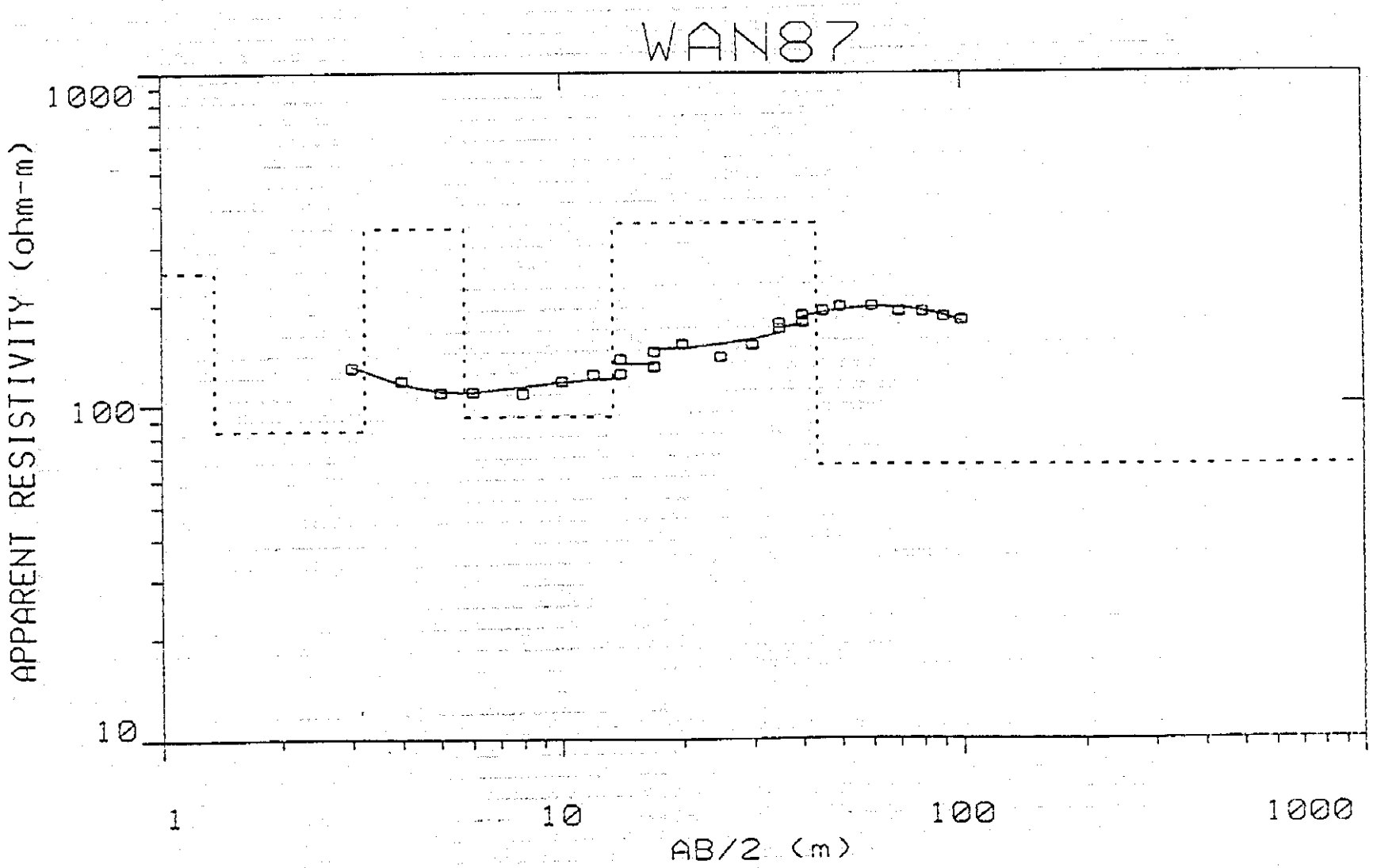
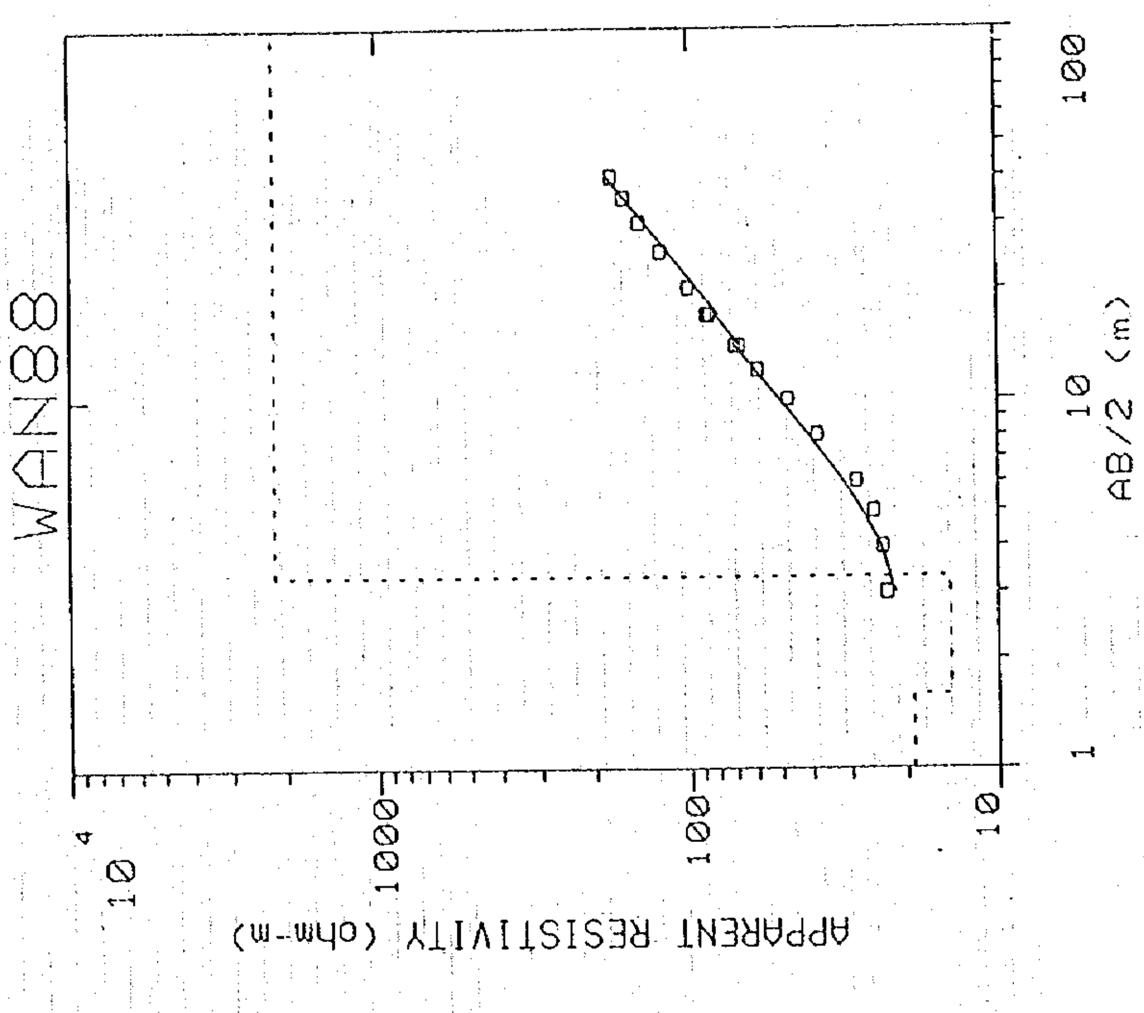

WAN87
1000
100
10
APPARENT RESISTIVITY (ohm-m)
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	36.6	20.0	1.83	2.00	23.0
4.00	20.1	20.0	1.00	2.00	23.6
5.00	13.4	20.0	.670	2.00	25.2
6.00	26.1	50.0	.522	2.00	28.7
8.00	19.4	50.0	.388	2.00	38.4
10.0	15.3	50.0	.306	2.00	47.6
12.0	13.2	50.0	.264	2.00	59.3
14.0	11.5	50.0	.230	2.00	70.4
14.0	34.7	50.0	.694	6.00	67.9
17.0	9.72	50.0	.194	2.00	87.9
17.0	29.3	50.0	.586	6.00	85.9
20.0	24.6	50.0	.492	6.00	100.
25.0	19.1	50.0	.382	6.00	123.
30.0	30.7	100.	.307	6.00	143.
35.0	25.1	100.	.251	6.00	159.
40.0	21.0	100.	.210	6.00	175.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	19.03	1.59	-1.59	0.0838	30.37
2	14.36	1.72	-3.31	0.119	24.71
3	2191.5				

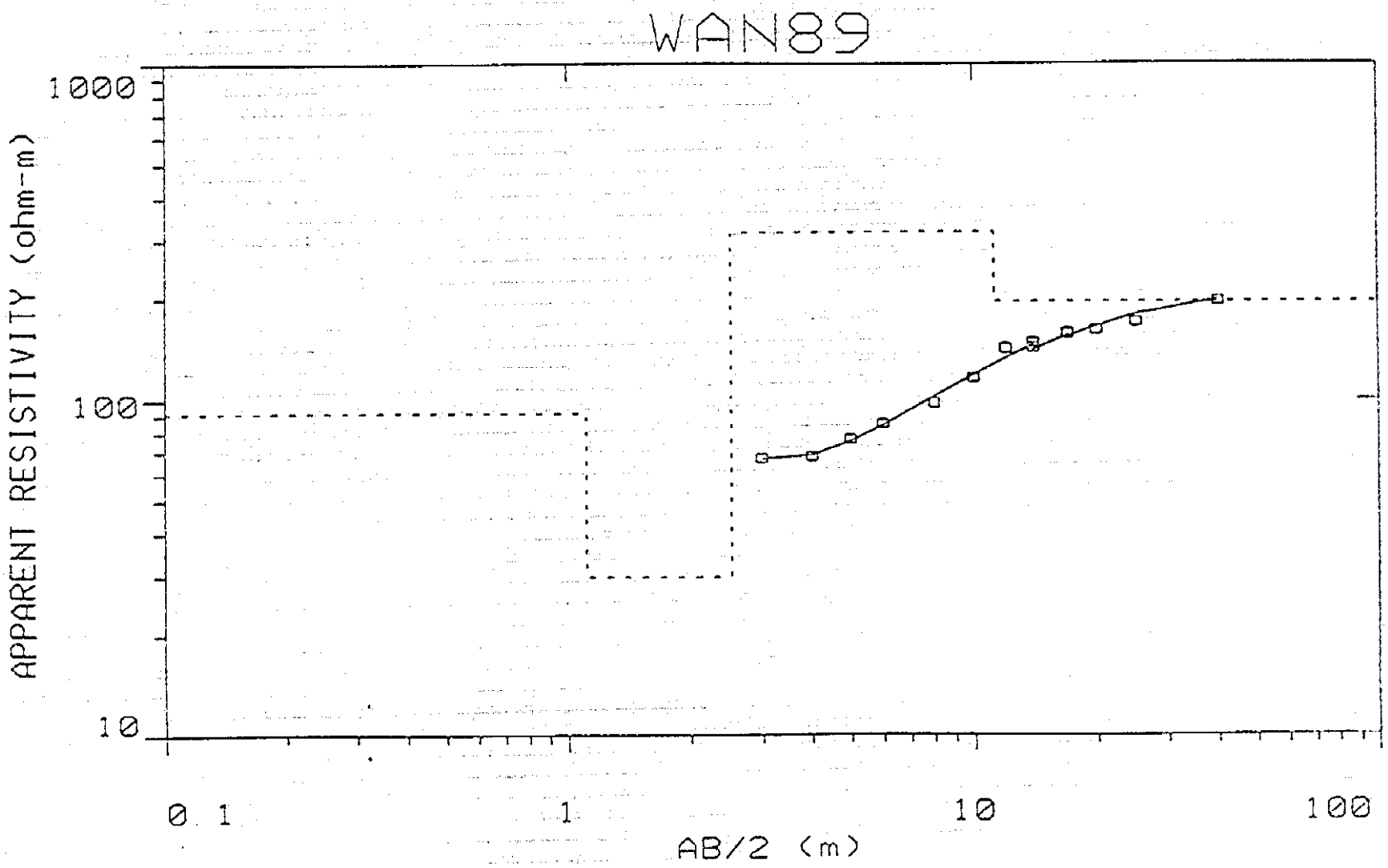

WAN88
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
10
AB/2 (m)
1
10
100

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	106.	20.0	5.30	2.00	66.6
4.00	57.3	20.0	2.86	2.00	67.5
5.00	40.3	20.0	2.01	2.00	76.0
6.00	30.7	20.0	1.53	2.00	84.4
8.00	19.7	20.0	.985	2.00	97.5
10.0	14.9	20.0	.745	2.00	115.
12.0	12.6	20.0	.630	2.00	141.
14.0	9.61	20.0	.480	2.00	147.
14.0	29.1	20.0	1.45	6.00	142.
17.0	17.4	50.0	.348	2.00	157.
17.0	53.3	50.0	1.06	6.00	156.
20.0	39.3	50.0	.786	6.00	161.
25.0	26.3	50.0	.526	6.00	169.
40.0	47.1	200.	.235	6.00	196.

---------- Apparent Resistivity Model ---------- PAGE 1

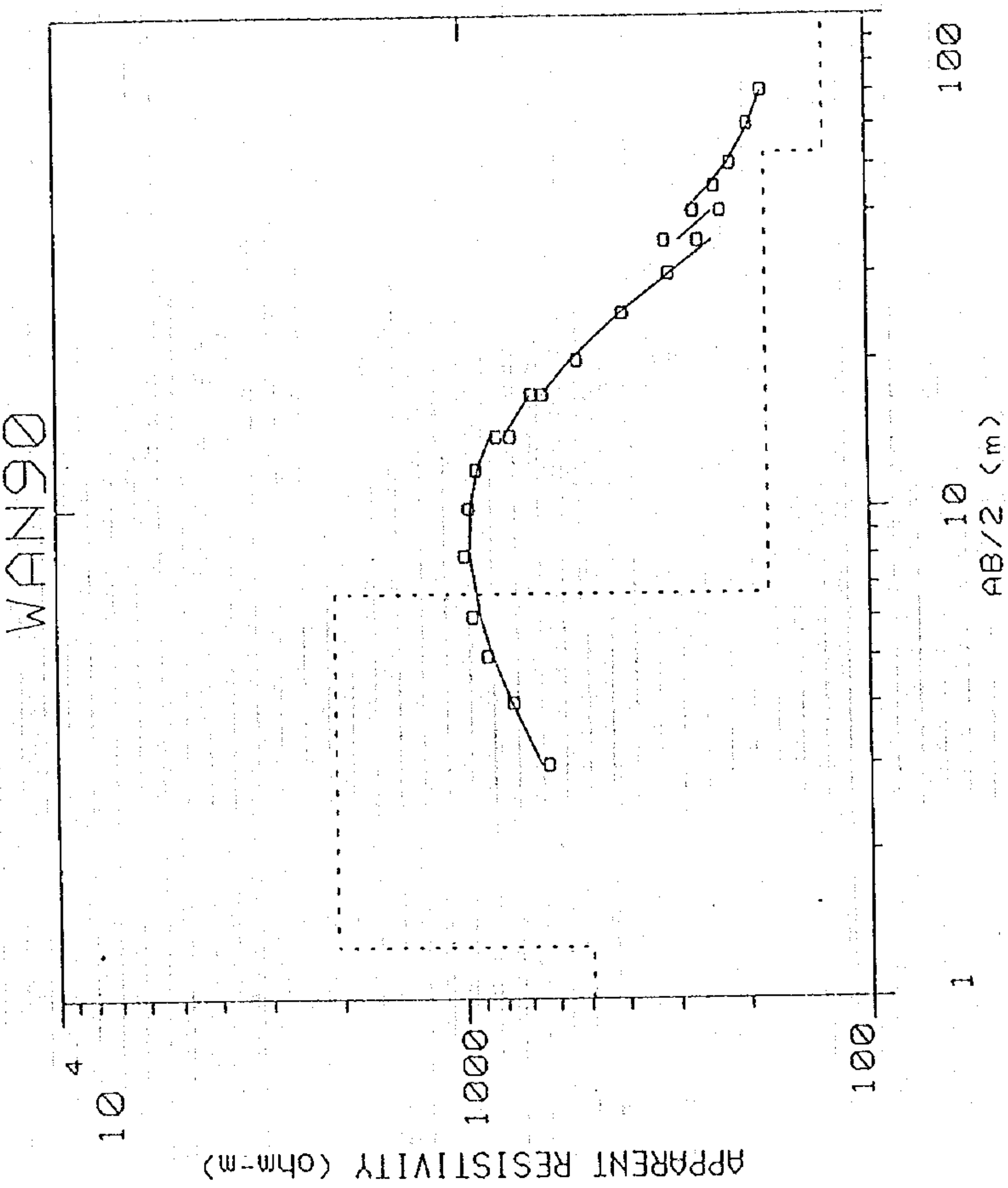
L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	91.53	1.10	-1.10	0.0121	101.5
2	29.82	1.41	-2.52	0.0473	42.15
3	317.4	8.75	-11.28	0.0275	2780.8
4	195.5				


WAN89
1000
100
10
APPARENT RESISTIVITY (ohm-m)
0.1
1
10
100
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	1009.	20.0	50.4	2.00	634.
4.00	650.	20.0	32.5	2.00	766.
5.00	467.	20.0	23.3	2.00	880.
6.00	347.	20.0	17.3	2.00	954.
8.00	202.	20.0	10.1	2.00	999.5
10.0	125.	20.0	6.25	2.00	972.
12.0	82.8	20.0	4.14	2.00	930.
14.0	54.1	20.0	2.70	2.00	828.
14.0	157.	20.0	7.85	6.00	769.
17.0	30.3	20.0	1.51	2.00	685.
17.0	87.6	20.0	4.38	6.00	642.
20.0	51.5	20.0	2.57	6.00	527.
25.0	25.0	20.0	1.25	6.00	403.
30.0	33.3	50.0	.666	6.00	310.
35.0	20.6	50.0	.412	6.00	262.
35.0	89.8	50.0	1.79	20.0	317.
40.0	13.8	50.0	.276	6.00	230.
40.0	57.0	50.0	1.14	20.0	268.
45.0	39.4	50.0	.788	20.0	238.
50.0	28.8	50.0	.576	20.0	217.
60.0	35.7	100.	.357	20.0	196.
70.0	24.1	100.	.241	20.0	181.

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	496.2	1.27	-1.27	0.00257	633.6
2	2080.4	5.41	-6.69	0.00260	11268.3
3	178.7	45.90	-52.59	0.256	8205.2
4	128.0				


WAN90
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
AB/2 (m)
1
10
100

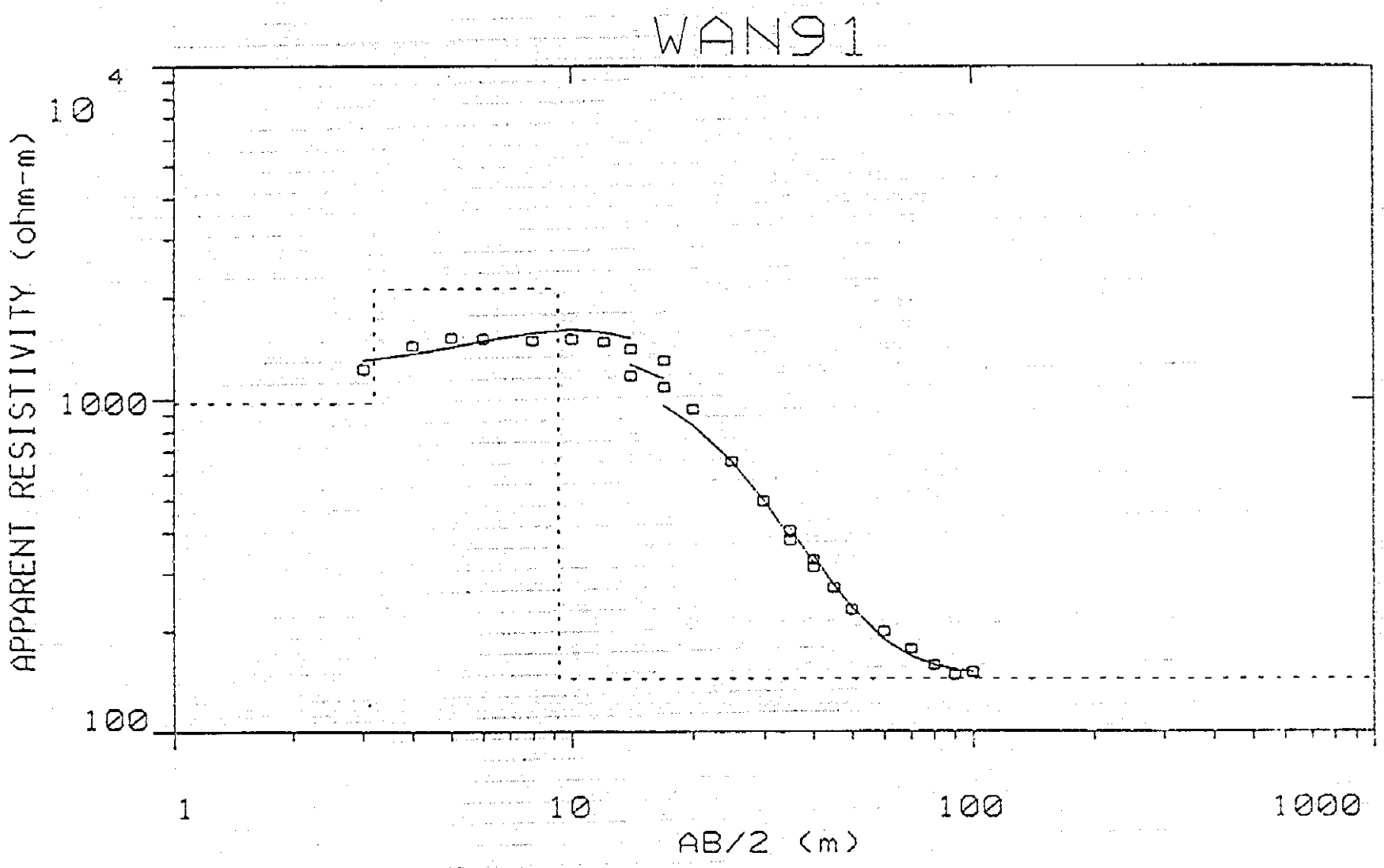
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	1949.	20.0	97.4	2.00	1224.
4.00	1218.	20.0	60.9	2.00	1435.
5.00	805.	20.0	40.2	2.00	1517.
6.00	548.	20.0	27.4	2.00	1506.
8.00	300.	20.0	15.0	2.00	1484.
10.0	193.	20.0	9.65	2.00	1500.
12.0	131.	20.0	6.55	2.00	1471.
14.0	91.3	20.0	4.56	2.00	1398.
14.0	238.	20.0	11.9	6.00	1165.
17.0	57.1	20.0	2.85	2.00	1291.
17.0	147.	20.0	7.35	6.00	1077.
20.0	90.9	20.0	4.54	6.00	930.
25.0	40.4	20.0	2.02	6.00	651.
30.0	21.2	20.0	1.06	6.00	494.
35.0	29.5	50.0	.590	6.00	375.
35.0	114.	50.0	2.28	20.0	403.
40.0	18.7	50.0	.374	6.00	311.
40.0	69.8	50.0	1.39	20.0	329.
45.0	44.7	50.0	.894	20.0	270.
50.0	30.7	50.0	.614	20.0	231.
60.0	18.1	50.0	.362	20.0	199.
70.0	23.4	100.	.234	20.0	176.
80.0	15.9	100.	.159	20.0	157.
90.0	11.7	100.	.117	20.0	147.
100.	18.9	196.	.0964	20.0	150.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	974.0	3.19	-3.19	0.00328	3111.6
2	2122.8	6.05	-9.25	0.00285	12855.4
3	143.3				

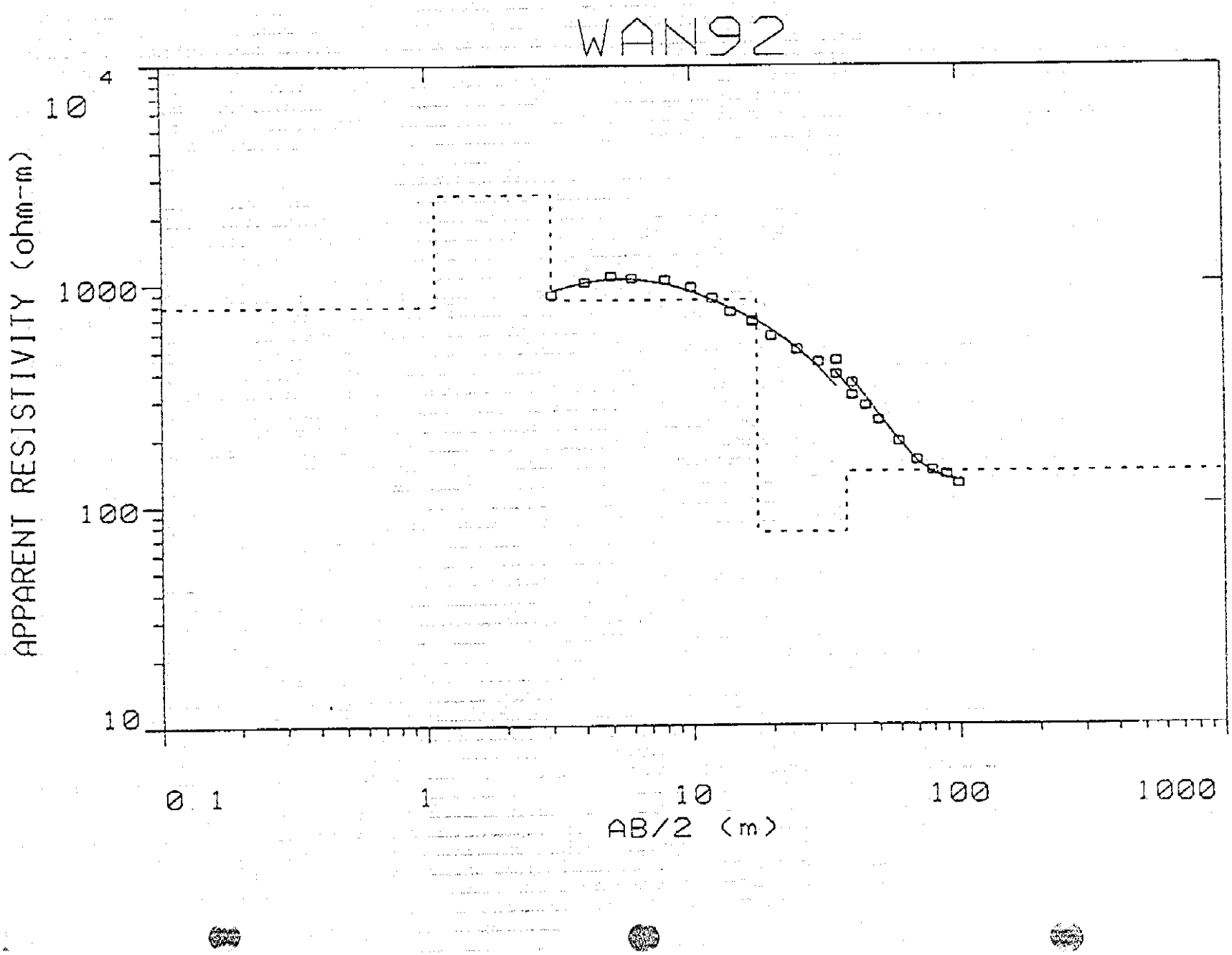
418


WAN91
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	1405.	20.0	70.2	2.00	883.
4.00	858.	20.0	42.9	2.00	1010.
5.00	570.	20.0	28.5	2.00	1074.
6.00	382.	20.0	19.1	2.00	1050.
8.00	209.	20.0	10.4	2.00	1034.
10.0	123.	20.0	6.15	2.00	956.
12.0	75.9	20.0	3.79	2.00	852.
14.0	48.3	20.0	2.41	2.00	740.
14.0	152.	20.0	7.60	6.00	744.
17.0	29.5	20.0	1.47	2.00	667.
17.0	91.9	20.0	4.59	6.00	674.
20.0	56.3	20.0	2.81	6.00	576.
25.0	31.1	20.0	1.55	6.00	501.
30.0	18.9	20.0	.945	6.00	441.
35.0	30.5	50.0	.610	6.00	388.
35.0	127.	50.0	2.54	20.0	449.
40.0	18.7	50.0	.374	6.00	311.
40.0	75.3	50.0	1.50	20.0	355.
45.0	46.3	50.0	.926	20.0	280.
50.0	31.7	50.0	.634	20.0	239.
60.0	17.4	50.0	.348	20.0	191.
70.0	21.0	100.	.210	20.0	158.
80.0	14.4	100.	.144	20.0	142.
90.0	10.9	100.	.109	20.0	137.
100.	7.97	100.	.0797	20.0	124.

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	788.9	1.08	-1.08	0.00137	854.0
2	2550.7	1.91	-2.99	7.501E-04	4880.3
3	838.3	14.65	-17.65	0.0174	12288.3
4	73.99	20.31	-37.96	0.274	1503.1
5	140.7				


WAN92
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
10
0.1
1
10
100
1000
AB/2 (m)

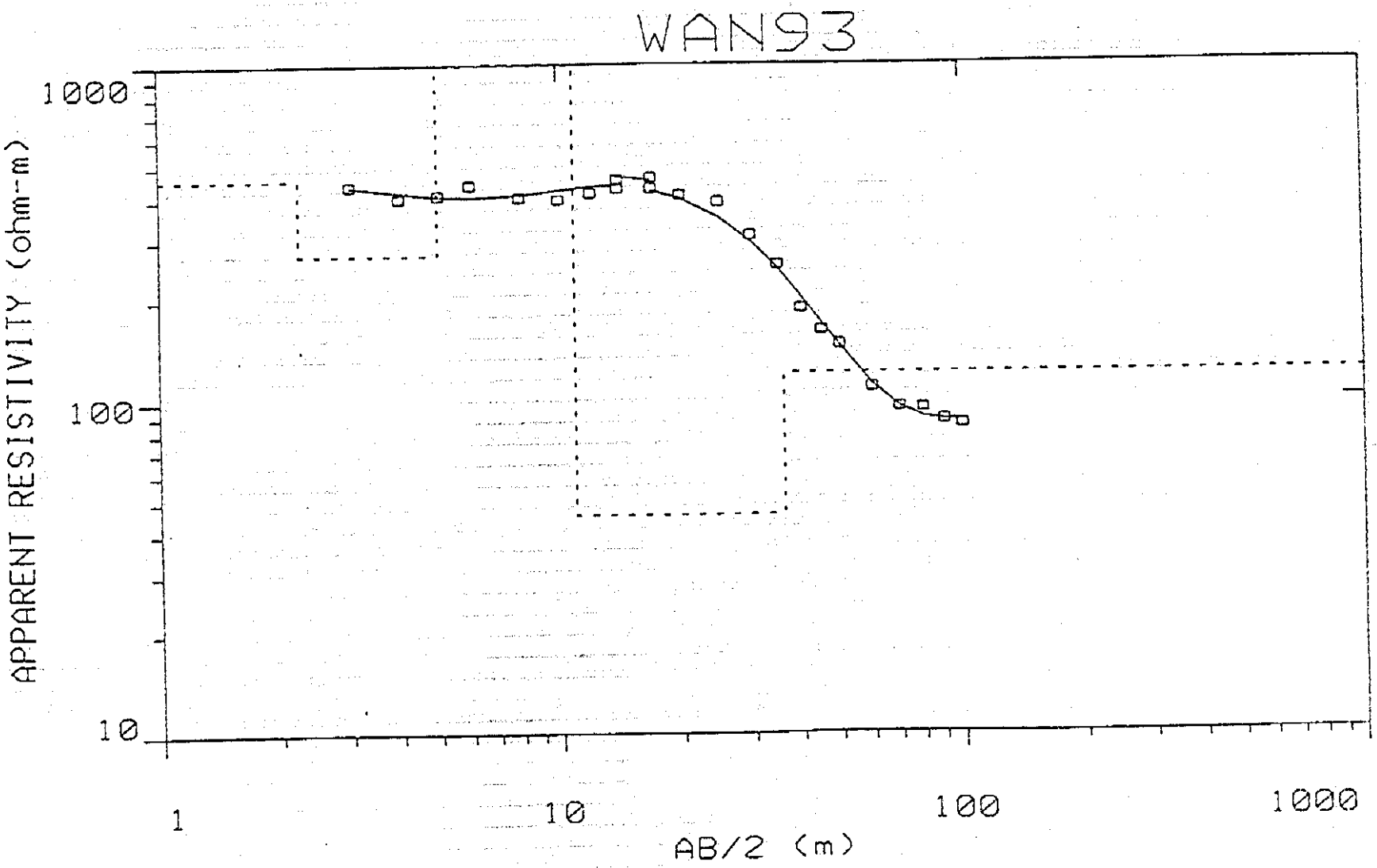
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	699.	20.0	34.9	2.00	439.
4.00	342.	20.0	17.1	2.00	403.
5.00	218.	20.0	10.9	2.00	411.
6.00	160.	20.0	8.00	2.00	440.
8.00	81.7	20.0	4.08	2.00	404.
10.0	51.2	20.0	2.56	2.00	398.
12.0	37.0	20.0	1.85	2.00	415.
14.0	28.0	20.0	1.40	2.00	429.
14.0	601.	20.0	30.0	20.0	453.
17.0	20.4	20.0	1.02	2.00	461.
17.0	289.	20.0	14.4	20.0	429.
20.0	174.	20.0	8.70	20.0	410.
25.0	94.7	20.0	4.73	20.0	390.
30.0	49.3	20.0	2.46	20.0	309.
35.0	28.6	20.0	1.43	20.0	252.
40.0	39.7	50.0	.794	20.0	187.
45.0	26.6	50.0	.532	20.0	160.
50.0	19.3	50.0	.386	20.0	145.
60.0	19.8	100.	.198	20.0	108.
70.0	12.6	100.	.126	20.0	95.0
80.0	19.0	200.	.0950	20.0	94.0
90.0	13.8	200.	.0690	20.0	86.7
100.	5.29	97.9	.0540	20.0	84.0

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	457.9	2.23	-2.23	0.00487	1022.0
2	271.5	2.74	-4.97	0.0100	744.1
3	993.6	5.97	-10.94	0.00601	5933.7
4	45.46	25.19	-36.13	0.554	1145.4
5	120.2				

420

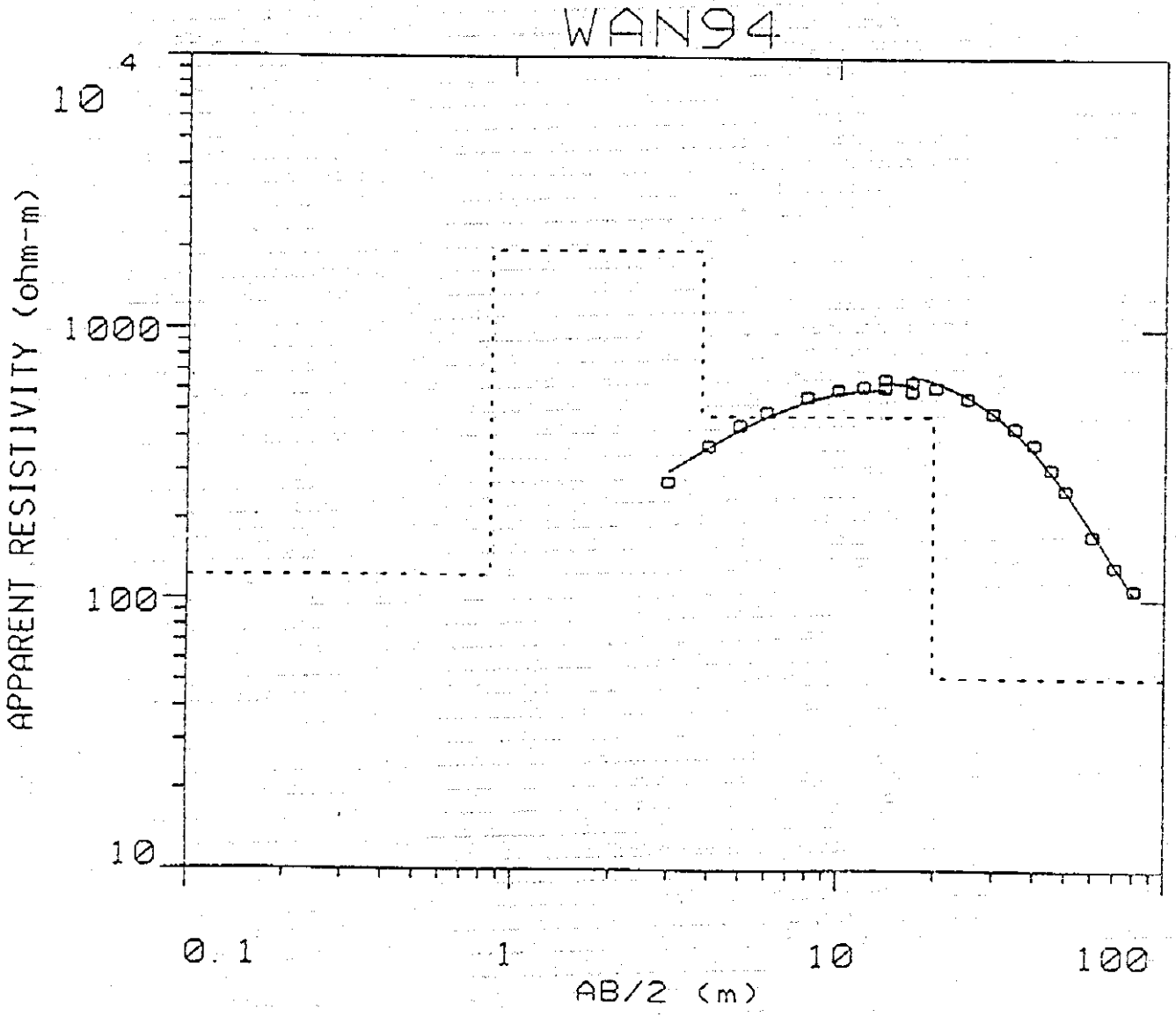

WAN93
1000
100
10
APPARENT RESISTIVITY (ohm-m)
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	436.	20.0	21.8	2.00	274.
4.00	316.	20.0	15.8	2.00	372.
5.00	235.	20.0	11.7	2.00	443.
6.00	180.	20.0	9.00	2.00	495.
8.00	114.	20.0	5.70	2.00	564.
10.0	77.1	20.0	3.85	2.00	599.
12.0	54.7	20.0	2.73	2.00	614.
14.0	39.9	20.0	1.99	2.00	611.
14.0	134.	20.0	6.70	6.00	656.
17.0	26.0	20.0	1.30	2.00	588.
17.0	87.0	20.0	4.35	6.00	638.
20.0	59.6	20.0	2.98	6.00	610.
25.0	34.6	20.0	1.73	6.00	558.
30.0	21.2	20.0	1.06	6.00	494.
35.0	34.2	50.0	.684	6.00	435.
40.0	22.8	50.0	.456	6.00	380.
45.0	14.6	50.0	.292	6.00	308.
50.0	9.84	50.0	.196	6.00	256.
60.0	9.26	100.	.0926	6.00	174.
70.0	5.20	100.	.0520	6.00	133.
80.0	3.27	100.	.0327	6.00	109.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	122.4	0.856	-0.856	0.00699	104.8
2	1948.8	2.95	-3.81	0.00152	5762.5
3	478.0	15.90	-19.72	0.0332	7604.6
4	51.35				

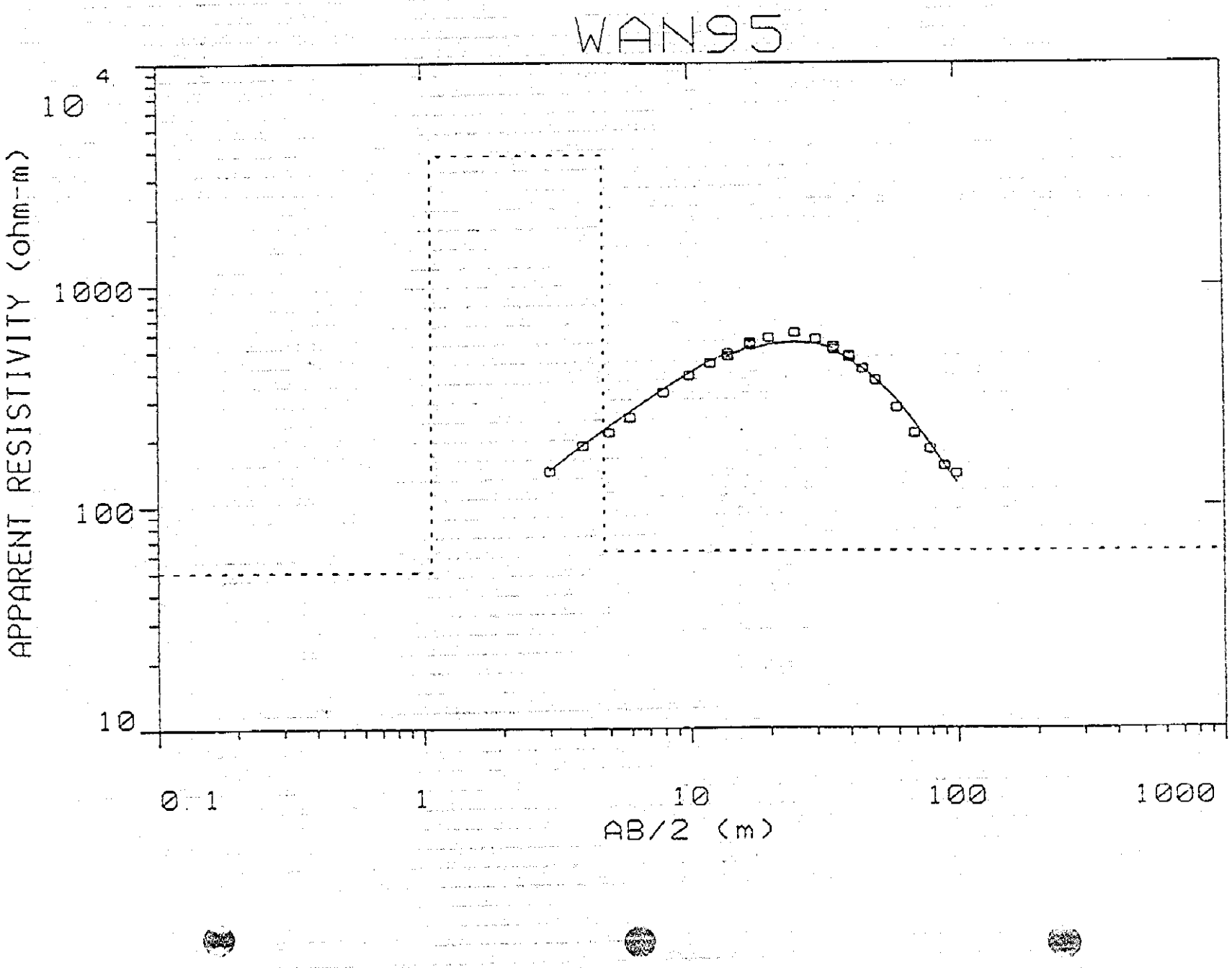

WAN94
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
10
0.1
1
10
100
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	229.	20.0	11.4	2.00	143.
4.00	160.	20.0	8.00	2.00	188.
5.00	115.	20.0	5.75	2.00	216.
6.00	92.4	20.0	4.62	2.00	254.
8.00	66.4	20.0	3.32	2.00	328.
10.0	50.2	20.0	2.51	2.00	390.
12.0	39.4	20.0	1.97	2.00	442.
14.0	32.1	20.0	1.60	2.00	491.
14.0	97.7	20.0	4.88	6.00	478.
17.0	24.2	20.0	1.21	2.00	547.
17.0	73.2	20.0	3.66	6.00	536.
20.0	56.5	20.0	2.82	6.00	578.
25.0	37.7	20.0	1.88	6.00	608.
30.0	24.4	20.0	1.22	6.00	569.
35.0	16.5	20.0	.825	6.00	525.
35.0	57.8	20.0	2.89	20.0	510.
40.0	28.7	50.0	.574	6.00	478.
40.0	99.8	50.0	1.99	20.0	470.
45.0	68.7	50.0	1.37	20.0	415.
50.0	49.0	50.0	.980	20.0	369.
60.0	25.4	50.0	.508	20.0	279.
70.0	28.4	100.	.284	20.0	214.
80.0	18.3	100.	.183	20.0	181.
90.0	12.0	100.	.120	20.0	150.
100.	17.9	200.	.0895	20.0	139.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	50.16	1.07	-1.07	0.0213	53.81
2	3827.2	3.69	-4.77	9.661E-04	14150.8
3	62.73				


WAN95
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
10
0.1
1
10
100
1000
AB/2 (m)

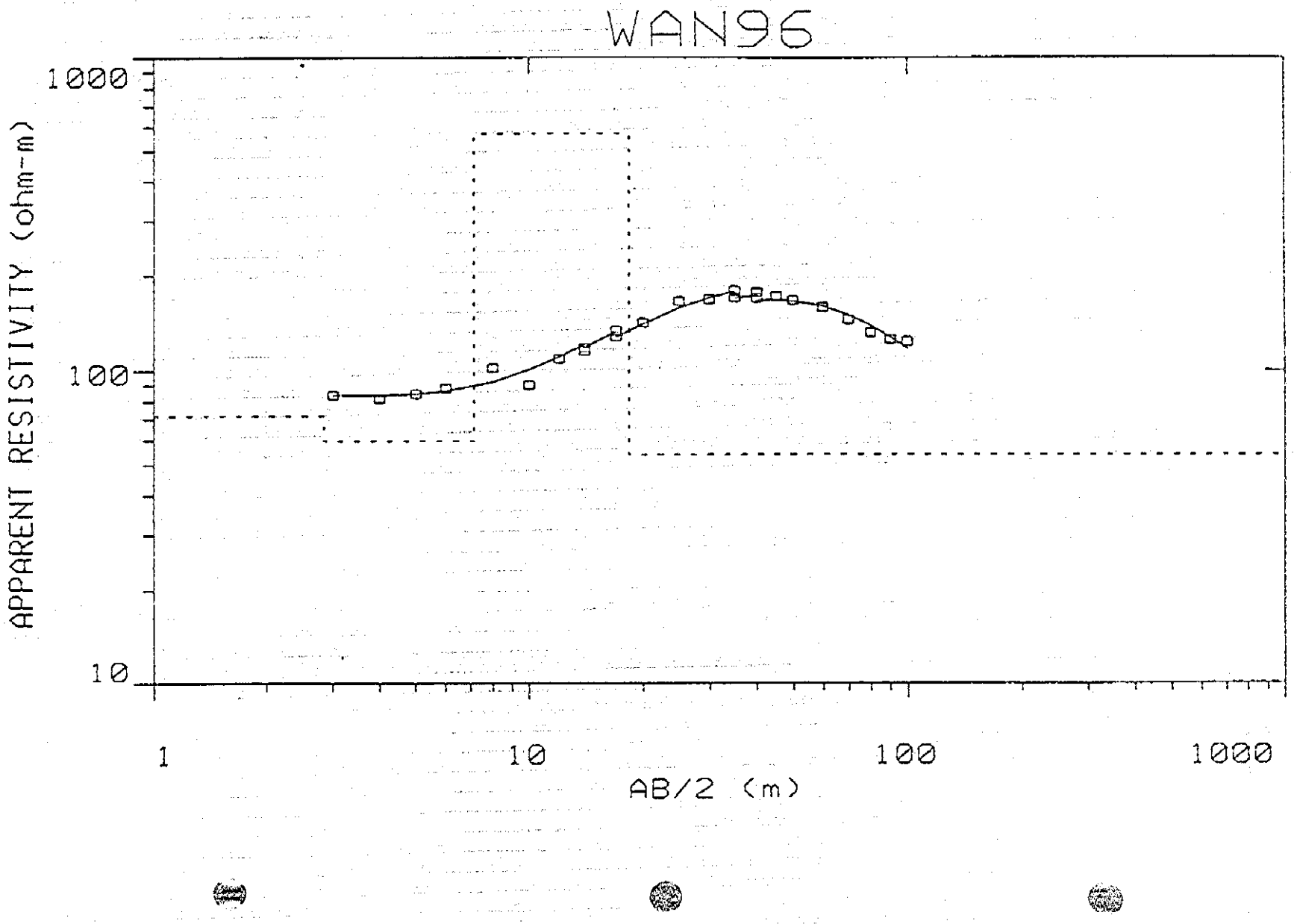
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	133.	20.0	6.65	2.00	83.6
4.00	69.2	20.0	3.46	2.00	81.5
5.00	44.7	20.0	2.23	2.00	84.3
6.00	32.0	20.0	1.60	2.00	88.0
8.00	20.6	20.0	1.03	2.00	101.
10.0	28.9	50.0	.578	2.00	89.9
12.0	24.3	50.0	.486	2.00	109.
14.0	19.3	50.0	.386	2.00	118.
14.0	58.9	50.0	1.17	6.00	115.
17.0	14.8	50.0	.296	2.00	133.
17.0	43.8	50.0	.876	6.00	128.
20.0	34.6	50.0	.692	6.00	141.
25.0	25.7	50.0	.514	6.00	165.
30.0	18.0	50.0	.360	6.00	168.
35.0	28.0	100.	.280	6.00	178.
35.0	96.1	100.	.961	20.0	169.
40.0	21.2	100.	.212	6.00	176.
40.0	72.0	100.	.720	20.0	169.
45.0	56.7	100.	.567	20.0	171.
50.0	44.1	100.	.441	20.0	166.
60.0	28.8	100.	.288	20.0	158.
70.0	36.1	188.	.192	20.0	144.
80.0	23.4	176.	.133	20.0	131.
90.0	9.97	100.	.0997	20.0	125.
100.	7.94	100.	.0794	20.0	123.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	71.78	2.84	-2.84	0.0396	204.0
2	59.61	4.29	-7.13	0.0719	255.8
3	569.9	11.20	-18.34	0.0196	6388.2
4	53.78				

423

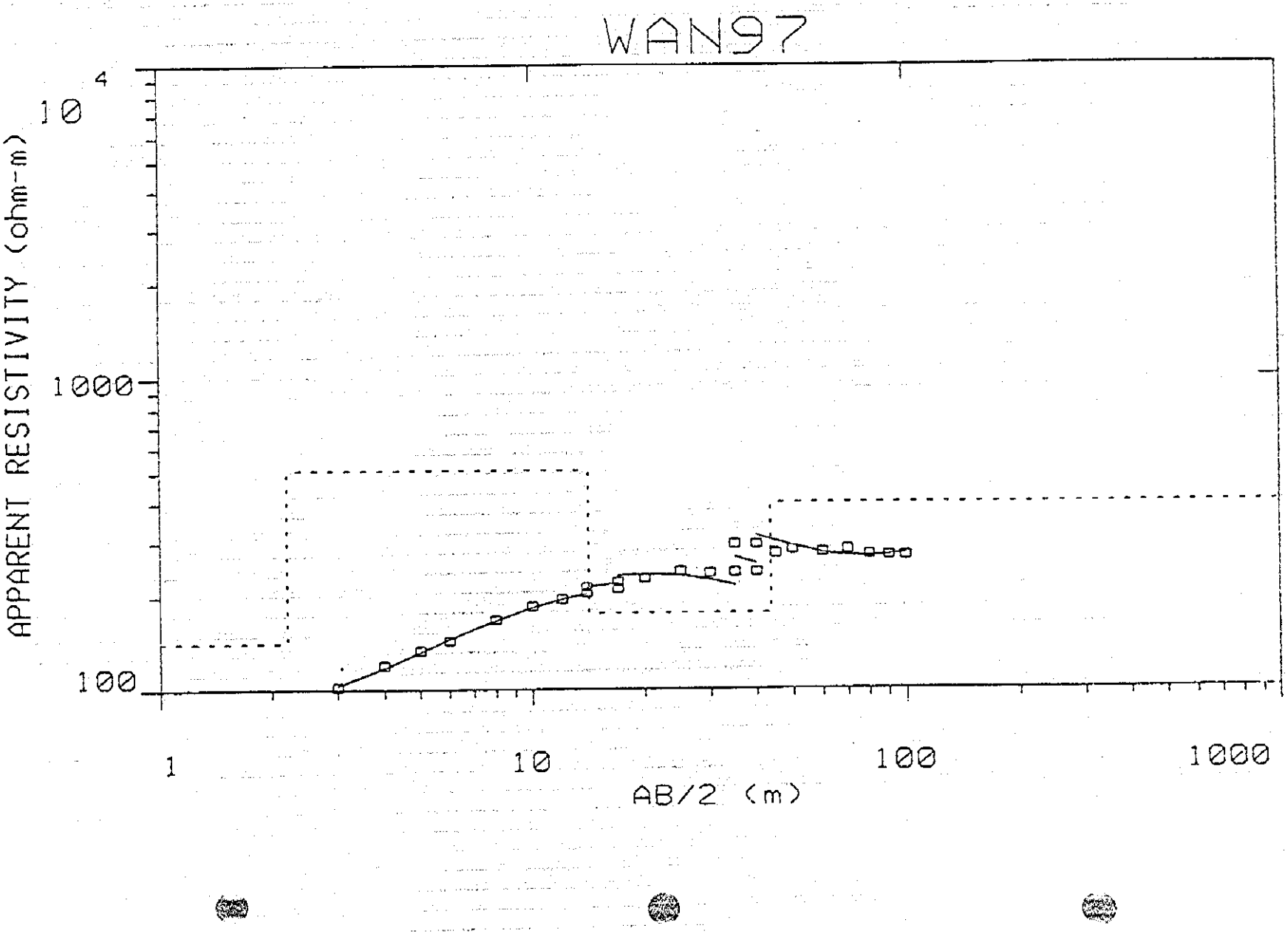

WAN96
1000
100
10
APPARENT RESISTIVITY (ohm-m)
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	162.	20.0	8.10	2.00	101.
4.00	101.	20.0	5.05	2.00	119.
5.00	70.4	20.0	3.52	2.00	132.
6.00	52.0	20.0	2.60	2.00	143.
8.00	33.9	20.0	1.69	2.00	167.
10.0	23.9	20.0	1.19	2.00	185.
12.0	17.5	20.0	.875	2.00	196.
14.0	13.4	20.0	.670	2.00	205.
14.0	43.9	20.0	2.19	6.00	215.
17.0	9.39	20.0	.469	2.00	212.
17.0	30.5	20.0	1.52	6.00	223.
20.0	22.4	20.0	1.12	6.00	229.
25.0	15.0	20.0	.750	6.00	242.
30.0	10.2	20.0	.510	6.00	238.
35.0	18.8	50.0	.376	6.00	239.
35.0	83.7	50.0	1.67	20.0	295.
40.0	14.4	50.0	.288	6.00	240.
40.0	62.6	50.0	1.25	20.0	295.
45.0	18.2	20.0	.910	20.0	275.
50.0	15.0	20.0	.750	20.0	282.
60.0	10.1	20.0	.505	20.0	277.
70.0	18.8	50.0	.376	20.0	283.
80.0	13.8	50.0	.276	20.0	273.
90.0	10.8	50.0	.216	20.0	271.
100.	17.4	100.	.174	20.0	270.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	140.7	2.20	-2.20	0.0156	309.9
2	507.8	12.02	-14.22	0.0236	6105.5
3	176.2	29.47	-43.70	0.167	5196.0
4	397.9				


WAN97
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
1
10
100
1000
AB/2 (m)

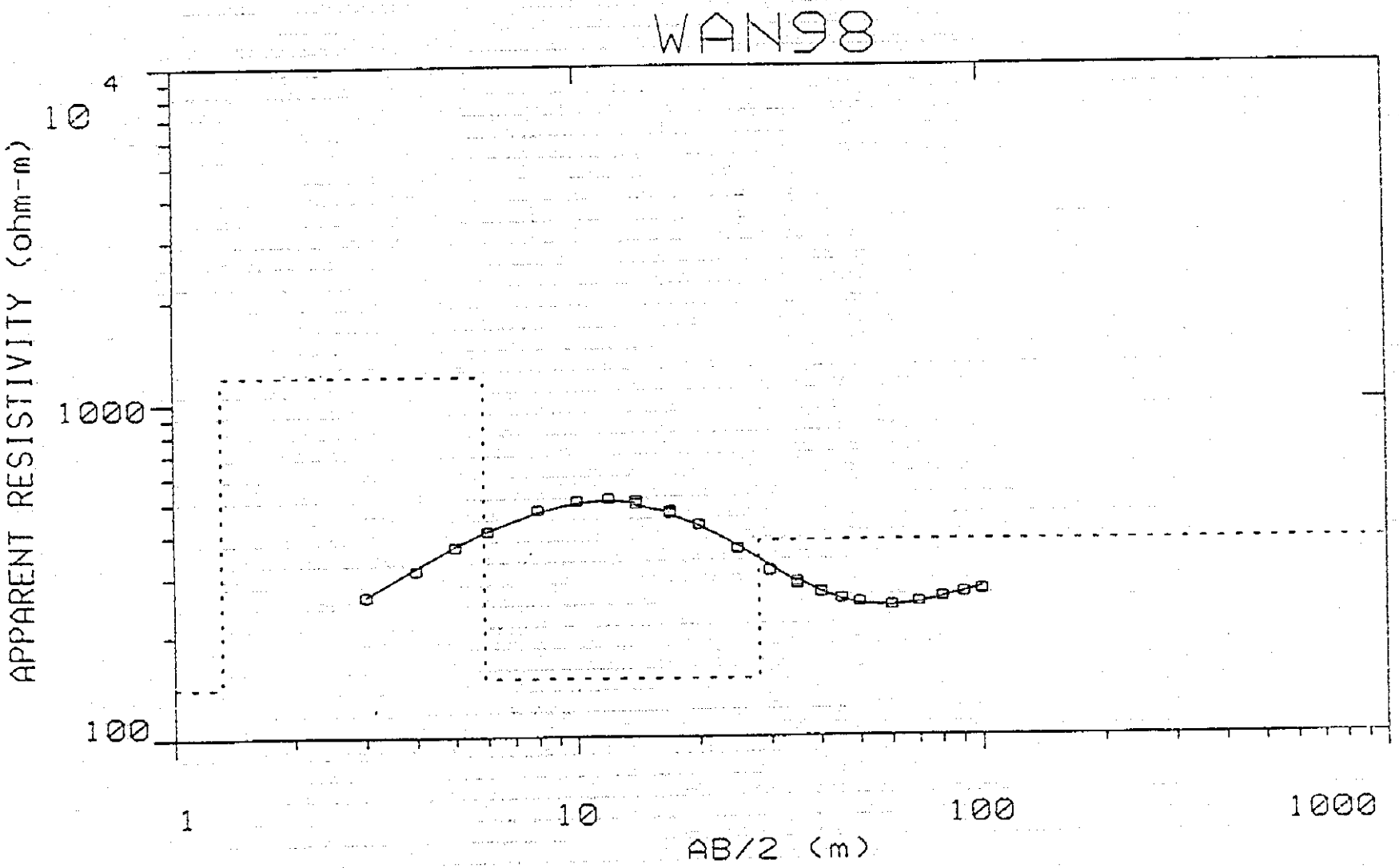
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	418.	20.0	20.9	2.00	262.
4.00	267.	20.0	13.3	2.00	314.
5.00	196.	20.0	9.80	2.00	369.
6.00	149.	20.0	7.45	2.00	409.
8.00	95.7	20.0	4.78	2.00	473.
10.0	64.9	20.0	3.24	2.00	504.
12.0	45.7	20.0	2.28	2.00	513.
14.0	33.1	20.0	1.65	2.00	507.
14.0	101.	20.0	5.05	6.00	494.
17.0	20.8	20.0	1.04	2.00	470.
17.0	63.2	20.0	3.16	6.00	463.
20.0	41.8	20.0	2.09	6.00	428.
25.0	22.6	20.0	1.13	6.00	364.
30.0	13.4	20.0	.670	6.00	312.
35.0	22.3	50.0	.446	6.00	284.
35.0	82.2	50.0	1.64	20.0	290.
40.0	16.1	50.0	.322	6.00	268.
40.0	57.2	50.0	1.14	20.0	269.
45.0	42.5	50.0	.850	20.0	257.
50.0	33.2	50.0	.664	20.0	250.
60.0	22.2	50.0	.444	20.0	244.
70.0	16.6	50.0	.332	20.0	250.
80.0	26.2	100.	.262	20.0	259.
90.0	20.0	94.2	.212	20.0	266.
100.	8.74	50.0	.174	20.0	271.

---------- Apparent Resistivity Model ---------- PAGE 1

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	140.4	1.31	-1.31	0.00935	184.5
2	1200.1	4.56	-5.87	0.00380	5477.0
3	148.3	22.30	-28.18	0.150	3309.6
4	383.9				

425

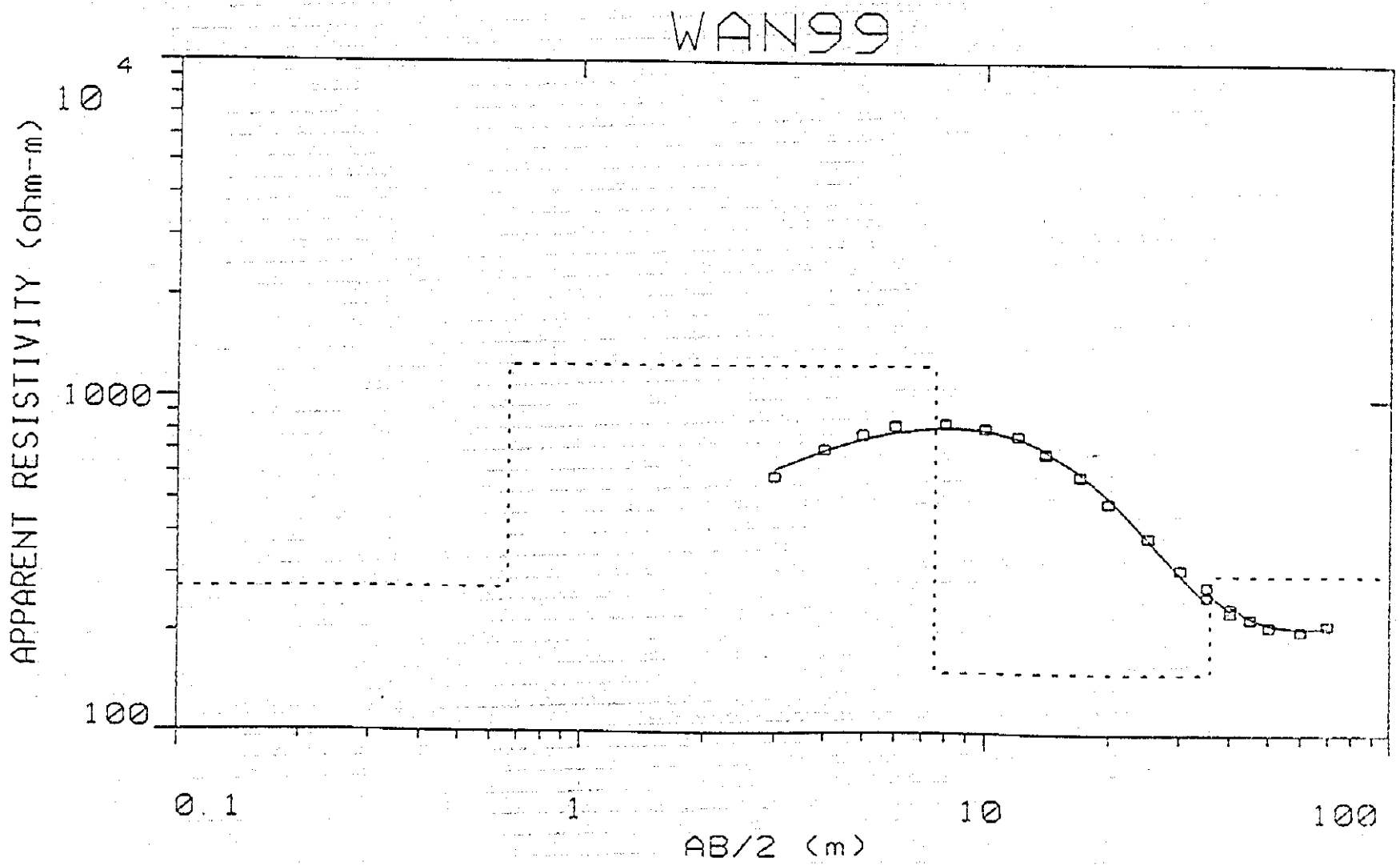

WAN98
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	930.	20.0	46.5	2.00	584.
4.00	598.	20.0	29.9	2.00	704.
5.00	414.	20.0	20.7	2.00	780.
6.00	302.	20.0	15.1	2.00	830.
8.00	170.	20.0	8.50	2.00	841.
10.0	105.	20.0	5.25	2.00	816.
12.0	69.1	20.0	3.45	2.00	776.
14.0	45.4	20.0	2.27	2.00	695.
14.0	140.	20.0	7.00	6.00	685.
17.0	26.3	20.0	1.31	2.00	595.
17.0	80.6	20.0	4.03	6.00	591.
20.0	48.2	20.0	2.41	6.00	493.
25.0	24.4	20.0	1.22	6.00	393.
30.0	13.6	20.0	.680	6.00	317.
35.0	20.5	50.0	.410	6.00	261.
35.0	79.8	50.0	1.59	20.0	282.
40.0	14.0	50.0	.280	6.00	233.
40.0	51.3	50.0	1.02	20.0	241.
45.0	37.0	50.0	.740	20.0	223.
50.0	28.1	50.0	.562	20.0	211.
60.0	18.7	50.0	.374	20.0	205.
70.0	14.2	50.0	.284	20.0	214.

---------- Apparent Resistivity Model ---------- PAGE 1

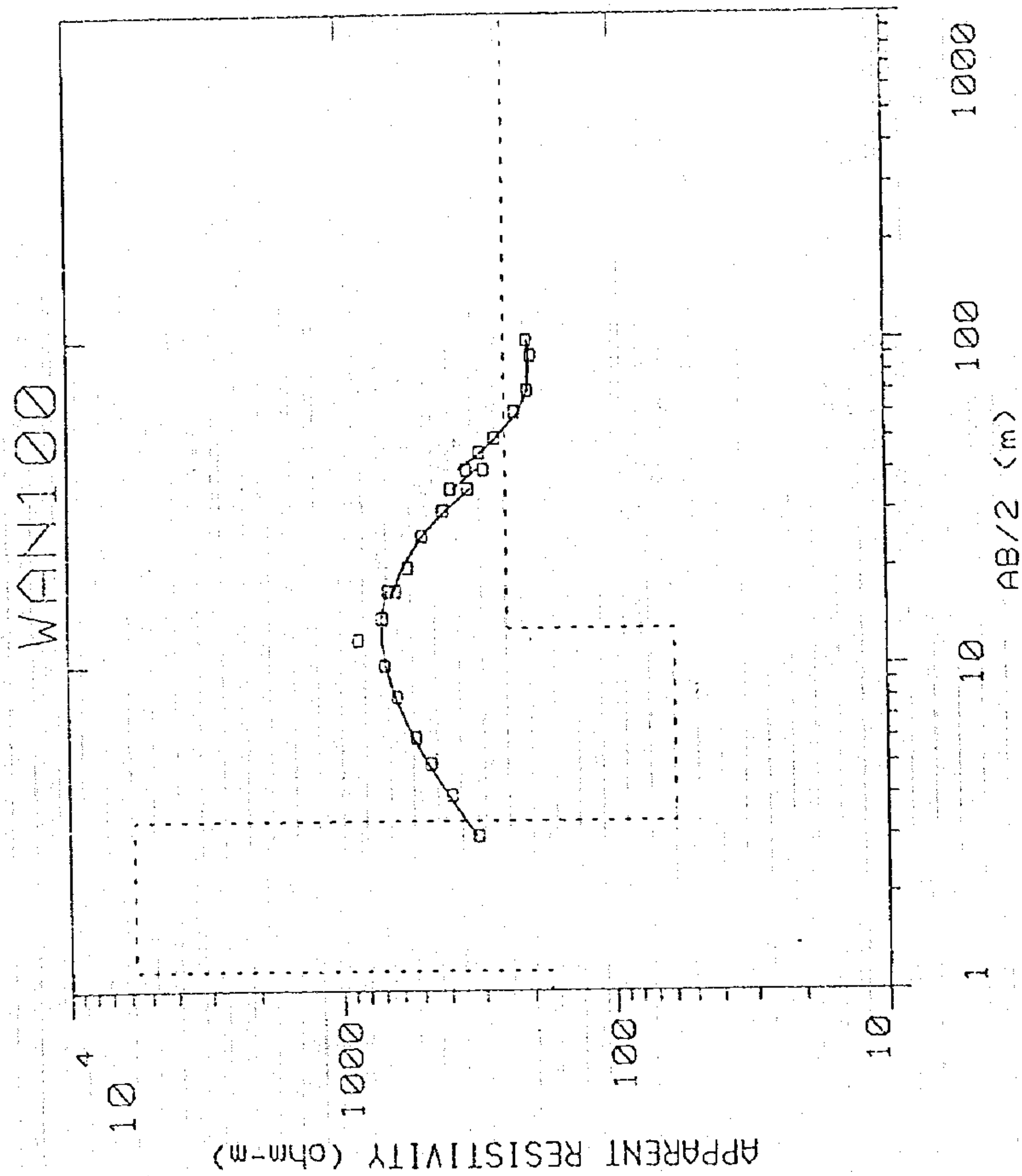
L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	273.6	0.665	-0.665	0.00243	182.0
2	1247.3	6.88	-7.54	0.00552	8584.8
3	152.1	28.20	-35.74	0.185	4289.5
4	304.1				


WAN99
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
0.1
1
10
100
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	506.	20.0	25.3	2.00	318.
4.00	335.	20.0	16.7	2.00	394.
5.00	249.	20.0	12.4	2.00	469.
6.00	193.	20.0	9.65	2.00	530.
8.00	126.	20.0	6.30	2.00	623.
10.0	89.1	20.0	4.45	2.00	693.
12.0	77.1	20.0	3.85	2.00	866.
14.0	44.2	19.2	2.30	2.00	705.
17.0	29.6	20.0	1.48	2.00	669.
17.0	85.6	20.0	4.28	6.00	627.
20.0	55.0	20.0	2.75	6.00	563.
25.0	30.8	20.0	1.54	6.00	496.
30.0	17.8	20.0	.890	6.00	415.
35.0	26.4	50.0	.528	6.00	336.
35.0	110.	50.0	2.20	20.0	388.
40.0	17.7	50.0	.354	6.00	295.
40.0	72.4	50.0	1.44	20.0	341.
45.0	50.6	50.0	1.01	20.0	306.
50.0	35.6	50.0	.712	20.0	268.
60.0	20.6	50.0	.412	20.0	226.
70.0	13.4	50.0	.268	20.0	202.
90.0	7.79	50.0	.155	20.0	195.
100.	6.44	49.3	.130	20.0	203.

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	174.1	1.14	-1.14	0.00660	200.1
2	5795.6	2.18	-3.33	3.777E-04	12686.7
3	59.89	9.64	-12.98	0.161	577.8
4	245.5				

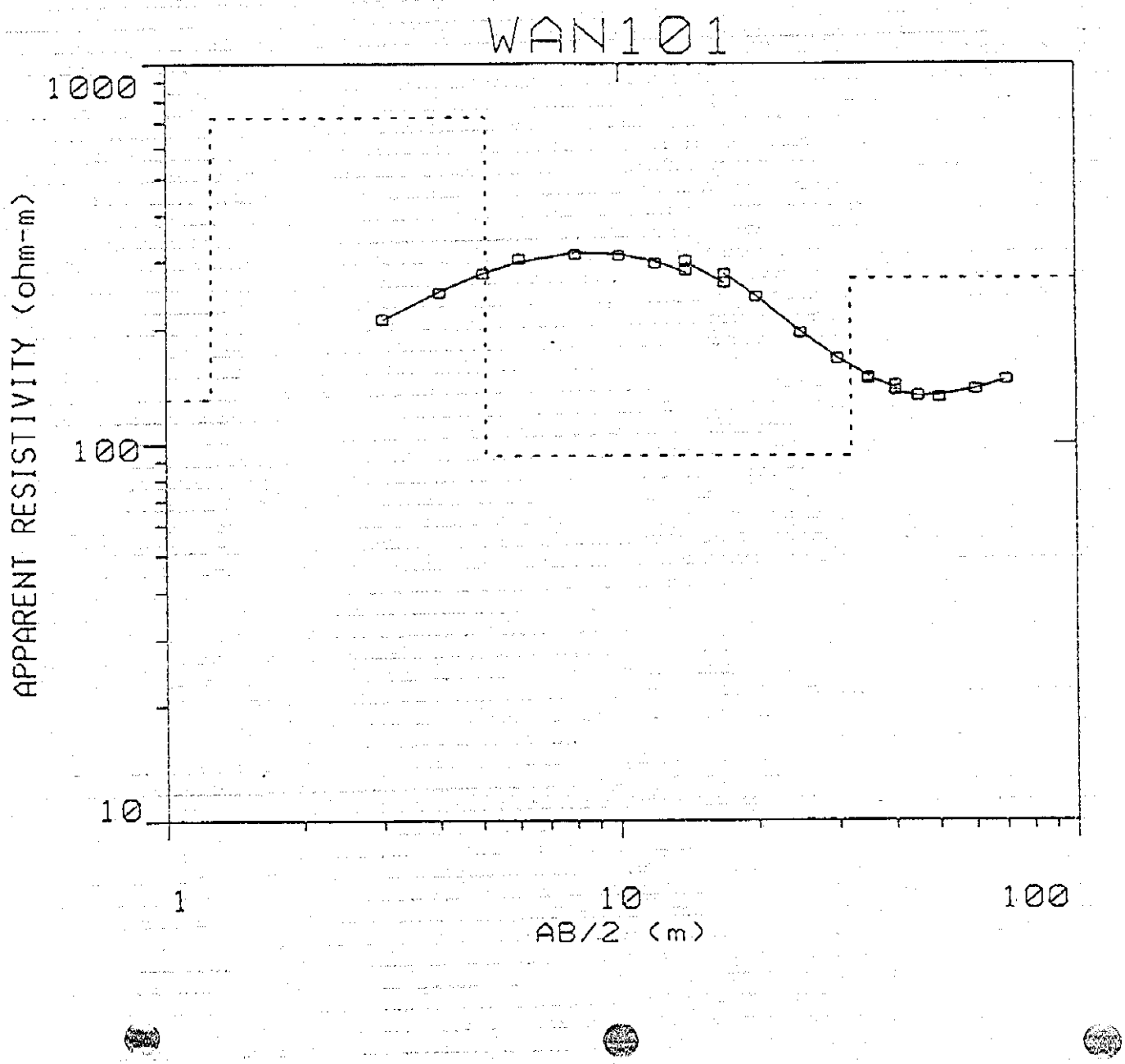

WAN100
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
10
AB/2 (m)
1
10
100
1000

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	337.	20.0	16.8	2.00	211.
4.00	210.	20.0	10.5	2.00	247.
5.00	147.	20.0	7.35	2.00	277.
6.00	110.	20.0	5.50	2.00	302.
8.00	63.0	20.0	3.15	2.00	311.
10.0	39.8	20.0	1.99	2.00	309.
12.0	26.3	20.0	1.31	2.00	295.
14.0	18.4	20.0	.920	2.00	281.
14.0	61.4	20.0	3.07	6.00	300.
17.0	11.6	20.0	.580	2.00	262.
17.0	37.9	20.0	1.89	6.00	277.
20.0	23.6	20.0	1.18	6.00	241.
25.0	12.1	20.0	.605	6.00	195.
30.0	17.9	50.0	.358	6.00	167.
35.0	11.7	50.0	.234	6.00	149.
35.0	41.7	50.0	.834	20.0	147.
40.0	3.41	20.0	.170	6.00	142.
40.0	29.2	50.0	.584	20.0	137.
45.0	22.0	50.0	.440	20.0	133.
50.0	17.5	50.0	.350	20.0	132.
60.0	5.04	20.0	.252	20.0	138.
70.0	3.89	20.0	.194	20.0	146.

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	130.7	1.25	-1.25	0.00957	163.6
2	720.3	3.83	-5.08	0.00532	2760.9
3	92.86	26.89	-31.97	0.289	2497.6
4	269.6				

428


WAN101
1000
100
10
APPARENT RESISTIVITY (ohm-m)
1
10
100
AB/2 (m)

GEOPHYSICAL PROSPECTING (VERTICAL ELECTRIC SURVEY)

PHANGYUL SUB - AREA

DATA SHEET OF COMPUTER ANALYSIS

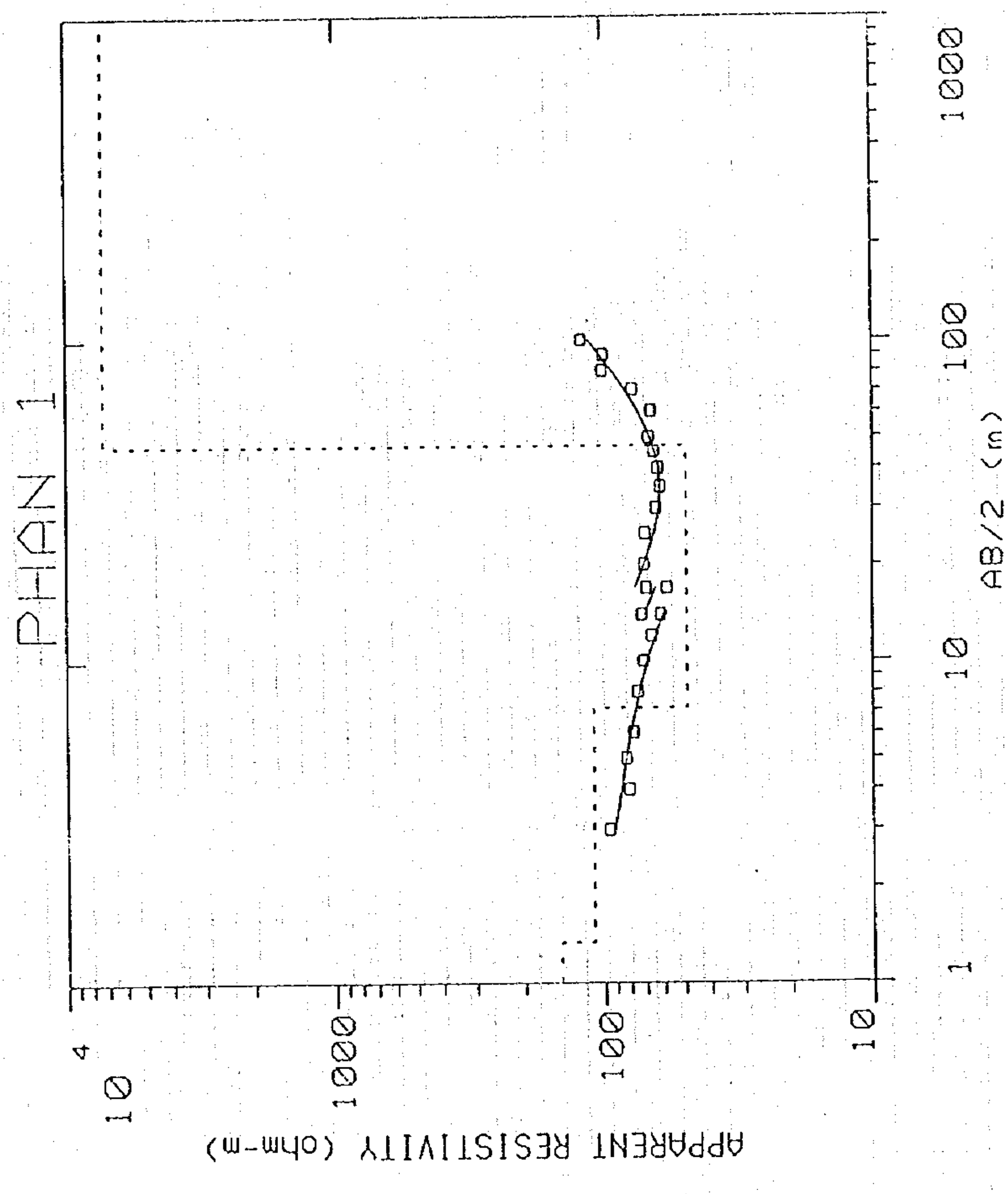
PHAN No.1 - PHAN No. 9

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	153.	20.0	7.65	2.00	96.1
4.00	67.1	19.5	3.44	2.00	81.1
5.00	44.2	20.0	2.21	2.00	83.3
6.00	24.3	17.1	1.42	2.00	78.1
8.00	15.2	20.0	.760	2.00	75.2
10.0	9.22	20.0	.461	2.00	71.7
12.0	5.94	20.0	.297	2.00	66.7
14.0	2.01	10.0	.201	2.00	61.6
14.0	7.40	10.0	.740	6.00	72.4
17.0	1.29	10.0	.129	2.00	58.3
17.0	4.68	9.85	.475	6.00	69.6
20.0	3.29	9.51	.346	6.00	70.8
25.0	4.35	20.0	.217	6.00	70.1
30.0	2.74	20.0	.137	6.00	63.9
35.0	1.94	20.0	.0970	6.00	61.7
40.0	1.51	20.0	.0755	6.00	62.9
45.0	1.23	20.0	.0615	6.00	64.9
50.0	1.04	20.0	.0520	6.00	67.8
60.0	1.77	50.0	.0354	6.00	66.5
70.0	.720	23.7	.0303	6.00	77.8
80.0	.490	16.3	.0300	6.00	100.
90.0	.470	20.0	.0235	6.00	99.6
100.	.460	20.0	.0230	6.00	120.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	146.3	1.33	-1.33	0.00909	194.7
2	109.8	5.82	-7.15	0.0530	639.7
3	49.22	39.82	-46.97	0.808	1960.4
4	7227.0				

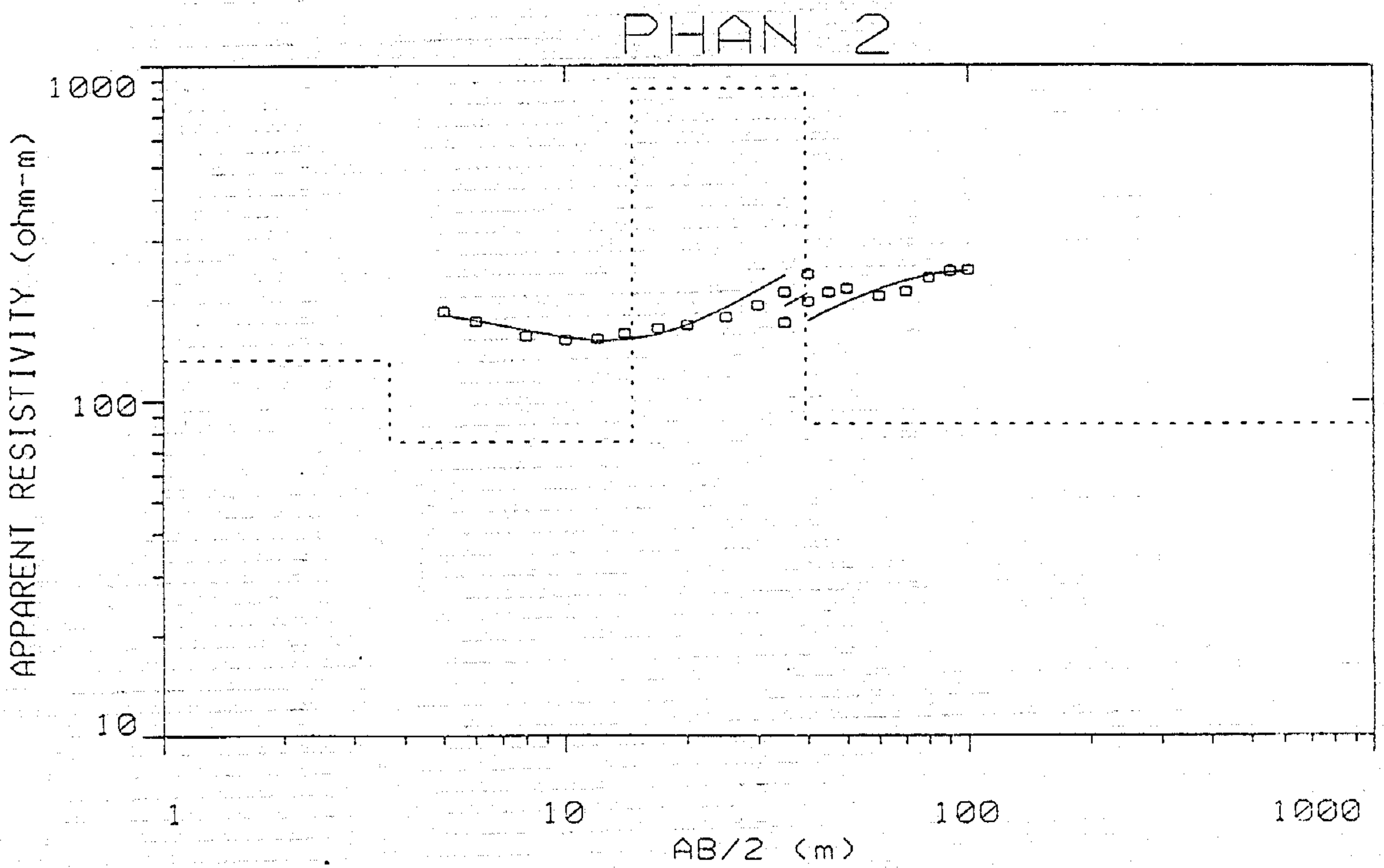

PHAN 1
APPARENT RESISTIVITY (ohm-m)
AB/2 (m)
10^4
1000
100
10
1
10
100
1000

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
5.00	220.	10.0	22.0	6.00	184.
6.00	122.	10.0	12.2	6.00	172.
8.00	27.0	5.00	5.40	6.00	155.
10.0	31.9	10.0	3.19	6.00	152.
12.0	21.6	10.0	2.16	6.00	152.
14.0	16.2	10.0	1.62	6.00	158.
17.0	11.2	10.0	1.12	6.00	164.
20.0	16.4	20.0	.820	6.00	167.
25.0	11.0	20.0	.550	6.00	177.
30.0	7.62	18.5	.412	6.00	192.
35.0	1.65	5.00	.330	6.00	210.
35.0	4.82	5.00	.964	20.0	170.
40.0	5.71	20.0	.285	6.00	237.
40.0	16.7	20.0	.835	20.0	196.
45.0	11.5	16.6	.693	20.0	209.
50.0	11.4	20.0	.570	20.0	214.
60.0	7.44	20.0	.372	20.0	204.
70.0	5.61	20.0	.280	20.0	211.
80.0	2.35	10.0	.235	20.0	232.
90.0	3.88	20.0	.194	20.0	243.
100.	3.15	20.0	.157	20.0	245.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	131.9	3.67	-3.67	0.0278	485.0
2	75.31	11.01	-14.69	0.146	829.9
3	849.5	24.78	-39.48	0.0291	21056.5
4	85.00				


PHAN 2
APPARENT RESISTIVITY (ohm-m)
1000
100
10
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

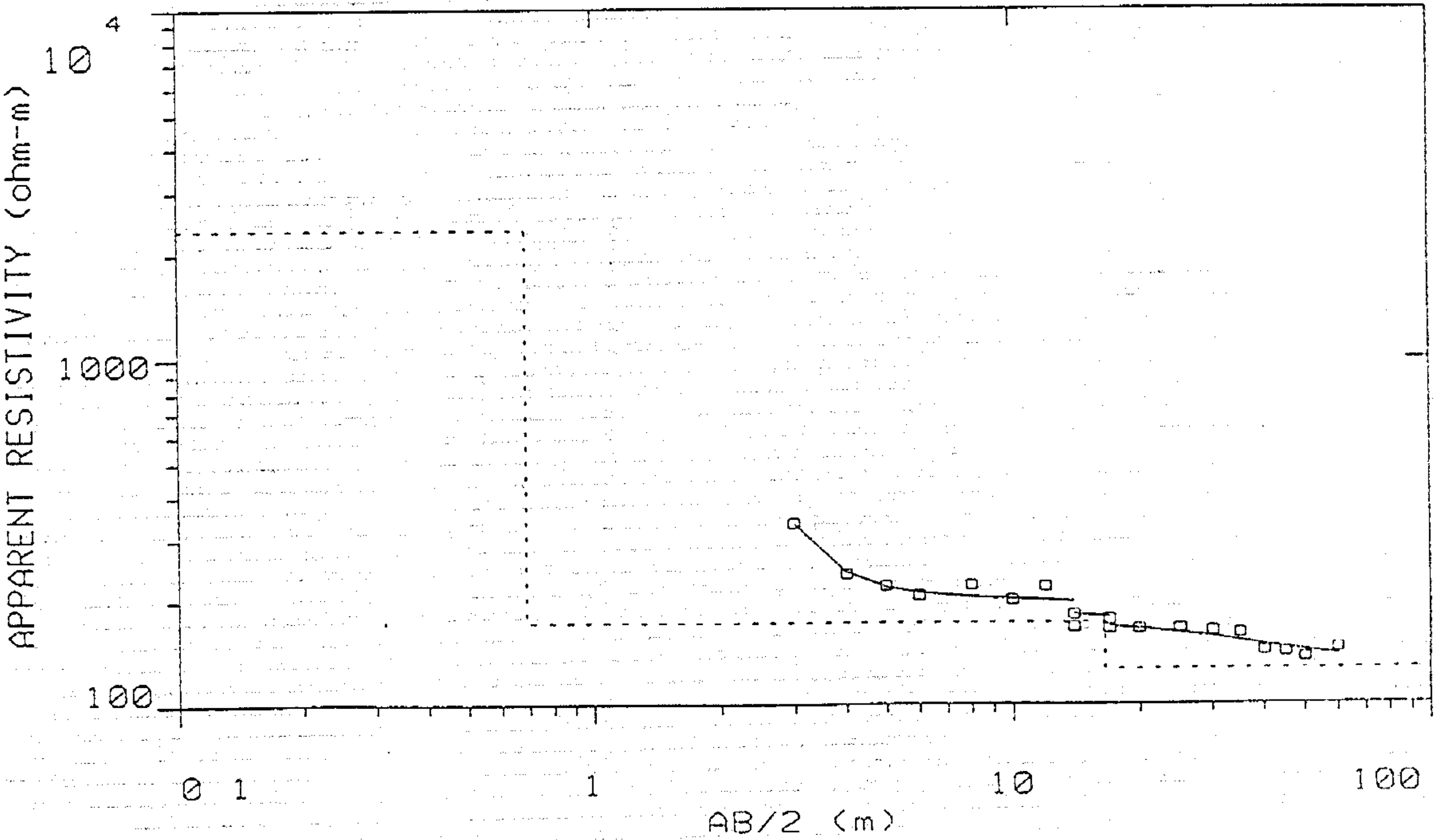
SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	266.	10.0	26.6	2.00	334.
4.00	101.	10.0	10.1	2.00	238.
5.00	58.3	10.0	5.83	2.00	219.
6.00	37.6	10.0	3.76	2.00	206.
8.00	22.3	10.0	2.23	2.00	220.
10.0	12.9	10.0	1.29	2.00	200.
12.0	9.74	10.0	.974	2.00	218.
14.0	5.95	10.0	.595	2.00	182.
14.0	17.1	10.0	1.71	6.00	167.
17.0	3.91	10.0	.391	2.00	176.
17.0	11.3	10.0	1.13	6.00	165.
20.0	16.2	20.0	.810	6.00	165.
25.0	5.16	10.0	.516	6.00	166.
30.0	7.00	20.0	.350	6.00	163.
35.0	1.26	5.00	.252	6.00	160.
40.0	3.43	20.0	.171	6.00	142.
45.0	2.68	20.0	.134	6.00	141.
50.0	1.62	15.5	.104	6.00	136.
60.0	1.54	20.0	.0770	6.00	144.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	2336.4	0.686	-0.686	2.937E-04	1603.2
2	172.7	15.81	-16.50	0.0915	2732.3
3	126.6				

* MINDECO *

PHAN 3



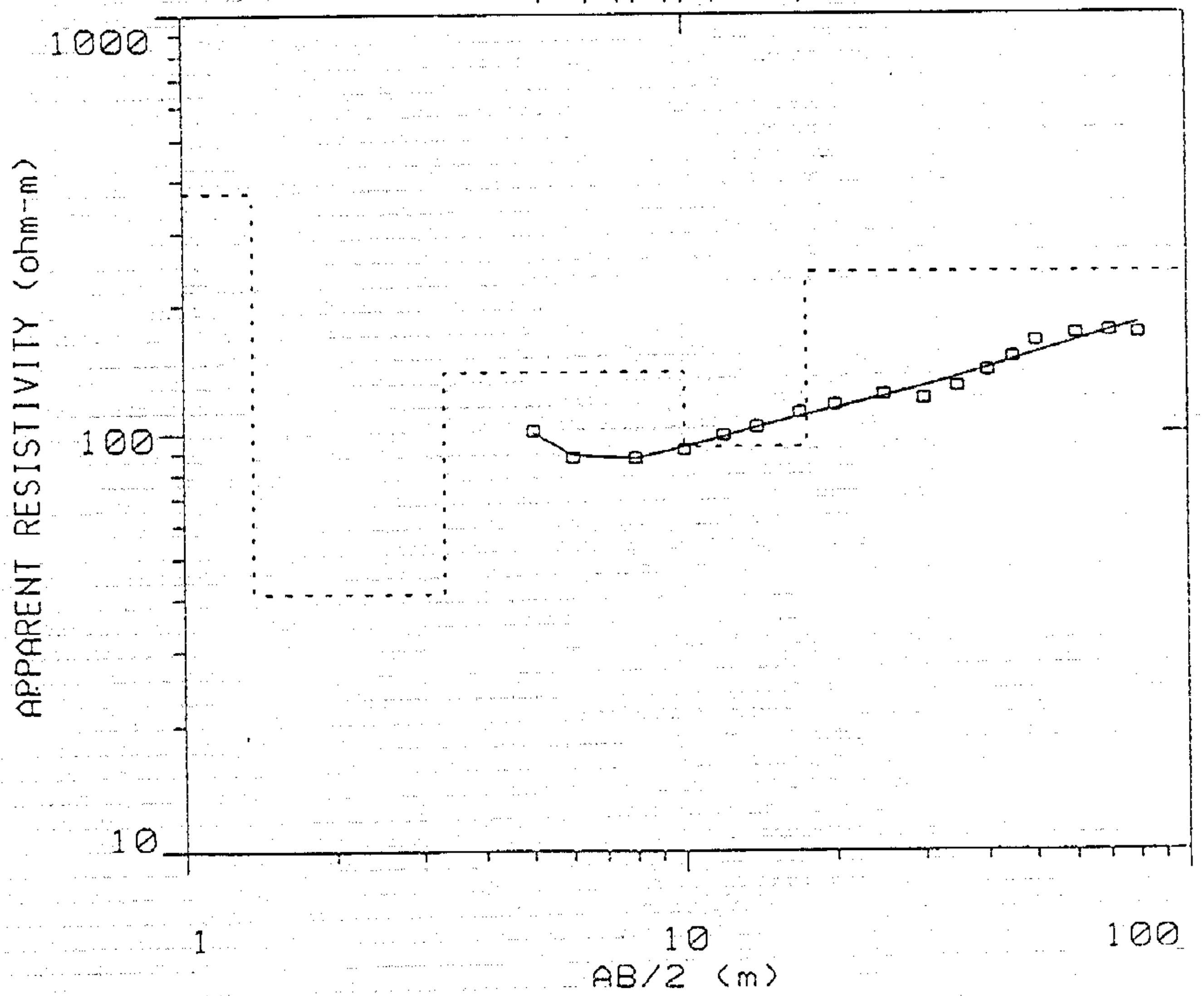
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
5.00	121.	10.0	12.1	6.00	101.
6.00	62.1	10.0	6.21	6.00	87.8
8.00	30.4	10.0	3.04	6.00	87.5
10.0	19.2	10.0	1.92	6.00	91.5
12.0	14.0	10.0	1.40	6.00	99.0
14.0	21.1	20.0	1.05	6.00	103.
17.0	15.2	20.0	.760	6.00	111.
20.0	11.3	20.0	.565	6.00	115.
25.0	7.57	20.0	.378	6.00	122.
30.0	11.1	43.3	.256	6.00	119.
35.0	9.57	47.9	.199	6.00	127.
40.0	7.42	44.5	.166	6.00	138.
45.0	7.07	50.0	.141	6.00	149.
50.0	6.26	50.0	.125	6.00	163.
60.0	1.81	20.0	.0905	6.00	170.
70.0	1.35	20.0	.0675	6.00	172.
80.0	1.02	20.0	.0510	6.00	170.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	373.5	1.37	-1.37	0.00369	514.6
2	41.09	1.93	-3.31	0.0470	79.43
3	138.2	6.70	-10.01	0.0484	926.1
4	92.87	7.54	-17.55	0.0812	700.8
5	238.8				

PHAN 4

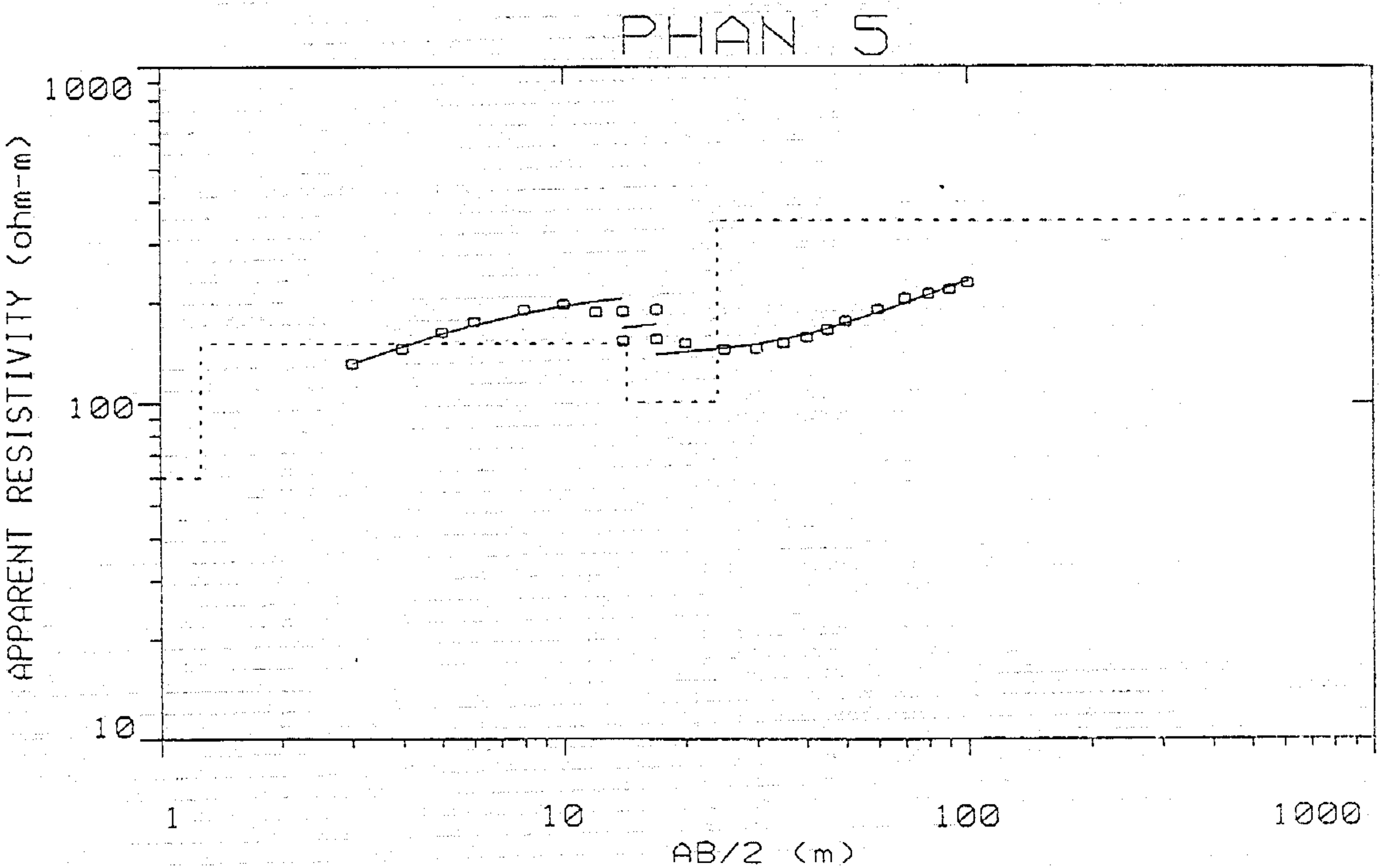


APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	208.	20.0	10.4	2.00	130.
4.00	123.	20.0	6.15	2.00	144.
5.00	86.0	20.0	4.30	2.00	162.
6.00	63.7	20.0	3.18	2.00	175.
8.00	38.5	20.0	1.92	2.00	190.
10.0	25.4	20.0	1.27	2.00	197.
12.0	16.7	20.0	.835	2.00	187.
14.0	12.3	20.0	.615	2.00	188.
14.0	31.3	20.0	1.56	6.00	153.
17.0	8.44	20.0	.422	2.00	191.
17.0	21.1	20.0	1.05	6.00	154.
20.0	14.7	20.0	.735	6.00	150.
25.0	18.1	40.5	.447	6.00	144.
30.0	15.5	50.0	.310	6.00	144.
35.0	11.4	48.2	.236	6.00	150.
40.0	9.40	50.0	.188	6.00	156.
45.0	7.83	50.0	.156	6.00	165.
50.0	5.00	37.2	.134	6.00	175.
60.0	5.06	50.0	.101	6.00	190.
70.0	4.00	49.8	.0803	6.00	205.
80.0	3.18	50.0	.0636	6.00	212.
90.0	2.58	49.7	.0519	6.00	220.
100.	.880	20.0	.0440	6.00	230.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	59.84	1.26	-1.26	0.0211	75.73
2	150.2	13.07	-14.34	0.0870	1965.4
3	100.7	9.62	-23.97	0.0955	970.3
4	351.4				

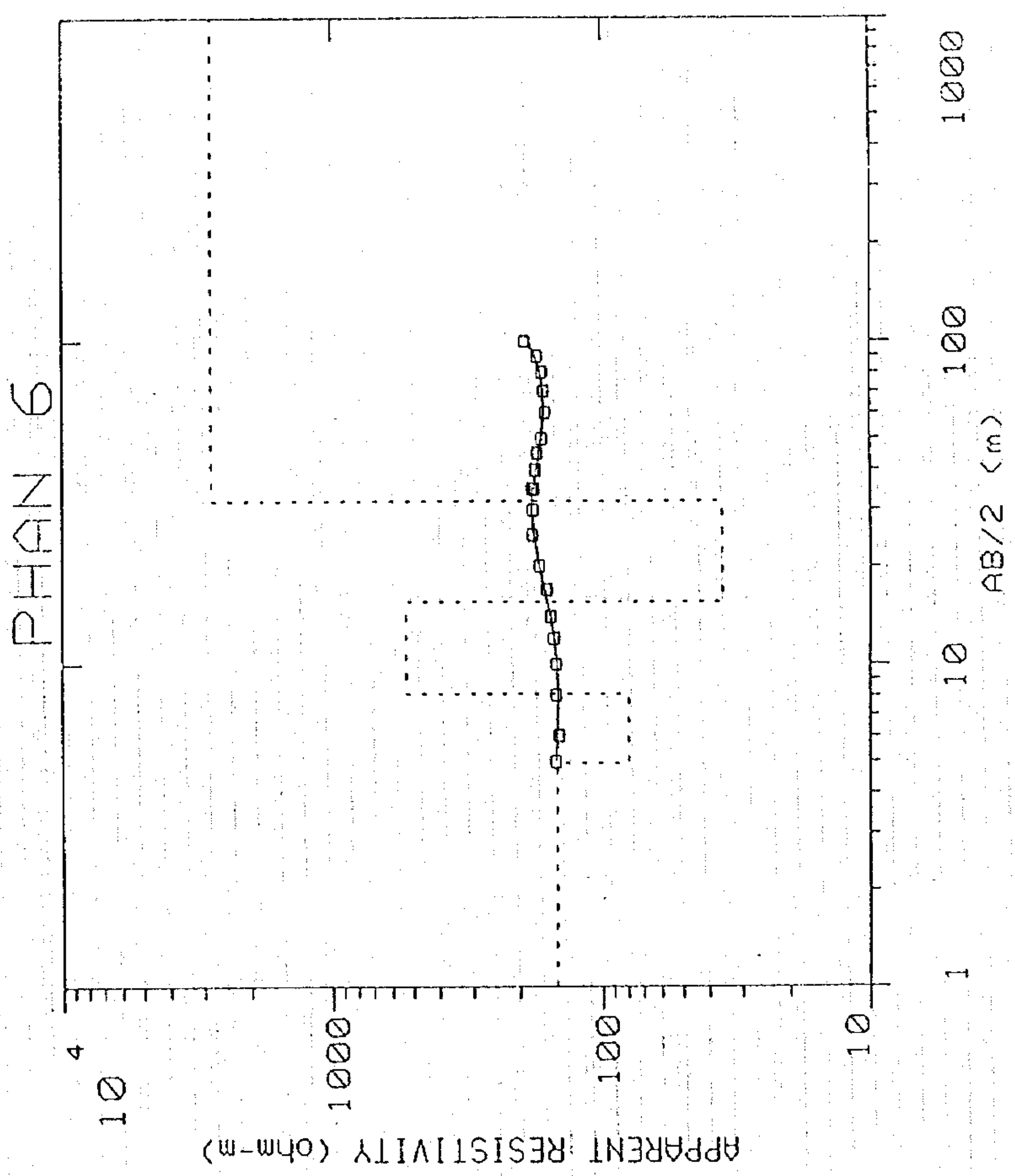

PHAN 5
APPARENT RESISTIVITY (ohm-m)
1000
100
10
1
10
100
1000
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
5.00	353.	20.0	17.6	6.00	147.
6.00	203.	20.0	10.1	6.00	143.
8.00	102.	20.0	5.10	6.00	146.
10.0	61.8	20.0	3.09	6.00	147.
12.0	42.5	20.0	2.12	6.00	150.
14.0	31.4	20.0	1.57	6.00	153.
17.0	21.7	20.0	1.08	6.00	159.
20.0	16.5	20.0	.825	6.00	168.
25.0	11.1	20.0	.555	6.00	179.
30.0	19.1	50.0	.382	6.00	178.
35.0	13.2	46.9	.281	6.00	179.
35.0	49.3	49.5	.996	20.0	176.
40.0	4.20	20.0	.210	6.00	175.
40.0	14.7	20.0	.735	20.0	173.
45.0	11.3	20.0	.565	20.0	170.
50.0	21.8	50.0	.436	20.0	164.
60.0	14.5	50.0	.290	20.0	159.
70.0	10.7	50.0	.214	20.0	161.
80.0	8.28	50.0	.165	20.0	163.
90.0	6.80	50.0	.136	20.0	170.
100.	6.12	50.0	.122	20.0	190.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	145.8	4.94	-4.94	0.0339	720.6
2	79.95	3.17	-8.12	0.0397	254.1
3	534.6	7.43	-15.55	0.0139	3973.5
4	35.91	16.40	-31.95	0.456	589.0
5	2821.5				


PHAN 6
APPARENT RESISTIVITY (ohm-m)
AB/2 (m)
10^4
1000
100
10
1
10
100
1000

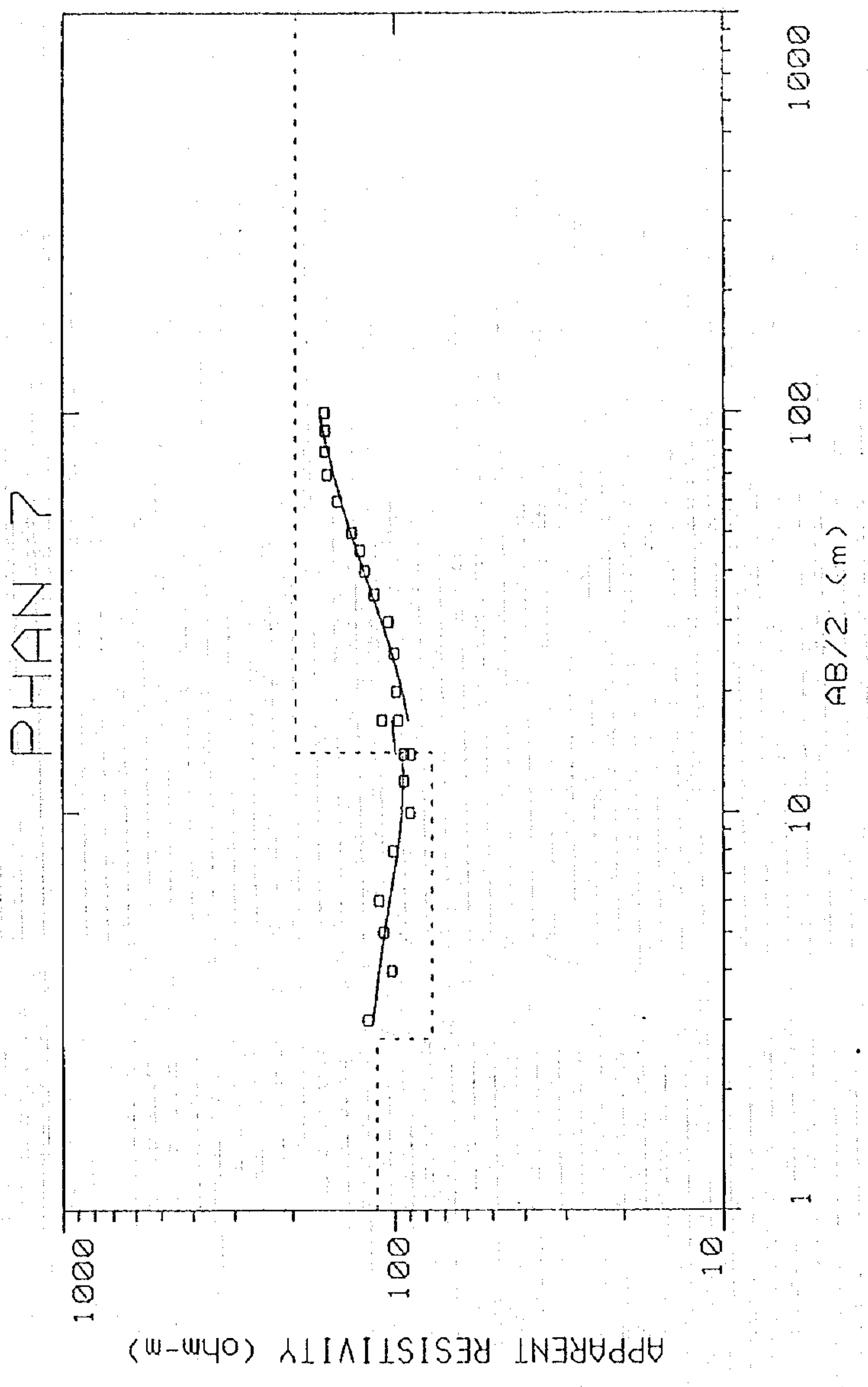
435

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	191.	20.0	9.55	2.00	120.
4.00	86.5	20.0	4.32	2.00	101.
5.00	57.3	20.0	2.86	2.00	108.
6.00	40.5	20.0	2.02	2.00	111.
8.00	20.4	20.0	1.02	2.00	100.
10.0	11.5	20.0	.575	2.00	89.4
12.0	4.17	10.0	.417	2.00	93.7
14.0	5.83	20.0	.291	2.00	89.3
14.0	19.1	20.0	.955	6.00	93.5
17.0	4.82	20.0	.241	2.00	109.
17.0	13.3	20.0	.665	6.00	97.5
20.0	9.68	20.0	.484	6.00	99.1
25.0	6.23	20.0	.311	6.00	100.
30.0	4.48	20.0	.224	6.00	104.
35.0	3.61	20.0	.180	6.00	114.
40.0	7.37	50.0	.147	6.00	122.
45.0	5.99	50.0	.119	6.00	126.
50.0	5.12	50.0	.102	6.00	133.
60.0	3.91	50.0	.0782	6.00	147.
70.0	3.09	50.0	.0618	6.00	158.
80.0	2.39	50.0	.0478	6.00	160.
90.0	1.89	50.0	.0378	6.00	160.
100.	1.54	50.0	.0308	6.00	161.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	112.9	2.69	-2.69	0.0238	304.7
2	76.59	11.46	-14.16	0.149	878.5
3	196.2				

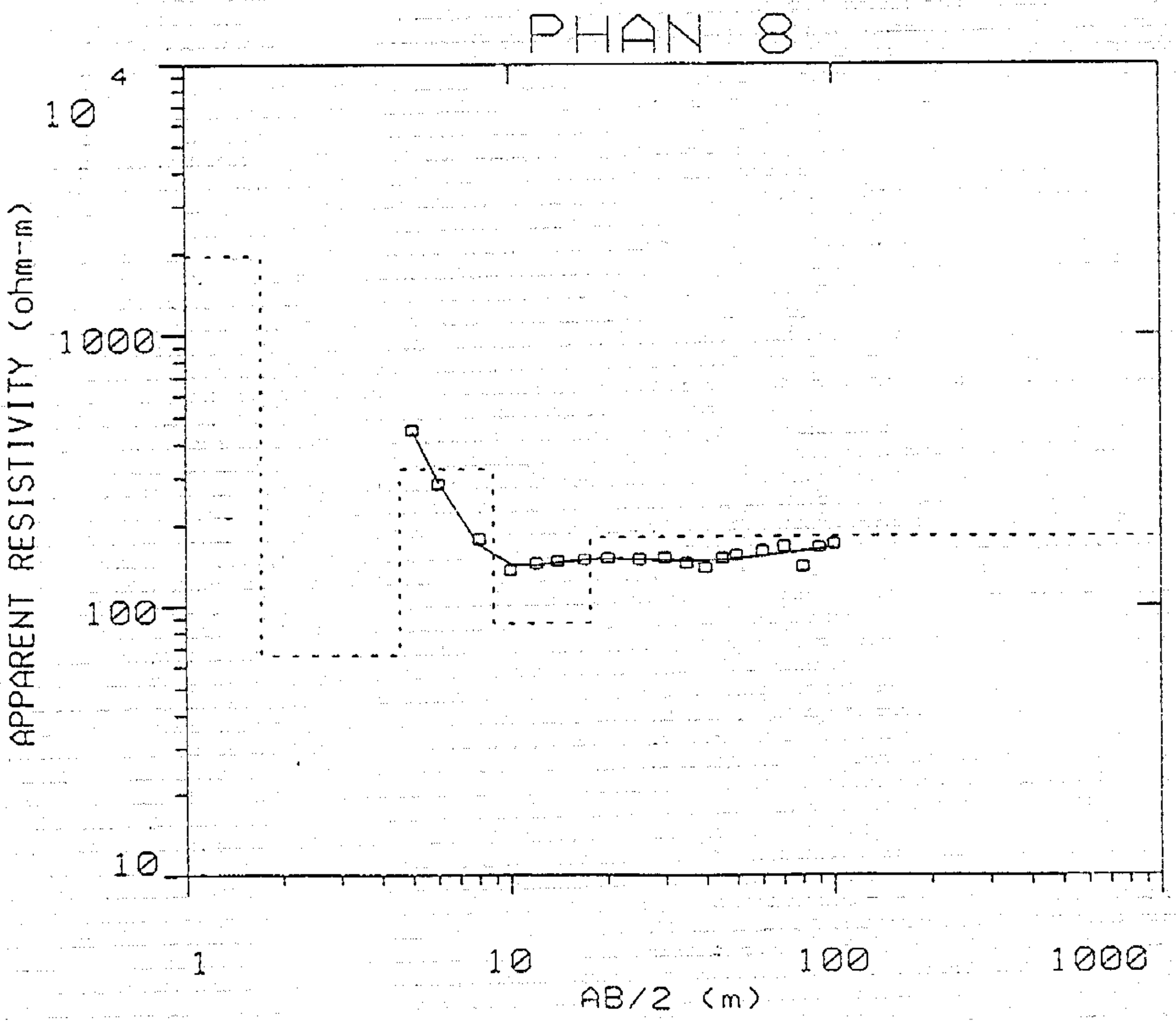

PHAN 7
1000
100
10
1
AB/2 (m)
APPARENT RESISTIVITY (ohm-m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
5.00	536.	10.0	53.6	6.00	449.
6.00	201.	10.0	20.1	6.00	284.
8.00	61.9	10.0	6.19	6.00	178.
10.0	28.7	10.0	2.87	6.00	136.
12.0	20.5	10.0	2.05	6.00	144.
14.0	15.1	10.0	1.51	6.00	147.
17.0	10.2	10.0	1.02	6.00	149.
20.0	14.8	20.0	.740	6.00	151.
25.0	8.42	18.1	.465	6.00	150.
30.0	6.50	20.0	.325	6.00	151.
35.0	4.55	20.0	.227	6.00	144.
40.0	3.33	20.0	.166	6.00	138.
45.0	2.86	20.0	.143	6.00	151.
50.0	2.37	20.0	.118	6.00	154.
60.0	1.70	20.0	.0850	6.00	159.
70.0	3.25	50.0	.0650	6.00	166.
80.0	1.30	31.1	.0418	6.00	139.
90.0	1.95	50.0	.0390	6.00	165.
100.	1.62	50.0	.0324	6.00	169.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	1946.2	1.70	-1.70	8.785E-04	3327.4
2	66.03	2.84	-4.55	0.0430	187.7
3	322.7	4.28	-8.84	0.0132	1384.7
4	87.31	8.78	-17.63	0.100	767.3
5	180.8				


PHAN 8
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
10
AB/2 (m)
1
10
100
1000

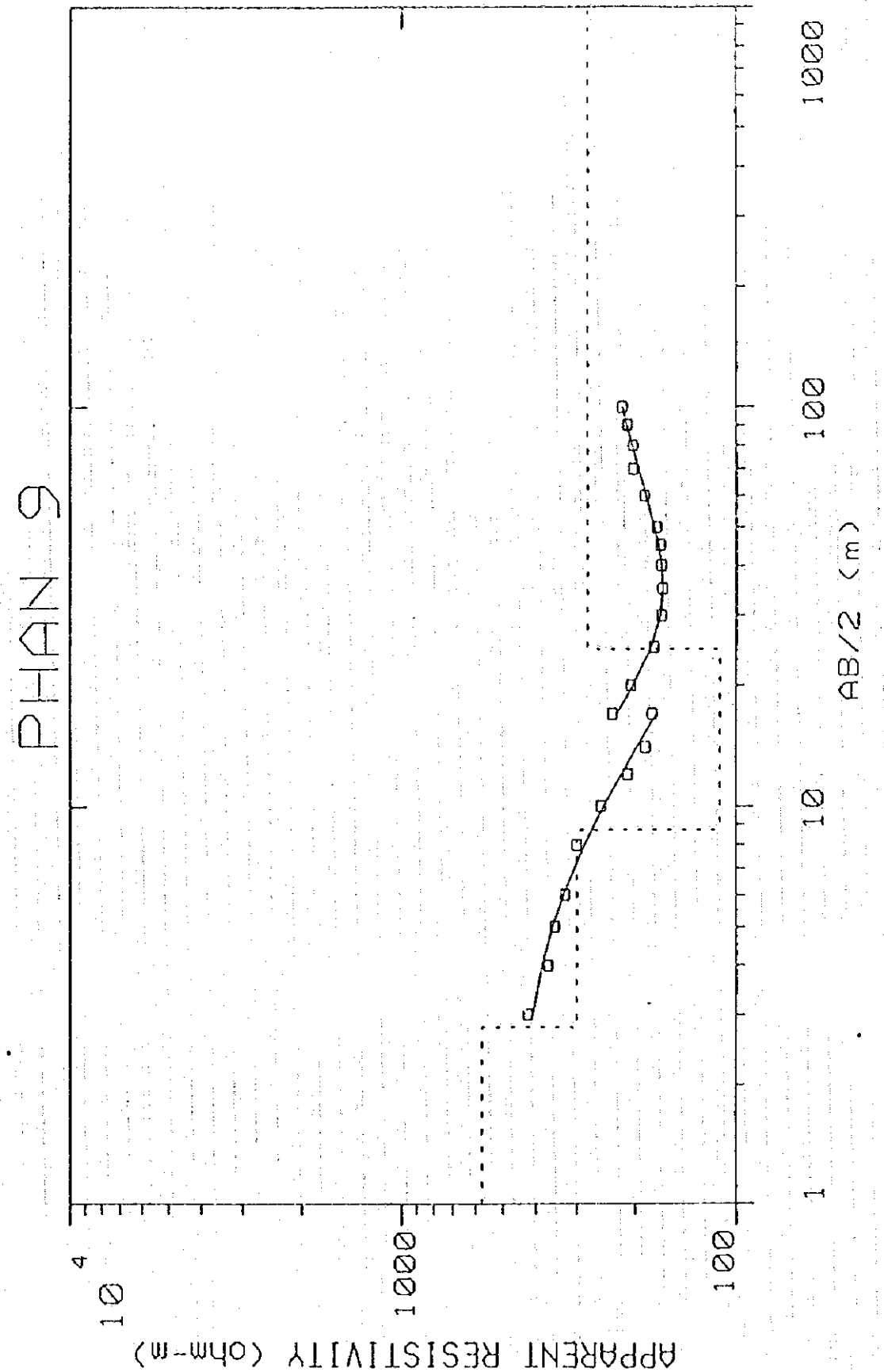
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	336.	10.0	33.6	2.00	422.
4.00	156.	10.0	15.6	2.00	367.
5.00	93.1	10.0	9.31	2.00	351.
6.00	59.4	10.0	5.94	2.00	326.
8.00	30.4	10.0	3.04	2.00	300.
10.0	16.3	10.0	1.63	2.00	253.
12.0	18.8	20.0	.940	2.00	211.
14.0	6.10	10.0	.610	2.00	186.
17.0	3.94	10.0	.394	2.00	178.
17.0	78.8	10.0	7.88	20.0	234.
20.0	43.8	10.0	4.38	20.0	206.
25.0	21.3	10.0	2.13	20.0	175.
30.0	13.3	10.0	1.33	20.0	167.
35.0	8.51	9.06	.939	20.0	166.
40.0	14.2	20.0	.710	20.0	167.
45.0	5.49	9.85	.557	20.0	168.
50.0	8.48	18.5	.458	20.0	172.
60.0	3.42	10.0	.342	20.0	188.
70.0	5.40	20.0	.270	20.0	203.
80.0	2.06	10.0	.206	20.0	203.
90.0	3.37	20.0	.168	20.0	211.
100.	2.82	20.0	.141	20.0	219.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	577.2	2.61	-2.61	0.00452	1506.7
2	319.8	5.37	-7.98	0.0168	1719.9
3	120.7	19.17	-27.16	0.158	2315.3
4	289.7				

ALL PARAMETERS ARE FREE


PHAN 9
APPARENT RESISTIVITY (ohm-m)
10000
1000
100
1
10
100
1000
AB/2 (m)

GEOPHYSICAL PROSPECTING (VERTICAL ELECTRIC SURVEY)

PHANGYUL SUB - AREA

DATA SHEET OF COMPUTER ANALYSIS

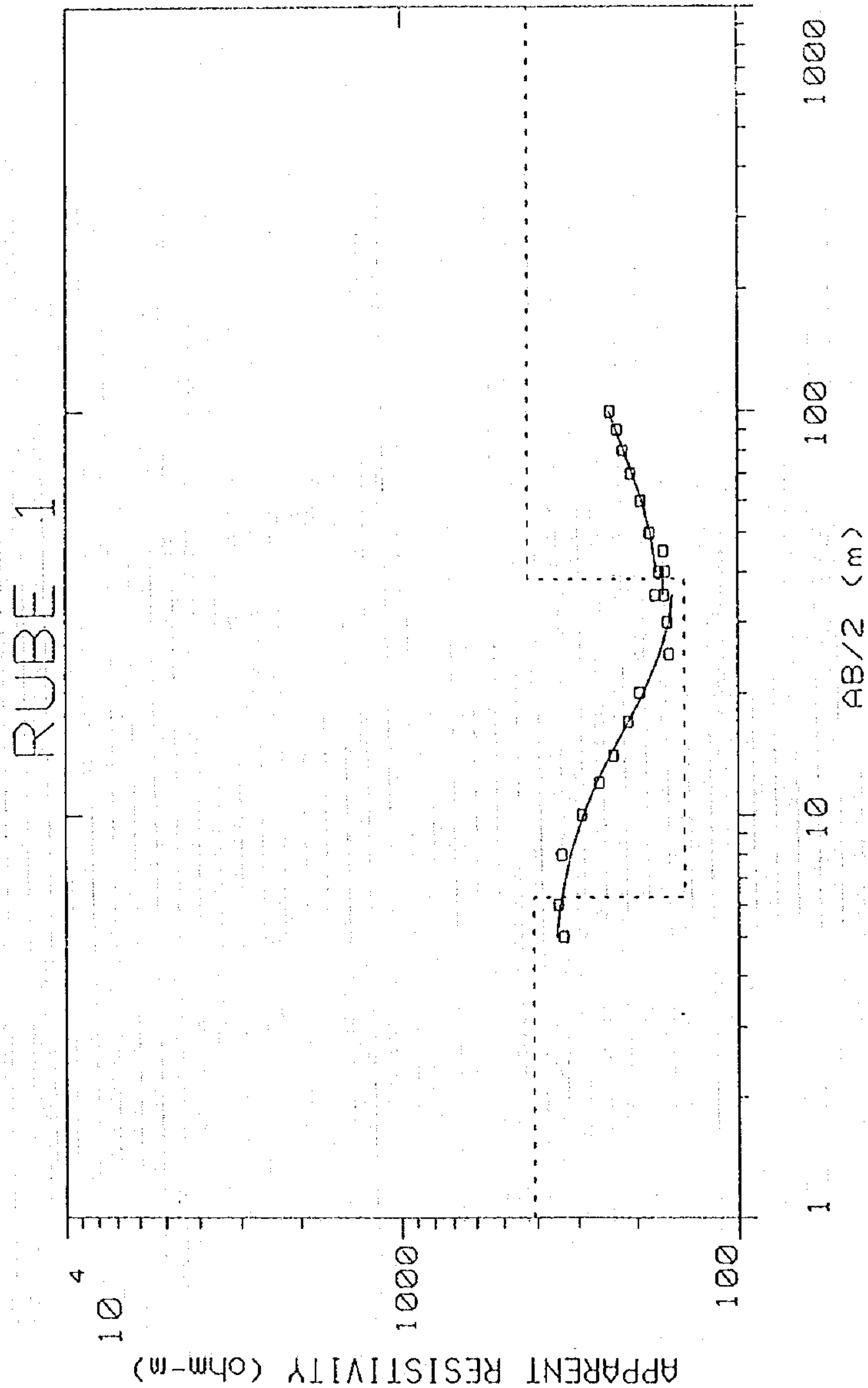
RUBE No.1 - RUBE No. 9

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
5.00	794.	20.0	39.7	6.00	332.
6.00	488.	20.0	24.4	6.00	345.
8.00	234.	20.0	11.7	6.00	337.
10.0	123.	20.0	6.15	6.00	293.
12.0	73.3	20.0	3.66	6.00	259.
14.0	48.0	20.0	2.40	6.00	235.
17.0	29.0	20.0	1.45	6.00	212.
20.0	19.2	20.0	.960	6.00	196.
25.0	24.8	50.0	.496	6.00	160.
30.0	17.4	50.0	.348	6.00	162.
35.0	13.0	50.0	.260	6.00	165.
35.0	49.8	50.0	.996	20.0	176.
40.0	9.85	50.0	.197	6.00	164.
40.0	36.5	50.0	.730	20.0	172.
45.0	27.5	50.0	.550	20.0	166.
50.0	24.2	50.0	.484	20.0	182.
60.0	17.7	50.0	.354	20.0	194.
70.0	13.8	50.0	.276	20.0	208.
80.0	4.44	20.0	.222	20.0	219.
90.0	3.64	20.0	.182	20.0	228.
100.	7.05	45.7	.154	20.0	240.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	408.4	6.27	-6.27	0.0153	2563.4
2	144.0	32.31	-38.59	0.224	4655.9
3	425.0				

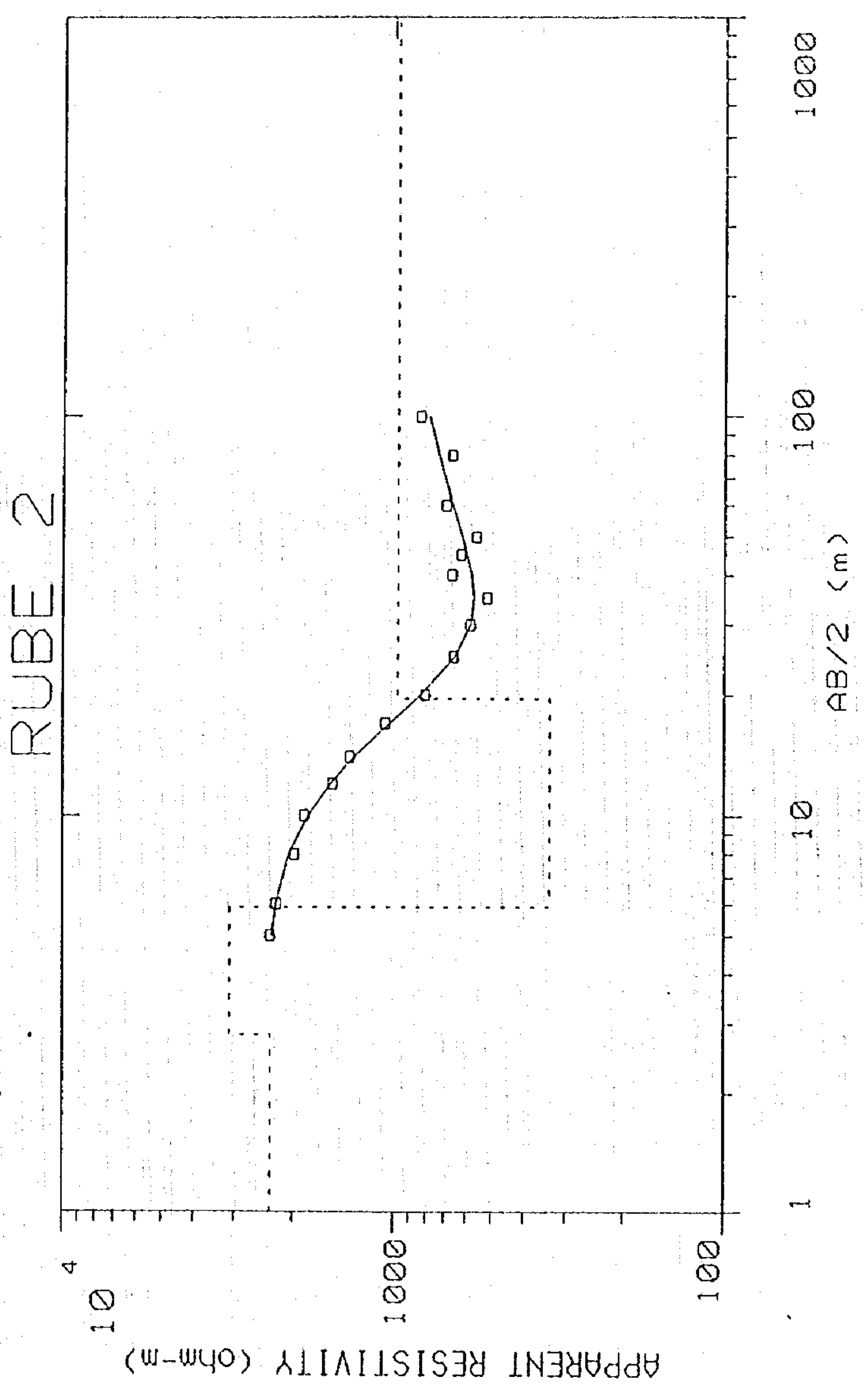

RUBE 1
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
AB/2 (m)
1
10
100
1000

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
5.00	2794.	10.0	279.	6.00	2340.
6.00	1590.	10.0	159.	6.00	2247.
8.00	690.	10.0	69.0	6.00	1987.
10.0	390.	10.0	39.0	6.00	1858.
12.0	216.	10.0	21.6	6.00	1526.
14.0	138.	10.0	13.8	6.00	1351.
17.0	72.3	10.0	7.23	6.00	1060.
20.0	39.3	10.0	3.93	6.00	805.
25.0	20.4	10.0	2.04	6.00	658.
30.0	12.5	10.0	1.25	6.00	583.
35.0	8.13	10.0	.813	6.00	517.
40.0	14.1	5.00	2.82	20.0	664.
45.0	10.3	5.00	2.06	20.0	623.
50.0	14.8	10.0	1.48	20.0	558.
60.0	6.30	5.00	1.26	20.0	693.
80.0	13.4	20.0	.670	20.0	663.
100.	10.7	20.0	.535	20.0	832.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	2333.7	2.79	-2.79	0.00120	6533.4
2	3102.8	3.09	-5.89	9.978E-04	9606.1
3	334.9	13.74	-19.64	0.0410	4605.5
4	975.4				


RUBE 2
AB/2 (m)
APPARENT RESISTIVITY (ohm-m)
1
10
100
1000
10^4
1000
100

APPARENT RESISTIVITY WORKSHEET:

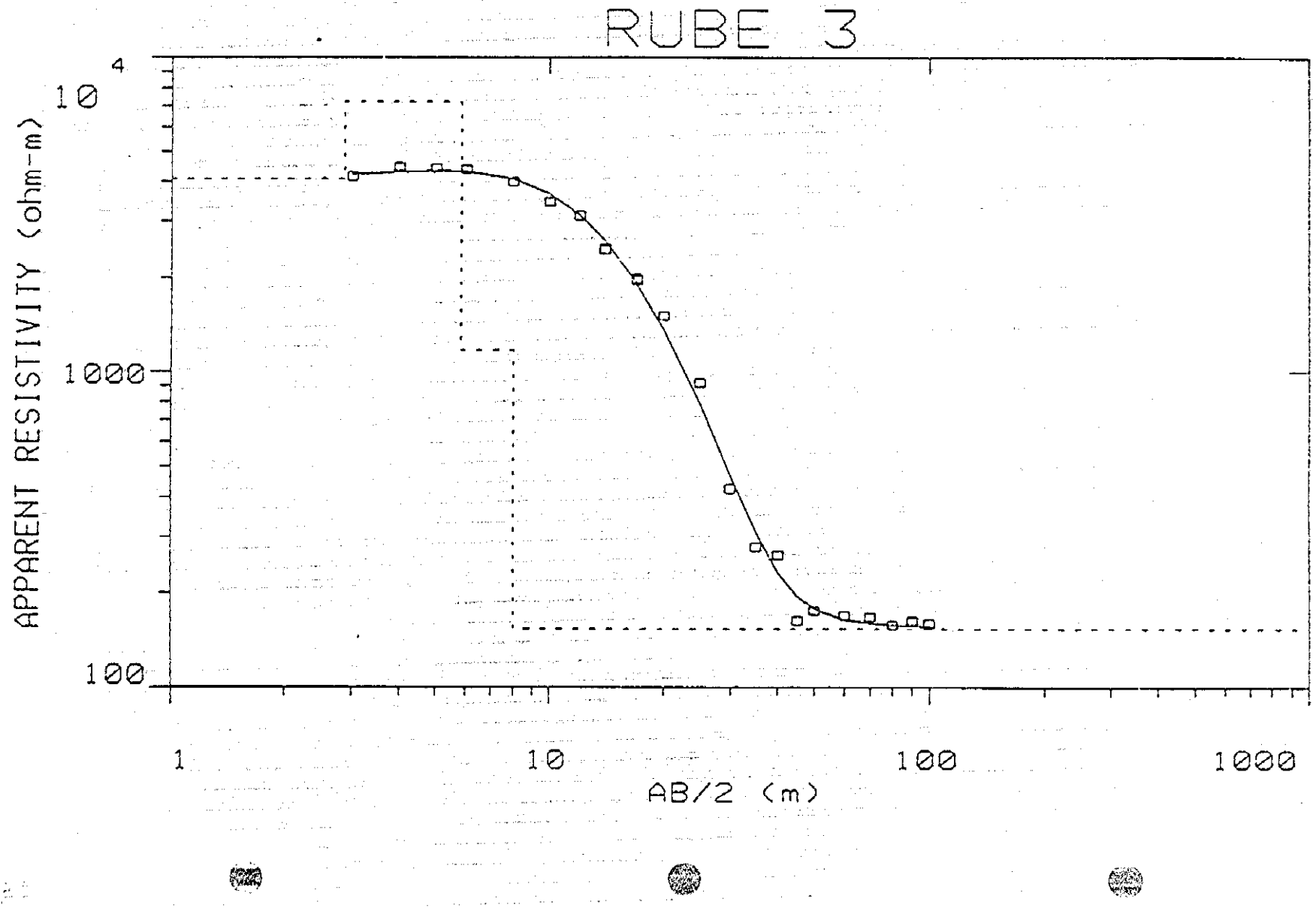
SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	1655.	5.00	331.	2.00	4159.
4.00	948.	5.00	189.	2.00	4467.
5.00	587.	5.00	117.	2.00	4426.
6.00	399.	5.00	79.8	2.00	4387.
8.00	202.	5.00	40.4	2.00	3998.
10.0	111.	5.00	22.2	2.00	3452.
12.0	69.6	5.00	13.9	2.00	3127.
14.0	40.0	5.00	8.00	2.00	2450.
14.0	126.	5.00	25.2	6.00	2467.
17.0	22.0	5.00	4.40	2.00	1990.
17.0	67.0	5.00	13.4	6.00	1964.
20.0	36.9	5.00	7.38	6.00	1511.
25.0	14.2	5.00	2.84	6.00	916.
30.0	9.08	10.0	.908	6.00	423.
35.0	4.37	10.0	.437	6.00	278.
40.0	5.29	16.8	.315	6.00	262.
45.0	3.08	20.0	.154	6.00	162.
50.0	2.68	20.0	.134	6.00	174.
60.0	1.80	20.0	.0900	6.00	169.
70.0	3.26	50.0	.0652	6.00	167.
80.0	2.35	50.0	.0470	6.00	157.
90.0	1.90	49.6	.0383	6.00	162.
100.	1.52	50.0	.0304	6.00	159.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	4053.8	2.73	-2.73	6.748E-04	11089.1
2	6975.8	3.15	-5.89	4.522E-04	22006.7
3	1116.5	2.28	-8.17	0.00204	2549.2
4	152.6				

* MINDECO *

442


RUBE 3
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
1
10
100
1000
AB/2 (m)

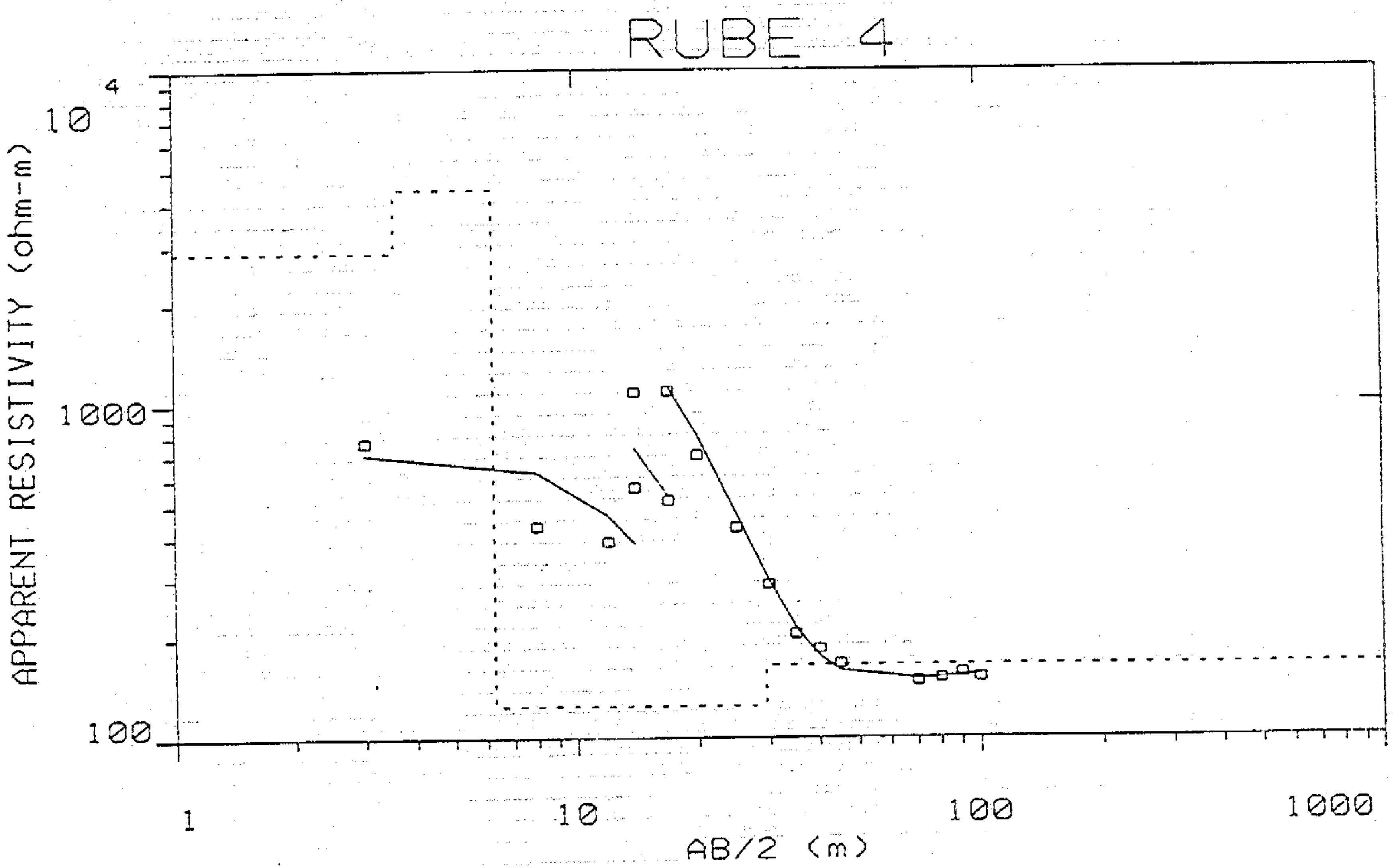
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	610.	10.0	61.0	2.00	766.
8.00	21.8	5.00	4.36	2.00	431.
12.0	17.3	10.0	1.73	2.00	388.
14.0	18.4	10.0	1.84	2.00	563.
14.0	711.	9.91	71.7	20.0	1081.
17.0	11.4	10.0	1.14	2.00	515.
17.0	368.	10.0	36.8	20.0	1092.
20.0	149.	10.0	14.9	20.0	702.
25.0	51.8	10.0	5.18	20.0	427.
30.0	22.9	10.0	2.29	20.0	287.
35.0	23.2	20.0	1.16	20.0	205.
40.0	3.92	5.00	.785	20.0	185.
45.0	11.0	20.0	.550	20.0	166.
70.0	3.91	20.0	.195	20.0	147.
80.0	3.04	20.0	.152	20.0	150.
90.0	2.48	20.0	.124	20.0	155.
100.	1.94	20.0	.0970	20.0	150.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	2874.7	3.56	-3.56	0.00124	10262.7
2	4405.6	2.67	-6.24	6.078E-04	11797.1
3	124.5	23.04	-29.29	0.185	2869.6
4	164.7				

443



RUBE 4
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
1
10
100
1000
AB/2 (m)

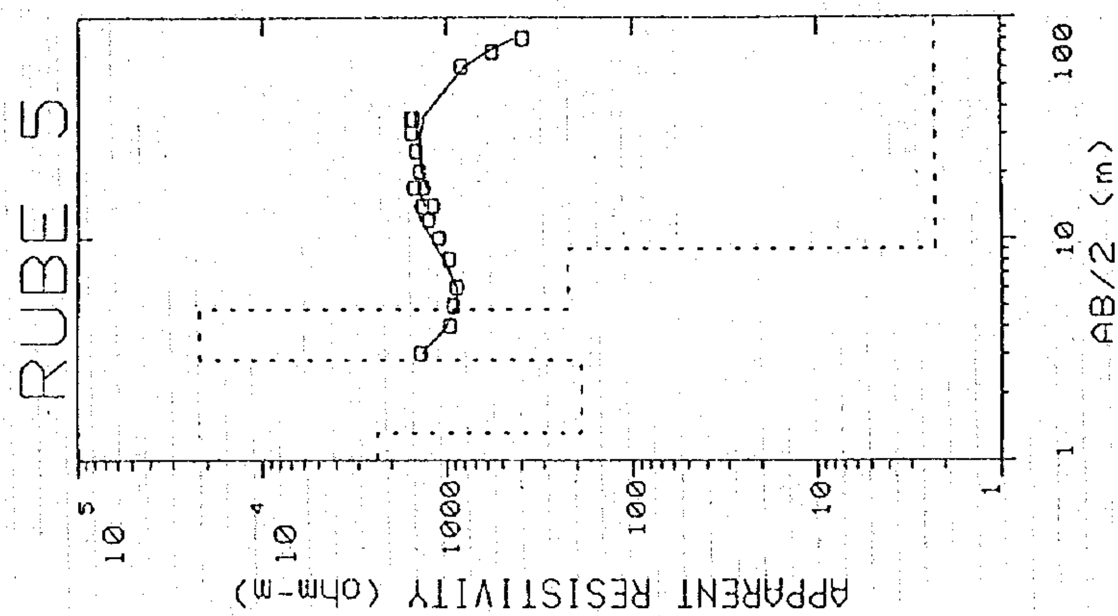
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	553.	5.00	110.	2.00	1389.
4.00	205.	5.00	41.0	2.00	966.
5.00	123.	5.00	24.6	2.00	927.
6.00	80.6	5.00	16.1	2.00	886.
8.00	49.2	5.00	9.84	2.00	974.
10.0	35.5	5.00	7.10	2.00	1104.
12.0	28.1	5.00	5.62	2.00	1262.
14.0	22.1	5.00	4.42	2.00	1353.
14.0	60.7	5.00	12.1	6.00	1188.
17.0	16.6	5.00	3.32	2.00	1502.
17.0	45.5	5.00	9.10	6.00	1334.
20.0	34.2	5.00	6.84	6.00	1400.
25.0	22.7	5.00	4.54	6.00	1464.
30.0	16.6	5.00	3.32	6.00	1548.
35.0	11.9	5.00	2.38	6.00	1515.
35.0	44.4	5.00	8.88	20.0	1569.
60.0	30.2	20.0	1.51	20.0	830.
70.0	14.1	18.9	.746	20.0	562.
80.0	7.84	20.0	.392	20.0	388.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	2375.4	1.31	-1.31	5.553E-04	3133.2
2	189.8	1.48	-2.79	0.00780	281.1
3	21893.3	1.97	-4.77	9.019E-05	43228.0
4	223.7	4.18	-8.95	0.0186	935.4
5	2.25				

444


RUBE 5
APPARENT RESISTIVITY (ohm-m)
10^5
10^4
1000
100
10
1
AB/2 (m)
1
10
100

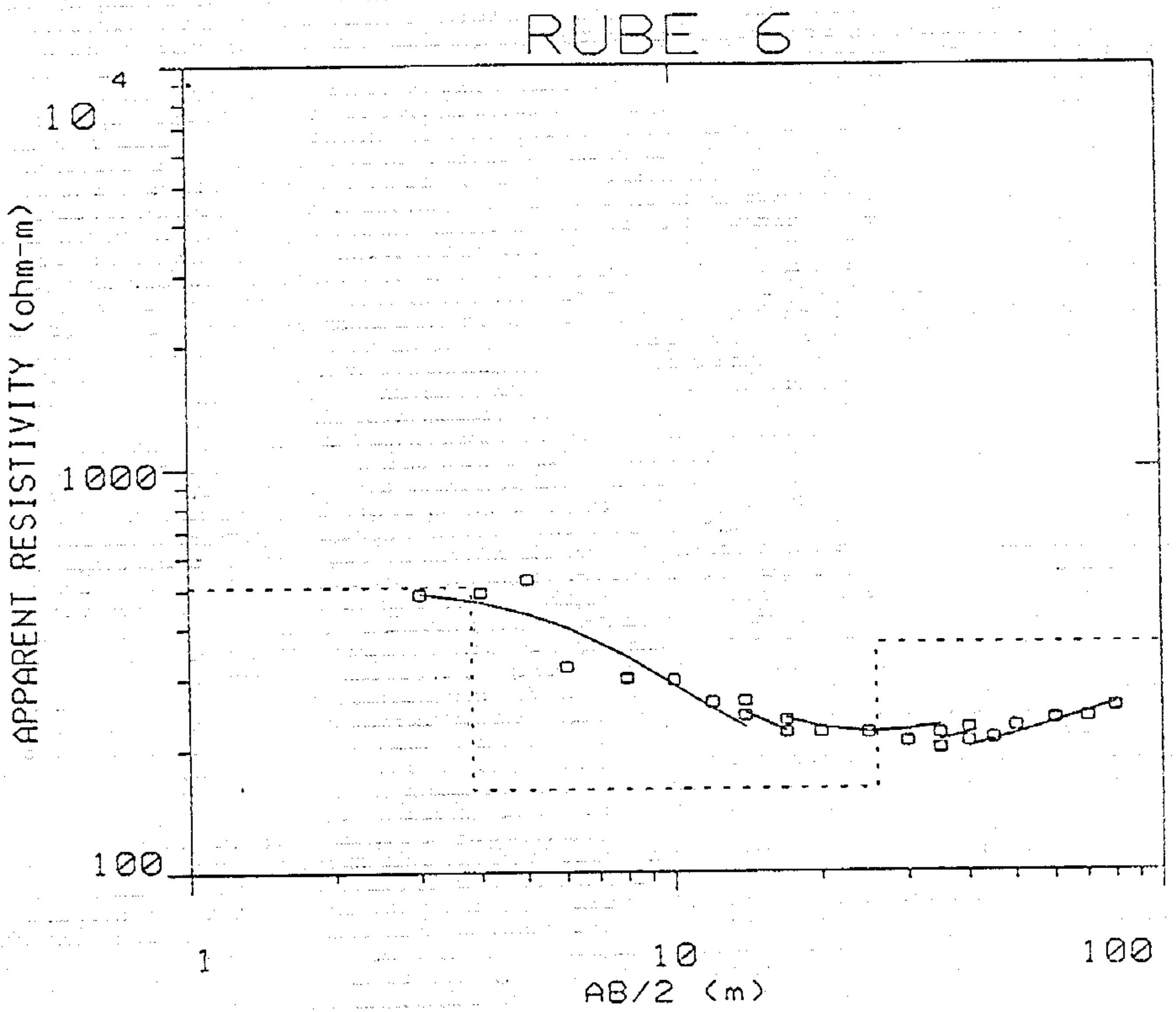
APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	193.	5.00	38.6	2.00	485.
4.00	104.	5.00	20.8	2.00	490.
5.00	69.8	5.00	13.9	2.00	526.
6.00	29.0	5.00	5.80	2.00	319.
8.00	15.1	5.00	3.02	2.00	299.
10.0	19.0	10.0	1.90	2.00	295.
12.0	11.6	10.0	1.16	2.00	260.
14.0	15.8	20.0	.790	2.00	242.
14.0	53.5	20.0	2.67	6.00	262.
17.0	9.70	20.0	.485	2.00	219.
17.0	32.1	20.0	1.60	6.00	235.
20.0	21.5	20.0	1.07	6.00	220.
25.0	13.6	20.0	.680	6.00	219.
30.0	22.3	50.0	.446	6.00	208.
35.0	17.1	50.0	.342	6.00	217.
35.0	56.7	50.0	1.13	20.0	200.
40.0	13.5	50.0	.270	6.00	225.
40.0	44.2	50.0	.884	20.0	208.
45.0	35.0	50.0	.700	20.0	211.
50.0	30.1	50.0	.602	20.0	227.
60.0	21.5	50.0	.430	20.0	236.
70.0	15.8	50.0	.316	20.0	238.
80.0	12.8	50.0	.256	20.0	253.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	507.1	3.83	-3.83	0.00757	1945.7
2	160.0	22.16	-26.00	0.138	3547.6
3	365.0				

445

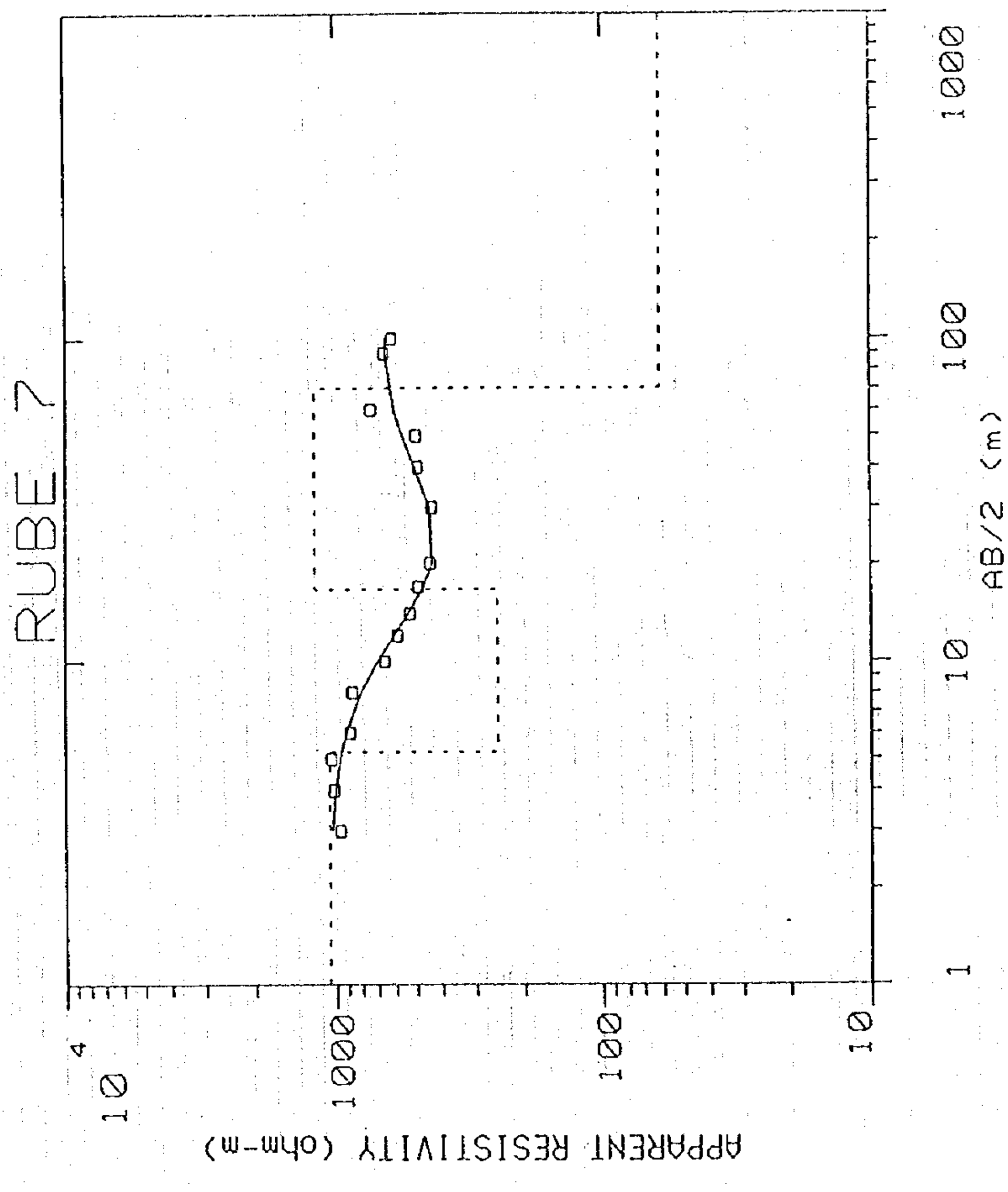

RUBE 6
10^4
1000
100
APPARENT RESISTIVITY (ohm-m)
1
10
100
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	770.	10.0	77.0	2.00	968.
4.00	433.	10.0	43.3	2.00	1020.
5.00	277.	10.0	27.7	2.00	1044.
6.00	161.	10.0	16.1	2.00	885.
8.00	87.7	10.0	8.77	2.00	868.
10.0	42.2	10.0	4.22	2.00	656.
12.0	26.2	10.0	2.62	2.00	588.
14.0	17.3	10.0	1.73	2.00	530.
17.0	10.9	10.0	1.09	2.00	493.
20.0	7.06	10.0	.706	2.00	442.
30.0	6.20	20.0	.310	2.00	437.
40.0	7.80	39.8	.196	2.00	492.
50.0	18.7	48.8	.383	6.00	500.
60.0	7.82	20.0	.391	6.00	735.
90.0	3.10	20.0	.155	6.00	656.
100.	2.34	20.0	.117	6.00	612.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	1057.9	5.23	-5.23	0.00495	5541.8
2	249.6	11.44	-16.68	0.0458	2857.8
3	1197.5	53.81	-70.50	0.0449	64446.4
4	60.77				


RUBE 7
AB/2 (m)
1
10
100
1000
APPARENT RESISTIVITY (ohm-m)
10^4
1000
100
10

APPARENT RESISTIVITY WORKSHEET:

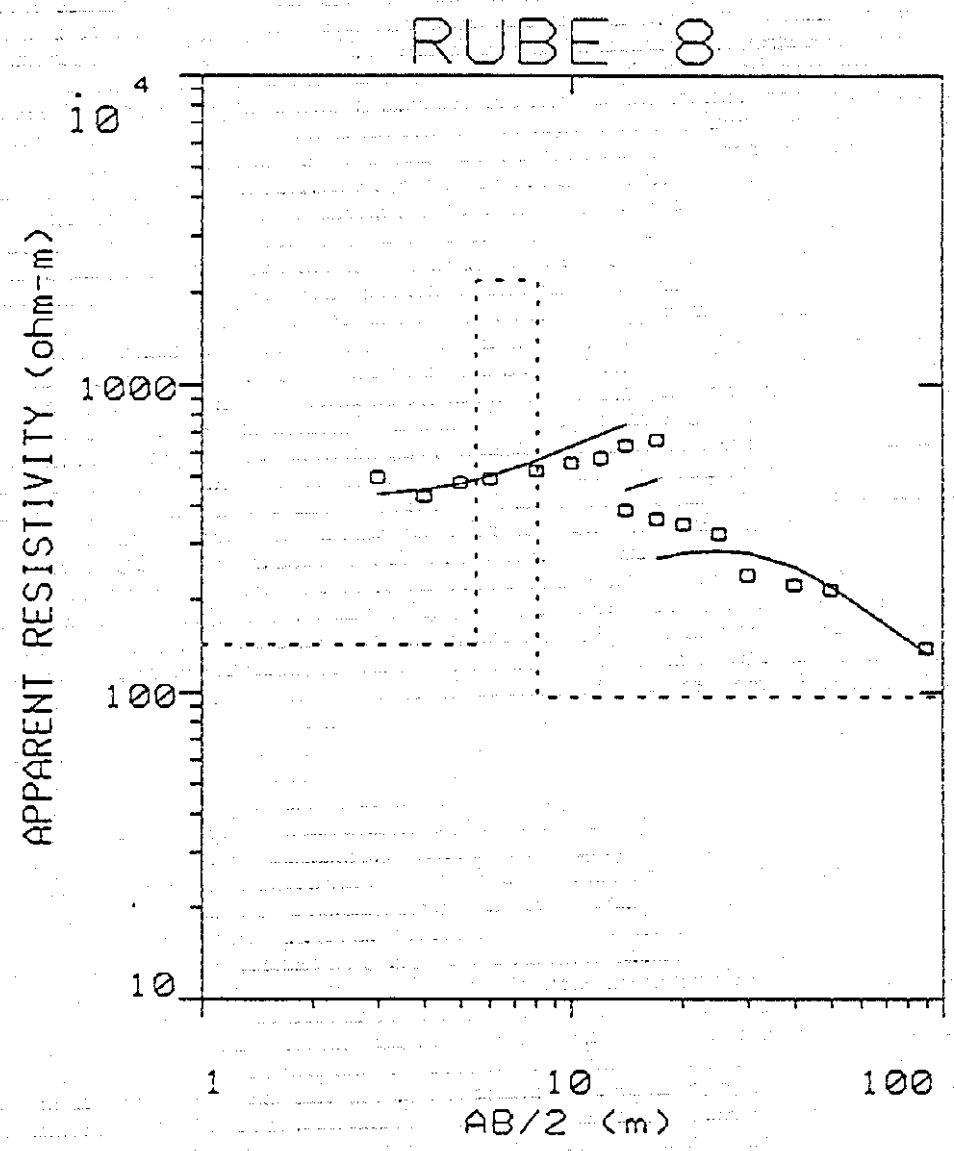
SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	398.	10.0	39.8	2.00	500.
4.00	183.	10.0	18.3	2.00	431.
5.00	127.	10.0	12.7	2.00	479.
6.00	89.9	10.0	8.99	2.00	494.
8.00	53.0	10.0	5.30	2.00	524.
10.0	35.7	10.0	3.57	2.00	555.
12.0	25.7	10.0	2.57	2.00	577.
14.0	20.7	10.0	2.07	2.00	634.
14.0	39.5	10.0	3.95	6.00	386.
17.0	14.6	10.0	1.46	2.00	660.
17.0	24.7	10.0	2.47	6.00	362.
20.0	17.0	10.0	1.70	6.00	348.
25.0	20.0	20.0	1.00	6.00	322.
30.0	10.2	20.0	.510	6.00	238.
40.0	5.31	20.0	.265	6.00	221.
50.0	7.26	44.3	.163	6.00	213.
90.0	1.64	50.0	.0328	6.00	139.

Apparent Resistivity Model

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	142.9	5.52	-5.52	0.0386	790.1
2	2190.3	2.57	-8.10	0.00118	5649.5
3	96.69				

* MINDECO *

447

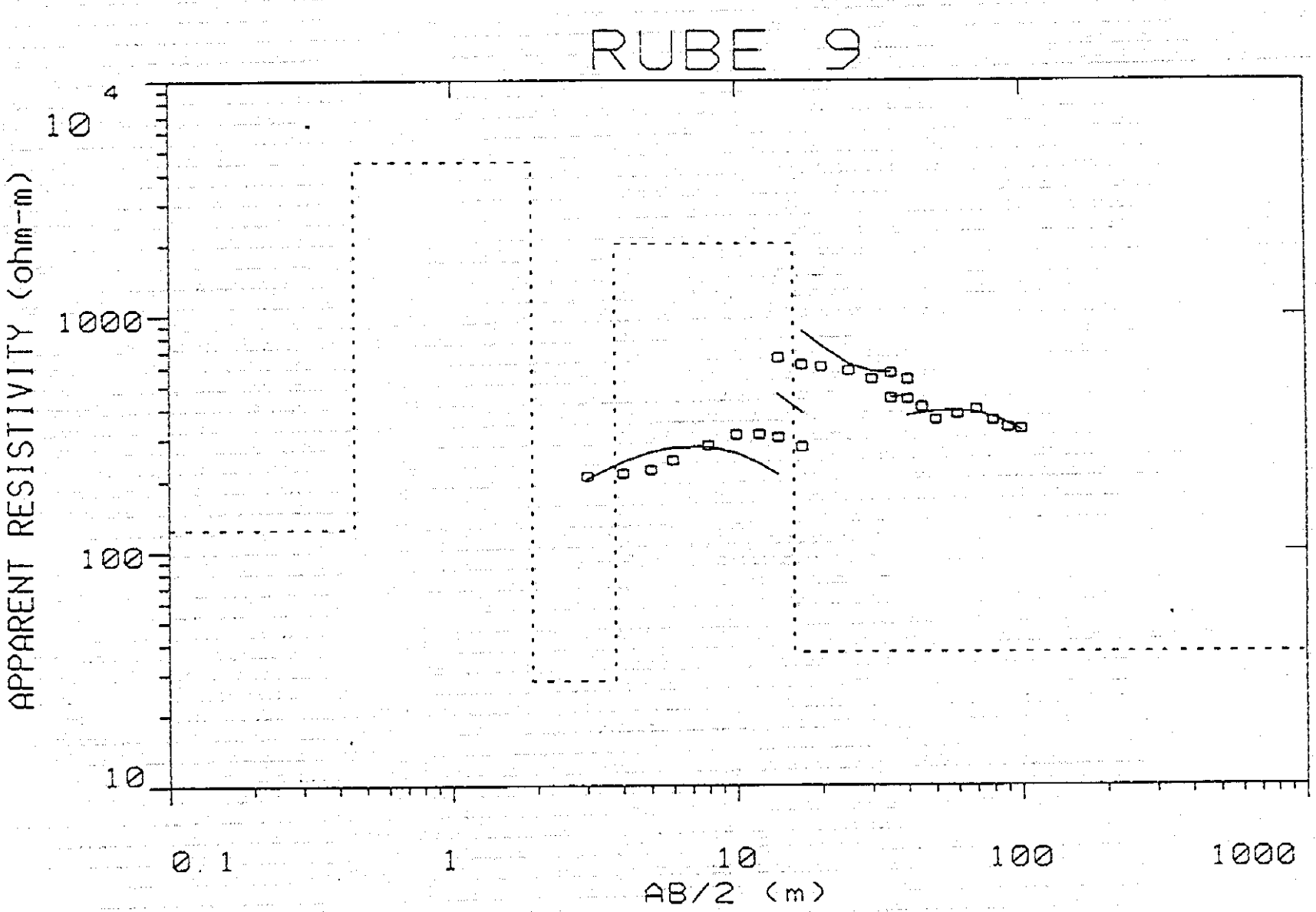

RUBE 8
10^4
1000
100
10
APPARENT RESISTIVITY (ohm-m)
1
10
100
AB/2 (m)

APPARENT RESISTIVITY WORKSHEET:

SPACING	V(mv)	I(ma)	V/I	MN(m)	APPARENT RESISTIVITY
3.00	166.	10.0	16.6	2.00	208.
4.00	91.0	10.0	9.10	2.00	214.
5.00	59.0	10.0	5.90	2.00	222.
6.00	44.3	10.0	4.43	2.00	243.
8.00	28.4	10.0	2.84	2.00	281.
10.0	20.0	10.0	2.00	2.00	311.
12.0	13.9	10.0	1.39	2.00	312.
14.0	9.88	10.0	.988	2.00	302.
14.0	67.2	10.0	6.72	6.00	658.
17.0	6.11	10.0	.611	2.00	276.
17.0	41.8	10.0	4.18	6.00	613.
20.0	29.4	10.0	2.94	6.00	602.
25.0	17.9	10.0	1.79	6.00	577.
30.0	11.4	10.0	1.14	6.00	532.
35.0	8.87	10.0	.887	6.00	565.
35.0	25.0	10.0	2.50	20.0	442.
40.0	6.38	10.0	.638	6.00	531.
40.0	18.6	10.0	1.86	20.0	438.
45.0	13.4	10.0	1.34	20.0	405.
50.0	19.0	20.0	.950	20.0	358.
60.0	13.7	20.0	.685	20.0	376.
70.0	10.5	20.0	.525	20.0	396.
80.0	7.19	20.0	.359	20.0	355.
90.0	5.29	20.0	.264	20.0	332.
100.	4.20	20.0	.210	20.0	326.

---------- Apparent Resistivity Model ----------

L #	RESISTIVITY (ohm-m)	THICKNESS (meters)	ELEVATION (meters)	LONG. COND. (Siemens)	TRANS. RES. (Ohm-m^2)
			0.0		
1	125.1	0.450	-0.450	0.00360	56.38
2	4518.1	1.46	-1.91	3.238E-04	6610.0
3	27.99	1.82	-3.74	0.0652	51.15
4	2021.3	12.16	-15.90	0.00602	24595.7
5	36.75				


RUBE 9
APPARENT RESISTIVITY (ohm-m)
10 4
1000
100
10
0.1
1
10
100
1000
AB/2 (m)

(3) GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. LOBEYSA 1 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	15	5	10	5	31.4	361	20	567.05747	
5	20	10	15	5	31.4	366	20	574.91146	
10	25	15	20	5	31.4	307	20	482.23447	
15	30	20	25	5	31.4	315	20	494.80084	
20	35	25	30	5	31.4	267	20	419.40262	
25	40	30	35	5	31.4	324.0	20.0	508.93801	
30	45	35	40	5	31.4	232.0	20.0	364.42475	
35	50	40	45	5	31.4	310.0	20.0	486.94686	
40	55	45	50	5	31.4	239.0	20.0	375.42032	
45	60	50	55	5	31.4	318.0	20.0	499.51323	
50	65	55	60	5	31.4	276.0	20.0	433.53979	
55	70	60	65	5	31.4	240.0	20.0	376.99112	
60	75	65	70	5	31.4	231.0	20.0	362.85395	
65	80	70	75	5	31.4	238.0	20	373.84953	
70	85	75	80	5	31.4	238.0	20.0	373.84953	
75	90	80	85	5	31.4	349.0	20.0	548.20792	
80	95	85	90	5	31.4	293.0	20.0	460.24332	
85	100	90	95	5	31.4	325.0	20.0	510.50881	
0	30	10	20	10	62.8	188.0	20.00	590.61942	
5	35	15	25	10	62.8	171.0	20	537.21234	
10	40	20	30	10	62.8	199.0	20.00	625.17694	
15	45	25	35	10	62.8	216.0	20	678.58401	
20	50	30	40	10	62.8	215.0	20.00	675.44242	
25	55	35	45	10	62.8	199.0	20	625.17694	
30	60	40	50	10	62.8	186.0	20.00	584.33623	
35	65	45	55	10	62.8	190.0	20	596.9026	
40	70	50	60	10	62.8	168.0	20.0	527.78757	
45	75	55	65	10	62.8	189.0	20.0	593.76101	
50	80	60	70	10	62.8	165.0	20.0	518.36279	
55	85	65	75	10	62.8	163.0	20.0	512.0796	
60	90	70	80	10	62.8	183.0	20.0	574.91146	
65	95	75	85	10	62.8	212.0	20.0	666.01764	
70	100	80	90	10	62.8	287.0	20.0	901.63709	

$K = 2 * \pi * a$

450

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. LOBEYSA 1 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	45	15	30	15	94.2	107	20	504.22562	
5	50	20	35	15	94.2	113	20	532.49995	
10	55	25	40	15	94.2	129	20	607.89818	
15	60	30	45	15	94.2	137	20	645.59729	
20	65	35	50	15	94.2	127	20	598.4734	
25	70	40	55	15	94.2	145.0	20.0	683.2964	
30	75	45	60	15	94.2	146.0	20.0	687.66	
35	80	50	65	15	94.2	151.0	20.0	711.21	
40	85	55	70	15	94.2	121.0	20.0	569.91	
45	90	60	75	15	94.2	120.0	20.0	565.2	
50	95	65	80	15	94.2	119.0	20.0	560.49	
55	100	70	85	15	94.2	143.0	20.0	673.53	
0	60	20	40	20	125.7	65.8	20.0	413.43359	
5	65	25	45	20	125.7	75.8	20	476.26545	
10	70	30	50	20	125.7	90.7	20.0	569.88491	
15	75	35	55	20	125.7	98.0	20.0	615.93	
20	80	40	60	20	125.7	106.0	20.0	666.21	
25	85	45	65	20	125.7	97.0	20.0	609.645	
30	90	50	70	20	125.7	119.0	20.0	747.915	
35	95	55	75	20	125.7	92.3	20	580.1055	
40	100	60	80	20	125.7	84.0	20.00	527.94	
0	75	25	50	25	157.1	51.4	20	403.747	
5	80	30	55	25	157.1	58.2	20.00	457.161	
10	85	35	60	25	157.1	64.3	20	505.0765	
15	90	40	65	25	157.1	68.8	20.00	540.424	
20	95	45	70	25	157.1	66.0	20	518.43	
25	100	50	75	25	157.1	68.8	20.0	540.424	
0	90	30	60	30	188.5	40.5	20.0	381.7125	
5	95	35	65	30	188.5	41.8	20.0	393.965	
10	100	40	70	30	188.5	44.0	20.0	414.7	

$K = 2 * \pi * a$

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. LOBEYSA 2 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	15	5	10	5	31.4	131	20	205.77432	
5	20	10	15	5	31.4	115	20	180.64158	
10	25	15	20	5	31.4	122	20	191.63715	
15	30	20	25	5	31.4	82.5	20	129.5907	
20	35	25	30	5	31.4	94.5	20	148.44025	
25	40	30	35	5	31.4	94.3	20.0	148.12609	
30	45	35	40	5	31.4	74.7	20.0	117.33849	
35	50	40	45	5	31.4	68.2	20.0	107.12831	
40	55	45	50	5	31.4	63.5	20.0	99.745567	
45	60	50	55	5	31.4	66.0	20.0	103.67256	
50	65	55	60	5	31.4	59.2	20.0	92.991143	
55	70	60	65	5	31.4	50.9	20.0	79.953533	
60	75	65	70	5	31.4	56.7	20.0	89.064152	
65	80	70	75	5	31.4	45.1	20	70.842914	
70	85	75	80	5	31.4	35.9	20.0	56.391588	
75	90	80	85	5	31.4	36.1	20.0	56.705747	
80	95	85	90	5	31.4	21.4	20.0	33.615041	
85	100	90	95	5	31.4	28.0	20.0	43.982297	
0	30	10	20	10	62.8	73.7	20.00	231.53538	
5	35	15	25	10	62.8	65.9	20	207.03096	
10	40	20	30	10	62.8	47.0	20.00	147.65485	
15	45	25	35	10	62.8	49.8	20	156.45131	
20	50	30	40	10	62.8	48.1	20.00	151.11061	
25	55	35	45	10	62.8	44.1	20	138.54424	
30	60	40	50	10	62.8	40.3	20.00	126.60618	
35	65	45	55	10	62.8	36.6	20	114.98229	
40	70	50	60	10	62.8	40.7	20.0	127.86282	
45	75	55	65	10	62.8	35.4	20.0	111.21238	
50	80	60	70	10	62.8	29.8	20.0	93.619461	
55	85	65	75	10	62.8	24.9	20.0	78.225657	
60	90	70	80	10	62.8	25.3	20.0	79.482294	
65	95	75	85	10	62.8	22.2	20.0	69.743357	
70	100	80	90	10	62.8	18.9	20.0	59.376101	

$K = 2 * \pi * a$

451

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. LOBEYSA 2 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	45	15	30	15	94.2	40.8	20	192.26547	
5	50	20	35	15	94.2	36.3	20	171.05972	
10	55	25	40	15	94.2	33.5	20	157.86503	
15	60	30	45	15	94.2	30	20	141.37167	
20	65	35	50	15	94.2	27.1	20	127.70574	
25	70	40	55	15	94.2	24.7	20.0	116.39601	
30	75	45	60	15	94.2	24.8	20.0	116.808	
35	80	50	65	15	94.2	24.8	20.0	116.808	
40	85	55	70	15	94.2	21.3	20.0	100.323	
45	90	60	75	15	94.2	17.0	20.0	80.07	
50	95	65	80	15	94.2	15.6	20.0	73.476	
55	100	70	85	15	94.2	15.3	20.0	72.063	
0	60	20	40	20	125.7	24.0	20.0	150.79645	
5	65	25	45	20	125.7	23.6	20	148.28317	
10	70	30	50	20	125.7	21.3	20.0	133.83185	
15	75	35	55	20	125.7	19.1	20.0	120.0435	
20	80	40	60	20	125.7	19.4	20.0	121.929	
25	85	45	65	20	125.7	16.4	20.0	103.074	
30	90	50	70	20	125.7	16.3	20.0	102.4455	
35	95	55	75	20	125.7	15.1	20	94.9035	
40	100	60	80	20	125.7	12.1	20.00	76.0485	
0	75	25	50	25	157.1	17.2	20	135.106	
5	80	30	55	25	157.1	16.8	20.00	131.964	
10	85	35	60	25	157.1	14.8	20	116.254	
15	90	40	65	25	157.1	13.4	20.00	105.257	
20	95	45	70	25	157.1	13.3	20	104.4715	
25	100	50	75	25	157.1	12.5	20.0	98.1875	
0	90	30	60	30	188.5	13.6	20.0	128.18	
5	95	35	65	30	188.5	12.1	20.0	114.0425	
10	100	40	70	30	188.5	10.9	20.0	102.7325	

$K = 2 * \pi * a$

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. BAJO 1 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	45	15	30	15	94.2	47.5	20	223.83848	
5	50	20	35	15	94.2	44.8	20	211.11503	
10	55	25	40	15	94.2	43.8	20	206.40264	
15	60	30	45	15	94.2	45.8	20	215.82742	
20	65	35	50	15	94.2	41.6	20	196.03538	
25	70	40	55	15	94.2	37.6	20.0	177.18583	
30	75	45	60	15	94.2	31.6	20.0	148.836	
35	80	50	65	15	94.2	30.6	20.0	144.126	
40	85	55	70	15	94.2	30.3	20.0	142.713	
45	90	60	75	15	94.2	25.6	20.0	120.576	
50	95	65	80	15	94.2	26.8	20.0	126.228	
55	100	70	85	15	94.2	25.8	20.0	121.518	
0	60	20	40	20	125.7	41.6	20.0	261.38051	
5	65	25	45	20	125.7	42.2	20	265.15042	
10	70	30	50	20	125.7	38.8	20.0	243.78759	
15	75	35	55	20	125.7	17.9	10.0	225.003	
20	80	40	60	20	125.7	33.3	20.0	209.2905	
25	85	45	65	20	125.7	27.5	20.0	172.8375	
30	90	50	70	20	125.7	26.9	20.0	169.0665	
35	95	55	75	20	125.7	26.2	20	164.667	
40	100	60	80	20	125.7	32.8	20.00	206.148	
0	75	25	50	25	157.1	37.3	20	292.9915	
5	80	30	55	25	157.1	33.9	20.00	266.2845	
10	85	35	60	25	157.1	31.8	20	249.789	
15	90	40	65	25	157.1	29.0	20.00	227.795	
20	95	45	70	25	157.1	24.5	20	192.4475	
25	100	50	75	25	157.1	23.4	20.0	183.807	
0	90	30	60	30	188.5	27.8	20.0	262.015	
5	95	35	65	30	188.5	27.6	20.0	260.13	
10	100	40	70	30	188.5	25.5	20.0	240.3375	

$K = 2 * \pi * a$

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. BAJO 1 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	15	5	10	5	31.4	65.4	20	102.73008	
5	20	10	15	5	31.4	67.1	20	105.40043	
10	25	15	20	5	31.4	70.3	20	110.42698	
15	30	20	25	5	31.4	68.7	20	107.91371	
20	35	25	30	5	31.4	80.1	20	125.82079	
25	40	30	35	5	31.4	79.0	20.0	124.09291	
30	45	35	40	5	31.4	67.0	20.0	105.24335	
35	50	40	45	5	31.4	81.9	20.0	128.64822	
40	55	45	50	5	31.4	49.5	20.0	77.754418	
45	60	50	55	5	31.4	4.7	2.0	73.984507	
50	65	55	60	5	31.4	44.8	20.0	70.371675	
55	70	60	65	5	31.4	43.1	20.0	67.701322	
60	75	65	70	5	31.4	13.8	5.0	86.707957	
65	80	70	75	5	31.4	47.5	20	74.612826	
70	85	75	80	5	31.4	53.5	20.0	84.037603	
75	90	80	85	5	31.4	45.9	20.0	72.099551	
80	95	85	90	5	31.4	51.2	20.0	80.424772	
85	100	90	95	5	31.4	45.3	20.0	71.157074	
0	30	10	20	10	62.8	57.6	20.00	180.95574	
5	35	15	25	10	62.8	138.0	50	173.41591	
10	40	20	30	10	62.8	146.0	50.00	183.46901	
15	45	25	35	10	62.8	136.0	50	170.90264	
20	50	30	40	10	62.8	126.0	50.00	158.33627	
25	55	35	45	10	62.8	52.7	20	165.56193	
30	60	40	50	10	62.8	47.9	20.00	150.48229	
35	65	45	55	10	62.8	35.2	20	110.58406	
40	70	50	60	10	62.8	29.4	20.0	92.362824	
45	75	55	65	10	62.8	36.3	20.0	114.03981	
50	80	60	70	10	62.8	27.1	20.0	85.137161	
55	85	65	75	10	62.8	29.2	20.0	91.734505	
60	90	70	80	10	62.8	7.4	5.0	93.493797	
65	95	75	85	10	62.8	31.3	20.0	98.33185	
70	100	80	90	10	62.8	33.1	20.0	103.98672	

$K = 2 * \pi * a$

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. BAJO 2 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	15	5	10	5	31.4	44.6	20	70.057516	
5	20	10	15	5	31.4	42.5	20	66.758844	
10	25	15	20	5	31.4	43.1	20	67.701322	
15	30	20	25	5	31.4	42.9	20	67.387162	
20	35	25	30	5	31.4	43	20	67.544242	
25	40	30	35	5	31.4	43.3	20.0	68.015481	
30	45	35	40	5	31.4	43.0	20.0	67.544242	
35	50	40	45	5	31.4	26.1	20.0	40.997784	
40	55	45	50	5	31.4	24.5	20.0	38.48451	
45	60	50	55	5	31.4	68.6	20.0	107.75663	
50	65	55	60	5	31.4	65.6	20.0	103.04424	
55	70	60	65	5	31.4	72.5	20.0	113.88273	
60	75	65	70	5	31.4	76.8	20.0	120.63716	
65	80	70	75	5	31.4	96.6	20	151.73893	
70	85	75	80	5	31.4	64.1	20.0	100.68804	
75	90	80	85	5	31.4	60.8	20.0	95.504417	
80	95	85	90	5	31.4	57.8	20.0	90.792028	
85	100	90	95	5	31.4	56.9	20.0	89.378311	
0	30	10	20	10	62.8	22.6	20.00	70.999994	
5	35	15	25	10	62.8	22.1	20	69.429198	
10	40	20	30	10	62.8	23.0	20.00	72.256631	
15	45	25	35	10	62.8	22.9	20	71.942472	
20	50	30	40	10	62.8	19.2	20.00	60.318579	
25	55	35	45	10	62.8	18.0	20	56.548668	
30	60	40	50	10	62.8	11.3	10.00	70.999994	
35	65	45	55	10	62.8	19.1	20	60.00442	
40	70	50	60	10	62.8	22.9	20.0	71.942472	
45	75	55	65	10	62.8	24.5	20.0	76.96902	
50	80	60	70	10	62.8	27.8	20.0	87.336276	
55	85	65	75	10	62.8	30.8	20.0	96.761054	
60	90	70	80	10	62.8	29.7	20.0	93.305302	
65	95	75	85	10	62.8	29.1	20.0	91.420346	
70	100	80	90	10	62.8	31.0	20.0	97.389372	

$K = 2 * \pi * a$

GEOPHYSICAL PROSPECTING (HORIZONTAL ELECTRIC SURVEY)

SURVEY AREA : WANGDUEPHODRANG DISTRICT IN BHUTAN

STATION NO. BAJO 2 DIRECTION OF PROFILE

A	B	M	N	a(m)	K	V(mV)	I(mA)	ρa(Ωm)	REMARKES
0	45	15	30	15	94.2	17.4	20	81.995568	
5	50	20	35	15	94.2	17	20	80.110613	
10	55	25	40	15	94.2	17.3	20	81.524329	
15	60	30	45	15	94.2	7.22	10	68.046897	
20	65	35	50	15	94.2	7.95	10	74.926985	
25	70	40	55	15	94.2	9.2	10.0	86.707957	
30	75	45	60	15	94.2	3.7	5.0	68.766	
35	80	50	65	15	94.2	18.7	20.0	88.077	
40	85	55	70	15	94.2	19.3	20.0	90.903	
45	90	60	75	15	94.2	22.0	20.0	103.62	
50	95	65	80	15	94.2	21.6	20.0	101.736	
55	100	70	85	15	94.2	54.1	50.0	101.9244	
0	60	20	40	20	125.7	32.4	50.0	81.430082	
5	65	25	45	20	125.7	13.3	20	83.566365	
10	70	30	50	20	125.7	25.5	50.0	64.08849	
15	75	35	55	20	125.7	39.7	50.0	99.8058	
20	80	40	60	20	125.7	36.4	50.0	91.5096	
25	85	45	65	20	125.7	34.3	50.0	86.2302	
30	90	50	70	20	125.7	42.4	50.0	106.5936	
35	95	55	75	20	125.7	46.9	50	117.9066	
40	100	60	80	20	125.7	46.5	50.00	116.901	
0	75	25	50	25	157.1	24.8	50	77.9216	
5	80	30	55	25	157.1	36.3	50.00	114.0546	
10	85	35	60	25	157.1	35.9	50	112.7978	
15	90	40	65	25	157.1	15.1	20.00	118.6105	
20	95	45	70	25	157.1	15.2	20	119.396	
25	100	50	75	25	157.1	15.5	20.0	121.7525	
0	90	30	60	30	188.5	33.6	50.0	126.672	
5	95	35	65	30	188.5	35.0	50.0	131.95	
10	100	40	70	30	188.5	34.3	50.0	129.311	

$K = 2 * \pi * a$

(4) GEOPHYSICAL PROSPECTING (VLF ELECTRO MAGNETIC SURVEY)

DATA SHEET AND PROFILE

GEOPHYSICAL PROSPECTING

(VLF ELECTRO MAGNETIC SURVEY)

DATA SHEET AND PROFILE

LOBEYSA SUB-AREA

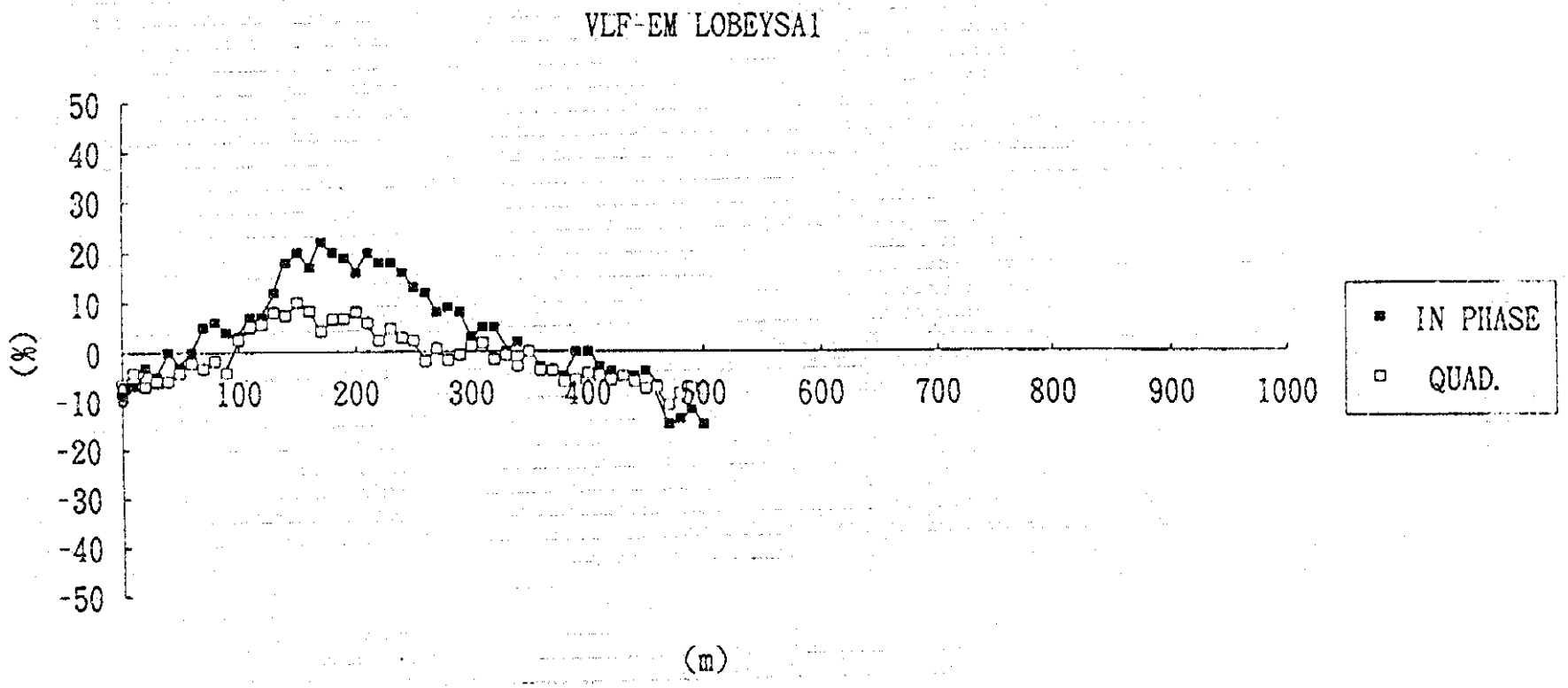
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. LOBEYSA 1

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-9	-6.5	
10	-7	-4.2	
20	-3	-7	
30	-5	-6	
40	0	-5.8	
50	-3	-4.2	
60	0	-2.2	
70	5	-3.3	
80	6	-1.7	
90	4	-4.2	
100	3	2.5	
110	7	5	
120	7	5.6	
130	12	8	
140	18	7.4	
150	20	10	
160	17	8.2	
170	22	4.2	
180	20	6.6	
190	19	6.7	
200	16	8	
210	20	5.8	
220	18	2.2	
230	18	4.7	
240	16	2.8	
250	13	2.3	
260	12	-2	
270	8	0.6	
280	9	-1.8	
290	8	-0.6	
300	3	1	
310	5	1.8	
320	5	-1.6	
330	0	-0.7	
340	2	-3	
350	0	0	
360	-3	-3.9	
370	-4	-3.9	
380	-5	-6.2	
390	0	-5.8	
400	0	-4.4	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	-3	-5	
420	-4	-5.8	
430	-5	-5	
440	-5	-6.2	
450	-4	-7.6	
460	-7	-7.3	
470	-15	-11	
480	-14	-8.6	
490	-12	-7.5	
500	-15	-7.7	


VLF-EM LOBEYSA1
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

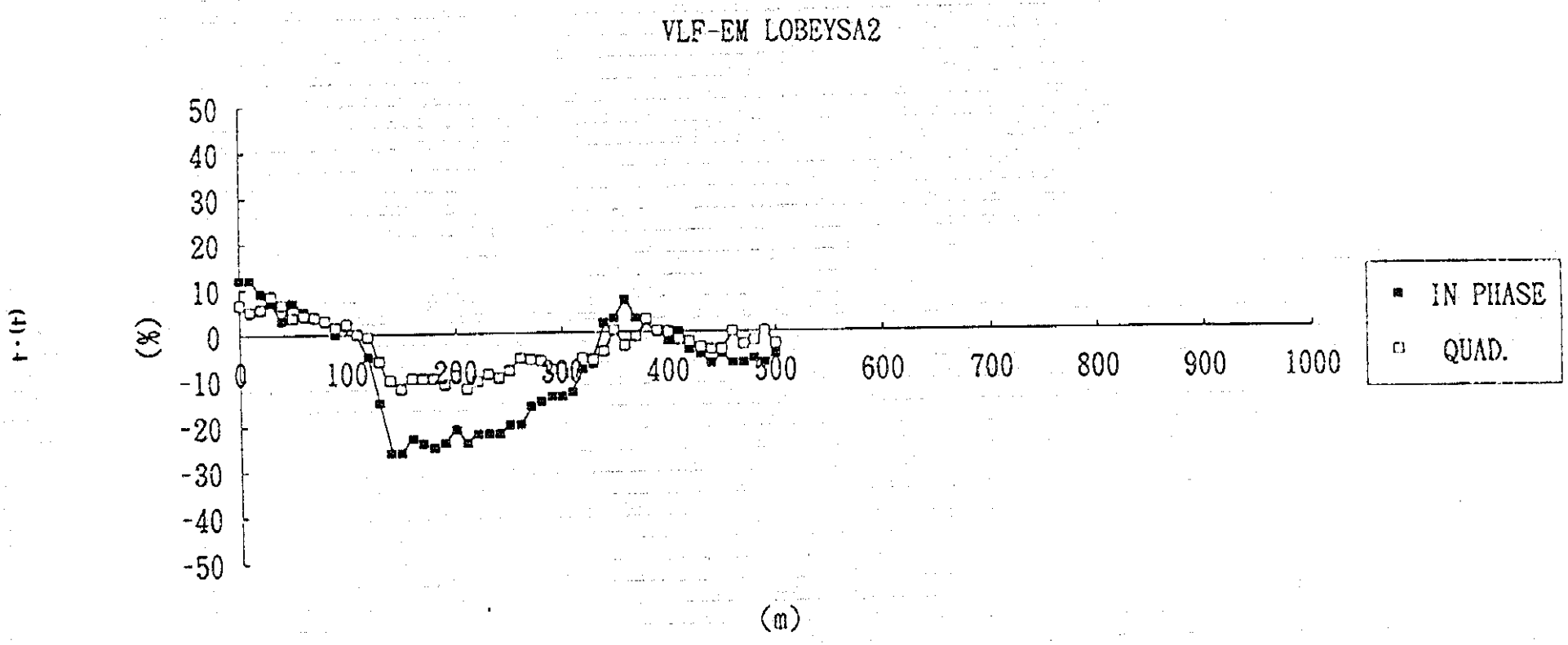
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. LOBEYSA 2

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	12	6.6	
10	12	5	
20	9	5.6	
30	7	8.5	
40	3	6.6	
50	7	3.7	
60	5	4.2	
70	4	3.8	
80	3	3	
90	0	1.6	
100	2	2.2	
110	0	0	
120	-5	-0.6	
130	-15	-6	
140	-26	-10.2	
150	-26	-12	
160	-23	-9.8	
170	-24	-10	
180	-25	-10	
190	-24	-11.2	
200	-21	-9.3	
210	-24	-12.2	
220	-22	-10.5	
230	-22	-8.9	
240	-22	-9.8	
250	-20	-8.3	
260	-20	-5.5	
270	-16	-5.8	
280	-15	-6.2	
290	-14	-8	
300	-14	-7.8	
310	-13	-9	
320	-8	-5.6	
330	-7	-6	
340	2	-4.2	
350	3	0.4	
360	7	-3	
370	3	-1	
380	3	2.7	
390	0	0.3	
400	-2	0	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	0	-1.8	
420	-4	-2.2	
430	-5	-3.4	
440	-7	-4	
450	-5	-3.9	
460	-7	0	
470	-7	-2.8	
480	-6	-2	
490	-7	0	
500	-5	-2.7	

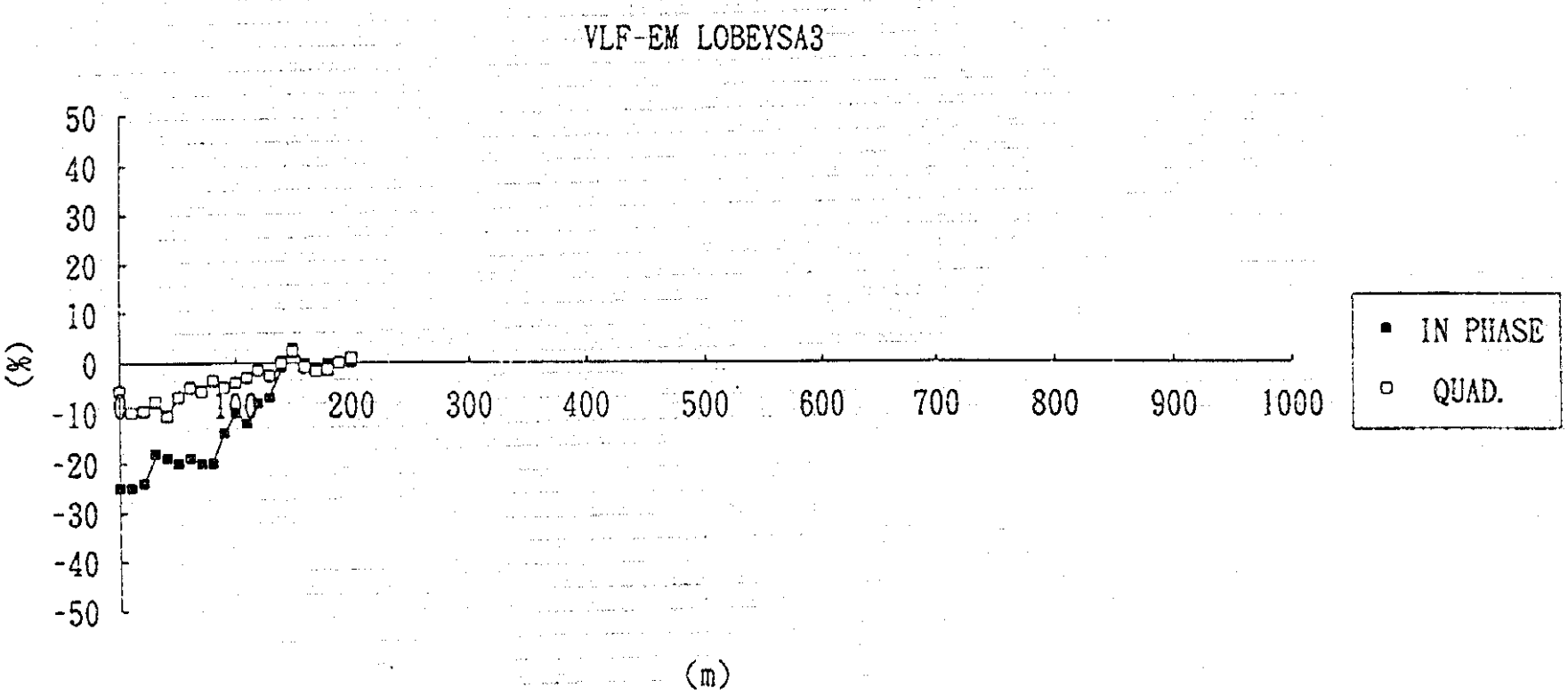

VLF-EM LOBEYSA2
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. LOBEYSA 3

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-25	-5.7	
10	-25	-10	
20	-24	-9.6	
30	-18	-7.7	
40	-19	-10.6	
50	-20	-6.8	
60	-19	-5	
70	-20	-5.7	
80	-20	-3.5	
90	-14	-5	
100	-10	-4	
110	-12	-3	
120	-8	-1.5	
130	-7	-2.6	
140	-1	0	
150	3	2.2	
160	0	-1	
170	-1	-1.8	
180	0	-1.5	
190	0	0	
200	0	1	


VLF-EM LOBEYSA3
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

VLF-EM DATA SHEET (BHUTAN)

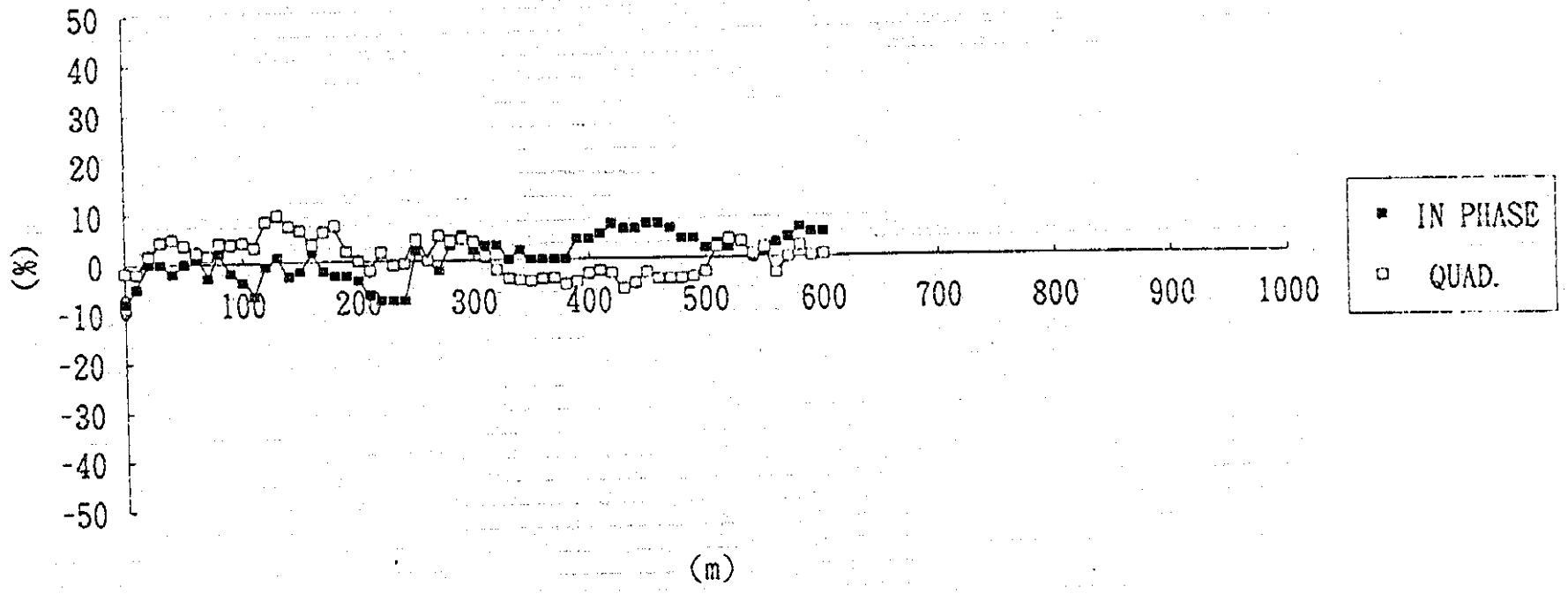
PROFILE NO. LOBEYSA 4

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-8	-1.8	
10	-5	-1.9	
20	0	1.7	
30	0	4.5	
40	-2	5	
50	0	3.8	
60	1	2.4	
70	-3	1.6	
80	2	4.2	
90	-2	3.8	
100	-4	4.2	
110	-7	3	
120	-1	8.2	
130	1	9.5	
140	-3	7.2	
150	-2	6.4	
160	2	3.6	
170	-2	6	
180	-3	7.3	
190	-3	2	
200	-4	0	
210	-7	-2	
220	-8	1.8	
230	-8	-0.8	
240	-8	-0.5	
250	2	4.3	
260	0	0	
270	-2	5	
280	3	4	
290	5	4.3	
300	2	3.7	
310	3	0.7	
320	3	-2.1	
330	0	-3.8	
340	2	-4.2	
350	0	-4.4	
360	0	-4	
370	0	-3.8	
380	0	-5.2	
390	4	-4.6	
400	4	-3	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	5	-2.4	
420	7	-3	
430	6	-6.2	
440	6	-5	
450	7	-2.8	
460	7	-4.2	
470	6	-4.2	
480	4	-4.2	
490	4	-3.8	
500	2	-2.8	
510	3	2.1	
520	2	3.8	
530	3	3.3	
540	0	0.7	
550	1	2	
560	3	-3.2	
570	4	0	
580	6	2.3	
590	5	0.3	
600	5	0.5	

VLF-EM LOBEYSA4



VLF-EN DATA SHEET (BHUTAN)

PROFILE NO. LOBEYSA 5

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-13	-12	
10	-15	-11.5	
20	-14	-11.8	
30	-12	-9.6	
40	-9	-6.1	
50	-6	0.8	
60	0	5.2	
70	12	9.5	
80	17	13	
90	———	———	P.LINE
100	-20	-20	
110	-18	-8.6	
120	-17	-5	
130	-17	-4	
140	-16	-2	
150	-14	0	
160	-16	3.3	
170	-15	5.2	
180	-14	3.5	
190	-11	3.8	
200	-12	5.7	
210	-6	3.6	
220	-4	2.3	
230	-2	1.4	
240	0	1.6	
250	1	2	
260	0	1.7	
270	-7	-1.5	
280	-8	-3.8	
290	-6	-3.2	
300	-8	-3.2	
310	-7	-4.1	
320	-6	-3.9	
330	-9	-3.3	
340	-10	-2.6	
350	-11	-1.2	
360	-10	0	
370	-7	-1.2	
380	-5	-1.9	
390	-4	1.3	
400	-3	2.1	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	-7	1.2	
420	-8	0.8	
430	-3	3.5	
440	0	4.2	
450	-4	5	
460	-5	5.6	
470	-10	6.2	
480	-11	5.4	
490	-9	7.6	
500	-8	8.9	
510	-6	4.5	
520	-5	2.3	
530	-10	5.4	
540	-9	6	
550	-6	2.3	
560	-4	1.8	
570	-6	5.2	
580	-6	5.8	
590	-11	5.6	
600	-10	4	
610	-9	2.5	
620	-8	-2.8	
630	-3	4.3	
640	-2	-5.8	
650	-6	6.2	
660	-5	0	
670	-5	0.5	
680	-4	-0.7	
690	-6	0	
700	-3	4	
710	-5	1.2	
720	-7	-3.8	
730	-4	-2.5	
740	-5	-5.8	
750	-3	1.8	
760	-3	2.7	
770	-7	3.9	
780	-8	4.2	
790	-2	0.5	
800	0	-2.6	
810	-1	-1.8	

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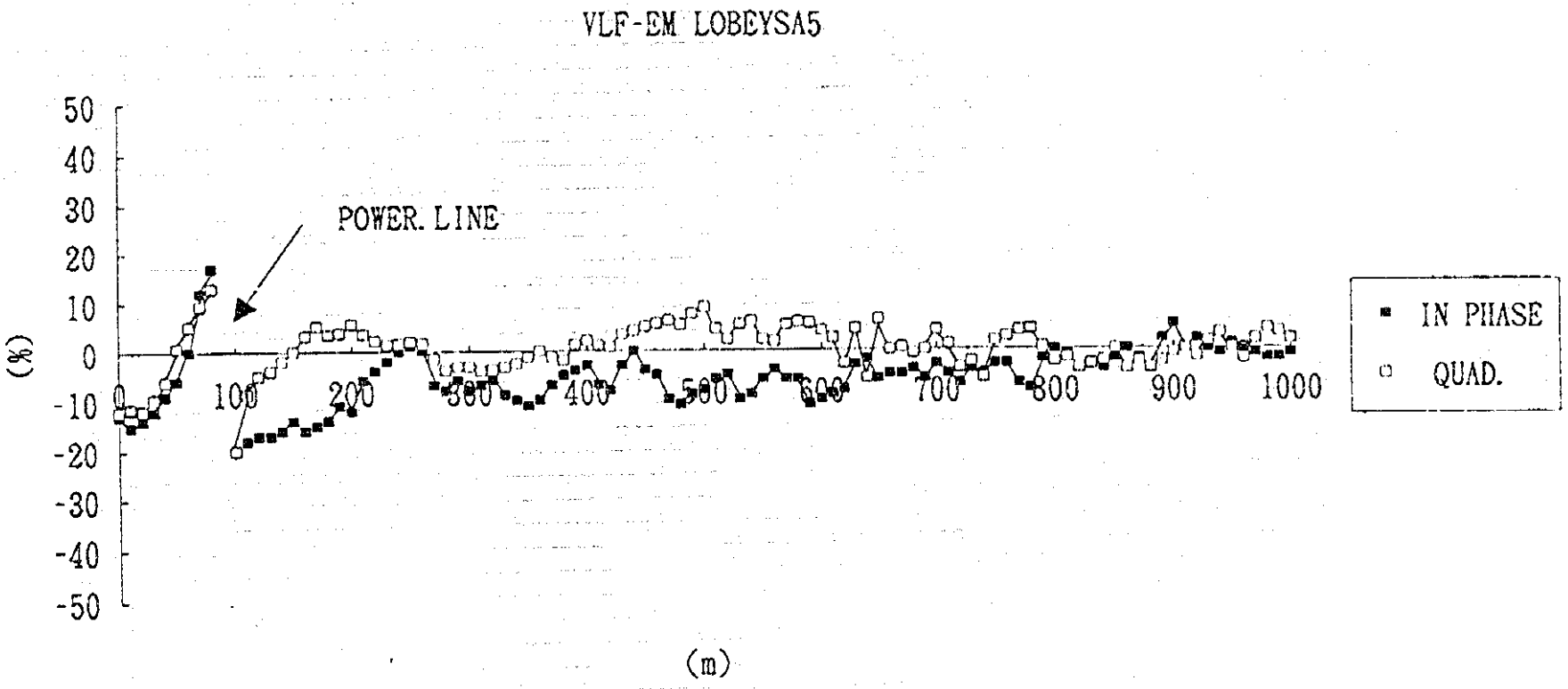

VLF-EM LOBEYSA5
POWER. LINE
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

VLF-EM DATA SHEET (BHUTAN)

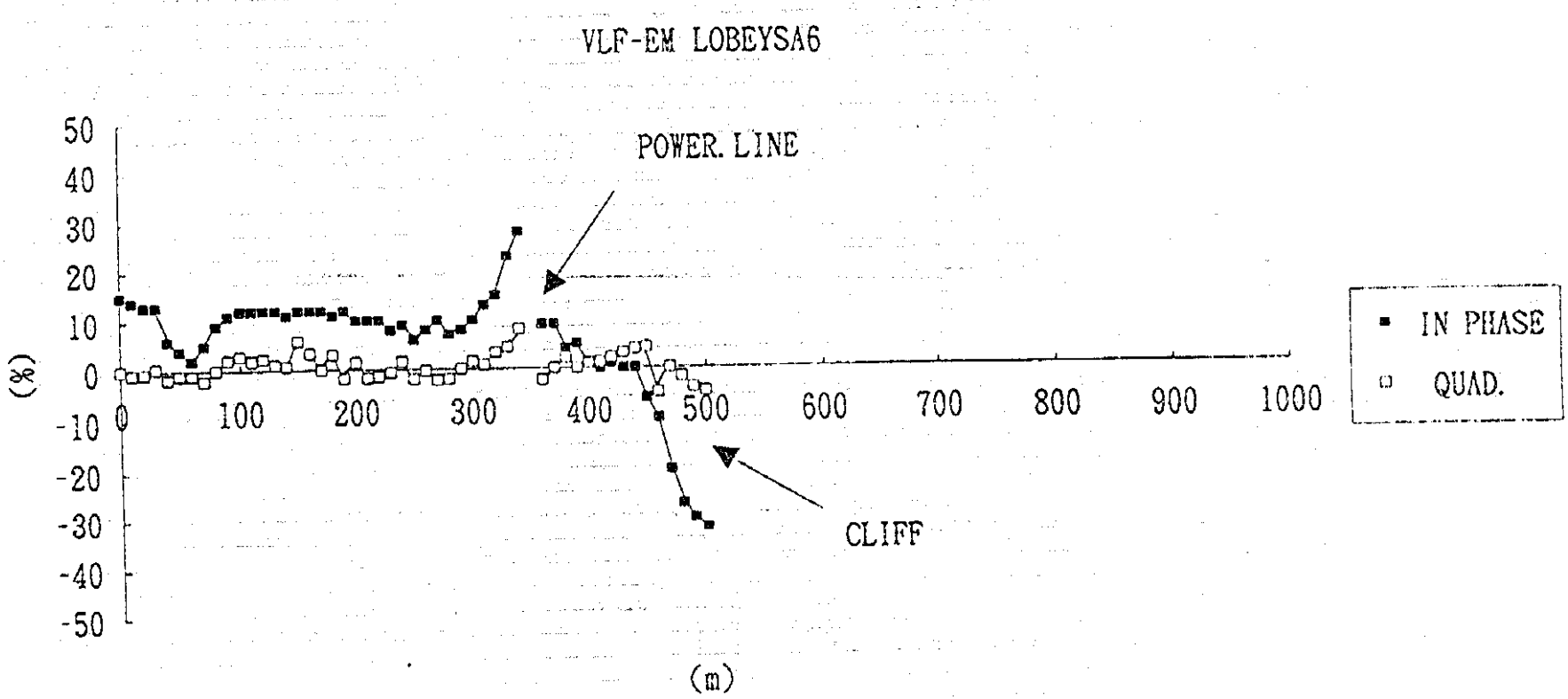
PROFILE NO. LOBEYSA 6

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	15	0	
10	14	-0.7	
20	13	-0.6	
30	13	0.5	
40	6	-1.6	
50	4	-1	
60	2	-1	
70	5	-2.1	
80	9	0	
90	11	2	
100	12	2.8	
110	12	1.8	
120	12	2.2	
130	12	1	
140	11	0.7	
150	12	5.8	
160	12	3.2	
170	12	0	
180	11	3	
190	12	-1.7	
200	10	1.5	
210	10	-1.8	
220	10	-1.4	
230	8	-0.6	
240	9	1.6	
250	6	-2	
260	8	-0.3	
270	10	-2.2	
280	7	-2	
290	8	0	
300	10	1.6	
310	13	0.8	
320	15	3.2	
330	23	4.3	
340	28	8	
350	———	———	P.LINE
360	9	-2.3	
370	9	0	
380	4	2	
390	5	0	
400	1	1	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	0	1.3	
420	1	2.1	
430	0	3	
440	0	3.8	
450	-6	4.2	
460	-10	-5	
470	-20	0	CLIFF
480	-27	-1.8	CLIFF
490	-30	-4	CLIFF
500	-32	-4.7	CLIFF

461


VLF-EM LOBEYSA6
POWER. LINE
CLIFF
IN PHASE
QUAD.
(%)
(m)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
100
200
300
400
500
600
700
800
900
1000

GEOPHYSICAL PROSPECTING

(VLF ELECTRO MAGNETIC SURVEY)

DATA SHEET AND PROFILE

BAJO SUB-AREA

VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. BAJO 1

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-4	-6		410	-10	-4	
10	-3	-6		420	-7	-7.7	
20	-5	-1.6		430	-4	-10.2	
30	-8	-2		440	-5	0	
40	-8	-4.2		450	-2	-0.8	
50	-9	-5.8		460	3	-3.5	
60	-12	-4.6		470	3	-5	
70	-5	-4		480	2	-1.3	
80	-8	-2.6		490	4	-5.8	
90	-4	-1.3		500	0	-3	
100	-3	-4.6		510	1	-7	
110	-2	-2.5		520	0	-3	
120	0	-8.3		530	2	-7.8	
130	-3	3		540	0	-10	
140	-3	-1.8		550	-3	-5.7	
150	-2	0.7		560	-2	-7.3	
160	-4	-4.2		570	3	0	
170	-6	2.1		580	-1	-1.9	
180	-3	1		590	6	-10.6	
190	0	-4.8		600	3	-5.7	
200	-2	3.4		610	2	-6.3	
210	-2	0		620	5	-4.5	
220	-3	4.1		630	8	1	
230	-3	-5.8		640	6	0	
240	-3	-2.6		650	7	-1.9	
250	2	1.9		660	6	1	
260	4	1.8		670	10	-3.9	
270	3	2.5		680	7	2	
280	3	-0.6		690	5	-0.6	
290	-2	-3.9		700	4	1.7	
300	2	-9.7		710	-2	0.4	
310	9	-5.7		720	-2	2.2	
320	18	-6.7		730	-3	5	
330	23	-9		740	6	-1.7	
340	40	-12		750	4	-0.8	
350	———	———	P LINE	760	3	1.7	
360	-43	5.6		770	11	6.5	
370	-17	5.9		780	7	2.1	
380	-5	13.8		790	5	5	
390	-8	6.2		800	8	3.6	
400	-5	6.2		810	6	6	

VLF-EM DATA SHEET (BHUTAN)

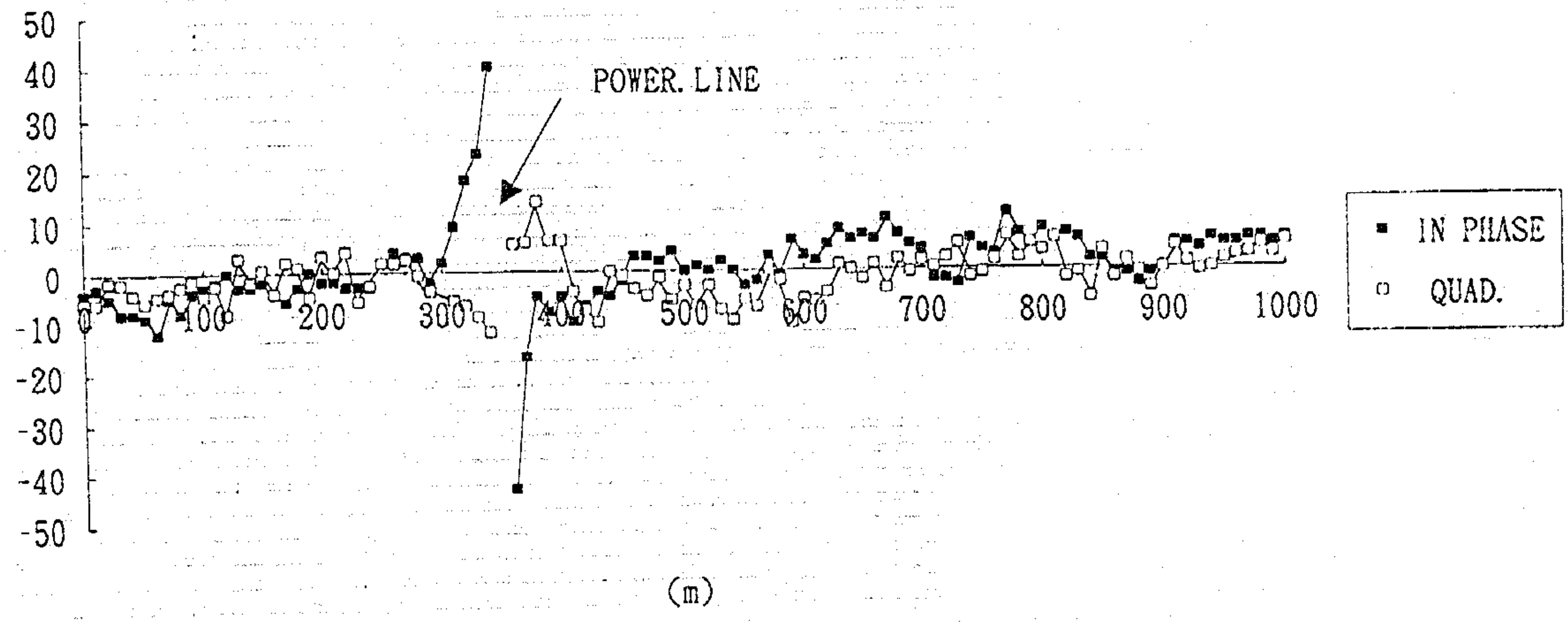
PROFILE NO. BAJO 1

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
820	7	-2	
830	6	-0.8	
840	2	-5.9	
850	2	3.6	
860	-1	-2	
870	-1	1.6	
880	-3	-0.6	
890	-1	-3.8	
900	0	0	
910	5	4.3	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
920	5	1.2	
930	4	-0.5	
940	6	0	
950	5	1.7	
960	5	2.5	
970	6	2.9	
980	6	4.6	
990	5	2.8	
1000	6	5.2	

VLF-EM BAJ01



POWER. LINE
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

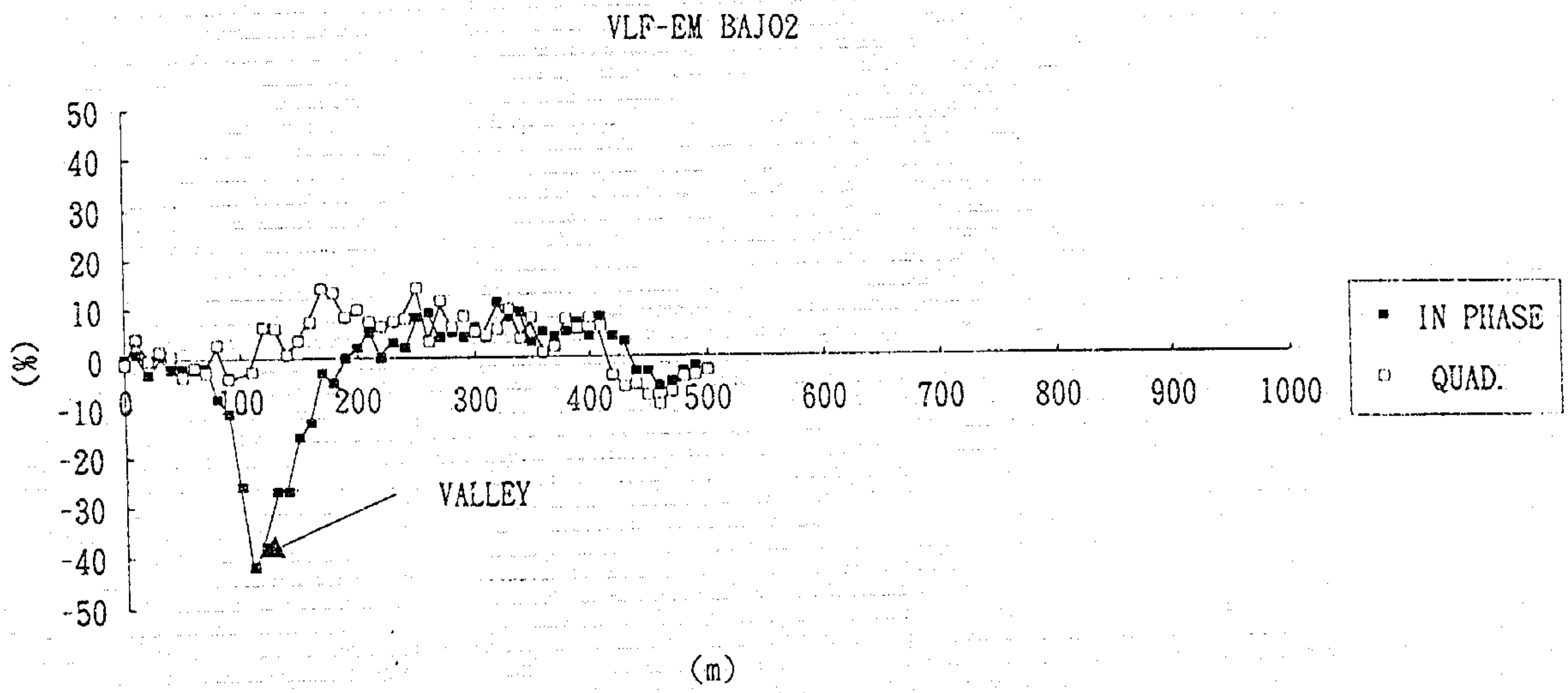
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. BAJO 2

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	0	-1	
10	1	4.1	
20	-3	-0.2	
30	1	1.6	
40	-2	0.7	
50	-2	-3.5	
60	-2	-1.8	
70	-2	-2.7	
80	-8	2.8	
90	-11	-4	
100	-26	-9.7	
110	-42	-2.6	VALLEY
120	-38	6.3	
130	-27	6	
140	-27	0.8	
150	-16	3.6	
160	-13	7.3	
170	-3	14	
180	-5	13.2	
190	0	8.2	
200	2	9.7	
210	5	7.2	
220	0	6.2	
230	3	7.2	
240	2	7.8	
250	8	14	
260	9	3.3	
270	4	11.3	
280	5	6	
290	4	8.2	
300	6	5	
310	4	4.3	
320	11	5.6	
330	8	9.7	
340	9	3.7	
350	3	7.9	
360	5	0.9	
370	4	2	
380	5	7.6	
390	7	5.6	
400	4	7.8	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	8	6	
420	4	-3.7	
430	3	-6.1	
440	-3	-5.6	
450	-3	-7.9	
460	-6	-9.7	
470	-5	-7.2	
480	-3	-4.2	
490	-2	-3.8	
500	-3	-2.9	


VLF-EM BAJO2
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
VALLEY
IN PHASE
QUAD.

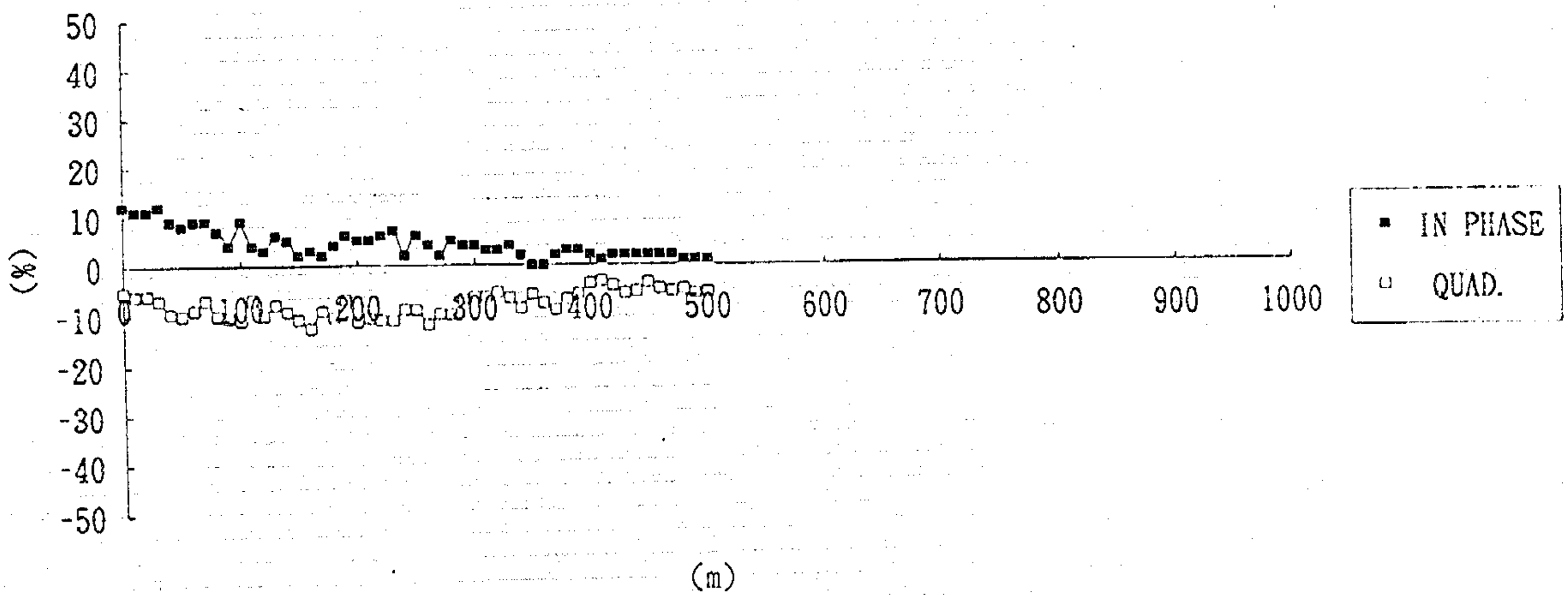
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. BAJO 3

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	12	-5.2	
10	11	-6	
20	11	-5.8	
30	12	-6.8	
40	9	-9.5	
50	8	-10	
60	9	-8.8	
70	9	-6.8	
80	7	-10	
90	4	-10.4	
100	9	-10.8	
110	4	-6.7	
120	3	-10	
130	6	-7.8	
140	5	-9.3	
150	2	-10.8	
160	3	-12.6	
170	2	-9.2	
180	4	-10.4	
190	6	-6.8	
200	5	-11.3	
210	5	-10.6	
220	6	-10.9	
230	7	-11	
240	2	-8.8	
250	6	-9	
260	4	-11.8	
270	2	-9.7	
280	5	-9.8	
290	4	-6.8	
300	4	-6.4	
310	3	-6.3	
320	3	-5.4	
330	4	-6.5	
340	2	-8.6	
350	0	-5.8	
360	0	-7.6	
370	2	-9	
380	3	-6.8	
390	3	-5.8	
400	2	-3.7	
410	1	-3.3	
420	2	-4.2	
430	2	-5.7	
440	2	-5.4	
450	2	-3.6	
460	2	-4.8	
470	2	-5.4	
480	1	-5	
490	1	-5.8	
500	1	-5.6	

VLF-EM BAJO3


50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

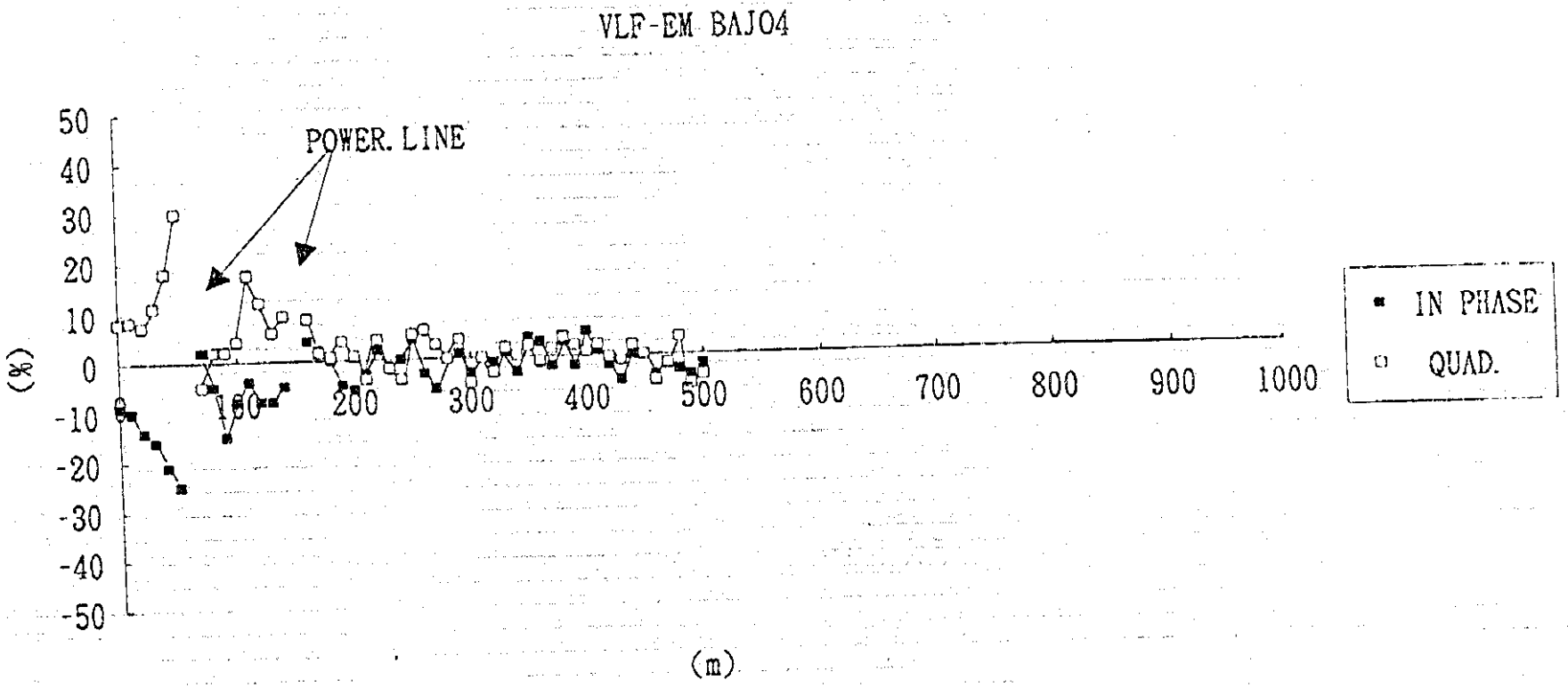
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. BAJO 4

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-9	8.1	
10	-10	8.5	
20	-14	7.4	
30	-16	11.2	
40	-21	18	
50	-25	30	
60	———	———	P.LINE
70	2	-5	
80	-5	2	
90	-15	2	
100	-8	4.2	
110	-4	17.5	
120	-8	12	
130	-8	5.9	
140	-5	9.2	
150	———	———	P.LINE
160	4	8.6	
170	2	1.6	
180	0	0.7	
190	-5	3.9	
200	-6	0.8	
210	-3	-3.9	
220	2	4.1	
230	-2	-1.8	
240	0	-4	
250	4	5.1	
260	-3	5.9	
270	-6	2.9	
280	0	0	
290	1	3.9	
300	-3	-5	
310	0	0	
320	-1	-3	
330	1	2	
340	-3	0.4	
350	4	2.3	
360	3	-1	
370	-2	1.6	
380	3	3.9	
390	-2	2.1	
400	5	0.8	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
410	1	2.2	
420	-2	-0.3	
430	-5	-1	
440	0	2	
450	0	0	
460	-4	-5.2	
470	-2	-1.8	
480	-3	3.6	
490	-4	-6	
500	-2	-4.2	


VLF-EM BAJO4
POWER. LINE
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. BAJO 5

DIRECTION OF PROFILE S - N VLF STATION CODE NAA

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-6	-6		410	-5	-2.5	
10	-2	-1.7		420	-2	6.7	
20	-3	4.1		430	-3	-3.1	
30	-6	0		440	-4	-4	
40	-10	-5.7		450	-9	1.7	
50	-10	-7.2		460	-12	3.6	
60	-12	1		470	-13	-0.6	
70	-13	-1.7		480	-14	-1.8	
80	-13	2.7		490	-20	-1	
90	-10	4.4		500	-23	-5.7	
100	-8	-3.1		510	-20	-3.8	
110	-5	-2.2		520	-18	-6	
120	-5	-6		530	-15	-8.3	
130	-6	2.1		540	-15	-0.7	
140	-1	-0.2		550	-4	-10.1	
150	0	4.1		560	0	-7.8	
160	-6	0		570	6	-5	
170	-4	1.6		580	14	-6	
180	-7	0.7		590	15	-4.8	
190	-6	1		600	17	-6.2	
200	-7	7.9		610	23	-2.1	
210	-13	4.4		620	35	-5.8	
220	-10	-7.4		630	———	———	P.LINE
230	-6	0.7		640	-15	13.3	
240	-4	-1.8		650	-2	6	
250	-5	4.2		660	-7	8.1	
260	-4	-4		670	-5	2.2	
270	-2	1.9		680	-5	8.2	
280	0	-3.3		690	-6	5.5	
290	2	4.2		700	-6	10.2	
300	4	4.5		710	-6	4.8	
310	6	-3.4		720	-5	4	
320	0	0		730	-5	6.7	
330	0	-1.2		740	-7	5	
340	-3	1		750	-2	2.9	
350	1	3.7		760	-2	-3.4	
360	-4	0		770	2	0.7	
370	-3	5.2		780	0	1	
380	-2	1.6		790	-3	2	
390	-5	2.2		800	-2	-3.2	
400	-11	2.2		810	8	10	

VLF-EM DATA SHEET (BHUTAN)

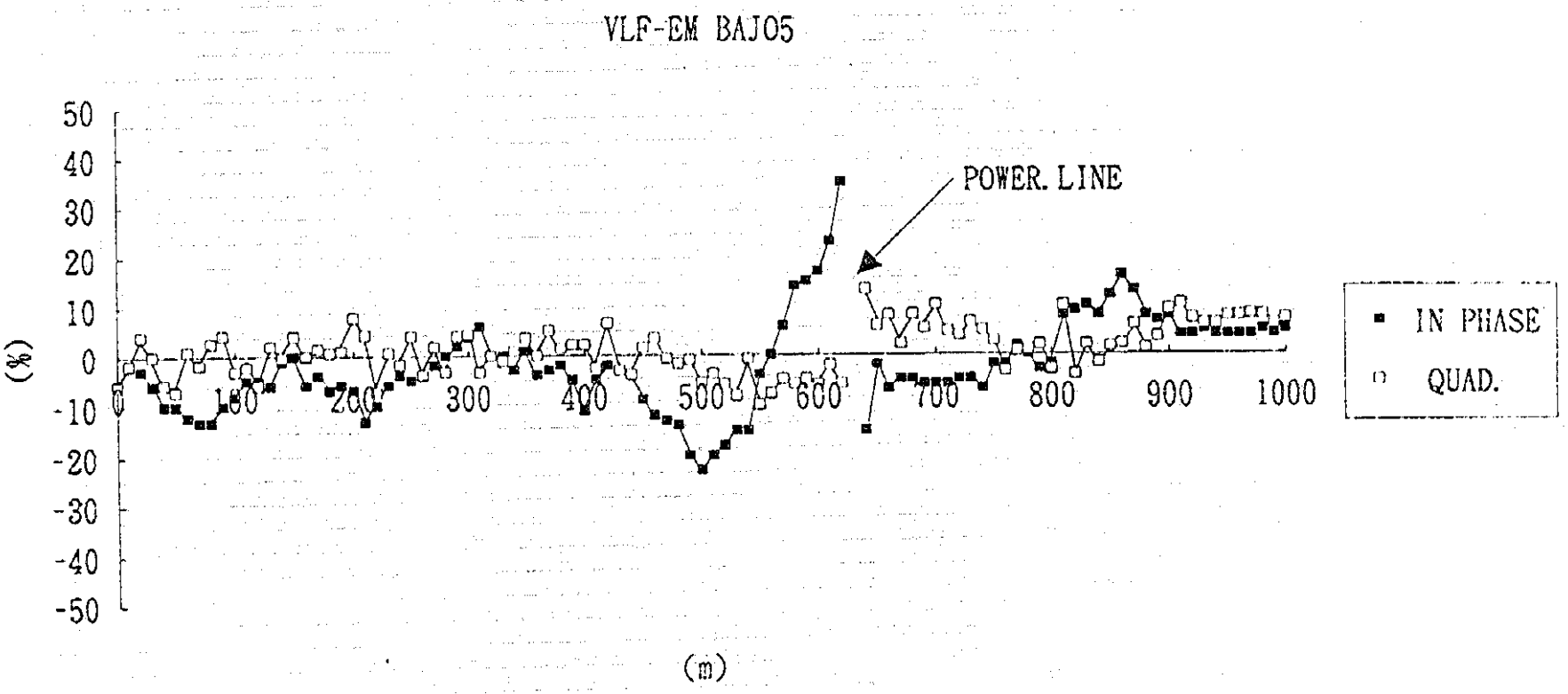
PROFILE NO. BAJO 5

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
820	9	-4.2	
830	10	2	
840	8	-1.7	
850	12	1.6	
860	16	2.1	
870	13	6.1	
880	8	1.3	
890	7	3.6	
900	8	9.1	
910	4	10.3	

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
920	4	7.3	
930	5	6.2	
940	4	6.3	
950	4	7.8	
960	4	7.8	
970	4	8.1	
980	5	7.9	
990	4	6.3	
1000	5	7.2	

468


VLF-EM BAJO5
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
POWER. LINE
IN PHASE
QUAD.

GEOPHYSICAL PROSPECTING

(VLF ELECTRO MAGNETIC SURVEY)

DATA SHEET AND PROFILE

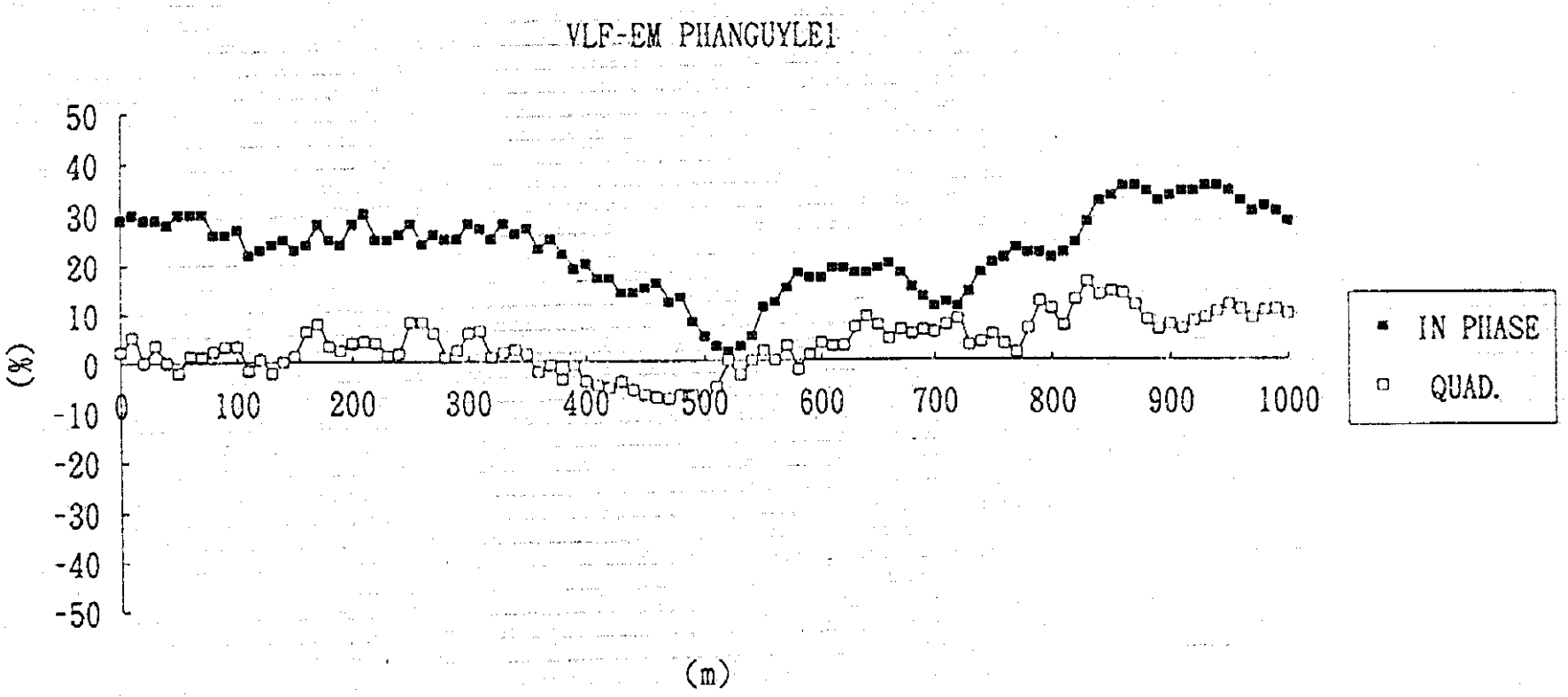
PHANGYUL SUB-AREA

VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. PHANGUYLE 1

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	29	2.2		410	17	-5	
10	30	5.3		420	17	-5.5	
20	29	0		430	14	-4.3	
30	29	3.6		440	14	-6	
40	28	0		450	15	-7	
50	30	-2.1		460	16	-7.5	
60	30	1.4		470	12	-7.7	
70	30	1.2		480	13	-6.9	
80	26	2.3		490	8	-7	
90	26	3.2		500	5	-8.3	
100	27	3.2		510	3	-5.4	
110	22	-1.8		520	2	0	
120	23	0.5		530	3	-3	
130	24	-2.3		540	5	0	
140	25	0		550	11	2	
150	23	1.2		560	12	0	
160	24	6.2		570	15	3	
170	28	7.8		580	18	-2	
180	25	3.1		590	17	1.2	
190	24	2.2		600	17	3.6	
200	28	3.8		610	19	2.9	
210	30	4.1		620	19	3	
220	25	3.8		630	18	6.8	
230	25	1.2		640	18	9	
240	26	1.6		650	19	7.3	
250	28	8		660	20	4.3	
260	24	8		670	18	6.2	
270	26	5.8		680	15	5.4	
280	25	0.8		690	13	6.1	
290	25	2.2		700	11	5.7	
300	28	5.8		710	12	7.3	
310	27	6.3		720	11	8.5	
320	25	0.8		730	14	3	
330	28	1.8		740	18	3.7	
340	26	2.4		750	20	5.2	
350	27	1.5		760	21	3.2	
360	23	-2.2		770	23	1.5	
370	25	-0.8		780	22	6.5	
380	22	-3.7		790	22	12	
390	19	-1		800	21	10.5	
400	20	-4.2		810	22	7	


VLF-EM PHANGUYLE1
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

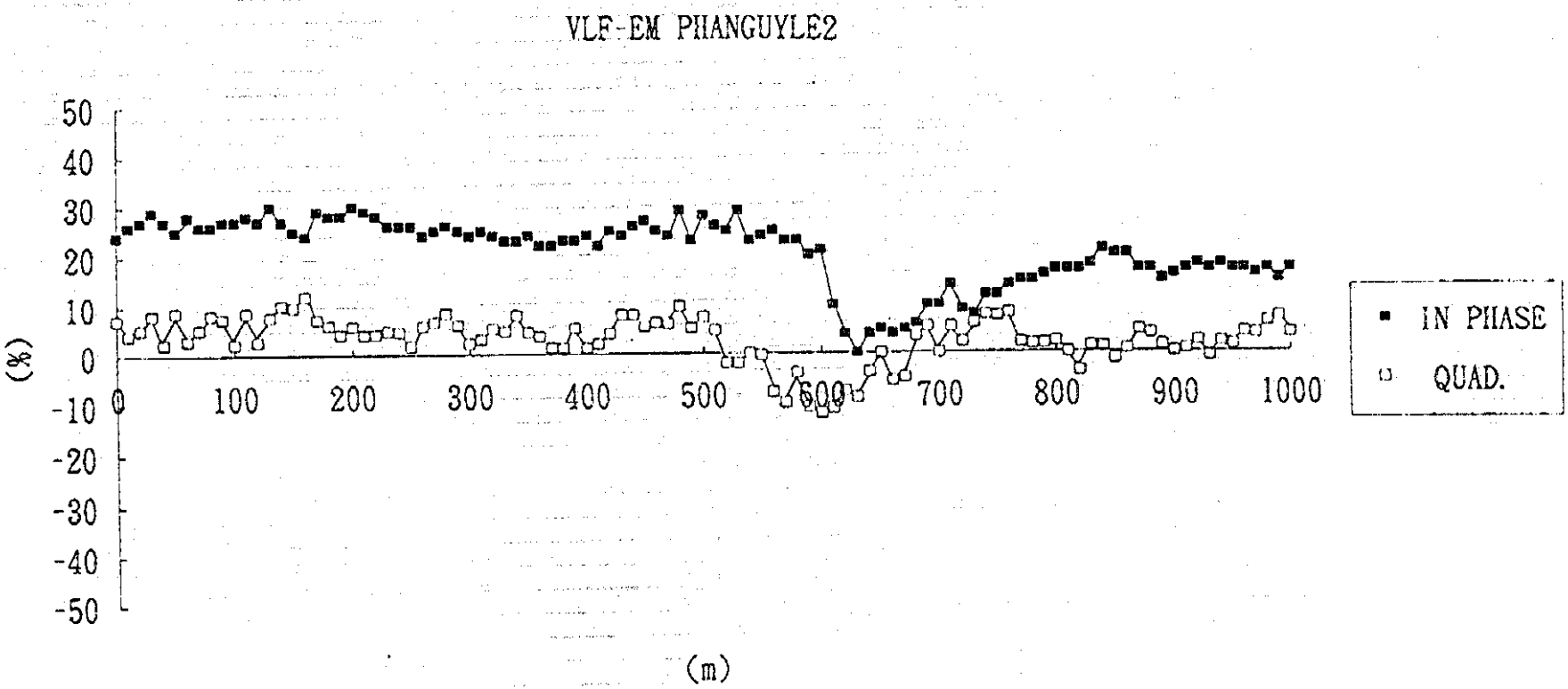
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. PHANGUYLE 2

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	24	7.2		410	22	2	
10	26	4.1		420	25	4.2	
20	27	5.2		430	24	8	
30	29	8.2		440	26	8	
40	27	2.2		450	27	5.6	
50	25	8.8		460	25	6.4	
60	28	3		470	24	6.1	
70	26	5.3		480	29	9.8	
80	26	8.2		490	23	5.2	
90	27	7.5		500	28	7.6	
100	27	2.3		510	26	4.8	
110	28	8.7		520	25	-2	
120	27	2.7		530	29	-2	
130	30	7.8		540	23	0	
140	27	10.3		550	24	-0.4	
150	25	9.8		560	25	-7.8	
160	24	12		570	23	-10	
170	29	7.2		580	23	-4	
180	28	6		590	20	-10.8	
190	28	4.2		600	21	-12	
200	30	5.8		610	10	-11.1	
210	29	4		620	4	-7.6	
220	28	4.2		630	0	-9	
230	26	4.8		640	4	-3.8	
240	26	4.6		650	5	0	
250	26	1.7		660	4	-5.6	
260	24	5.8		670	5	-5	
270	25	6.7		680	6	3.5	
280	26	8.5		690	10	5.5	
290	25	6		700	10	0	
300	24	2.3		710	14	5.4	
310	25	3		720	9	2.1	
320	24	5.2		730	8	6	
330	23	4.7		740	12	7.8	
340	23	8		750	12	7.6	
350	24	4.5		760	14	8.2	
360	22	3.6		770	15	2	
370	22	1.3		780	15	1.7	
380	23	1.2		790	16	1.8	
390	23	5.2		800	17	2.2	
400	24	1.1		810	17	0	

471


VLF-EM PHANGUYLE2
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
0
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. PHANGUYLE 3

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	30	-2		410	10	-5.8	
10	28	2.2		420	13	-4.8	
20	24	1.7		430	15	-8.8	
30	26	0.6		440	16	-12	
40	28	-4.2		450	12	-14	
50	27	0		460	12	-12.3	
60	24	-2.2		470	13	-11.5	
70	21	-1		480	14	-10.5	
80	22	-8.5		490	18	-13	
90	23	-6		500	17	-10.5	
100	22	-6.3		510	16	-10	
110	22	-9.2		520	17	-9.5	
120	18	-9		530	22	-6.5	
130	21	-9.8		540	30	-11.8	
140	20	-7.8		550	35	-11.5	
150	22	-6		560	42	-6.2	
160	19	-2.8		570	40	-9	
170	15	-6.2		580	39	-6.8	
180	10	-1.6		590	42	-10	
190	12	-4.5		600	38	-9	
200	13	-6.3		610	38	-5.7	
210	10	-7.2		620	32	-3.5	
220	13	-6		630	32	-3.8	
230	11	-5.8		640	24	-1.8	
240	13	-7.7		650	22	0	
250	13	-7.3		660	23	-4.2	
260	14	-7.2		670	22	-1.8	
270	14	-8		680	18	2	
280	8	-9		690	23	-3	
290	8	-7.6		700	17	-6.3	
300	8	-7.7		710	18	-8	
310	7	-8		720	18	-3.5	
320	7	-8		730	18	-3.3	
330	8	-8.3		740	15	-4.1	
340	9	-9		750	14	-3.2	
350	11	-9.2		760	18	-2.4	
360	8	-9.6		770	19	-0.8	
370	7	-6.5		780	18	0	
380	10	-11		790	13	0.5	
390	11	-9.8		800	15	4.3	
400	11	-5.8		810	16	-1.8	

4772

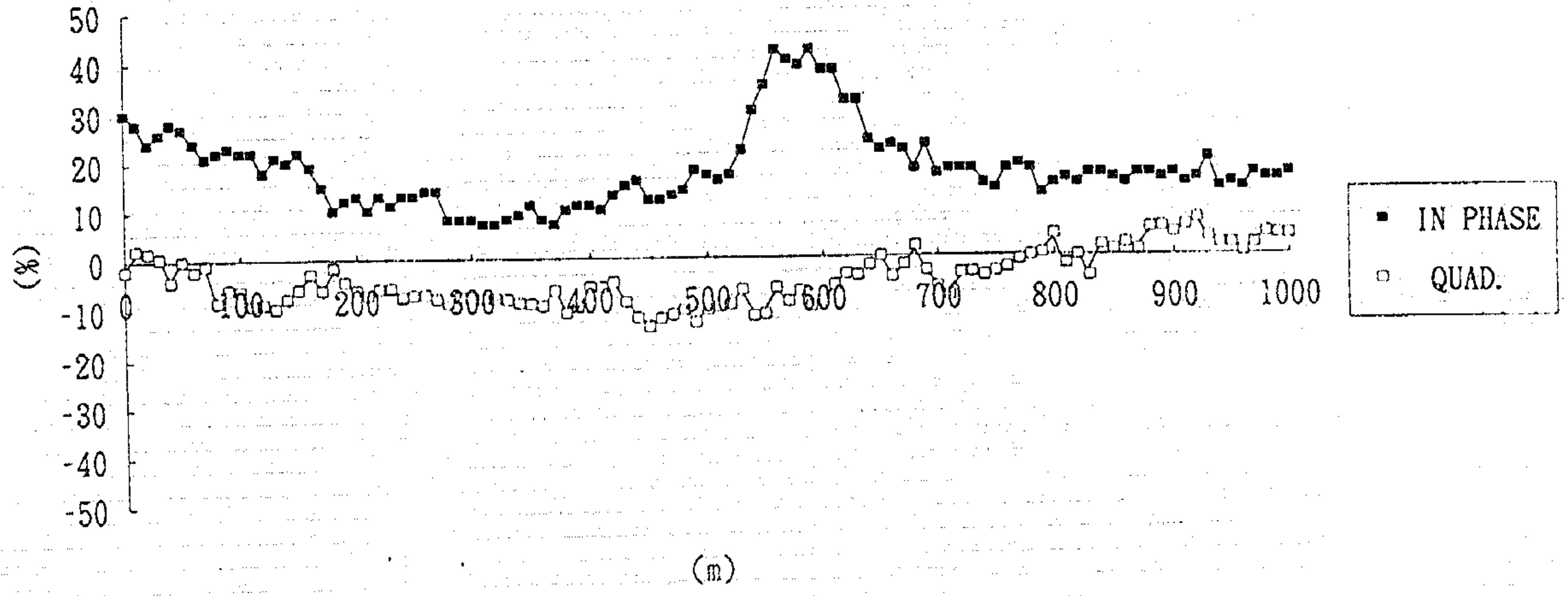
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. PHANGUYLE 3

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
820	15	0		920	16	7.5	
830	17	-4.3		930	20	3.7	
840	17	2		940	14	2.4	
850	16	1		950	15	2.2	
860	15	2.5		960	14	0.6	
870	17	1		970	17	2.3	
880	17	5.6		980	16	4.5	
890	16	5.8		990	16	4.2	
900	17	4.6		1000	17	4	
910	15	6					

VLF-EM PHANGUYLE3



GEOPHYSICAL PROSPECTING

(VLF ELECTRO MAGNETIC SURVEY)

DATA SHEET AND PROFILE

RUBEYSA SUB-AREA

VLF-EM DATA SHEET (BHUTAN)

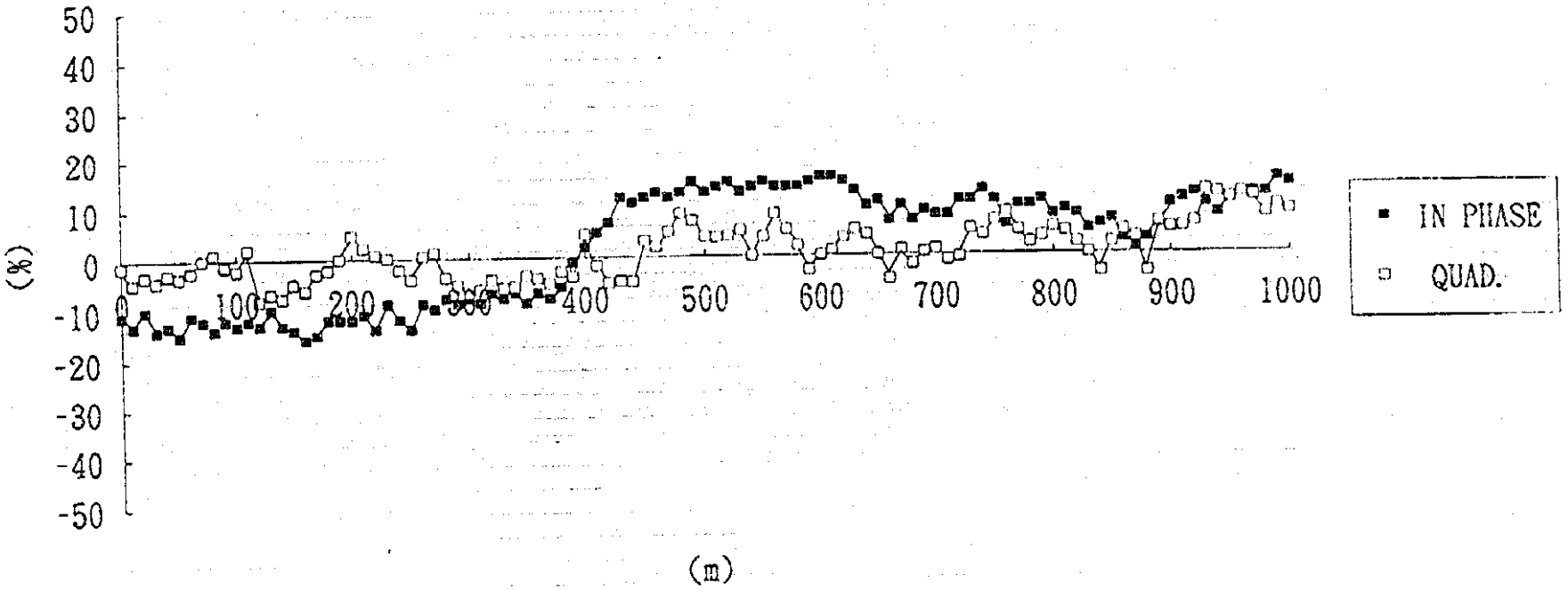
PROFILE NO. RUBEYSA 1

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-14	-3.8		410	7	5	
10	-15	-2.6		420	5	8.6	
20	-15	-1.9		430	6	6.5	
30	-14	-3.4		440	4	3.8	
40	-13	-2.5		450	5	-1.8	
50	-15	0		460	8	1.4	
60	-14	-3.2		470	6	4.7	
70	-14	-2.6		480	9	2.3	
80	-15	-0.9		490	6	9.8	
90	-14	-0.4		500	7	2.2	
100	-13	-3.2		510	14	7.5	
110	-17	-9.5		520	11	12.6	
120	-15	-5		530	8	1.8	
130	-13	-7.6		540	5	5.8	
140	-15	-3		550	15	9.1	
150	-13	0		560	12	2.6	
160	-14	-2.6		570	8	0	
170	-14	-5		580	10	4.5	
180	-13	-5.8		590	9	3.3	
190	-8	-3.7		600	12	4.4	
200	-8	0		610	3	1.6	
210	-4	-0.4		620	9	4.3	
220	-5	3.8		630	7	3.2	
230	-7	3.2		640	8	2.3	
240	-7	3.8		650	5	6.1	
250	2	-4		660	-8	4	
260	3	-4.2		670	-4	-3.8	
270	5	0		680	-8	-8	
280	6	-2.3		690	-5	-2	
290	5	-1.2		700	-6	-2.1	
300	7	0		710	-12	-8	
310	3	8.1		720	-12	-8.4	
320	5	1.3		730	-13	-8	
330	4	1.8		740	-10	-10.1	
340	4	6		750	-14	2.1	
350	3	0		760	-13	-0.4	
360	5	0		770	-3	-2	
370	8	7.7		780	4	-1.3	
380	3	-1.5		790	-3	-4.9	
390	4	7.8		800	-3	1.8	
400	5	-0.6		810	3	-0.8	

4.7.3

VLF-EM RUBEYSA 1



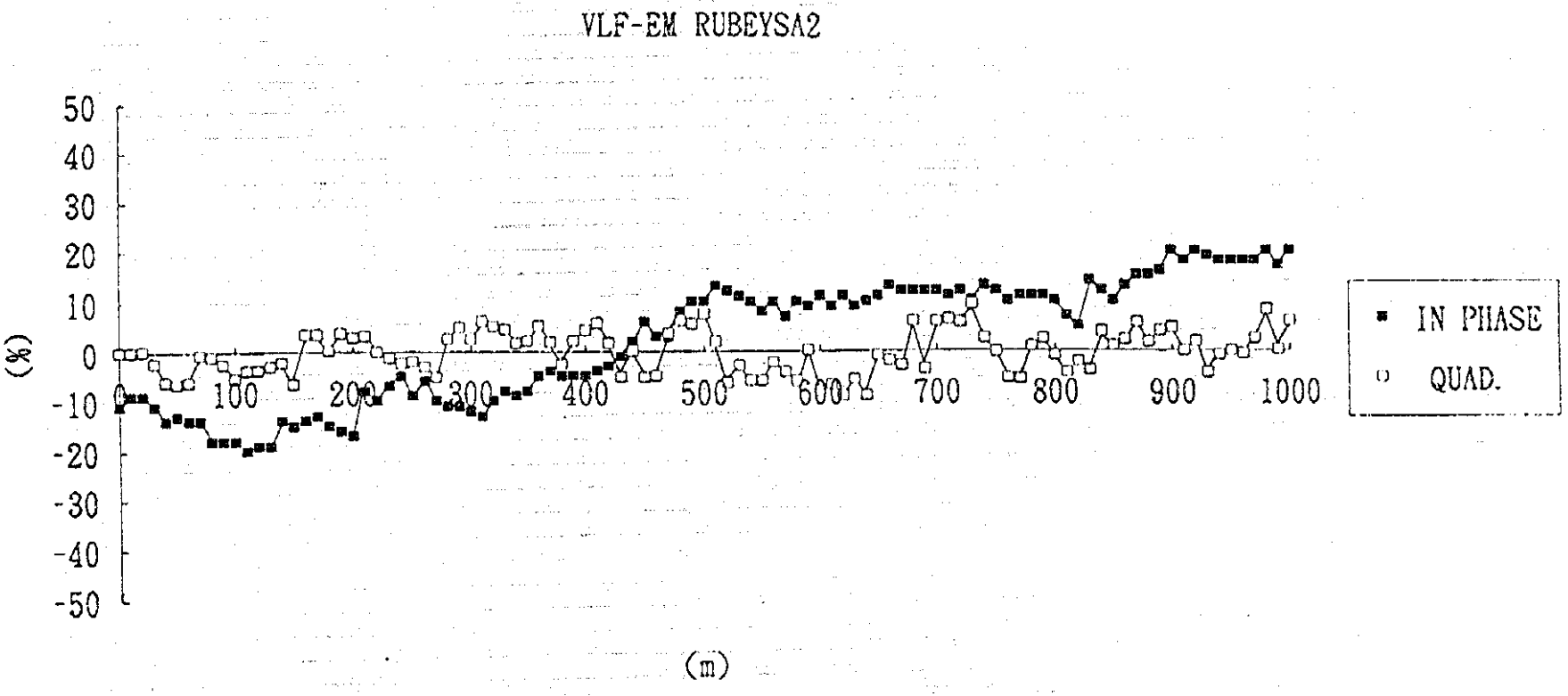
VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. RUBEYSA 2

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-11	0		410	-4	5.8	
10	-9	0		420	-3	1.8	
20	-9	0.3		430	-1	-5.2	
30	-11	-2.2		440	2	0.2	
40	-14	-6.1		450	6	-5.3	
50	-13	-6.5		460	3	-5	
60	-14	-6.2		470	3	3.7	
70	-14	-0.5		480	8	6.2	
80	-18	-1		490	10	5.6	
90	-18	-2.5		500	10	7.6	
100	-18	-5.4		510	13	2	
110	-20	-3.8		520	12	-6.4	
120	-19	-3.7		530	11	-2.9	
130	-19	-3		540	10	-6	
140	-14	-2.2		550	8	-6	
150	-15	-6.6		560	10	-2.2	
160	-14	3.6		570	7	-4.2	
170	-13	3.6		580	10	-6.1	
180	-15	0.3		590	9	0.3	
190	-16	3.8		600	11	-8.2	
200	-17	2.9		610	9	-6.8	
210	-8	3.2		620	11	-9.2	
220	-10	0		630	9	-5.8	
230	-7	-1.2		640	10	-9.2	
240	-5	-2.3		650	11	-0.9	
250	-9	-2		660	13	-2	
260	-6	-3.1		670	12	-3	
270	-10	-5.2		680	12	6	
280	-11	2.7		690	12	-3.7	
290	-11	5		700	12	5.9	
300	-12	2.7		710	11	6.4	
310	-13	6.2		720	12	5.8	
320	-10	5.2		730	10	9.3	
330	-8	4.6		740	13	2.6	
340	-9	1.8		750	12	-0.2	
350	-8	2.2		760	10	-5.6	
360	-5	5.2		770	11	-5.8	
370	-4	2		780	11	0.9	
380	-5	-2.5		790	11	2.5	
390	-5	2.2		800	10	-1	
400	-5	4.4		810	7	-4.5	

476


VLF-EM RUBEYSA2
50
40
30
20
10
0
-10
-20
-30
-40
-50
(%)
100
200
300
400
500
600
700
800
900
1000
(m)
IN PHASE
QUAD.

VLF-EM DATA SHEET (BHUTAN)

PROFILE NO. RUBEYSA 3

DIRECTION OF PROFILE S - N VLF STATION CODE NWC

DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES	DIST. (m)	IN PHASE (%)	QUAD. (%)	REMARKES
0	-11	-1.3		410	5	-1.8	
10	-13	-4.6		420	7	-5.2	
20	-10	-3.2		430	12	-4.8	
30	-14	-4.3		440	11	-5	
40	-13	-2.9		450	12	3.2	
50	-15	-3.5		460	13	2	
60	-11	-2.4		470	12	5	
70	-12	0		480	13	8.7	
80	-14	1.2		490	15	7.3	
90	-12	-1.3		500	13	4	
100	-13	-2.2		510	14	3.8	
110	-12	2		520	15	4.2	
120	-13	-8.2		530	13	5.2	
130	-10	-6.8		540	14	0	
140	-13	-7.7		550	15	3.9	
150	-14	-4.9		560	14	8.6	
160	-16	-6.3		570	14	5.4	
170	-15	-3		580	14	2	
180	-12	-2.2		590	15	-3	
190	-12	0		600	16	0	
200	-12	4.8		610	16	1	
210	-11	2.3		620	15	3.6	
220	-14	0.8		630	13	5.2	
230	-9	0.2		640	10	4.2	
240	-12	-2.2		650	11	0	
250	-14	-4.2		660	7	-5	
260	-9	0.5		670	10	1	
270	-10	1.2		680	7	-1.9	
280	-8	-3.8		690	9	0.5	
290	-9	-5.4		700	8	1	
300	-8	-6.7		710	8	-1.2	
310	-9	-6.3		720	11	-0.6	
320	-7	-4.3		730	11	5.1	
330	-8	-6		740	13	3.9	
340	-7	-5.7		750	11	6.8	
350	-9	-3.6		760	6	3.5	
360	-7	-4.2		770	10	4.8	
370	-8	-5.2		780	10	2.3	
380	-6	-2.8		790	11	3.6	
390	-1	-3.8		800	8	5.4	
400	2	4.7		810	9	4.5	

VLF-EM RUBEYSA 3