



Velocity Data Pty Ltd

WELL VELOCITY SURVEY

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CLIENT : PACIFIC OIL & GAS PTY LTD  
WELL IDENTIFICATION : BORROWDALE #2  
SURVEY DATE : 28-JUL-88  
SURVEY TIME : 06:50:00  
SURVEY UNITS : METRES  
AUTHORITY TO PROSPECT : EP-5

WELL LATITUDE : 015 07 24  
WELL LONGITUDE : 133 48 57

KELLY ELEVATION : 125.8  
GROUND ELEVATION : 124.3

WEATHER : FINE

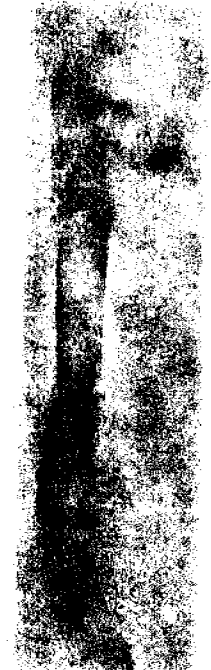
ENERGY SOURCE : AN-60

CLIENT REP : MR. G. WESTE  
OBSERVER : J. LARSEN  
SHOOTER : W. JOHNSTONE

RIG IDENTIFICATION : ROCKDRILL - RIG #18  
CASING DEPTH : 72.0  
LOGGING UNIT : BPB INSTRUMENTS #V32

RECORDING INSTRUMENTS : VDL911/10  
SYSTEM DELAY TIME     & MSEC.

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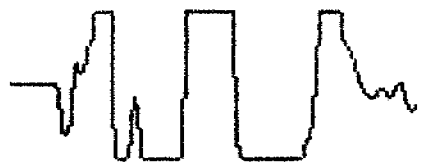
1000000

TRACE DISPLAY.

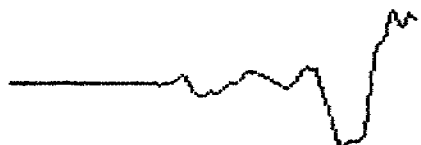
SHOT 1 Time 07:06:23 Level : 74.0 Shot location : A  
Shot depth : 0.6 Charge size : 0.25  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

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AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 9062mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 14mV

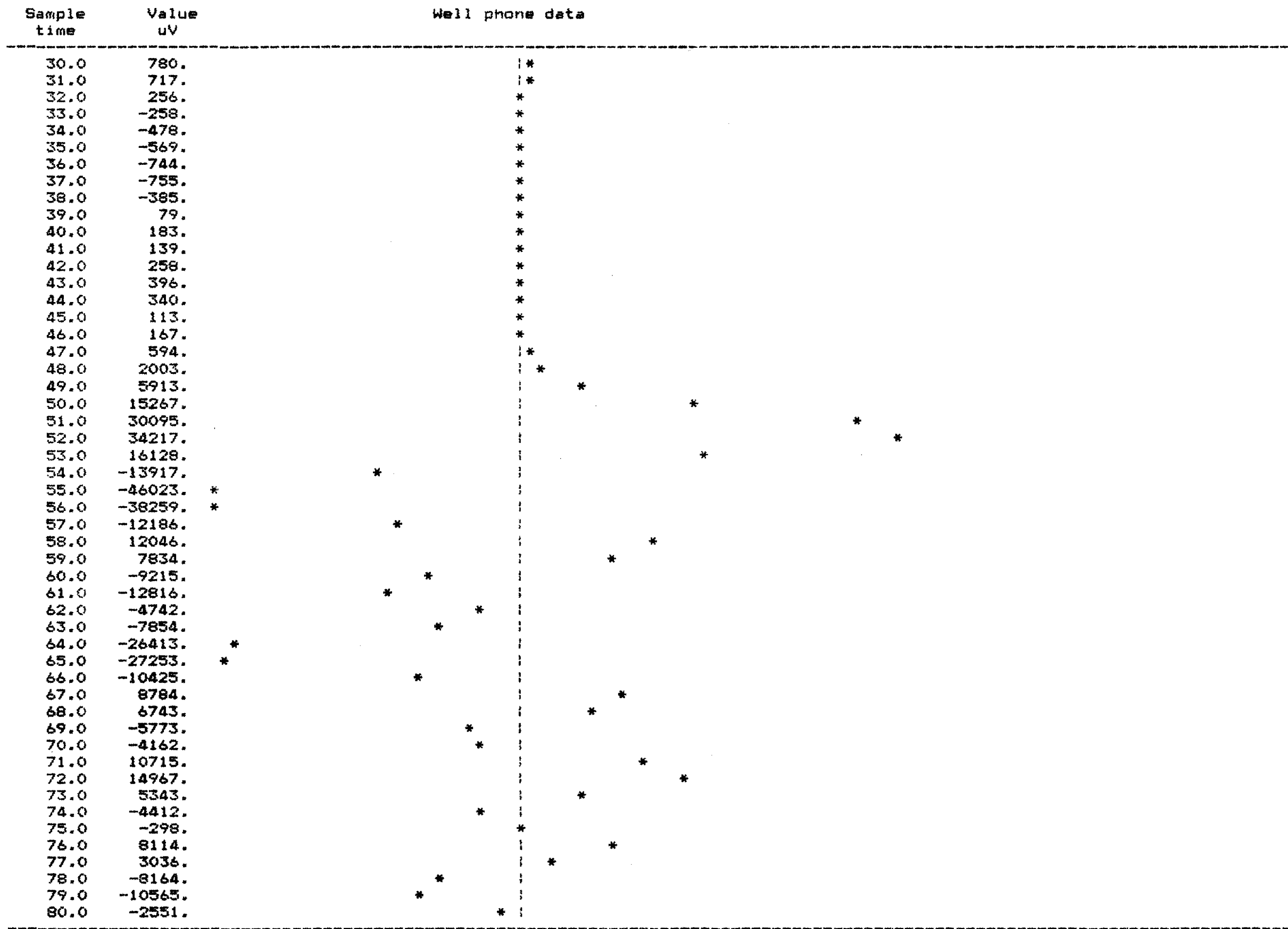


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 46.022

FIRST ARRIVAL PLOT - Shot 1 Level 74.0



TRACE DISPLAY.

SHOT 2 Time 07:08:36 Level : 74.0 Shot location : B  
Shot depth : 0.5 Charge size : 0.25  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

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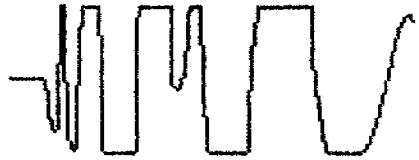
AUX. CHANNEL 1 Max. 10000mV



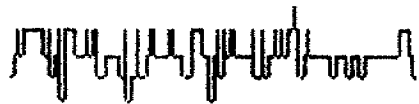
AUX. CHANNEL 2 Max. 10000mV



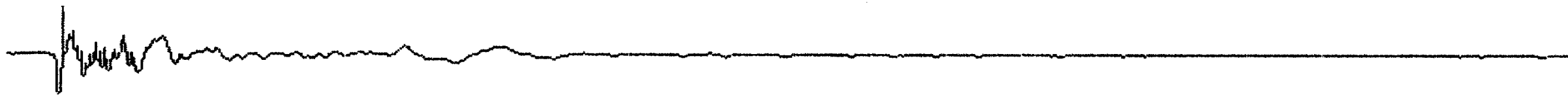
AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 14mV

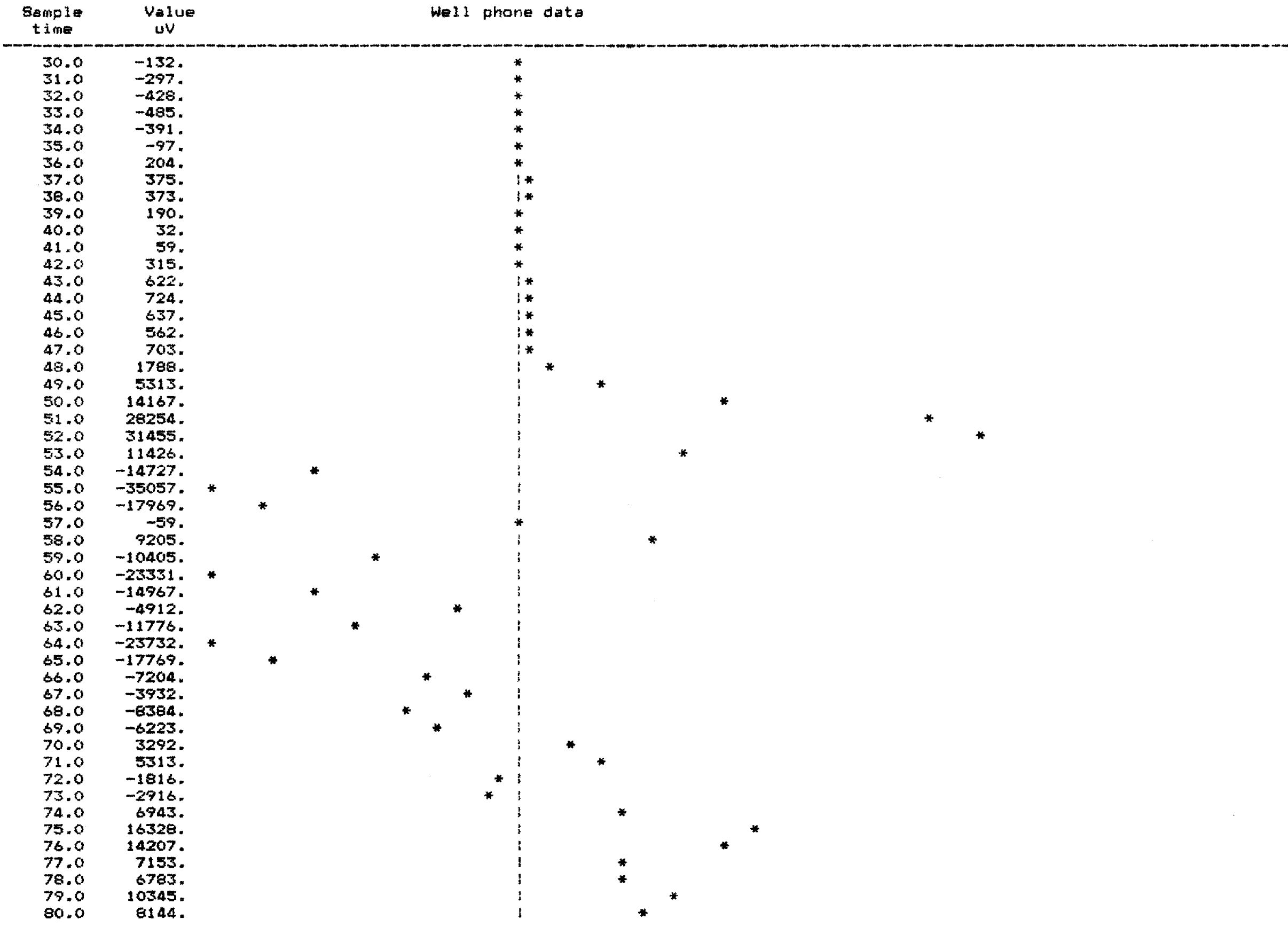


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 35.057

FIRST ARRIVAL PLOT - Shot 2 Level 74.0



TRACE DISPLAY.

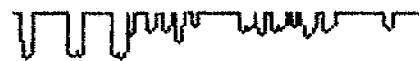
SHOT 3 Time 07:11:43 Level : 74.0 Shot location : D  
Shot depth : 0.6 Charge size : 0.25  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

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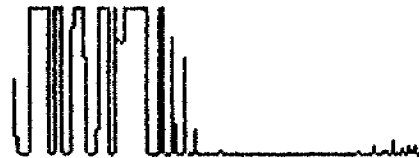
AUX. CHANNEL 1 Max. 6972mV



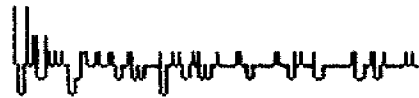
AUX. CHANNEL 2 Max. 6509mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 24mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 38.379

FIRST ARRIVAL PLOT - Shot 3 Level 74.0

Sample time	Value uV	Well phone data
30.0	26.	*
31.0	-44.	*
32.0	-174.	*
33.0	-318.	*
34.0	-510.	*
35.0	-560.	*
36.0	-253.	*
37.0	307.	*
38.0	682.	!*
39.0	623.	!*
40.0	348.	*
41.0	181.	*
42.0	234.	*
43.0	396.	*
44.0	629.	!*
45.0	772.	!*
46.0	749.	!*
47.0	806.	!*
48.0	1886.	*
49.0	5313.	*
50.0	14017.	*
51.0	30055.	*
52.0	39980.	*
53.0	31976.	*
54.0	10175.	*
55.0	-18329.	*
56.0	-19490.	*
57.0	-10665.	*
58.0	-11866.	*
59.0	-30775.	*
60.0	-29294.	*
61.0	-4262.	*
62.0	28014.	*
63.0	20250.	*
64.0	-587.	*
65.0	-24372.	*
66.0	-21691.	*
67.0	-22411.	*
68.0	-33857.	*
69.0	-38379.	*
70.0	-23812.	*
71.0	-6263.	*
72.0	1263.	*
73.0	-6983.	*
74.0	-11976.	*
75.0	589.	*
76.0	12626.	*
77.0	9225.	*
78.0	-5283.	*
79.0	-8874.	*
80.0	-53.	*

TRACE DISPLAY.

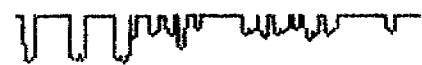
SHOT 4 Time 07:28:26 Level : 434.0 Shot location : D  
Shot depth : 0.6 Charge size : 1  
No. surface samples : 128 Down hole sample nos : 0 400 1006  
Sample rates : 500 1000 usec Delay : 0

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AUX. CHANNEL 1 Max. 6972mV



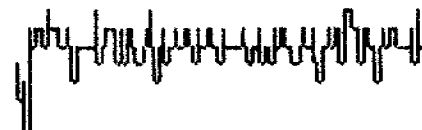
AUX. CHANNEL 2 Max. 6509mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 19mV



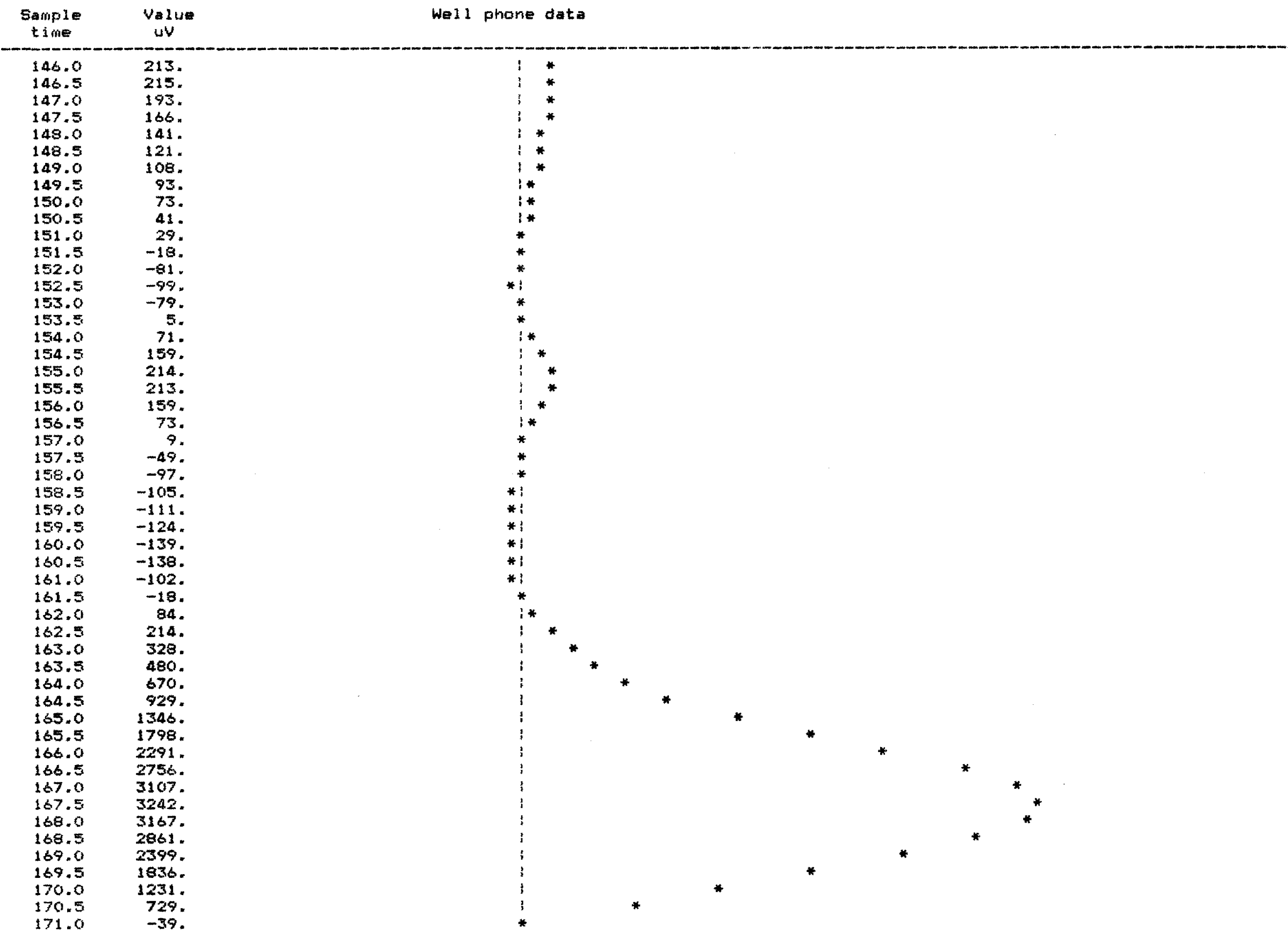
WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 4.192



FIRST ARRIVAL PLOT - Shot 4 Level 434.0



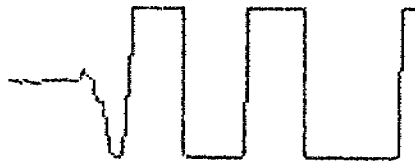
TRACE DISPLAY.

SHOT 5 Time 07:35:43 Level : 527.0 Shot location : D  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 5 400 1003  
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 644mV

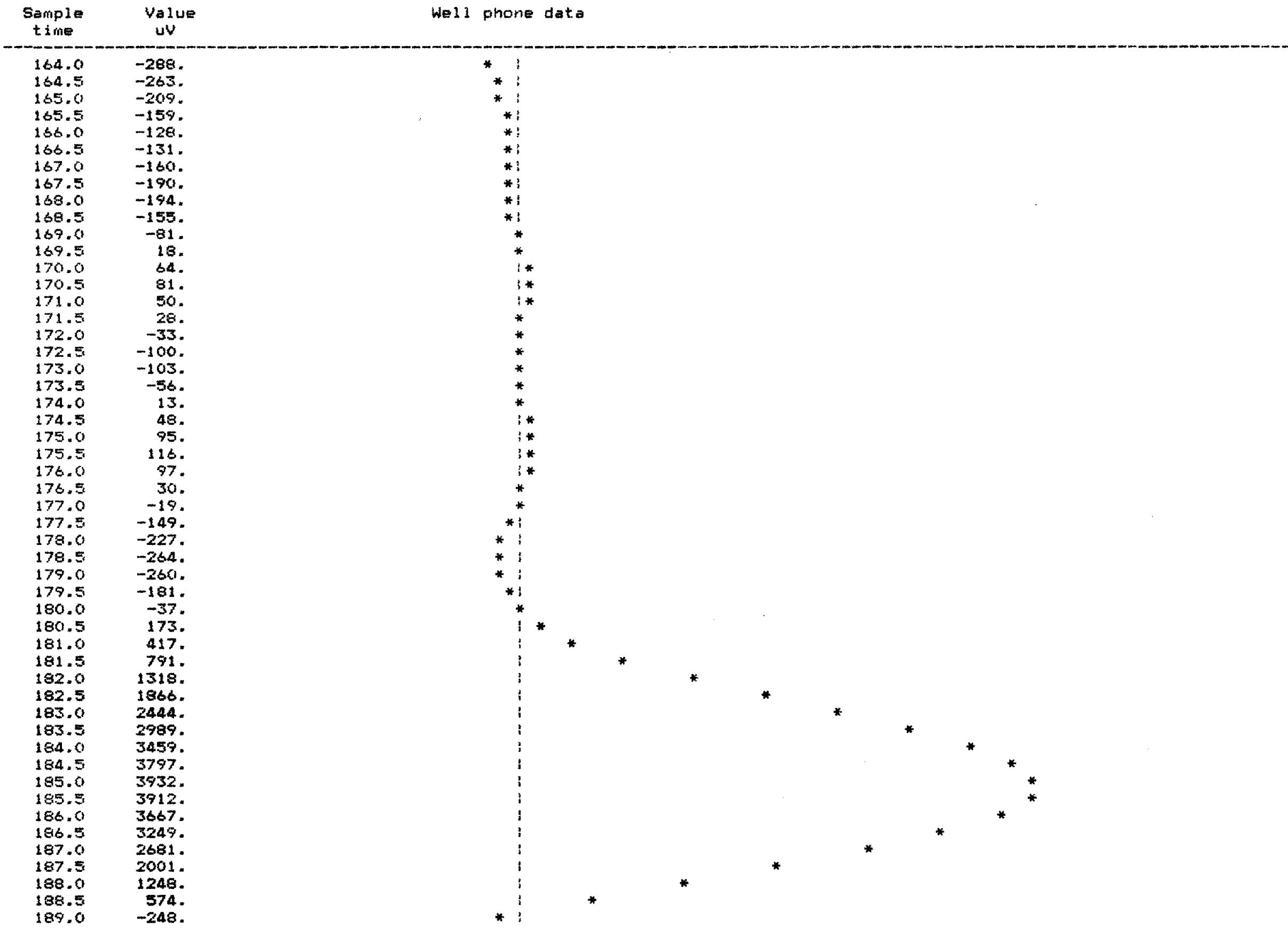


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 4.662

FIRST ARRIVAL PLOT - Shot 5 Level 527.0

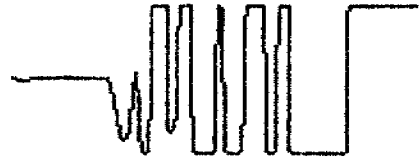


TRACE DISPLAY.

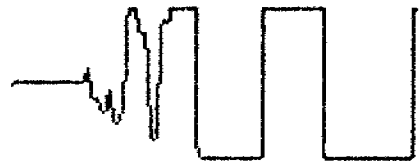
SHOT 7 Time 07:49:05 Level : 590.0 Shot location : C  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 29 400 979  
Sample rates : 500 1000 usec Delay : 0

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AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 1367mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 5.273

FIRST ARRIVAL PLOT - Shot 7 Level 590.0

Sample time	Value uV	Well phone data
176.0	-241.	*
176.5	-81.	*
177.0	26.	*
177.5	59.	*
178.0	48.	*
178.5	5.	*
179.0	-20.	*
179.5	-16.	*
180.0	19.	*
180.5	39.	*
181.0	28.	*
181.5	-30.	*
182.0	-130.	*
182.5	-206.	*
183.0	-241.	*
183.5	-249.	*
184.0	-227.	*
184.5	-211.	*
185.0	-208.	*
185.5	-209.	*
186.0	-193.	*
186.5	-147.	*
187.0	-78.	*
187.5	-5.	*
188.0	33.	*
188.5	33.	*
189.0	-7.	*
189.5	-42.	*
190.0	-72.	*
190.5	-56.	*
191.0	-9.	*
191.5	58.	*
192.0	172.	*
192.5	315.	*
193.0	568.	*
193.5	929.	*
194.0	1508.	*
194.5	2076.	*
195.0	2691.	*
195.5	3297.	*
196.0	3839.	*
196.5	4242.	*
197.0	4492.	*
197.5	4542.	*
198.0	4372.	*
198.5	3942.	*
199.0	3287.	*
199.5	2476.	*
200.0	1558.	*
200.5	715.	*
201.0	-318.	*

TRACE DISPLAY.

SHOT 8 Time 07:54:02 Level : 556.0 Shot location : C  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 16 400 992  
Sample rates : 500 1000 usec Delay : 0

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AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 1132mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 4.752

FIRST ARRIVAL PLOT - Shot 8 Level 556.0

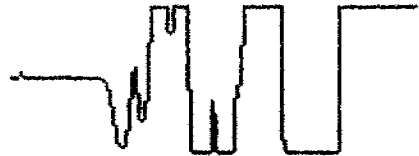
Sample time	Value uV	Well phone data
168.0	105.	*
168.5	103.	*
169.0	120.	*
169.5	149.	*
170.0	183.	*
170.5	215.	*
171.0	237.	*
171.5	241.	*
172.0	219.	*
172.5	176.	*
173.0	126.	*
173.5	86.	*
174.0	68.	*
174.5	79.	*
175.0	106.	*
175.5	134.	*
176.0	147.	*
176.5	139.	*
177.0	116.	*
177.5	90.	*
178.0	72.	*
178.5	67.	*
179.0	73.	*
179.5	84.	*
180.0	96.	*
180.5	105.	*
181.0	109.	*
181.5	111.	*
182.0	108.	*
182.5	103.	*
183.0	101.	*
183.5	106.	*
184.0	122.	*
184.5	150.	*
185.0	191.	*
185.5	256.	*
186.0	319.	*
186.5	443.	*
187.0	630.	*
187.5	892.	*
188.0	1336.	*
188.5	1798.	*
189.0	2319.	*
189.5	2869.	*
190.0	3387.	*
190.5	3817.	*
191.0	4032.	*
191.5	4112.	*
192.0	3972.	*
192.5	3614.	*
193.0	3114.	*

TRACE DISPLAY.

SHOT 9 Time 07:58:13 Level : 527.0 Shot location : C  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 5 400 1003  
Sample rates : 500 1000 usec Delay : 0

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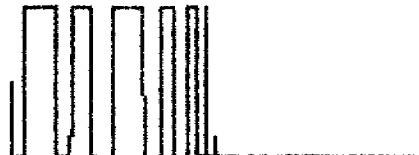
AUX. CHANNEL 1 Max. 10000mV



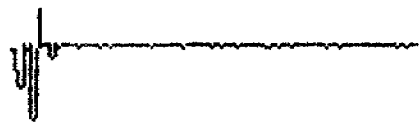
AUX. CHANNEL 2 Max. 10000mV



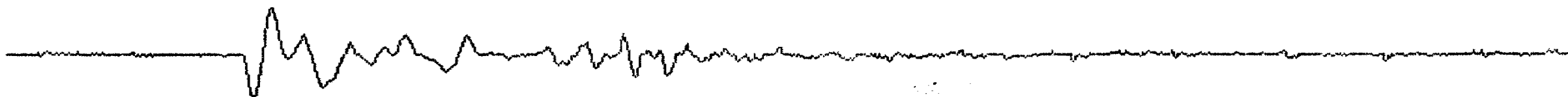
AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 644mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 5.012



FIRST ARRIVAL PLOT - Shot 9 Level 527.0

Sample time	Value uV	Well phone data
164.0	-49.	*
164.5	3.	*
165.0	20.	*
165.5	8.	*
166.0	-32.	*
166.5	-118.	*
167.0	-159.	*
167.5	-169.	*
168.0	-140.	*
168.5	-83.	*
169.0	4.	*
169.5	57.	*
170.0	74.	*
170.5	99.	*
171.0	113.	*
171.5	116.	*
172.0	100.	*
172.5	60.	*
173.0	30.	*
173.5	-49.	*
174.0	-146.	*
174.5	-180.	*
175.0	-176.	*
175.5	-141.	*
176.0	-95.	*
176.5	-36.	*
177.0	-15.	*
177.5	-16.	*
178.0	-29.	*
178.5	-47.	*
179.0	-58.	*
179.5	-49.	*
180.0	16.	*
180.5	90.	*
181.0	245.	*
181.5	525.	*
182.0	920.	*
182.5	1483.	*
183.0	2081.	*
183.5	2726.	*
184.0	3349.	*
184.5	3882.	*
185.0	4172.	*
185.5	4312.	*
186.0	4192.	*
186.5	3862.	*
187.0	3382.	*
187.5	2814.	*
188.0	2191.	*
188.5	1521.	*
189.0	922.	*

TRACE DISPLAY.

SHOT 10 Time 08:06:33 Level : 434.0 Shot location : C  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usac Delay : 0

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AUX. CHANNEL 1 Max. 6972mV



AUX. CHANNEL 2 Max. 6509mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 927mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 4.942

FIRST ARRIVAL PLOT - Shot 10 Level 434.0

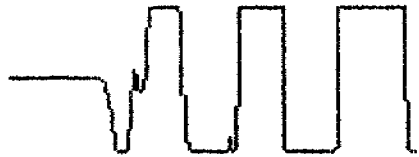
Sample time	Value uV	Well phone data
148.0	39.	*
148.5	36.	*
149.0	69.	*
149.5	81.	*
150.0	54.	*
150.5	59.	*
151.0	-10.	*
151.5	-56.	*
152.0	-119.	*
152.5	-52.	*
153.0	9.	*
153.5	39.	*
154.0	94.	*
154.5	123.	*
155.0	115.	*
155.5	71.	*
156.0	53.	*
156.5	17.	*
157.0	2.	*
157.5	28.	*
158.0	53.	*
158.5	112.	*
159.0	151.	*
159.5	149.	*
160.0	109.	*
160.5	49.	*
161.0	55.	*
161.5	25.	*
162.0	19.	*
162.5	27.	*
163.0	41.	*
163.5	57.	*
164.0	47.	*
164.5	109.	*
165.0	230.	*
165.5	397.	*
166.0	692.	*
166.5	1328.	*
167.0	1926.	*
167.5	2641.	*
168.0	3419.	*
168.5	4072.	*
169.0	4652.	*
169.5	4942.	*
170.0	4912.	*
170.5	4592.	*
171.0	3992.	*
171.5	3204.	*
172.0	2374.	*
172.5	1538.	*
173.0	715.	*

TRACE DISPLAY.

SHOT 11 Time 08:12:06 Level : 434.0 Shot location : C  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

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AUX. CHANNEL 1 Max. 10000mV



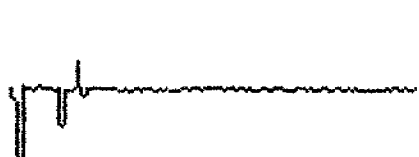
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 498mV



WELL PHONE CHANNEL - floating point amplifier

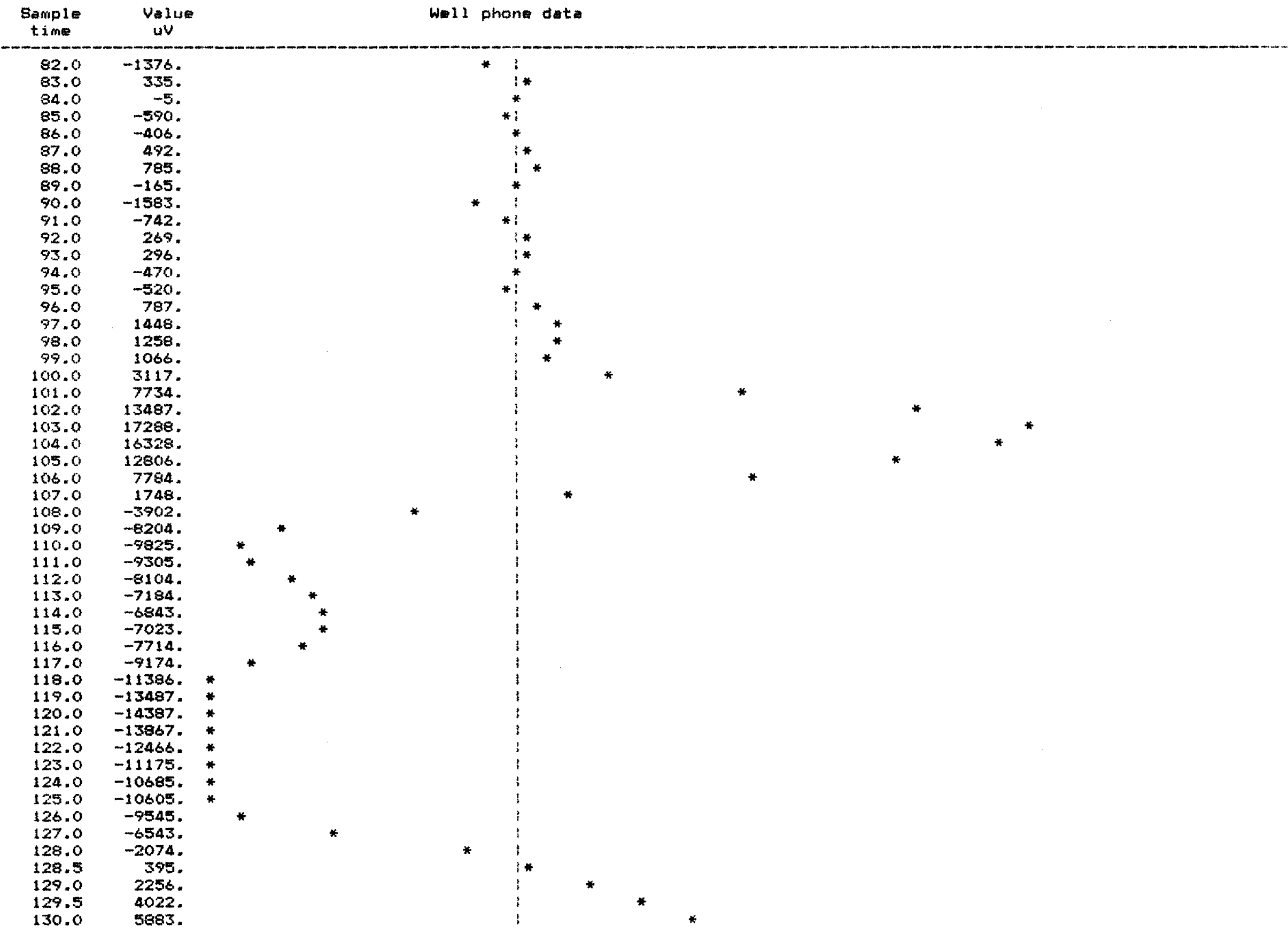


Data maximum (mV) : down hole channel - 4.552

FIRST ARRIVAL PLOT - Shot 11 Level 434.0

Sample time	Value uV	Well phone data
148.0	23.	*
148.5	80.	!*
149.0	62.	!*
149.5	82.	!*
150.0	79.	!*
150.5	54.	!*
151.0	80.	!*
151.5	80.	!*
152.0	62.	!*
152.5	116.	!*
153.0	176.	!*
153.5	204.	!*
154.0	181.	!*
154.5	101.	!*
155.0	57.	!*
155.5	-56.	*
156.0	-56.	*
156.5	-56.	*
157.0	-56.	*
157.5	-56.	*
158.0	-56.	*
158.5	-22.	*
159.0	46.	!*
159.5	53.	!*
160.0	78.	!*
160.5	75.	!*
161.0	41.	*
161.5	56.	!*
162.0	-2.	*
162.5	-27.	*
163.0	-25.	*
163.5	21.	*
164.0	67.	!*
164.5	200.	!*
165.0	338.	!*
165.5	545.	!*
166.0	609.	!*
166.5	1408.	!*
167.0	1823.	!*
167.5	2306.	!*
168.0	2846.	!*
168.5	3382.	!*
169.0	3842.	!*
169.5	4242.	!*
170.0	4502.	!*
170.5	4552.	!*
171.0	4372.	!*
171.5	3922.	!*
172.0	3199.	!*
172.5	2309.	!*
173.0	1296.	!*

FIRST ARRIVAL PLOT - Shot 14 Level 228.0



TRACE DISPLAY.

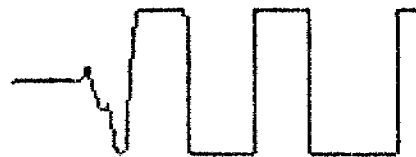
SHOT 15 Time 08:46:56 Level : 147.0 Shot location : D  
Shot depth : 0.6 Charge size : 2.5  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

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AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 625mV



WELL PHONE CHANNEL - floating point amplifier



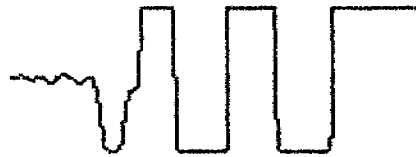
Data maximum (mV) : down hole channel - 48.344

TRACE DISPLAY.

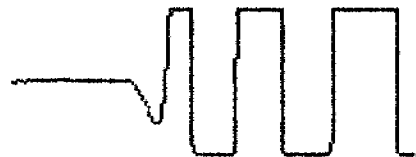
SHOT 14 Time 08:35:47 Level : 228.0 Shot location : C  
Shot depth : 0.6 Charge size : 2  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

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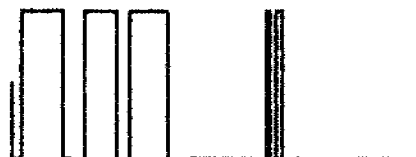
AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



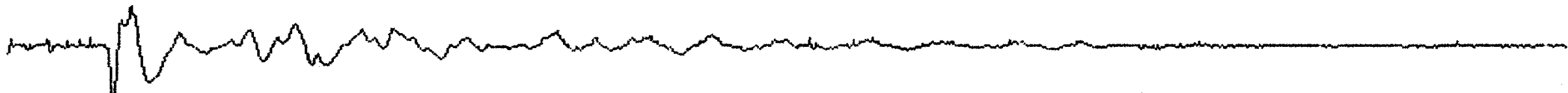
AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 2641mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 17.288



FIRST ARRIVAL PLOT - Shot 15 Level 147.0

Sample time	Value uV	Well phone data
54.0	11.	*
55.0	24.	*
56.0	-55.	*
57.0	-202.	*
58.0	-158.	*
59.0	38.	*
60.0	108.	*
61.0	59.	*
62.0	62.	*
63.0	189.	*
64.0	268.	*
65.0	273.	*
66.0	180.	*
67.0	-24.	*
68.0	-250.	*
69.0	-151.	*
70.0	202.	*
71.0	478.	*
72.0	1398.	*
73.0	4782.	*
74.0	13977.	*
75.0	31535.	*
76.0	45302.	*
77.0	46623.	*
78.0	33696.	*
79.0	16848.	*
80.0	4822.	*
81.0	-10505.	*
82.0	-33056.	*
83.0	-48344.	*
84.0	-50145.	*
85.0	-42221.	*
86.0	-30255.	*
87.0	-16008.	*
88.0	-4442.	*
89.0	4482.	*
90.0	7844.	*
91.0	8734.	*
92.0	7434.	*
93.0	2341.	*
94.0	-3862.	*
95.0	-9285.	*
96.0	-14587.	*
97.0	-20810.	*
98.0	-23692.	*
99.0	-23131.	*
100.0	-22771.	*
101.0	-24092.	*
102.0	-23732.	*
103.0	-18289.	*
104.0	-9945.	*

TRACE DISPLAY.

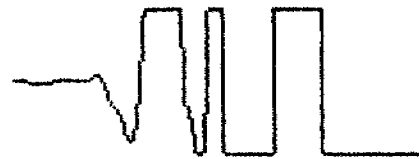
SHOT 16 Time 08:58:45 Level : 74.0 Shot location : D  
Shot depth : 0.6 Charge size : 1.5  
No. surface samples : 128 Down hole sample nos : 0 400 1006  
Sample rates : 500 1000 usec Delay : 0

---

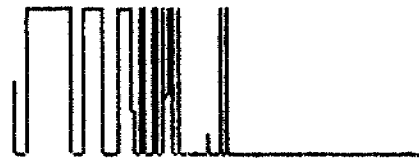
AUX. CHANNEL 1 Max. 10000mV



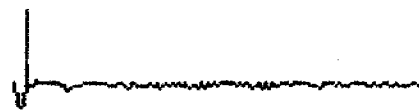
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 385mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 87.563

FIRST ARRIVAL PLOT - Shot 16 Level 74.0

Sample time	Value uV	Well phone data
32.0	-5.	*
33.0	-108.	*
34.0	-175.	*
35.0	-256.	*
36.0	-396.	*
37.0	-535.	*
38.0	-605.	*
39.0	-605.	*
40.0	-525.	*
41.0	-267.	*
42.0	282.	*
43.0	687.	*
44.0	918.	*
45.0	909.	*
46.0	807.	*
47.0	648.	*
48.0	630.	*
49.0	2161.	*
50.0	7684.	*
51.0	25052.	*
52.0	52746.	*
53.0	85002.	*
54.0	98128.	*
55.0	74516.	*
56.0	23612.	*
57.0	-24692.	*
58.0	-35497.	*
59.0	-15448.	*
60.0	-6433.	*
61.0	-35217.	*
62.0	-77638.	*
63.0	-87563.	*
64.0	-61230.	*
65.0	-23451.	*
66.0	-2676.	*
67.0	3209.	*
68.0	-968.	*
69.0	-5473.	*
70.0	-7944.	*
71.0	-8324.	*
72.0	-18569.	*
73.0	-41860.	*
74.0	-65392.	*
75.0	-66032.	*
76.0	-49584.	*
77.0	-36738.	*
78.0	-39579.	*
79.0	-41660.	*
80.0	-24652.	*
81.0	1328.	*
82.0	14747.	*

TRACE DISPLAY.

SHOT 17 Time 09:17:46 Level : 65.0 Shot location : A  
Shot depth : 0.5 Charge size : .25  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

---

AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 24mV



WELL PHONE CHANNEL - Floating point amplifier



Data maximum (mV) : down hole channel - 46.183

FIRST ARRIVAL PLOT - Shot 17 Level 65.0

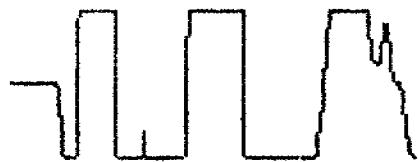
Sample time	Value uV	Well phone data
28.0	53.	*
29.0	-3.	*
30.0	-83.	*
31.0	-19.	*
32.0	121.	*
33.0	285.	*
34.0	433.	*
35.0	517.	*
36.0	543.	!*
37.0	468.	*
38.0	257.	*
39.0	-17.	*
40.0	-266.	*
41.0	-301.	*
42.0	23.	*
43.0	265.	*
44.0	254.	*
45.0	2156.	.*
46.0	9925.	.*
47.0	29975.	.*
48.0	48224.	.*
49.0	46183.	.*
50.0	10225.	.*
51.0	-33937.	*.
52.0	-54146.	*.
53.0	-36379.	*.
54.0	-10845.	*.
55.0	-59.	*.
56.0	4092.	*.
57.0	2814.	*.
58.0	-862.	*.
59.0	-8394.	*.
60.0	-18409.	*.
61.0	-26093.	*.
62.0	-28894.	*.
63.0	-23852.	*.
64.0	-14207.	*.
65.0	-6663.	*.
66.0	-823.	*.
67.0	-935.	*.
68.0	-3714.	*.
69.0	-2061.	*.
70.0	4362.	*.
71.0	8374.	*.
72.0	7484.	*.
73.0	2751.	*.
74.0	737.	*.
75.0	3184.	*.
76.0	5223.	*.
77.0	4682.	*.
78.0	3682.	*.

TRACE DISPLAY.

SHOT 18 Time 09:21:33 Level : 55.0 Shot location : A  
Shot depth : 0.5 Charge size : .2  
No. surface samples : 128 Down hole sample nos : 0 400 1006  
Sample rates : 500 1000 usec Delay : 0

---

AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 24mV

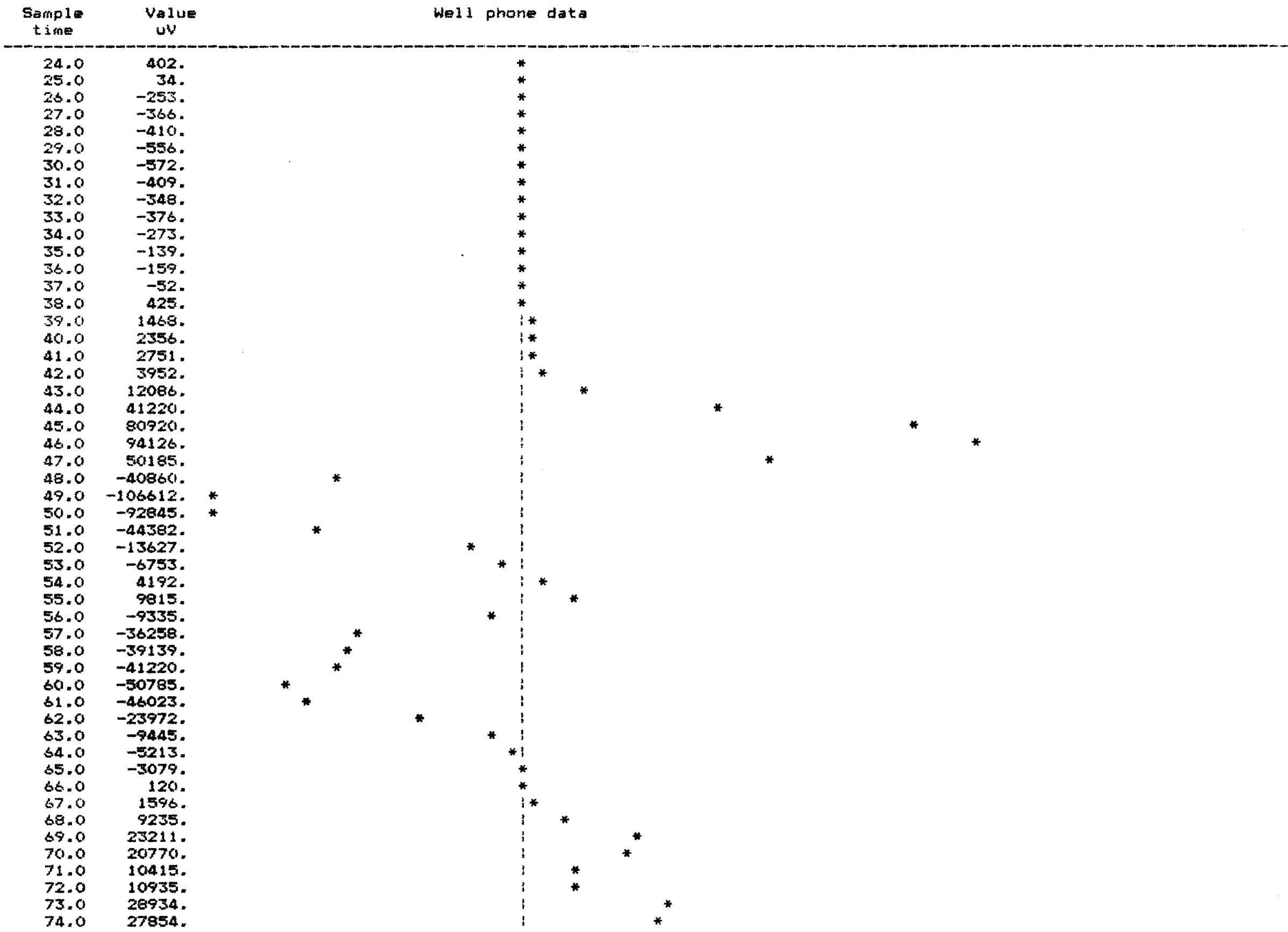


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 106.612

FIRST ARRIVAL PLOT - Shot 18 Level 55.0

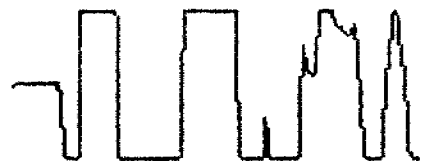


TRACE DISPLAY.

SHOT 21 Time 09:29:31 Level : 25.0 Shot location : A  
Shot depth : 0.5 Charge size : .25  
No. surface samples : 128 Down hole sample nos : 0 400 1006  
Sample rates : 500 1000 usec Delay : 0

---

AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 2641mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 133.665



FIRST ARRIVAL PLOT - Shot 21 Level 25.0

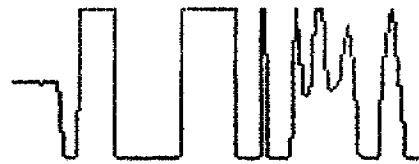
Sample time	Value uV	Well phone data
14.0	270.	*
15.0	558.	*
16.0	835.	*
17.0	1333.	*
18.0	1333.	*
19.0	804.	*
20.0	363.	*
21.0	-17.	*
22.0	-330.	*
23.0	-640.	*
24.0	-827.	*
25.0	-730.	*
26.0	-453.	*
27.0	-305.	*
28.0	-556.	*
29.0	-813.	*
30.0	-425.	*
31.0	6253.	*
32.0	29695.	*
33.0	70755.	*
34.0	110294.	*
35.0	113015.	*
36.0	58309.	*
37.0	-41220.	*
38.0	-125661.	*
39.0	-133665.	*
40.0	-108293.	*
41.0	-97488.	*
42.0	-99489.	*
43.0	-89964.	*
44.0	-81800.	*
45.0	-86442.	*
46.0	-84441.	*
47.0	-75877.	*
48.0	-83801.	*
49.0	-88843.	*
50.0	-57708.	*
51.0	-7474.	*
52.0	55067.	*
53.0	86202.	*
54.0	72595.	*
55.0	23291.	*
56.0	-8624.	*
57.0	-4822.	*
58.0	3132.	*
59.0	-31135.	*
60.0	-41700.	*
61.0	13867.	*
62.0	99249.	*
63.0	128383.	*
64.0	60119.	*

TRACE DISPLAY.

SHOT 22 Time 09:32:22 Level : 20.0 Shot location : A  
Shot depth : 0.5 Charge size : .25  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

---

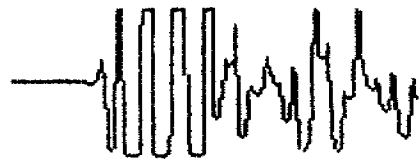
AUX. CHANNEL 1 Max. 10000mV



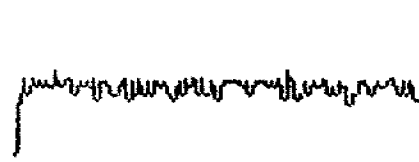
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 58mV

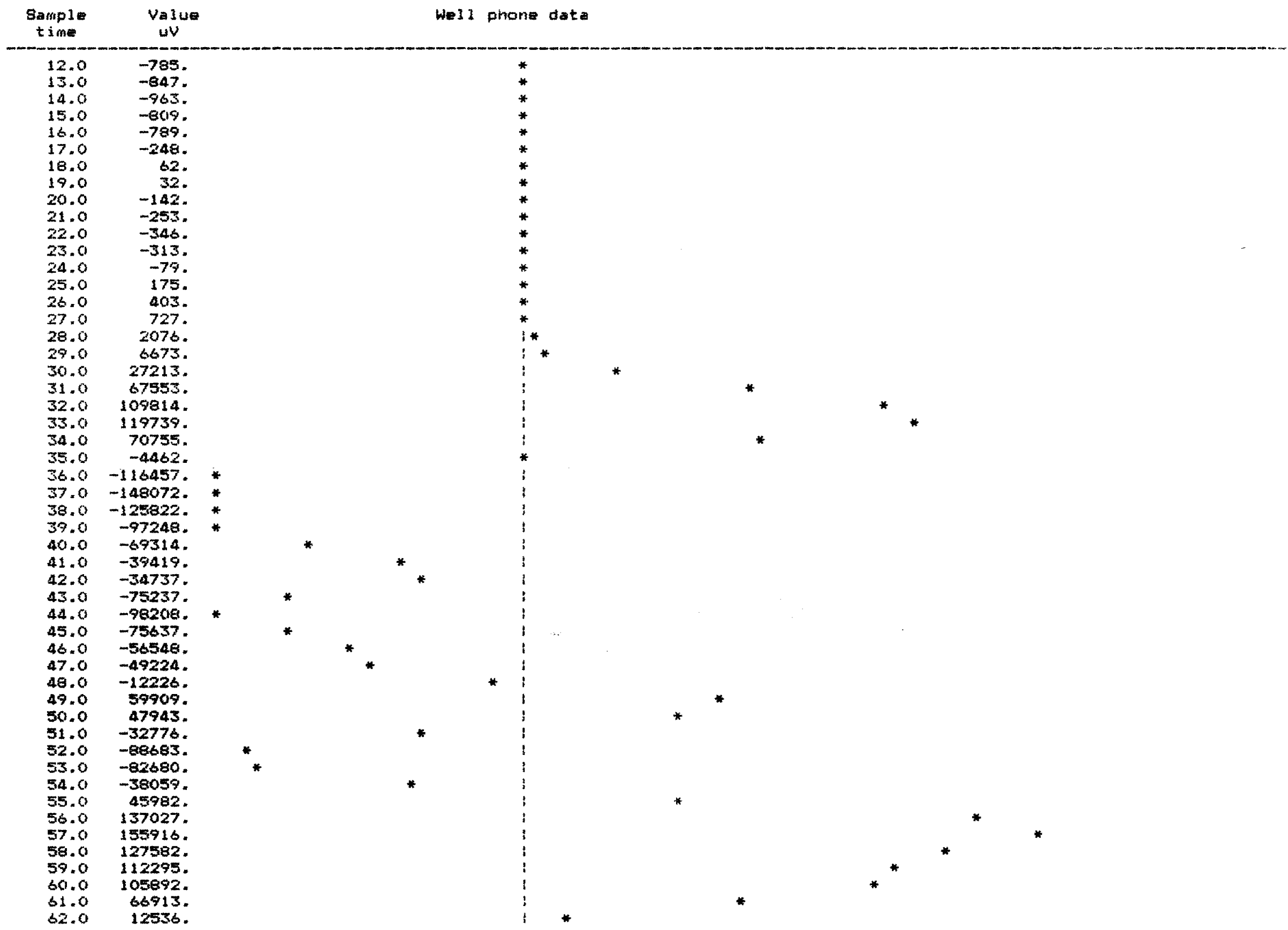


WELL PHONE CHANNEL - floating point amplifier



Date maximum (mV) : down hole channel - 155.916

FIRST ARRIVAL PLOT - Shot 22 Level 20.0

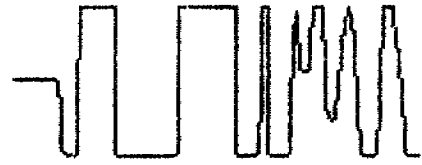


TRACE DISPLAY.

SHOT 24 Time 09:37:38 Level : 12.0 Shot location : A  
Shot depth : 0.5 Charge size : .25  
No. surface samples : 128 Down hole sample nos : 0 400 1006  
Sample rates : 500 1000 usec Delay : 0

---

AUX. CHANNEL 1 Max. 10000mV



AUX. CHANNEL 2 Max. 10000mV



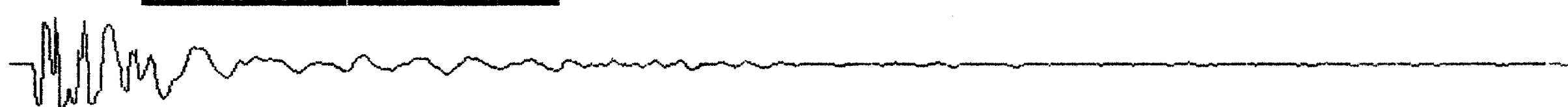
AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 24mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 150.794

FIRST ARRIVAL PLOT - Shot 24 Level 12.0

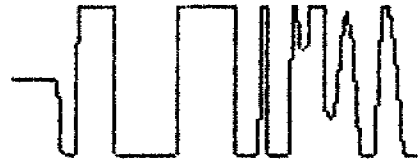
Sample time	Value uV	Well phone data
6.0	286.	*
7.0	287.	*
8.0	147.	*
9.0	40.	*
10.0	-98.	*
11.0	-203.	*
12.0	-326.	*
13.0	-445.	*
14.0	-167.	*
15.0	322.	*
16.0	400.	*
17.0	-214.	*
18.0	-570.	*
19.0	-610.	*
20.0	-679.	*
21.0	-576.	*
22.0	75.	*
23.0	834.	*
24.0	4672.	*
25.0	22691.	*
26.0	58349.	*
27.0	105331.	*
28.0	133345.	*
29.0	127742.	*
30.0	98688.	*
31.0	46383.	*
32.0	-39659.	*
33.0	-131104.	*
34.0	-154315.	*
35.0	-130784.	*
36.0	-116137.	*
37.0	-122940.	*
38.0	-125181.	*
39.0	-109734.	*
40.0	-69154.	*
41.0	-14527.	*
42.0	57028.	*
43.0	30015.	*
44.0	-80599.	*
45.0	-150794.	*
46.0	-133505.	*
47.0	-100049.	*
48.0	-79159.	*
49.0	-31736.	*
50.0	60870.	*
51.0	141029.	*
52.0	148713.	*
53.0	125982.	*
54.0	116537.	*
55.0	114616.	*
56.0	100049.	*

TRACE DISPLAY.

SHOT 25 Time 09:40:18 Level : 8.0 Shot location : A  
Shot depth : 0.5 Charge size : .2  
No. surface samples : 128 Down hole sample nos : 0 400 1008  
Sample rates : 500 1000 usec Delay : 0

---

AUX. CHANNEL 1 Max. 10000mV



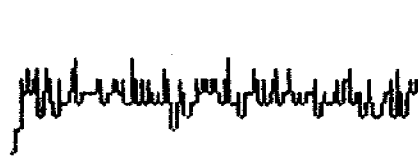
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 10000mV



AUX. CHANNEL 4 Max. 29mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 158.157

FIRST ARRIVAL PLOT - Shot 25 Level 8.0

Sample time	Value uV	Well phone data
4.0	64.	*
5.0	-716.	*
6.0	-1223.	*
7.0	-1431.	*
8.0	-1788.	*
9.0	-2156.	*
10.0	-2071.	*
11.0	-1746.	*
12.0	-1528.	*
13.0	-1216.	*
14.0	-626.	*
15.0	-562.	*
16.0	-471.	*
17.0	-287.	*
18.0	-172.	*
19.0	-191.	*
20.0	325.	*
21.0	1938.	*
22.0	5863.	*
23.0	18689.	*
24.0	44182.	*
25.0	84441.	*
26.0	119739.	*
27.0	131904.	*
28.0	118298.	*
29.0	80920.	*
30.0	10865.	*
31.0	-84121.	*
32.0	-150474.	*
33.0	-148232.	*
34.0	-122860.	*
35.0	-117658.	*
36.0	-124541.	*
37.0	-112695.	*
38.0	-69714.	*
39.0	-9535.	*
40.0	93566.	*
41.0	111895.	*
42.0	32216.	*
43.0	-93566.	*
44.0	-149193.	*
45.0	-122860.	*
46.0	-61070.	*
47.0	3084.	*
48.0	99569.	*
49.0	149033.	*
50.0	133185.	*
51.0	78038.	*
52.0	7324.	*
53.0	-73156.	*
54.0	-80840.	*