

**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior**

PO Box 399  
Garden City KS 67846

**CONFIDENTIAL**  
**DEC 17 2007**  
**KCC**

ATTN: Marc Downing

**13 20S 13W Barton KS**

**Bodine #1-13**

Start Date: 2007.10.23 @ 18:04:02

End Date: 2007.10.24 @ 04:57:02

Job Ticket #: 29367                      DST #: 1

**RECEIVED**  
**KANSAS CORPORATION COMMISSION**

**DEC 17 2007**

**CONSERVATION DIVISION**  
**WICHITA, KS**

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

American Warrior

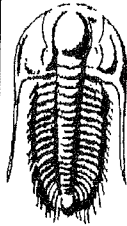
Bodine #1-13

13 20S 13W Barton KS

DST # 1

LKC "B"

2007.10.23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior  
PO Box 399  
Garden City KS 67846  
ATTN: Marc Downing

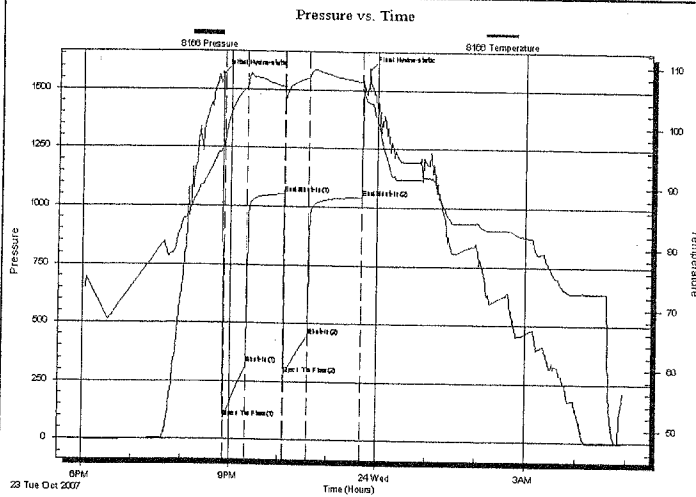
**Bodine #1-13**  
**13 20S 13W Barton KS**  
Job Ticket: 29367      **DST#: 1**  
Test Start: 2007.10.23 @ 18:04:02

## GENERAL INFORMATION:

Formation: **LKC "B"**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 20:51:52  
Time Test Ended: 04:57:02  
Interval: **3217.00 ft (KB) To 3241.00 ft (KB) (TVD)**  
Total Depth: **3241.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Leal Cason**  
Unit No: **24**  
Reference Elevations: **1863.00 ft (KB)**  
**1855.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 8166**      **Inside**  
Press@RunDepth: **448.90 psig @ 3218.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2007.10.23**      End Date: **2007.10.24**      Last Calib.: **2007.10.24**  
Start Time: **18:04:07**      End Time: **04:57:02**      Time On Btm: **2007.10.23 @ 20:49:37**  
Time Off Btm: **2007.10.23 @ 23:50:02**

**TEST COMMENT:** IF Strong Blow BOB in 1 min  
ISI Bled Off Blow back Built To BOB in 20 min  
FF Strong Blow BOB Immediate GTS in 1 min Gas TSTM  
FSI Bled Off Blow back Built To BOB in 40 min



## PRESSURE SUMMARY

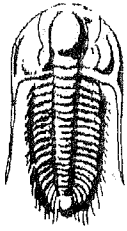
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1566.92	96.16	Initial Hydro-static
3	91.19	97.52	Open To Flow (1)
31	323.77	106.41	Shut-In(1)
76	1053.52	106.50	End Shut-In(1)
77	284.64	104.76	Open To Flow (2)
107	448.90	107.96	Shut-In(2)
172	1042.28	107.41	End Shut-In(2)
181	1586.48	103.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 1221 Feet	0.00
2000.00	GO 10%G 90%O	28.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior

**Bodine #1-13**

PO Box 399  
Garden City KS 67846

**13 20S 13W Barton KS**

Job Ticket: 29367

DST#: 1

ATTN: Marc Downing

Test Start: 2007.10.23 @ 18:04:02

**Tool Information**

Drill Pipe:	Length: 3221.00 ft	Diameter: 3.80 inches	Volume: 45.18 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.18 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3217.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Dropped Bar, Reversed Out

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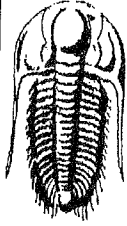
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			3197.00	
Change Over Sub	1.00			3198.00	
Shut In Tool	5.00			3203.00	
Hydraulic tool	5.00			3208.00	
Packer	5.00			3213.00	21.00 Bottom Of Top Packer
Packer	4.00			3217.00	
Stubb	1.00			3218.00	
Recorder	0.00	8166	Inside	3218.00	
Perforations	20.00			3238.00	
Recorder	0.00	6704	Outside	3238.00	
Bullnose	3.00			3241.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**

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WICHITA, KS**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior

**Bodine #1-13**

PO Box 399  
Garden City KS 67846

**13 20S 13W Barton KS**

ATTN: Marc Downing

Job Ticket: 29367

**DST#: 1**

Test Start: 2007.10.23 @ 18:04:02

**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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 1221 Feet	0.000
2000.00	GO 10%G 90%O	28.055

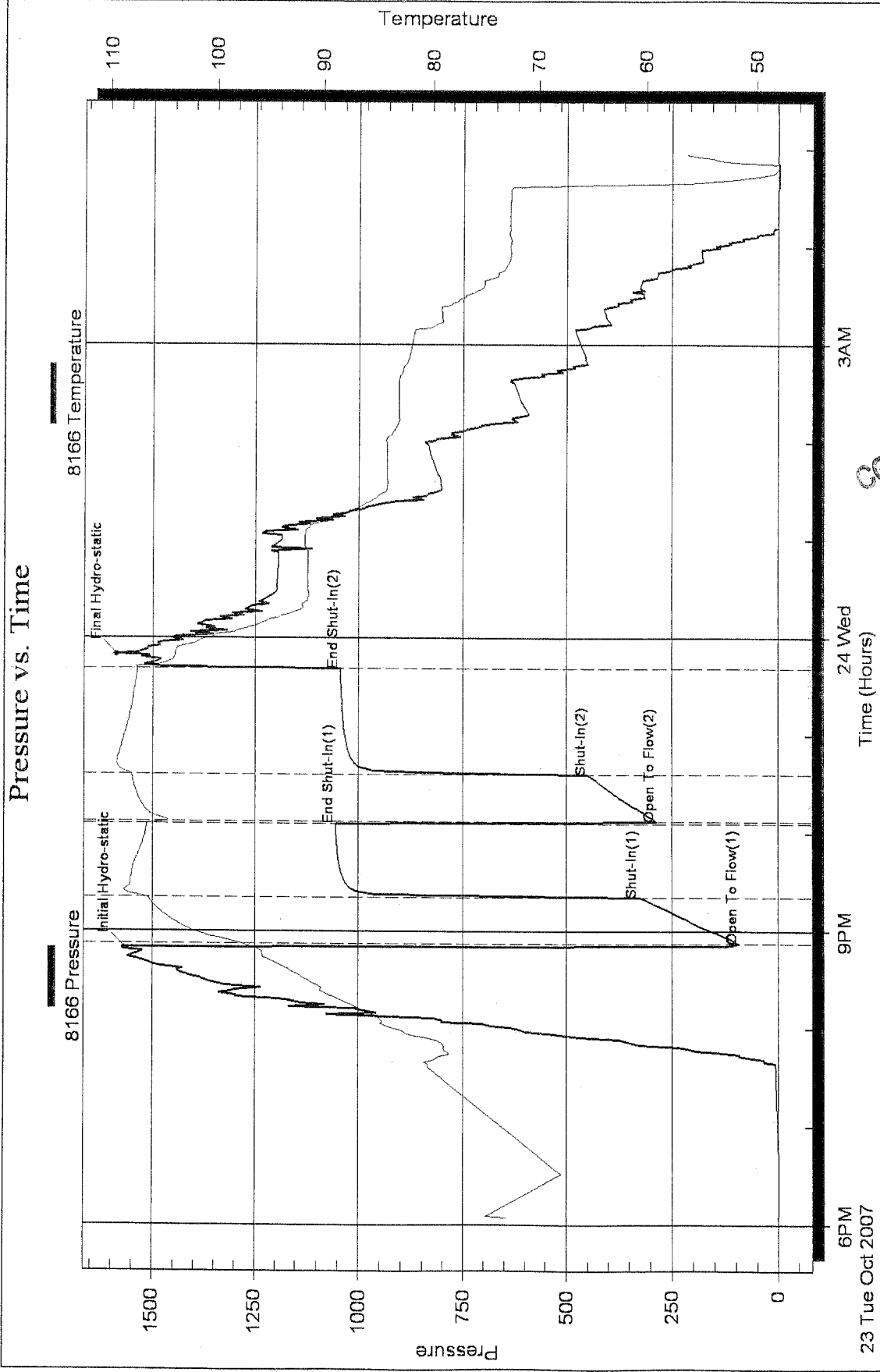
Total Length: 2000.00 ft      Total Volume: 28.055 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Dropped Bar, Reversed Out

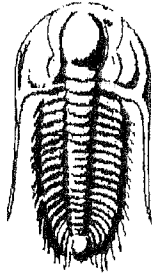
### Pressure vs. Time



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 Conservation Division  
 WICHITA, KS  
 Ref. No. 29367  
 Trilobite Testing, Inc

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**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399  
Garden City KS 67846

ATTN: Marc Downing

**13 20S 13W Barton KS**

**Bodine #1-13**

Start Date: 2007.10.24 @ 13:14:53

End Date: 2007.10.24 @ 20:06:08

Job Ticket #: 29368                      DST #: 2

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

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CONSERVATION DIVISION  
WICHITA, KS

American Warrior

Bodine #1-13

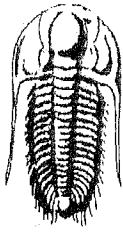
13 20S 13W Barton KS

DST # 2

LKC "D-F"

2007.10.24





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

American Warrior  
PO Box 399  
Garden City KS 67846  
ATTN: Marc Downing

**Bodine #1-13**  
**13 20S 13W Barton KS**  
Job Ticket: 29368      **DST#: 2**  
Test Start: 2007.10.24 @ 13:14:53

**Tool Information**

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>45.62 bbl</b>	Tool Chased: ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3241.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

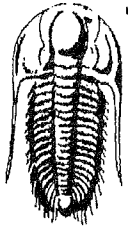
Tool Comments:

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

Circulating sub	1.00			3221.00	
Change Over Sub	1.00			3222.00	
Shut In Tool	5.00			3227.00	
Hydraulic tool	5.00			3232.00	
Packer	5.00			3237.00	21.00      Bottom Of Top Packer
Packer	4.00			3241.00	
Stubb	1.00			3242.00	
Recorder	0.00	8166	Inside	3242.00	
Perforations	31.00			3273.00	
Recorder	0.00	6704	Outside	3273.00	
Bullnose	3.00			3276.00	35.00      Bottom Packers & Anchor

**Total Tool Length:    56.00**

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**WICHITA, KS**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior

**Bodine #1-13**

PO Box 399  
Garden City KS 67846

**13 20S 13W Barton KS**

Job Ticket: 29368

**DST#: 2**

ATTN: Marc Downing

Test Start: 2007.10.24 @ 13:14:53

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 89.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

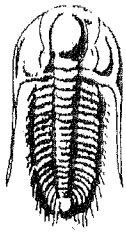
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

American Warrior

**Bodine #1-13**

PO Box 399  
Garden City KS 67846

**13 20S 13W Barton KS**

Job Ticket: 29368

**DST#: 2**

ATTN: Marc Downing

Test Start: 2007.10.24 @ 13:14:53

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	1.00	36.00	1448.94
2	10	1.00	36.00	1448.94
2	20	1.00	23.00	1075.21
2	30	1.00	16.00	873.96
2	45	1.00	16.00	873.96

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WICHITA, KS

Serial #: 8166

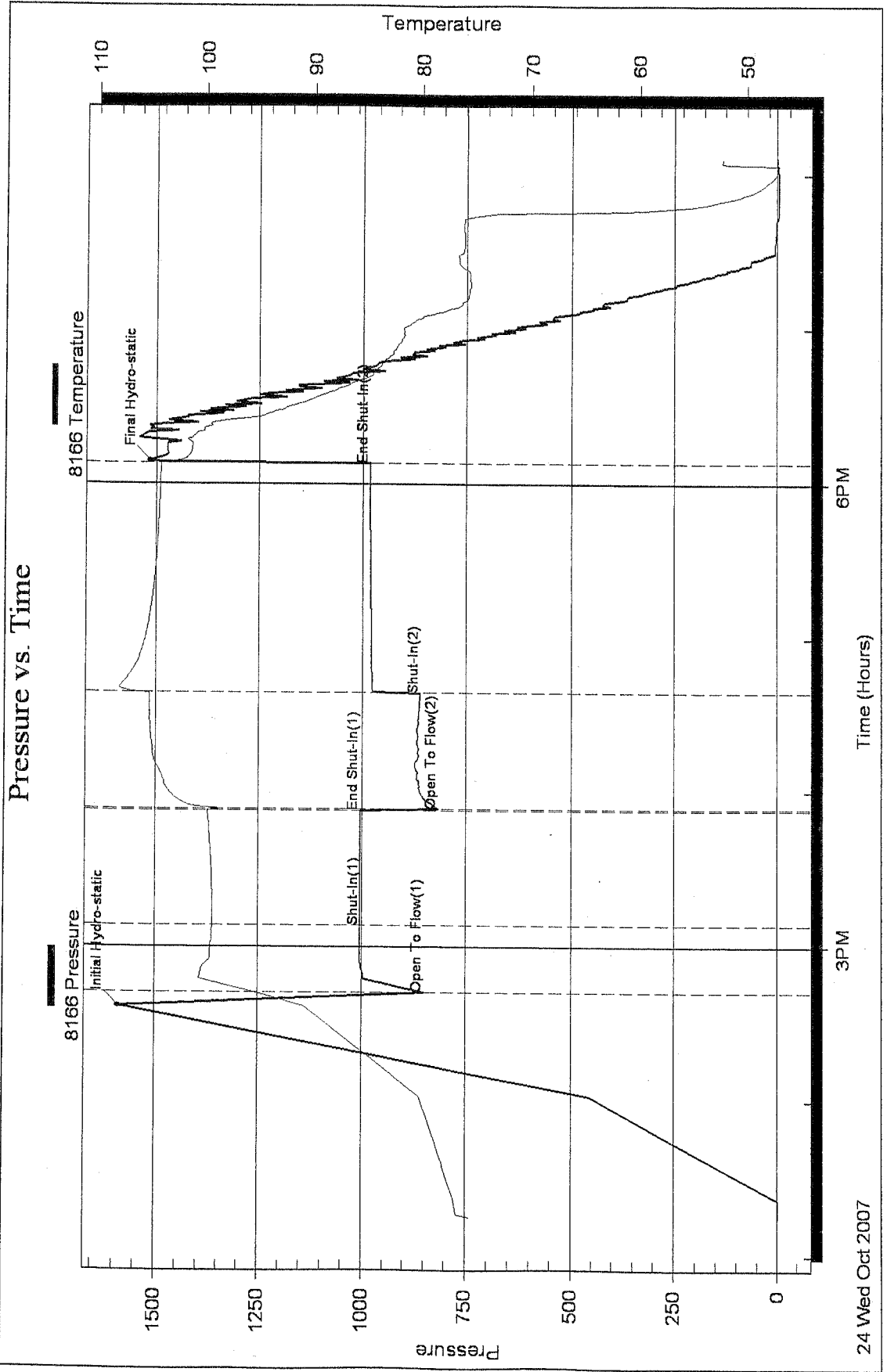
Inside

American Warrior

13 20S 13W Barton KS

DST Test Number: 2

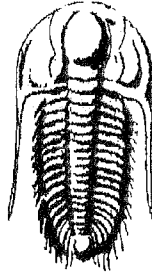
### Pressure vs. Time



24 Wed Oct 2007

3PM

6PM



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399  
Garden City KS 67846

ATTN: Marc Downing

**13 20S 13W Barton KS**

**Bodine #1-13**

Start Date: 2007.10.25 @ 03:20:28

End Date: 2007.10.25 @ 09:53:28

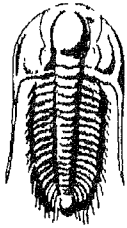
Job Ticket #: 29369                      DST #: 3

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WICHITA, KS

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# DRILL STEM TEST REPORT

American Warrior  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Marc Downing

**Bodine #1-13**  
**13 20S 13W Barton KS**  
 Job Ticket: 29369      **DST#: 3**  
 Test Start: 2007.10.25 @ 03:20:28

## GENERAL INFORMATION:

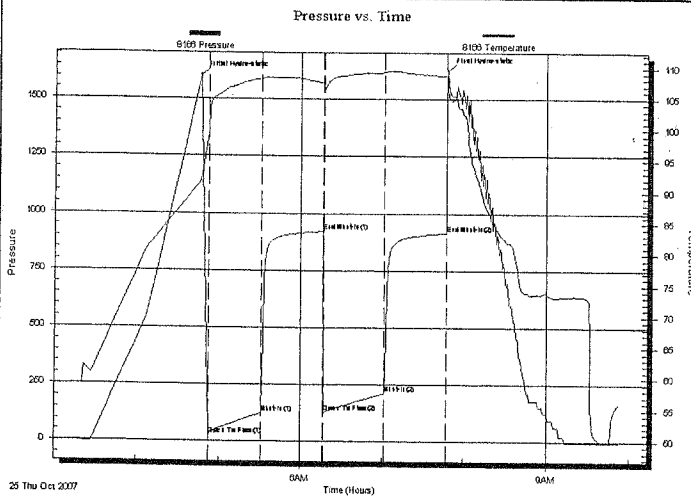
Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:52:28  
 Time Test Ended: 09:53:28  
 Interval: **3281.00 ft (KB) To 3308.00 ft (KB) (TVD)**  
 Total Depth: 3308.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Leal Cason  
 Unit No: 24  
 Reference Elevations: 1863.00 ft (KB)  
 1855.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8166

Inside

Press@RunDepth: 211.38 psig @ 3282.00 ft (KB)  
 Start Date: 2007.10.25 End Date: 2007.10.25 Capacity: 7000.00 psig  
 Start Time: 03:20:33 End Time: 09:53:27 Last Calib.: 2007.10.25  
 Time On Btm: 2007.10.25 @ 04:47:28  
 Time Off Btm: 2007.10.25 @ 07:48:22

TEST COMMENT: IF Weak Blow 4 inches  
 ISI Bled Off No Blow back  
 FF Weak Blow 2 inches  
 FSI Bled Off No Blow back



## PRESSURE SUMMARY

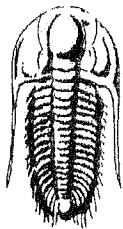
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.12	91.82	Initial Hydro-static
5	25.15	99.51	Open To Flow (1)
44	124.37	108.20	Shut-In(1)
89	921.33	107.55	End Shut-In(1)
89	128.15	106.69	Open To Flow (2)
135	211.38	109.26	Shut-In(2)
180	913.66	108.63	End Shut-In(2)
181	1624.11	106.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
270.00	GSW 10%G 90%W RW .23 @ 41 d	3.79
62.00	GMCW 10%G 4%M 86%W	0.87
37.00	GMCW 10%G 12%M 78%W	0.52
3.00	Clean Oil	0.04

## 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 Downing

**Bodine #1-13**  
**13 20S 13W Barton KS**  
Job Ticket: 29369      DST#: 3  
Test Start: 2007.10.25 @ 03:20:28

**Tool Information**

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 46.05 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3281.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

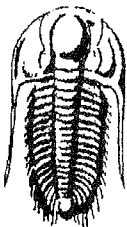
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			3261.00	
Change Over Sub	1.00			3262.00	
Shut In Tool	5.00			3267.00	
Hydraulic tool	5.00			3272.00	
Packer	5.00			3277.00	21.00 Bottom Of Top Packer
Packer	4.00			3281.00	
Stubb	1.00			3282.00	
Recorder	0.00	8166	Inside	3282.00	
Perforations	23.00			3305.00	
Recorder	0.00	6704	Outside	3305.00	
Bullnose	3.00			3308.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**

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WICHITA, KS



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American Warrior  
PO Box 399  
Garden City KS 67846  
ATTN: Marc Downing

**Bodine #1-13**  
**13 20S 13W Barton KS**  
Job Ticket: 29369      DST#: 3  
Test Start: 2007.10.25 @ 03:20:28

## 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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6300.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	GSW 10%G 90%W RW .23 @ 41 d	3.787
62.00	GMCW 10%G 4%M 86%W	0.870
37.00	GMCW 10%G 12%M 78%W	0.519
3.00	Clean Oil	0.042

Total Length: 372.00 ft      Total Volume: 5.218 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8166

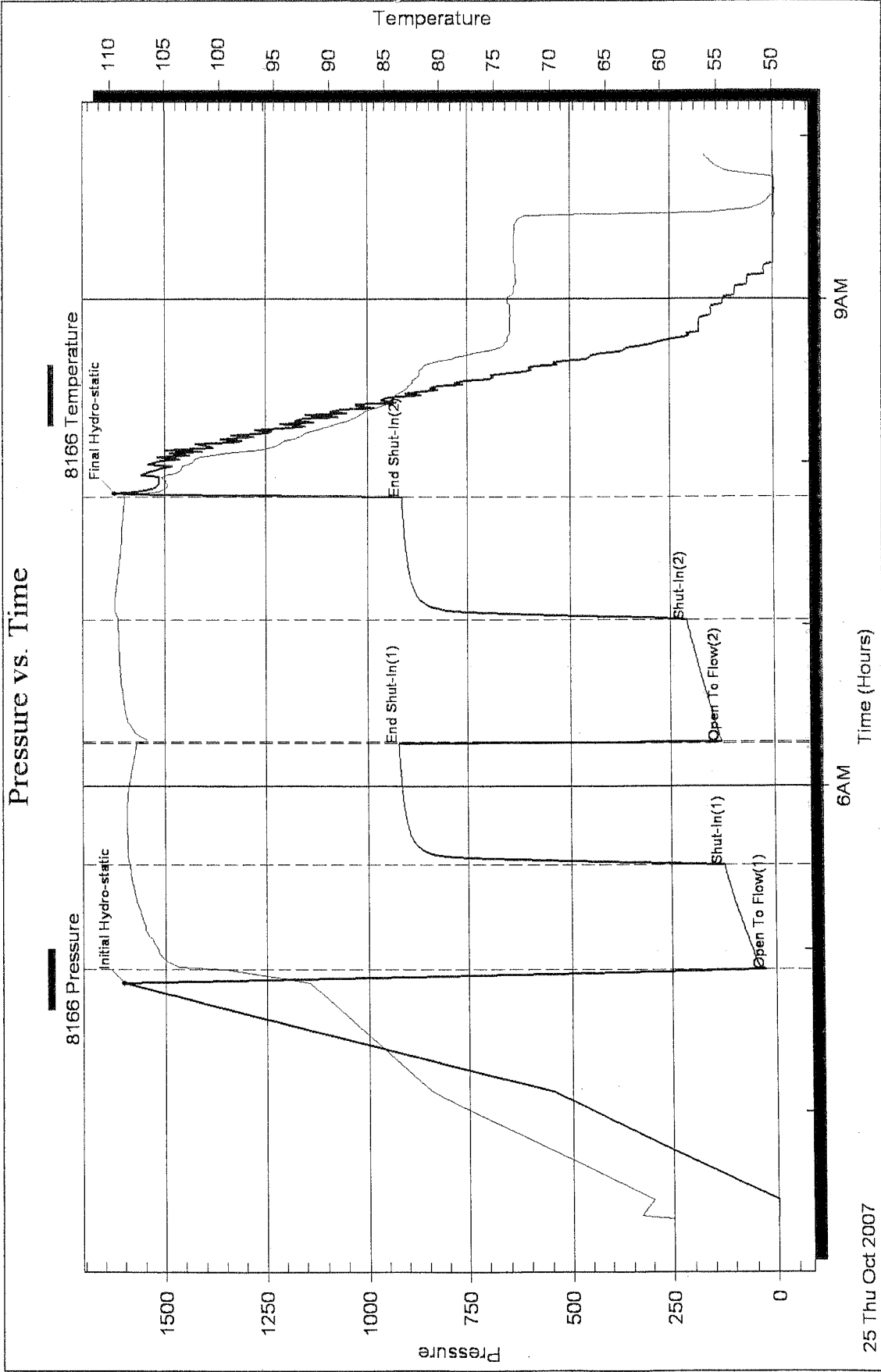
Inside

American Warrior

13 20S 13W Barton KS

DST Test Number: 3

### Pressure vs. Time



25 Thu Oct 2007

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Ref. No. 29369

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WICHITA, KS

Trilobite Testing, Inc

**CHART PAGE**

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

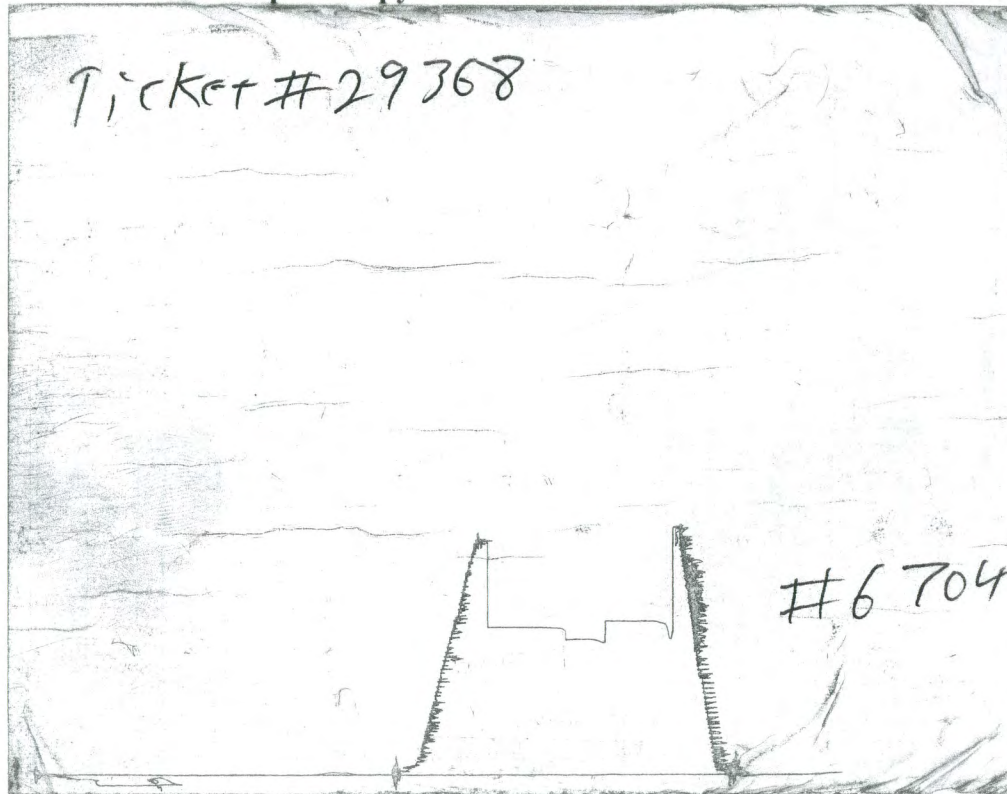


Am Warrior  
Bedline 1-13



**CHART PAGE**

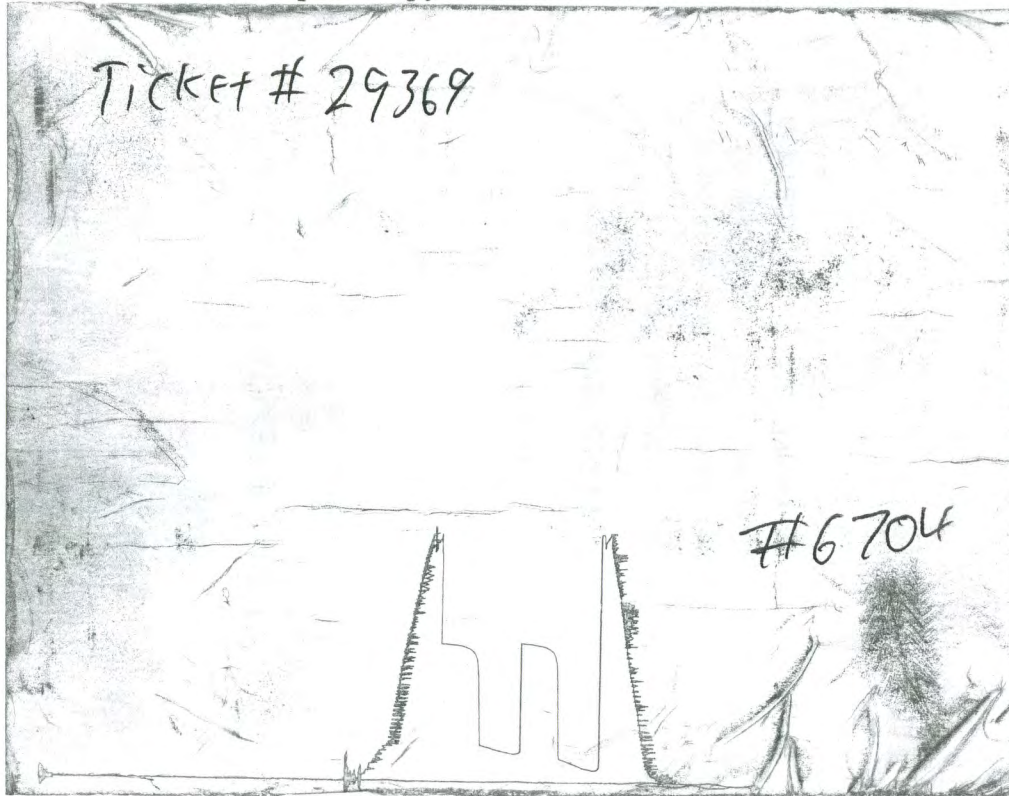
**This is a photocopy of the actual AK-1 recorder chart**



*Am Warrior  
Baseline 1-13*

**CHART PAGE**

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



*Am warrior  
Bodine 1-13*