

Velocity Data Pty Ltd

WELL VELOCITY SURVEY

CLIENT : GAS AND FUEL EXPLORATION
WELL IDENTIFICATION : MCEACHERN #1
SURVEY DATE : 09-JAN-90
SURVEY TIME : 09:20:00
SURVEY UNITS : METRES
AUTHORITY TO PROSPECT : PEP 95

WELL LATITUDE : 037 33 51
WELL LONGITUDE : 141 11 26

KELLY ELEVATION : 81.7
GROUND ELEVATION : 76.4

WEATHER : FINE

ENERGY SOURCE : AN60

CLIENT REP : MR A. TABASSI
OBSERVER : N. DELFOS
SHOOTER : J.BROWN

RIG IDENTIFICATION : G.D.S 2
CASING DEPTH : 108.
LOGGING UNIT : GEARHART DDL6

RECORDING INSTRUMENTS : VDLS11/10
SYSTEM DELAY TIME 4 MSEC.

TRACE DISPLAY.

SHOT 3 Time 12:31:00 Level : 76.4 Shot location : A
Shot depth : 0.1 Charge size : G,DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 10000mV



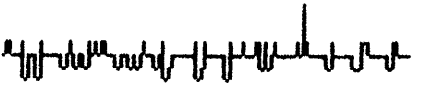
AUX. CHANNEL 2 Max. 6567mV



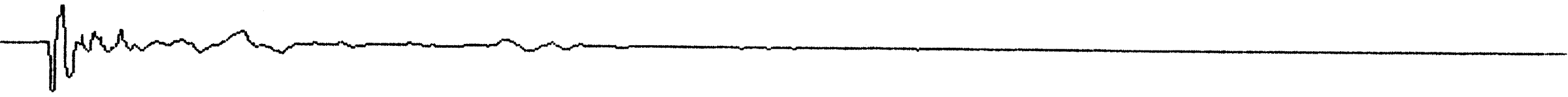
AUX. CHANNEL 3 Max. 34mV



AUX. CHANNEL 4 Max. 29mV

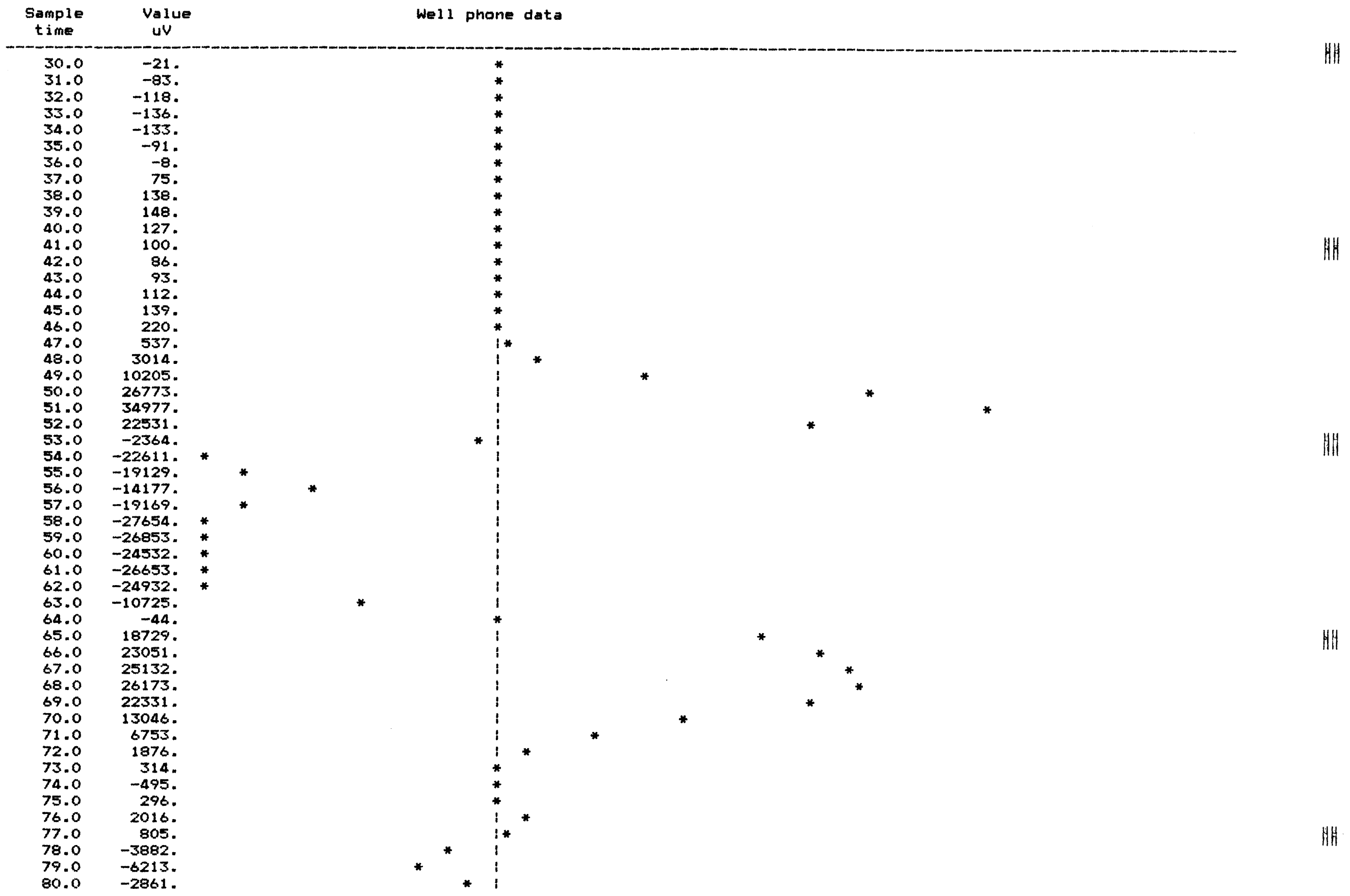


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 34.977

FIRST ARRIVAL PLOT - Shot 3 Level 76.4



TRACE DISPLAY.

SHOT 4 Time 12:32:34 Level : 76.4 Shot location : B
Shot depth : 0.1 Charge size : DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

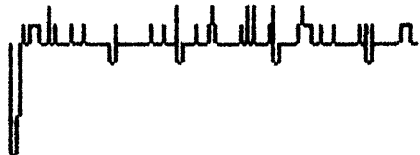
AUX. CHANNEL 1 Max. 693mV



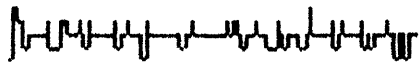
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 19mV



AUX. CHANNEL 4 Max. 29mV

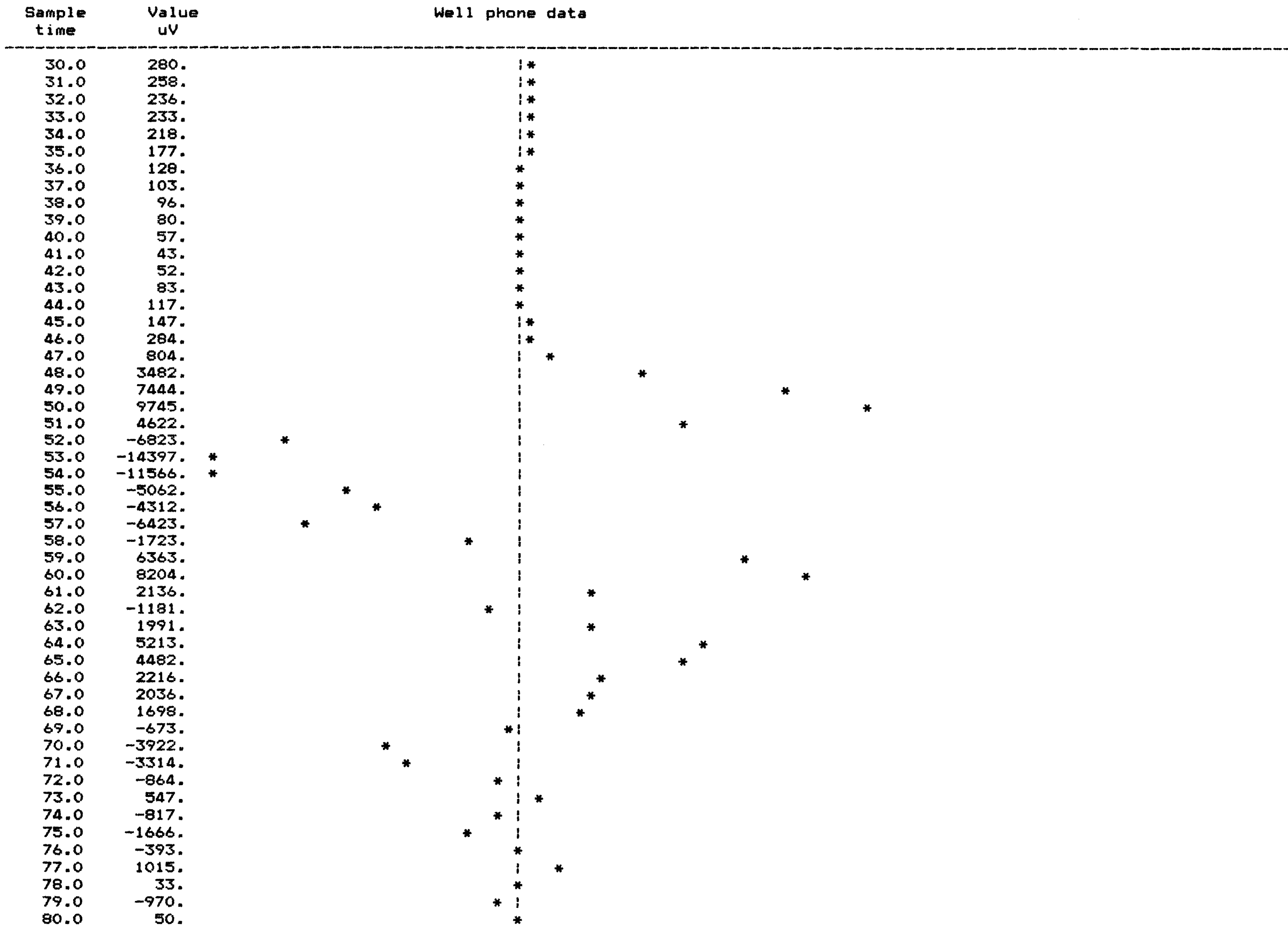


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 14.397

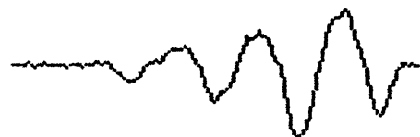
FIRST ARRIVAL PLOT - Shot 4 Level 76.4



TRACE DISPLAY.

SHOT 5 Time 12:34:05 Level : 76.4 Shot location : C
Shot depth : 0.1 Charge size : G,DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

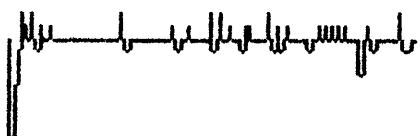
AUX. CHANNEL 1 Max. 224mV



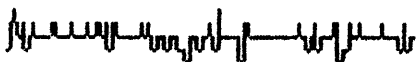
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 29mV



AUX. CHANNEL 4 Max. 29mV

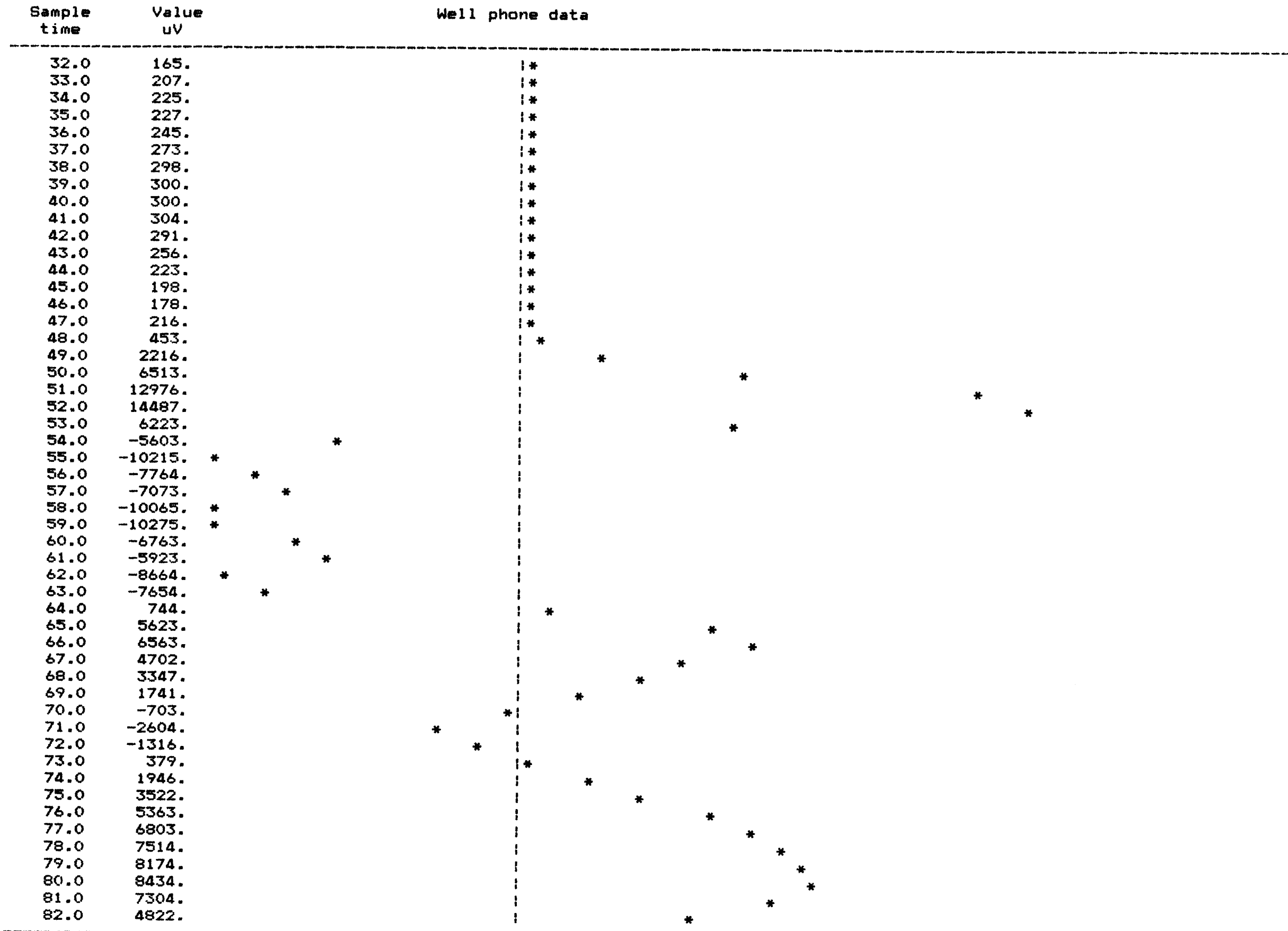


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 12.976

FIRST ARRIVAL PLOT - Shot 5 Level 76.4



TRACE DISPLAY.

SHOT 6 Time 12:37:41 Level : 76.4 Shot location : D
Shot depth : 1.2 Charge size : 1.0
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 2109mV



AUX. CHANNEL 2 Max. 1499mV



AUX. CHANNEL 3 Max. 1752mV



AUX. CHANNEL 4 Max. 595mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 327.840

FIRST ARRIVAL PLOT - Shot 6 Level 76.4

Sample time	Value uV	Well phone data
28.0	-111.	*
29.0	-87.	*
30.0	-58.	*
31.0	-39.	*
32.0	-18.	*
33.0	18.	*
34.0	54.	*
35.0	93.	*
36.0	129.	*
37.0	159.	*
38.0	178.	*
39.0	194.	*
40.0	247.	*
41.0	336.	*
42.0	535.	*
43.0	1536.	*
44.0	6393.	*
45.0	47223.	*
46.0	206021.	* *
47.0	327680.	* *
48.0	327680.	* * *
49.0	327680.	* * *
50.0	327680.	* * *
51.0	327680.	* * *
52.0	58629.	* *
53.0	-20490.	* *
54.0	-327840.	* *
55.0	-327840.	* *
56.0	-327840.	* *
57.0	-327840.	* *
58.0	-327840.	* *
59.0	-327840.	* *
60.0	-327840.	* *
61.0	-327840.	* *
62.0	-327840.	* *
63.0	-327840.	* *
64.0	-327840.	* *
65.0	-274374.	* *
66.0	-192094.	* *
67.0	-241718.	* *
68.0	-296945.	* *
69.0	-192894.	* *
70.0	-70595.	* *
71.0	-70675.	* *
72.0	-137507.	* *
73.0	-82440.	* *
74.0	40020.	* *
75.0	78518.	* *
76.0	3632.	* *
77.0	-48624.	* *
78.0	-36298.	* *

TRACE DISPLAY.

SHOT 7 Time 12:59:14 Level : 1105.1 Shot location : D
Shot depth : 1.8 Charge size : 0.5
No. surface samples : 128 Down hole sample nos : 214 400 794
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 1577mV



AUX. CHANNEL 2 Max. 1474mV



AUX. CHANNEL 3 Max. 1543mV



AUX. CHANNEL 4 Max. 517mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 14.097

FIRST ARRIVAL PLOT - Shot 7 Level 1105.1

Sample time	Value uV	Well phone data
474.0	-76.	*
474.5	-80.	*
475.0	-37.	*
475.5	-51.	*
476.0	-60.	*
476.5	-55.	*
477.0	-31.	*
477.5	-58.	*
478.0	5.	*
478.5	45.	*
479.0	54.	*
479.5	54.	*
480.0	53.	*
480.5	53.	*
481.0	265.	*
481.5	294.	*
482.0	320.	*
482.5	353.	*
483.0	411.	*
483.5	504.	*
484.0	610.	*
484.5	698.	*
485.0	732.	*
485.5	687.	*
486.0	570.	*
486.5	399.	*
487.0	53.	*
487.5	-28.	*
488.0	-126.	*
488.5	-188.	*
489.0	-185.	*
489.5	-108.	*
490.0	-46.	*
490.5	53.	*
491.0	477.	*
491.5	852.	*
492.0	1168.	*
492.5	1836.	*
493.0	2669.	*
493.5	3687.	*
494.0	4662.	*
494.5	5913.	*
495.0	7224.	*
495.5	8494.	*
496.0	9735.	*
496.5	10865.	*
497.0	11786.	*
497.5	12436.	*
498.0	12826.	*
498.5	12866.	*
499.0	12546.	*

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TRACE DISPLAY.

SHOT 8 Time 13:15:04 Level : 1734.9 Shot location : D
Shot depth : 1.8 Charge size : 1.0
No. surface samples : 129 Down hole sample nos : 397 400 611
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 2251mV



AUX. CHANNEL 2 Max. 1557mV



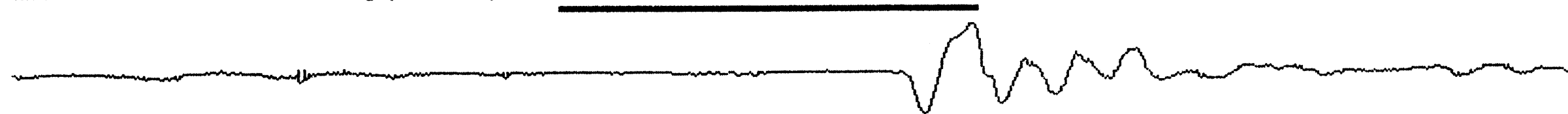
AUX. CHANNEL 3 Max. 2182mV



AUX. CHANNEL 4 Max. 595mV

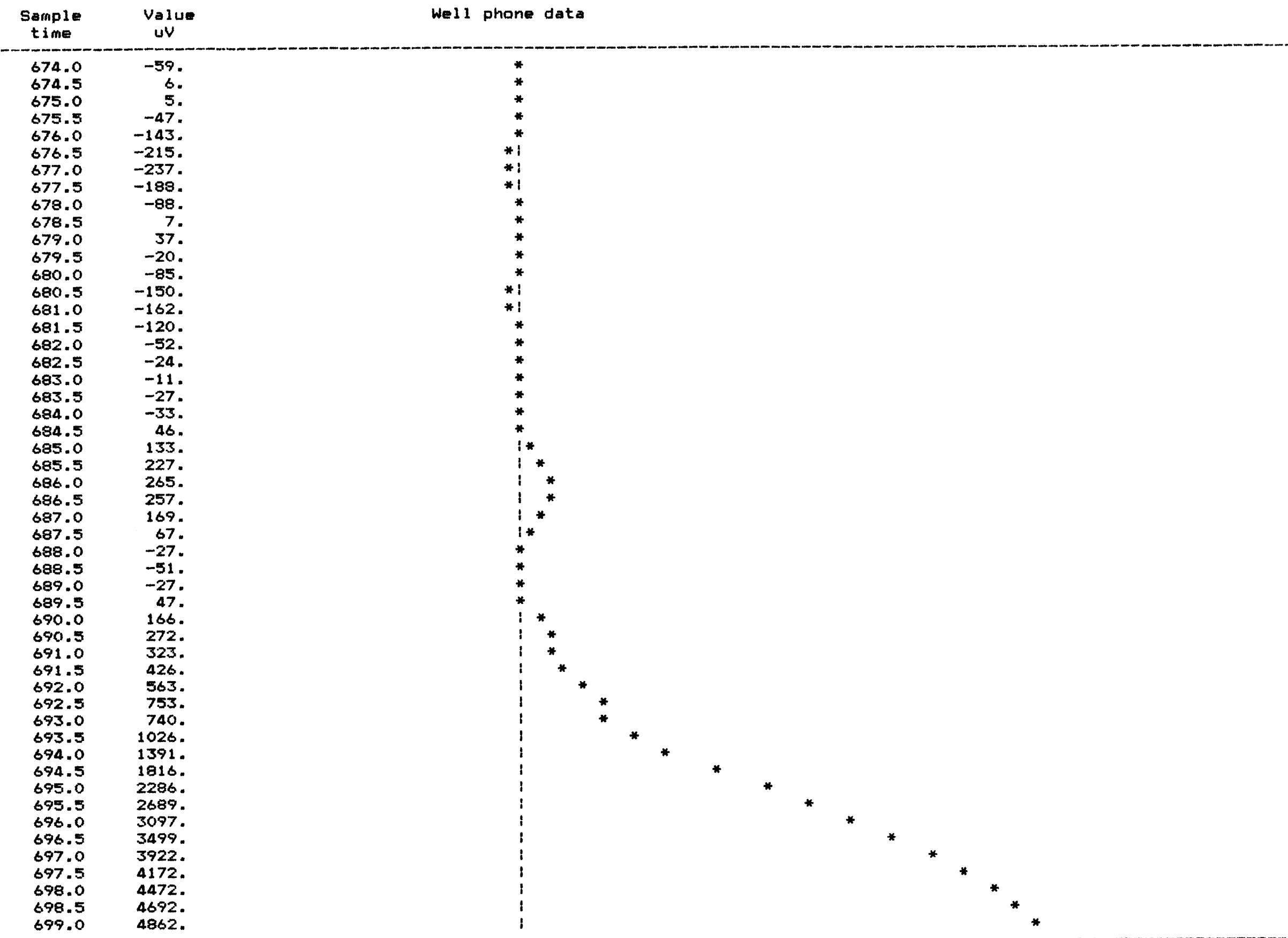


WELL PHONE CHANNEL - Floating point amplifier



Data maximum (mV) : down hole channel - 6.063

FIRST ARRIVAL PLOT - Shot 8 Level 1734.9



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TRACE DISPLAY.

SHOT 9 Time 13:34:40 Level : 2372.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 574 400 434
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 4248mV



AUX. CHANNEL 2 Max. 1630mV



AUX. CHANNEL 3 Max. 3954mV



AUX. CHANNEL 4 Max. 1025mV

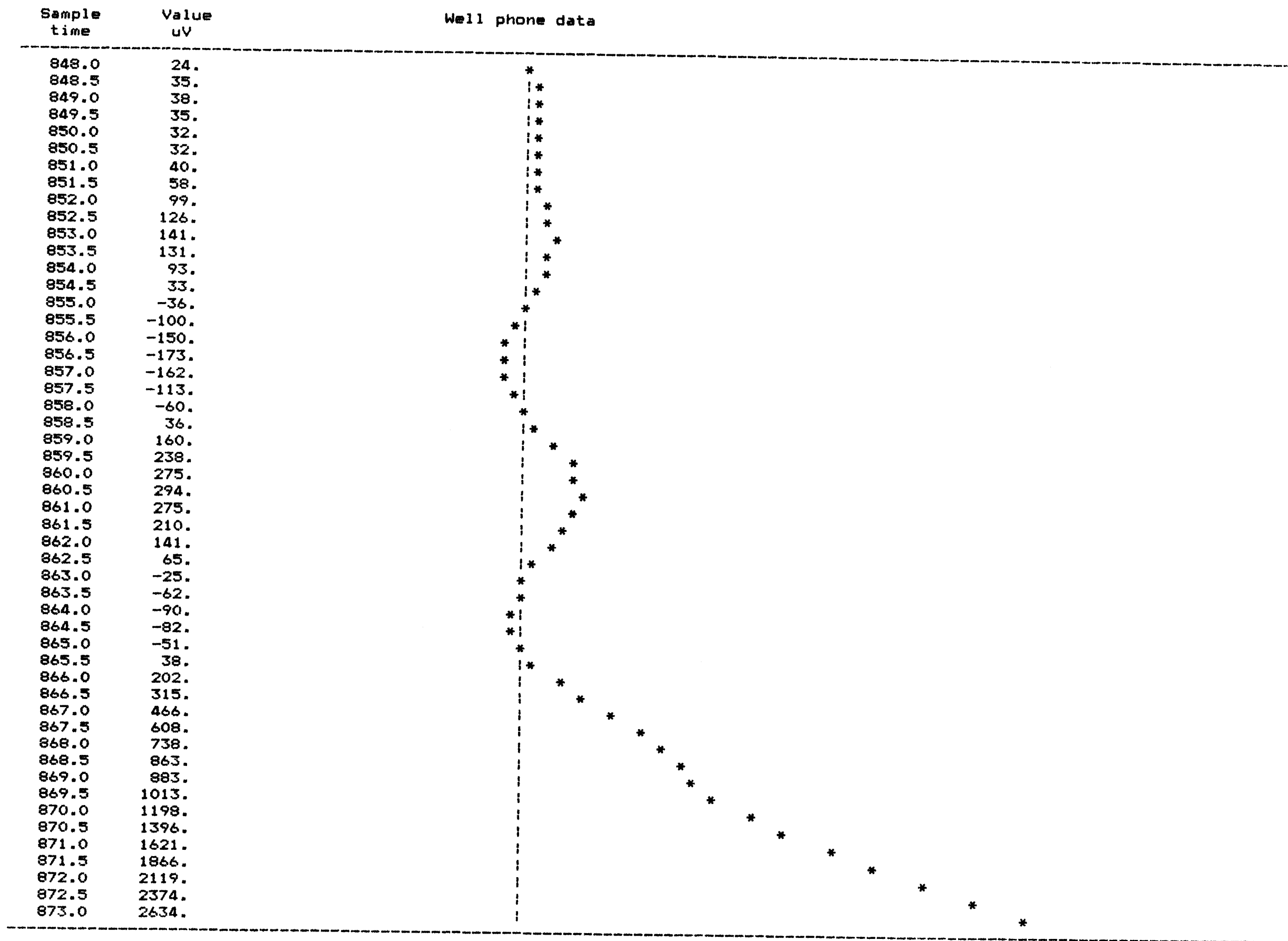


WELL PHONE CHANNEL - Floating point amplifier



Data maximum (mV) : down hole channel - 5.062

FIRST ARRIVAL PLOT - Shot 9 Level 2372.0



TRACE DISPLAY.

SHOT 11 Time 13:42:15 Level : 2359.8 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 571 400 437
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3261mV



AUX. CHANNEL 2 Max. 1464mV



AUX. CHANNEL 3 Max. 2705mV



AUX. CHANNEL 4 Max. 532mV

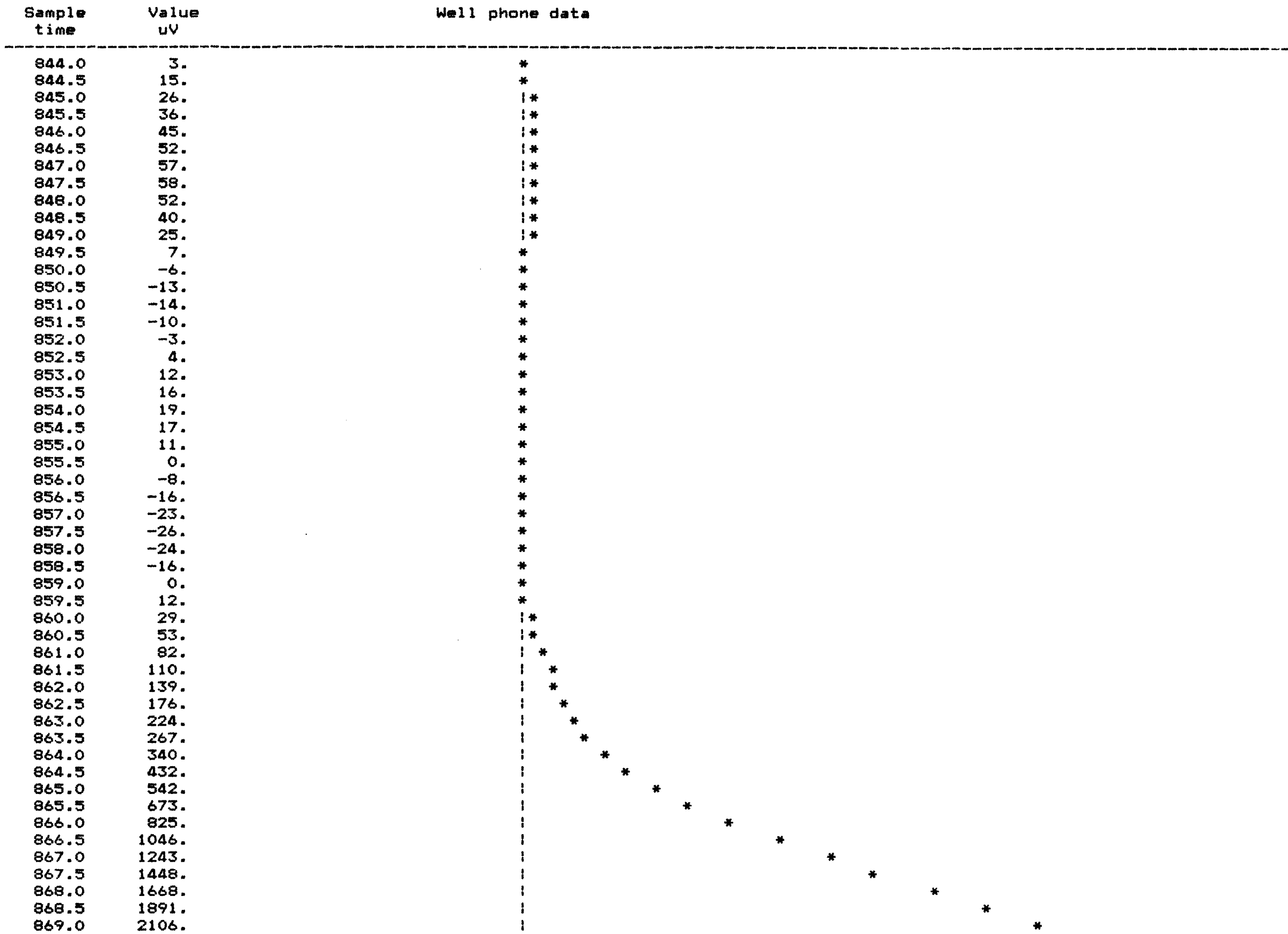


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 38.139

FIRST ARRIVAL PLOT - Shot 11 Level 2359.8



TRACE DISPLAY.

SHOT 12 Time 13:50:06 Level : 2299.7 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 555 400 453
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3730mV



AUX. CHANNEL 2 Max. 2148mV



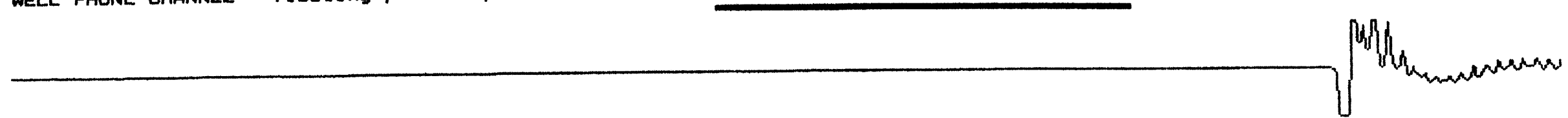
AUX. CHANNEL 3 Max. 3354mV



AUX. CHANNEL 4 Max. 537mV

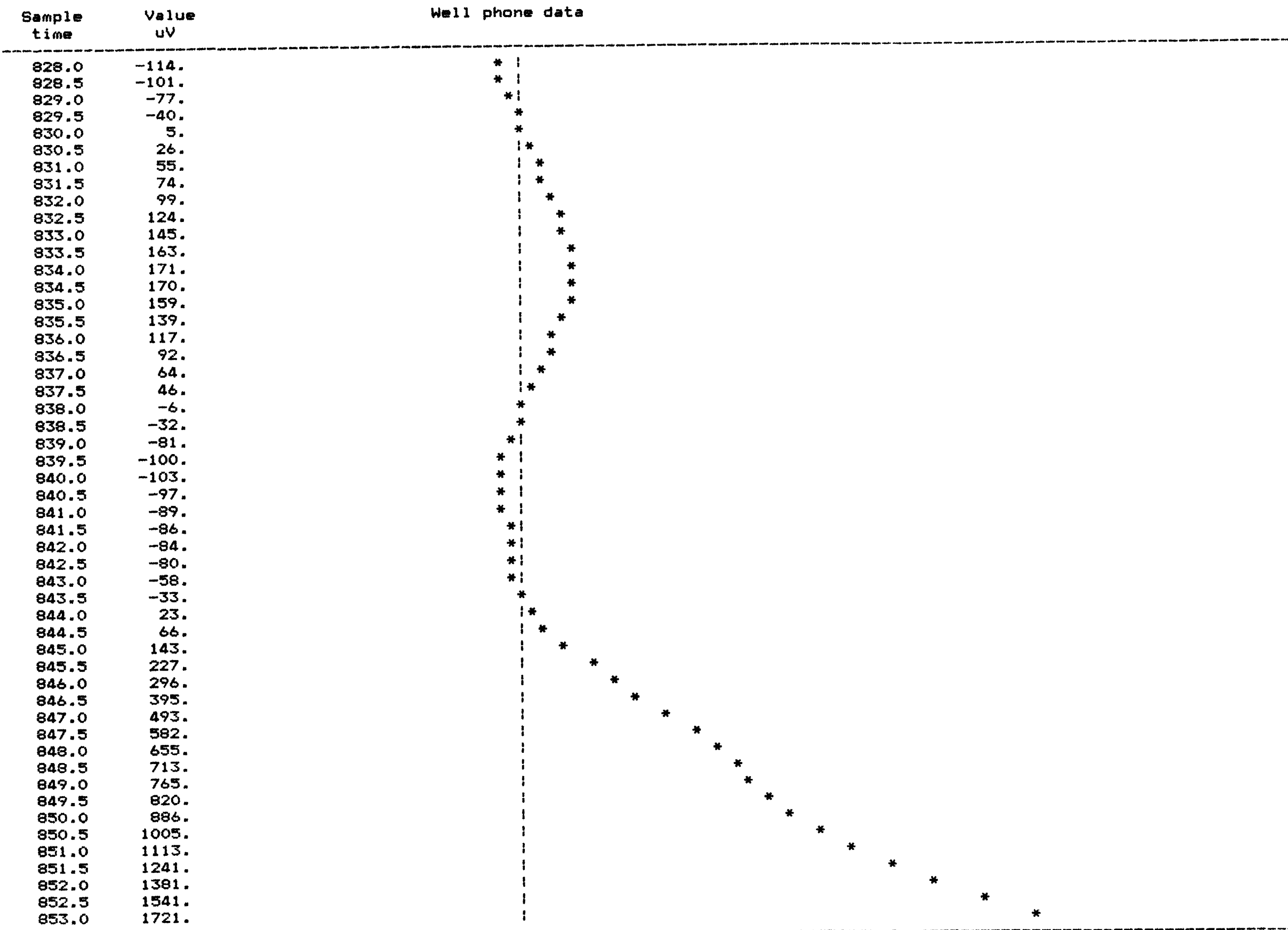


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 327.840

FIRST ARRIVAL PLOT - Shot 12 Level 2299.7



TRACE DISPLAY.

SHOT 13 Time 14:00:38 Level : 2171.1 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 521 400 487
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3359mV



AUX. CHANNEL 2 Max. 3715mV



AUX. CHANNEL 3 Max. 3354mV



AUX. CHANNEL 4 Max. 483mV

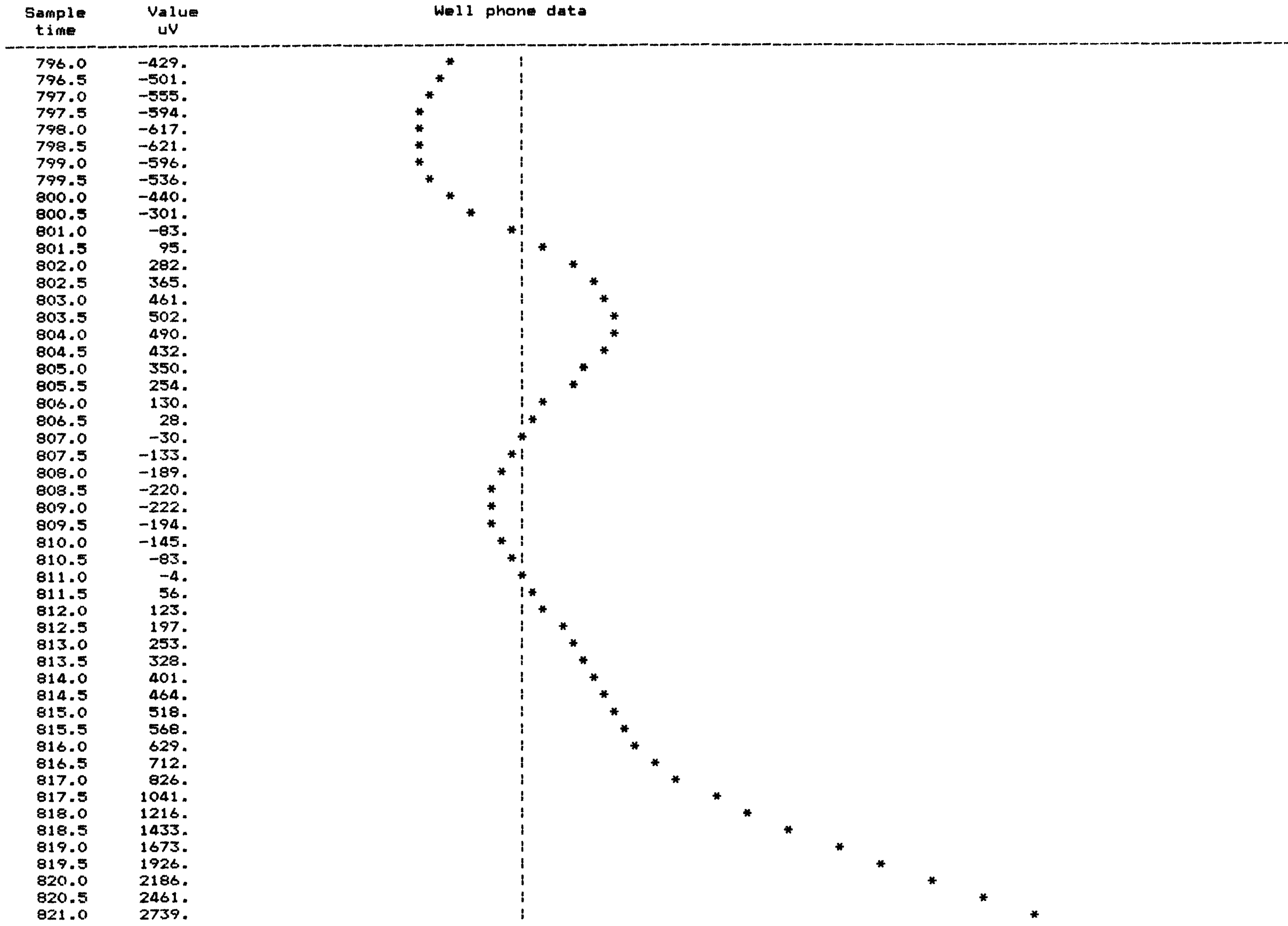


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 6.263

FIRST ARRIVAL PLOT - Shot 13 Level 2171.1



TRACE DISPLAY.

SHOT 14 Time 14:05:23 Level : 2171.1 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 521 400 487
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3320mV



AUX. CHANNEL 2 Max. 2421mV



AUX. CHANNEL 3 Max. 3706mV



AUX. CHANNEL 4 Max. 302mV

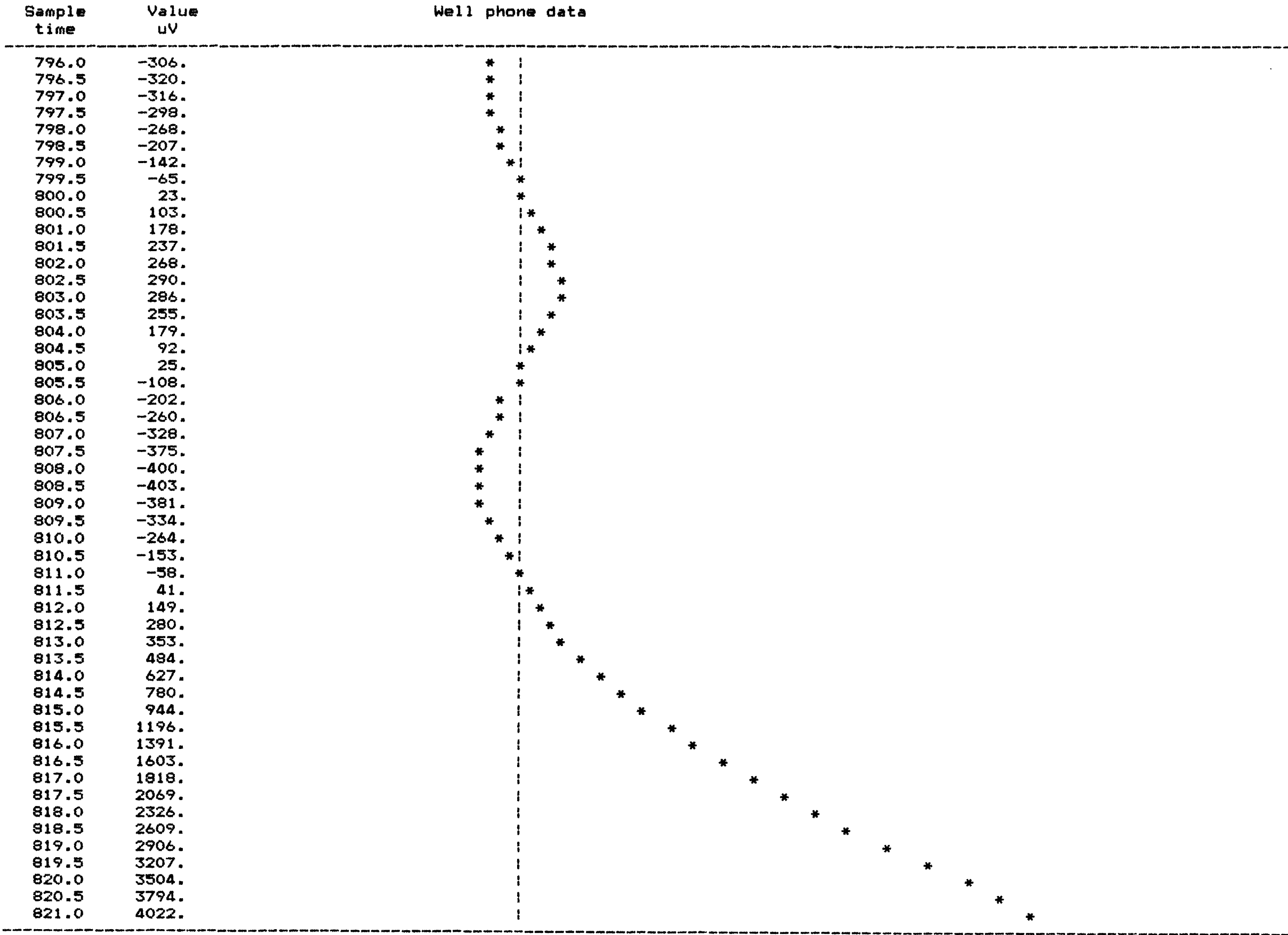


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 6.293

FIRST ARRIVAL PLOT - Shot 14 Level 2171.1



TRACE DISPLAY.

SHOT 15 Time 14:13:55 Level : 2095.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 500 400 508
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3188mV



AUX. CHANNEL 2 Max. 10000mV



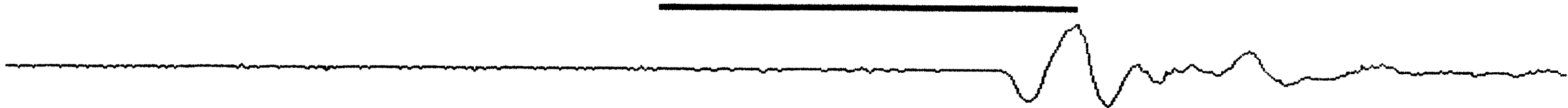
AUX. CHANNEL 3 Max. 3359mV



AUX. CHANNEL 4 Max. 639mV

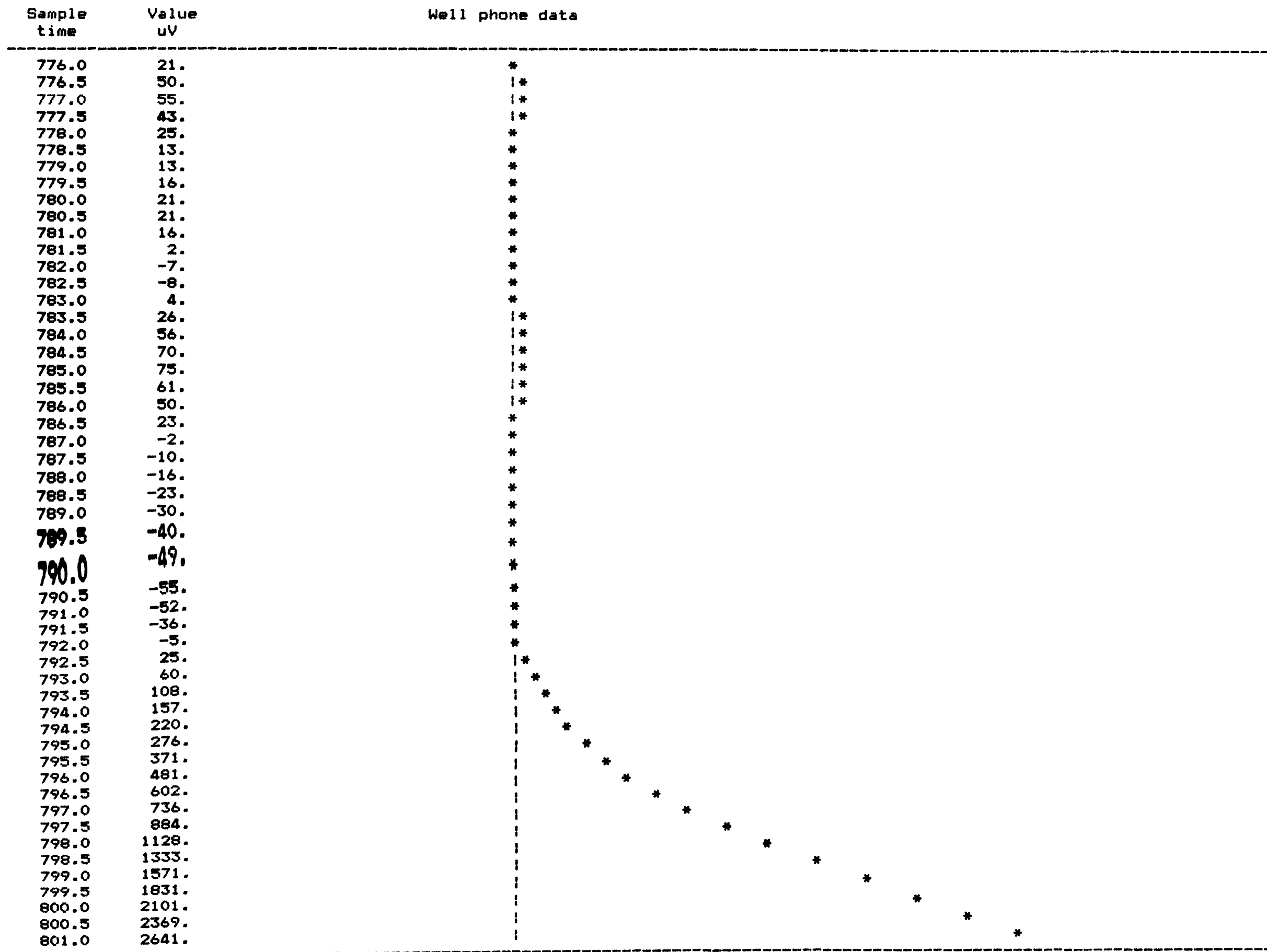


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 5.963

FIRST ARRIVAL PLOT - Shot 15 Level 2095.0



TRACE DISPLAY.

SHOT 16 Time 14:21:39 Level : 2010.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 475 400 533
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 4423mV



AUX. CHANNEL 2 Max. 2011mV



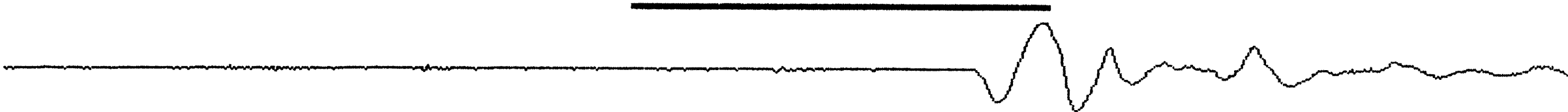
AUX. CHANNEL 3 Max. 4087mV



AUX. CHANNEL 4 Max. 459mV

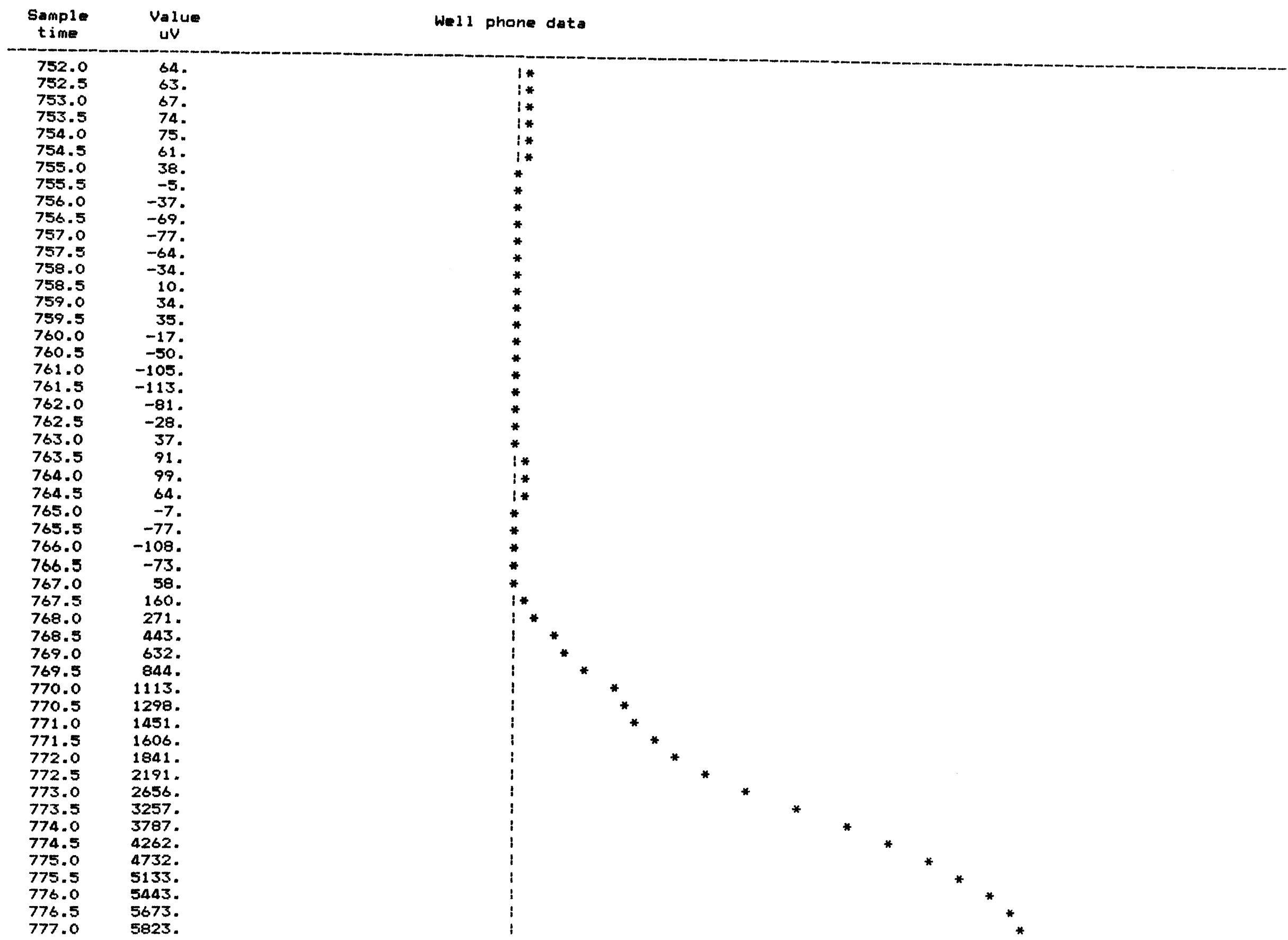


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 8.814

FIRST ARRIVAL PLOT - Shot 16 Level 2010.0



TRACE DISPLAY.

SHOT 17 Time 14:27:37 Level : 1900.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 442 400 566
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3652mV



AUX. CHANNEL 2 Max. 1982mV



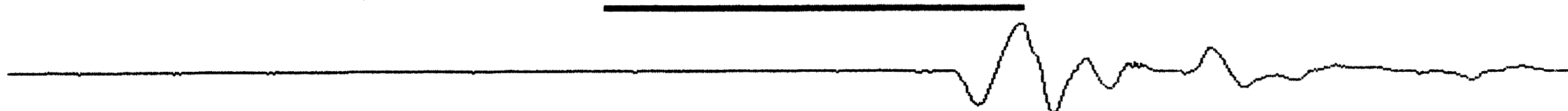
AUX. CHANNEL 3 Max. 3540mV



AUX. CHANNEL 4 Max. 307mV

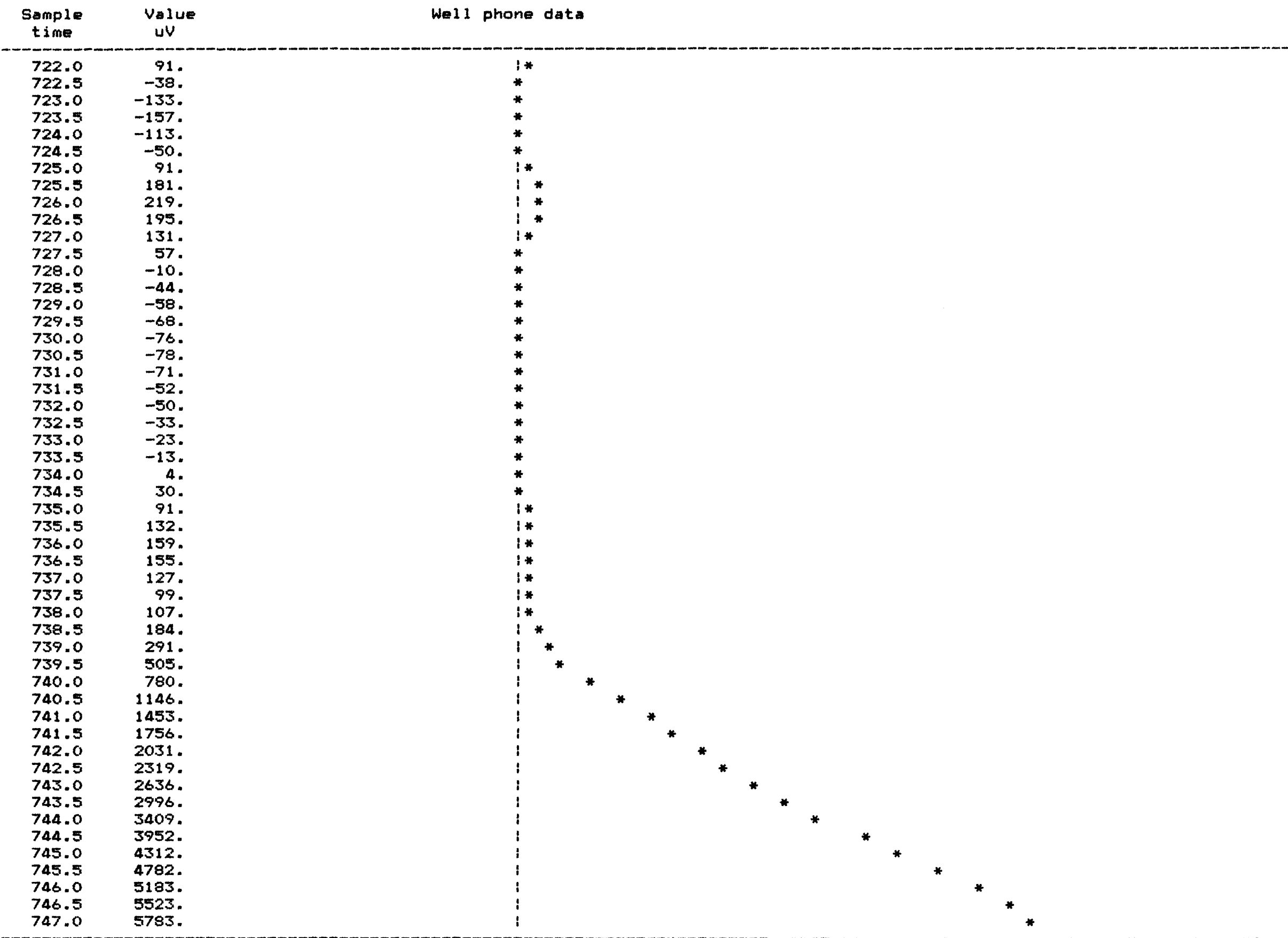


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 8.934

FIRST ARRIVAL PLOT - Shot 17 Level 1900.0



TRACE DISPLAY.

SHOT 18 Time 14:39:36 Level : 1734.9 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 397 400 611
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3232mV



AUX. CHANNEL 2 Max. 4619mV



AUX. CHANNEL 3 Max. 3613mV



AUX. CHANNEL 4 Max. 322mV

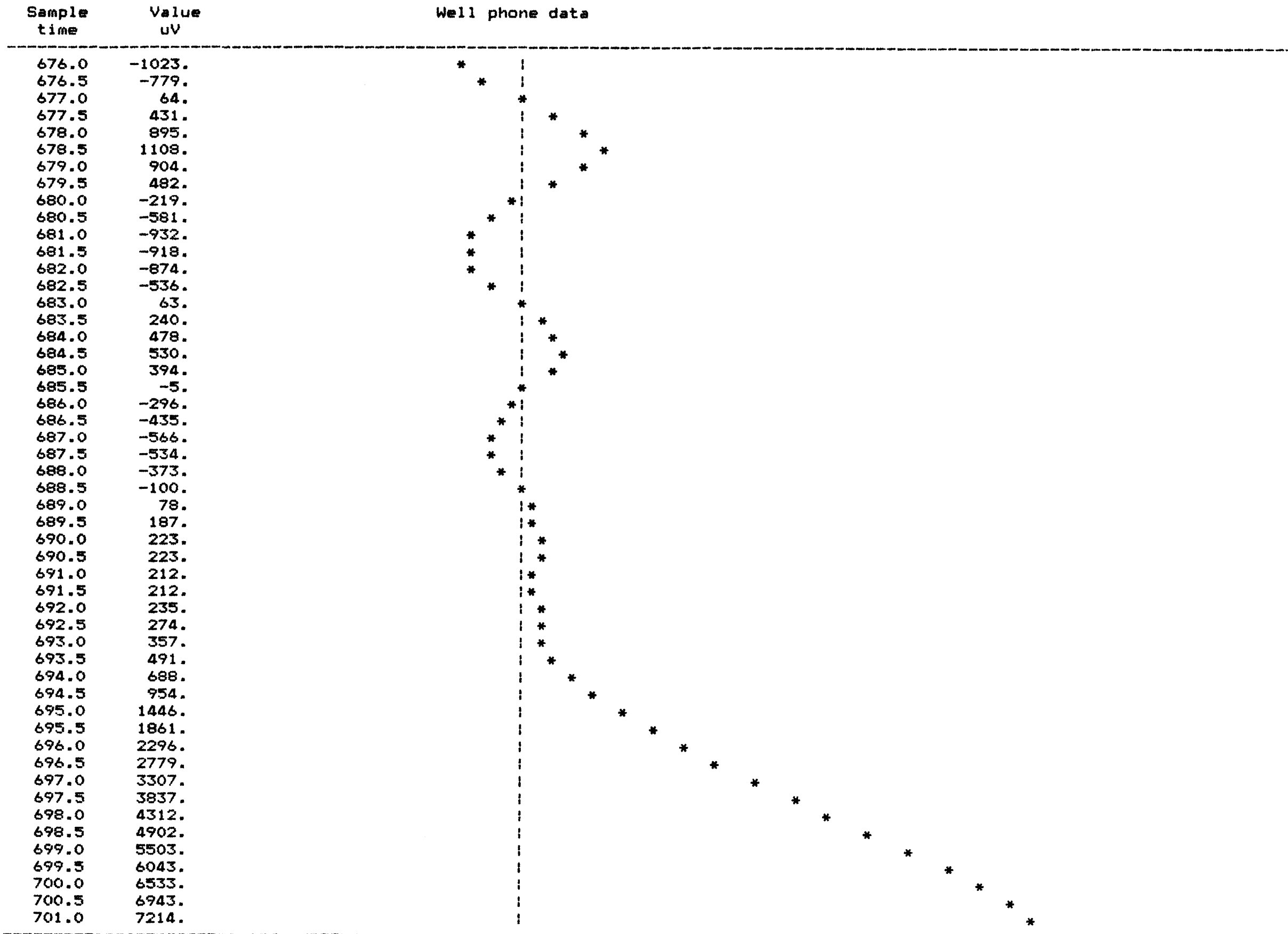


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 11.165

FIRST ARRIVAL PLOT - Shot 18 Level 1734.9



TRACE DISPLAY.

SHOT 19 Time 14:46:47 Level : 1605.1 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 363 400 645
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 3676mV



AUX. CHANNEL 2 Max. 2524mV



AUX. CHANNEL 3 Max. 3945mV



AUX. CHANNEL 4 Max. 351mV

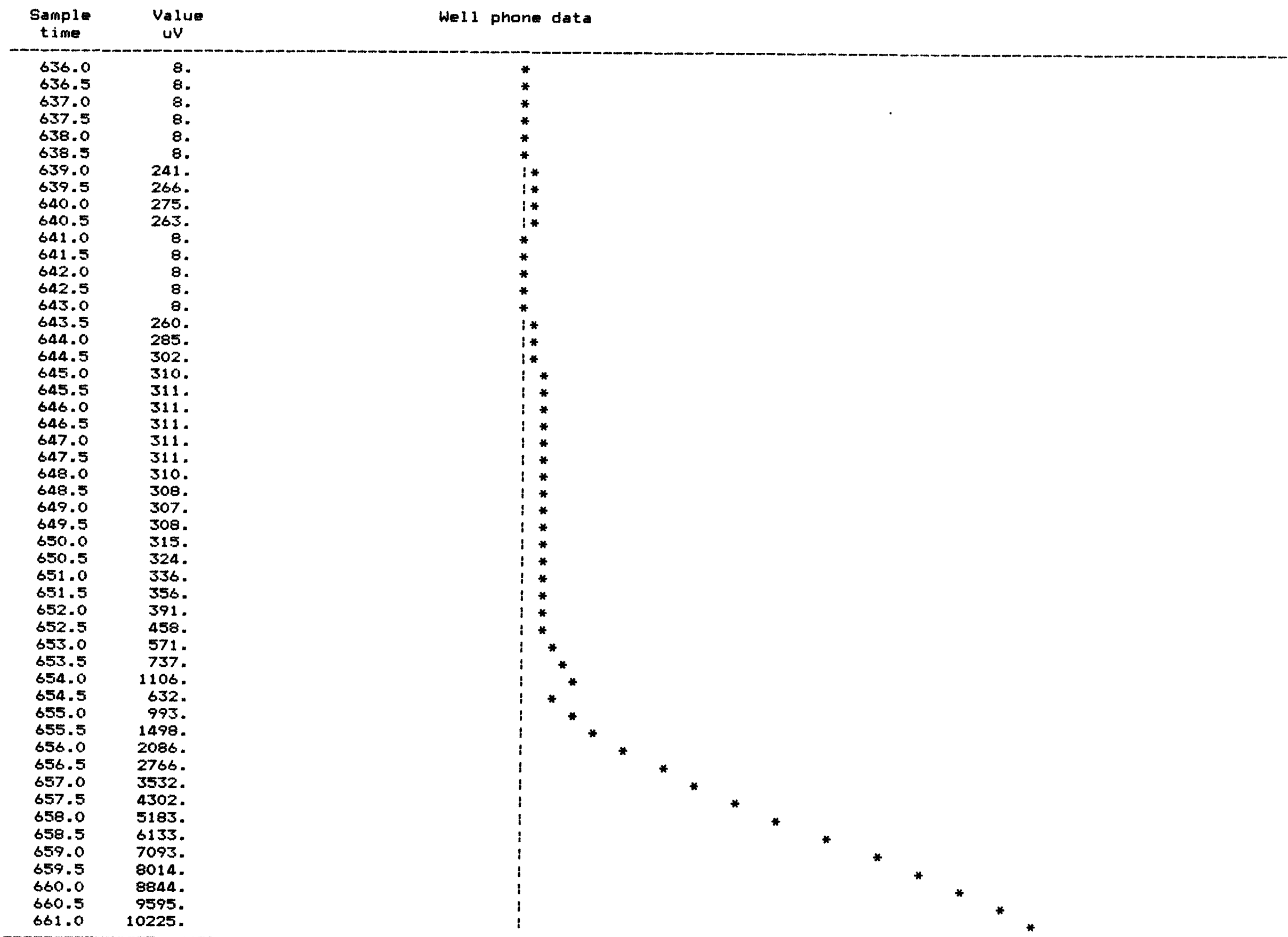


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 13.817

FIRST ARRIVAL PLOT - Shot 19 Level 1605.1



TRACE DISPLAY.

SHOT 21 Time 14:55:59 Level : 1501.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 335 400 673
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 4970mV



AUX. CHANNEL 2 Max. 2597mV



AUX. CHANNEL 3 Max. 4008mV



AUX. CHANNEL 4 Max. 502mV

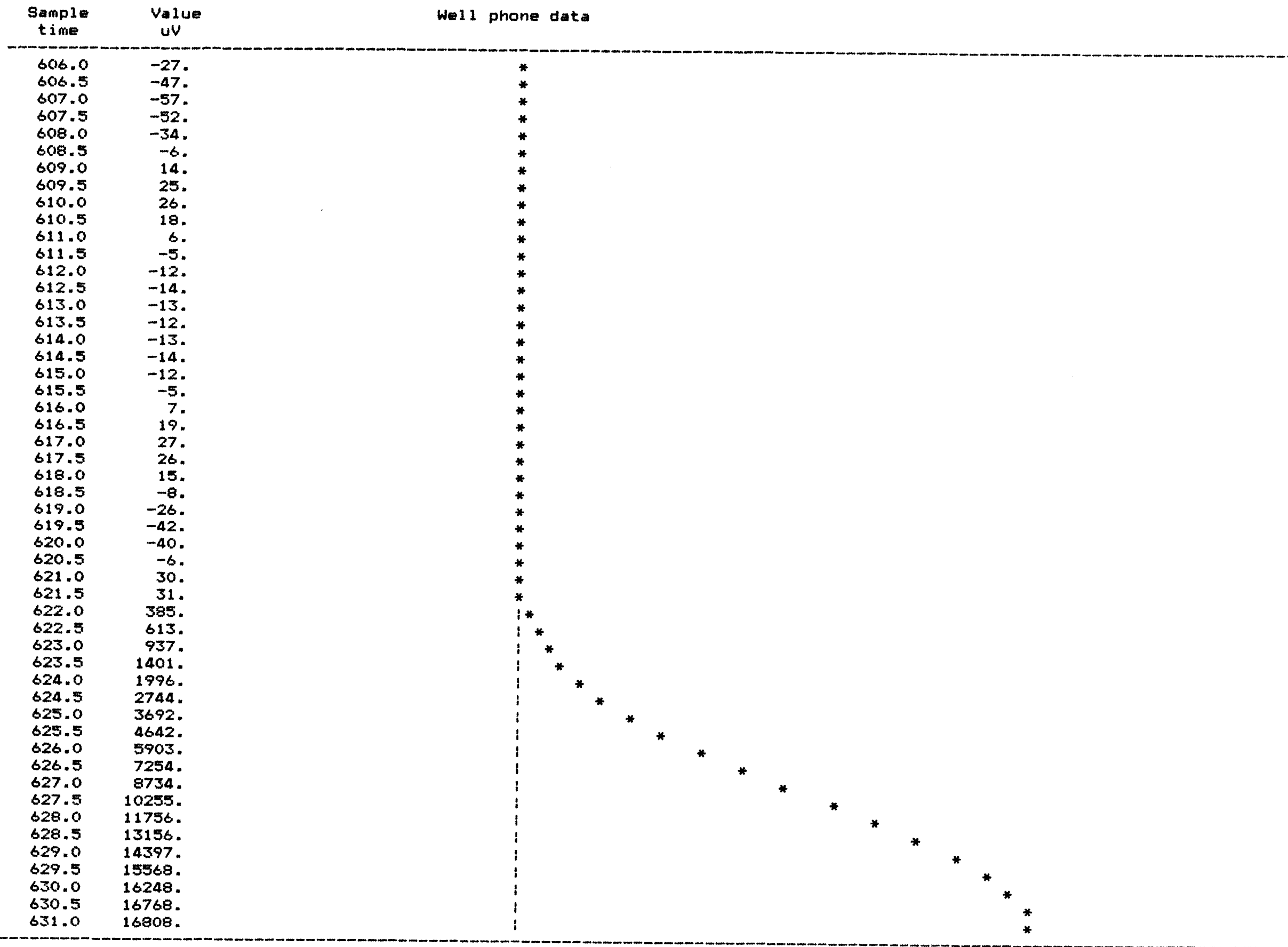


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 17.208

FIRST ARRIVAL PLOT - Shot 21 Level 1501.0



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TRACE DISPLAY.

SHOT 24 Time 15:09:08 Level : 1410.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 308 400 700
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 4072mV



AUX. CHANNEL 2 Max. 2216mV



AUX. CHANNEL 3 Max. 2959mV



AUX. CHANNEL 4 Max. 634mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 17.409

FIRST ARRIVAL PLOT - Shot 24 Level 1410.0

Sample time	Value uV	Well phone data
578.0	68.	*
578.5	69.	*
579.0	56.	*
579.5	29.	*
580.0	-11.	*
580.5	-37.	*
581.0	-56.	*
581.5	-58.	*
582.0	-44.	*
582.5	-21.	*
583.0	6.	*
583.5	24.	*
584.0	36.	*
584.5	37.	*
585.0	25.	*
585.5	-3.	*
586.0	-18.	*
586.5	-36.	*
587.0	-43.	*
587.5	-36.	*
588.0	-17.	*
588.5	9.	*
589.0	27.	*
589.5	37.	*
590.0	32.	*
590.5	10.	*
591.0	-16.	*
591.5	-47.	*
592.0	-78.	*
592.5	-89.	*
593.0	-78.	*
593.5	-48.	*
594.0	30.	*
594.5	106.	*
595.0	211.	*
595.5	308.	*
596.0	464.	*
596.5	675.	*
597.0	1071.	*
597.5	1493.	*
598.0	2056.	*
598.5	2769.	*
599.0	3632.	*
599.5	4502.	*
600.0	5643.	*
600.5	6873.	*
601.0	8184.	*
601.5	9515.	*
602.0	10825.	*
602.5	12046.	*
603.0	13126.	*

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TRACE DISPLAY.

SHOT 25 Time 00:02:46 Level : 1300.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 275 400 733
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 5175mV



AUX. CHANNEL 2 Max. 2504mV



AUX. CHANNEL 3 Max. 3545mV



AUX. CHANNEL 4 Max. 444mV

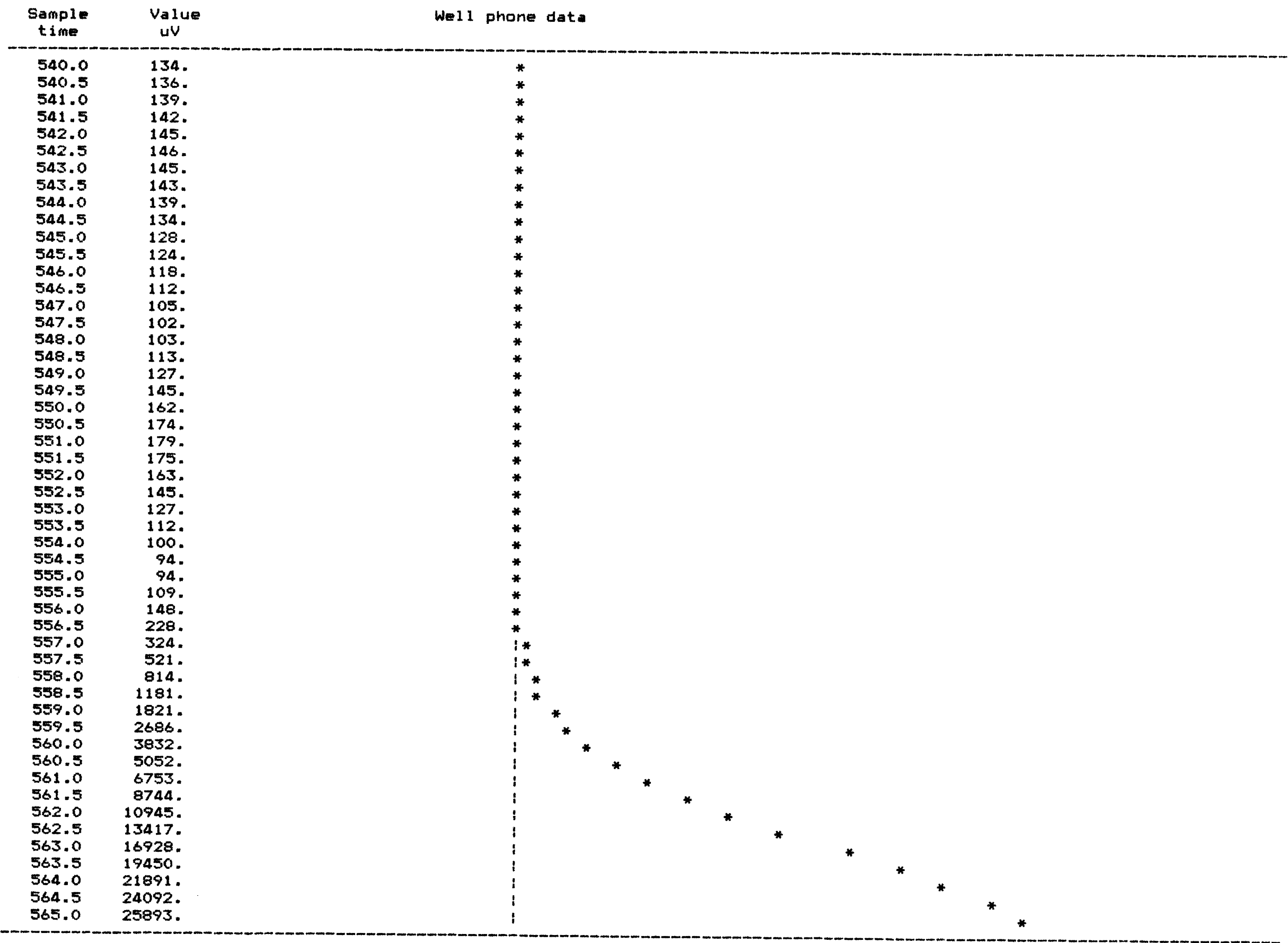


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 28.214

FIRST ARRIVAL PLOT - Shot 25 Level 1300.0



TRACE DISPLAY.

SHOT 26 Time 00:06:46 Level : 1223.0 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 253 400 755
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 4467mV



AUX. CHANNEL 2 Max. 2021mV



AUX. CHANNEL 3 Max. 2773mV



AUX. CHANNEL 4 Max. 439mV

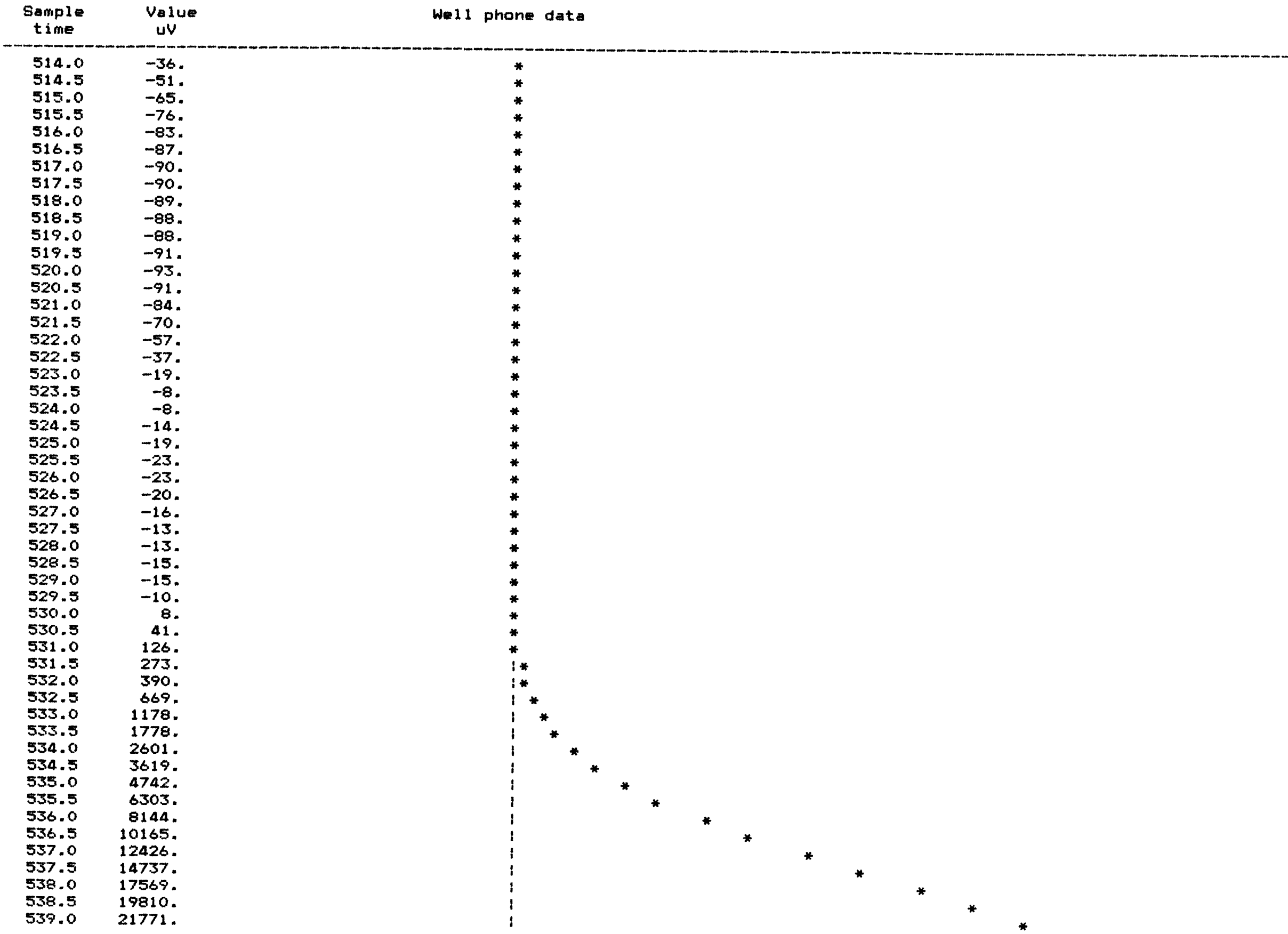


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 26.173

FIRST ARRIVAL PLOT - Shot 26 Level 1223.0



TRACE DISPLAY.

SHOT 27 Time 00:13:34 Level : 1105.1 Shot location : D
Shot depth : 1.8 Charge size : 2.0
No. surface samples : 128 Down hole sample nos : 214 400 794
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 4599mV



AUX. CHANNEL 2 Max. 2978mV



AUX. CHANNEL 3 Max. 2705mV



AUX. CHANNEL 4 Max. 473mV

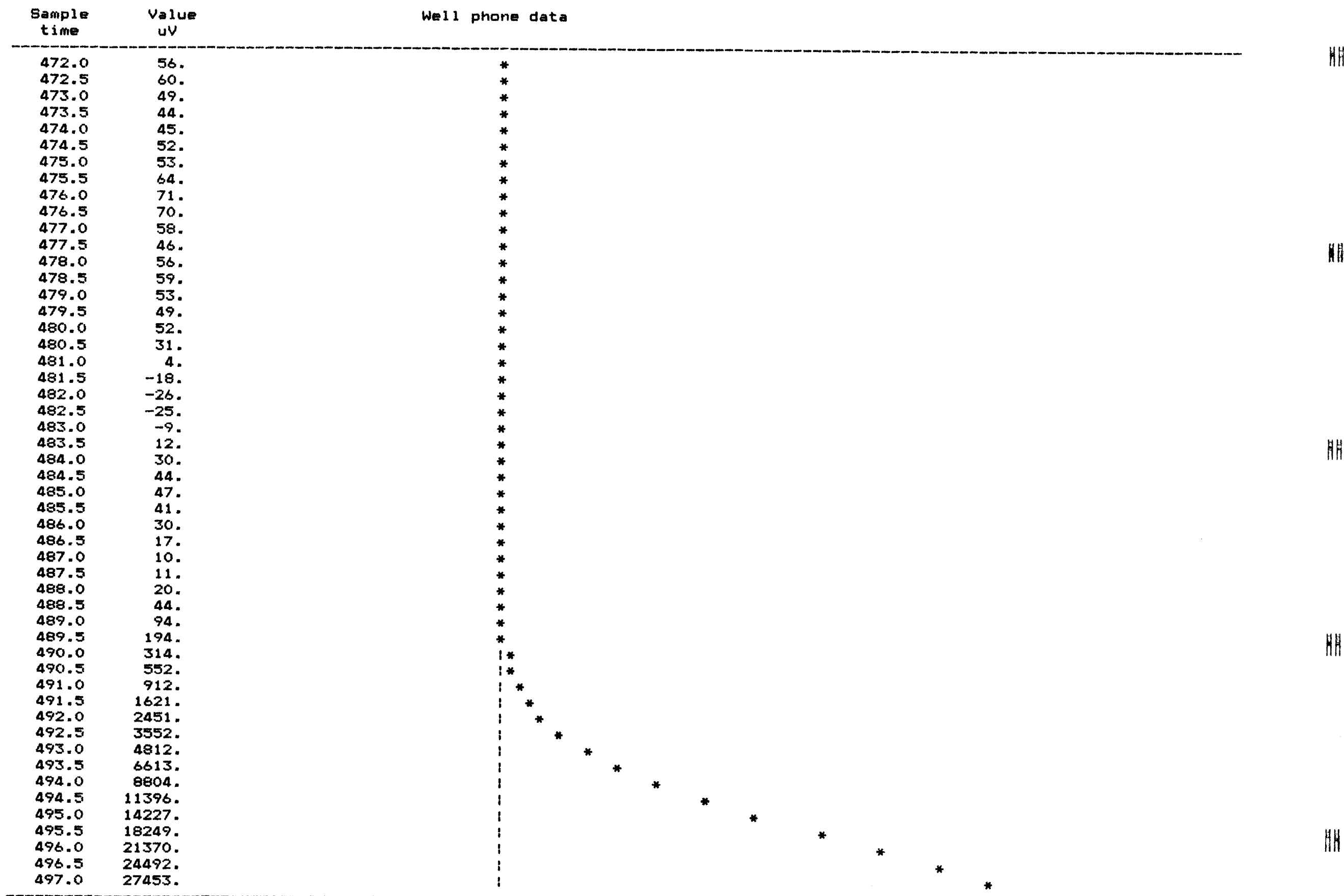


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 36.938

FIRST ARRIVAL PLOT - Shot 27 Level 1105.1



TRACE DISPLAY.

SHOT 28 Time 00:22:37 Level : 875.1 Shot location : D
Shot depth : 1.8 Charge size : 1.0
No. surface samples : 128 Down hole sample nos : 137 400 871
Sample rates : 500 1000 usec Delay : 0

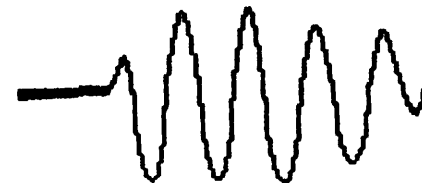
AUX. CHANNEL 1 Max. 2754mV



AUX. CHANNEL 2 Max. 2583mV



AUX. CHANNEL 3 Max. 1796mV



AUX. CHANNEL 4 Max. 341mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 38.139

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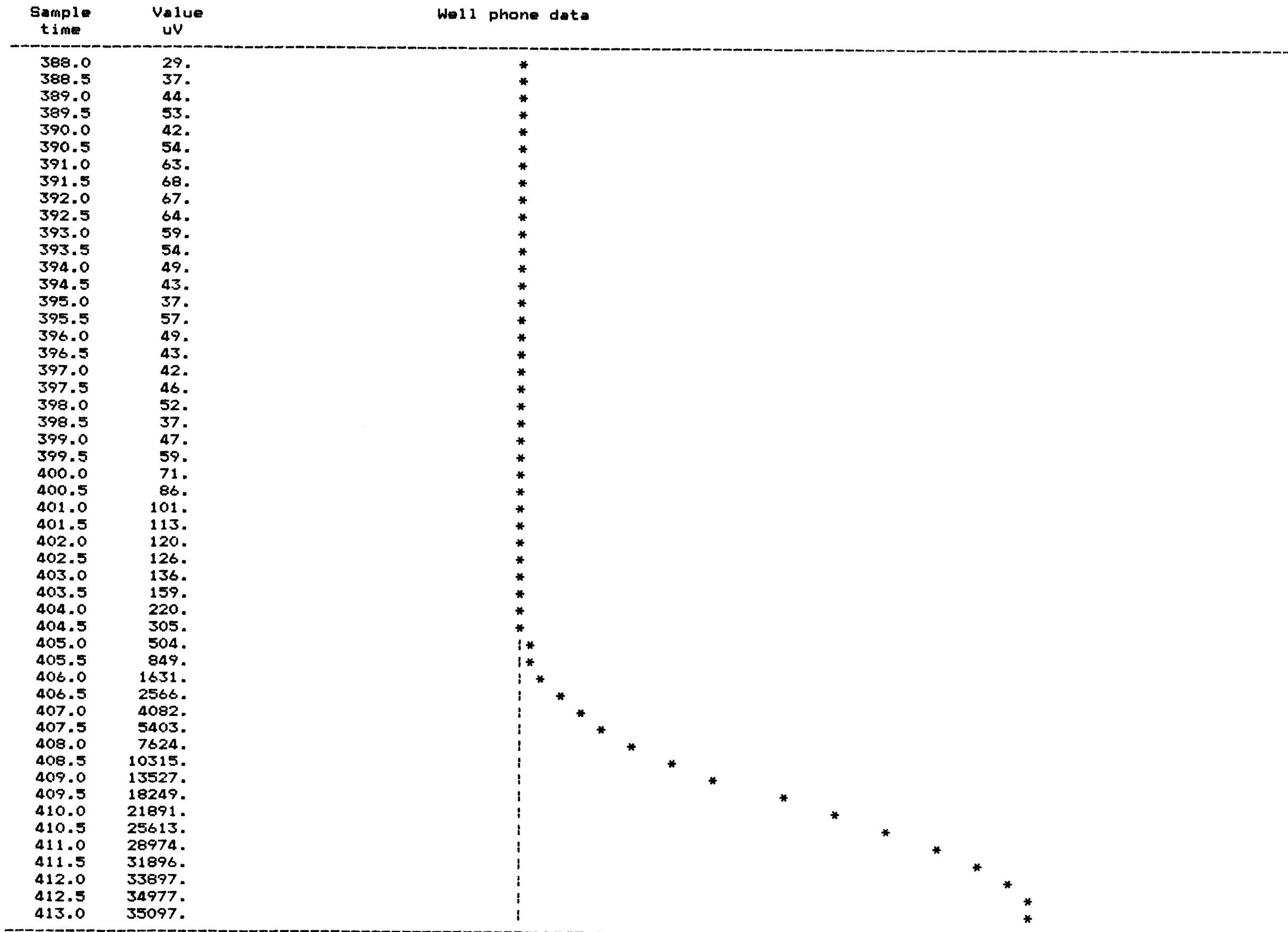
HH

HH

HH

HH

FIRST ARRIVAL PLOT - Shot 28 Level 875.1



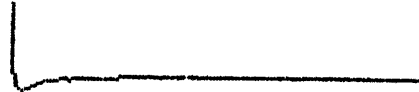
TRACE DISPLAY.

SHOT 29 Time 00:28:07 Level : 741.0 Shot location : D
Shot depth : 1.8 Charge size : 1.0
No. surface samples : 128 Down hole sample nos : 86 400 922
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 2954mV



AUX. CHANNEL 2 Max. 2817mV



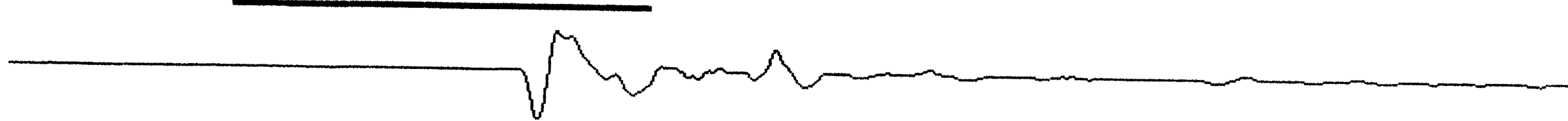
AUX. CHANNEL 3 Max. 2011mV



AUX. CHANNEL 4 Max. 341mV



WELL PHONE CHANNEL - floating point amplifier



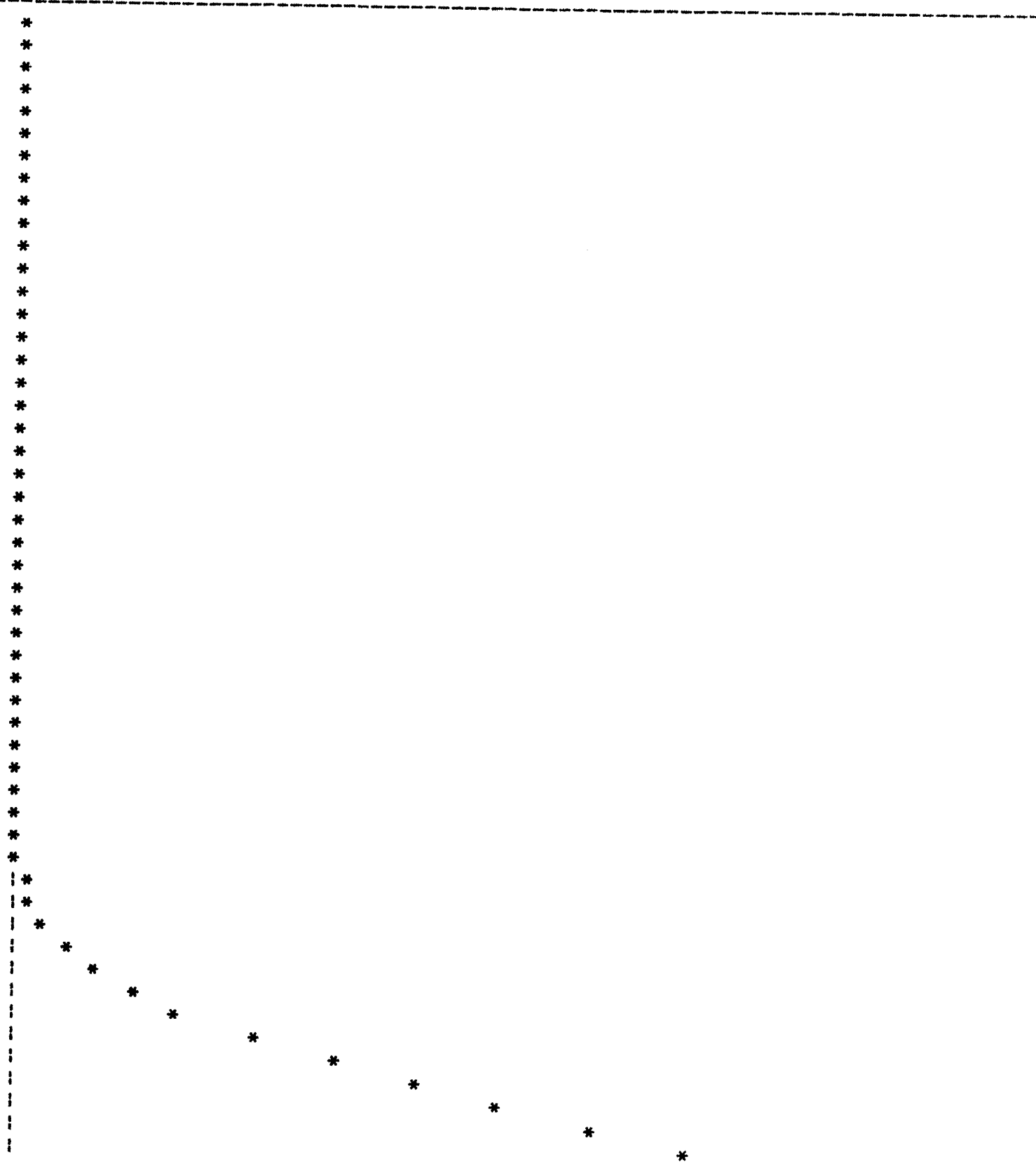
Data maximum (mV) : down hole channel - 69.314

FIRST ARRIVAL PLOT - Shot 29 Level 741.0

Sample time Value uV

Well phone data

334.0	-141.
334.5	-117.
335.0	-103.
335.5	-101.
336.0	-108.
336.5	-125.
337.0	-151.
337.5	-186.
338.0	-224.
338.5	-250.
339.0	-274.
339.5	-281.
340.0	-268.
340.5	-243.
341.0	-211.
341.5	-193.
342.0	-181.
342.5	-165.
343.0	-141.
343.5	-106.
344.0	-42.
344.5	6.
345.0	31.
345.5	51.
346.0	35.
346.5	40.
347.0	47.
347.5	56.
348.0	64.
348.5	64.
349.0	49.
349.5	54.
350.0	41.
350.5	33.
351.0	54.
351.5	98.
352.0	221.
352.5	374.
353.0	700.
353.5	1493.
354.0	2559.
354.5	4312.
355.0	5963.
355.5	8864.
356.0	12626.
356.5	18809.
357.0	24412.
357.5	30655.
358.0	37578.
358.5	44622.
359.0	51505.



TRACE DISPLAY.

SHOT 30 Time 00:34:07 Level : 676.0 Shot location : D
Shot depth : 1.8 Charge size : 1.0
No. surface samples : 128 Down hole sample nos : 62 400 946
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 1674mV



AUX. CHANNEL 2 Max. 2548mV



AUX. CHANNEL 3 Max. 1416mV



AUX. CHANNEL 4 Max. 200mV

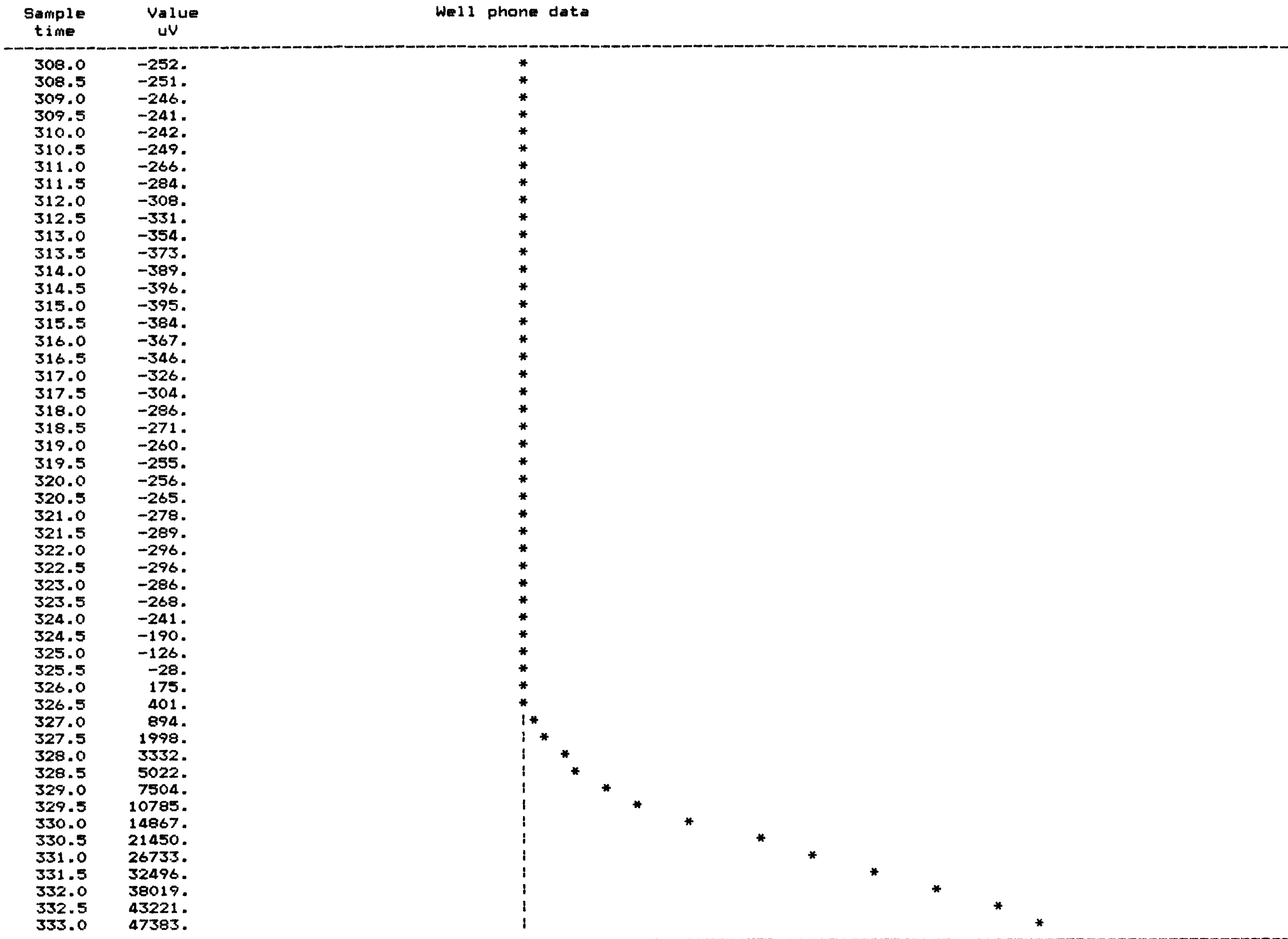


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 51.385

FIRST ARRIVAL PLOT - Shot 30 Level 676.0



TRACE DISPLAY.

SHOT 31 Time 00:39:24 Level : 550.0 Shot location : D
Shot depth : 1.8 Charge size : 0.5
No. surface samples : 128 Down hole sample nos : 14 400 994
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 1503mV



AUX. CHANNEL 2 Max. 2890mV



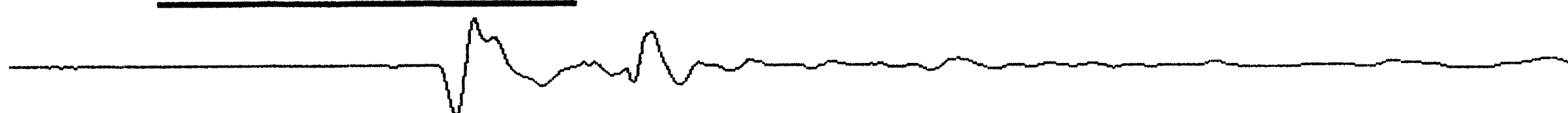
AUX. CHANNEL 3 Max. 966mV



AUX. CHANNEL 4 Max. 239mV



WELL PHONE CHANNEL - floating point amplifier



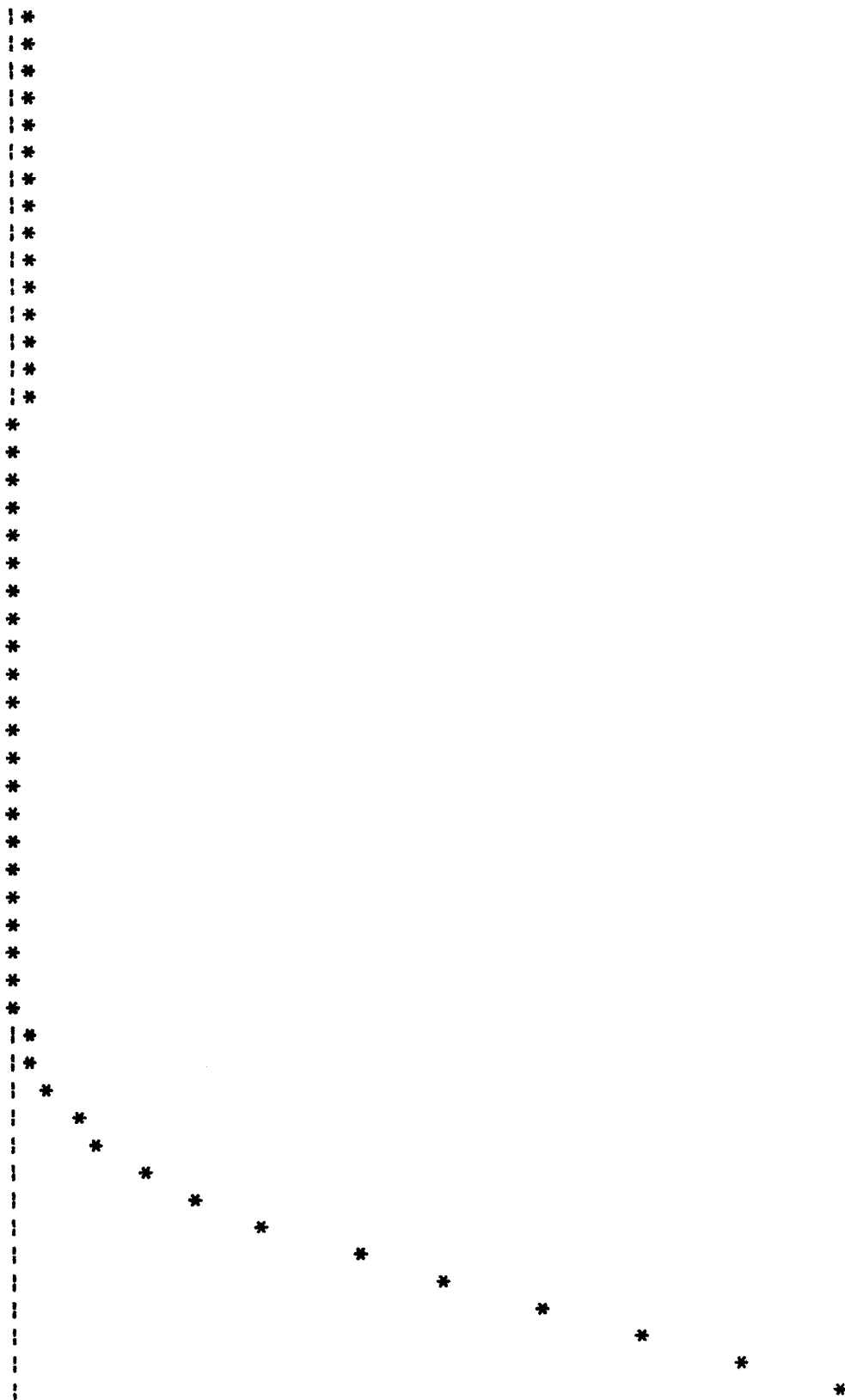
Data maximum (mV) : down hole channel - 61.870

FIRST ARRIVAL PLOT - Shot 31 Level 550.0

Sample
time Value
uV

Well phone data

258.0 904.
258.5 835.
259.0 769.
259.5 708.
260.0 657.
260.5 618.
261.0 592.
261.5 582.
262.0 583.
262.5 594.
263.0 607.
263.5 612.
264.0 603.
264.5 573.
265.0 519.
265.5 440.
266.0 337.
266.5 186.
267.0 39.
267.5 -48.
268.0 -197.
268.5 -278.
269.0 -376.
269.5 -453.
270.0 -506.
270.5 -537.
271.0 -544.
271.5 -530.
272.0 -500.
272.5 -459.
273.0 -413.
273.5 -363.
274.0 -309.
274.5 -247.
275.0 -132.
275.5 14.
276.0 290.
276.5 515.
277.0 1368.
277.5 2311.
278.0 3677.
278.5 5373.
279.0 7824.
279.5 11025.
280.0 14987.
280.5 21130.
281.0 26333.
281.5 32176.
282.0 38139.
282.5 44182.
283.0 49784.



HH

HH

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TRACE DISPLAY.

SHOT 32 Time 00:43:53 Level : 447.0 Shot location : D
Shot depth : 1.8 Charge size : 0.5
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 1782mV



AUX. CHANNEL 2 Max. 2470mV



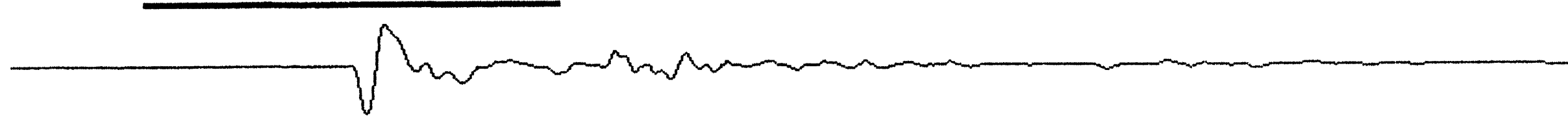
AUX. CHANNEL 3 Max. 1640mV



AUX. CHANNEL 4 Max. 209mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 131.104

HH

HH

HH

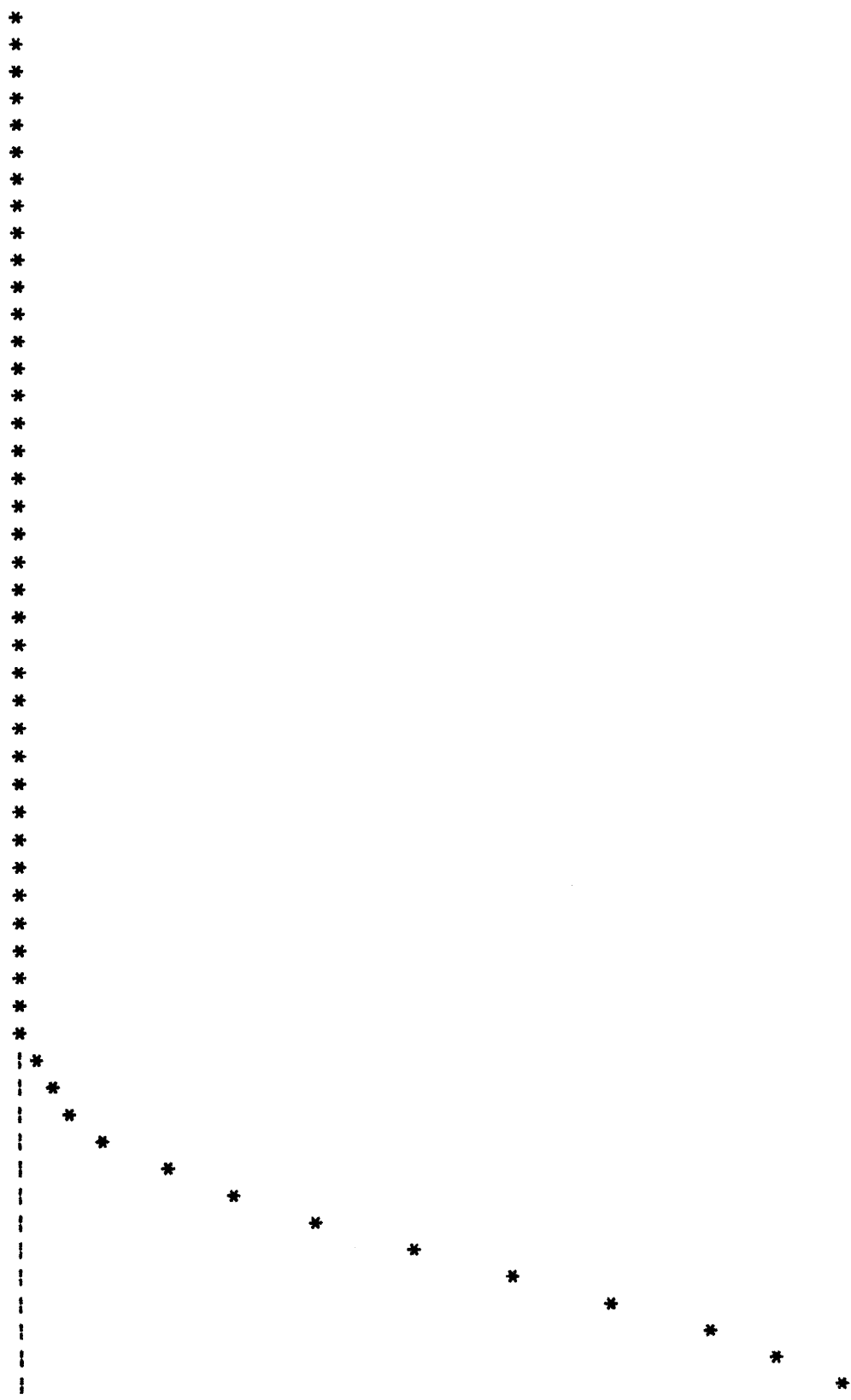
HH

HH

FIRST ARRIVAL PLOT - Shot 32 Level 447.0

Sample time Value Well phone data
 uV

210.0 309.
 210.5 270.
 211.0 208.
 211.5 154.
 212.0 103.
 212.5 53.
 213.0 37.
 213.5 8.
 214.0 -5.
 214.5 2.
 215.0 16.
 215.5 55.
 216.0 106.
 216.5 167.
 217.0 221.
 217.5 251.
 218.0 275.
 218.5 274.
 219.0 249.
 219.5 189.
 220.0 119.
 220.5 28.
 221.0 -27.
 221.5 -139.
 222.0 -220.
 222.5 -268.
 223.0 -320.
 223.5 -348.
 224.0 -352.
 224.5 -335.
 225.0 -301.
 225.5 -253.
 226.0 -181.
 226.5 -109.
 227.0 -17.
 227.5 169.
 228.0 398.
 228.5 1248.
 229.0 2561.
 229.5 4462.
 230.0 7924.
 230.5 13196.
 231.0 23291.
 231.5 33456.
 232.0 45742.
 232.5 60350.
 233.0 77638.
 233.5 92765.
 234.0 107413.
 234.5 118938.
 235.0 128063.



HH
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TRACE DISPLAY.

SHOT 33 Time 00:48:16 Level : 384.0 Shot location : D
Shot depth : 1.8 Charge size : 0.5
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 1943mV



AUX. CHANNEL 2 Max. 2417mV



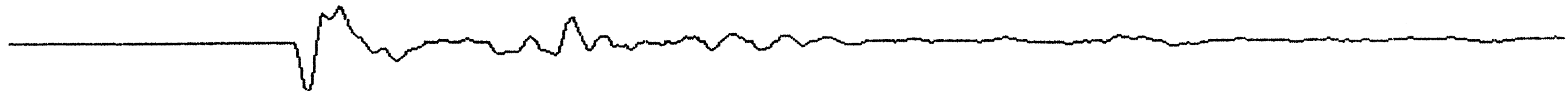
AUX. CHANNEL 3 Max. 1010mV



AUX. CHANNEL 4 Max. 356mV



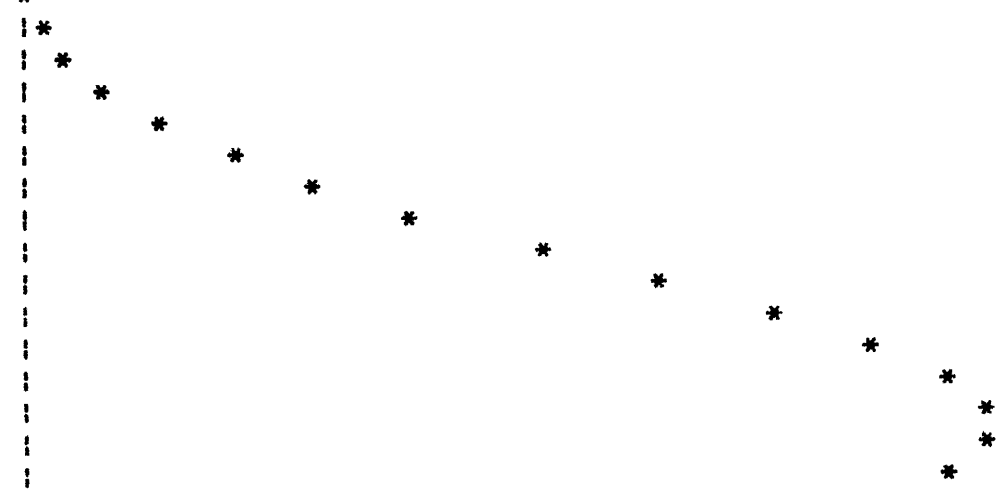
WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 138.788

FIRST ARRIVAL PLOT - Shot 33 Level 384.0

Sample time	Value uV	Well phone data
184.0	620.	*
184.5	840.	*
185.0	1266.	*
185.5	1431.	*
186.0	1526.	*
186.5	1541.	*
187.0	1471.	*
187.5	1331.	*
188.0	1136.	*
188.5	784.	*
189.0	515.	*
189.5	149.	*
190.0	-137.	*
190.5	-321.	*
191.0	-517.	*
191.5	-644.	*
192.0	-693.	*
192.5	-672.	*
193.0	-595.	*
193.5	-476.	*
194.0	-328.	*
194.5	-116.	*
195.0	42.	*
195.5	222.	*
196.0	330.	*
196.5	445.	*
197.0	512.	*
197.5	520.	*
198.0	471.	*
198.5	375.	*
199.0	244.	*
199.5	63.	*
200.0	-16.	*
200.5	18.	*
201.0	396.	*
201.5	893.	*
202.0	3164.	*
202.5	5873.	*
203.0	10445.	*
203.5	19770.	*
204.0	29695.	*
204.5	41660.	*
205.0	56428.	*
205.5	74757.	*
206.0	91405.	*
206.5	107493.	*
207.0	121579.	*
207.5	133505.	*
208.0	138788.	*
208.5	138788.	*
209.0	132865.	*



TRACE DISPLAY.

SHOT 34 Time 00:53:58 Level : 352.0 Shot location : D
Shot depth : 1.8 Charge size : 0.5
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 1855mV



AUX. CHANNEL 2 Max. 1723mV



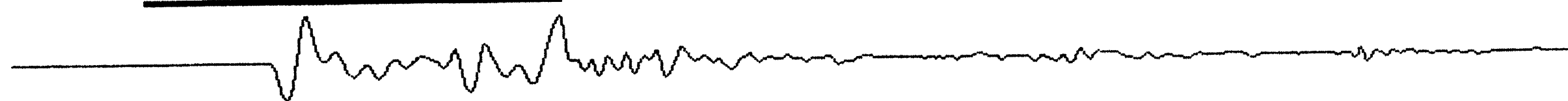
AUX. CHANNEL 3 Max. 893mV



AUX. CHANNEL 4 Max. 234mV



WELL PHONE CHANNEL - floating point amplifier



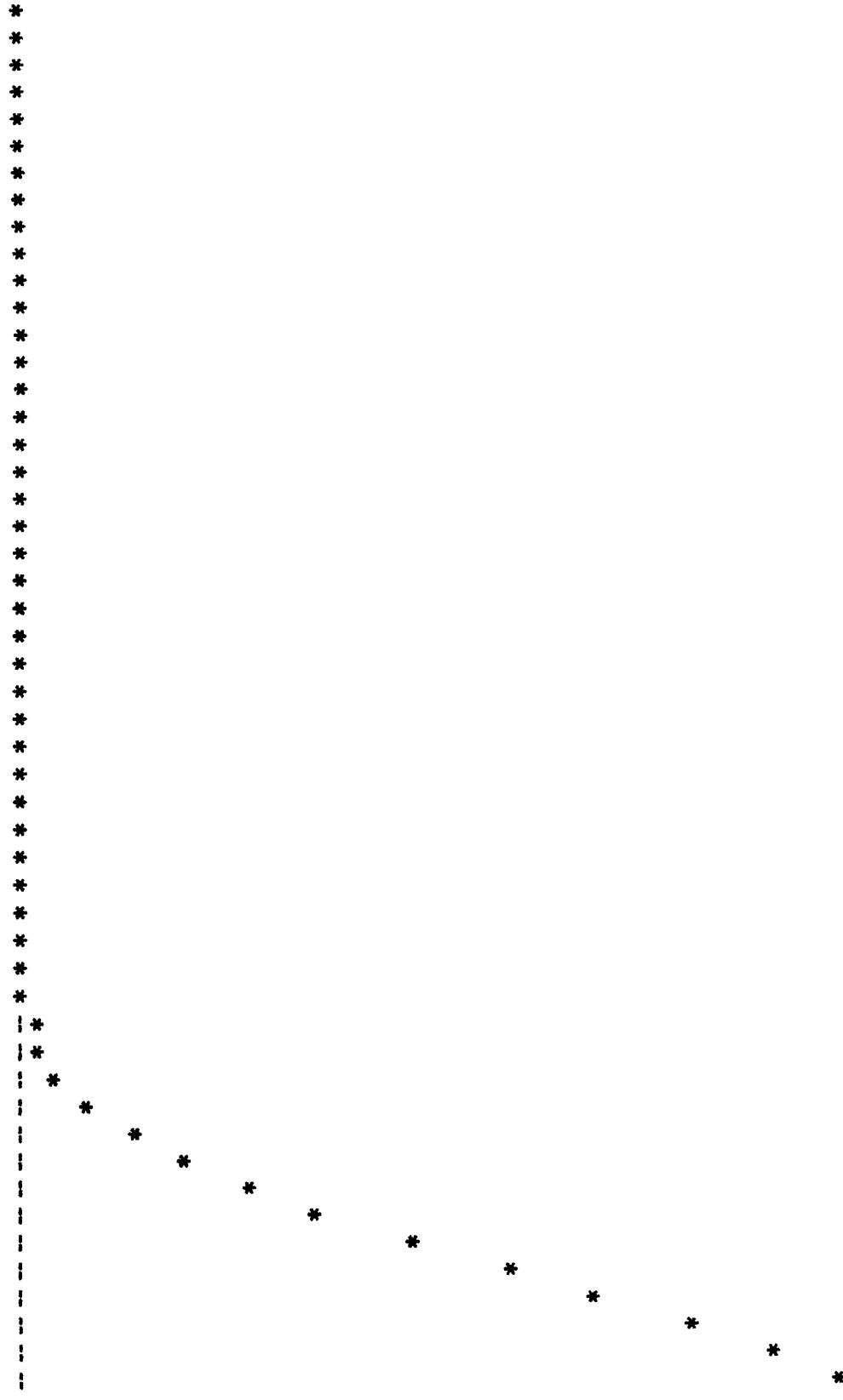
Data maximum (mV) : down hole channel - 196.576

FIRST ARRIVAL PLOT - Shot 34 Level 352.0

Sample time Value uV

Well phone data

170.0 403.
 170.5 398.
 171.0 386.
 171.5 366.
 172.0 343.
 172.5 316.
 173.0 285.
 173.5 250.
 174.0 199.
 174.5 153.
 175.0 105.
 175.5 47.
 176.0 5.
 176.5 -54.
 177.0 -146.
 177.5 -232.
 178.0 -296.
 178.5 -385.
 179.0 -461.
 179.5 -520.
 180.0 -558.
 180.5 -572.
 181.0 -560.
 181.5 -525.
 182.0 -466.
 182.5 -391.
 183.0 -301.
 183.5 -178.
 184.0 -84.
 184.5 20.
 185.0 71.
 185.5 129.
 186.0 182.
 186.5 273.
 187.0 357.
 187.5 621.
 188.0 1348.
 188.5 2501.
 189.0 4102.
 189.5 6933.
 190.0 11125.
 190.5 19089.
 191.0 27453.
 191.5 38099.
 192.0 50625.
 192.5 66513.
 193.0 82360.
 193.5 97968.
 194.0 113175.
 194.5 128543.
 195.0 139588.



TRACE DISPLAY.

SHOT 35 Time 01:00:27 Level : 81.7 Shot location : D
Shot depth : 1.8 Charge size : G,DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 644mV



AUX. CHANNEL 2 Max. 2314mV



AUX. CHANNEL 3 Max. 297mV



AUX. CHANNEL 4 Max. 92mV

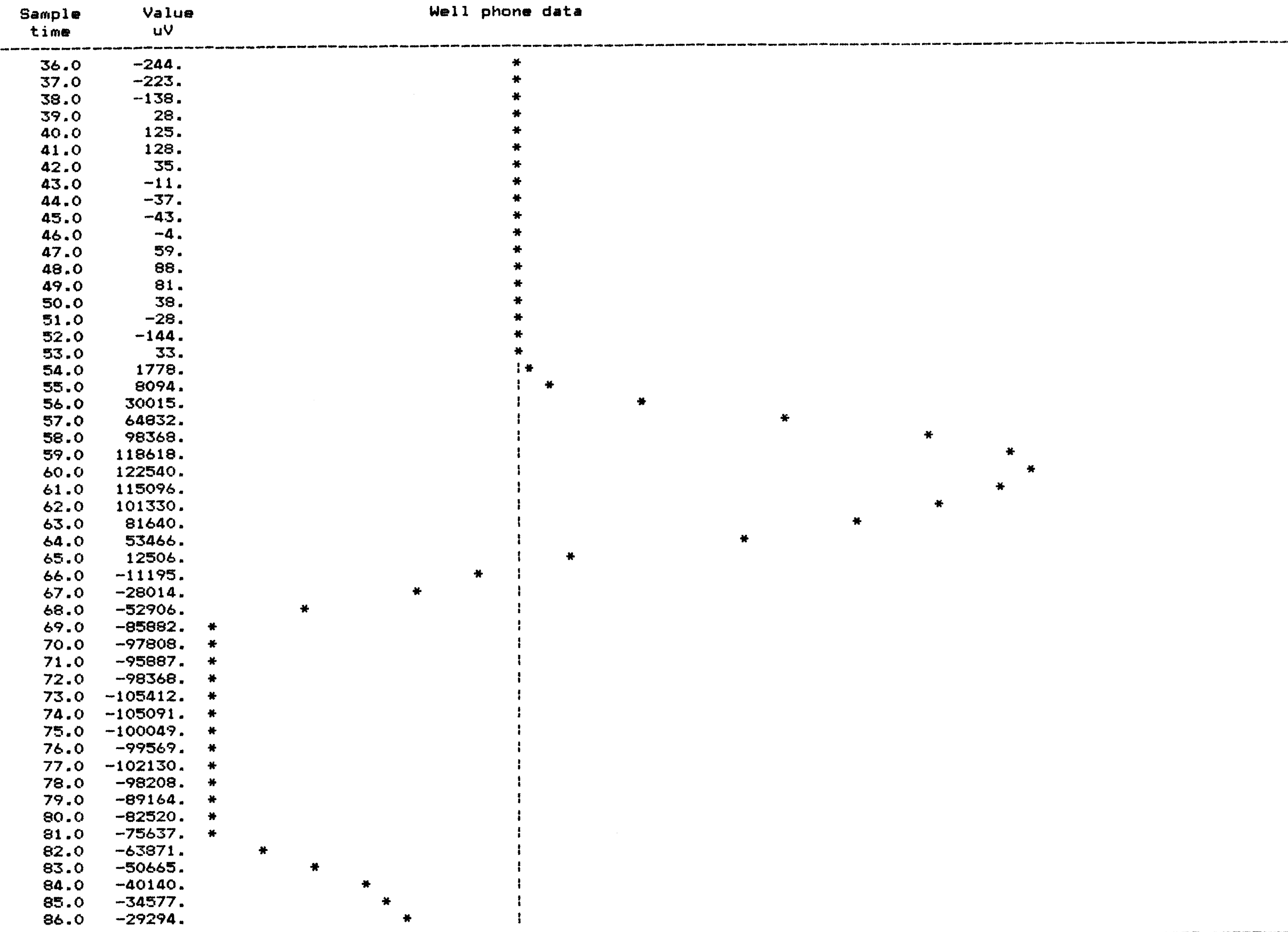


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 151.434

FIRST ARRIVAL PLOT - Shot 35 Level 81.7



TRACE DISPLAY.

SHOT 36 Time 01:03:12 Level : 81.7 Shot location : C
Shot depth : 0.1 Charge size : DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

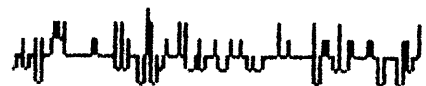
AUX. CHANNEL 1 Max. 92mV



AUX. CHANNEL 2 Max. 9443mV



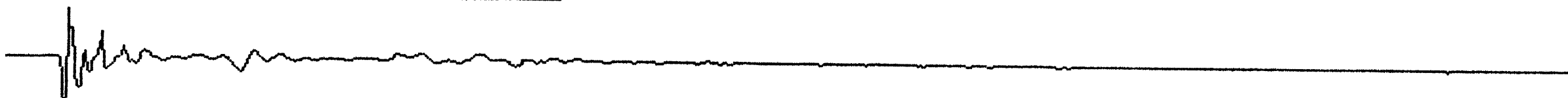
AUX. CHANNEL 3 Max. 24mV



AUX. CHANNEL 4 Max. 29mV

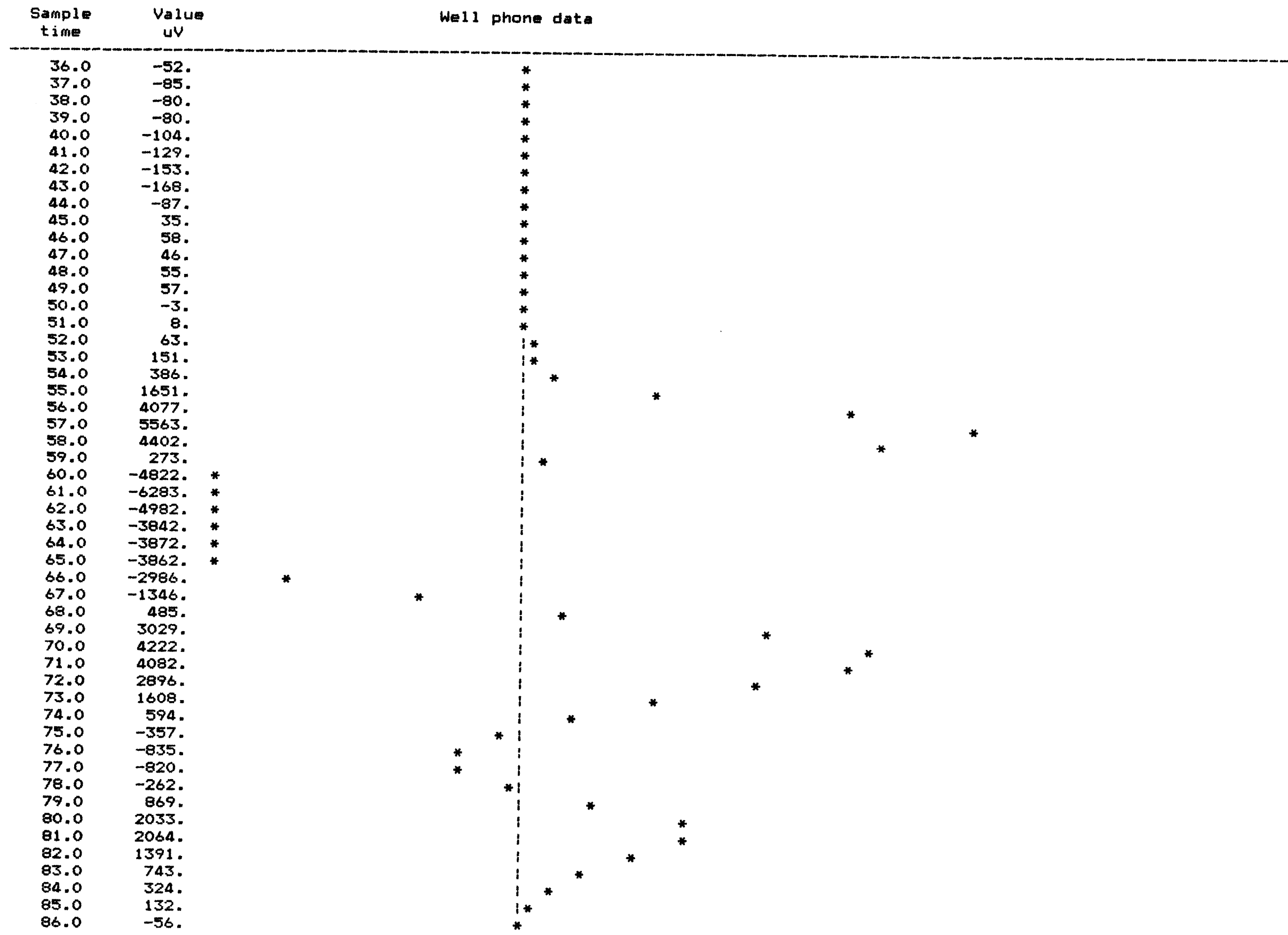


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 6.283

FIRST ARRIVAL PLOT - Shot 36 Level 81.7



TRACE DISPLAY.

SHOT 37 Time 01:04:58 Level : 81.7 Shot location : B
Shot depth : 0.1 Charge size : DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

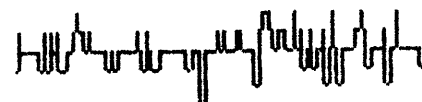
AUX. CHANNEL 1 Max. 566mV



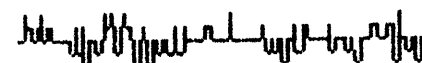
AUX. CHANNEL 2 Max. 10000mV



AUX. CHANNEL 3 Max. 19mV



AUX. CHANNEL 4 Max. 29mV

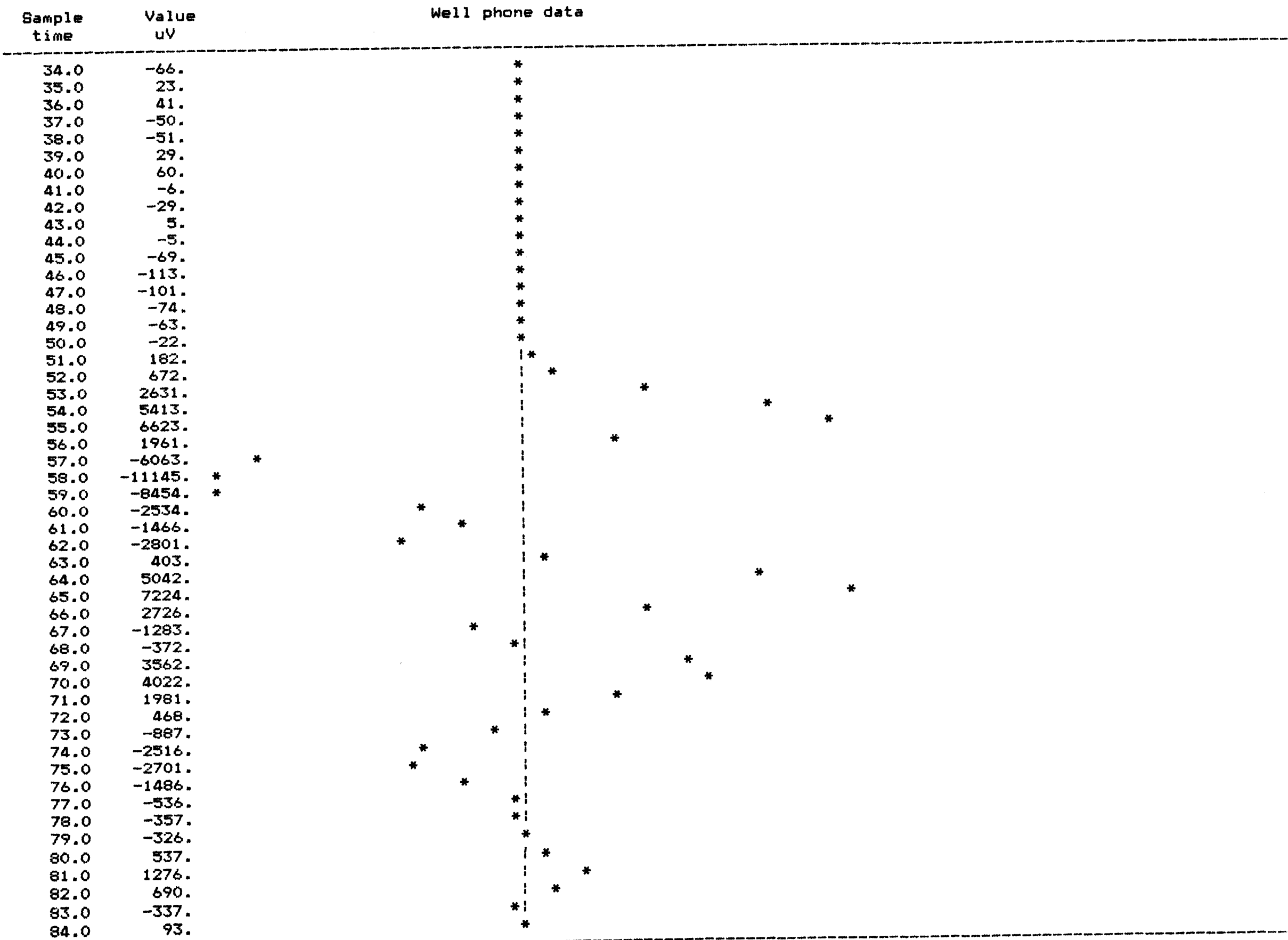


WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 8.454

FIRST ARRIVAL PLOT - Shot 37 Level 81.7



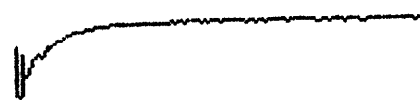
TRACE DISPLAY.

SHOT 38 Time 01:06:28 Level : 81.7 Shot location : A
Shot depth : 0.1 Charge size : DET
No. surface samples : 128 Down hole sample nos : 0 400 1008
Sample rates : 500 1000 usec Delay : 0

AUX. CHANNEL 1 Max. 10000mV



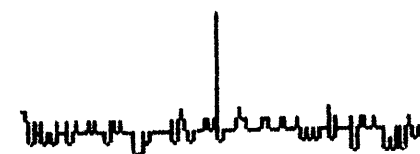
AUX. CHANNEL 2 Max. 419mV



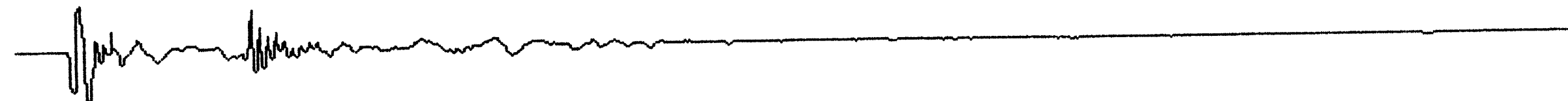
AUX. CHANNEL 3 Max. 24mV



AUX. CHANNEL 4 Max. 34mV



WELL PHONE CHANNEL - floating point amplifier



Data maximum (mV) : down hole channel - 12.736

FIRST ARRIVAL PLOT - Shot 38 Level 81.7

