

Computer Inventoried

15-033-20924

ORIGINAL

WELL NAME: Nielson # 1-33
COMPANY: American Warrior
LOCATION: Sec. 33 Twp. 32S Rge. 19W
Comanche County Kansas
DATE: 2/07/97

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior

DATE 2/4/97

WELL NAME: Nelson #1-33

KB 1930.00 ft

TICKET NO: 9684

DST #1

LOCATION : 33-32s-19w Comanche KS

GR 1917.00 ft

FORMATION: Kansas City "A"

INTERVAL : 4701.00 To 4740.00 ft

TD 4740.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	2350			PF Fr. 1552 to 1622 hr
SI 60 Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 1622 to 1722 hr
SF 30 Clock(hrs)	12hr.	12hr.	Elec.			SF Fr. 1722 to 1752 hr
FS 60 Depth(ft)	4734.0	4734.0	4709.0	0.0	0.0	FS Fr. 1752 to 1852 hr

	Field	1	2	3	4	
A. Init Hydro	2166.0	2319.0	2303.0	0.0	0.0	T STARTED 1346 hr
B. First Flow	186.0	204.0	192.0	0.0	0.0	T ON BOTM 1550 hr
Bl. Final Flow	634.0	631.0	653.0	0.0	0.0	T OPEN 1552 hr
C. In Shut-in	1746.0	1721.0	1733.0	0.0	0.0	T PULLED 1852 hr
D. Init Flow	721.0	1717.0	692.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	1013.0	1000.0	1010.0	0.0	0.0	
F. Fl Shut-in	1746.0	1722.0	1731.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2166.0	2266.0	2239.0	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 lb
						Initial Str Wt 72000.00 lbs
						Unseated Str Wt 82000.00 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 243.00 ft
						D.P. Length 4463.00 ft

RECOVERY

Tot Fluid 2648.00 ft of 243.00 ft in DC and 1875.00 ft in DP
 248.00 ft of Gas Cut Watery Mud
 0.00 ft of 14% gas 10% oil 46% water 30% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 70000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical
 Weight 9.20 lb/
 Vis. 48.00 S/L
 W.L. 9.50 in3
 F.C. 0.32 in
 Mud Drop N

BLOW DESCRIPTION

Initial Flow:
 Strong blow, bottom of bucket in 30sec

Initial Shut In:
 Bled down for 5 mins, built back to
 Bottom in 15 mins

Final Flow:
 Strong blow, bottom of bucket
 instantly

Final Shut In:
 Bled down for 15 mins, built back to
 bottom of bucket

SAMPLES:
 SENT TO:

Amt. of fill 0.00 ft
 Btm. H. Temp. 127.00 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. Alan Downing
 Contr. DUKE
 Rig # 7
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Nelson #1-33

LOCATION : Sec.33 Twp.32s Rge.19w

TICKET No. 9684 D.S.T. No. 1 DATE 2/4/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27'

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 9'

TOTAL TOOL 36'

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands	1	Single	Total	30'
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TOTAL ASSEMBLY 66'

D.C. ABOVE TOOLS.	Stands	4	Single	Total	243'
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D.P. ABOVE TOOLS.	Stands	76	Single	1	Total	4463'
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4772'

TOTAL DEPTH 4740'

TOTAL DRILL PIPE ABOVE K.B. 32'

REMARKS:

P.O. SUB	
C.O. SUB	4674'
S.I. TOOL	4679'
HMV	4684'
JARS	4690'
SAFETY JOINT	4692'
PACKER Top	4696'
PACKER Bottom	4701'
DEPTH	
STUBB	
ANCHOR	
Alpine rec.@	4709'
6'perfs. to	4707'
T.C.	
DEPTH	
30'Drill pipe	4737'
Ak-1 rec @	4734
BULLNOSE 3'bullnose to	4740'
T.D.	

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9684 American Warrior DST#1 Nelson 1-33

DATE: 02/04/97 TIME: 13:47:23

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	126.00	2303.2	0.0	101.77		
***** Start Flow 1	0.00	191.5	0.0	101.83		
	1.00	198.5	7.0	101.90		
	2.00	215.6	24.1	102.00		
	3.00	237.2	45.7	102.08		
	4.00	257.9	66.4	102.16		
	5.00	280.1	88.6	102.22		
	6.00	301.5	110.0	102.29		
	7.00	322.4	130.8	102.36		
	8.00	343.2	151.7	102.43		
	9.00	362.7	171.2	102.52		
	10.00	382.6	191.1	102.61		
	11.00	401.5	210.0	102.75		
	12.00	418.7	227.2	102.87		
	13.00	435.6	244.1	103.04		
	14.00	452.3	260.8	103.24		
	15.00	469.5	278.0	103.45		
	16.00	485.3	293.7	103.69		
	17.00	501.0	309.4	103.93		
	18.00	515.9	324.4	104.21		
	19.00	531.5	340.0	104.49		
	20.00	546.7	355.2	104.80		
	21.00	561.6	370.0	105.13		
	22.00	576.7	385.2	105.46		
	23.00	591.3	399.8	105.80		
	24.00	604.8	413.3	106.14		
	25.00	618.5	426.9	106.50		
	26.00	630.5	438.9	106.83		
	27.00	640.9	449.3	107.23		
***** End Flow 1	28.00	652.6	461.1	107.60		
***** Start Shutin 1	0.00	652.6	0.0	107.60	0.0000	0.426
	1.00	1119.7	467.1	107.98	29.0000	1.254
	2.00	1297.3	644.6	108.36	15.0000	1.683
	3.00	1365.2	712.5	108.75	10.3333	1.864
	4.00	1411.1	758.5	109.16	8.0000	1.991
	5.00	1447.7	795.0	109.54	6.6000	2.096
	6.00	1481.0	828.4	109.93	5.6667	2.193
	7.00	1504.9	852.3	110.30	5.0000	2.265
	8.00	1525.3	872.7	110.68	4.5000	2.327
	9.00	1542.8	890.1	111.03	4.1111	2.380
	10.00	1558.1	905.5	111.39	3.8000	2.428
	11.00	1571.5	918.9	111.70	3.5455	2.470
	12.00	1583.3	930.7	112.07	3.3333	2.507
	13.00	1593.9	941.3	112.40	3.1538	2.540
	14.00	1603.7	951.1	112.71	3.0000	2.572
	15.00	1612.5	959.9	113.00	2.8667	2.600
	16.00	1612.8	960.2	113.31	2.7500	2.601
	17.00	1619.6	967.0	113.60	2.6471	2.623
	18.00	1626.3	973.6	113.86	2.5556	2.645
	19.00	1633.0	980.4	114.13	2.4737	2.667
	20.00	1639.3	986.7	114.35	2.4000	2.687

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
	11.00	832.0	140.1	119.49		
	12.00	843.7	151.8	119.54		
	13.00	854.5	162.7	119.60		
	14.00	865.7	173.8	119.65		
	15.00	876.0	184.1	119.72		
	16.00	887.0	195.1	119.80		
	17.00	897.2	205.3	119.89		
	18.00	908.0	216.1	119.97		
	19.00	917.5	225.6	120.06		
	20.00	927.3	235.4	120.14		
	21.00	937.1	245.2	120.25		
	22.00	946.9	255.0	120.34		
	23.00	956.4	264.5	120.45		
	24.00	965.5	273.6	120.55		
	25.00	974.6	282.7	120.63		
	26.00	983.5	291.6	120.75		
	27.00	992.0	300.1	120.84		
	28.00	1001.1	309.2	120.94		
***** End Flow 2	29.00	1009.8	317.9	121.05		
***** Start Shutin 2	0.00	1009.8	0.0	121.05	0.0000	1.020
	1.00	1288.2	278.4	121.13	58.0000	1.659
	2.00	1436.1	426.3	121.25	29.5000	2.062
	3.00	1484.0	474.2	121.36	20.0000	2.202
	4.00	1515.3	505.5	121.35	15.2500	2.296
	5.00	1538.5	528.7	121.61	12.4000	2.367
	6.00	1557.1	547.3	121.70	10.5000	2.425
	7.00	1572.3	562.5	121.82	9.1429	2.472
	8.00	1585.3	575.5	121.92	8.1250	2.513
	9.00	1596.2	586.4	122.01	7.3333	2.548
	10.00	1605.7	595.9	122.12	6.7000	2.578
	11.00	1614.1	604.3	122.20	6.1818	2.605
	12.00	1621.6	611.8	122.30	5.7500	2.630
	13.00	1628.3	618.5	122.37	5.3846	2.651
	14.00	1634.4	624.6	122.45	5.0714	2.671
	15.00	1639.9	630.0	122.52	4.8000	2.689
	16.00	1645.1	635.2	122.59	4.5625	2.706
	17.00	1649.8	639.9	122.65	4.3529	2.722
	18.00	1654.1	644.3	122.72	4.1667	2.736
	19.00	1658.2	648.4	122.79	4.0000	2.750
	20.00	1662.0	652.2	122.84	3.8500	2.762
	21.00	1665.5	655.7	122.92	3.7143	2.774
	22.00	1668.8	659.0	122.98	3.5909	2.785
	23.00	1672.2	662.4	123.02	3.4783	2.796
	24.00	1675.0	665.2	123.06	3.3750	2.806
	25.00	1677.8	668.0	123.12	3.2800	2.815
	26.00	1680.5	670.7	123.14	3.1923	2.824
	27.00	1683.1	673.3	123.19	3.1111	2.833
	28.00	1685.3	675.5	123.23	3.0357	2.840
	29.00	1687.8	678.0	123.28	2.9655	2.849
	30.00	1690.0	680.2	123.24	2.9000	2.856
	31.00	1692.1	682.2	123.33	2.8387	2.863

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9684 American Warrior DST#1 Nelson 1-33

DATE: 02/04/97

TIME: 13:47:23

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
21.00	1644.6	991.9	114.63	2.3333	2.705
22.00	1649.6	997.0	114.86	2.2727	2.721
23.00	1654.5	1001.8	115.08	2.2174	2.737
24.00	1658.8	1006.2	115.29	2.1667	2.752
25.00	1662.9	1010.2	115.53	2.1200	2.765
26.00	1666.9	1014.3	115.73	2.0769	2.778
27.00	1670.7	1018.1	115.93	2.0370	2.791
28.00	1674.1	1021.5	116.12	2.0000	2.803
29.00	1677.5	1024.8	116.30	1.9655	2.814
30.00	1680.6	1027.9	116.50	1.9333	2.824
31.00	1683.7	1031.1	116.67	1.9032	2.835
32.00	1686.5	1033.9	116.81	1.8750	2.844
33.00	1689.3	1036.7	116.95	1.8485	2.854
34.00	1691.8	1039.2	117.10	1.8235	2.862
35.00	1694.2	1041.6	117.25	1.8000	2.870
36.00	1696.7	1044.1	117.39	1.7778	2.879
37.00	1698.9	1046.3	117.53	1.7568	2.886
38.00	1701.2	1048.6	117.65	1.7368	2.894
39.00	1703.2	1050.6	117.78	1.7179	2.901
40.00	1705.2	1052.5	117.89	1.7000	2.908
41.00	1707.1	1054.5	117.97	1.6829	2.914
42.00	1709.1	1056.5	118.10	1.6667	2.921
43.00	1710.8	1058.2	118.20	1.6512	2.927
44.00	1712.5	1059.9	118.31	1.6364	2.933
45.00	1714.4	1061.8	118.40	1.6222	2.939
46.00	1715.8	1063.2	118.47	1.6087	2.944
47.00	1717.3	1064.7	118.57	1.5957	2.949
48.00	1718.9	1066.3	118.65	1.5833	2.955
49.00	1720.3	1067.6	118.72	1.5714	2.959
50.00	1721.9	1069.2	118.80	1.5600	2.965
51.00	1723.0	1070.4	118.87	1.5490	2.969
52.00	1724.4	1071.8	118.95	1.5385	2.973
53.00	1725.7	1073.1	119.00	1.5283	2.978
54.00	1727.0	1074.4	119.07	1.5185	2.982
55.00	1728.1	1075.5	119.14	1.5091	2.986
56.00	1729.3	1076.7	119.20	1.5000	2.991
57.00	1730.4	1077.8	119.24	1.4912	2.994
58.00	1731.4	1078.8	119.31	1.4828	2.998
59.00	1732.4	1079.8	119.35	1.4746	3.001
60.00	1733.4	1080.8	119.41	1.4667	3.005
***** End Shut-in 1					
***** Start Flow 2	0.00	691.9	0.0	119.44	
	1.00	699.4	7.5	119.43	
	2.00	714.0	22.1	119.40	
	3.00	728.8	36.9	119.38	
	4.00	743.6	51.7	119.36	
	5.00	757.4	65.5	119.36	
	6.00	770.8	78.9	119.36	
	7.00	783.7	91.8	119.37	
	8.00	796.5	104.6	119.38	
	9.00	808.2	116.3	119.41	
	10.00	820.0	128.1	119.44	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #9684 American Warrior DST#1 Nelson 1-33

DATE: 02/04/97

TIME: 13:47:23

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	32.00	1694.2	684.3	123.36	2.7812	2.870
	33.00	1696.1	686.3	123.38	2.7273	2.877
	34.00	1698.0	688.2	123.41	2.6765	2.883
	35.00	1699.7	689.9	123.43	2.6286	2.889
	36.00	1701.5	691.6	123.45	2.5833	2.895
	37.00	1703.1	693.2	123.47	2.5405	2.900
	38.00	1704.6	694.8	123.49	2.5000	2.906
	39.00	1706.4	696.6	123.50	2.4615	2.912
	40.00	1707.8	698.0	123.50	2.4250	2.917
	41.00	1709.3	699.5	123.54	2.3902	2.922
	42.00	1710.8	701.0	123.55	2.3571	2.927
	43.00	1712.0	702.2	123.57	2.3256	2.931
	44.00	1713.3	703.5	123.56	2.2955	2.935
	45.00	1714.6	704.8	123.57	2.2667	2.940
	46.00	1715.7	705.9	123.60	2.2391	2.944
	47.00	1717.0	707.2	123.59	2.2128	2.948
	48.00	1718.2	708.4	123.60	2.1875	2.952
	49.00	1719.3	709.5	123.60	2.1633	2.956
	50.00	1720.3	710.5	123.61	2.1400	2.960
	51.00	1721.4	711.6	123.61	2.1176	2.963
	52.00	1722.4	712.6	123.63	2.0962	2.967
	53.00	1723.4	713.6	123.62	2.0755	2.970
	54.00	1724.5	714.7	123.60	2.0556	2.974
	55.00	1725.3	715.5	123.61	2.0364	2.977
	56.00	1726.4	716.6	123.61	2.0179	2.980
	57.00	1727.3	717.5	123.63	2.0000	2.984
	58.00	1728.1	718.3	123.59	1.9828	2.986
	59.00	1728.9	719.1	123.60	1.9661	2.989
	60.00	1729.8	720.0	123.61	1.9500	2.992
***** End Shut-in 2	61.00	1730.7	720.9	123.62	1.9344	2.995
***** Final Hydro.	308.00	2239.2	0.0	123.61		

 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
	32.00	1694.2	684.3	123.36	2.7812	2.870
	33.00	1696.1	686.3	123.38	2.7273	2.877
	34.00	1698.0	688.2	123.41	2.6765	2.883
	35.00	1699.7	689.9	123.43	2.6286	2.889
	36.00	1701.5	691.6	123.45	2.5833	2.895
	37.00	1703.1	693.2	123.47	2.5405	2.900
	38.00	1704.6	694.8	123.49	2.5000	2.906
	39.00	1706.4	696.6	123.50	2.4615	2.912
	40.00	1707.8	698.0	123.50	2.4250	2.917
	41.00	1709.3	699.5	123.54	2.3902	2.922
	42.00	1710.8	701.0	123.55	2.3571	2.927
	43.00	1712.0	702.2	123.57	2.3256	2.931
	44.00	1713.3	703.5	123.56	2.2955	2.935
	45.00	1714.6	704.8	123.57	2.2667	2.940
	46.00	1715.7	705.9	123.60	2.2391	2.944
	47.00	1717.0	707.2	123.59	2.2128	2.948
	48.00	1718.2	708.4	123.60	2.1875	2.952
	49.00	1719.3	709.5	123.60	2.1633	2.956
	50.00	1720.3	710.5	123.61	2.1400	2.960
	51.00	1721.4	711.6	123.61	2.1176	2.963
	52.00	1722.4	712.6	123.63	2.0962	2.967
	53.00	1723.4	713.6	123.62	2.0755	2.970
	54.00	1724.5	714.7	123.60	2.0556	2.974
	55.00	1725.3	715.5	123.61	2.0364	2.977
	56.00	1726.4	716.6	123.61	2.0179	2.980
	57.00	1727.3	717.5	123.63	2.0000	2.984
	58.00	1728.1	718.3	123.59	1.9828	2.986
	59.00	1728.9	719.1	123.60	1.9661	2.989
	60.00	1729.8	720.0	123.61	1.9500	2.992
***** End Shut-in 2	61.00	1730.7	720.9	123.62	1.9344	2.995
***** Final Hydro.	308.00	2239.2	0.0	123.61		

TEST HISTORY

#9684 American Warrior DST#1 Nelson 1-33

Flag Points
t(Min.) PK PSig)

A:	0.00	2303.22
B:	0.00	191.51
C:	28.00	652.61
D:	60.00	1733.44
E:	0.00	691.89
F:	29.00	1009.81
G:	61.00	1730.67
Q:	0.00	2239.19

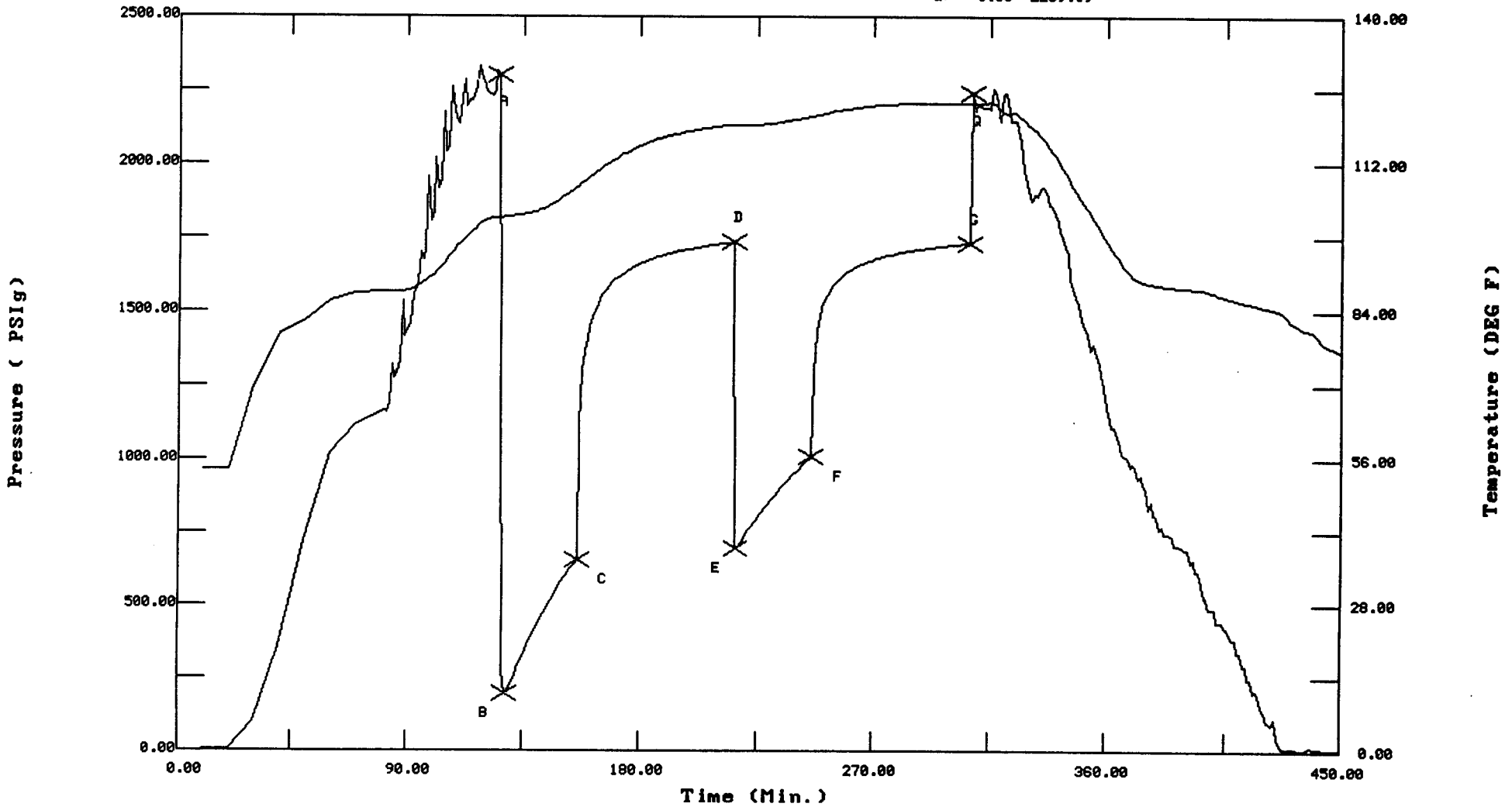
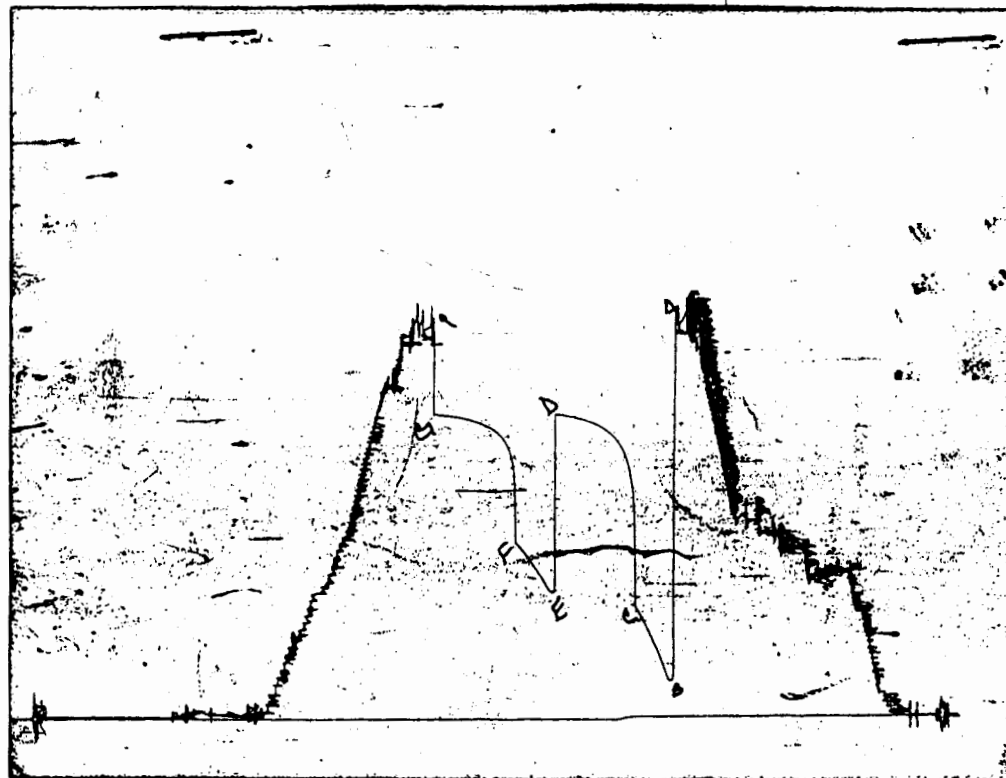


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior Inc
 WELL NAME: Nielson #1-33
 LOCATION : 33-32-19-Comanche-Co-Ks
 INTERVAL : 4976.00 To 5014.00 ft

DATE 2-6-97
 KB 1930.00 ft TICKET NO: 9766 DST #2
 GR 1917.00 ft FORMATION: Pawnee
 TD 5014.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2357			PF Fr. 2415 to 2445 hr
SI 60 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 2445 to 0145 hr
SF 60 Clock(hrs)	12	12	Elec			SF Fr. 0145 to 0245 hr
FS 60 Depth(ft)	5011.0	5011.0	4979.0	0.0	0.0	FS Fr. 0245 to 0345 hr

	Field	1	2	3	4	
A. Init Hydro	2502.0	2421.0	2447.0	0.0	0.0	T STARTED 2224 hr
B. First Flow	68.0	83.0	89.0	0.0	0.0	T ON BOTM 2410 hr
B1. Final Flow	68.0	68.0	77.0	0.0	0.0	T OPEN 2415 hr
C. In Shut-in	1866.0	1864.0	1890.0	0.0	0.0	T PULLED 0345 hr
D. Init Flow	78.0	87.0	82.0	0.0	0.0	T OUT 0550 hr
E. Final Flow	78.0	73.0	82.0	0.0	0.0	
F. Fl Shut-in	1846.0	1848.0	1876.0	0.0	0.0	
G. Final Hydro	2421.0	2371.0	2368.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 125.00 ft of 125.00 ft in DC and 0.00 ft in DP
 125.00 ft of Gassy mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Strong blow, bottom of bucket in 20sec
 Gas to surface in 5 mins

Initial Shut In:

Final Flow:
 Strong blow, bottom of bucket when
 tool opened, Gas sample taken

Final Shut In:

SAMPLES:

SENT TO:

TOOL DATA-----
 Tool Wt. 1500.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 76000.00 lbs
 Initial Str Wt 85000.00 lbs
 Unseated Str Wt 76000.00 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 243.00 ft
 D.P. Length 4721.00 ft

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 47.00 S/L
 W.L. 12.80 in³
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 109.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. Alan Downing
 Contr. Duke
 Rig # 7
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Nielson #1-33

LOCATION : 33-32-19-Comanche-Co-Ks

TICKET No. 9766 D.S.T. No. 2 DATE 2-6-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 66

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 66

D.C. ABOVE TOOLS.Stands4 Single Total 243

D.P. ABOVE TOOLS.Stands76 Single 1 Total 4721

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5030

TOTAL DEPTH 5014

TOTAL DRILL PIPE ABOVE K.B. 16

REMARKS:

P.O. SUB	
C.O. SUB	4948
S.I. TOOL Sterling	4954
HMV Sterling	4959
JARS Sterling	4964
SAFETY JOINT Bowen	4967
PACKER Top	4971
PACKER Bottom	4976
DEPTH 4976	
STUBB 1'	4977
ANCHOR 2' Perfs	4979
Alpine Rec @ 4979	
5' Perfs	4984
5' Perfs	4989
5' Perfs	4994
T.C.	
DEPTH	
5' Perfs	4999
5' Perfs	5004
5' Perfs	5009
Ak-1 Rec @ 5011	
BULLNOSE 5' Bullplug	5014
T.D.	

GAS RECOVERY

COMPANY: American Warrior Inc

DATE: 2-6-97

WELL NAME: Nielson #1-33

KB Elev: 1930.00 ft TICKET #9766 DST #2

WELL LOCATION: 33-32-19-Comanche-Co-Ks

GR Elev: 1917.00 ft FORMATION: Pawnee

INTERVAL Fr.: 4976.00 To 5014.00 T.D.: 5014.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	0	8	197000.0
10	1.50	0	8	197000.0
15	1.50	0	10	220000.0
20	1.50	0	10	220000.0
25	1.50	0	10	220000.0
30	1.50	0	10	220000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	0	12	241000.0
10	1.50	0	12	241000.0
15	1.50	0	12	241000.0
20	1.50	0	12	241000.0
25	1.50	0	12	241000.0
30	1.50	0	12	241000.0
35	1.50	0	12	241000.0
40	1.50	0	12	241000.0
45	1.50	0	12	241000.0
50	1.50	0	12	241000.0
55	1.50	0	12	241000.0
60	1.50	0	12	241000.0

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9766 DST# 2 Nielson #1-33 American Warrior

DATE: 02/05/97 TIME: 22:25:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	110.00	2447.2	0.0	105.91		
***** Start Flow 1	0.00	88.9	0.0	107.18		
	1.00	74.5	-14.4	107.73		
	2.00	69.6	-19.3	108.27		
	3.00	70.7	-18.2	108.75		
	4.00	71.0	-17.9	109.16		
	5.00	70.2	-18.6	109.48		
	6.00	72.0	-16.9	109.74		
	7.00	71.5	-17.4	109.92		
	8.00	70.5	-18.4	110.03		
	9.00	73.6	-15.3	110.10		
	10.00	72.0	-16.9	110.13		
	11.00	72.1	-16.8	110.12		
	12.00	71.9	-17.0	110.09		
	13.00	72.3	-16.6	110.04		
	14.00	75.1	-13.8	109.97		
	15.00	71.4	-17.5	109.88		
	16.00	73.8	-15.0	109.76		
	17.00	74.3	-14.6	109.63		
	18.00	73.4	-15.4	109.48		
	19.00	73.8	-15.0	109.32		
	20.00	73.3	-15.6	109.15		
	21.00	78.7	-10.2	108.98		
	22.00	79.6	-9.3	108.81		
	23.00	76.8	-12.1	108.64		
	24.00	74.7	-14.2	108.46		
	25.00	75.3	-13.6	108.28		
	26.00	74.9	-13.9	108.10		
	27.00	75.9	-12.9	107.93		
	28.00	75.7	-13.2	107.75		
***** End Flow 1	29.00	77.0	-11.8	107.57		
***** Start Shutin 1	0.00	77.0	0.0	107.57	0.0000	0.006
	1.00	308.2	231.1	107.39	30.0000	0.095
	2.00	918.5	841.5	107.33	15.5000	0.844
	3.00	1290.8	1213.8	107.87	10.6667	1.666
	4.00	1507.8	1430.7	109.23	8.2500	2.273
	5.00	1630.6	1553.6	111.04	6.8000	2.659
	6.00	1706.2	1629.2	112.84	5.8333	2.911
	7.00	1747.8	1670.8	114.37	5.1429	3.055
	8.00	1776.3	1699.3	115.54	4.6250	3.155
	9.00	1794.3	1717.2	116.36	4.2222	3.219
	10.00	1806.5	1729.4	116.89	3.9000	3.263
	11.00	1816.7	1739.7	117.21	3.6364	3.300
	12.00	1825.6	1748.6	117.38	3.4167	3.333
	13.00	1833.1	1756.1	117.45	3.2308	3.360
	14.00	1839.9	1762.9	117.47	3.0714	3.385
	15.00	1845.6	1768.5	117.48	2.9333	3.406
	16.00	1850.5	1773.5	117.48	2.8125	3.424
	17.00	1854.6	1777.6	117.39	2.7059	3.440
	18.00	1858.2	1781.1	117.27	2.6111	3.453
	19.00	1861.0	1784.0	117.12	2.5263	3.463

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9766 DST# 2 Nielson #1-33 American Warrior

DATE: 02/05/97

TIME: 22:25:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
20.00	1863.8	1786.7	116.96	2.4500	3.474
21.00	1866.0	1789.0	116.79	2.3810	3.482
22.00	1868.1	1791.1	116.62	2.3182	3.490
23.00	1869.9	1792.9	116.45	2.2609	3.497
24.00	1871.5	1794.5	116.31	2.2083	3.503
25.00	1873.0	1796.0	116.20	2.1600	3.508
26.00	1874.4	1797.3	116.20	2.1154	3.513
27.00	1875.5	1798.5	116.01	2.0741	3.518
28.00	1876.5	1799.5	115.88	2.0357	3.521
29.00	1877.5	1800.4	115.66	2.0000	3.525
30.00	1878.5	1801.5	115.83	1.9667	3.529
31.00	1879.4	1802.4	115.80	1.9355	3.532
32.00	1880.1	1803.0	115.77	1.9062	3.535
33.00	1880.9	1803.9	115.75	1.8788	3.538
34.00	1881.6	1804.5	115.73	1.8529	3.540
35.00	1882.2	1805.1	115.72	1.8286	3.543
36.00	1882.7	1805.7	115.70	1.8056	3.545
37.00	1883.2	1806.2	115.69	1.7838	3.547
38.00	1883.8	1806.8	115.69	1.7632	3.549
39.00	1884.3	1807.2	115.69	1.7436	3.550
40.00	1884.7	1807.6	115.68	1.7250	3.552
41.00	1885.2	1808.1	115.68	1.7073	3.554
42.00	1885.6	1808.6	115.69	1.6905	3.555
43.00	1886.0	1809.0	115.69	1.6744	3.557
44.00	1886.4	1809.3	115.70	1.6591	3.558
45.00	1886.7	1809.7	115.71	1.6444	3.560
46.00	1887.1	1810.1	115.71	1.6304	3.561
47.00	1887.4	1810.3	115.73	1.6170	3.562
48.00	1887.7	1810.7	115.74	1.6042	3.563
49.00	1887.9	1810.9	115.75	1.5918	3.564
50.00	1888.2	1811.2	115.76	1.5800	3.565
51.00	1888.5	1811.5	115.78	1.5686	3.567
52.00	1888.8	1811.7	115.79	1.5577	3.568
53.00	1889.0	1811.9	115.81	1.5472	3.568
54.00	1889.2	1812.2	115.82	1.5370	3.569
55.00	1889.4	1812.3	115.84	1.5273	3.570
56.00	1889.6	1812.6	115.85	1.5179	3.571
57.00	1889.9	1812.8	115.86	1.5088	3.572
58.00	1890.0	1813.0	115.90	1.5000	3.572
59.00	1890.2	1813.2	115.92	1.4915	3.573
60.00	1890.4	1813.3	115.92	1.4833	3.574
***** End Shut-in 1					
***** Start Flow 2					
0.00	82.7	0.0	114.97		
1.00	77.2	-5.5	114.07		
2.00	74.3	-8.4	113.22		
3.00	78.2	-4.4	112.48		
4.00	76.3	-6.4	111.83		
5.00	75.0	-7.6	111.27		
6.00	78.5	-4.2	110.77		
7.00	74.9	-7.7	110.33		
8.00	74.4	-8.3	109.93		
9.00	74.2	-8.5	109.57		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9766 DST# 2 Nielson #1-33 American Warrior

DATE: 02/05/97 TIME: 22:25:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.00	74.1	-8.6	109.24		
11.00	74.1	-8.6	108.93		
12.00	75.1	-7.6	108.64		
13.00	76.1	-6.5	108.36		
14.00	75.4	-7.3	108.08		
15.00	75.2	-7.5	107.82		
16.00	75.1	-7.6	107.57		
17.00	77.0	-5.7	107.33		
18.00	75.6	-7.0	107.11		
19.00	75.1	-7.6	106.88		
20.00	74.6	-8.1	106.65		
21.00	76.2	-6.5	106.44		
22.00	77.0	-5.6	106.22		
23.00	76.1	-6.5	106.01		
24.00	77.1	-5.5	105.79		
25.00	77.5	-5.1	105.59		
26.00	77.5	-5.1	105.38		
27.00	77.4	-5.2	105.18		
28.00	78.0	-4.7	104.98		
29.00	78.4	-4.3	104.79		
30.00	78.3	-4.4	104.59		
31.00	78.3	-4.4	104.41		
32.00	79.7	-2.9	104.23		
33.00	79.1	-3.6	104.04		
34.00	78.5	-4.2	103.87		
35.00	78.0	-4.6	103.70		
36.00	78.8	-3.9	103.53		
37.00	79.6	-3.1	103.36		
38.00	81.0	-1.7	103.20		
39.00	78.8	-3.9	103.04		
40.00	79.8	-2.9	102.87		
41.00	80.2	-2.4	102.72		
42.00	79.1	-3.6	102.55		
43.00	82.1	-0.6	102.40		
44.00	80.1	-2.5	102.25		
45.00	80.4	-2.3	102.09		
46.00	79.5	-3.2	101.95		
47.00	80.1	-2.5	101.80		
48.00	81.0	-1.7	101.66		
49.00	81.2	-1.4	101.52		
50.00	81.0	-1.7	101.38		
51.00	81.4	-1.3	101.25		
52.00	81.1	-1.5	101.11		
53.00	82.0	-0.7	100.98		
54.00	81.9	-0.8	100.85		
55.00	82.6	-0.1	100.72		
56.00	82.0	-0.7	100.60		
57.00	81.7	-1.0	100.47		
58.00	81.9	-0.8	100.35		
***** End Flow 2					
***** Start Shutin 2	0.00	81.9	0.0	100.35	0.0000
	1.00	580.1	498.2	100.25	88.0000
					0.007
					0.337

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9766 DST# 2 Nielson #1-33 American Warrior
 DATE: 02/05/97 TIME: 22:25:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
2.00	1114.2	1032.3	100.52	44.5000	1.241
3.00	1402.0	1320.1	101.75	30.0000	1.966
4.00	1559.3	1477.4	103.49	22.7500	2.431
5.00	1649.8	1567.9	105.18	18.4000	2.722
6.00	1702.0	1620.1	106.64	15.5000	2.897
7.00	1733.4	1651.5	107.67	13.4286	3.005
8.00	1753.6	1671.7	108.31	11.8750	3.075
9.00	1767.7	1685.8	108.59	10.6667	3.125
10.00	1778.0	1696.1	108.67	9.7000	3.161
11.00	1786.2	1704.3	108.62	8.9091	3.191
12.00	1793.6	1711.7	108.49	8.2500	3.217
13.00	1800.1	1718.2	108.32	7.6923	3.240
14.00	1806.0	1724.0	108.15	7.2143	3.261
15.00	1811.2	1729.3	108.00	6.8000	3.281
16.00	1815.9	1733.9	107.82	6.4375	3.297
17.00	1820.1	1738.1	107.69	6.1176	3.313
18.00	1823.9	1742.0	107.59	5.8333	3.327
19.00	1827.5	1745.6	107.52	5.5789	3.340
20.00	1830.9	1749.0	107.48	5.3500	3.352
21.00	1834.1	1752.2	107.44	5.1429	3.364
22.00	1836.8	1754.8	107.42	4.9545	3.374
23.00	1839.2	1757.3	107.41	4.7826	3.383
24.00	1841.6	1759.7	107.40	4.6250	3.392
25.00	1843.7	1761.8	107.40	4.4800	3.399
26.00	1845.7	1763.8	107.42	4.3462	3.407
27.00	1847.6	1765.7	107.44	4.2222	3.414
28.00	1849.3	1767.4	107.45	4.1071	3.420
29.00	1851.0	1769.1	107.47	4.0000	3.426
30.00	1852.5	1770.6	107.50	3.9000	3.432
31.00	1854.0	1772.1	107.52	3.8065	3.437
32.00	1855.3	1773.4	107.55	3.7188	3.442
33.00	1856.5	1774.6	107.58	3.6364	3.446
34.00	1857.7	1775.8	107.61	3.5588	3.451
35.00	1858.8	1776.9	107.65	3.4857	3.455
36.00	1859.9	1778.0	107.69	3.4167	3.459
37.00	1861.0	1779.1	107.70	3.3514	3.463
38.00	1861.9	1780.0	107.75	3.2895	3.467
39.00	1862.9	1780.9	107.80	3.2308	3.470
40.00	1863.7	1781.8	107.84	3.1750	3.473
41.00	1864.6	1782.7	107.88	3.1220	3.477
42.00	1865.5	1783.6	107.94	3.0714	3.480
43.00	1866.1	1784.2	107.96	3.0233	3.482
44.00	1866.9	1785.0	108.03	2.9773	3.485
45.00	1867.6	1785.7	108.08	2.9333	3.488
46.00	1868.4	1786.5	108.14	2.8913	3.491
47.00	1869.0	1787.1	108.20	2.8511	3.493
48.00	1869.7	1787.7	108.26	2.8125	3.496
49.00	1870.2	1788.3	108.32	2.7755	3.498
50.00	1870.8	1788.9	108.39	2.7400	3.500
51.00	1871.3	1789.4	108.45	2.7059	3.502
52.00	1872.0	1790.1	108.51	2.6731	3.504

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9766 DST# 2 Nielson #1-33 American Warrior

DATE: 02/05/97

TIME: 22:25:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	53.00	1872.4	1790.5	108.57	2.6415	3.506
	54.00	1872.9	1791.0	108.64	2.6111	3.508
	55.00	1873.4	1791.5	108.71	2.5818	3.510
	56.00	1873.9	1792.0	108.78	2.5536	3.512
	57.00	1874.4	1792.5	108.86	2.5263	3.514
	58.00	1874.9	1793.0	108.92	2.5000	3.515
	59.00	1875.4	1793.5	108.99	2.4746	3.517
***** End Shut-in 2	60.00	1875.7	1793.8	109.07	2.4500	3.518
***** Final Hydro.	323.00	2367.8	0.0	109.39		

TEST HISTORY

Tk# 9766 DST# 2 Nielson #1-33 American Warrior

Flag Points
t(Min.) P(PSig)

A:	0.00	2447.24
B:	0.00	88.87
C:	29.00	77.04
D:	60.00	1890.38
E:	0.00	82.66
F:	58.00	81.90
G:	60.00	1875.69
Q:	0.00	2367.76

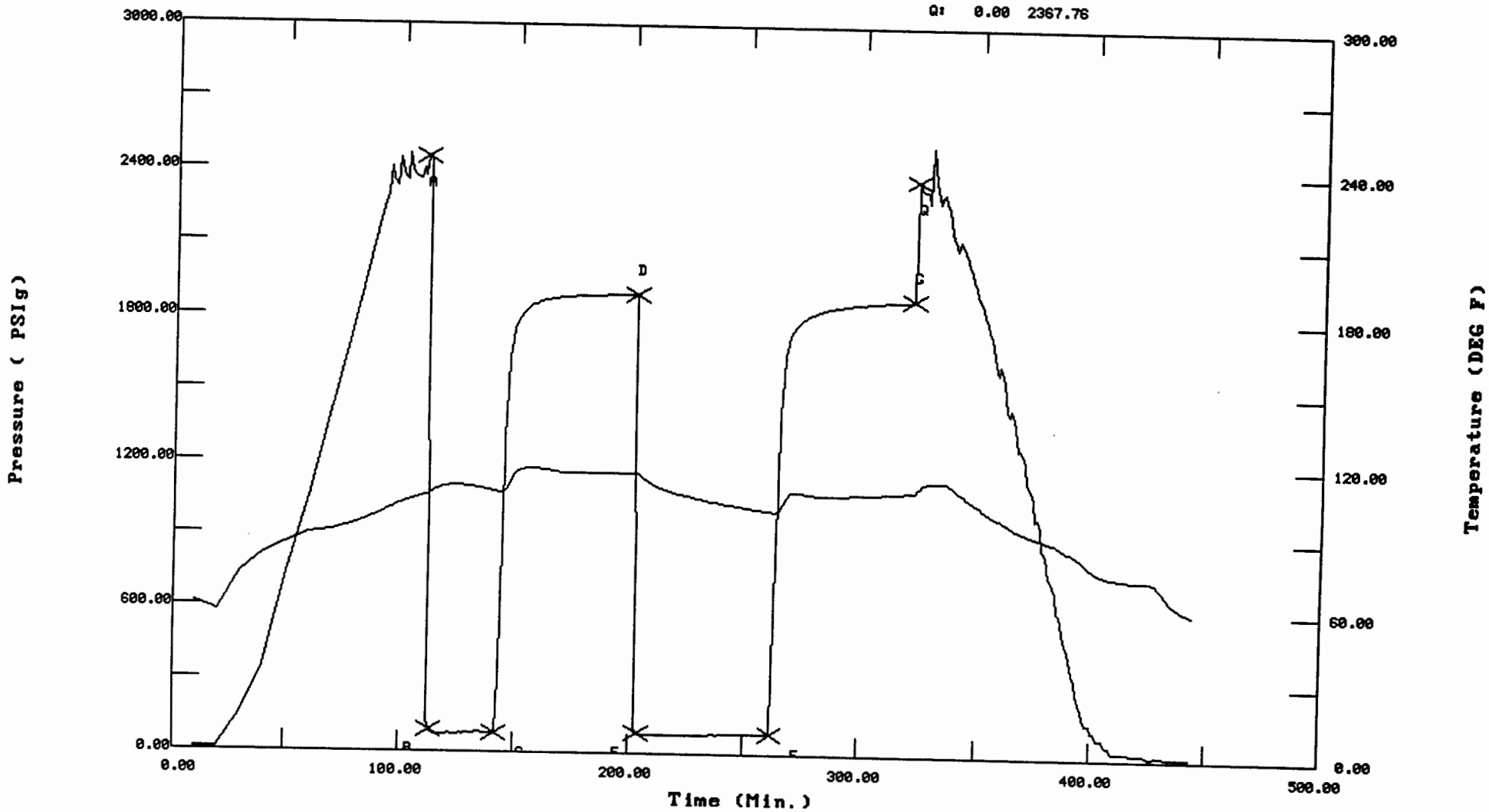
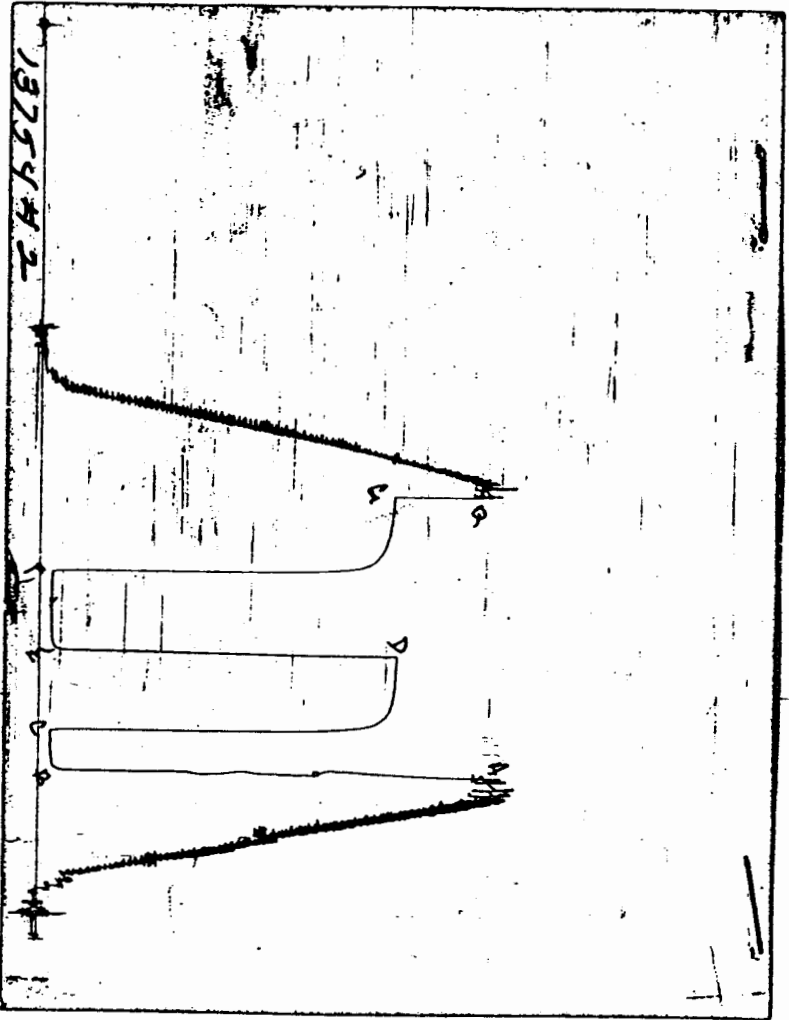


CHART PAGE



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