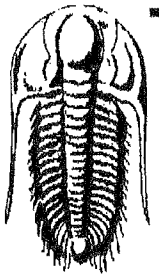
15-065-23286 14-10s-21w KGS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS 67846

ATTN: Marc Downing

14 10 21 Graham KS

Acheson 1-14

Start Date: 2007.02.28 @ 05:02:16
End Date: 2007.02.28 @ 11:33:46
Job Ticket #: 28228 DST #: 1

KCC
MAY 10 2007
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 14 2007
CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

American Warrior
Acheson 1-14
14 10 21 Graham KS
DST #1

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dow ning

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28228 **DST#: 1**

Test Start: 2007.02.28 @ 05:02:16

GENERAL INFORMATION:

Formation: **LKC- C- D- E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:06:16
Time Test Ended: 11:33:46

Test Type: Conventional Bottom Hole
Tester: Michael Armbrister
Unit No: 28

Interval: 3496.00 ft (KB) To 3554.00 ft (KB) (TVD)
Total Depth: 3554.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

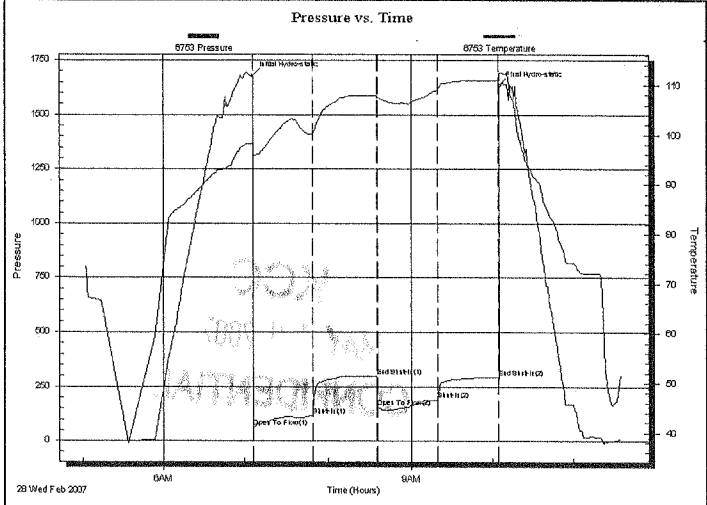
Reference Elevations: 2225.00 ft (KB)
2215.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 189.07 psig @ 3512.01 ft (KB)
Start Date: 2007.02.28 End Date: 2007.02.28
Start Time: 05:02:21 End Time: 11:33:45

Capacity: 7000.00 psig
Last Calib.: 2007.02.28
Time On Btm: 2007.02.28 @ 07:05:46
Time Off Btm: 2007.02.28 @ 10:05:16

TEST COMMENT: IF B of B 20 m
ISI Dead
FF Slow ly Built to 7 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.48	98.17	Initial Hydro-static
1	61.20	95.92	Open To Flow (1)
43	117.24	100.10	Shut-In(1)
89	296.70	107.97	End Shut-In(1)
90	155.42	107.58	Open To Flow (2)
134	189.07	109.26	Shut-In(2)
179	292.79	110.93	End Shut-In(2)
180	1636.30	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
312.00	SlightlyMudCutSaltWater 6%M 94%SW	4.10

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dow ning

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28228 **DST#: 1**

Test Start: 2007.02.28 @ 05:02:16

Tool Information

Drill Pipe:	Length:	3470.00 ft	Diameter:	3.80 inches	Volume:	48.67 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	
					Total Volume:	48.82 bbl	

Drill Pipe Above KB:	25.00 ft
Depth to Top Packer:	3496.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	58.02 ft
Tool Length:	79.02 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	90000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	56000.00 lb
Final	56000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3476.00		
Shut In Tool	5.00			3481.00		
Hydraulic tool	5.00			3486.00		
Packer	5.00			3491.00	21.00	Bottom Of Top Packer
Packer	5.00			3496.00		
Stubb	1.00			3497.00		
Perforations	15.00			3512.00		
Recorder	0.01	6753	Inside	3512.01		
Change Over Sub	1.00			3513.01		
Drill Pipe	32.00			3545.01		
Change Over Sub	1.00			3546.01		
Perforations	5.00			3551.01		
Recorder	0.01	13534	Outside	3551.02		
Bullnose	3.00			3554.02	58.02	Bottom Packers & Anchor
Total Tool Length:	**79.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dowming

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28228 **DST#: 1**

Test Start: 2007.02.28 @ 05:02:16

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

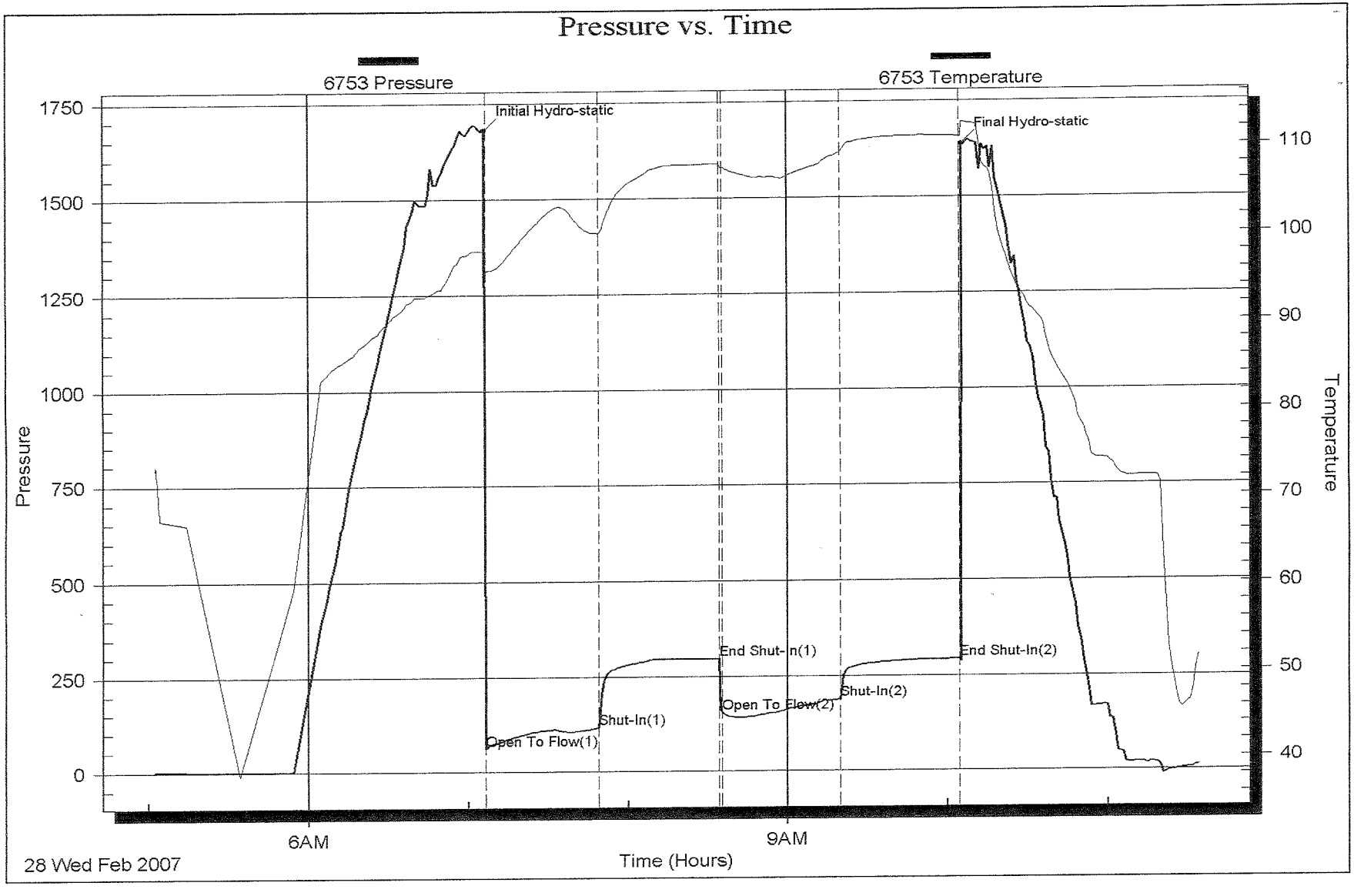
Recovery Information

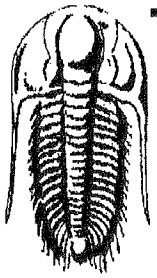
Recovery Table

Length ft	Description	Volume bbl
312.00	SlightlyMudCutSaltWater 6%M 94%SW	4.103

Total Length: 312.00 ft Total Volume: 4.103 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6753 Pressure
6753 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
6AM
9AM
28 Wed Feb 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS 67846

ATTN: Marc Downing

14 10 21 Graham KS

Acheson 1-14

Start Date: 2007.02.28 @ 23:25:15
End Date: 2007.03.01 @ 03:10:45
Job Ticket #: 28229 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dow ning

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28229 **DST#: 2**

Test Start: 2007.02.28 @ 23:25:15

GENERAL INFORMATION:

Formation: **LKC H- I - J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:10:45
Time Test Ended: 03:10:45

Test Type: Conventional Bottom Hole
Tester: Michael Armbrister
Unit No: 28

Interval: 3590.00 ft (KB) To 3660.00 ft (KB) (TVD)
Total Depth: 3660.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

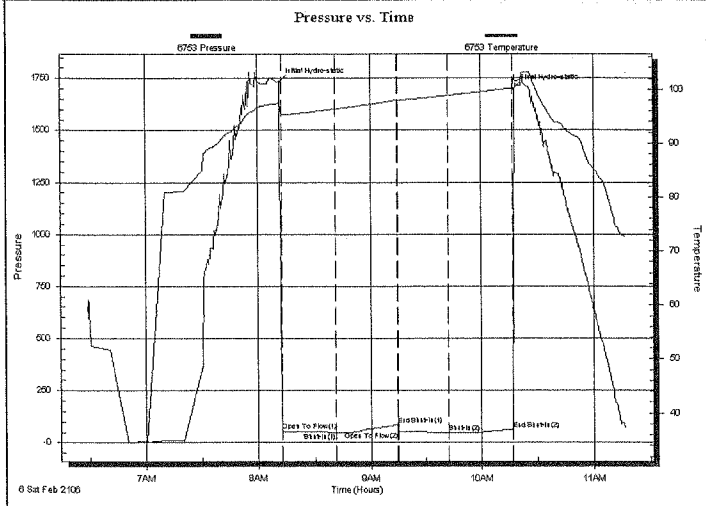
Reference Elevations: 2225.00 ft (KB)
2215.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 47.75 psig @ 3606.01 ft (KB)
Start Date: 2106.02.06 End Date: 2106.02.06
Start Time: 06:28:20 End Time: 11:16:44

Capacity: 7000.00 psig
Last Calib.: 2007.03.01
Time On Btm: 2106.02.06 @ 08:11:45
Time Off Btm: 2106.02.06 @ 10:17:45

TEST COMMENT: IF Weak surface blow died 18 m
ISI Dead
FF Dead
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.71	97.40	Initial Hydro-static
1	55.08	95.22	Open To Flow (1)
30	49.45	96.37	Shut-In(1)
63	86.10	98.01	End Shut-In(1)
63	52.24	97.94	Open To Flow (2)
91	47.75	98.83	Shut-In(2)
126	64.25	100.24	End Shut-In(2)
126	1698.95	102.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Oil spotted mud	0.01

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dow ning

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28229 **DST#: 2**

Test Start: 2007.02.28 @ 23:25:15

Tool Information

Drill Pipe:	Length:	3564.00 ft	Diameter:	3.80 inches	Volume:	49.99 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	50.14 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	58000.00 lb
Depth to Top Packer:		3590.00 ft					Final	58000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		70.02 ft						
Tool Length:		91.02 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			3570.00		
Shut In Tool	5.00			3575.00		
Hydraulic tool	5.00			3580.00		
Packer	5.00			3585.00	21.00	Bottom Of Top Packer
Packer	5.00			3590.00		
Stubb	1.00			3591.00		
Perforations	15.00			3606.00		
Recorder	0.01	6753	Inside	3606.01		
Change Over Sub	1.00			3607.01		
Drill Pipe	32.00			3639.01		
Change Over Sub	1.00			3640.01		
Perforations	17.00			3657.01		
Recorder	0.01	13534	Outside	3657.02		
Bullnose	3.00			3660.02	70.02	Bottom Packers & Anchor
Total Tool Length:	**91.02**					

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Downing

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28229 **DST#: 2**

Test Start: 2007.02.28 @ 23:25:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

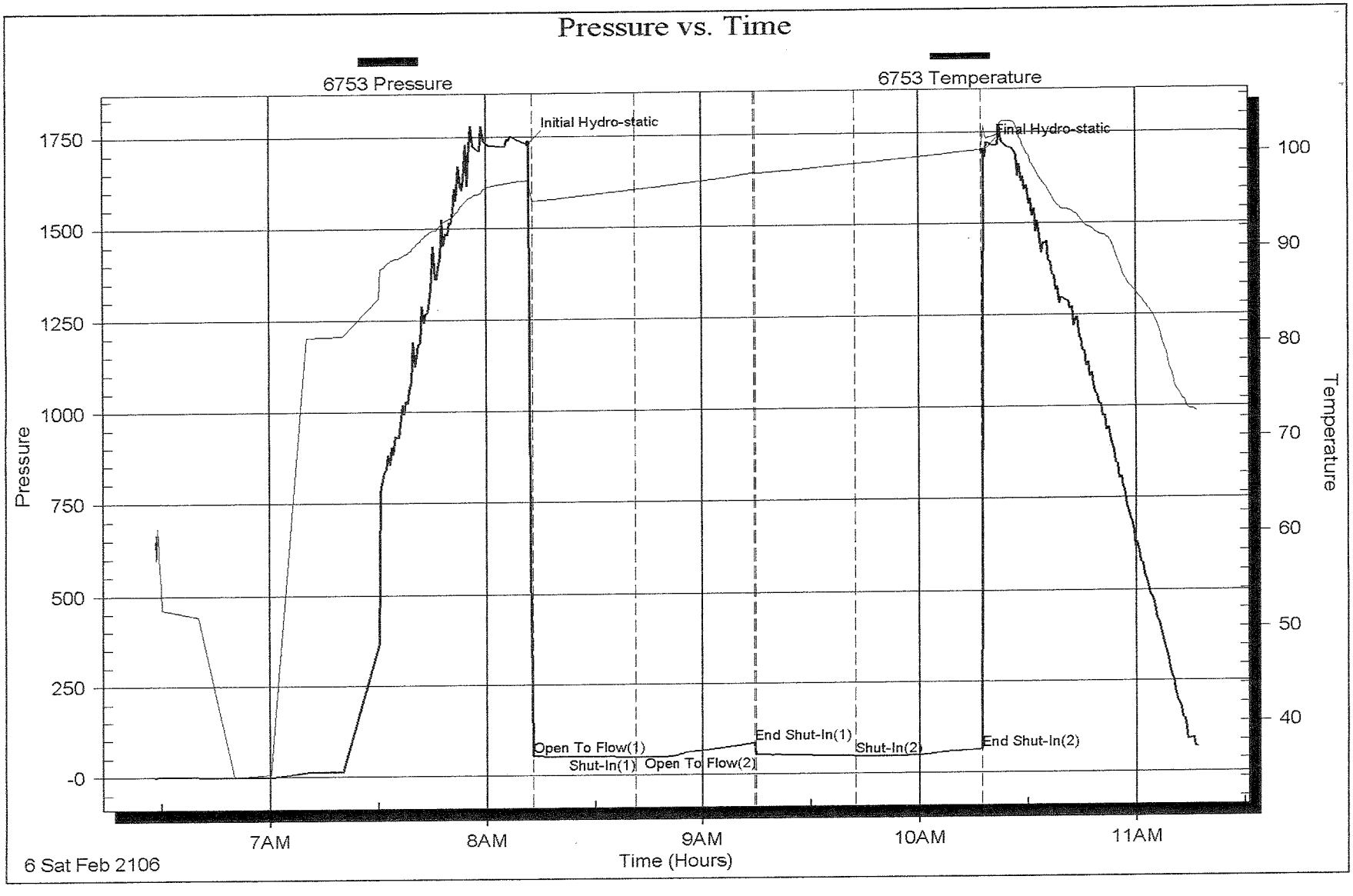
Recovery Information

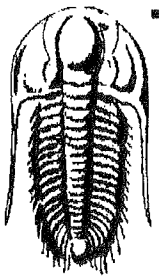
Recovery Table

Length ft	Description	Volume bbl
2.00	Oil spotted mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6753 Pressure
6753 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
End Shut-In(1)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
-0
100
90
80
70
60
50
40
7AM
8AM
9AM
10AM
11AM
Time (Hours)
6 Sat Feb 2106



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS 67846

ATTN: Marc Downing

14 10 21 Graham KS

Acheson 1-14

Start Date: 2007.03.01 @ 16:15:09
End Date: 2007.03.01 @ 22:45:09
Job Ticket #: 28230 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Downing

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28230 **DST#: 3**

Test Start: 2007.03.01 @ 16:15:09

GENERAL INFORMATION:

Formation: **ARB**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:08:39
Time Test Ended: 22:45:09

Test Type: Conventional Bottom Hole
Tester: Michael Armbrister
Unit No: 28

Interval: 3752.00 ft (KB) To 3773.00 ft (KB) (TVD)
Total Depth: 3773.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

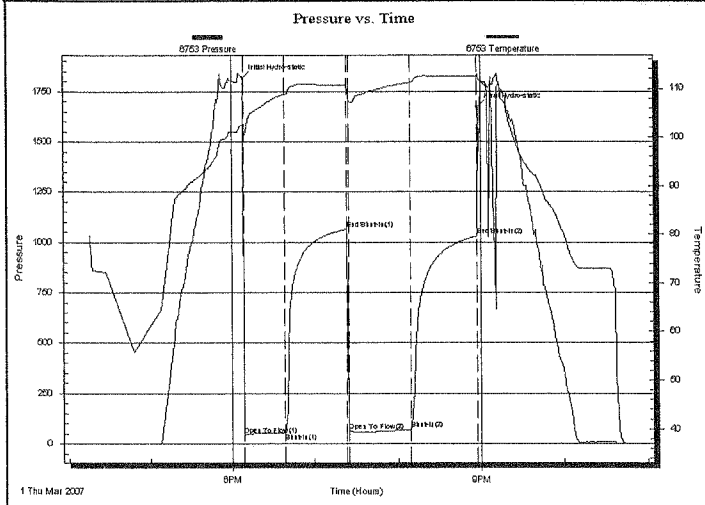
Reference Elevations: 2225.00 ft (KB)
2215.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 70.05 psig @ 3753.01 ft (KB)
Start Date: 2007.03.01 End Date: 2007.03.01
Start Time: 16:15:14 End Time: 22:45:08

Capacity: 7000.00 psig
Last Calib.: 2007.03.01
Time On Btm: 2007.03.01 @ 18:08:09
Time Off Btm: 2007.03.01 @ 20:57:39

TEST COMMENT: IF Slowly built to 5 "
ISI Dead
FF Slowly built to 6 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.95	102.41	Initial Hydro-static
1	43.80	100.02	Open To Flow (1)
31	53.27	108.80	Shut-In(1)
76	1065.37	110.71	End Shut-In(1)
77	63.85	107.83	Open To Flow (2)
121	70.05	111.19	Shut-In(2)
169	1030.21	112.49	End Shut-In(2)
170	1672.66	112.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Clean Oil	0.12
70.00	McutSW 5%O30%M 65%SW	0.94

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dow ning

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28230 **DST#: 3**

Test Start: 2007.03.01 @ 16:15:09

Tool Information

Drill Pipe:	Length:	3720.00 ft	Diameter:	3.80 inches	Volume:	52.18 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	
					Total Volume:	52.33 bbl	

Drill Pipe Above KB:	19.00 ft
Depth to Top Packer:	3752.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	21.02 ft
Tool Length:	42.02 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	120000.0 lb
Tool Chased	0.00 ft
String Weight: Initial	58000.00 lb
Final	59000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3732.00		
Shut In Tool	5.00			3737.00		
Hydraulic tool	5.00			3742.00		
Packer	5.00			3747.00	21.00	Bottom Of Top Packer
Packer	5.00			3752.00		
Stubb	1.00			3753.00		
Recorder	0.01	6753	Inside	3753.01		
Perforations	17.00			3770.01		
Recorder	0.01	13534	Outside	3770.02		
Bullnose	3.00			3773.02	21.02	Bottom Packers & Anchor
Total Tool Length:	**42.02**					

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

PO Box 399
Garden City KS 67846

ATTN: Marc Dow ning

Acheson 1-14

14 10 21 Graham KS

Job Ticket: 28230 **DST#: 3**

Test Start: 2007.03.01 @ 16:15:09

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Clean Oil	0.123
70.00	McutSW 5%O30%M 65%SW	0.936

Total Length: 95.00 ft Total Volume: 1.059 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

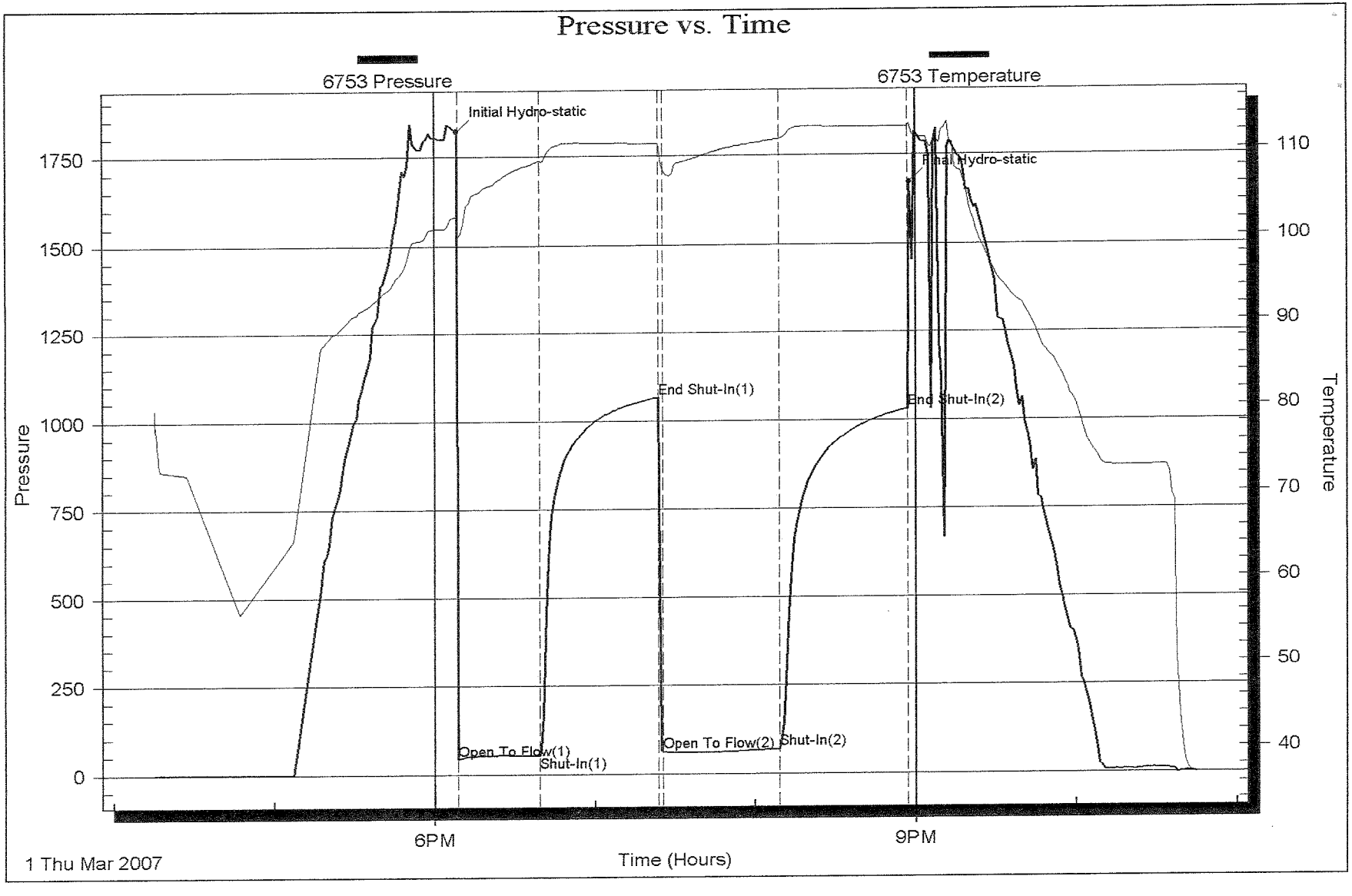

Pressure vs. Time
6753 Pressure
6753 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
Time (Hours)
6PM
9PM
1 Thu Mar 2007
0
250
500
750
1000
1250
1500
1750
40
50
60
70
80
90
100
110

CHART PAGE

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

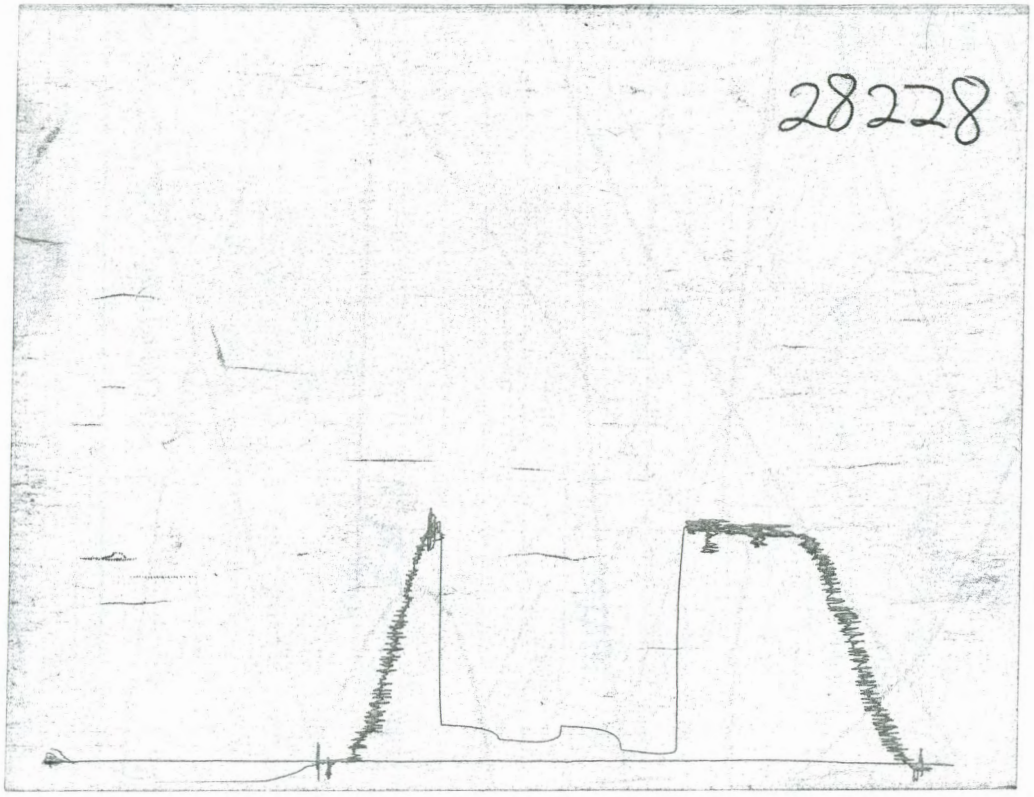


CHART PAGE

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

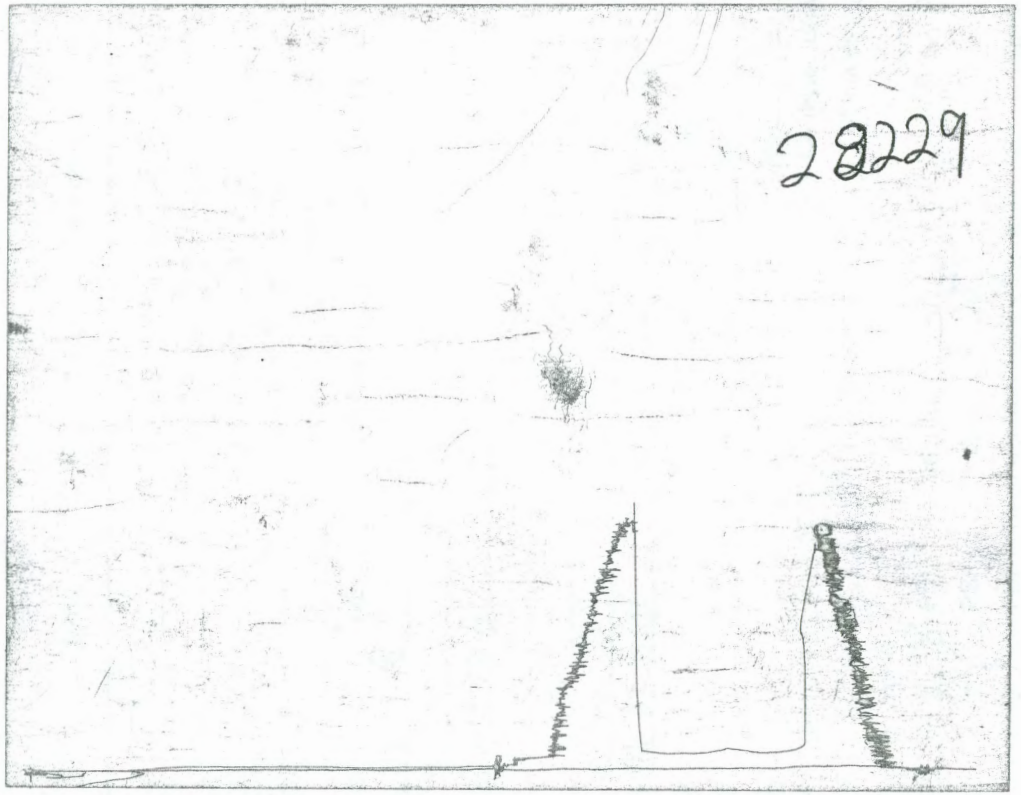


CHART PAGE

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

