

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name RYERSEE #1-2 Test No. 1 Date 1/12/95  
Company AMERICAN WARRIOR, INC. Zone CHEROKEE  
Address P O BOX 399, GARDEN CITY, KS Elevation 2174  
Co. Rep./Geo. SCOTT CORSAIR Cont. DISCOVERY #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 19S Rge. 21W Co. NESS State KS

Interval Tested 4135-4152 Drill Pipe Size 4.5" XH  
Anchor Length 17 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4130 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 4135 Mud Wt. 9.4 lb/Gal.  
Total Depth 4152 Viscosity 48 Filtrate 13.2

Tool Open @ 4:00AM Initial Blow WEAK - 1/4" BLOW DECREASING TO WEAK SURFACE BLOW.

Final Blow \_\_\_\_\_

Recovery - Total Feet 1 Flush Tool? NO

Rec. 1 Feet of DRILLING MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 101 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3850 ppm System  
2080.39 13754 4000

(A) Initial Hydrostatic Mud \_\_\_\_\_ PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

17.11 4148 27501

(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

17.62 2342

(C) First Final Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

29.37 4139

(D) Initial Shut-in Pressure \_\_\_\_\_ PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

17.20

(E) Second Initial Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

17.53

(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

0.00 30 5

(G) Final Shut-in Pressure \_\_\_\_\_ PSI Initial Opening \_\_\_\_\_ Final Flow \_\_\_\_\_

2058.15 30 0

(H) Final Hydrostatic Mud \_\_\_\_\_ PSI Initial Shut-in \_\_\_\_\_ Final Shut-in \_\_\_\_\_

**DAN BANGLE**

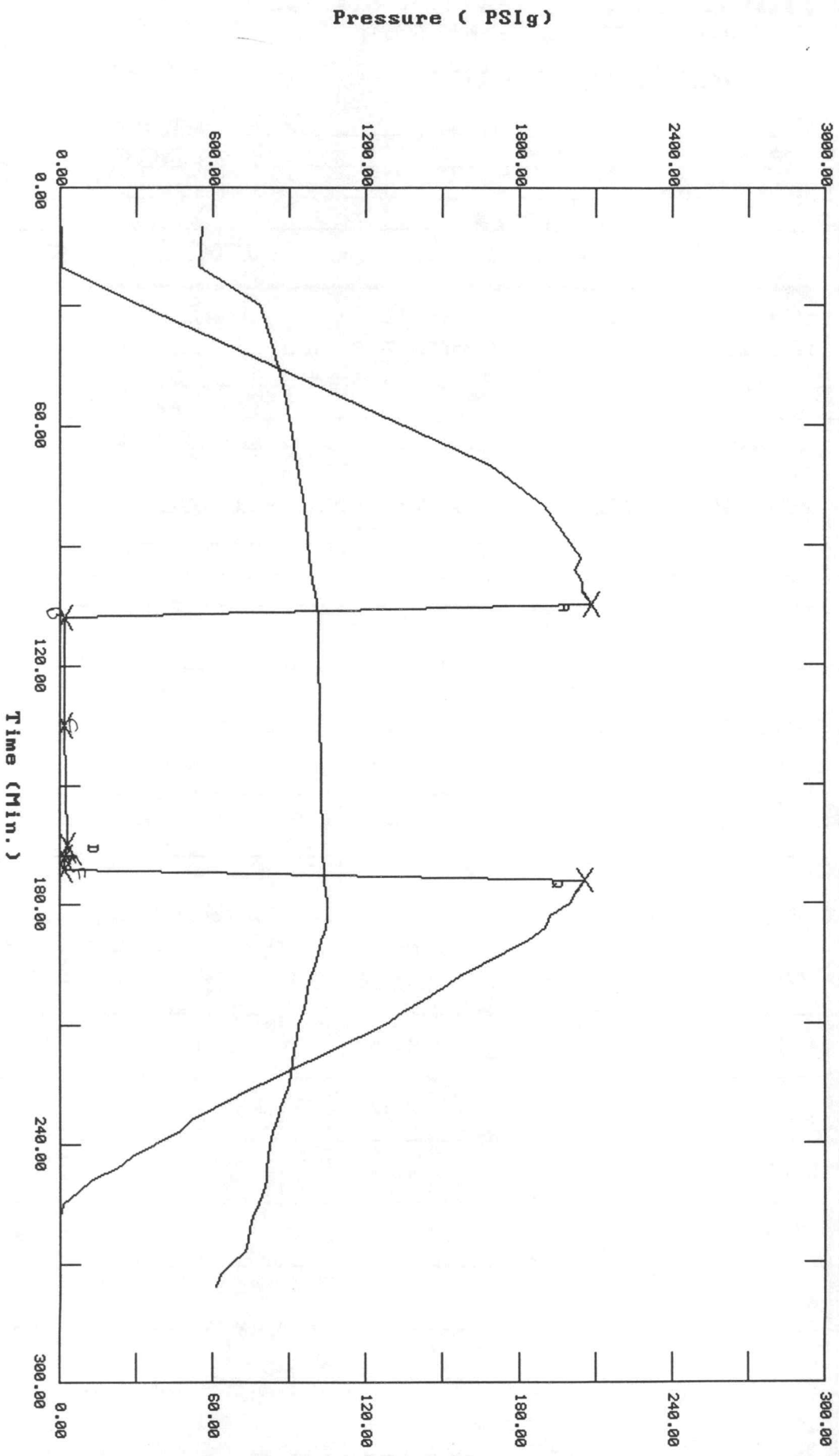
Our Representative \_\_\_\_\_

American Warrior, Inc. Ryersee #1-2 DST #1

# TEST HISTORY

Flag Points

t(Min.)	Pk	PSig
R:	0.00	2080.39
B:	0.00	17.11
C:	27.00	17.62
D:	30.00	29.37
E:	0.00	17.20
F:	3.00	17.53
Q:	0.00	2058.15



Temperature (DEG F)

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

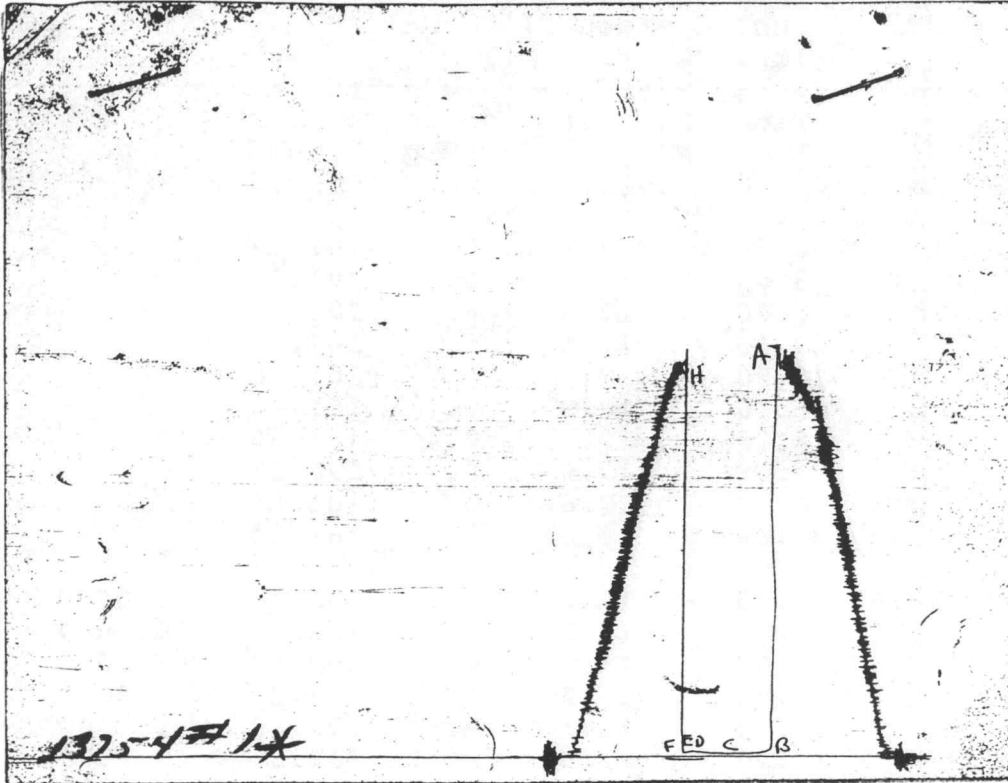
TEST: American Warrior, Inc. Ryersee #1-2 DST #1

DATE: 01/12/95

TIME: 02:17:27  
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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	105.00	2080.4	0.0	100.76		
***** Start Flow 1	0.00	17.1	0.0	101.12		
	3.00	17.3	0.2	101.30		
	6.00	17.5	0.3	101.30		
	9.00	17.5	0.3	101.30		
	12.00	17.5	0.4	101.48		
	15.00	17.5	0.4	101.48		
	18.00	17.5	0.4	101.66		
	21.00	17.5	0.4	101.66		
	24.00	17.6	0.5	101.84		
***** End Flow 1	27.00	17.6	0.5	101.84		
***** Start Shutin 1	0.00	17.6	0.0	101.84	0.0000	0.000
	3.00	15.9	-1.8	102.02	10.0000	0.000
	6.00	17.7	0.1	102.20	5.5000	0.000
	9.00	19.0	1.3	102.20	4.0000	0.000
	12.00	20.1	2.5	102.38	3.2500	0.000
	15.00	21.5	3.9	102.56	2.8000	0.000
	18.00	22.9	5.3	102.74	2.5000	0.001
	21.00	24.3	6.7	102.74	2.2857	0.001
	24.00	25.9	8.3	102.92	2.1250	0.001
	27.00	27.5	9.9	103.10	2.0000	0.001
***** End Shut-in 1	30.00	29.4	11.7	103.28	1.9000	0.001
***** Start Flow 2	0.00	17.2	0.0	103.28		
***** End Flow 2	3.00	17.5	0.3	103.46		
***** Start Shutin 2	0.00	17.5	0.0	103.46	0.0000	0.000
***** End Shut-in 2	3.00	2058.2	2040.6	103.82	11.0000	4.236
***** Final Hydro.	174.00	2058.2	0.0	103.82		

# CHART PAGE



This is an actual photograph of an AK1 recorder chart  
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		2080.39
(B) FIRST INITIAL FLOW PRESSURE		17.11
(C) FIRST FINAL FLOW PRESSURE		17.62
(D) INITIAL CLOSED-IN PRESSURE		29.37
(E) SECOND INITIAL FLOW PRESSURE		17.2
(F) SECOND FINAL FLOW PRESSURE		17.53
(G) FINAL CLOSED-IN PRESSURE		0
(H) FINAL HYDROSTATIC MUD		2058.15

# TRILOBITE TESTING, L.L.C.

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## Drill-Stem Test Data

Well Name RYERSEE #1-2 Test No. 2 Date 1/12/95  
Company AMERICAN WARRIOR, INC. Zone CHEROKEE  
Address P O BOX 399, GARDEN CITY, KS Elevation 2174  
Co. Rep./Geo. SCOTT CORSAIR Cont. DISCOVERY #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 19S Rge. 21W Co. NESS State KS

Interval Tested 4137-4180 Drill Pipe Size 4.5" XH  
Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4132 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 4137 Mud Wt. 9.4 lb/Gal.  
Total Depth 4180 Viscosity 48 Filtrate 13.2

Tool Open @ 3:40PM Initial Blow WEAK - BUILDING TO 2 INCHES.

Final Blow WEAK - STEADY SURFACE BLOW.

Recovery - Total Feet 70 Flush Tool? NO

Rec. 1 Feet of CLEAN OIL. 100% OIL.  
Rec. 69 Feet of VERY SLIGHTLY OIL CUT MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 105 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3850 ppm System

(A) Initial Hydrostatic Mud \_\_\_\_\_ PSI AK1 Recorder No. 2342 Range \_\_\_\_\_

(B) First Initial Flow Pressure 29.03 PSI @ (depth) 4141 w / Clock No. \_\_\_\_\_

(C) First Final Flow Pressure 53.87 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 325.55 PSI @ (depth) 4176 w / Clock No. 27501

(E) Second Initial Flow Pressure 46.82 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 62.27 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 337.80 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2040.95 PSI Initial Shut-in 30 Final Shut-in 45

DAN BANGLE

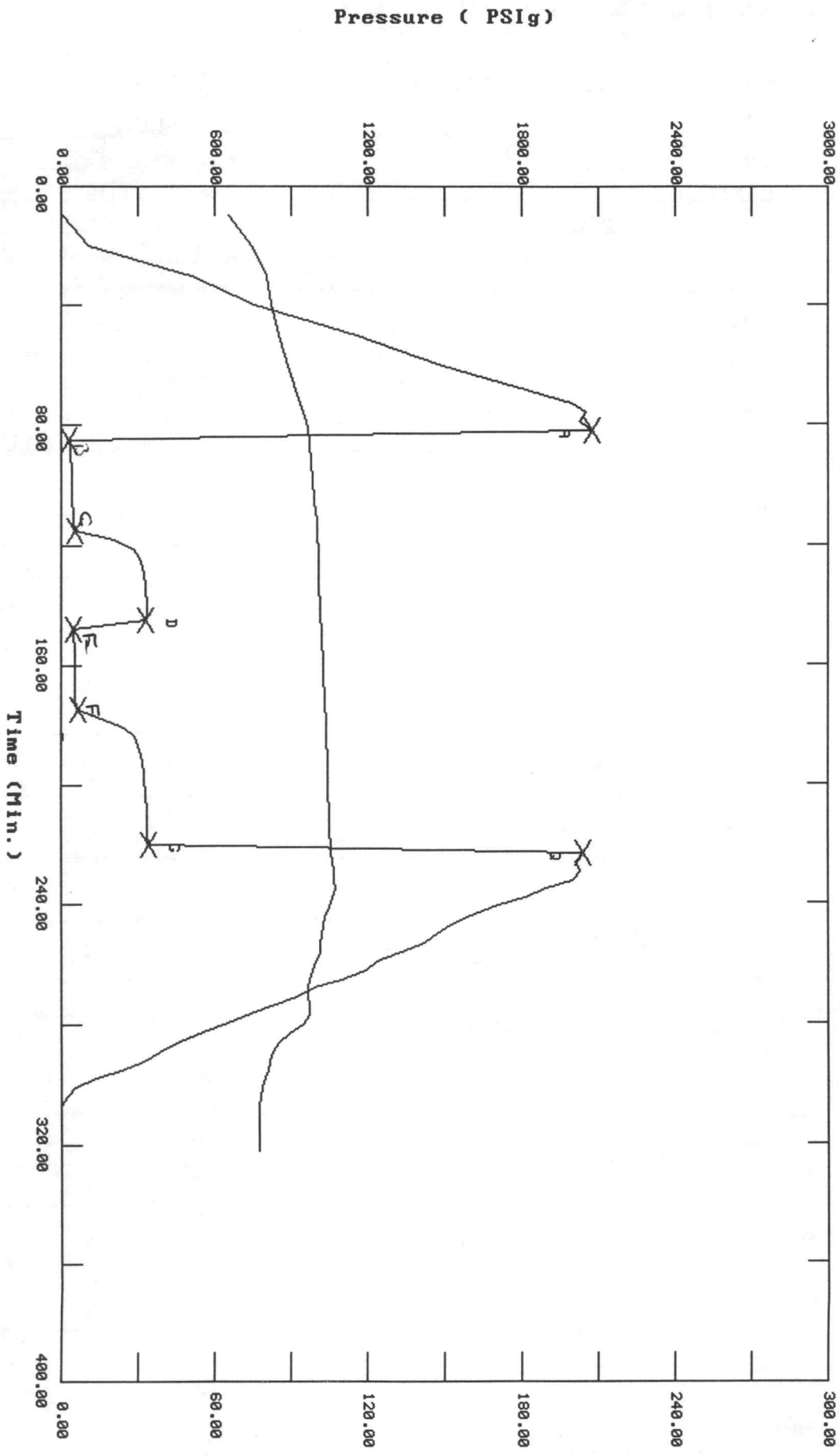
Our Representative \_\_\_\_\_

# TEST HISTORY

American Warrior, Inc. Ryersee #1-2 DST#2

Flag Points

t(Min.)	P( PSig)
A: 0.00	2076.95
B: 0.00	29.03
C: 30.00	53.87
D: 30.00	325.55
E: 0.00	46.82
F: 27.00	62.27
G: 45.00	337.80
Q: 0.00	2040.95



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

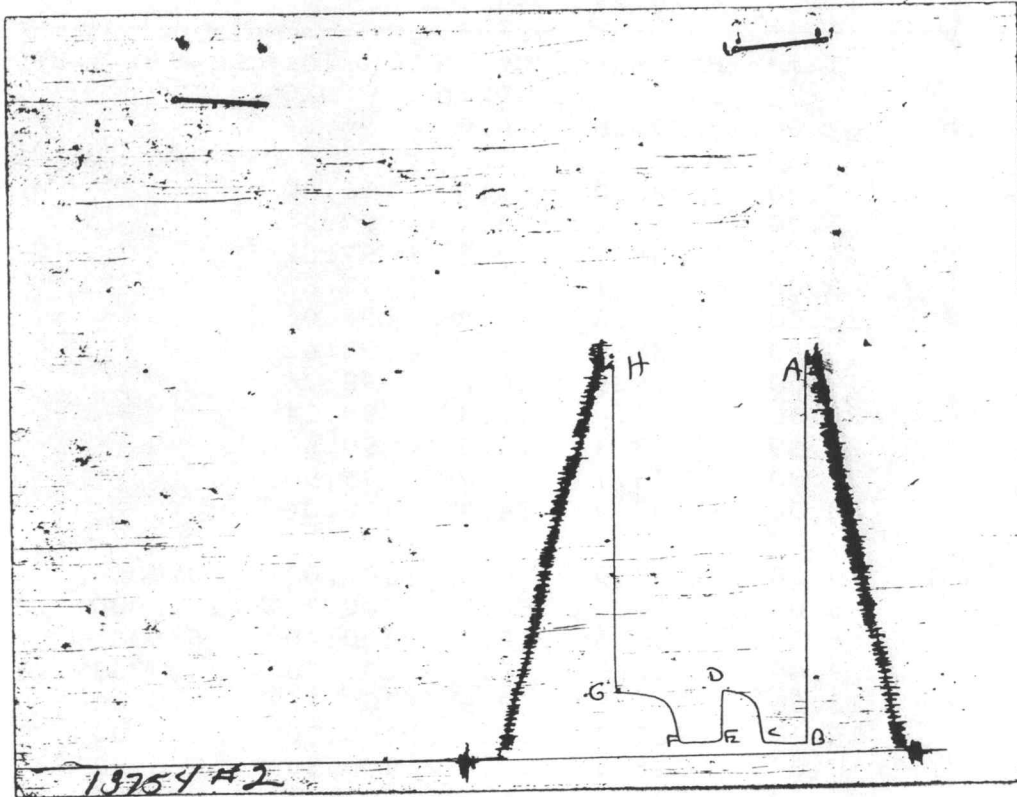
TEST: American Warrior, Inc. Ryersee #1-2 DST#2

DATE: 01/12/95

TIME: 14:20:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	82.00	2077.0	0.0	96.44		
***** Start Flow 1	0.00	29.0	0.0	96.80		
	3.00	32.4	3.4	97.16		
	6.00	36.2	7.2	97.52		
	9.00	37.1	8.1	97.88		
	12.00	37.8	8.8	98.06		
	15.00	38.8	9.8	98.42		
	18.00	39.9	10.8	98.78		
	21.00	41.4	12.3	99.14		
	24.00	43.3	14.3	99.50		
	27.00	43.7	14.7	99.86		
***** End Flow 1	30.00	53.9	24.8	100.04		
***** Start Shutin 1	0.00	53.9	0.0	100.04	0.0000	0.003
	3.00	210.1	156.3	100.22	11.0000	0.044
	6.00	280.6	226.7	100.40	6.0000	0.079
	9.00	302.5	248.6	100.58	4.3333	0.091
	12.00	313.8	259.9	100.76	3.5000	0.098
	15.00	320.9	267.1	100.76	3.0000	0.103
	18.00	326.3	272.4	100.76	2.6667	0.106
	21.00	330.4	276.5	100.94	2.4286	0.109
	24.00	333.6	279.7	101.12	2.2500	0.111
	27.00	336.3	282.4	101.30	2.1111	0.113
***** End Shut-in 1	30.00	325.5	271.7	101.48	2.0000	0.106
***** Start Flow 2	0.00	46.8	0.0	101.66		
	3.00	47.8	1.0	101.84		
	6.00	49.1	2.3	102.02		
	9.00	49.8	2.9	102.20		
	12.00	50.6	3.8	102.38		
	15.00	51.3	4.4	102.56		
	18.00	52.0	5.2	102.74		
	21.00	52.7	5.9	102.92		
	24.00	53.6	6.8	103.10		
***** End Flow 2	27.00	62.3	15.4	103.28		
***** Start Shutin 2	0.00	62.3	0.0	103.28	0.0000	0.004
	3.00	156.6	94.3	103.46	20.0000	0.025
	6.00	246.5	184.2	103.46	10.5000	0.061
	9.00	283.8	221.6	103.64	7.3333	0.081
	12.00	299.9	237.7	103.82	5.7500	0.090
	15.00	309.1	246.8	104.00	4.8000	0.096
	18.00	315.4	253.1	104.00	4.1667	0.099
	21.00	320.0	257.7	104.18	3.7143	0.102
	24.00	323.6	261.4	104.36	3.3750	0.105
	27.00	326.6	264.4	104.54	3.1111	0.107
	30.00	329.2	266.9	104.54	2.9000	0.108
	33.00	331.3	269.1	104.72	2.7273	0.110
	36.00	333.2	270.9	104.90	2.5833	0.111
	39.00	334.9	272.6	105.08	2.4615	0.112
	42.00	336.5	274.2	105.08	2.3571	0.113
***** End Shut-in 2	45.00	337.8	275.5	105.26	2.2667	0.114
***** Final Hydro.	223.00	2040.9	0.0	105.44		

# CHART PAGE



This is an actual photograph of an AK1 recorder chart  
 READINGS ARE FROM ALPINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		2076.95
(B) FIRST INITIAL FLOW PRESSURE		29.03
(C) FIRST FINAL FLOW PRESSURE		53.87
(D) INITIAL CLOSED-IN PRESSURE		325.55
(E) SECOND INITIAL FLOW PRESSURE		46.82
(F) SECOND FINAL FLOW PRESSURE		62.27
(G) FINAL CLOSED-IN PRESSURE		337.8
(H) FINAL HYDROSTATIC MUD		2040.95