

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **MA Yost Operations Inc**

PO Box 811
Russell KS 67665

ATTN: Jack Yost

23 20S 16W Pawnee KS

Nelson"A" # 4

Start Date: 2006.10.02 @ 13:55:53

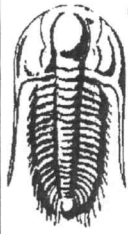
End Date: 2006.10.02 @ 22:58:38

Job Ticket #: 25171 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

MA Yost Operations Inc

Nelson "A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

Job Ticket: 25171

DST#: 1

ATTN: Jack Yost

Test Start: 2006.10.02 @ 13:55:53

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:36:38

Time Test Ended: 22:58:38

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3707.00 ft (KB) To 3766.00 ft (KB) (TVD)

Reference Elevations: 2008.00 ft (KB)

Total Depth: 3766.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 100.21 psig @ 3711.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.02

End Date:

2006.10.02

Last Calib.: 2006.10.02

Start Time: 13:55:58

End Time:

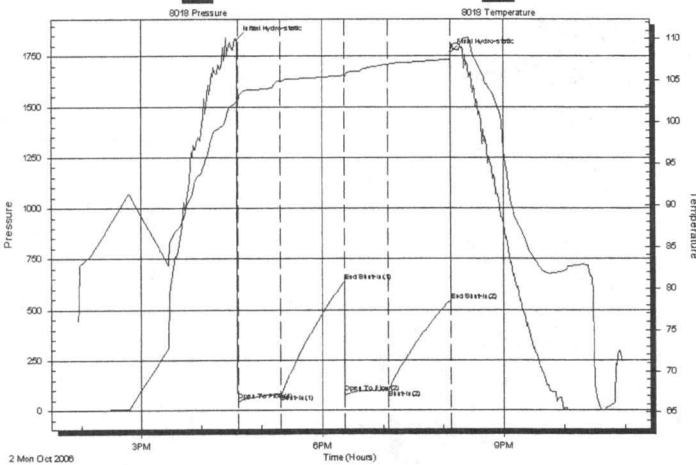
22:58:38

Time On Btm: 2006.10.02 @ 16:35:23

Time Off Btm: 2006.10.02 @ 20:07:22

TEST COMMENT: IF Strong BOB 45 Sec.
ISI Dead
FF Strong BOB 15 Sec.
FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.79	102.35	Initial Hydro-static
2	49.18	102.30	Open To Flow (1)
43	81.71	104.91	Shut-In(1)
107	637.87	105.57	End Shut-In(1)
107	87.10	105.36	Open To Flow (2)
150	100.21	106.93	Shut-In(2)
212	543.57	107.51	End Shut-In(2)
212	1767.56	108.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	D.Mud few Oil spots	1.31
0.00	2640 Gas in Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MA Yost Operations Inc

Nelson "A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

Job Ticket: 25171

DST#: 1

ATTN: Jack Yost

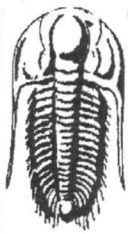
Test Start: 2006.10.02 @ 13:55:53

Tool Information

Drill Pipe:	Length: 3519.00 ft	Diameter: 3.80 inches	Volume: 49.36 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 50.25 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3707.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	79.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3688.00	
Shut In Tool	5.00			3693.00	
Hydraulic tool	5.00			3698.00	
Packer	4.00			3702.00	20.00 Bottom Of Top Packer
Packer	5.00			3707.00	
Stubb	1.00			3708.00	
Perforations	2.00			3710.00	
Change Over Sub	1.00			3711.00	
Recorder	0.00	8018	Inside	3711.00	
Blank Spacing	31.00			3742.00	
Change Over Sub	1.00			3743.00	
Recorder	0.00	11084	Outside	3743.00	
Perforations	20.00			3763.00	
Bullnose	3.00			3766.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

MA Yost Operations Inc

Nelson "A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

ATTN: Jack Yost

Job Ticket: 25171

DST#: 1

Test Start: 2006.10.02 @ 13:55:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.48 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	D.Mud few Oil spots	1.306
0.00	2640 Gas in Pipe	0.000

Total Length: 210.00 ft Total Volume: 1.306 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

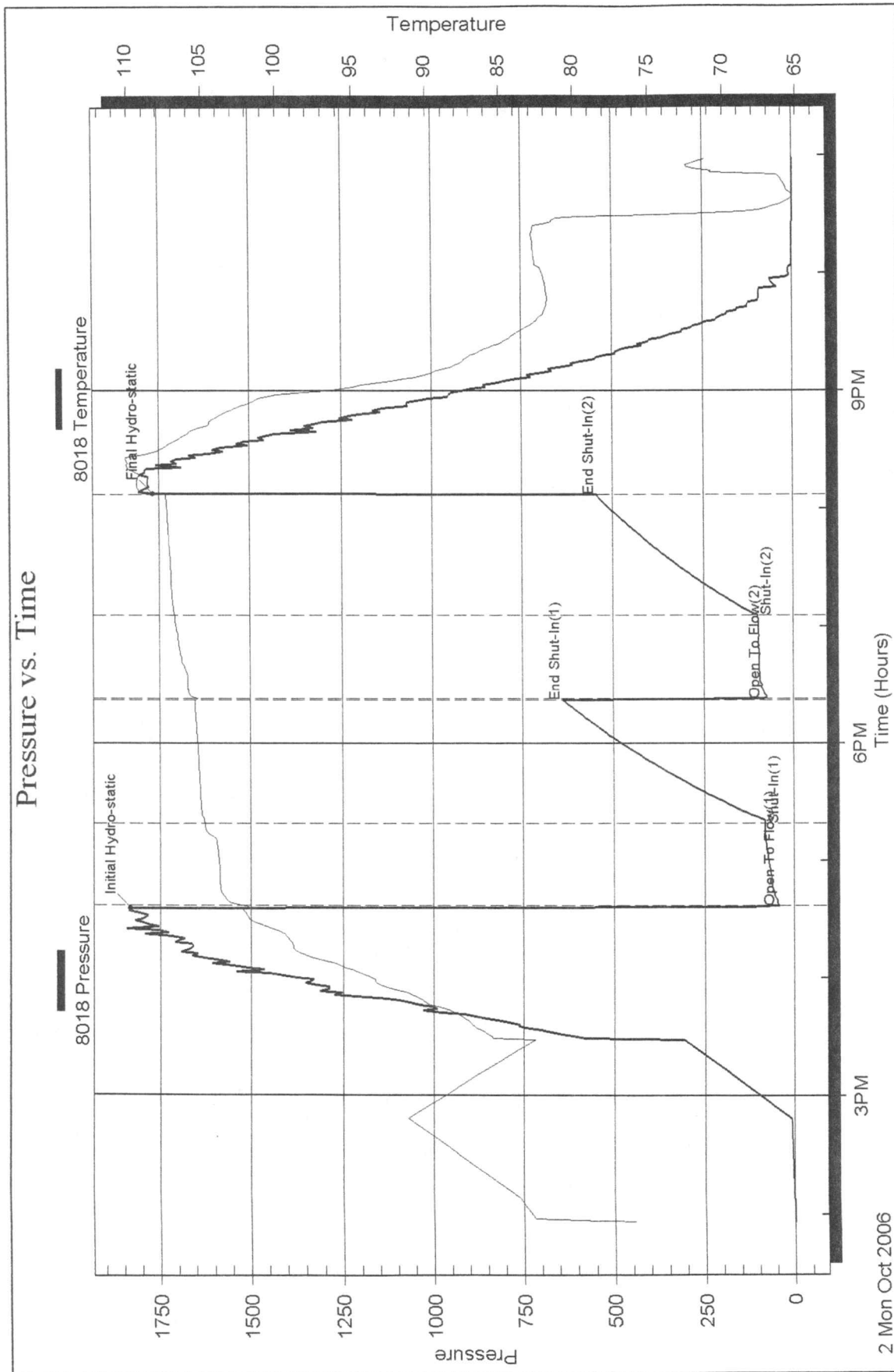
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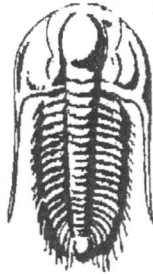
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **MA Yost Operations Inc**

PO Box 811
Russell KS 67665

ATTN: Jack Yost

23 20S 16W Pawnee KS

Nelson"A" # 4

Start Date: 2006.08.03 @ 17:08:56

End Date: 2006.08.04 @ 04:26:56

Job Ticket #: 25172 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

MA Yost Operations Inc

PO Box 811
Russell KS 67665

ATTN: Jack Yost

Nelson "A" # 4

23 20S 16W Pawnee KS

Job Ticket: 25172

DST#: 2

Test Start: 2006.08.03 @ 17:08:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:26

Time Test Ended: 04:26:56

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 31

Interval: **3766.00 ft (KB) To 3810.00 ft (KB) (TVD)**

Total Depth: 3884.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2008.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 1166.67 psig @ 3772.00 ft (KB)

Start Date: 2006.08.03

End Date:

2006.08.04

Start Time: 17:09:01

End Time:

04:26:56

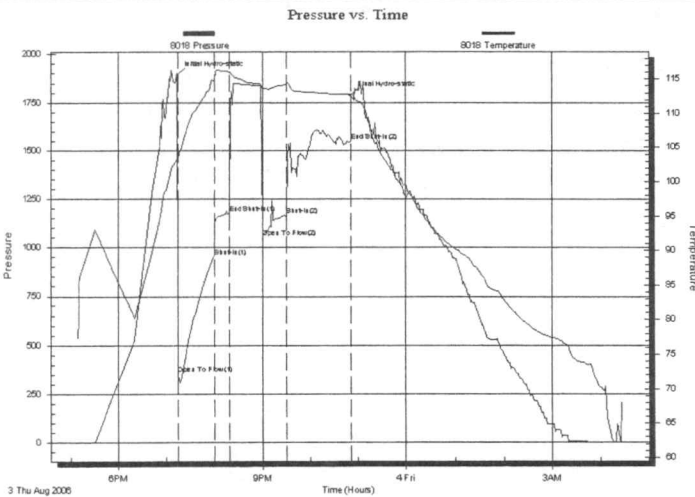
Capacity: 7000.00 psig

Last Calib.: 2006.10.04

Time On Btm: 2006.08.03 @ 19:13:56

Time Off Btm: 2006.08.03 @ 22:51:10

TEST COMMENT: IF Strong BOB 30 Sec. G.T.S. in 35 min.
ISI Strong BOB 1 min.
FF Strong BOB 5 Sec.
FSI Strong BOB 1 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.48	103.51	Initial Hydro-static
1	354.59	103.32	Open To Flow (1)
46	953.85	114.75	Shut-In(1)
65	1174.52	115.95	End Shut-In(1)
107	1050.87	113.64	Open To Flow (2)
137	1166.67	114.30	Shut-In(2)
217	1547.21	112.74	End Shut-In(2)
218	1786.30	112.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2460.00	SW	32.87
320.00	GOCW 20%G 10%O 70%W	4.49
320.00	GMWCO 30%G 10%M 10%W 50%O	4.49
250.00	GWCO 20%G 10%W 70%O	3.51
120.00	Gassy Mud 40%G 60%M	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MA Yost Operations Inc

Nelson "A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

Job Ticket: 25172

DST#: 2

ATTN: Jack Yost

Test Start: 2006.08.03 @ 17:08:56

Tool Information

Drill Pipe:	Length: 3586.00 ft	Diameter: 3.80 inches	Volume: 50.30 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 51.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3766.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	3810.00 ft			
Interval between Packers:	44.00 ft			
Tool Length:	138.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3747.00	
Shut In Tool	5.00			3752.00	
Hydraulic tool	5.00			3757.00	
Packer	4.00			3761.00	20.00 Bottom Of Top Packer
Packer	5.00			3766.00	
Stubb	1.00			3767.00	
Perforations	5.00			3772.00	
Recorder	0.00	8018	Inside	3772.00	
Change Over Sub	1.00			3773.00	
Blank Spacing	31.00			3804.00	
Change Over Sub	1.00			3805.00	
Perforations	4.00			3809.00	
Blank Off Sub	1.00			3810.00	44.00 Tool Interval
Packer	0.00			3810.00	
Stubb	1.00			3811.00	
Perforations	4.00			3815.00	
Change Over Sub	1.00			3816.00	
Recorder	0.00	11084		3816.00	
Blank Spacing	62.00			3878.00	
Change Over Sub	1.00			3879.00	
Perforations	2.00			3881.00	
Bullnose	3.00			3884.00	74.00 Bottom Packers & Anchor

Total Tool Length: 138.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

MA Yost Operations Inc

Nelson "A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

Job Ticket: 25172

DST#: 2

ATTN: Jack Yost

Test Start: 2006.08.03 @ 17:08:56

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	25000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.48 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2460.00	SW	32.868
320.00	GOCW 20%G 10%O 70%W	4.489
320.00	GMWCO 30%G 10%M 10%W 50%O	4.489
250.00	GWCO 20%G 10%W 70%O	3.507
120.00	Gassy Mud 40%G 60%M	1.683

Total Length: 3470.00 ft Total Volume: 47.036 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

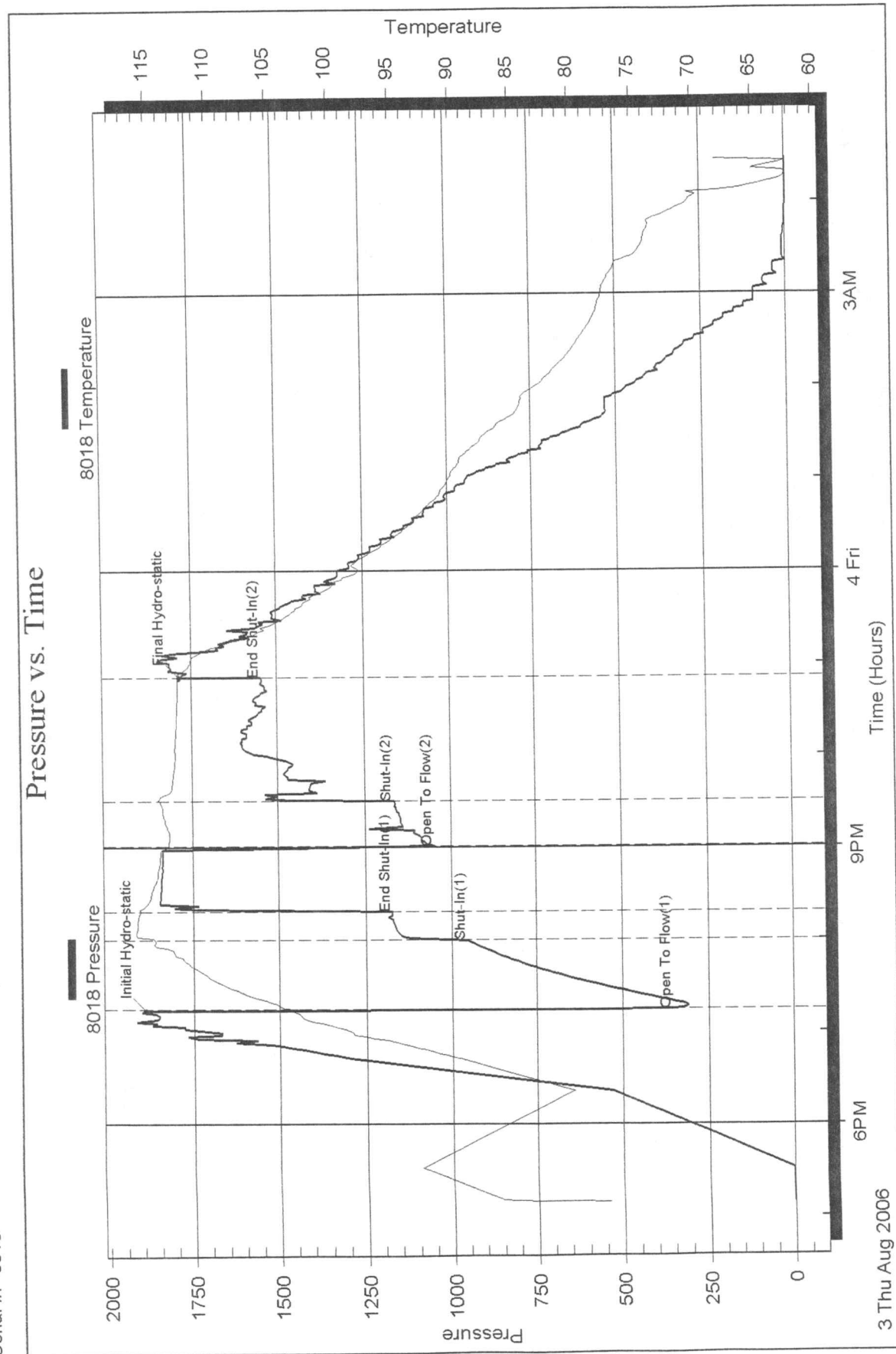
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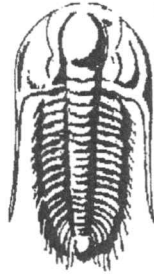
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **MA Yost Operations Inc**

PO Box 811
Russell KS 67665

ATTN: Jack Yost

23 20S 16W Pawnee KS

Nelson"A" # 4

Start Date: 2006.10.04 @ 04:53:43

End Date: 2006.10.04 @ 15:05:28

Job Ticket #: 25173 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

MA Yost Operations Inc

PO Box 811
Russell KS 67665

ATTN: Jack Yost

Nelson "A" # 4

23 20S 16W Pawnee KS

Job Ticket: 25173 DST#: 3

Test Start: 2006.10.04 @ 04:53:43

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:15:43
 Time Test Ended: 15:05:28

Test Type: Conventional Straddle
 Tester: John Schmidt
 Unit No: 31

Interval: **3798.00 ft (KB) To 3809.00 ft (KB) (TVD)**
 Total Depth: 3884.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2008.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8018

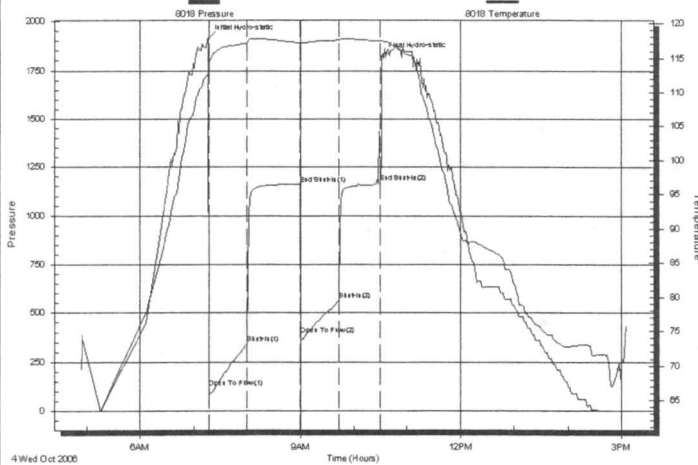
Inside

Press@RunDepth: 565.34 psig @ 3799.00 ft (KB)
 Start Date: 2006.10.04 End Date: 2006.10.04
 Start Time: 04:53:48 End Time: 15:05:28

Capacity: 7000.00 psig
 Last Calib.: 2006.10.04
 Time On Btm: 2006.10.04 @ 07:15:13
 Time Off Btm: 2006.10.04 @ 10:31:58

TEST COMMENT: IF Strong BOB30 Sec. GTS in 20 min.
 ISI Strong BOB 6 min.
 FF Strong BOB 2 min.
 FSI Strong BOB 1 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.49	112.64	Initial Hydro-static
1	119.18	112.49	Open To Flow (1)
45	341.47	117.12	Shut-In(1)
104	1163.03	117.20	End Shut-In(1)
105	389.32	116.74	Open To Flow (2)
149	565.34	117.56	Shut-In(2)
195	1169.60	117.46	End Shut-In(2)
197	1821.52	117.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1020.00	Gassy SW 15%G 85%W	12.67
680.00	Gassy Oil 30%G 70%O	9.54

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MA Yost Operations Inc

Nelson "A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

Job Ticket: 25173 **DST#: 3**

ATTN: Jack Yost

Test Start: 2006.10.04 @ 04:53:43

Tool Information

Drill Pipe:	Length: 3616.00 ft	Diameter: 3.80 inches	Volume: 50.72 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3798.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	3809.00 ft			
Interval between Packers:	11.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3779.00	
Shut In Tool	5.00			3784.00	
Hydraulic tool	5.00			3789.00	
Packer	4.00			3793.00	20.00 Bottom Of Top Packer
Packer	5.00			3798.00	
Stubb	1.00			3799.00	
Recorder	0.00	8018	Inside	3799.00	
Perforations	9.00			3808.00	
Blank Off Sub	1.00			3809.00	11.00 Tool Interval
Packer	0.00			3809.00	
Stubb	1.00			3810.00	
Perforations	5.00			3815.00	
Change Over Sub	1.00			3816.00	
Recorder	0.00	11084		3816.00	
Blank Spacing	62.00			3878.00	
Change Over Sub	1.00			3879.00	
Perforations	2.00			3881.00	
Bullnose	3.00			3884.00	75.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

MA Yost Operations Inc

Nelson"A" # 4

PO Box 811
Russell KS 67665

23 20S 16W Pawnee KS

Job Ticket: 25173

DST#: 3

ATTN: Jack Yost

Test Start: 2006.10.04 @ 04:53:43

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 35000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.48 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1020.00	Gassy SW 15%G 85%W	12.668
680.00	Gassy Oil 30%G 70%O	9.539

Total Length: 1700.00 ft Total Volume: 22.207 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

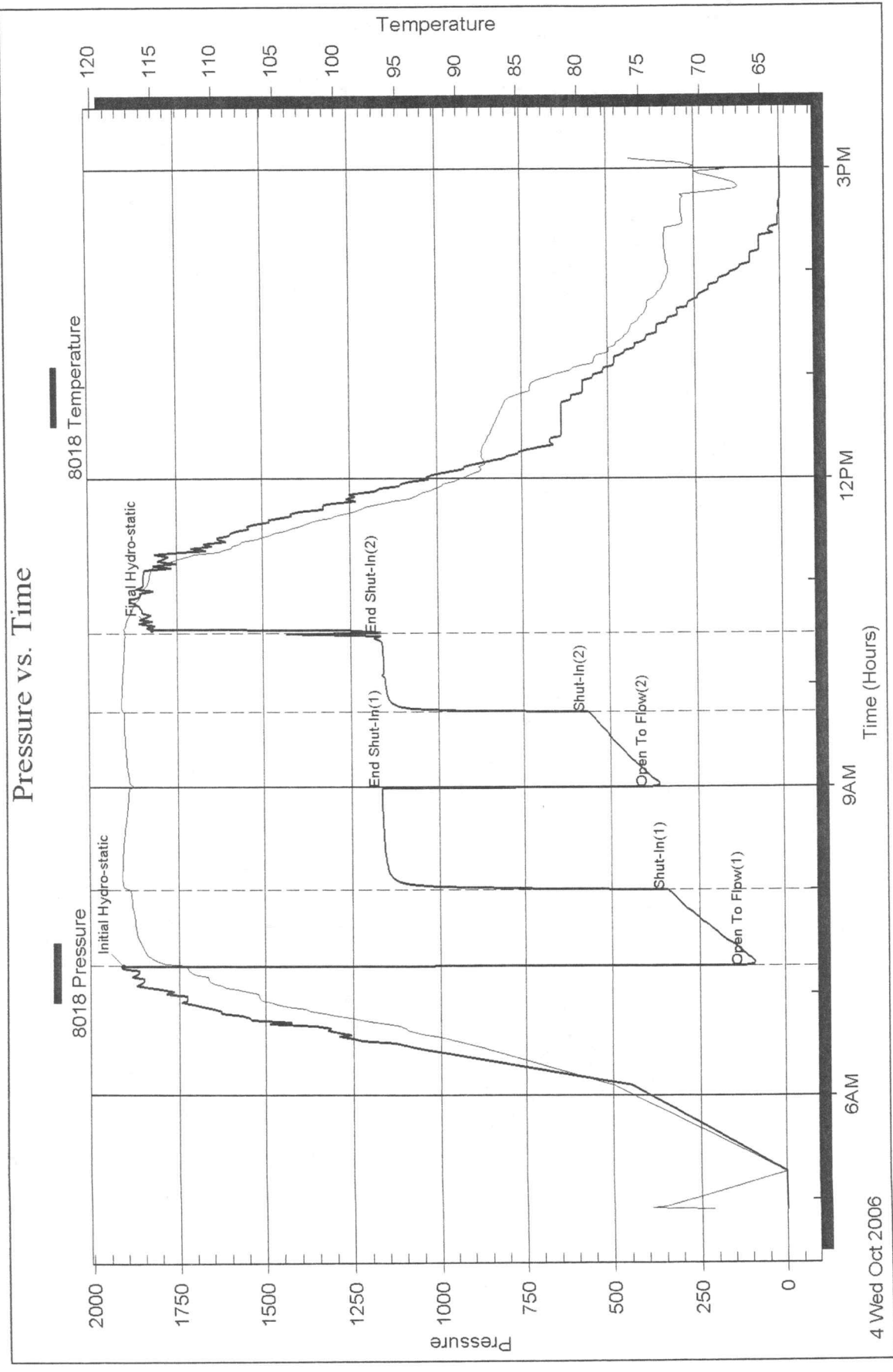
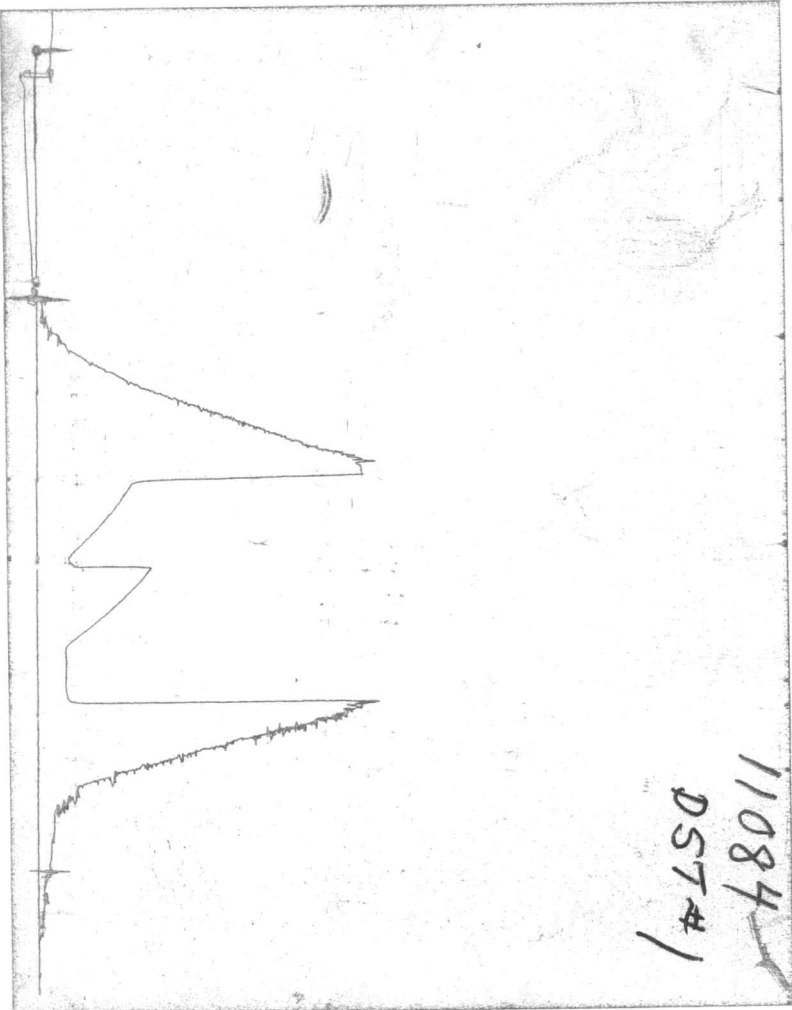


CHART PAGE

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



MA YOST
NELSON #4

CHART PAGE

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

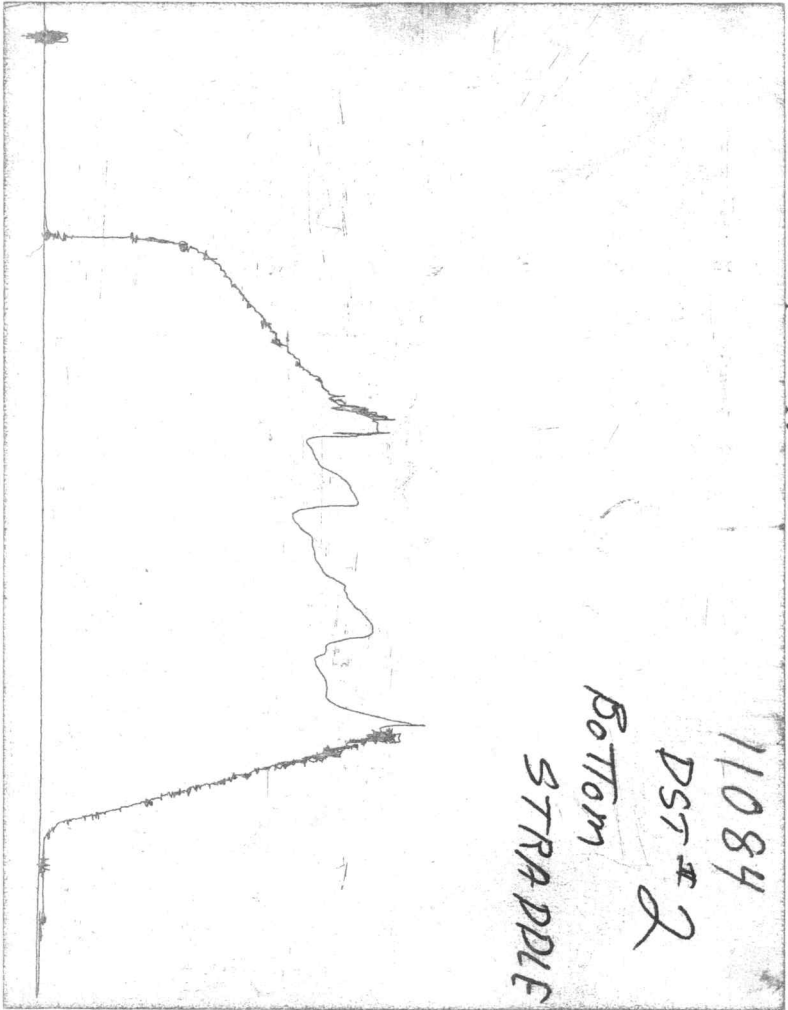


CHART PAGE

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

