10.07 @ 05:35:51

Tool Information

Drill Pipe:	Length: 4328.00 ft	Diameter: 3.80 inches	Volume: 60.71 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	700000.0 lb
		Total Volume:	61.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4460.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	92.00 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			4439.00		
Shut In Tool	5.00			4444.00		
Hydraulic tool	5.00			4449.00		
Safety Joint	2.00			4451.00		
Packer	5.00			4456.00	22.00	Bottom Of Top Packer
Packer	4.00			4460.00		
Stubb	1.00			4461.00		
Recorder	0.00	6772	Inside	4461.00		
Perforations	30.00			4491.00		
Change Over Sub	1.00			4492.00		
Drill Pipe	32.00			4524.00		
Change Over Sub	1.00			4525.00		
Recorder	0.00	7437	Outside	4525.00		
Bullnose	5.00			4530.00	70.00	Bottom Packers & Anchor
Total Tool Length:		92.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26294

DST#: 4

ATTN: Dave Goldak

Test Start: 2006.10.07 @ 05:35:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.55 in³

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
10.00	Mud Oil spots 100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

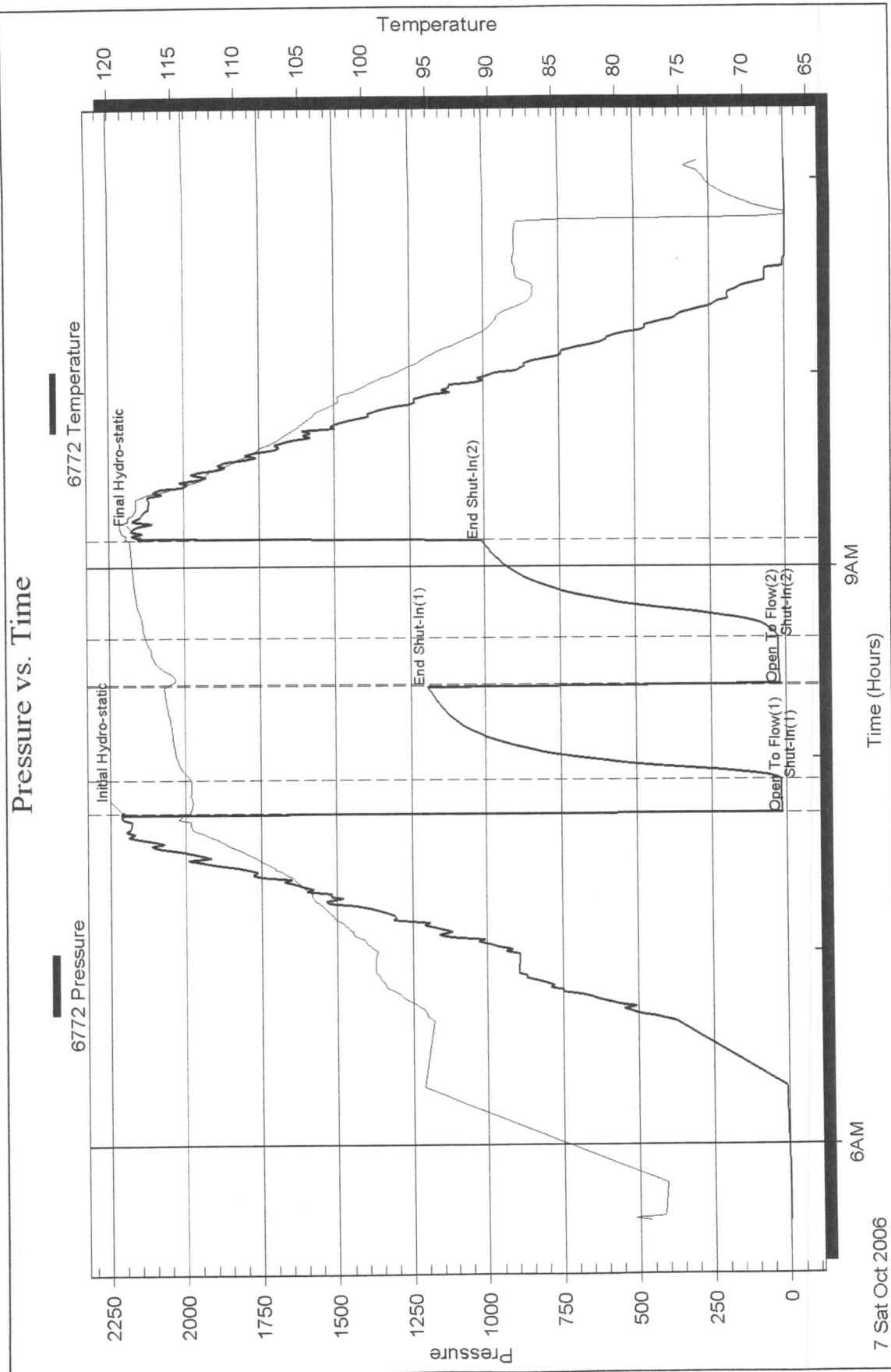
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

4 16S 26W Ness KS

Thornburg B 1-4

Start Date: 2006.10.07 @ 17:10:59

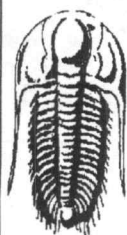
End Date: 2006.10.07 @ 22:23:53

Job Ticket #: 26295 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: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26295

DST#: 5

Test Start: 2006.10.07 @ 17:10:59

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:39

Time Test Ended: 22:23:53

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 36

Interval: **4530.00 ft (KB) To 4542.00 ft (KB) (TVD)**

Total Depth: 4542.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2616.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 44.86 psig @ 4531.00 ft (KB)

Start Date: 2006.10.07

End Date:

2006.10.07

Start Time: 17:10:59

End Time:

22:23:53

Capacity: 7000.00 psig

Last Calib.: 2006.10.07

Time On Btm: 2006.10.07 @ 19:07:24

Time Off Btm: 2006.10.07 @ 20:32:54

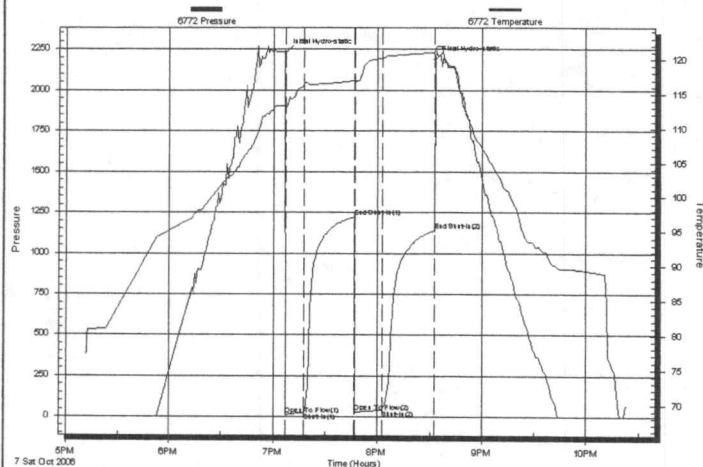
TEST COMMENT: IF Surface blow built to 1/4 in 10 min.

IS No return

FF Surface blow built to 1/2 in 15 min.

FS No return

Pressure vs. Time



PRESSURE SUMMARY

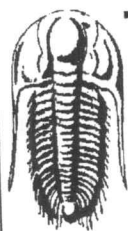
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.74	113.42	Initial Hydro-static
1	14.18	113.04	Open To Flow (1)
11	28.04	116.54	Shut-In(1)
40	1221.71	116.95	End Shut-In(1)
40	30.81	116.44	Open To Flow (2)
55	44.86	120.11	Shut-In(2)
85	1138.86	121.02	End Shut-In(2)
86	2184.49	121.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 10%O 90%M	0.30
2.00	Free Oil 100%O	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26295

DST#: 5

Test Start: 2006.10.07 @ 17:10:59

Tool Information

Drill Pipe:	Length: 4358.00 ft	Diameter: 3.80 inches	Volume: 61.13 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:	25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 62.03 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4530.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	34.00 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			4509.00		
Shut In Tool	5.00			4514.00		
Hydraulic tool	5.00			4519.00		
Safety Joint	2.00			4521.00		
Packer	5.00			4526.00	22.00	Bottom Of Top Packer
Packer	4.00			4530.00		
Stubb	1.00			4531.00		
Recorder	0.00	6772	Inside	4531.00		
Perforations	6.00			4537.00		
Recorder	0.00	7437	Outside	4537.00		
Bullnose	5.00			4542.00	12.00	Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26295

DST#: 5

ATTN: Dave Goldak

Test Start: 2006.10.07 @ 17:10:59

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 10%O 90%M	0.295
2.00	Free Oil 100%O	0.010

Total Length: 62.00 ft

Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

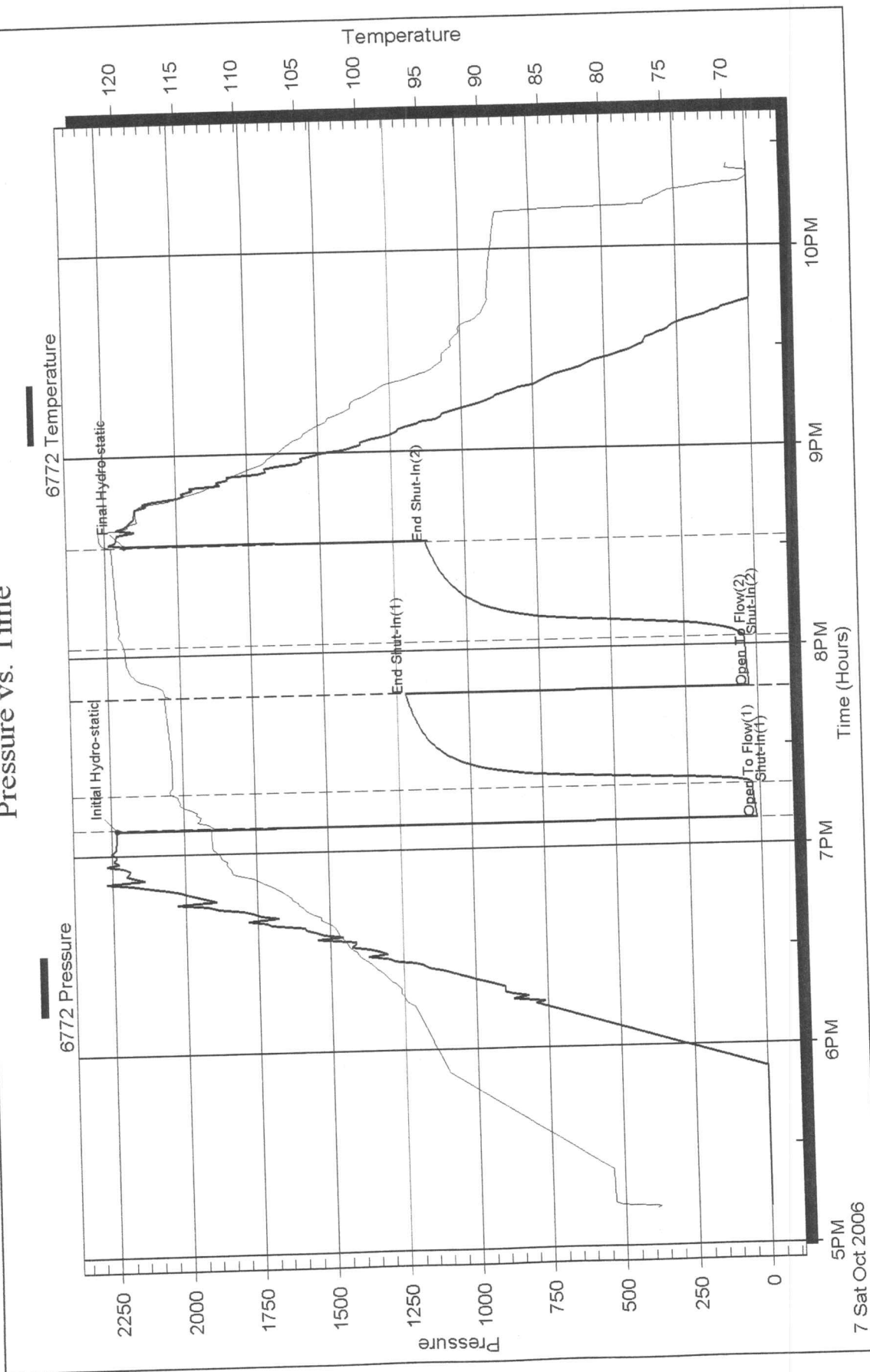
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

4 16S 26W Ness KS

Thornburg B 1-4

Start Date: 2006.10.08 @ 14:30:49

End Date: 2006.10.08 @ 21:59:13

Job Ticket #: 26296 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

PO Box 2758
Wichita KS 67201

ATTN: Dave Goldak

Thornburg B 1-4

4 16S 26W Ness KS

Job Ticket: 26296

DST#: 6

Test Start: 2006.10.08 @ 14:30:49

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:22:14

Time Test Ended: 21:59:13

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 36

Interval: **4532.00 ft (KB) To 4553.00 ft (KB) (TVD)**

Total Depth: 4612.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2616.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 Inside

Press@RunDepth: 64.26 psig @ 4533.00 ft (KB)

Start Date: 2006.10.08

End Date:

2006.10.08

Start Time: 14:30:49

End Time:

21:59:13

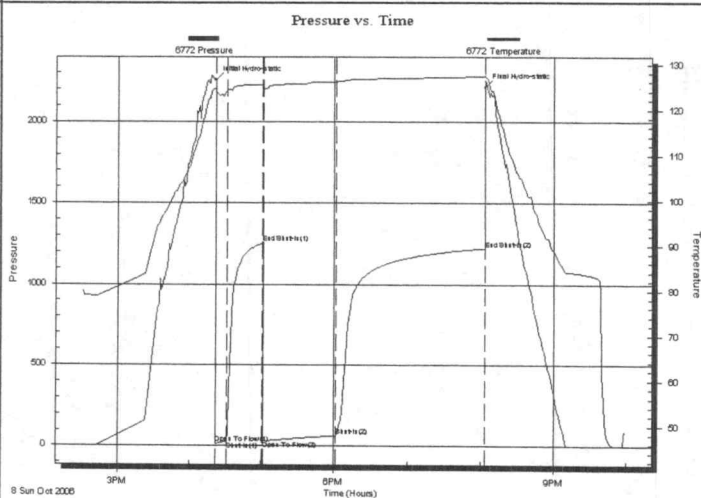
Capacity: 7000.00 psig

Last Calib.: 2006.10.08

Time On Btm: 2006.10.08 @ 16:21:59

Time Off Btm: 2006.10.08 @ 20:02:43

TEST COMMENT: IF 1/4 blow built to 1 1/2 in 10 min.
IS No return
FF Surface blow built to 2 in 60 min.
FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.79	124.58	Initial Hydro-static
1	14.19	123.99	Open To Flow (1)
10	26.80	124.24	Shut-In (1)
40	1250.02	125.34	End Shut-In (1)
40	28.90	125.01	Open To Flow (2)
100	64.26	126.12	Shut-In (2)
221	1219.17	127.31	End Shut-In (2)
221	2209.83	127.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	OCM 5% O 95% M	0.57
5.00	Free Oil 100% O	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26296

DST#: 6

ATTN: Dave Goldak

Test Start: 2006.10.08 @ 14:30:49

Tool Information

Drill Pipe: Length: 4334.00 ft Diameter: 3.80 inches Volume: 60.79 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 182.00 ft Diameter: 2.25 inches Volume: 0.90 bbl
Total Volume: 61.69 bbl

Tool Weight: 1500.00 lb
Weight set on Packer: 30000.00 lb
Weight to Pull Loose: 75000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 54000.00 lb
Final 54000.00 lb

Drill Pipe Above KB: 6.00 ft
Depth to Top Packer: 4532.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 80.00 ft
Tool Length: 102.00 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			4511.00	
Shut In Tool	5.00			4516.00	
Hydraulic tool	5.00			4521.00	
Safety Joint	2.00			4523.00	
Packer	5.00			4528.00	22.00 Bottom Of Top Packer
Packer	4.00			4532.00	
Stubb	1.00			4533.00	
Recorder	0.00	6772	Inside	4533.00	
Perforations	15.00			4548.00	
Recorder	0.00	1074	Outside	4548.00	
Blank Off Sub	1.00			4549.00	80.00 Tool Interval
Packer	4.00			4553.00	
Stubb	1.00			4554.00	
Below (Straddle)	20.00			4574.00	
Change Over Sub	1.00			4575.00	
Drill Pipe	31.00			4606.00	
Change Over Sub	1.00			4607.00	
Recorder	0.00	7437	Below	4607.00	
Bullnose	5.00			4612.00	1000101.00 Bottom Packers & Anchor

Total Tool Length: 102.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Thornburg B 1-4

PO Box 2758
Wichita KS 67201

4 16S 26W Ness KS

Job Ticket: 26296

DST#: 6

ATTN: Dave Goldak

Test Start: 2006.10.08 @ 14:30:49

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	OCM 5%O 95%M	0.566
5.00	Free Oil 100%O	0.025

Total Length: 120.00 ft

Total Volume: 0.591 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

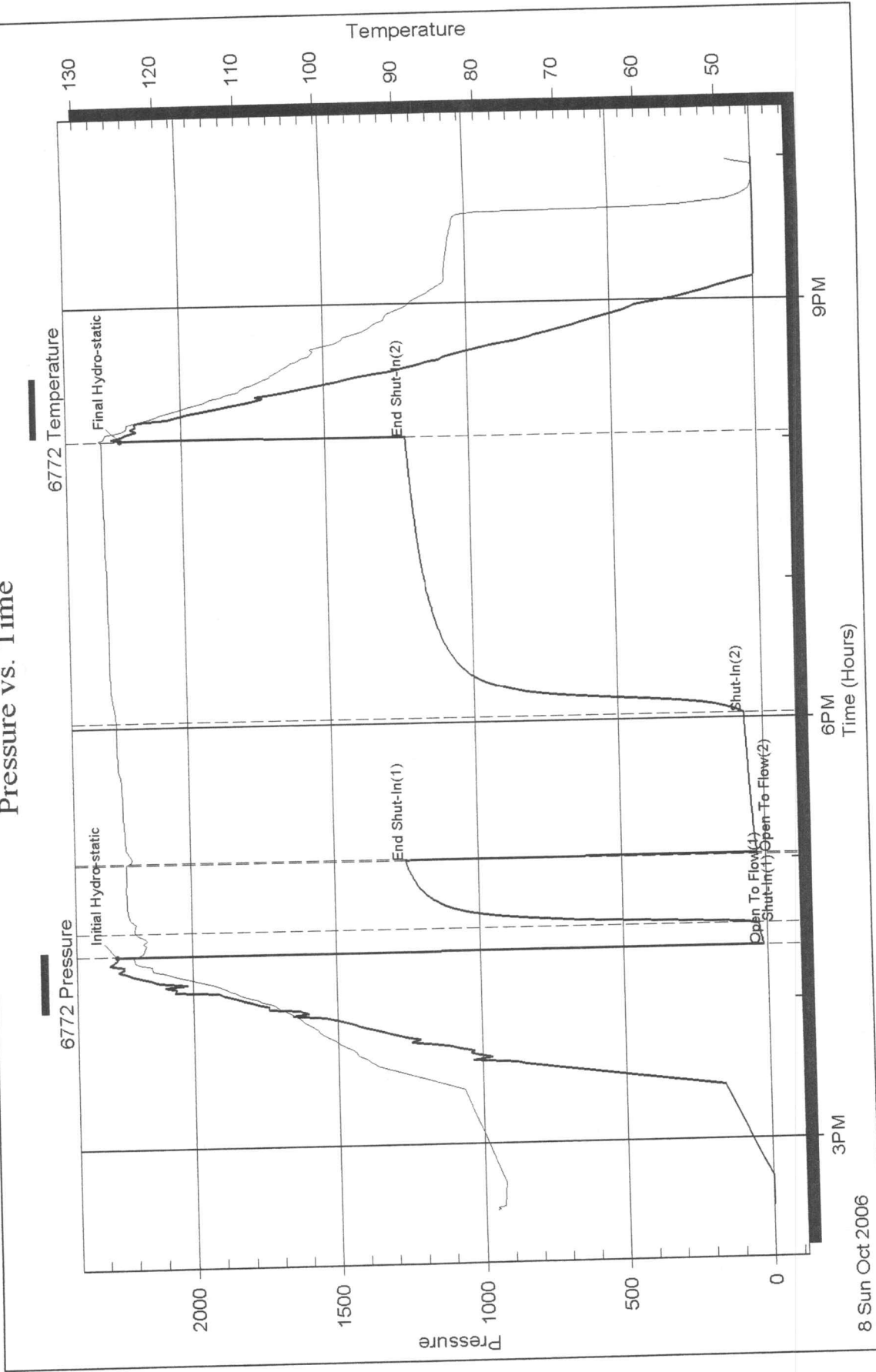
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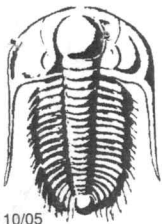
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

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26291

9365

Test Ticket

Well Name & No. Thornburg 'B' 1-4 Test No. 1 Date 10-4-06
 Company Mull Drilling Company Zone Tested Lmsing H+I
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2621 KB 2616 GL
 Co. Rep / Geo. Dave Golds Rig WW #2
 Location: Sec. 4 Twp. 16S Rge. 26W Co. Ness State KS
 Comment: _____ Release date / time: _____

Interval Tested 4064 4125 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 61 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 4059 Tool Weight 1500
 Bottom Packer Depth 4064 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4125 Wt. Pipe Run — Drill Collar Run 121
 Mud Wt. 9.3 LCM 0 Vis. 51 WL 8.8 Drill Pipe Size 4 1/2 X H Ft. Run 3954
 Blow Description IFI 1/4 blow died to surface blow.

IS: No return.
FF: surface blow built to 1/2 in 15 min.
FS: No return.

Recovery - Total Feet 65 GIP — Ft. in DC 65 Ft. in DP —
 Rec. 65 Feet of ocm %gas 50% 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 _____
 Rec. _____ Feet of _____ %gas _____ oil _____ %water _____ mud _____
 BHT 115 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2061	PSI	Recorder No.	6772	Test x	1200.00
(B) First Initial Flow Pressure			14	PSI	(depth)	4065	Jars	
(C) First Final Flow Pressure			37	PSI	Recorder No.	7437	Safety Jt. x	75.00
(D) Initial Shut-In Pressure			1130	PSI	(depth)	4124	Circ Sub x	N/C
(E) Second Initial Flow Pressure			45	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			54	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1037	PSI	Initial Opening	20	Ext. Packer	
(Q) Final Hydrostatic Mud			2040	PSI	Initial Shut-In	30	Shale Packer	
					Final Flow	15	Ruined Packer	
					Final Shut-In	30	Mileage	110 - 137.5

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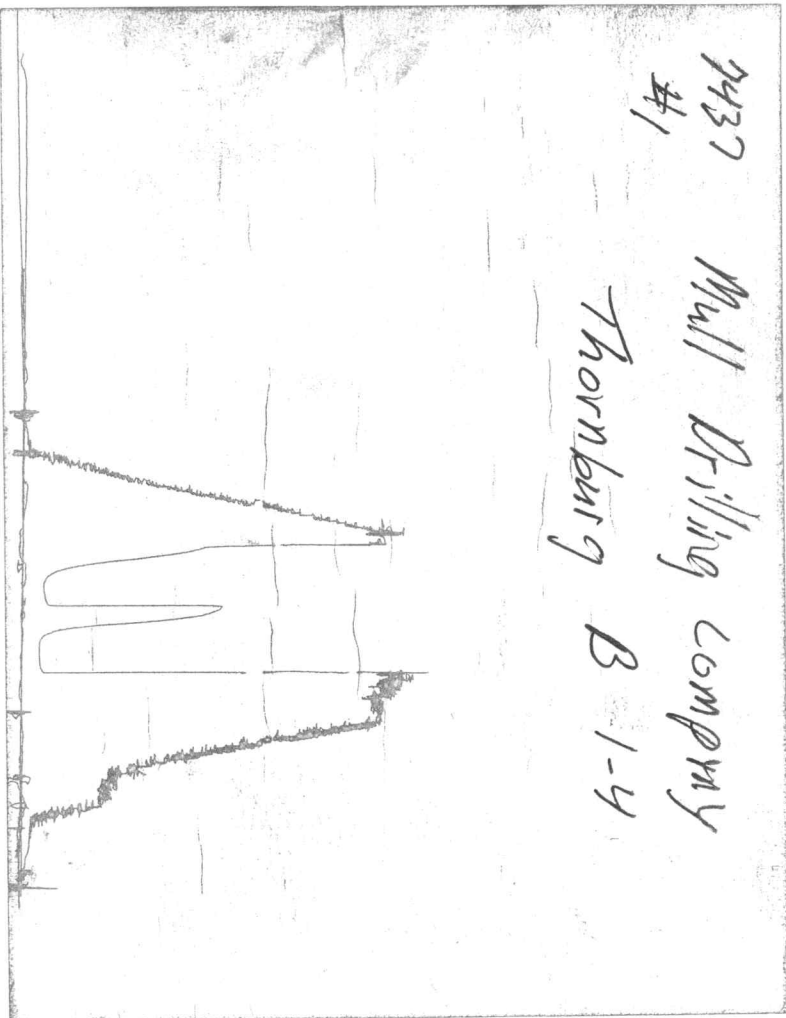
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 Our Representative [Signature]

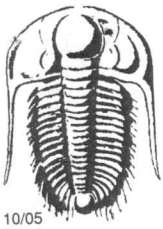
T-On Location 15:46
 T-Started 16:35
 T-Open 18:24
 T-Pulled 19:59
 T-Out 21:50

Sub Total: —
 Std. By —
 Acc. Chg: 1412.50
 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

26292

Test Ticket

Well Name & No.	Thornburg "B" 1-4	Test No.	2	Date	10-5-66
Company	Mull Drilling Company	Zone Tested	LKC-J		
Address	P.O. Box 2758 Wichita, KS 67201	Elevation	2621	KB	2616 GL
Co. Rep / Geo.	Dave Goldark	Rig	WW #2		
Location: Sec.	4	Twp.	16S	Rge.	26W
		Co.	Ness	State	KS
Comment:	Release date / time:				

Interval Tested	4128	4150	Initial Str Wt./Lbs.	45,000	Unseated Str Wt./Lbs.	48,000
Anchor Length		22	Wt. Set Lbs.	25,000	Wt. Pulled Loose/Lbs.	60,000
Top Packer Depth		4123	Tool Weight	1500		
Bottom Packer Depth		4128	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4150	Wt. Pipe Run	—	Drill Collar Run	121
Mud Wt.	9.3	LCM 0	Drill Pipe Size	4 1/2 x 4	Ft. Run	4018
Vis.	51	WL 8.8				
Blow Description	IF: 1/4 blow built to 4 in 10 min.					
	IS: No return,					
	EF: 1/4 blow BOB in 22 min.					
	FS: No return,					

Recovery - Total Feet	90	GIP	278	Ft. in DC	90	Ft. in DP	—
Rec.	30	Feet of	Free oil	%gas	100%	%oil	%water %mud
Rec.	60	Feet of	gum	%gas	20	%oil	%water 80 %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	37	°API D @	60	°F Corrected Gravity	37 °API
RW	—	@	—	°F	Chlorides	—	ppm Recovery — Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2038	PSI	Recorder No.	6772	Test	1200.00
(B) First Initial Flow Pressure			14	PSI	(depth)	4127	Jars	
(C) First Final Flow Pressure			32	PSI	Recorder No.	7437	Safety Jt. X	75.00
(D) Initial Shut-In Pressure			256	PSI	(depth)	4149	Circ Sub X	N/C
(E) Second Initial Flow Pressure			36	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			56	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			300	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2004	PSI	Initial Shut-In	30	Shale Packer	
					Final Flow	60	Ruined Packer X	200.00
					Final Shut-In	120	Mileage	110-137.50

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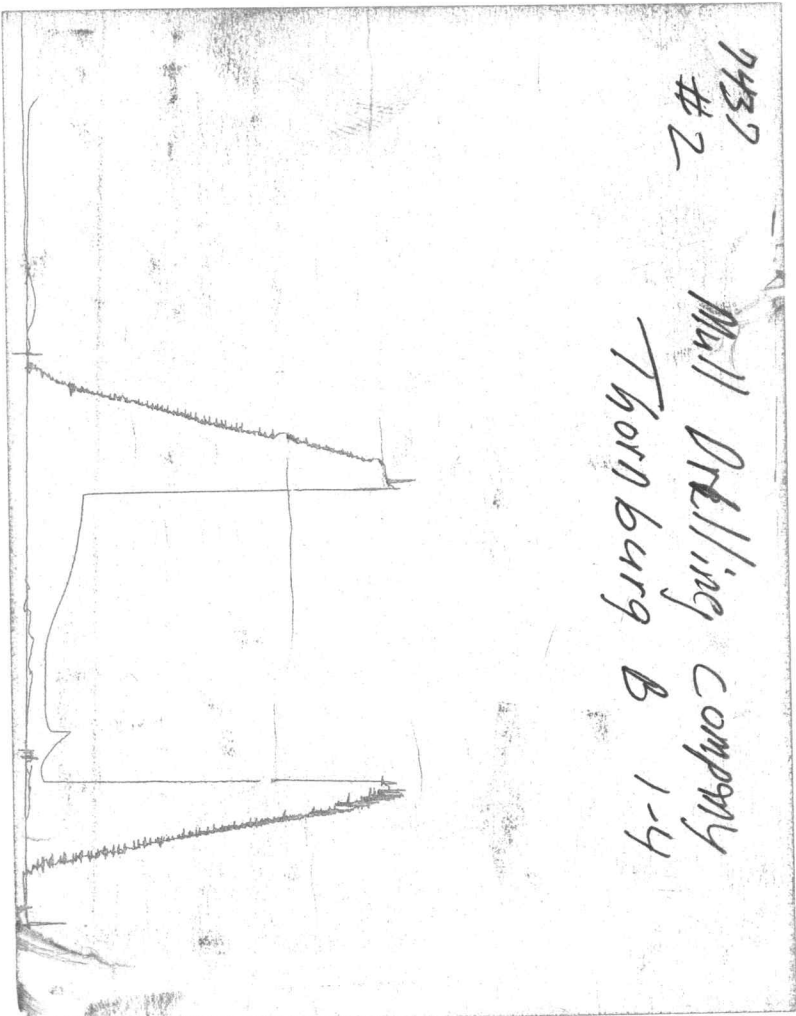
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Our Representative [Signature]

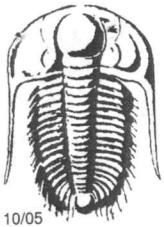
T-On Location 4:10
T-Started 4:40
T-Open 6:25
T-Pulled 10:05
T-Out 12:00

Sub Total:
Std. By
Acc. Chg:
Other:
Total: 11612.50

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26293

Test Ticket

Well Name & No. Thornburg B 1-4 Test No. 3 Date 6-5-06
 Company Mull Drilling Company Zone Tested Swope
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2621 KB 2616 GL
 Co. Rep / Geo. Dave Goldak Rig WW#2
 Location: Sec. 4 Twp. 16S Rge. 26W Co. Ness State KS
 Comment: _____ Release date / time: _____

Interval Tested 4154 4183 Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48000
 Anchor Length 29 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4149 Tool Weight 1500
 Bottom Packer Depth 4154 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4183 Wt. Pipe Run — Drill Collar Run 121
 Mud Wt. 9.3 LCM 0 Vis. 47 WL 8.0 Drill Pipe Size 4 1/2 X H Ft. Run 4016
 Blow Description IS: 1/4 blow built to 1 in 10 min.
IS: No return.
FF: Surface blow built to 1/2 in 30 min.
FS: No return.

Recovery - Total Feet 60 GIP 60 Ft. in DC 60 Ft. in DP —
 Rec. 60 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 —
 Rec. — Feet of — %gas — %oil — %water — %mud —
 BHT 113 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 2400 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	Test X
(B) First Initial Flow Pressure	2066	PSI	6772	Jars
(C) First Final Flow Pressure	13	PSI	4155	Safety Jt. X
(D) Initial Shut-In Pressure	24	PSI	7437	Circ Sub X
(E) Second Initial Flow Pressure	924	PSI	4182	Sampler
(F) Second Final Flow Pressure	27	PSI		Straddle
(G) Final Shut-In Pressure	41	PSI		Ext. Packer
(Q) Final Hydrostatic Mud	395	PSI		Shale Packer
	2025	PSI		Ruined Packer
			Initial Opening	Mileage
			Initial Shut-In	Sub Total:
			Final Flow	Std. By
			Final Shut-In	Acc. Chg:
			T-On Location	Other:
			T-Started	Total:
			T-Open	
			T-Pulled	
			T-Out	

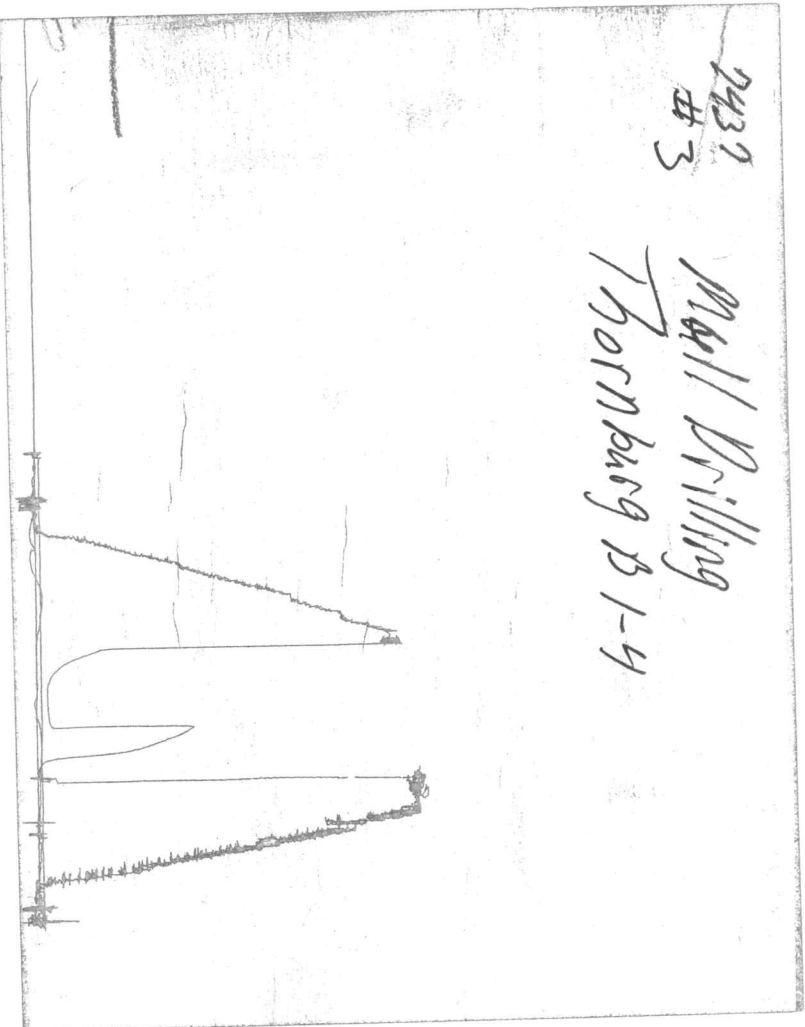
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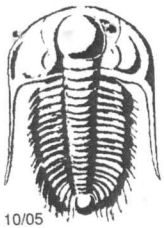
Approved By [Signature]
 Our Representative [Signature]

Test X 1200.00
 Jars —
 Safety Jt. X 75.00
 Circ Sub X N/L
 Sampler —
 Straddle —
 Ext. Packer —
 Shale Packer —
 Ruined Packer —
 Mileage 110-137.50
 Sub Total: —
 Std. By —
 Acc. Chg: —
 Other: —
 Total: 1412.50

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26294

Test Ticket

Well Name & No. Thornburg B 1-4 Test No. 4 Date 10-7-06
 Company Mull Drilling Company Zone Tested M:SS.
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2621 KB 2616 GL
 Co. Rep / Geo. Dave Goldenk Rig WW#2
 Location: Sec. 4 Twp. 16S Rge. 26W Co. Ness State KS
 Comment: _____ Release date / time: _____

Interval Tested 4460 4530 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 70 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4455 Tool Weight 1500
 Bottom Packer Depth 4460 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4530 Wt. Pipe Run — Drill Collar Run 121
 Mud Wt. 9.4 LCM 0 Vis. 54 WL 9.6 Drill Pipe Size 4 1/2 x H Ft. Run 4328
 Blow Description IF: 14 blow built 1/2 died to surface blow.

IS: No return,
FF: No blow,
FS: No return,

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>10</u>	<u>—</u>	<u>10</u>	<u>—</u>
Rec. <u>10</u>	Feet of <u>mud oil spots</u>	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil

BHT 118 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 2600 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2258</u> PSI	<u>6772</u>	<u>1200.00</u>	
(B) First Initial Flow Pressure	<u>15</u> PSI	<u>4461</u>	Jars	
(C) First Final Flow Pressure	<u>19</u> PSI	<u>7437</u>	Safety Jt. <u>75.00</u>	
(D) Initial Shut-In Pressure	<u>1195</u> PSI	<u>4529</u>	Circ Sub <u>N/C</u>	
(E) Second Initial Flow Pressure	<u>21</u> PSI		Sampler	
(F) Second Final Flow Pressure	<u>27</u> PSI		Straddle	
(G) Final Shut-In Pressure	<u>1012</u> PSI		Ext. Packer	
(Q) Final Hydrostatic Mud	<u>2187</u> PSI		Shale Packer	

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Approved By [Signature]

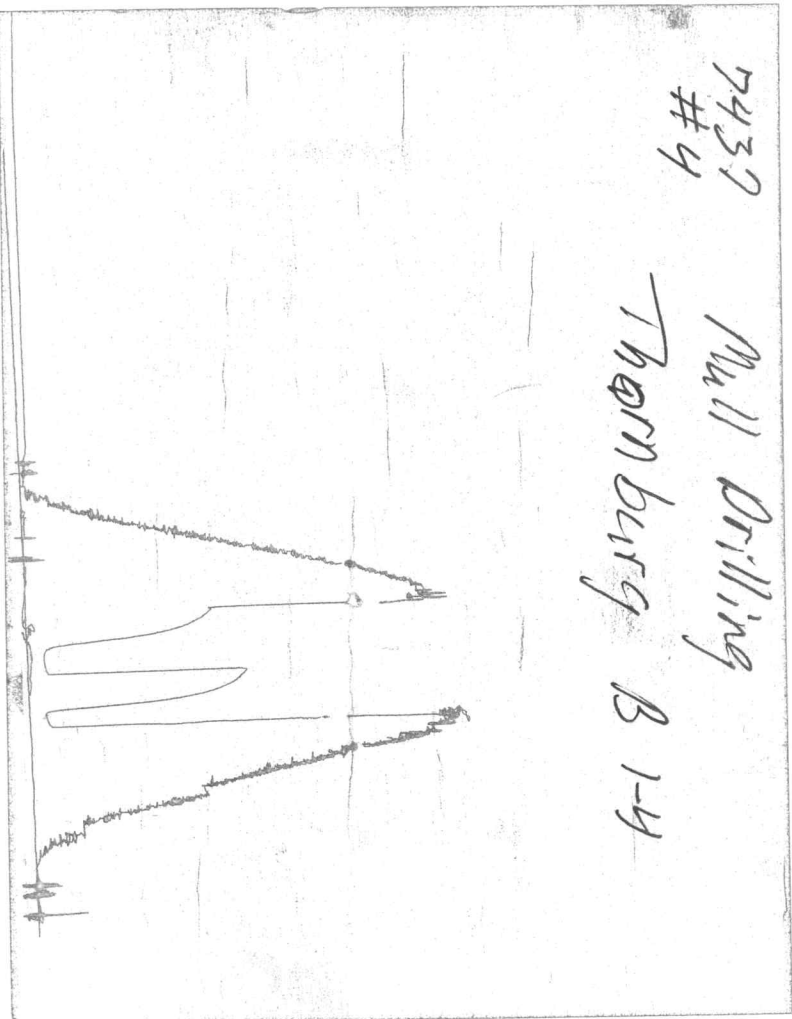
Our Representative [Signature]

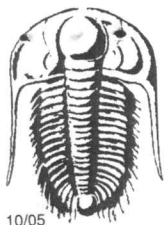
	Initial Opening	Final Flow	Final Shut-In	T-On Location	T-Started	T-Open	T-Pulled	T-Out
	<u>10</u>	<u>15</u>	<u>30</u>	<u>4:50</u>	<u>5:35</u>	<u>7:42</u>	<u>9:07</u>	<u>11:10</u>

Test 1200.00
 Jars _____
 Safety Jt. 75.00
 Circ Sub N/C
 Sampler _____
 Straddle _____
 Ext. Packer _____
 Shale Packer _____
 Ruined Packer _____
 Mileage 110-137.50
 Sub Total: _____
 Std. By X 4-400
 Acc. Chg: _____
 Other: _____
 Total: 1412.50

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26295

Test Ticket

Well Name & No. Thornburg B 1-4 Test No. 5 Date 10-7-06
 Company Mull Drilling Company Zone Tested MISS.
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2621 KB 2616 GL
 Co. Rep / Geo. Dave Goldberg Rig WW #2
 Location: Sec. 4 Twp. 16S Rge. 26W Co. Ness State KS
 Comment: _____ Release date / time: _____

Interval Tested 4530 4542 Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length 12 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 4525 Tool Weight 1500
 Bottom Packer Depth 4530 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4542 Wt. Pipe Run — Drill Collar Run 182
 Mud Wt. 9.3 LCM 2 Vis. 47 WL 8.8 Drill Pipe Size 4 1/2 x 4 Ft. Run 4358
 Blow Description IF: Surface blow built to 1/4 in 10 min.
IS: No return.
FF: Surface blow built to 1/2 in 15 min.
FS: No return.

Recovery - Total Feet 62 GIP — Ft. in DC 62 Ft. in DP —
 Rec. 2 Feet of Free oil %gas 100 %oil — %water — %mud —
 Rec. 60 Feet of ocm %gas 10 %oil — %water 90 %mud —
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 121 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 3200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	Test
(B) First Initial Flow Pressure	2281	PSI	(depth)	Jars <u>X 75.00</u>
(C) First Final Flow Pressure	14	PSI	Recorder No.	Safety Jt <u>X 75.00</u>
(D) Initial Shut-In Pressure	28	PSI	(depth)	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure	1221	PSI	Recorder No.	Sampler _____
(F) Second Final Flow Pressure	30	PSI	(depth)	Straddle _____
(G) Final Shut-In Pressure	44	PSI	Initial Opening	Ext. Packer _____
(Q) Final Hydrostatic Mud	1138	PSI	Initial Shut-In	Shale Packer _____
	2237	PSI	Final Flow	Ruined Packer _____
			Final Shut-In	Mileage <u>—</u>

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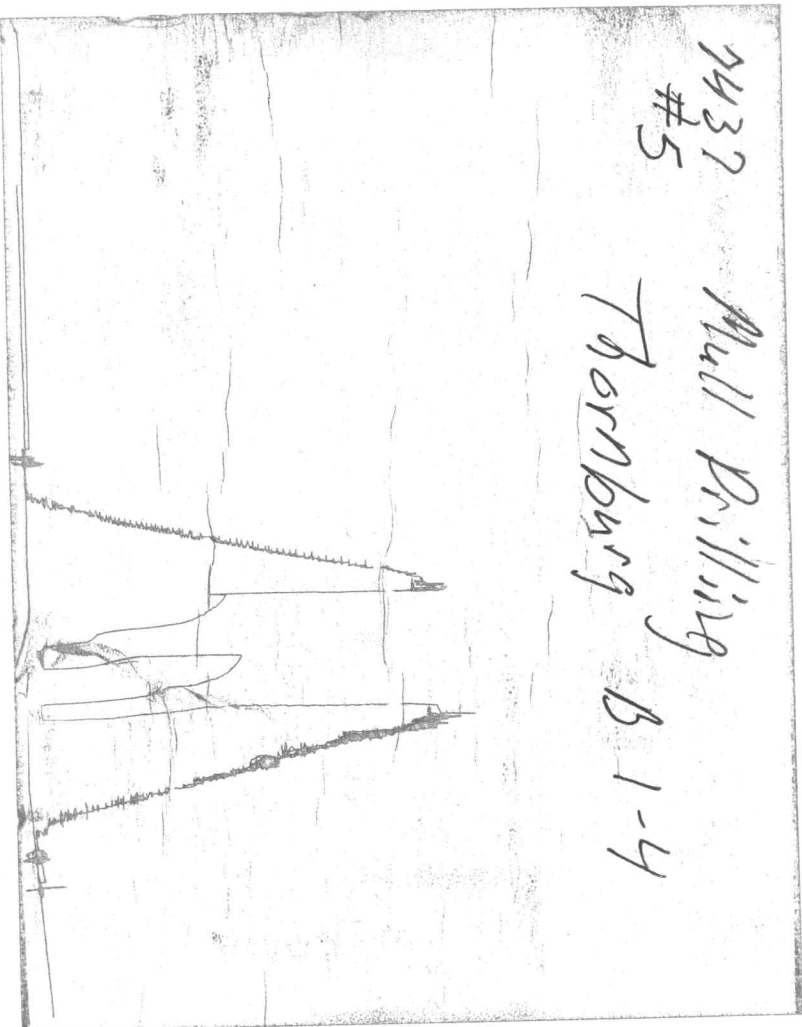
Approved By [Signature]
 Our Representative [Signature]

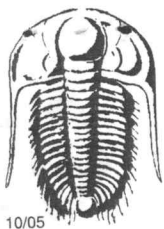
T-On Location 11:10
 T-Started 17:10
 T-Open 19:07
 T-Pulled 20:32
 T-Out 22:30

Test 1200.00
 Jars X 75.00
 Safety Jt X 75.00
 Circ Sub X N/C
 Sampler _____
 Straddle _____
 Ext. Packer _____
 Shale Packer _____
 Ruined Packer _____
 Mileage —
 Sub Total: _____
 Std. By X 225 725
 Acc. Chg: _____
 Other: _____
 Total: \$1500

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26296

Test Ticket

Well Name & No. Thornburg B 1-4 Test No. 6 Date 10-7-06
 Company Mull Drilling Company Zone Tested MISS.
 Address P.O. Box 2758 Wichita, KS 67201 Elevation 2621 KB 2616 GL
 Co. Rep / Geo. Dave Goldak Rig WW #2
 Location: Sec. 4 Twp. 16S Rge. 26W Co. Ness State KS
 Comment: _____ Release date / time: _____

Interval Tested 4532 4553 Initial Str Wt./Lbs. 54,000 Unseated Str Wt/Lbs. 54,000
 Anchor Length 21 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4532 Tool Weight 1500
 Bottom Packer Depth 4553 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4612 Wt. Pipe Run — Drill Collar Run 182
 Mud Wt. 9.3 LCM 2 Vis. 47 WL 8.8 Drill Pipe Size 4 1/2 x H Ft. Run 4334
 Blow Description IF: 1/4 blow built to 1 1/2 in 10 min.
IS: No return.
FF: Surface blow built to 2 in 60 min.
FS: No return.

Recovery - Total Feet 120 GIP — Ft. in DC 120 Ft. in DP —
 Rec. 5 Feet of Free oil %gas 100 %oil — %water — %mud —
 Rec. 115 Feet of dm %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 127 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 3200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	6772	Test X	1200.00
(B) First Initial Flow Pressure	2310	PSI	(depth)	4533	Jars	—
(C) First Final Flow Pressure	44	PSI	Recorder No.	1074	Safety Jt. X	75.00
(D) Initial Shut-In Pressure	26	PSI	(depth)	4531	Circ Sub X	N/C
(E) Second Initial Flow Pressure	1250	PSI	Recorder No.	7437	Sampler	—
(F) Second Final Flow Pressure	28	PSI	(depth)	4612	Straddle X	600.00
(G) Final Shut-In Pressure	64	PSI	Initial Opening	10	Ext. Packer	—
(Q) Final Hydrostatic Mud	1219	PSI	Initial Shut-In	30	Shale Packer	—
	2251	PSI	Final Flow	60	Ruined Packer	—
			Final Shut-In	120	Mileage	110 -137.50

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Approved By

Our Representative

T-On Location

T-Started

T-Open

T-Pulled

T-Out

Sub Total:

Std. By

Acc. Chg:

Other:

Total:

CHART PAGE

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

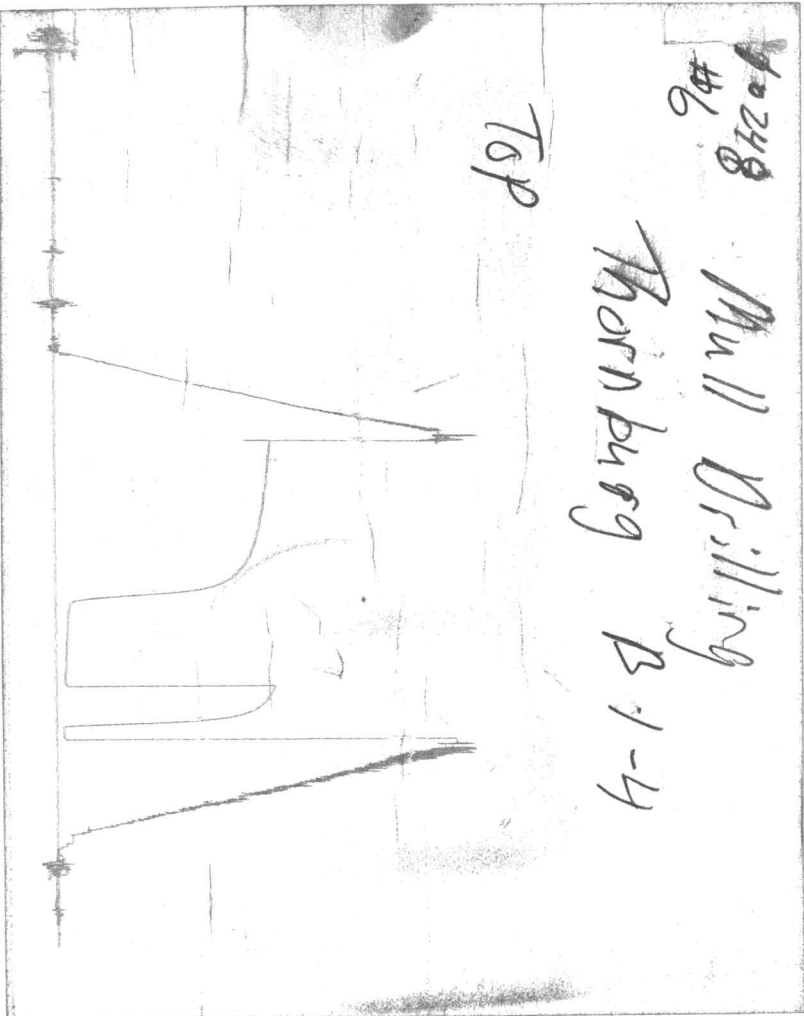


CHART PAGE

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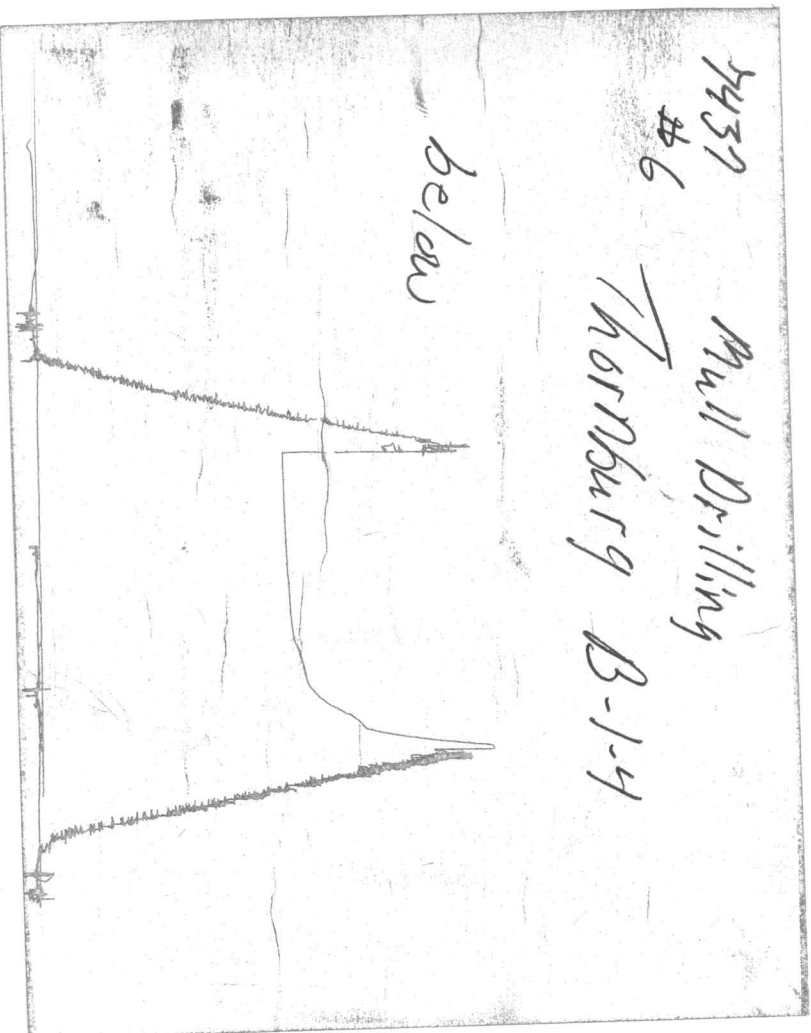


CHART PAGE

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