

WELL NAME: Singley # 5
COMPANY: American Warrior Inc.
LOCATION: Sec. 34 Twp. 32S Rge. 31W
Seward County Kansas
DATE: 03/25/97

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior Inc. DATE 3/19/97
 WELL NAME: Singley #5 KB 2785.00 ft TICKET NO: 9700 DST #1
 LOCATION : Sec.34 Twp.32s Rge.31w GR 2775.00 ft FORMATION: Marmaton
 INTERVAL : 5130.00 To 5170.00 ft TD 5170.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	10991	10991	2350			PF Fr. 0110 to 0155 hr
SI 45 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0155 to 0240 hr
SF 45 Clock(hrs)	12hr.	12hr.	Elec.			SF Fr. 0240 to 0325 hr
FS 90 Depth(ft)	5164.0	5164.0	5142.0	0.0	0.0	FS Fr. 0325 to 0455 hr

	Field	1	2	3	4	
A. Init Hydro	2418.0	2469.0	2469.0	0.0	0.0	T STARTED 2215 hr
B. First Flow	53.0	73.0	70.0	0.0	0.0	T ON BOTM 0107 hr
B1. Final Flow	75.0	92.0	96.0	0.0	0.0	T OPEN 0110 hr
C. In Shut-in	735.0	748.0	766.0	0.0	0.0	T PULLED 0455 hr
D. Init Flow	128.0	139.0	119.0	0.0	0.0	T OUT 0830 hr
E. Final Flow	138.0	152.0	158.0	0.0	0.0	
F. Fl Shut-in	863.0	887.0	904.0	0.0	0.0	
G. Final Hydro	2408.0	2448.0	2448.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----
 Tool Wt. 2100.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 95000.00 lbs
 Initial Str Wt 84000.00 lbs
 Unseated Str Wt 85000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 556.00 ft
 D.P. Length 4566.00 ft

RECOVERY

Tot Fluid 270.00 ft of 270.00 ft in DC and 0.00 ft in DP
 100.00 ft of Slightly Oil Cut Gassy Mud
 0.00 ft of 90%mud 4%oil 6%gas
 70.00 ft of Gas Cut Watery Mud
 0.00 ft of 30%mud 30%gas 20%water 20%gas
 100.00 ft of Water Cut Mud
 0.00 ft of 64%mud 36%water
 0.00 ft of
 0.00 ft of
 SALINITY 4800.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/l
 Vis. 39.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop

BLOW DESCRIPTION

IF:Strong blow.Bottom of bucket in 30
 ISI:Bled down for 10 mins. built back

FF:Strong blow.Built to bottom of

FSI:Bled down for 10 mins.Built back to

Amt. of fill 0.00 ft
 Btm. H. Temp. 118.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Darren Amerine
 Co. Rep. Scott Corsair
 Contr. Val Energy
 Rig # 2
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

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TIME: 22:16:41

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	177.00	2468.6	0.0	110.83		
***** Start Flow 1	0.00	70.1	0.0	110.86		
	0.25	56.8	-13.3	110.89		
	0.50	52.5	-17.5	110.93		
	0.75	52.3	-17.8	110.96		
	1.00	52.2	-17.9	110.99		
	1.25	51.4	-18.6	111.03		
	1.50	53.5	-16.5	111.06		
	1.75	54.5	-15.6	111.10		
	2.00	53.9	-16.2	111.14		
	2.25	55.0	-15.0	111.17		
	2.50	55.8	-14.3	111.21		
	2.75	56.2	-13.8	111.25		
	3.00	57.7	-12.3	111.28		
	3.25	57.9	-12.2	111.31		
	3.50	58.3	-11.7	111.35		
	3.75	59.5	-10.6	111.37		
	4.00	58.3	-11.7	111.40		
	4.25	59.7	-10.3	111.43		
	4.50	59.3	-10.7	111.45		
	4.75	60.6	-9.5	111.48		
	5.00	60.8	-9.3	111.51		
	5.25	60.8	-9.2	111.52		
	5.50	61.2	-8.9	111.55		
	5.75	61.7	-8.4	111.57		
	6.00	61.4	-8.6	111.59		
	6.25	60.8	-9.2	111.60		
	6.50	60.6	-9.5	111.62		
	6.75	61.7	-8.4	111.63		
	7.00	60.9	-9.1	111.64		
	7.25	61.6	-8.5	111.66		
	7.50	61.6	-8.5	111.67		
	7.75	61.7	-8.4	111.67		
	8.00	62.1	-8.0	111.69		
	8.25	64.0	-6.0	111.70		
	8.50	63.8	-6.3	111.71		
	8.75	64.1	-6.0	111.72		
	9.00	64.4	-5.7	111.73		
	9.25	63.7	-6.4	111.73		
	9.50	63.6	-6.5	111.73		
	9.75	63.9	-6.2	111.75		
	10.00	64.2	-5.9	111.75		
	10.25	64.9	-5.2	111.76		
	10.50	65.1	-5.0	111.76		
	10.75	65.9	-4.2	111.77		
	11.00	67.8	-2.3	111.78		
	11.25	67.0	-3.1	111.79		
	11.50	67.3	-2.8	111.79		
	11.75	67.6	-2.4	111.80		
	12.00	68.1	-1.9	111.81		
	12.25	69.3	-0.8	111.81		

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12.50	68.6	-1.5	111.81		
12.75	70.2	0.2	111.82		
13.00	69.7	-0.4	111.83		
13.25	69.7	-0.3	111.83		
13.50	70.6	0.5	111.84		
13.75	71.4	1.3	111.84		
14.00	72.1	2.0	111.85		
14.25	72.0	1.9	111.85		
14.50	72.4	2.3	111.86		
14.75	73.3	3.3	111.87		
15.00	73.3	3.3	111.87		
15.25	74.1	4.0	111.87		
15.50	74.0	3.9	111.87		
15.75	74.8	4.7	111.89		
16.00	75.2	5.1	111.89		
16.25	75.9	5.9	111.90		
16.50	76.2	6.1	111.91		
16.75	77.1	7.1	111.91		
17.00	78.0	8.0	111.92		
17.25	78.0	7.9	111.92		
17.50	78.8	8.7	111.93		
17.75	79.5	9.4	111.94		
18.00	79.6	9.6	111.94		
18.25	79.6	9.6	111.95		
18.50	80.3	10.2	111.96		
18.75	80.5	10.4	111.96		
19.00	80.0	9.9	111.97		
19.25	81.2	11.2	111.97		
19.50	81.4	11.3	111.98		
19.75	81.9	11.8	111.99		
20.00	81.9	11.8	112.00		
20.25	83.6	13.5	112.02		
20.50	82.6	12.5	112.01		
20.75	83.2	13.2	112.02		
21.00	83.2	13.1	112.03		
21.25	84.1	14.0	112.05		
21.50	83.9	13.8	112.06		
21.75	84.2	14.1	112.05		
22.00	84.3	14.3	112.08		
22.25	84.2	14.1	112.09		
22.50	85.4	15.4	112.12		
22.75	85.2	15.1	112.14		
23.00	85.2	15.1	112.15		
23.25	85.6	15.5	112.17		
23.50	86.2	16.1	112.19		
23.75	85.8	15.8	112.21		
24.00	86.4	16.3	112.24		
24.25	86.5	16.4	112.25		
24.50	86.4	16.3	112.28		
24.75	86.9	16.8	112.31		
25.00	87.3	17.2	112.32		

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25.25	87.4	17.3	112.35		
25.50	87.9	17.8	112.37		
25.75	87.9	17.9	112.40		
26.00	88.2	18.1	112.44		
26.25	89.2	19.1	112.45		
26.50	88.5	18.5	112.48		
26.75	88.9	18.8	112.50		
27.00	89.0	18.9	112.53		
27.25	89.5	19.4	112.56		
27.50	89.3	19.2	112.58		
27.75	90.1	20.1	112.60		
28.00	90.0	19.9	112.63		
28.25	90.7	20.6	112.66		
28.50	90.7	20.6	112.68		
28.75	90.6	20.5	112.69		
29.00	90.4	20.3	112.72		
29.25	90.8	20.7	112.74		
29.50	91.2	21.1	112.77		
29.75	91.4	21.3	112.79		
30.00	92.6	22.6	112.81		
30.25	91.5	21.4	112.83		
30.50	91.6	21.6	112.85		
30.75	92.1	22.1	112.86		
31.00	92.3	22.2	112.89		
31.25	92.4	22.3	112.90		
31.50	92.8	22.7	112.92		
31.75	92.5	22.4	112.94		
32.00	92.3	22.2	112.96		
32.25	93.2	23.1	112.97		
32.50	93.6	23.5	112.99		
32.75	85.6	15.5	113.02		
33.00	86.4	16.3	113.03		
33.25	86.2	16.1	113.05		
33.50	86.5	16.4	113.06		
33.75	87.7	17.6	113.08		
34.00	87.1	17.0	113.10		
34.25	88.0	18.0	113.11		
34.50	87.8	17.7	113.13		
34.75	88.4	18.3	113.14		
35.00	88.0	18.0	113.16		
35.25	88.7	18.6	113.18		
35.50	88.6	18.5	113.19		
35.75	89.5	19.4	113.20		
36.00	89.1	19.1	113.22		
36.25	89.0	18.9	113.23		
36.50	88.6	18.5	113.25		
36.75	89.4	19.3	113.27		
37.00	88.9	18.8	113.28		
37.25	89.4	19.3	113.30		
37.50	90.8	20.7	113.31		
37.75	90.6	20.6	113.32		

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	38.00	90.0	20.0	113.33		
	38.25	91.0	20.9	113.35		
	38.50	90.7	20.6	113.36		
	38.75	92.0	21.9	113.37		
	39.00	91.6	21.6	113.39		
	39.25	91.4	21.3	113.40		
	39.50	92.2	22.2	113.41		
	39.75	91.9	21.8	113.43		
	40.00	92.3	22.2	113.44		
	40.25	92.8	22.7	113.45		
	40.50	93.2	23.2	113.47		
	40.75	93.0	22.9	113.48		
	41.00	91.5	21.4	113.49		
	41.25	94.2	24.1	113.50		
	41.50	93.8	23.8	113.51		
	41.75	93.6	23.5	113.53		
	42.00	92.8	22.7	113.54		
	42.25	95.0	24.9	113.55		
	42.50	95.2	25.1	113.56		
	42.75	94.5	24.4	113.58		
	43.00	94.4	24.3	113.59		
	43.25	95.7	25.6	113.60		
	43.50	96.0	25.9	113.61		
	43.75	95.6	25.5	113.62		
	44.00	95.8	25.7	113.63		
	44.25	96.3	26.2	113.64		
	44.50	96.3	26.2	113.66		
	44.75	96.6	26.5	113.67		
***** End Flow 1	45.00	96.4	26.4	113.68		
***** Start Shutin 1	0.00	96.4	0.0	113.68	0.0000	0.009
	0.25	100.6	4.2	113.68	181.0000	0.010
	0.50	105.1	8.6	113.69	91.0000	0.011
	0.75	107.7	11.2	113.70	61.0000	0.012
	1.00	113.6	17.2	113.72	46.0000	0.013
	1.25	117.5	21.1	113.73	37.0000	0.014
	1.50	120.4	24.0	113.74	31.0000	0.015
	1.75	124.0	27.6	113.75	26.7143	0.015
	2.00	127.5	31.1	113.76	23.5000	0.016
	2.25	131.1	34.7	113.78	21.0000	0.017
	2.50	134.0	37.6	113.78	19.0000	0.018
	2.75	138.6	42.2	113.80	17.3636	0.019
	3.00	144.6	48.2	113.81	16.0000	0.021
	3.25	148.4	52.0	113.82	14.8462	0.022
	3.50	153.2	56.8	113.84	13.8571	0.023
	3.75	158.2	61.8	113.84	13.0000	0.025
	4.00	161.6	65.1	113.86	12.2500	0.026
	4.25	166.2	69.7	113.87	11.5882	0.028
	4.50	164.0	67.6	113.88	11.0000	0.027
	4.75	168.9	72.4	113.89	10.4737	0.029
	5.00	174.5	78.1	113.91	10.0000	0.030
	5.25	180.8	84.3	113.92	9.5714	0.033

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5.50	188.9	92.5	113.93	9.1818	0.036
5.75	197.0	100.5	113.94	8.8261	0.039
6.00	205.0	108.6	113.95	8.5000	0.042
6.25	212.7	116.3	113.97	8.2000	0.045
6.50	220.6	124.1	113.98	7.9231	0.049
6.75	228.1	131.7	113.99	7.6667	0.052
7.00	235.7	139.2	114.00	7.4286	0.056
7.25	243.1	146.7	114.01	7.2069	0.059
7.50	250.5	154.1	114.02	7.0000	0.063
7.75	257.7	161.3	114.04	6.8065	0.066
8.00	264.7	168.3	114.05	6.6250	0.070
8.25	271.7	175.3	114.06	6.4545	0.074
8.50	278.5	182.0	114.07	6.2941	0.078
8.75	285.0	188.6	114.08	6.1429	0.081
9.00	291.4	195.0	114.10	6.0000	0.085
9.25	297.7	201.3	114.11	5.8649	0.089
9.50	303.6	207.1	114.12	5.7368	0.092
9.75	309.5	213.1	114.13	5.6154	0.096
10.00	315.1	218.6	114.14	5.5000	0.099
10.25	320.4	224.0	114.15	5.3902	0.103
10.50	325.7	229.3	114.16	5.2857	0.106
10.75	330.9	234.5	114.18	5.1860	0.110
11.00	336.0	239.5	114.19	5.0909	0.113
11.25	340.8	244.4	114.20	5.0000	0.116
11.50	345.6	249.2	114.21	4.9130	0.119
11.75	350.2	253.8	114.22	4.8298	0.123
12.00	354.8	258.3	114.23	4.7500	0.126
12.25	359.3	262.9	114.24	4.6735	0.129
12.50	363.6	267.1	114.24	4.6000	0.132
12.75	367.5	271.1	114.26	4.5294	0.135
13.00	371.6	275.2	114.28	4.4615	0.138
13.25	375.4	279.0	114.29	4.3962	0.141
13.50	379.3	282.8	114.30	4.3333	0.144
13.75	383.0	286.5	114.30	4.2727	0.147
14.00	387.0	290.6	114.31	4.2143	0.150
14.25	390.6	294.2	114.32	4.1579	0.153
14.50	394.0	297.6	114.34	4.1034	0.155
14.75	397.1	300.6	114.35	4.0508	0.158
15.00	399.8	303.4	114.35	4.0000	0.160
15.25	402.7	306.3	114.37	3.9508	0.162
15.50	407.5	311.1	114.38	3.9032	0.166
15.75	411.5	315.1	114.39	3.8571	0.169
16.00	415.4	318.9	114.39	3.8125	0.173
16.25	418.8	322.4	114.40	3.7692	0.175
16.50	421.7	325.3	114.40	3.7273	0.178
16.75	424.3	327.9	114.43	3.6866	0.180
17.00	426.7	330.3	114.42	3.6471	0.182
17.25	428.7	332.3	114.43	3.6087	0.184
17.50	430.5	334.1	114.44	3.5714	0.185
17.75	432.4	336.0	114.45	3.5352	0.187
18.00	434.2	337.7	114.39	3.5000	0.188

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18.25	435.6	339.2	114.47	3.4658	0.190
18.50	436.9	340.5	114.48	3.4324	0.191
18.75	438.3	341.8	114.49	3.4000	0.192
19.00	439.4	343.0	114.49	3.3684	0.193
19.25	440.6	344.2	114.51	3.3377	0.194
19.50	441.8	345.4	114.50	3.3077	0.195
19.75	442.9	346.5	114.52	3.2785	0.196
20.00	443.9	347.5	114.52	3.2500	0.197
20.25	445.0	348.6	114.53	3.2222	0.198
20.50	446.0	349.6	114.54	3.1951	0.199
20.75	447.0	350.6	114.55	3.1687	0.200
21.00	448.1	351.7	114.56	3.1429	0.201
21.25	449.1	352.7	114.57	3.1176	0.202
21.50	450.4	354.0	114.55	3.0930	0.203
21.75	456.1	359.6	114.57	3.0690	0.208
22.00	460.1	363.7	114.58	3.0455	0.212
22.25	465.7	369.3	114.58	3.0225	0.217
22.50	470.1	373.6	114.59	3.0000	0.221
22.75	475.0	378.6	114.59	2.9780	0.226
23.00	480.1	383.6	114.61	2.9565	0.230
23.25	484.7	388.3	114.62	2.9355	0.235
23.50	489.8	393.4	114.62	2.9149	0.240
23.75	493.5	397.1	114.63	2.8947	0.244
24.00	498.4	402.0	114.63	2.8750	0.248
24.25	502.6	406.2	114.64	2.8557	0.253
24.50	506.9	410.5	114.65	2.8367	0.257
24.75	510.9	414.5	114.65	2.8182	0.261
25.00	515.1	418.7	114.66	2.8000	0.265
25.25	520.0	423.6	114.67	2.7822	0.270
25.50	523.7	427.3	114.67	2.7647	0.274
25.75	528.5	432.1	114.68	2.7476	0.279
26.00	532.0	435.6	114.69	2.7308	0.283
26.25	535.6	439.2	114.69	2.7143	0.287
26.50	539.4	443.0	114.69	2.6981	0.291
26.75	543.1	446.7	114.70	2.6822	0.295
27.00	547.7	451.3	114.71	2.6667	0.300
27.25	550.8	454.4	114.72	2.6514	0.303
27.50	554.7	458.2	114.72	2.6364	0.308
27.75	558.1	461.7	114.73	2.6216	0.311
28.00	562.4	466.0	114.74	2.6071	0.316
28.25	566.6	470.2	114.75	2.5929	0.321
28.50	570.7	474.3	114.75	2.5789	0.326
28.75	573.7	477.3	114.76	2.5652	0.329
29.00	577.5	481.1	114.76	2.5517	0.334
29.25	581.2	484.8	114.78	2.5385	0.338
29.50	585.1	488.7	114.78	2.5254	0.342
29.75	588.3	491.9	114.78	2.5126	0.346
30.00	592.2	495.8	114.79	2.5000	0.351
30.25	596.0	499.6	114.80	2.4876	0.355
30.50	599.7	503.3	114.80	2.4754	0.360
30.75	603.3	506.8	114.80	2.4634	0.364

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
31.00	606.7	510.3	114.81	2.4516	0.368
31.25	610.1	513.6	114.81	2.4400	0.372
31.50	613.8	517.4	114.82	2.4286	0.377
31.75	617.9	521.4	114.83	2.4173	0.382
32.00	620.6	524.1	114.84	2.4062	0.385
32.25	623.8	527.4	114.85	2.3953	0.389
32.50	627.1	530.7	114.84	2.3846	0.393
32.75	630.4	533.9	114.86	2.3740	0.397
33.00	633.9	537.5	114.86	2.3636	0.402
33.25	637.7	541.3	114.86	2.3534	0.407
33.50	641.1	544.7	114.87	2.3433	0.411
33.75	644.0	547.5	114.87	2.3333	0.415
34.00	647.5	551.1	114.88	2.3235	0.419
34.25	650.7	554.3	114.90	2.3139	0.423
34.50	653.4	556.9	114.88	2.3043	0.427
34.75	656.8	560.4	114.90	2.2950	0.431
35.00	660.3	563.9	114.91	2.2857	0.436
35.25	662.8	566.3	114.91	2.2766	0.439
35.50	666.0	569.5	114.91	2.2676	0.444
35.75	669.0	572.6	114.98	2.2587	0.448
36.00	671.8	575.4	114.92	2.2500	0.451
36.25	674.8	578.3	114.93	2.2414	0.455
36.50	678.0	581.6	114.93	2.2329	0.460
36.75	681.1	584.6	114.94	2.2245	0.464
37.00	683.8	587.3	114.95	2.2162	0.468
37.25	686.8	590.3	114.94	2.2081	0.472
37.50	689.6	593.2	114.95	2.2000	0.476
37.75	692.6	596.1	114.97	2.1921	0.480
38.00	694.9	598.5	114.96	2.1842	0.483
38.25	697.9	601.4	114.97	2.1765	0.487
38.50	700.6	604.2	114.98	2.1688	0.491
38.75	703.1	606.7	114.97	2.1613	0.494
39.00	705.9	609.5	114.98	2.1538	0.498
39.25	708.3	611.9	114.99	2.1465	0.502
39.50	710.7	614.3	114.99	2.1392	0.505
39.75	713.4	617.0	115.00	2.1321	0.509
40.00	716.0	619.6	115.00	2.1250	0.513
40.25	718.5	622.1	115.01	2.1180	0.516
40.50	720.9	624.5	115.01	2.1111	0.520
40.75	723.4	626.9	115.01	2.1043	0.523
41.00	725.8	629.4	115.02	2.0976	0.527
41.25	728.3	631.9	115.02	2.0909	0.530
41.50	730.7	634.2	115.03	2.0843	0.534
41.75	732.8	636.4	115.02	2.0778	0.537
42.00	735.1	638.7	115.04	2.0714	0.540
42.25	737.3	640.9	115.06	2.0651	0.544
42.50	739.8	643.4	115.04	2.0588	0.547
42.75	742.2	645.7	115.02	2.0526	0.551
43.00	744.3	647.9	115.05	2.0465	0.554
43.25	746.5	650.1	115.06	2.0405	0.557
43.50	748.2	651.8	115.07	2.0345	0.560

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

TIME: 22:16:41

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	43.75	750.4	654.0	115.07	2.0286	0.563
	44.00	752.3	655.9	115.07	2.0227	0.566
	44.25	754.3	657.9	115.07	2.0169	0.569
	44.50	756.3	659.8	115.07	2.0112	0.572
	44.75	758.0	661.6	115.08	2.0056	0.575
	45.00	760.2	663.8	115.09	2.0000	0.578
	45.25	762.1	665.6	115.10	1.9945	0.581
	45.50	764.2	667.8	115.09	1.9890	0.584
***** End Shut-in 1	45.75	766.1	669.7	115.09	1.9836	0.587
***** Start Flow 2	0.00	119.3	0.0	115.09		
	0.25	115.9	-3.4	115.10		
	0.50	119.6	0.3	115.09		
	0.75	117.7	-1.7	115.09		
	1.00	114.8	-4.5	115.08		
	1.25	115.7	-3.6	115.07		
	1.50	115.1	-4.3	115.08		
	1.75	117.7	-1.6	115.06		
	2.00	113.6	-5.7	115.07		
	2.25	117.4	-1.9	115.07		
	2.50	115.6	-3.7	115.06		
	2.75	114.3	-5.0	115.06		
	3.00	115.0	-4.4	115.06		
	3.25	118.2	-1.2	115.05		
	3.50	112.5	-6.9	115.05		
	3.75	116.0	-3.4	115.04		
	4.00	119.3	0.0	115.04		
	4.25	116.1	-3.2	115.04		
	4.50	118.5	-0.8	115.05		
	4.75	118.5	-0.8	115.05		
	5.00	118.3	-1.0	115.04		
	5.25	120.8	1.5	115.05		
	5.50	117.4	-1.9	115.05		
	5.75	120.4	1.1	115.06		
	6.00	119.8	0.4	115.06		
	6.25	121.1	1.8	115.06		
	6.50	122.9	3.6	115.07		
	6.75	121.6	2.3	115.07		
	7.00	123.9	4.5	115.08		
	7.25	121.0	1.7	115.08		
	7.50	123.2	3.9	115.08		
	7.75	124.6	5.3	115.09		
	8.00	122.6	3.3	115.10		
	8.25	124.2	4.9	115.11		
	8.50	124.2	4.9	115.11		
	8.75	124.8	5.5	115.11		
	9.00	124.0	4.7	115.12		
	9.25	124.4	5.0	115.12		
	9.50	125.5	6.2	115.14		
	9.75	124.9	5.5	115.14		
	10.00	125.0	5.7	115.15		
	10.25	124.9	5.5	115.16		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

TIME: 22:16:41

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.50	126.5	7.1	115.16		
10.75	125.4	6.0	115.17		
11.00	126.9	7.6	115.17		
11.25	127.3	8.0	115.18		
11.50	127.5	8.1	115.19		
11.75	125.5	6.2	115.20		
12.00	127.1	7.7	115.20		
12.25	127.0	7.6	115.20		
12.50	127.2	7.9	115.21		
12.75	127.5	8.1	115.22		
13.00	127.4	8.1	115.23		
13.25	127.8	8.5	115.23		
13.50	127.3	8.0	115.24		
13.75	129.5	10.2	115.24		
14.00	128.6	9.2	115.26		
14.25	129.5	10.2	115.26		
14.50	129.8	10.5	115.26		
14.75	130.4	11.1	115.27		
15.00	129.3	10	115.27		
15.25	131.3	11.9	115.28		
15.50	130.8	11.5	115.28		
15.75	129.8	10.5	115.29		
16.00	131.2	11.8	115.30		
16.25	131.0	11.7	115.30		
16.50	131.9	12.6	115.30		
16.75	131.3	12.0	115.32		
17.00	131.3	11.9	115.32		
17.25	132.6	13.3	115.32		
17.50	131.8	12.5	115.32		
17.75	133.5	14.2	115.33		
18.00	132.8	13.4	115.34		
18.25	133.2	13.8	115.35		
18.50	132.6	13.3	115.35		
18.75	134.1	14.8	115.36		
19.00	134.4	15.0	115.36		
19.25	133.8	14.4	115.37		
19.50	134.9	15.6	115.38		
19.75	134.6	15.3	115.38		
20.00	133.9	14.5	115.39		
20.25	135.3	15.9	115.40		
20.50	134.6	15.3	115.40		
20.75	135.5	16.1	115.42		
21.00	136.6	17.3	115.42		
21.25	136.0	16.7	115.43		
21.50	136.4	17.0	115.44		
21.75	137.0	17.6	115.44		
22.00	137.1	17.8	115.46		
22.25	137.6	18.3	115.46		
22.50	138.0	18.6	115.46		
22.75	138.2	18.9	115.47		
23.00	137.8	18.5	115.48		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

TIME: 22:16:41

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
23.25	138.2	18.9	115.49		
23.50	138.8	19.5	115.49		
23.75	138.3	19.0	115.51		
24.00	139.0	19.6	115.51		
24.25	139.7	20.4	115.52		
24.50	139.8	20.5	115.53		
24.75	139.5	20.1	115.53		
25.00	139.6	20.3	115.55		
25.25	140.0	20.6	115.55		
25.50	140.6	21.2	115.56		
25.75	142.1	22.7	115.56		
26.00	140.9	21.6	115.56		
26.25	141.7	22.4	115.58		
26.50	142.2	22.8	115.59		
26.75	142.4	23.1	115.59		
27.00	139.5	20.1	115.60		
27.25	141.7	22.3	115.60		
27.50	142.8	23.5	115.61		
27.75	141.7	22.3	115.62		
28.00	143.1	23.8	115.63		
28.25	143.6	24.3	115.64		
28.50	142.4	23.1	115.64		
28.75	143.6	24.3	115.65		
29.00	145.4	26.0	115.66		
29.25	143.6	24.3	115.66		
29.50	144.3	24.9	115.67		
29.75	144.7	25.3	115.68		
30.00	146.0	26.7	115.69		
30.25	146.3	26.9	115.69		
30.50	143.3	24.0	115.70		
30.75	145.5	26.2	115.70		
31.00	146.4	27.1	115.71		
31.25	144.9	25.6	115.71		
31.50	146.9	27.6	115.72		
31.75	146.8	27.4	115.73		
32.00	145.4	26.1	115.74		
32.25	146.6	27.3	115.74		
32.50	147.5	28.1	115.75		
32.75	145.9	26.5	115.76		
33.00	146.4	27.1	115.75		
33.25	148.0	28.6	115.77		
33.50	148.5	29.2	115.78		
33.75	146.9	27.5	115.78		
34.00	148.8	29.5	115.79		
34.25	148.8	29.5	115.79		
34.50	148.9	29.6	115.80		
34.75	150.1	30.8	115.81		
35.00	149.8	30.5	115.82		
35.25	148.9	29.5	115.81		
35.50	149.4	30.0	115.83		
35.75	149.6	30.3	115.83		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97 TIME: 22:16:41

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	36.00	149.5	30.1	115.84		
	36.25	149.5	30.1	115.85		
	36.50	151.1	31.7	115.85		
	36.75	151.6	32.3	115.86		
	37.00	150.1	30.8	115.86		
	37.25	151.8	32.5	115.87		
	37.50	151.3	32.0	115.88		
	37.75	152.7	33.4	115.88		
	38.00	151.3	32.0	115.89		
	38.25	152.1	32.7	115.90		
	38.50	152.3	33.0	115.90		
	38.75	152.3	33.0	115.91		
	39.00	151.7	32.4	115.91		
	39.25	152.2	32.9	115.92		
	39.50	152.6	33.2	115.93		
	39.75	153.1	33.7	115.92		
	40.00	153.9	34.6	115.94		
	40.25	153.9	34.6	115.94		
	40.50	154.2	34.8	115.95		
	40.75	153.2	33.8	115.95		
	41.00	153.3	34.0	115.95		
	41.25	153.2	33.9	115.96		
	41.50	153.8	34.5	115.97		
	41.75	155.3	35.9	115.97		
	42.00	154.9	35.6	115.97		
	42.25	154.8	35.5	115.98		
	42.50	154.6	35.2	115.99		
	42.75	153.8	34.5	116.00		
	43.00	155.8	36.4	116.00		
	43.25	155.0	35.7	116.01		
	43.50	156.3	36.9	116.01		
	43.75	155.8	36.5	116.01		
	44.00	155.5	36.2	116.02		
	44.25	155.3	35.9	116.03		
	44.50	156.9	37.5	116.03		
**** End Flow 2	44.75	157.9	38.6	116.03		
**** Start Shutin 2	0.00	157.9	0.0	116.03	0.0000	0.025
	0.25	173.9	15.9	116.04	360.0000	0.030
	0.50	188.2	30.2	116.05	180.5000	0.035
	0.75	201.8	43.8	116.06	120.6667	0.041
	1.00	214.7	56.7	116.06	90.7500	0.046
	1.25	227.2	69.2	116.06	72.8000	0.052
	1.50	239.6	81.7	116.07	60.8333	0.057
	1.75	251.5	93.6	116.09	52.2857	0.063
	2.00	263.2	105.2	116.08	45.8750	0.069
	2.25	274.7	116.7	116.09	40.8889	0.075
	2.50	285.8	127.8	116.10	36.9000	0.082
	2.75	296.6	138.6	116.11	33.6364	0.088
	3.00	307.2	149.2	116.12	30.9167	0.094
	3.25	317.4	159.5	116.12	28.6154	0.101
	3.50	327.6	169.6	116.12	26.6429	0.107

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
3.75	337.2	179.3	116.11	24.9333	0.114
4.00	346.4	188.5	116.14	23.4375	0.120
4.25	355.4	197.5	116.15	22.1176	0.126
4.50	364.2	206.2	116.15	20.9444	0.133
4.75	372.7	214.8	116.16	19.8947	0.139
5.00	381.0	223.1	116.18	18.9500	0.145
5.25	388.9	231.0	116.17	18.0952	0.151
5.50	396.7	238.8	116.18	17.3182	0.157
5.75	404.0	246.1	116.19	16.6087	0.163
6.00	411.2	253.2	116.19	15.9583	0.169
6.25	418.2	260.3	116.20	15.3600	0.175
6.50	424.9	267.0	116.21	14.8077	0.181
6.75	431.5	273.5	116.21	14.2963	0.186
7.00	437.6	279.6	116.22	13.8214	0.191
7.25	443.6	285.7	116.23	13.3793	0.197
7.50	449.5	291.6	116.23	12.9667	0.202
7.75	455.1	297.2	116.24	12.5806	0.207
8.00	460.7	302.7	116.25	12.2188	0.212
8.25	466.0	308.0	116.25	11.8788	0.217
8.50	471.2	313.2	116.25	11.5588	0.222
8.75	476.2	318.3	116.27	11.2571	0.227
9.00	481.1	323.1	116.25	10.9722	0.231
9.25	485.8	327.8	116.28	10.7027	0.236
9.50	490.4	332.4	116.28	10.4474	0.240
9.75	494.8	336.9	116.29	10.2051	0.245
10.00	499.2	341.3	116.28	9.9750	0.249
10.25	503.4	345.4	116.30	9.7561	0.253
10.50	507.6	349.6	116.30	9.5476	0.258
10.75	511.6	353.7	116.30	9.3488	0.262
11.00	515.6	357.6	116.30	9.1591	0.266
11.25	519.3	361.4	116.32	8.9778	0.270
11.50	523.2	365.3	116.32	8.8043	0.274
11.75	526.8	368.9	116.33	8.6383	0.278
12.00	530.4	372.5	116.33	8.4792	0.281
12.25	534.0	376.1	116.33	8.3265	0.285
12.50	537.5	379.5	116.33	8.1800	0.289
12.75	540.8	382.9	116.35	8.0392	0.292
13.00	544.2	386.2	116.34	7.9038	0.296
13.25	547.5	389.6	116.36	7.7736	0.300
13.50	550.6	392.7	116.36	7.6481	0.303
13.75	553.7	395.7	116.37	7.5273	0.307
14.00	556.9	398.9	116.37	7.4107	0.310
14.25	560.0	402.0	116.38	7.2982	0.314
14.50	562.9	405.0	116.38	7.1897	0.317
14.75	565.8	407.9	116.38	7.0847	0.320
15.00	568.9	410.9	116.39	6.9833	0.324
15.25	571.6	413.7	116.40	6.8852	0.327
15.50	574.5	416.5	116.39	6.7903	0.330
15.75	577.2	419.2	116.40	6.6984	0.333
16.00	579.9	422.0	116.40	6.6094	0.336
16.25	582.7	424.8	116.41	6.5231	0.340

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

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Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
16.50	585.3	427.4	116.41	6.4394	0.343
16.75	588.0	430.0	116.42	6.3582	0.346
17.00	590.5	432.6	116.43	6.2794	0.349
17.25	592.9	435.0	116.43	6.2029	0.352
17.50	595.4	437.4	116.43	6.1286	0.354
17.75	597.9	439.9	116.42	6.0563	0.357
18.00	600.2	442.2	116.45	5.9861	0.360
18.25	602.7	444.7	116.45	5.9178	0.363
18.50	606.8	448.8	116.45	5.8514	0.368
18.75	610.9	453.0	116.45	5.7867	0.373
19.00	614.0	456.1	116.46	5.7237	0.377
19.25	617.4	459.4	116.46	5.6623	0.381
19.50	620.8	462.9	116.47	5.6026	0.385
19.75	624.3	466.4	116.47	5.5443	0.390
20.00	628.0	470.1	116.48	5.4875	0.394
20.25	631.4	473.4	116.49	5.4321	0.399
20.50	634.6	476.6	116.48	5.3780	0.403
20.75	637.5	479.6	116.49	5.3253	0.406
21.00	640.5	482.6	116.49	5.2738	0.410
21.25	643.5	485.5	116.49	5.2235	0.414
21.50	646.3	488.4	116.50	5.1744	0.418
21.75	649.6	491.6	116.50	5.1264	0.422
22.00	652.7	494.8	116.50	5.0795	0.426
22.25	655.4	497.4	116.50	5.0337	0.430
22.50	658.3	500.4	116.51	4.9889	0.433
22.75	661.2	503.2	116.51	4.9451	0.437
23.00	663.9	506.0	116.54	4.9022	0.441
23.25	666.6	508.7	116.52	4.8602	0.444
23.50	669.5	511.5	116.53	4.8191	0.448
23.75	672.3	514.3	116.53	4.7789	0.452
24.00	675.1	517.2	116.53	4.7396	0.456
24.25	677.6	519.7	116.54	4.7010	0.459
24.50	680.1	522.1	116.54	4.6633	0.462
24.75	682.2	524.3	116.55	4.6263	0.465
25.00	684.6	526.6	116.55	4.5900	0.469
25.25	686.9	528.9	116.54	4.5545	0.472
25.50	689.5	531.5	116.55	4.5196	0.475
25.75	691.7	533.8	116.56	4.4854	0.478
26.00	694.0	536.0	116.56	4.4519	0.482
26.25	696.3	538.3	116.56	4.4190	0.485
26.50	698.5	540.6	116.56	4.3868	0.488
26.75	701.0	543.0	116.57	4.3551	0.491
27.00	703.3	545.4	116.57	4.3241	0.495
27.25	705.5	547.5	116.57	4.2936	0.498
27.50	707.8	549.9	116.58	4.2636	0.501
27.75	709.9	551.9	116.58	4.2342	0.504
28.00	711.6	553.7	116.60	4.2054	0.506
28.25	713.9	555.9	116.60	4.1770	0.510
28.50	716.1	558.1	116.59	4.1491	0.513
28.75	718.2	560.3	116.59	4.1217	0.516
29.00	720.2	562.2	116.58	4.0948	0.519

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

TIME: 22:16:41

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
29.25	722.4	564.4	116.60	4.0684	0.522
29.50	724.4	566.4	116.60	4.0424	0.525
29.75	726.3	568.4	116.60	4.0168	0.528
30.00	728.2	570.3	116.61	3.9917	0.530
30.25	730.1	572.1	116.61	3.9669	0.533
30.50	732.0	574.1	116.62	3.9426	0.536
30.75	733.9	576.0	116.61	3.9187	0.539
31.00	735.8	577.8	116.63	3.8952	0.541
31.25	737.4	579.4	116.62	3.8720	0.544
31.50	739.3	581.4	116.63	3.8492	0.547
31.75	741.1	583.1	116.63	3.8268	0.549
32.00	742.7	584.7	116.63	3.8047	0.552
32.25	744.5	586.6	116.63	3.7829	0.554
32.50	746.0	588.1	116.64	3.7615	0.557
32.75	748.0	590.0	116.63	3.7405	0.559
33.00	749.7	591.8	116.64	3.7197	0.562
33.25	751.3	593.4	116.64	3.6992	0.564
33.50	753.0	595.0	116.65	3.6791	0.567
33.75	754.6	596.6	116.64	3.6593	0.569
34.00	756.1	598.2	116.65	3.6397	0.572
34.25	757.8	599.8	116.65	3.6204	0.574
34.50	759.1	601.2	116.65	3.6014	0.576
34.75	760.6	602.7	116.65	3.5827	0.579
35.00	762.1	604.2	116.67	3.5643	0.581
35.25	763.7	605.8	116.66	3.5461	0.583
35.50	765.2	607.3	116.66	3.5282	0.586
35.75	766.6	608.6	116.66	3.5105	0.588
36.00	768.3	610.3	116.67	3.4931	0.590
36.25	769.7	611.7	116.67	3.4759	0.592
36.50	771.1	613.2	116.67	3.4589	0.595
36.75	772.7	614.8	116.67	3.4422	0.597
37.00	773.9	615.9	116.67	3.4257	0.599
37.25	775.4	617.5	116.68	3.4094	0.601
37.50	776.7	618.8	116.67	3.3933	0.603
37.75	778.1	620.1	116.68	3.3775	0.605
38.00	779.4	621.5	116.69	3.3618	0.608
38.25	780.9	622.9	116.69	3.3464	0.610
38.50	782.2	624.3	116.68	3.3312	0.612
38.75	783.5	625.6	116.70	3.3161	0.614
39.00	784.7	626.8	116.70	3.3013	0.616
39.25	786.0	628.0	116.69	3.2866	0.618
39.50	787.3	629.4	116.70	3.2722	0.620
39.75	788.6	630.6	116.70	3.2579	0.622
40.00	789.8	631.8	116.70	3.2437	0.624
40.25	791.0	633.1	116.70	3.2298	0.626
40.50	792.1	634.2	116.70	3.2160	0.627
40.75	793.3	635.3	116.70	3.2025	0.629
41.00	794.3	636.3	116.70	3.1890	0.631
41.25	795.5	637.5	116.71	3.1758	0.633
41.50	796.6	638.7	116.72	3.1627	0.635
41.75	797.8	639.9	116.72	3.1497	0.636

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
42.00	799.0	641.0	116.71	3.1369	0.638
42.25	799.9	642.0	116.71	3.1243	0.640
42.50	801.0	643.1	116.72	3.1118	0.642
42.75	802.1	644.1	116.72	3.0994	0.643
43.00	803.1	645.2	116.72	3.0872	0.645
43.25	804.1	646.2	116.73	3.0751	0.647
43.50	805.1	647.2	116.73	3.0632	0.648
43.75	806.0	648.0	116.74	3.0514	0.650
44.00	807.0	649.0	116.73	3.0398	0.651
44.25	808.0	650.1	116.73	3.0282	0.653
44.50	809.1	651.1	116.73	3.0169	0.655
44.75	810.7	652.7	116.74	3.0056	0.657
45.00	812.0	654.0	116.73	2.9944	0.659
45.25	813.3	655.3	116.74	2.9834	0.661
45.50	814.3	656.4	116.74	2.9725	0.663
45.75	815.5	657.6	116.76	2.9617	0.665
46.00	816.6	658.7	116.74	2.9511	0.667
46.25	817.6	659.7	116.74	2.9405	0.668
46.50	818.5	660.6	116.74	2.9301	0.670
46.75	819.6	661.7	116.75	2.9198	0.672
47.00	820.6	662.7	116.75	2.9096	0.673
47.25	821.6	663.6	116.75	2.8995	0.675
47.50	822.5	664.5	116.76	2.8895	0.676
47.75	823.5	665.5	116.76	2.8796	0.678
48.00	824.3	666.4	116.76	2.8698	0.680
48.25	825.4	667.5	116.77	2.8601	0.681
48.50	826.3	668.3	116.76	2.8505	0.683
48.75	827.2	669.2	116.75	2.8410	0.684
49.00	828.0	670.1	116.76	2.8316	0.686
49.25	828.9	670.9	116.76	2.8223	0.687
49.50	829.7	671.8	116.76	2.8131	0.688
49.75	830.7	672.8	116.77	2.8040	0.690
50.00	831.4	673.4	116.77	2.7950	0.691
50.25	832.3	674.4	116.77	2.7861	0.693
50.50	833.1	675.2	116.77	2.7772	0.694
50.75	834.0	676.0	116.77	2.7685	0.696
51.00	834.8	676.9	116.78	2.7598	0.697
51.25	835.5	677.5	116.77	2.7512	0.698
51.50	836.3	678.4	116.78	2.7427	0.699
51.75	837.2	679.2	116.77	2.7343	0.701
52.00	837.9	680.0	116.78	2.7260	0.702
52.25	838.6	680.7	116.79	2.7177	0.703
52.50	839.4	681.4	116.78	2.7095	0.705
52.75	840.1	682.2	116.78	2.7014	0.706
53.00	840.9	682.9	116.79	2.6934	0.707
53.25	841.5	683.6	116.79	2.6854	0.708
53.50	842.3	684.3	116.79	2.6776	0.709
53.75	843.0	685.0	116.80	2.6698	0.711
54.00	843.7	685.8	116.79	2.6620	0.712
54.25	844.5	686.5	116.80	2.6544	0.713
54.50	845.1	687.2	116.79	2.6468	0.714

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
54.75	845.8	687.9	116.80	2.6393	0.715
55.00	846.5	688.5	116.80	2.6318	0.717
55.25	847.2	689.2	116.80	2.6244	0.718
55.50	847.8	689.9	116.80	2.6171	0.719
55.75	848.4	690.5	116.81	2.6099	0.720
56.00	849.2	691.2	116.80	2.6027	0.721
56.25	849.8	691.9	116.81	2.5956	0.722
56.50	850.6	692.7	116.82	2.5885	0.724
56.75	851.2	693.2	116.80	2.5815	0.725
57.00	851.9	693.9	116.81	2.5746	0.726
57.25	852.4	694.5	116.81	2.5677	0.727
57.50	853.0	695.1	116.82	2.5609	0.728
57.75	853.6	695.7	116.81	2.5541	0.729
58.00	854.3	696.3	116.82	2.5474	0.730
58.25	854.9	696.9	116.81	2.5408	0.731
58.50	855.6	697.6	116.82	2.5342	0.732
58.75	856.1	698.1	116.83	2.5277	0.733
59.00	856.6	698.7	116.83	2.5212	0.734
59.25	857.2	699.3	116.83	2.5148	0.735
59.50	857.7	699.8	116.83	2.5084	0.736
59.75	858.3	700.4	116.83	2.5021	0.737
60.00	859.0	701.0	116.84	2.4958	0.738
60.25	859.6	701.6	116.81	2.4896	0.739
60.50	860.2	702.2	116.82	2.4835	0.740
60.75	860.8	702.8	116.84	2.4774	0.741
61.00	861.3	703.3	116.84	2.4713	0.742
61.25	861.8	703.9	116.82	2.4653	0.743
61.50	862.3	704.4	116.84	2.4593	0.744
61.75	862.9	705.0	116.84	2.4534	0.745
62.00	863.5	705.6	116.85	2.4476	0.746
62.25	863.9	706.0	116.85	2.4418	0.746
62.50	864.4	706.5	116.84	2.4360	0.747
62.75	865.0	707.0	116.83	2.4303	0.748
63.00	865.5	707.6	116.86	2.4246	0.749
63.25	866.0	708.1	116.85	2.4190	0.750
63.50	866.4	708.4	116.86	2.4134	0.751
63.75	867.0	709.0	116.86	2.4078	0.752
64.00	867.6	709.6	116.85	2.4023	0.753
64.25	868.1	710.1	116.87	2.3969	0.754
64.50	868.6	710.6	116.86	2.3915	0.754
64.75	869.1	711.2	116.85	2.3861	0.755
65.00	869.6	711.6	116.86	2.3808	0.756
65.25	870.0	712.0	116.87	2.3755	0.757
65.50	870.6	712.6	116.86	2.3702	0.758
65.75	870.9	713.0	116.87	2.3650	0.758
66.00	871.5	713.6	116.87	2.3598	0.760
66.25	871.9	714.0	116.87	2.3547	0.760
66.50	872.4	714.5	116.87	2.3496	0.761
66.75	872.8	714.9	116.87	2.3446	0.762
67.00	873.3	715.4	116.87	2.3396	0.763
67.25	873.8	715.9	116.89	2.3346	0.764

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
67.50	874.2	716.2	116.89	2.3296	0.764
67.75	874.6	716.7	116.87	2.3247	0.765
68.00	875.2	717.2	116.87	2.3199	0.766
68.25	875.5	717.6	116.87	2.3150	0.767
68.50	876.0	718.1	116.88	2.3102	0.767
68.75	876.4	718.5	116.88	2.3055	0.768
69.00	876.9	718.9	116.88	2.3007	0.769
69.25	877.3	719.3	116.88	2.2960	0.770
69.50	877.7	719.8	116.88	2.2914	0.770
69.75	878.1	720.2	116.88	2.2867	0.771
70.00	878.6	720.7	116.89	2.2821	0.772
70.25	879.1	721.1	116.88	2.2776	0.773
70.50	879.6	721.6	116.89	2.2730	0.774
70.75	879.9	721.9	116.89	2.2686	0.774
71.00	880.4	722.5	116.89	2.2641	0.775
71.25	880.6	722.6	116.89	2.2596	0.775
71.50	881.1	723.2	116.89	2.2552	0.776
71.75	881.5	723.5	116.90	2.2509	0.777
72.00	881.9	724.0	116.90	2.2465	0.778
72.25	882.3	724.4	116.90	2.2422	0.778
72.50	882.7	724.7	116.90	2.2379	0.779
72.75	883.0	725.1	116.90	2.2337	0.780
73.00	883.5	725.6	116.90	2.2295	0.781
73.25	883.8	725.9	116.90	2.2253	0.781
73.50	884.2	726.2	116.90	2.2211	0.782
73.75	884.5	726.6	116.90	2.2169	0.782
74.00	884.9	727.0	116.89	2.2128	0.783
74.25	885.3	727.3	116.90	2.2088	0.784
74.50	885.7	727.7	116.90	2.2047	0.784
74.75	886.0	728.1	116.91	2.2007	0.785
75.00	886.4	728.5	116.90	2.1967	0.786
75.25	886.8	728.8	116.91	2.1927	0.786
75.50	887.1	729.2	116.91	2.1887	0.787
75.75	887.5	729.6	116.91	2.1848	0.788
76.00	887.9	729.9	116.92	2.1809	0.788
76.25	888.2	730.3	116.91	2.1770	0.789
76.50	888.6	730.7	116.90	2.1732	0.790
76.75	889.0	731.0	116.91	2.1694	0.790
77.00	889.2	731.3	116.93	2.1656	0.791
77.25	889.5	731.6	116.92	2.1618	0.791
77.50	890.0	732.0	116.91	2.1581	0.792
77.75	890.2	732.3	116.92	2.1543	0.792
78.00	890.5	732.6	116.93	2.1506	0.793
78.25	891.0	733.0	116.92	2.1470	0.794
78.50	891.2	733.3	116.93	2.1433	0.794
78.75	891.6	733.7	116.92	2.1397	0.795
79.00	891.9	733.9	116.93	2.1361	0.795
79.25	892.2	734.3	116.93	2.1325	0.796
79.50	892.6	734.6	116.93	2.1289	0.797
79.75	893.0	735.0	116.93	2.1254	0.797
80.00	893.4	735.5	116.93	2.1219	0.798

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#9700 DST#1 Singley #5 American Warrior Inc.

DATE: 03/19/97

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6	
	80.25	893.5	735.5	116.93	2.1184	0.798	
	80.50	893.9	736.0	116.93	2.1149	0.799	
	80.75	894.3	736.4	116.93	2.1115	0.800	
	81.00	894.6	736.6	116.93	2.1080	0.800	
	81.25	894.8	736.9	116.94	2.1046	0.801	
	81.50	895.2	737.2	116.94	2.1012	0.801	
	81.75	895.6	737.6	116.93	2.0979	0.802	
	82.00	895.7	737.7	116.94	2.0945	0.802	
	82.25	896.1	738.1	116.94	2.0912	0.803	
	82.50	896.3	738.4	116.94	2.0879	0.803	
	82.75	896.8	738.8	116.94	2.0846	0.804	
	83.00	897.0	739.1	116.94	2.0813	0.805	
	83.25	897.3	739.3	116.95	2.0781	0.805	
	83.50	897.6	739.7	116.94	2.0749	0.806	
	83.75	897.9	739.9	116.96	2.0716	0.806	
	84.00	898.3	740.3	116.95	2.0685	0.807	
	84.25	898.4	740.5	116.94	2.0653	0.807	
	84.50	898.8	740.8	116.96	2.0621	0.808	
	84.75	899.0	741.1	116.96	2.0590	0.808	
	85.00	899.2	741.3	116.95	2.0559	0.809	
	85.25	899.6	741.7	116.96	2.0528	0.809	
	85.50	899.9	741.9	116.95	2.0497	0.810	
	85.75	900.0	742.1	116.97	2.0466	0.810	
	86.00	900.4	742.4	116.96	2.0436	0.811	
	86.25	900.6	742.7	116.96	2.0406	0.811	
	86.50	901.0	743.0	116.97	2.0376	0.812	
	86.75	901.1	743.2	116.96	2.0346	0.812	
	87.00	901.5	743.5	116.96	2.0316	0.813	
	87.25	901.7	743.8	116.97	2.0287	0.813	
	87.50	902.0	744.0	116.97	2.0257	0.814	
	87.75	902.2	744.3	116.97	2.0228	0.814	
	88.00	902.6	744.6	116.97	2.0199	0.815	
	88.25	902.8	744.9	116.97	2.0170	0.815	
	88.50	903.1	745.1	116.98	2.0141	0.816	
	88.75	903.3	745.4	116.99	2.0113	0.816	
	89.00	903.6	745.6	116.99	2.0084	0.816	
*****	End Shut-in 2	89.25	903.9	746.0	117.00	2.0056	0.817
*****	Final Hydro.	404.00	2448.2	0.0	117.05		

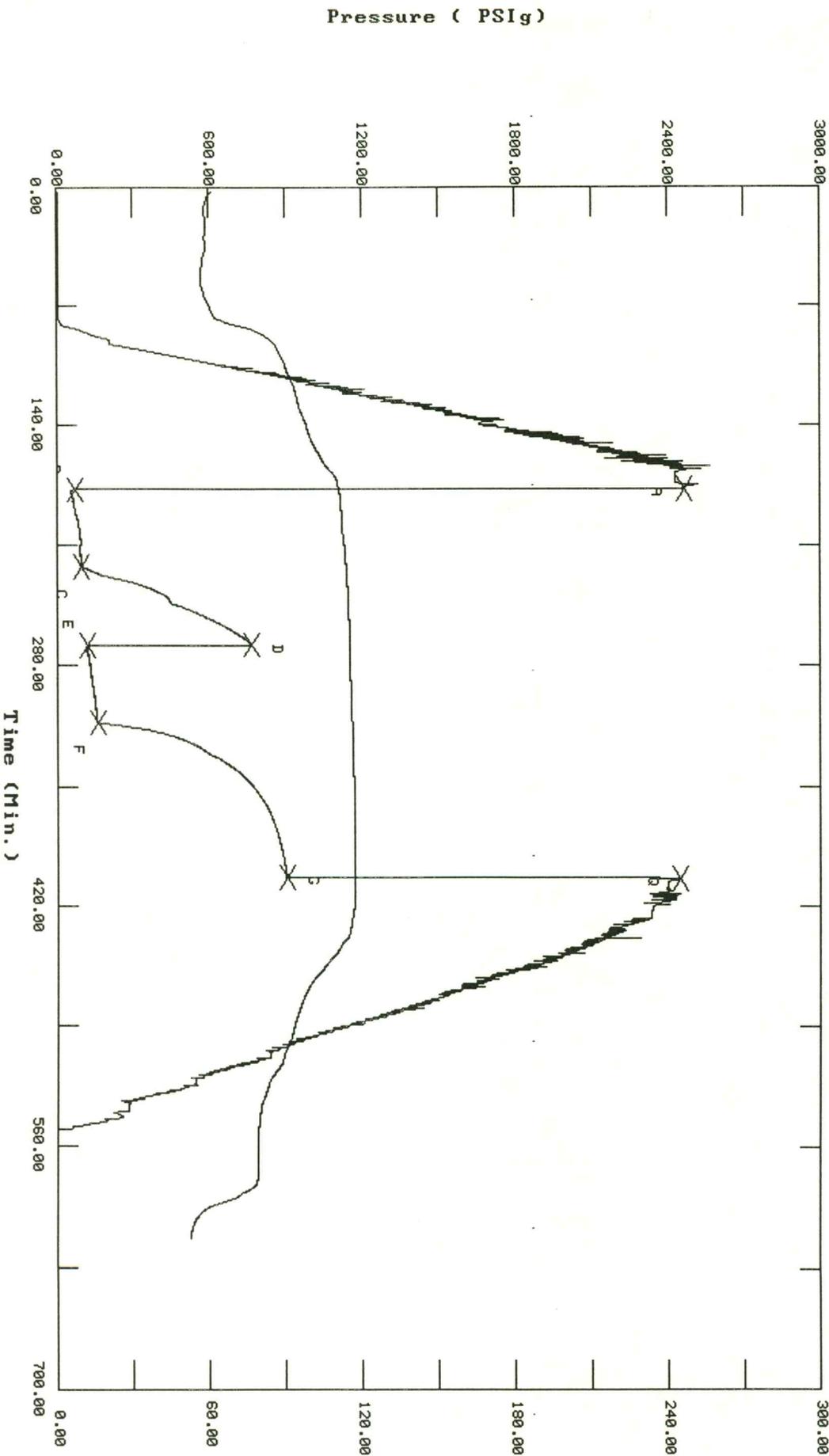
TK#9700 DST#1 Singley #5 American Warrior Inc.

TEST HISTORY

Flag Points

(Min.) (PSig)

A:	0.00	2468.56
B:	0.00	70.07
C:	45.00	96.42
D:	45.75	766.08
E:	0.00	119.34
F:	44.75	157.94
G:	89.25	903.89
H:	0.00	2448.25



Temperature (DEG F)

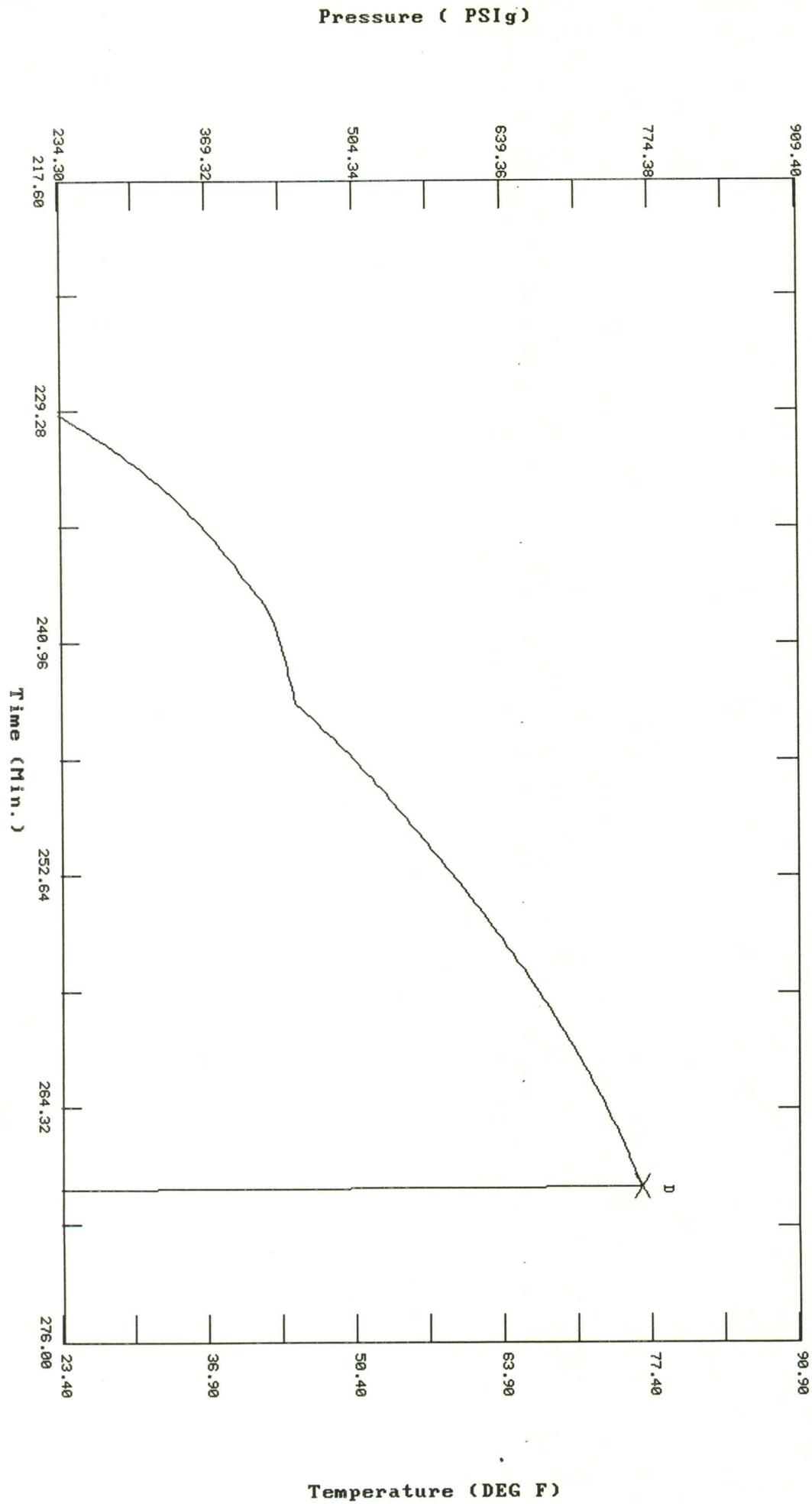
Pressure (PSig)

Time (Min.)

TEST HISTORY
 Tk#9700 DST#1 Singley #5 American Warrior Inc.

Flag Points
 t<Min.> P< PSig>

A:	0.00	2468.56
B:	0.00	70.07
C:	45.00	96.42
D:	45.75	766.08
E:	0.00	119.34
F:	44.75	157.94
G:	89.25	903.89
Q:	0.00	2448.25

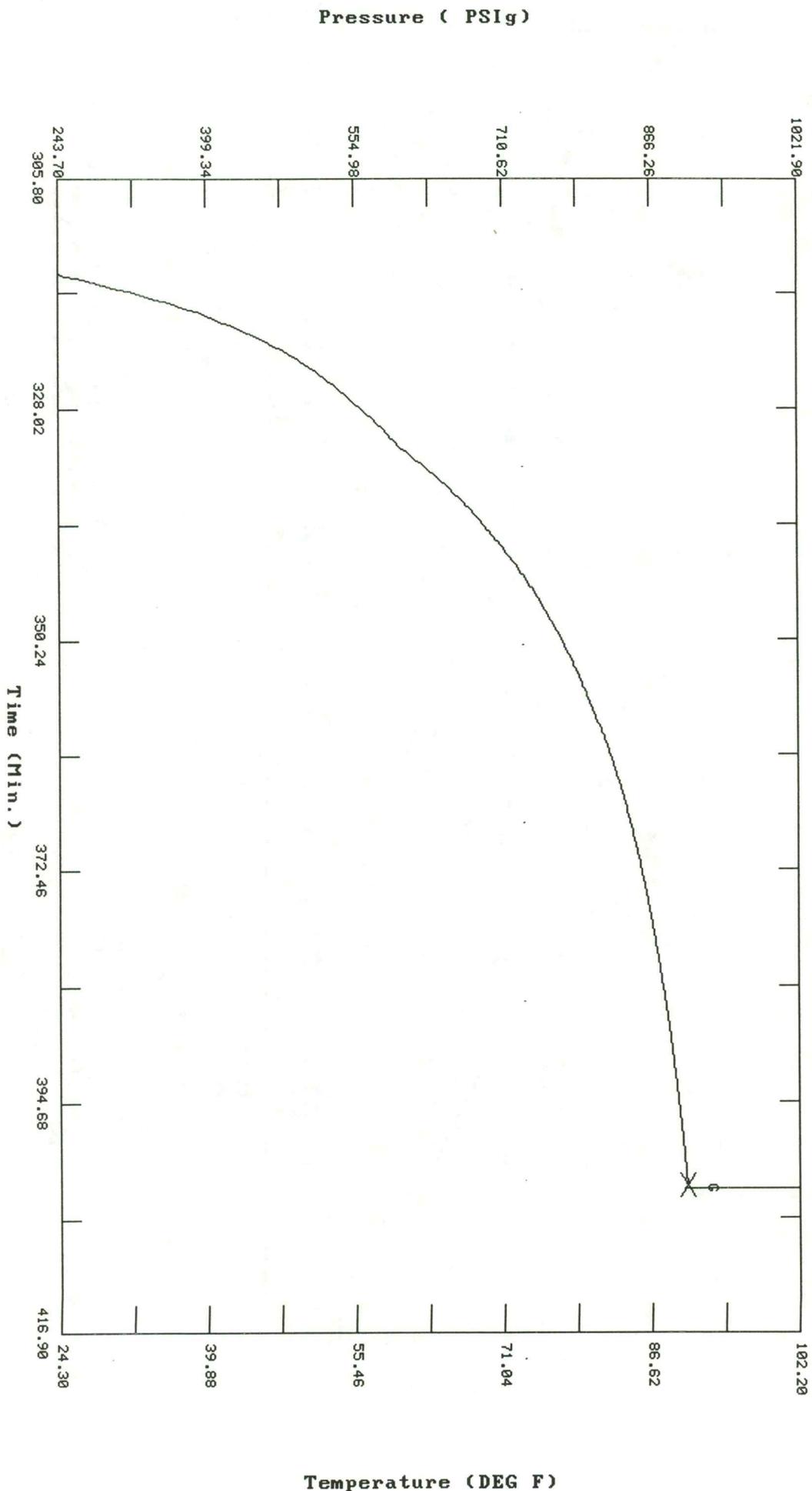


TEST HISTORY

TK#9700 DST#1 Singley #5 American Warrior Inc.

Flag Points
 t(min.) P(PSig)

A:	0.00	2468.56
B:	0.00	70.07
C:	45.00	96.42
D:	45.75	766.08
E:	0.00	119.34
F:	44.75	157.94
G:	89.25	903.89
Q:	0.00	2448.25



TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior Inc. DATE 3/21/97
 WELL NAME: Singley #5 KB 2785.00 ft TICKET NO: 10001 DST #2
 LOCATION : Sec.34 Twp.32s Rge.31w GR 2775.00 ft FORMATION: Atoka
 INTERVAL : 5492.00 To 5514.00 ft TD 5514.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 20 Rec.	10991	10991	2350			PF Fr. 0056 to 0116 hr
SI 30 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0116 to 0146 hr
SF 10 Clock(hrs)	12hr.	12hr	Elec			SF Fr. 0146 to 0205 hr
FS 0 Depth(ft)	5511.0	5511.0	5498.0	0.0	0.0	FS Fr. pull to tool hr

	Field	1	2	3	4	
A. Init Hydro	2649.0	2668.0	2658.0	0.0	0.0	T STARTED 2207 hr
B. First Flow	32.0	54.0	19.0	0.0	0.0	T ON BOTM 0052 hr
B1. Final Flow	32.0	38.0	23.0	0.0	0.0	T OPEN 0056 hr
C. In Shut-in	43.0	37.0	42.0	0.0	0.0	T PULLED 0205 hr
D. Init Flow	0.0	41.0	17.0	0.0	0.0	T OUT 0530 hr
E. Final Flow	0.0	36.0	20.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2617.0	2613.0	2628.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 100000.00 lbs
						Initial Str Wt 84000.00 lbs
						Unseated Str Wt 84000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 556.00 ft
						D.P. Length 4990.00 ft

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 ft of Drilling mud
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow, died in 11 mins

Initial Shut In:

Final Flow:
 Weak surface blow, died in 10 mins

Final Shut In:
 Pulled tool

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	51.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

Cushion Type
 Reversed Out
 Tool Chased
 Tester Darren Amerine
 Co. Rep. Scott Corsair
 Contr. Val Energy
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Singley #5

LOCATION : Sec.34 Twp.32s Rge.31w

TICKET No. 10001 D.S.T. No. 2 DATE 3/21/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 50

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 50

D.C. ABOVE TOOLS.Stands9 Single Total 556

D.P. ABOVE TOOLS.Stands79 Single 1 Total 4940

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5546

TOTAL DEPTH 5514

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

P.O. SUB	
C.O. SUB	5465
S.I. TOOL	5470
HMV	5475
JARS	5481
SAFETY JOINT	5483
PACKER	5487
PACKER	5492
DEPTH STUBB 1'to ANCHOR	5493
alpine rec @ 5498'	5493
T.C. DEPTH	
19'perfs to	5512
ak-1 rec.@ 5511'	
BULLNOSE 2'bullnose to T.D.	5514'

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10001 DST#2 Singley #5 American Warrior, Inc.

DATE: 03/21/97 TIME: 22:09:50

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	170.00	2657.9	0.0	116.39		
***** Start Flow 1	0.00	18.6	0.0	116.38		
	0.25	19.9	1.3	116.38		
	0.50	20.1	1.4	116.39		
	0.75	20.2	1.6	116.39		
	1.00	20.2	1.6	116.39		
	1.25	20.2	1.6	116.40		
	1.50	20.4	1.8	116.40		
	1.75	20.4	1.8	116.40		
	2.00	20.5	1.8	116.40		
	2.25	20.6	1.9	116.40		
	2.50	20.5	1.8	116.39		
	2.75	20.6	2.0	116.39		
	3.00	20.7	2.1	116.40		
	3.25	20.7	2.1	116.39		
	3.50	20.7	2.1	116.39		
	3.75	20.8	2.2	116.39		
	4.00	20.8	2.2	116.39		
	4.25	20.8	2.2	116.38		
	4.50	20.9	2.3	116.39		
	4.75	20.9	2.3	116.39		
	5.00	20.9	2.3	116.39		
	5.25	20.9	2.3	116.39		
	5.50	20.9	2.3	116.39		
	5.75	20.9	2.3	116.39		
	6.00	21.1	2.4	116.38		
	6.25	21.1	2.4	116.38		
	6.50	21.0	2.4	116.38		
	6.75	21.0	2.4	116.39		
	7.00	21.1	2.5	116.39		
	7.25	21.1	2.5	116.39		
	7.50	21.2	2.6	116.39		
	7.75	21.2	2.6	116.39		
	8.00	21.2	2.6	116.40		
	8.25	21.2	2.6	116.40		
	8.50	21.2	2.6	116.40		
	8.75	21.3	2.7	116.40		
	9.00	21.3	2.7	116.41		
	9.25	21.3	2.7	116.41		
	9.50	21.3	2.7	116.41		
	9.75	21.3	2.7	116.42		
	10.00	21.4	2.8	116.41		
	10.25	21.4	2.8	116.42		
	10.50	21.4	2.8	116.43		
	10.75	21.5	2.9	116.42		
	11.00	21.5	2.9	116.43		
	11.25	21.5	2.9	116.44		
	11.50	21.5	2.9	116.44		
	11.75	21.5	2.9	116.44		
	12.00	21.6	3.0	116.45		
	12.25	21.6	3.0	116.46		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10001 DST#2 Singley #5 American Warrior, Inc.

DATE: 03/21/97 TIME: 22:09:50

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	12.50	21.8	3.2	116.46		
	12.75	21.8	3.2	116.46		
	13.00	21.8	3.2	116.47		
	13.25	21.7	3.1	116.47		
	13.50	21.7	3.1	116.48		
	13.75	21.7	3.1	116.48		
	14.00	21.9	3.3	116.50		
	14.25	21.9	3.3	116.50		
	14.50	21.9	3.3	116.50		
	14.75	21.9	3.3	116.51		
	15.00	21.9	3.3	116.52		
	15.25	21.9	3.3	116.52		
	15.50	22.0	3.4	116.53		
	15.75	22.0	3.4	116.54		
	16.00	22.0	3.4	116.55		
	16.25	22.1	3.4	116.56		
	16.50	22.1	3.4	116.56		
	16.75	22.1	3.4	116.57		
	17.00	22.1	3.5	116.58		
	17.25	22.1	3.5	116.58		
	17.50	22.1	3.5	116.59		
	17.75	22.1	3.5	116.59		
	18.00	22.1	3.5	116.61		
	18.25	22.2	3.6	116.61		
	18.50	22.2	3.6	116.62		
	18.75	22.1	3.5	116.63		
	19.00	22.1	3.5	116.63		
	19.25	22.3	3.7	116.64		
	19.50	22.5	3.9	116.65		
	19.75	22.6	3.9	116.66		
	20.00	22.6	3.9	116.67		
	20.25	22.7	4.0	116.68		
*****	End Flow 1	20.50	22.7	4.0	116.68	
*****	Start Shutin 1	0.00	22.7	0.0	116.68	0.0000
		0.25	22.7	0.0	116.69	83.0000
		0.50	22.7	0.0	116.70	42.0000
		0.75	22.7	0.0	116.71	28.3333
		1.00	22.6	-0.1	116.72	21.5000
		1.25	22.6	-0.1	116.73	17.4000
		1.50	22.6	-0.1	116.73	14.6667
		1.75	22.7	0.1	116.74	12.7143
		2.00	22.7	0.1	116.75	11.2500
		2.25	22.7	0.1	116.76	10.1111
		2.50	22.7	0.1	116.77	9.2000
		2.75	22.7	0.1	116.78	8.4545
		3.00	23.1	0.4	116.79	7.8333
		3.25	23.4	0.8	116.80	7.3077
		3.50	23.5	0.8	116.81	6.8571
		3.75	23.8	1.2	116.82	6.4667
		4.00	23.9	1.3	116.83	6.1250
		4.25	24.2	1.5	116.83	5.8235

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK#10001 DST#2 Singley #5 American Warrior, Inc.
 DATE: 03/21/97 TIME: 22:09:50

Time	Pressure PSig	delta P PSig	P DEG F	(T+dT)/dT	P^2/10^6
4.50	24.3	1.7	116.85	5.5556	0.001
4.75	24.5	1.8	116.85	5.3158	0.001
5.00	24.8	2.1	116.86	5.1000	0.001
5.25	24.8	2.2	116.88	4.9048	0.001
5.50	25.1	2.4	116.89	4.7273	0.001
5.75	25.3	2.6	116.90	4.5652	0.001
6.00	25.4	2.8	116.90	4.4167	0.001
6.25	25.7	3.0	116.91	4.2800	0.001
6.50	25.8	3.1	116.92	4.1538	0.001
6.75	26.0	3.4	116.93	4.0370	0.001
7.00	26.2	3.5	116.94	3.9286	0.001
7.25	26.3	3.6	116.95	3.8276	0.001
7.50	26.4	3.8	116.96	3.7333	0.001
7.75	26.7	4.0	116.97	3.6452	0.001
8.00	26.8	4.2	116.98	3.5625	0.001
8.25	27.1	4.4	116.99	3.4848	0.001
8.50	27.2	4.5	117.00	3.4118	0.001
8.75	27.4	4.8	117.01	3.3429	0.001
9.00	27.6	5.0	117.02	3.2778	0.001
9.25	27.8	5.1	117.03	3.2162	0.001
9.50	27.9	5.3	117.03	3.1579	0.001
9.75	28.1	5.5	117.05	3.1026	0.001
10.00	28.3	5.6	117.05	3.0500	0.001
10.25	28.4	5.8	117.06	3.0000	0.001
10.50	28.6	6.0	117.08	2.9524	0.001
10.75	28.9	6.2	117.09	2.9070	0.001
11.00	28.9	6.3	117.09	2.8636	0.001
11.25	29.1	6.5	117.11	2.8222	0.001
11.50	29.3	6.6	117.12	2.7826	0.001
11.75	29.5	6.9	117.12	2.7447	0.001
12.00	29.7	7.0	117.13	2.7083	0.001
12.25	30.0	7.3	117.15	2.6735	0.001
12.50	30.0	7.4	117.16	2.6400	0.001
12.75	30.3	7.6	117.16	2.6078	0.001
13.00	30.3	7.6	117.18	2.5769	0.001
13.25	30.5	7.9	117.19	2.5472	0.001
13.50	30.6	8.0	117.20	2.5185	0.001
13.75	30.9	8.2	117.21	2.4909	0.001
14.00	31.0	8.4	117.22	2.4643	0.001
14.25	31.2	8.6	117.23	2.4386	0.001
14.50	31.4	8.7	117.24	2.4138	0.001
14.75	31.5	8.9	117.25	2.3898	0.001
15.00	31.7	9.1	117.25	2.3667	0.001
15.25	31.9	9.2	117.26	2.3443	0.001
15.50	32.1	9.4	117.28	2.3226	0.001
15.75	32.1	9.5	117.28	2.3016	0.001
16.00	32.4	9.7	117.30	2.2812	0.001
16.25	32.5	9.8	117.31	2.2615	0.001
16.50	32.7	10.1	117.31	2.2424	0.001
16.75	32.8	10.2	117.33	2.2239	0.001
17.00	33.0	10.3	117.34	2.2059	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10001 DST#2 Singley #5 American Warrior, Inc.

DATE: 03/21/97

TIME: 22:09:50

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
17.25	33.1	10.4	117.35	2.1884	0.001
17.50	33.2	10.6	117.36	2.1714	0.001
17.75	33.4	10.7	117.36	2.1549	0.001
18.00	33.6	11.0	117.38	2.1389	0.001
18.25	33.7	11.1	117.39	2.1233	0.001
18.50	33.9	11.2	117.40	2.1081	0.001
18.75	34.1	11.4	117.41	2.0933	0.001
19.00	34.2	11.6	117.42	2.0789	0.001
19.25	34.4	11.7	117.42	2.0649	0.001
19.50	34.6	11.9	117.43	2.0513	0.001
19.75	34.7	12.0	117.44	2.0380	0.001
20.00	34.8	12.2	117.46	2.0250	0.001
20.25	35.0	12.3	117.47	2.0123	0.001
20.50	35.1	12.4	117.47	2.0000	0.001
20.75	35.3	12.7	117.49	1.9880	0.001
21.00	35.3	12.7	117.50	1.9762	0.001
21.25	35.5	12.8	117.50	1.9647	0.001
21.50	35.7	13.0	117.52	1.9535	0.001
21.75	35.8	13.2	117.53	1.9425	0.001
22.00	35.9	13.3	117.53	1.9318	0.001
22.25	36.2	13.5	117.55	1.9213	0.001
22.50	36.3	13.7	117.56	1.9111	0.001
22.75	36.5	13.8	117.57	1.9011	0.001
23.00	36.7	14.0	117.58	1.8913	0.001
23.25	36.8	14.1	117.59	1.8817	0.001
23.50	36.9	14.3	117.59	1.8723	0.001
23.75	37.0	14.4	117.60	1.8632	0.001
24.00	37.2	14.5	117.61	1.8542	0.001
24.25	37.3	14.6	117.62	1.8454	0.001
24.50	37.4	14.8	117.63	1.8367	0.001
24.75	37.5	14.9	117.64	1.8283	0.001
25.00	37.8	15.1	117.65	1.8200	0.001
25.25	37.8	15.2	117.67	1.8119	0.001
25.50	38.0	15.4	117.67	1.8039	0.001
25.75	38.1	15.4	117.68	1.7961	0.001
26.00	38.3	15.6	117.69	1.7885	0.001
26.25	38.4	15.8	117.70	1.7810	0.001
26.50	38.6	15.9	117.72	1.7736	0.001
26.75	38.7	16.0	117.72	1.7664	0.001
27.00	38.8	16.1	117.73	1.7593	0.002
27.25	38.9	16.3	117.74	1.7523	0.002
27.50	39.0	16.4	117.75	1.7455	0.002
27.75	39.3	16.6	117.76	1.7387	0.002
28.00	39.3	16.6	117.77	1.7321	0.002
28.25	39.4	16.8	117.78	1.7257	0.002
28.50	39.6	17.0	117.79	1.7193	0.002
28.75	39.7	17.0	117.79	1.7130	0.002
29.00	39.9	17.2	117.81	1.7069	0.002
29.25	40.0	17.4	117.82	1.7009	0.002
29.50	40.2	17.5	117.82	1.6949	0.002
29.75	40.3	17.6	117.82	1.6891	0.002

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10001 DST#2 Singley #5 American Warrior, Inc.

DATE: 03/21/97 TIME: 22:09:50

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	30.00	40.4	17.7	117.84	1.6833	0.002
	30.25	40.5	17.9	117.85	1.6777	0.002
	30.50	40.5	17.9	117.86	1.6721	0.002
	30.75	40.8	18.1	117.87	1.6667	0.002
	31.00	40.9	18.3	117.88	1.6613	0.002
	31.25	41.0	18.4	117.89	1.6560	0.002
	31.50	41.2	18.5	117.90	1.6508	0.002
	31.75	41.3	18.6	117.90	1.6457	0.002
	32.00	41.4	18.7	117.92	1.6406	0.002
	32.25	41.5	18.8	117.92	1.6357	0.002
	32.50	41.6	19.0	117.94	1.6308	0.002
***** End Shut-in 1	32.75	41.7	19.1	117.94	1.6260	0.002
***** Start Flow 2	0.00	17.6	0.0	117.96		
	0.25	18.8	1.2	117.97		
	0.50	19.0	1.3	117.98		
	0.75	19.1	1.5	117.99		
	1.00	19.2	1.6	118.01		
	1.25	19.5	1.8	118.01		
	1.50	19.5	1.9	118.02		
	1.75	19.7	2.1	118.03		
	2.00	19.8	2.2	118.04		
	2.25	19.9	2.3	118.05		
	2.50	20.1	2.4	118.06		
	2.75	20.1	2.5	118.07		
	3.00	20.2	2.6	118.08		
	3.25	20.3	2.7	118.09		
	3.50	20.4	2.8	118.09		
	3.75	20.4	2.8	118.11		
	4.00	20.3	2.7	118.12		
	4.25	20.6	3.0	118.12		
	4.50	20.7	3.1	118.12		
	4.75	20.8	3.2	118.14		
	5.00	20.9	3.3	118.14		
	5.25	20.9	3.3	118.15		
	5.50	21.0	3.4	118.17		
	5.75	18.8	1.2	118.17		
	6.00	18.5	0.8	118.18		
	6.25	18.6	1.0	118.19		
	6.50	18.8	1.2	118.19		
	6.75	19.0	1.3	118.21		
	7.00	19.1	1.5	118.22		
	7.25	19.1	1.5	118.23		
	7.50	19.3	1.7	118.23		
	7.75	19.4	1.8	118.24		
	8.00	19.5	1.8	118.25		
	8.25	19.5	1.9	118.26		
	8.50	19.6	2.0	118.27		
	8.75	19.7	2.1	118.28		
	9.00	19.8	2.2	118.29		
	9.25	19.8	2.2	118.29		
	9.50	19.8	2.2	118.30		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10001 DST#2 Singley #5 American Warrior, Inc.

DATE: 03/21/97 TIME: 22:09:50

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	9.75	19.8	2.2	118.32		
	10.00	20.1	2.5	118.32		
	10.25	20.1	2.5	118.33		
	10.50	20.3	2.7	118.34		
	10.75	20.4	2.8	118.35		
	11.00	20.4	2.8	118.36		
	11.25	20.4	2.8	118.37		
	11.50	19.1	1.5	118.37		
	11.75	19.1	1.5	118.38		
	12.00	19.1	1.5	118.39		
	12.25	19.2	1.6	118.40		
	12.50	19.3	1.7	118.41		
	12.75	19.5	1.8	118.42		
	13.00	19.6	2.0	118.43		
	13.25	19.6	2.0	118.44		
	13.50	19.6	2.0	118.44		
	13.75	19.7	2.1	118.44		
	14.00	19.8	2.2	118.45		
	14.25	19.8	2.2	118.47		
	14.50	19.8	2.2	118.48		
	14.75	19.6	2.0	118.48		
	15.00	19.6	2.0	118.49		
	15.25	19.6	2.0	118.50		
	15.50	19.5	1.9	118.51		
	15.75	19.5	1.9	118.52		
	16.00	19.5	1.8	118.53		
	16.25	19.5	1.9	118.53		
	16.50	19.5	1.9	118.54		
*****	End Flow 2	16.75	19.6	2.0	118.55	
*****	Start Shutin 2	0.00	19.6	0.0	118.55	0.0000
		0.25	43.0	23.4	118.56	150.0000
		0.50	25.5	5.9	118.57	75.5000
		0.75	31.2	11.6	118.57	50.6667
		1.00	31.2	11.6	118.59	38.2500
*****	End Shut-in 2	1.25	2627.6	2608.0	118.62	30.8000
*****	Final Hydro.	242.00	2627.6	0.0	118.62	

TEST HISTORY

TK#10001 DST#2 Singley #5 American Warrior, Inc.

Flag Points

t (Min.) P (PSig)

A:	0.00	2657.90
B:	0.00	18.62
C:	20.50	22.65
D:	32.75	41.70
E:	0.00	17.62
F:	16.75	19.63
G:	0.00	2627.60

