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U.S. GEOLOGICAL SURVEY

SCHLUMBERGER SOUNDINGS NEAR TWENTYNINE PALMS,

CALIFORNIA

By

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In 1992 the U.S. Geological Survey made 52 Schlumberger soundings in and around the Marine Corps Air Ground Combat Center near Twentynine Palms, California. The soundings were made to assist the Water Resources Division and the U.S. Marine Corps in delineating geologic structure, depth to basement, and areas of potable water. The mountains defining the valley are composed principally of Mesozoic quartz monzonite (Dibblee, 1967, 1968). The purpose of this report is to release the observed Schlumberger sounding data. An automatic interpretation of each sounding is also given.

SCHLUMBERGER SOUNDINGS

Schlumberger sounding is a dc resistivity geophysical technique. Dc resistivity is a fundamental rock property that remains constant for a homogeneous isotropic material, irrespective of the sample size or measuring geometry. The resistivity of a material is equal to the resistance of a unit cube of that material (Zohdy and others, 1974). Resistivity is normally expressed in ohm-m. A Schlumberger sounding is made by introducing a known current, I , into 2 metal current electrodes (A & B in figure 1) while concurrently measuring a potential, ΔV , across 2 different metal potential electrodes (M & N in figure 1). The apparent resistivity, ρ_a , is calculated from $\rho_a = K \Delta V / I$ where K is the geometric factor $K = \pi((AB/2)^2 - (MN/2)^2) / MN$. A sounding is obtained by making additional measurements after the current electrodes are moved farther from the center of the sounding. The 4 electrodes, AMNB, are normally in a straight line, but some divergence is acceptable (Zohdy and Bisdorf, 1982).

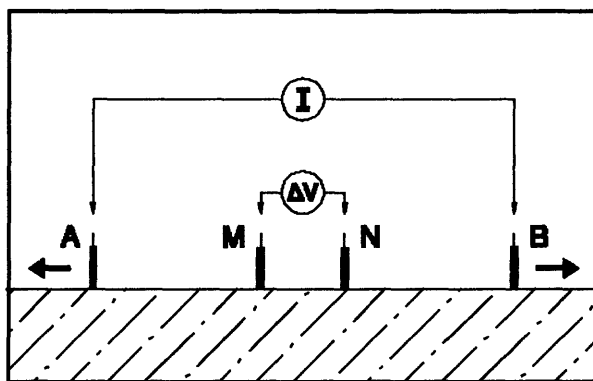


Figure 1. The Schlumberger array in cross section.

Figure 2 shows a station location map of the 52 soundings. Table 1 is a listing of the sounding numbers and their corresponding x, y coordinates in kilometers from the Universal Transverse Mercator Grid, zone 11. The data were interpreted using an automatic computerized interpretation program (Zohdy and Bisdorf, 1989) written for IBM PC's and compatible computers. The soundings are designated 29 Palms 1 through 29 Palms 52. The sounding numbered 49 on figure 2 represents 16 short (maximum $AB/2=300$ feet) soundings spaced 200 feet apart from the location dot to the west along the road. In the appendix these soundings are designated as 29 Palms 49-00 (00 for zero offset) to 29 Palms 49-30. For each sounding curve, the data in the appendix includes:

- 1) A sounding title is designated by the name of the survey area followed by the sounding number. Several sounding titles have a suffix that indicates what special treatment the sounding may have undergone. For instance the suffix S denotes that the field data were smoothed before the inversion was performed, a suffix F indicates that the last layer resistivity was fixed at some value, and a suffix X indicates that the sounding's S-line (Zohdy and others, 1974 p. 36) was manually extended. Any or all of the suffixes may be attached to the sounding number (see page 7).

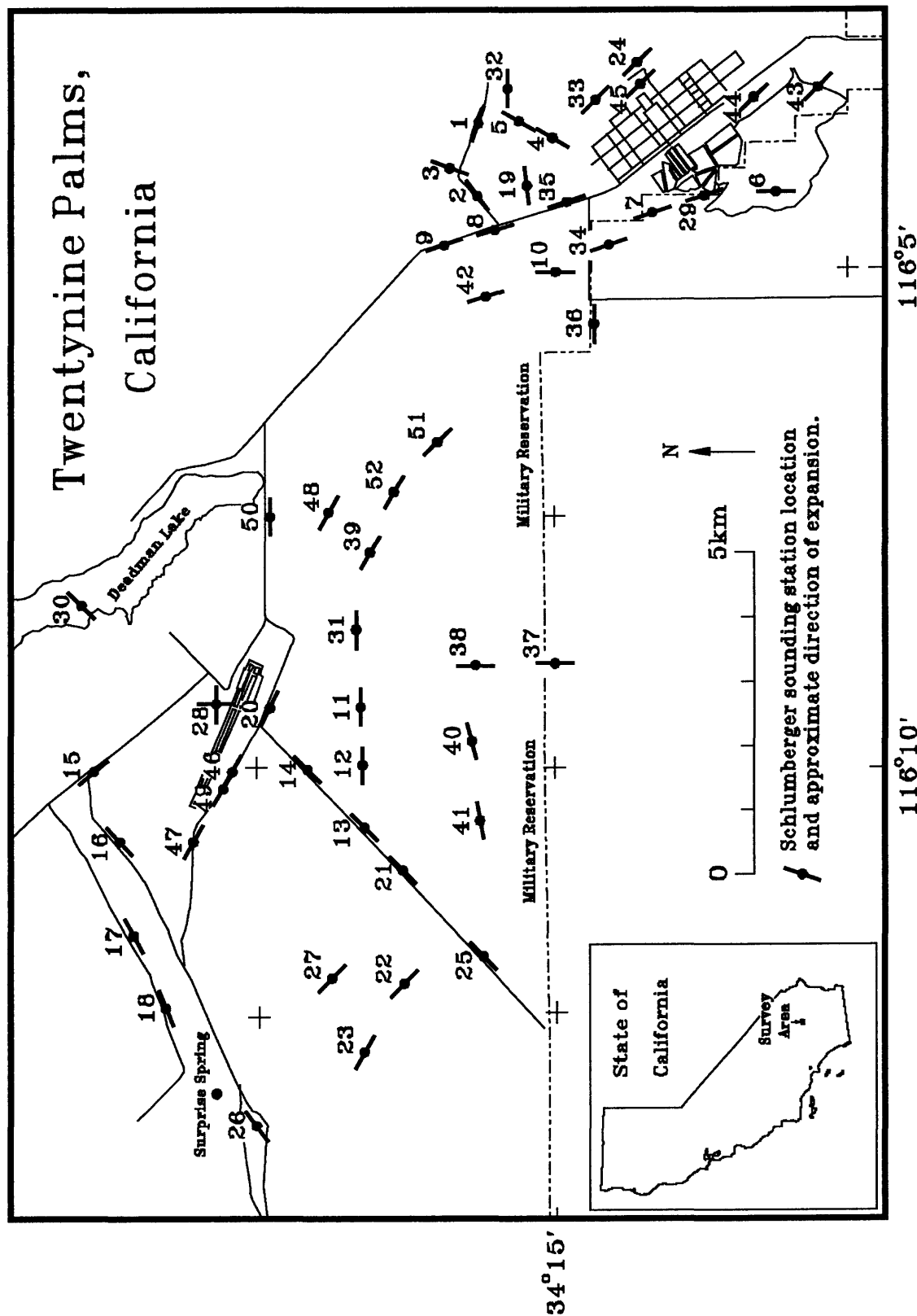


Figure 2. Map showing the Twentynine Palms study area. Circles represent the Schlumberger sounding locations.

In general, only the interpreted sounding titles will have suffixes.

- 2) A tabulation of the AB/2 electrode spacings (in meters and feet) and corresponding apparent resistivities (in ohm-meters).
- 3) A log-log plot of the field data points. Each set of data points that were made with the same potential electrode spacing (MN) is connected with a solid line. Measurements were made at MN/2 spacings of 2, 20, 60, 200, and 600 feet as appropriate.
- 4) A tabulation of the automatically interpreted layering with depths in meters and feet and the corresponding resistivities in ohm-meters.
- 5) A log-log plot of the results of the automatic interpretation program. The circles represent the shifted-digitized field data, the continuous curve represents the sounding curve calculated from the interpreted layering, and the step-function curve represents the interpreted layering.

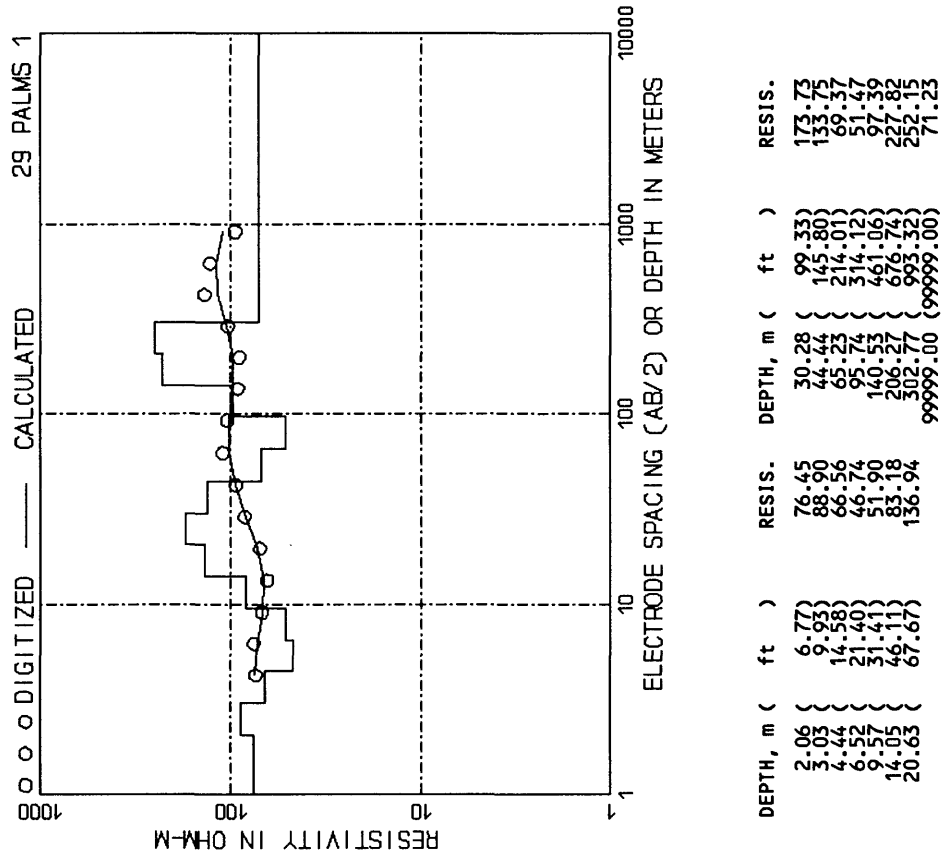
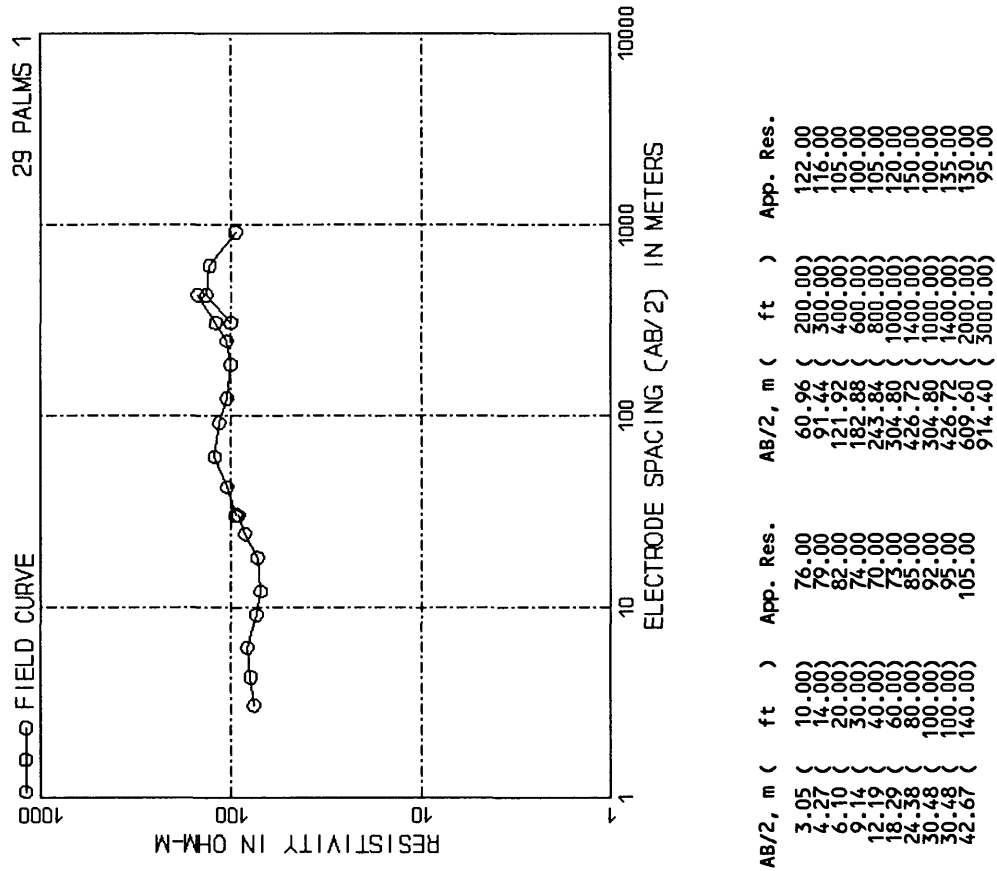
Sounding Number	x	y	Sounding Number	x	y	Sounding Number	x	y
1	586.66	3791.26	19	585.70	3790.49	37	578.29	3790.05
2	585.54	3791.27	20	577.59	3794.50	38	578.26	3791.30
3	585.97	3791.70	21	575.06	3792.42	39	580.00	3792.94
4	586.44	3790.10	22	573.35	3792.39	40	577.08	3791.35
5	586.70	3790.63	23	572.29	3793.01	41	575.83	3791.22
6	585.61	3786.62	24	587.61	3788.78	42	583.96	3791.14
7	585.28	3788.54	25	573.76	3791.16	43	587.23	3785.98
8	585.01	3790.99	26	571.16	3794.69	44	587.07	3786.97
9	584.77	3791.79	27	573.42	3793.52	45	587.27	3788.73
10	584.35	3790.05	28	577.66	3795.33	46	576.59	3795.08
11	577.61	3793.09	29	585.55	3787.73	47	575.50	3795.68
12	576.70	3793.05	30	579.18	3797.41	48	580.62	3793.59
13	575.72	3793.02	31	578.81	3793.16	49	576.32	3795.22
14	576.63	3793.91	32	587.21	3790.80	50	580.55	3794.50
15	576.59	3797.22	33	587.03	3789.43	51	581.72	3791.89
16	575.50	3796.82	34	584.78	3789.22	52	580.94	3792.57
17	574.06	3796.60	35	585.45	3789.87			
18	572.96	3796.10	36	583.54	3789.45			

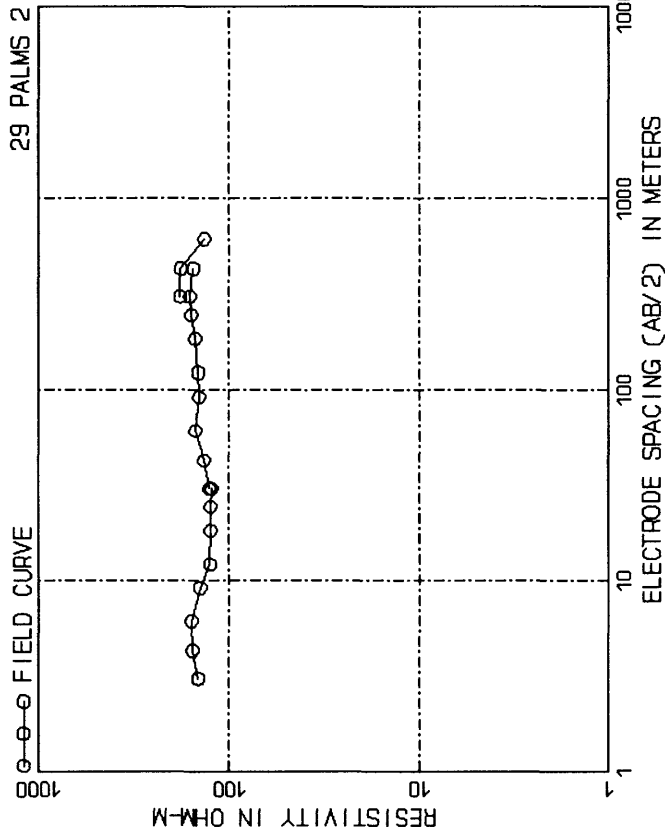
Table 1. Sounding coordinates in kilometers from the Universal Transverse Mercator Grid, Zone 11

REFERENCES

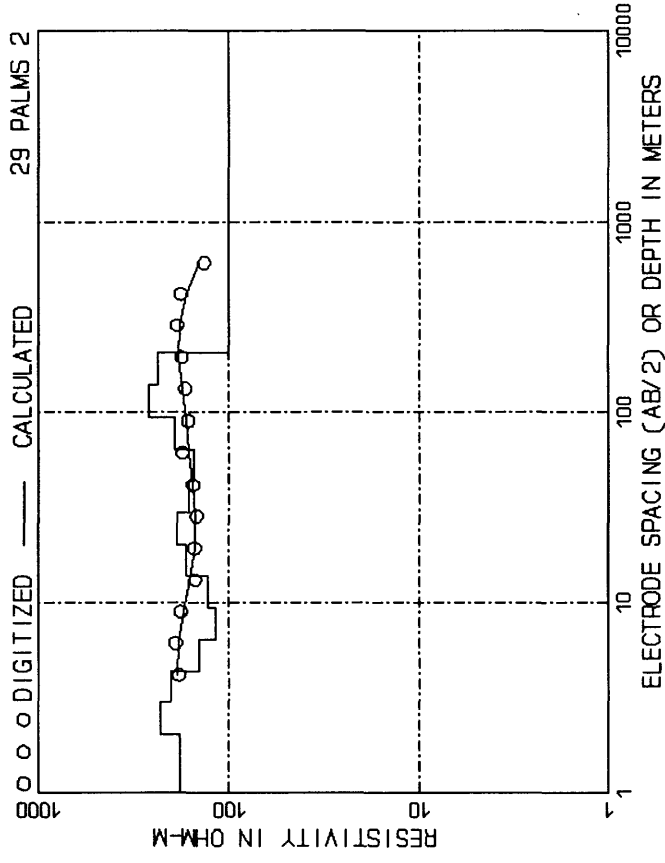
- Dibblee, T. W. Jr., 1967, Geologic map of the Deadman Lake quadrangle, San Bernardino County, California: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-488.
- _____, 1968, Geologic map of the Twentynine Palms quadrangle, San Bernardino and Riverside Counties, California: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-561.
- Zohdy, A.A.R., and Bisdorf, R.J., 1982, Schlumberger soundings in the Medicine Lake area, California: U.S. Geological Survey Open-File Report 82-887, 162 p.
- _____, 1989, Programs for the automatic processing and interpretation of Schlumberger sounding curves in QuickBASIC 4.0: U.S. Geological Survey Open-File Report, 89-137 A&B, 64 p. + diskette.
- Zohdy, A.A.R., Eaton, G.P., and Mabey, D.R., 1974, Application of surface geophysics to ground-water investigations: Techniques of water-resources investigations of the United States Geological Survey, Book 2, Chapter D1, 116 p.

APPENDIX

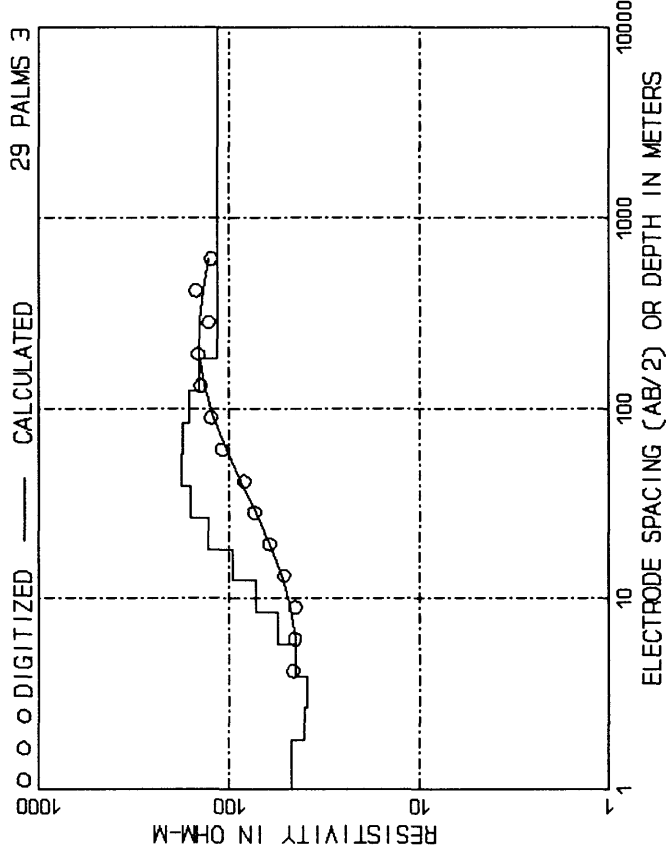




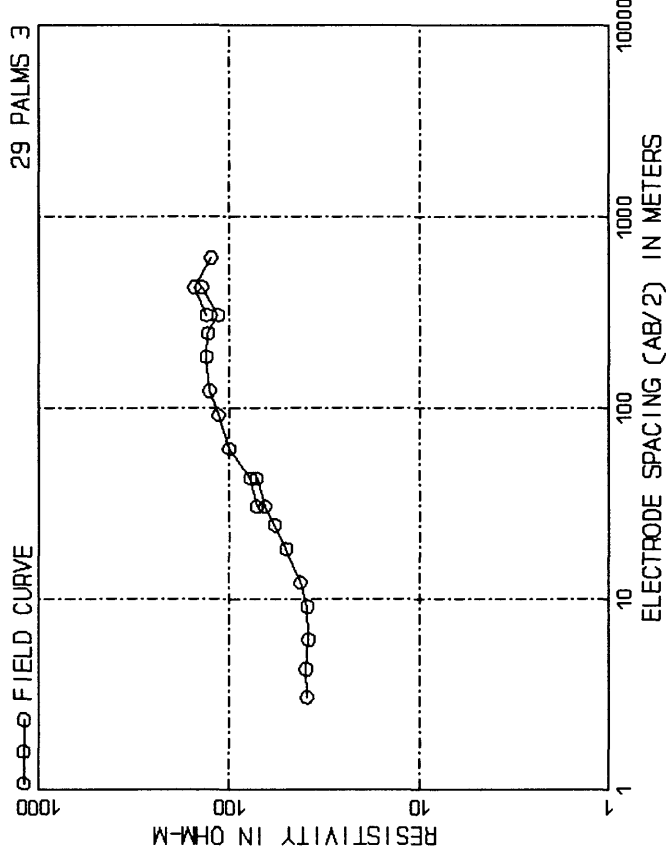
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	145.00	60.96 (	200.00)	150.00
4.27 (	14.00)	155.00	91.44 (	300.00)	144.00
6.10 (	20.00)	158.00	121.92 (	400.00)	145.00
9.14 (	30.00)	142.00	182.88 (	600.00)	150.00
12.19 (	40.00)	126.00	243.84 (	800.00)	158.00
18.29 (	60.00)	125.00	304.80 (	1000.00)	160.00
24.38 (	80.00)	125.00	426.72 (	1400.00)	154.00
30.48 (	100.00)	123.00	304.80 (	1000.00)	180.00
42.67 (	140.00)	127.00	426.72 (	1400.00)	180.00
		155.00	609.60 (	2000.00)	135.00



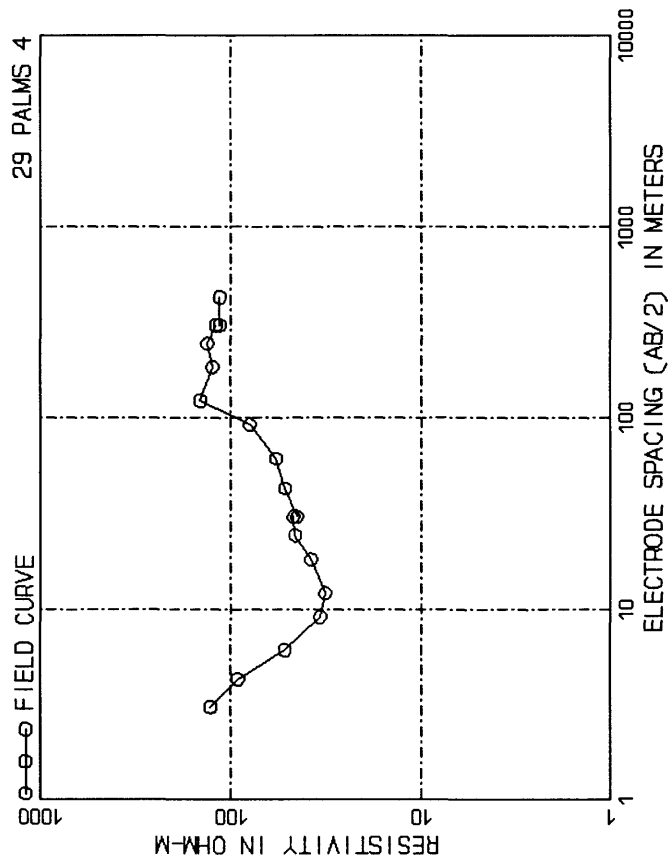
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.02 (	6.62)	180.19	29.63 (	97.20)	185.33
2.96 (	9.72)	226.59	43.49 (	142.67)	163.75
4.35 (	14.27)	201.27	63.83 (	209.41)	153.50
6.38 (	20.94)	142.98	93.69 (	307.37)	193.28
9.37 (	30.74)	116.68	137.51 (	451.16)	261.98
13.75 (	45.12)	129.14	201.84 (	662.22)	235.89
20.18 (	66.22)	166.78	99999.00 (	99999.00)	101.02



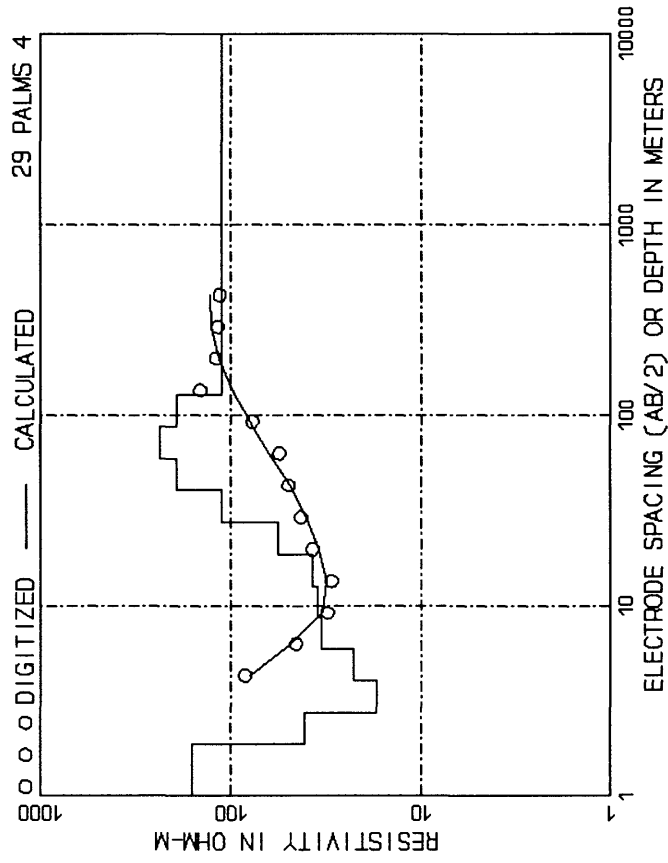
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.82 (	5.96)	47.31	26.66 (	87.48)	128.78
2.67 (	8.75)	40.05	39.14 (	128.40)	160.73
3.91 (	12.84)	38.81	57.45 (	188.47)	178.53
5.74 (	18.85)	44.59	84.32 (	276.64)	176.71
8.43 (	27.66)	55.72	123.76 (	406.05)	163.68
12.38 (	40.60)	72.08	181.66 (	595.99)	143.31
18.17 (	59.60)	96.45	99999.00 (	99999.00)	114.70



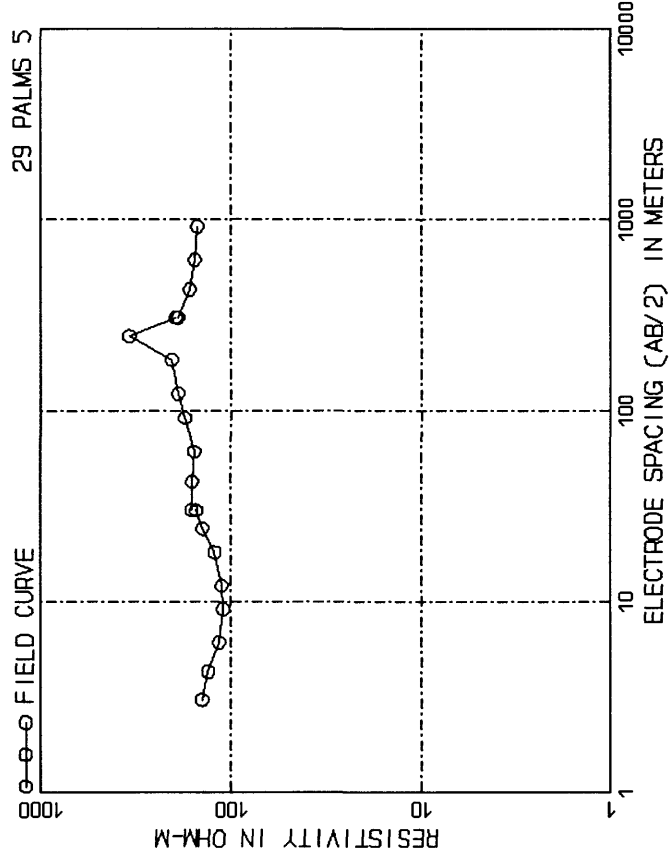
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	39.00	42.67 (	140.00)	78.00
4.27 (	14.00)	39.50	60.96 (	200.00)	100.00
6.10 (	20.00)	38.30	91.44 (	300.00)	114.00
9.14 (	30.00)	38.80	121.92 (	400.00)	127.00
12.19 (	40.00)	42.20	182.88 (	600.00)	132.00
18.29 (	60.00)	50.50	243.84 (	800.00)	130.00
24.38 (	80.00)	58.00	304.80 (	1000.00)	115.00
30.48 (100.00)	65.00	426.72 (1400.00)	140.00
42.67 (140.00)	72.00	609.60 (2000.00)	153.00
609.60 (2000.00)	72.00			125.00



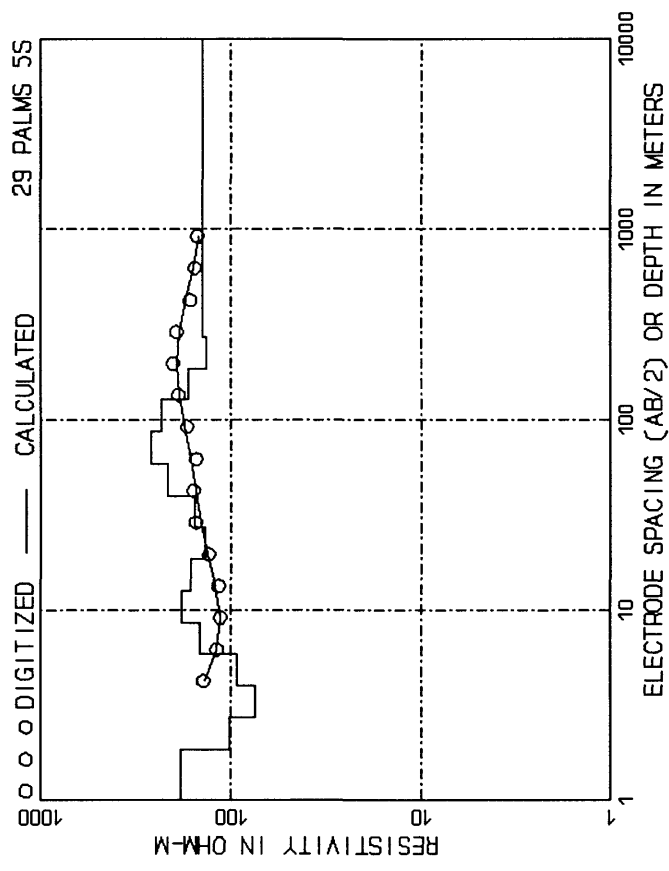
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3.05 (10.00)	128.00	42.67 (140.00)	52.00
4.27 (14.00)	92.00	60.96 (200.00)	58.00
6.10 (20.00)	52.00	91.44 (300.00)	80.00
9.14 (	30.00)	34.00	121.92 (	400.00)	142.00
12.19 (	40.00)	32.00	182.88 (	600.00)	125.00
18.29 (	60.00)	38.00	243.84 (	800.00)	133.00
24.38 (	80.00)	46.00	304.80 (	1000.00)	120.00
30.48 (	100.00)	47.00	304.80 (	1000.00)	115.00
		45.00	426.72 (	1400.00)	115.00



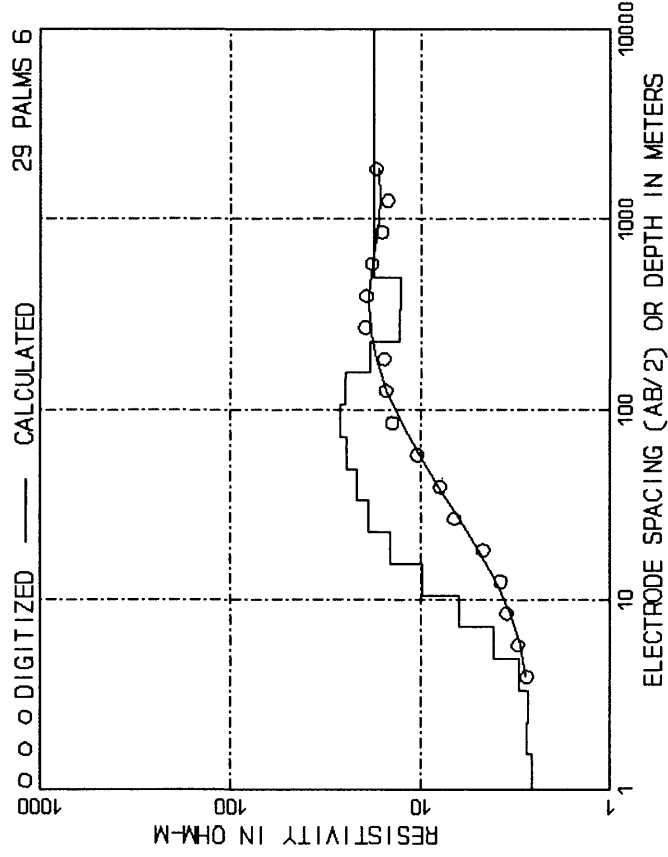
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.87 (	6.12)	159.53	18.66 (	61.24)	37.09
2.74 (	8.99)	40.65	27.40 (	89.88)	56.54
4.02 (	13.19)	17.16	40.21 (	131.92)	111.51
5.90 (	19.36)	22.78	59.02 (	193.62)	191.75
8.66 (	28.42)	33.37	86.63 (	284.23)	234.80
12.72 (	41.72)	35.18	127.16 (	417.20)	194.20
			99999.00 (	99999.00)	111.85



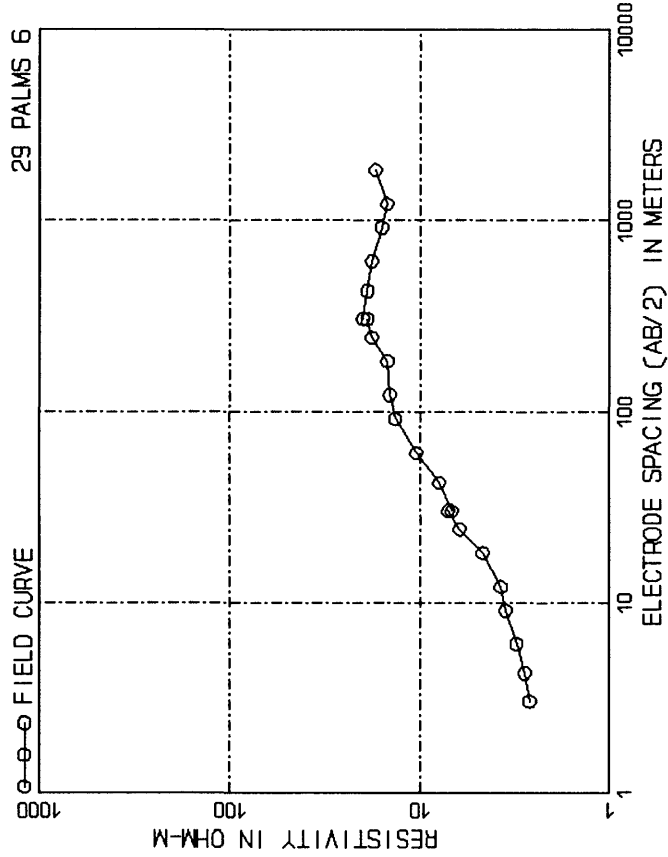
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	142.00	60.96 (	200.00)	156.00
4.27 (	14.00)	132.00	91.44 (	300.00)	175.00
6.10 (	20.00)	116.00	121.92 (	400.00)	190.00
9.14 (	30.00)	110.00	185.88 (	600.00)	205.00
12.19 (	40.00)	112.00	243.84 (	800.00)	344.00
18.29 (	60.00)	122.00	304.80 (	1000.00)	195.00
24.38 (	80.00)	141.00	426.72 (	1400.00)	190.00
30.48 (	100.00)	152.00	609.60 (	2000.00)	165.00
42.67 (	140.00)	160.00	914.40 (	3000.00)	150.00



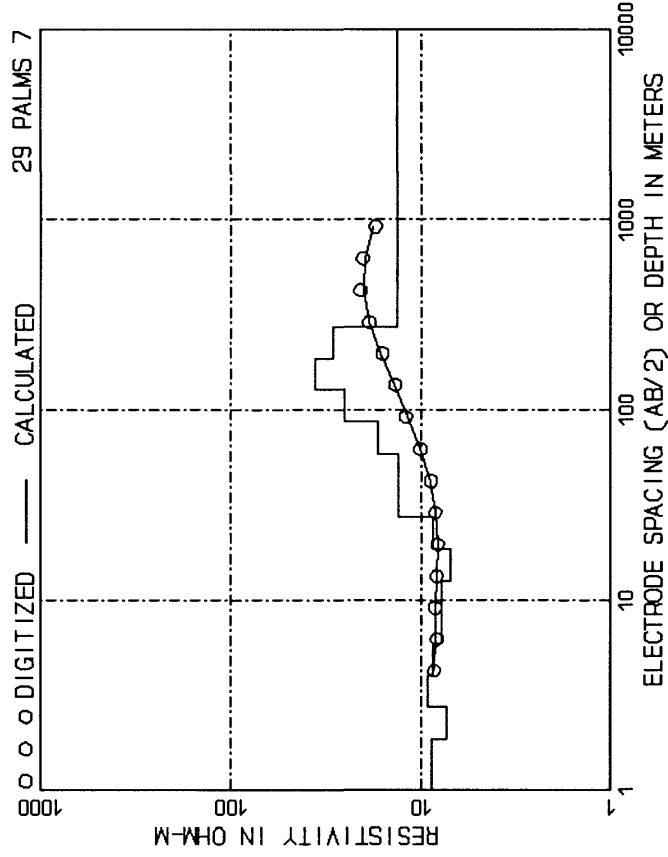
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	184.45	27.25 (	89.40)	137.53
2.72 (	8.94)	101.51	40.00 (	131.23)	155.43
4.06 (	13.12)	74.55	58.71 (	192.90)	216.16
5.87 (	19.26)	92.60	86.17 (	282.71)	264.10
8.62 (	28.27)	145.01	126.48 (	414.95)	233.52
12.65 (	41.50)	181.13	185.64 (	609.07)	167.14
18.56 (	60.91)	161.66	272.49 (	893.99)	134.40
			99999.00 (	99999.00)	140.34



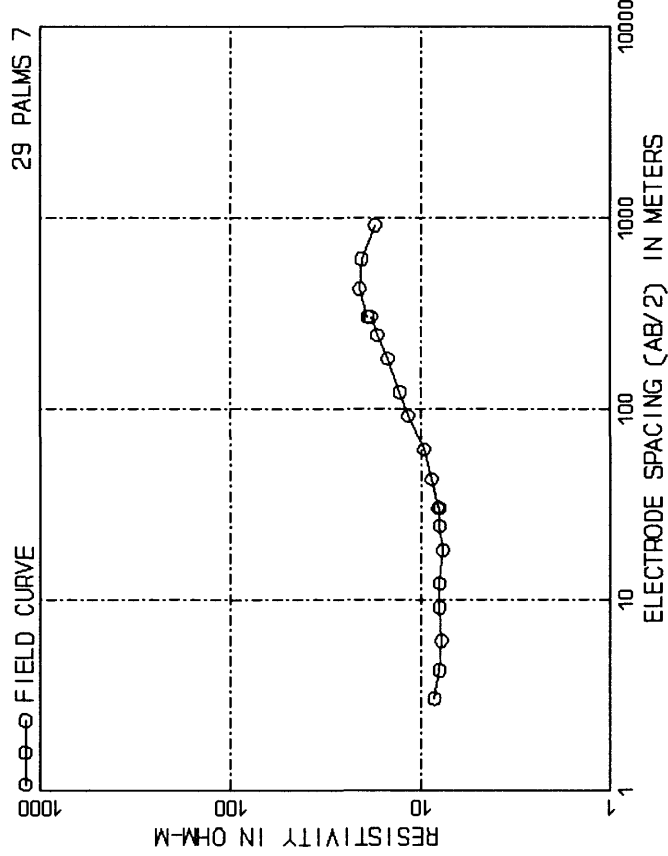
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.55 (	5.09)	2.60	33.42 (	109.63)	18.70
2.28 (	7.47)	2.78	49.05 (	160.92)	21.83
3.34 (	10.96)	3.72	71.99 (	236.20)	24.61
4.90 (	16.09)	3.02	105.67 (	346.69)	26.70
7.20 (	23.62)	4.15	155.10 (	508.87)	24.53
10.57 (	34.67)	6.30	227.66 (	746.92)	18.54
15.51 (	50.89)	9.79	334.16 (	1096.32)	13.06
22.77 (	74.69)	14.40	490.48 (	1609.19)	12.72
			99999.00 (	99999.00)	17.59



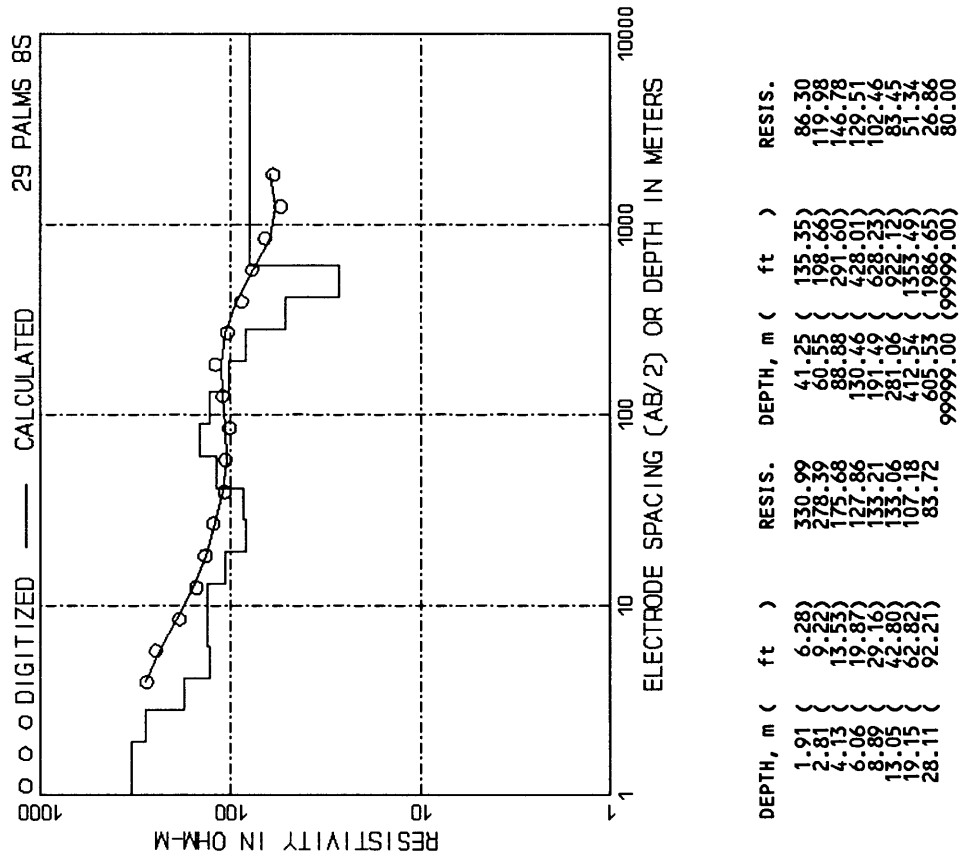
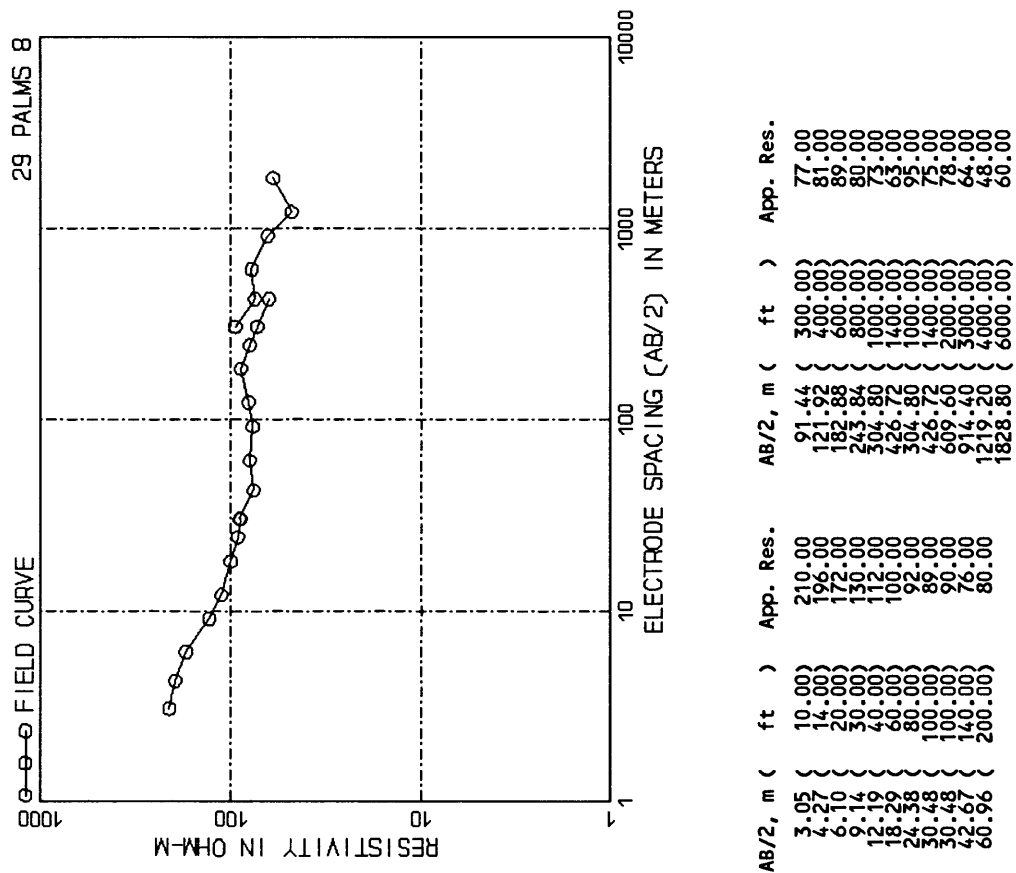
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	2.65	91.44 (	300.00)	13.50
4.27 (	14.00)	2.80	121.92 (	400.00)	14.50
6.10 (	20.00)	3.10	182.88 (	600.00)	17.90
9.14 (	30.00)	3.55	243.84 (	800.00)	18.00
12.19 (	40.00)	3.75	304.80 (	1000.00)	19.00
18.29 (	60.00)	4.66	426.72 (	1400.00)	20.00
24.38 (	80.00)	6.20	609.60 (	2000.00)	19.00
30.48 (	100.00)	7.10	914.40 (	3000.00)	18.00
42.67 (	140.00)	7.90	1219.20 (	4000.00)	17.00
60.96 (	200.00)	10.50	1828.80 (	6000.00)	17.20

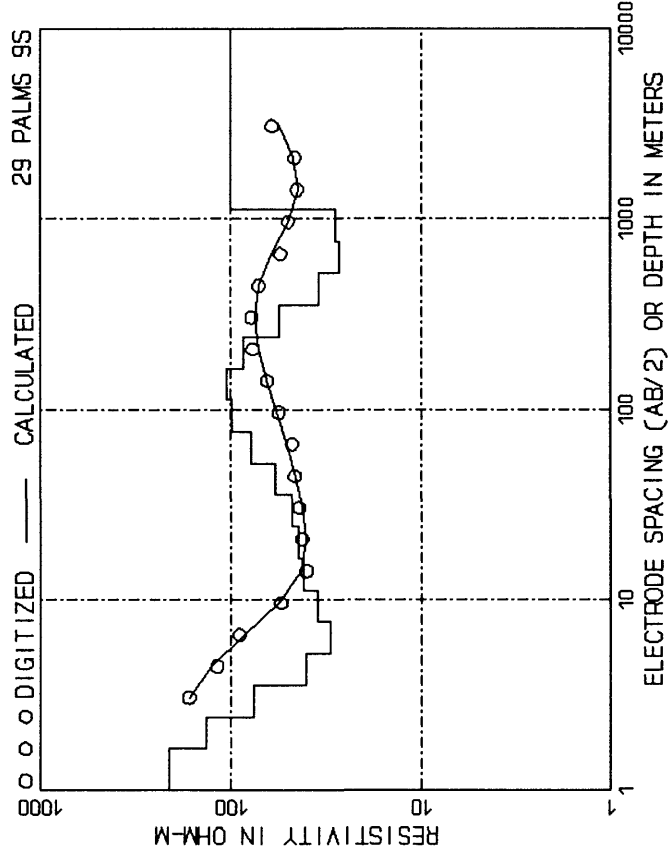


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	8.89	27.25 (	89.40)	8.69
2.72 (	8.94)	7.30	40.00 (	131.23)	13.21
4.06 (	13.12)	9.25	58.71 (	192.60)	13.22
5.87 (	19.26)	8.66	86.17 (	282.71)	16.53
8.62 (	28.27)	7.78	126.48 (	414.95)	25.16
12.65 (	41.50)	7.79	185.64 (	609.07)	36.21
18.56 (	60.91)	6.96	272.49 (	893.99)	29.28
			99999.00 (	99999.00)	13.34

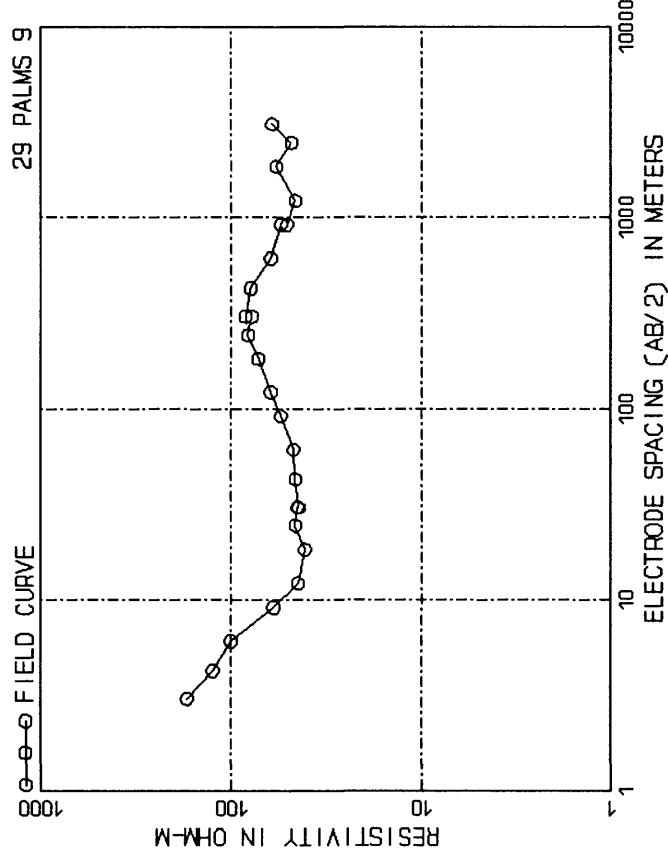


AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	8.50	60.96 (	200.00)	9.70
4.27 (	14.00)	8.00	91.44 (	300.00)	11.70
6.10 (	20.00)	7.80	121.92 (	400.00)	12.90
9.14 (	30.00)	8.00	162.88 (	600.00)	12.00
12.19 (	40.00)	8.00	243.84 (	800.00)	17.00
18.29 (	60.00)	7.70	304.80 (	1000.00)	18.40
24.38 (	80.00)	8.00	426.72 (	1400.00)	19.00
30.48 (	100.00)	8.20	609.60 (	2000.00)	21.00
42.67 (	140.00)	8.80	914.40 (	3000.00)	20.50
					17.50

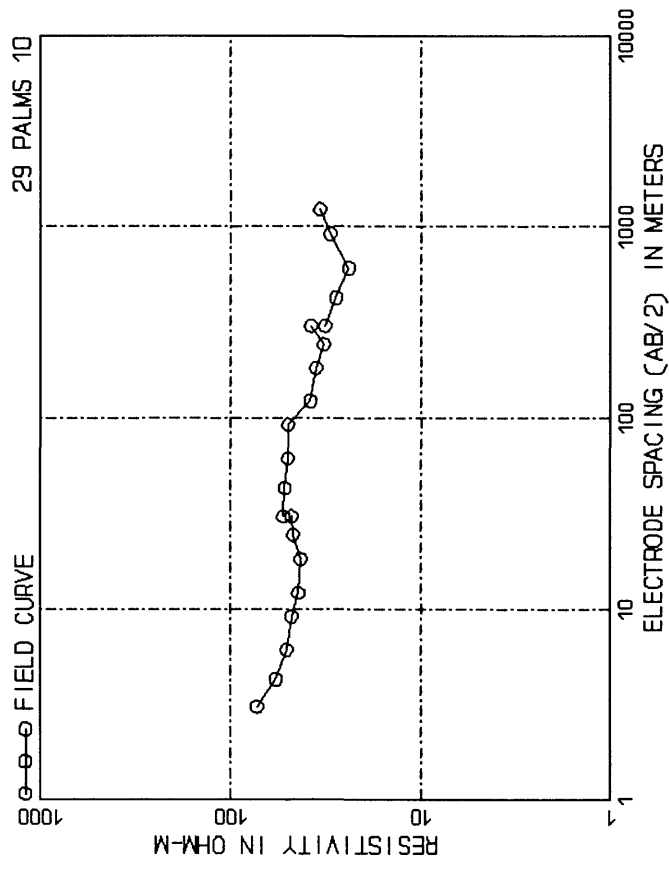




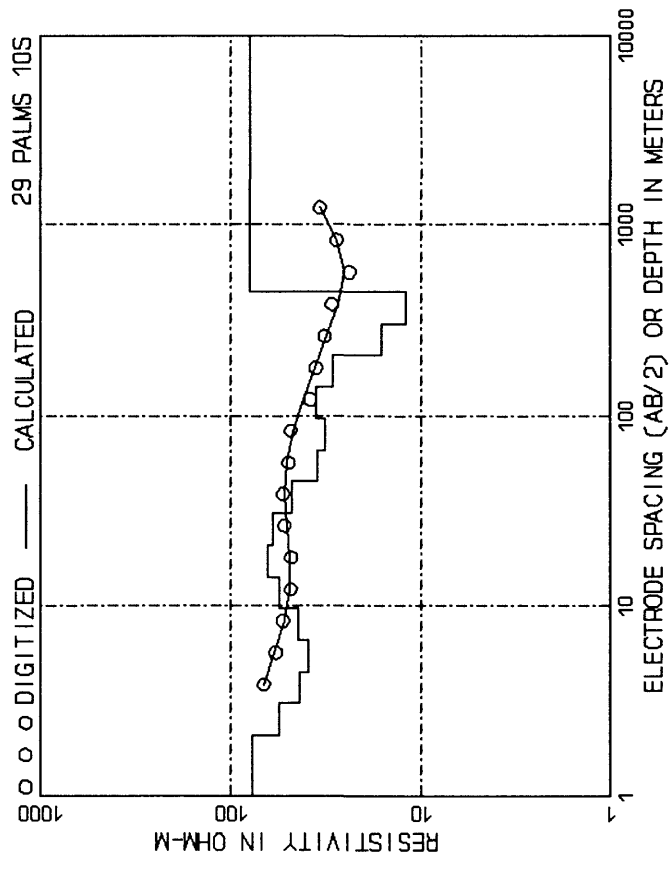
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.65 (	5.40)	211.11	52.05 (	170.76)	58.66
2.42 (	7.93)	134.85	76.40 (	250.65)	78.30
3.55 (	11.63)	76.82	112.14 (	367.90)	99.79
5.20 (	17.08)	40.56	164.59 (	540.00)	105.70
7.64 (	25.06)	29.91	241.59 (	792.61)	86.62
11.21 (	36.79)	35.18	354.60 (	1163.40)	55.99
16.46 (	54.00)	41.71	520.49 (	1707.63)	34.55
24.16 (	79.26)	44.04	763.97 (	2506.46)	26.73
35.46 (	116.34)	47.69	1121.35 (	3678.98)	28.39
			99999.00 (	99999.00)	100.00



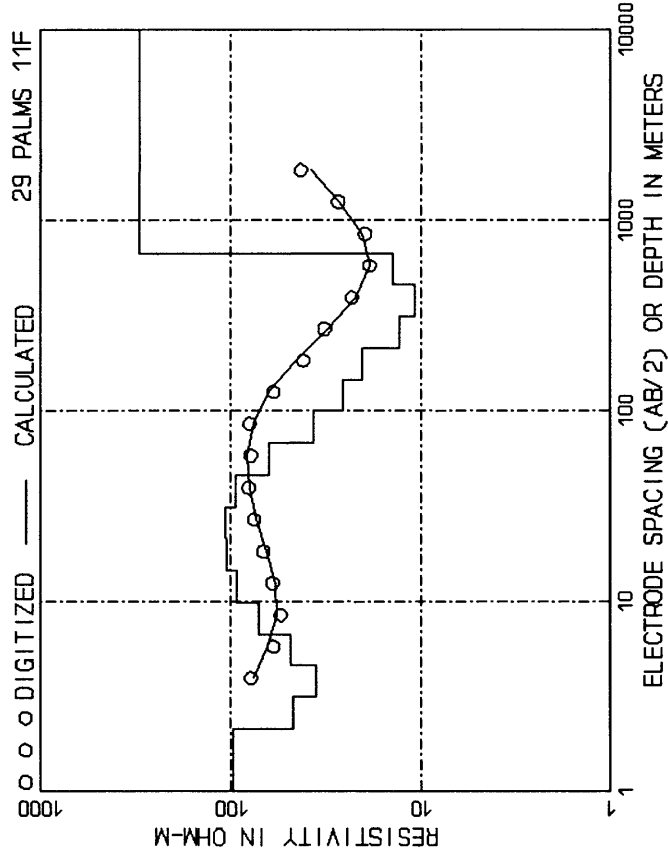
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	170.00	121.92 (	400.00)	62.00
4.27 (	14.00)	125.00	182.88 (	600.00)	72.00
6.10 (	20.00)	100.00	243.84 (	800.00)	81.60
9.14 (	30.00)	60.00	304.80 (	1000.00)	84.00
12.19 (	40.00)	44.50	426.72 (	1400.00)	79.00
18.29 (	60.00)	41.00	609.60 (	2000.00)	62.00
24.38 (	80.00)	46.00	914.40 (	3000.00)	55.00
30.48 (	100.00)	45.00	1219.20 (	4000.00)	46.00
42.67 (	140.00)	46.00	1828.80 (	6000.00)	58.00
60.96 (	200.00)	47.00	2438.40 (	8000.00)	48.20
91.44 (	300.00)	55.00	3048.00 (	10000.00)	61.00



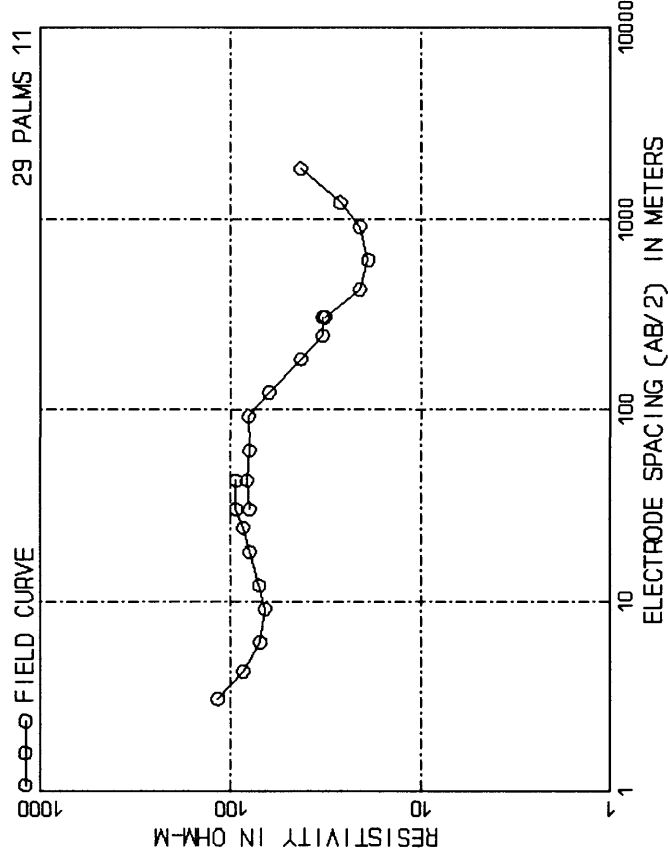
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	73.00	60.96 (	200.00)	50.00
4.27 (	14.00)	58.00	91.44 (	300.00)	50.00
6.10 (	20.00)	51.00	121.92 (	400.00)	38.20
9.14 (	30.00)	48.00	182.88 (	600.00)	35.50
12.19 (	40.00)	44.00	243.84 (	800.00)	32.50
18.29 (	60.00)	43.00	304.80 (	1000.00)	38.00
24.38 (	80.00)	47.00	426.72 (	1400.00)	32.00
30.48 (	100.00)	48.00	609.60 (	2000.00)	28.00
42.67 (	140.00)	52.00	914.40 (	3000.00)	24.00
			1219.20 (	4000.00)	34.00



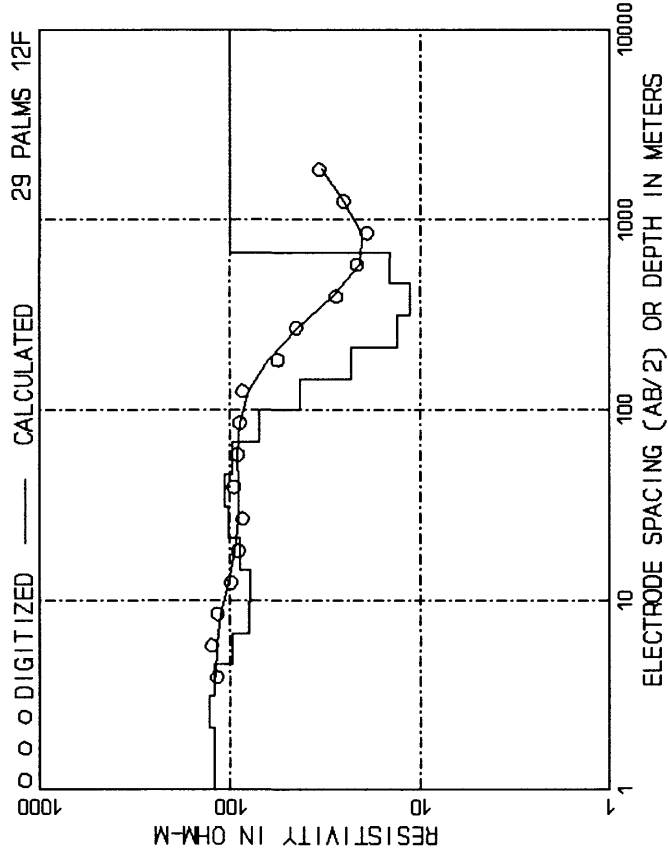
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	77.01	44.85 (	147.16)	47.51
3.06 (	10.03)	56.15	65.84 (	216.00)	34.99
4.49 (	14.72)	43.18	96.64 (	317.04)	32.11
6.58 (	21.60)	38.95	141.84 (	465.36)	35.59
9.66 (	31.70)	44.33	208.19 (	683.05)	29.17
14.18 (	46.54)	56.19	305.59 (	1002.58)	16.21
20.82 (	68.31)	63.68	448.54 (	1471.59)	11.96
30.56 (	100.26)	60.14	99999.00 (	99999.00)	80.00



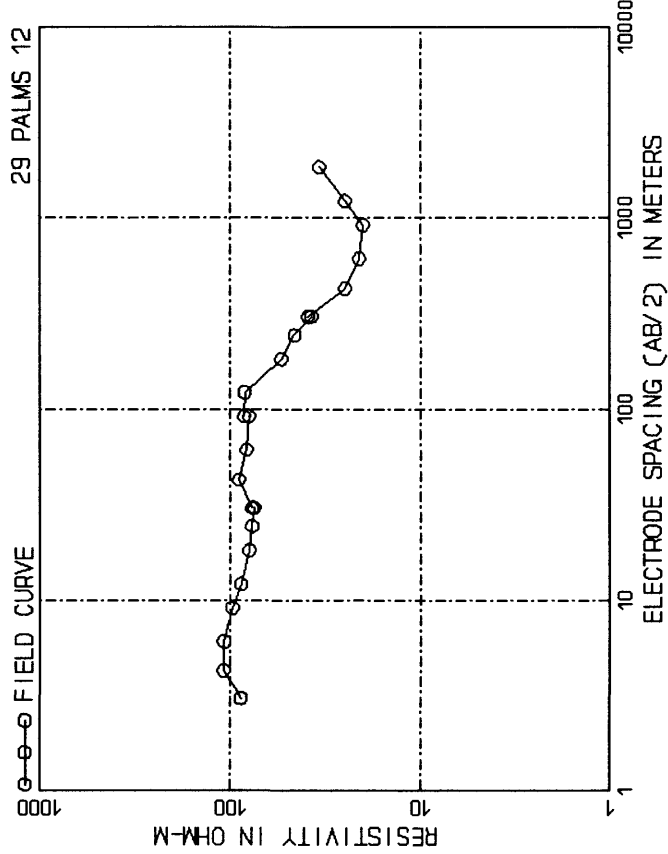
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	97.34	45.84 (	150.39)	93.72
3.12 (	10.25)	47.02	67.28 (	220.76)	63.27
4.56 (	15.04)	35.36	98.56 (	324.00)	36.69
6.73 (	22.07)	48.22	144.95 (	475.57)	25.64
9.88 (	32.40)	71.55	212.76 (	698.04)	20.22
14.50 (	47.56)	92.51	312.29 (	1024.58)	12.96
21.28 (	69.80)	104.57	458.38 (	1503.88)	10.84
31.23 (	102.46)	107.10	672.81 (	2207.39)	14.03
			99999.00 (	99999.00)	300.00



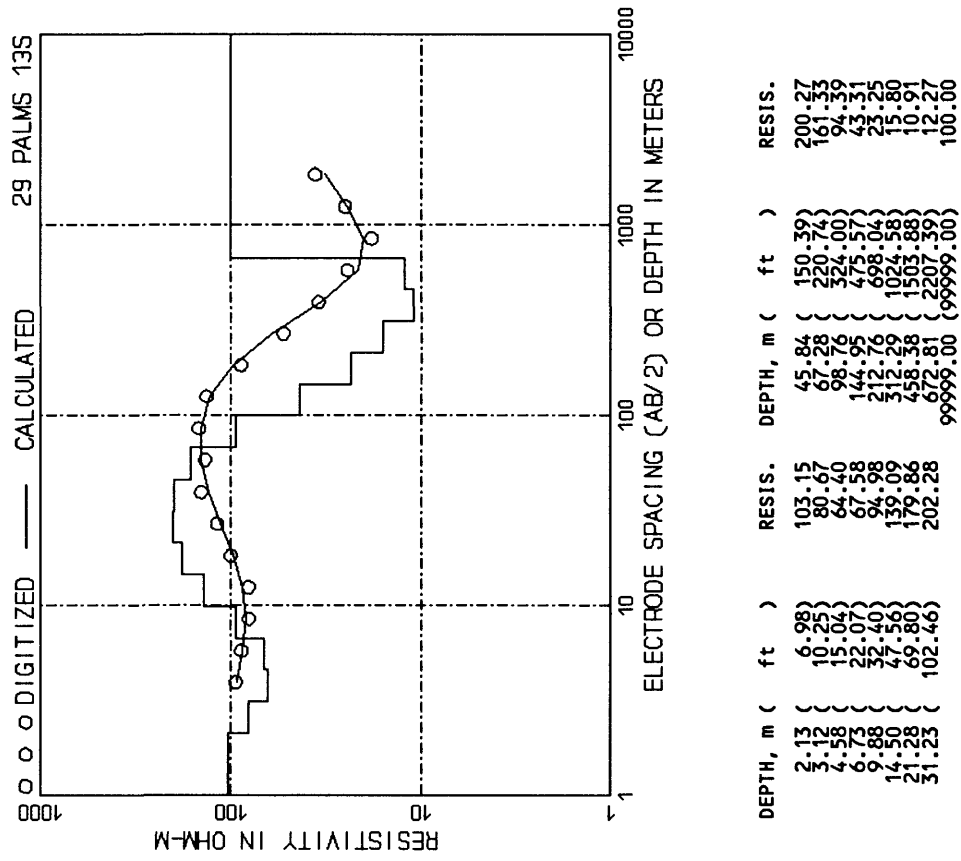
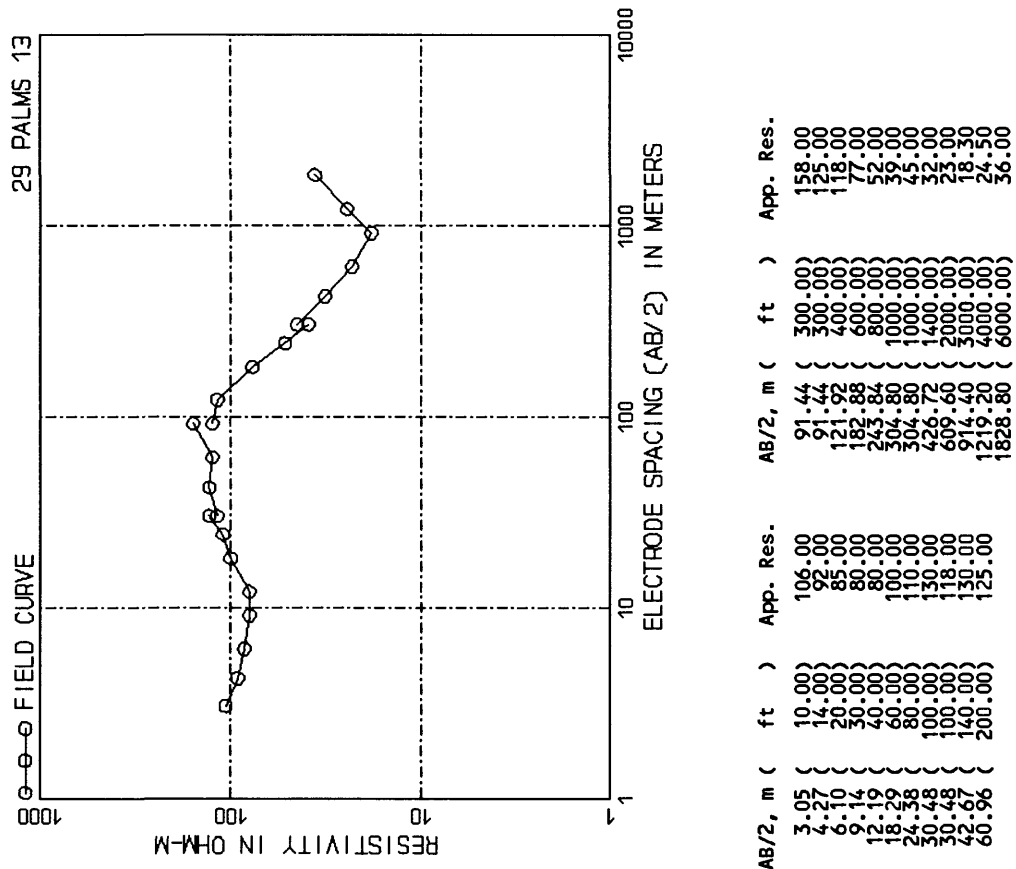
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	117.00	60.96 (	200.00)	80.00
4.27 (	14.00)	86.00	91.44 (	300.00)	81.00
6.10 (	20.00)	70.00	121.92 (	400.00)	63.00
9.14 (	30.00)	66.00	183.88 (	600.00)	43.00
12.19 (	40.00)	71.00	243.84 (	800.00)	33.00
18.29 (	60.00)	80.00	304.80 (	1000.00)	32.00
24.38 (	80.00)	86.00	426.72 (	1400.00)	21.00
30.48 (	100.00)	94.00	609.60 (	2000.00)	19.00
42.67 (	140.00)	80.00	914.40 (	3000.00)	21.00
			1219.20 (	4000.00)	26.70
			1828.80 (	6000.00)	43.00

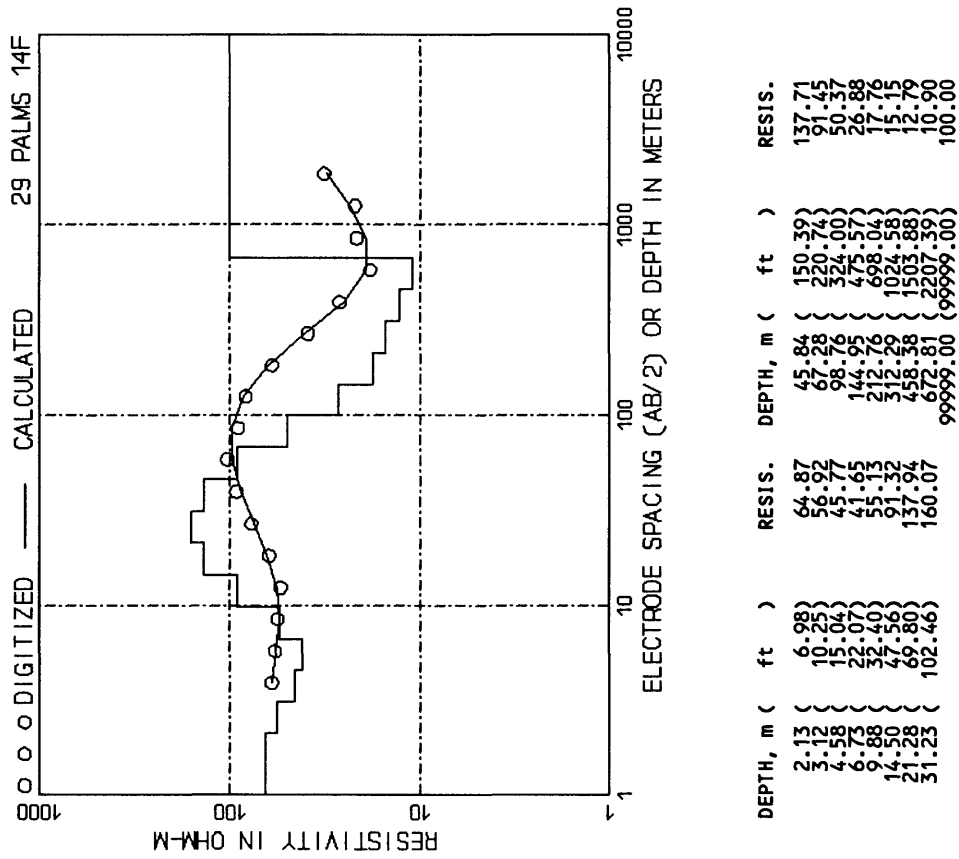
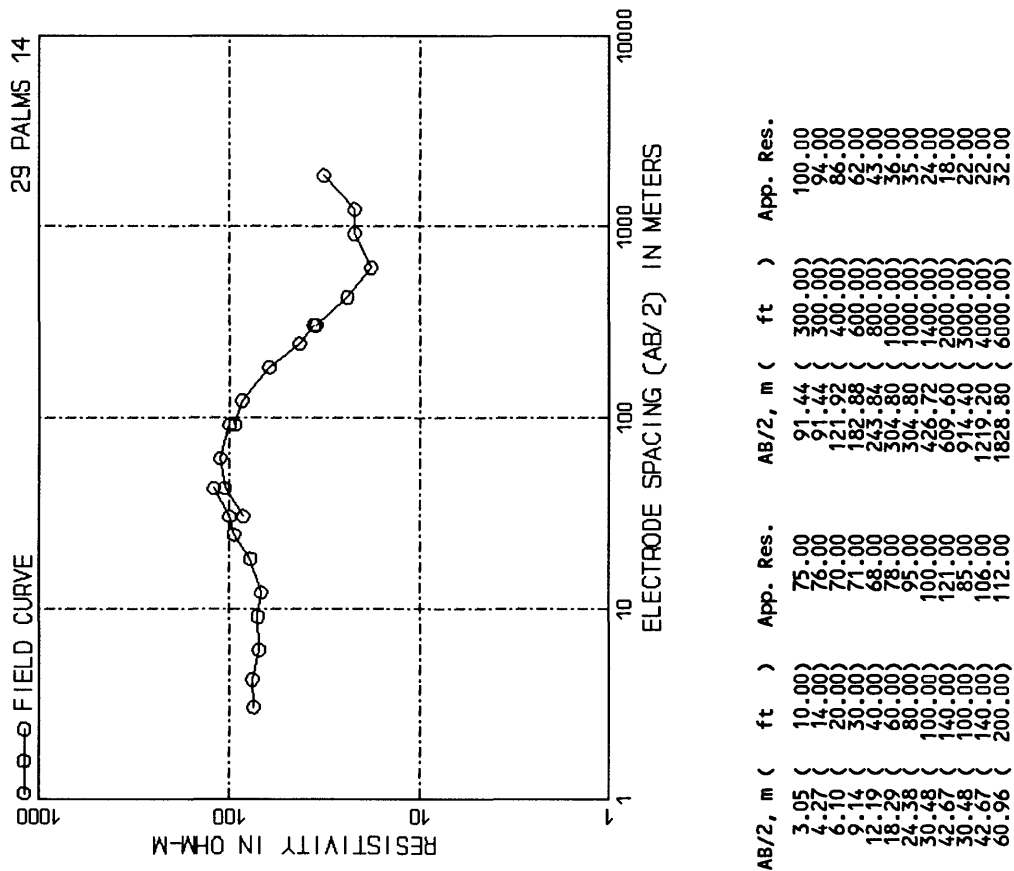


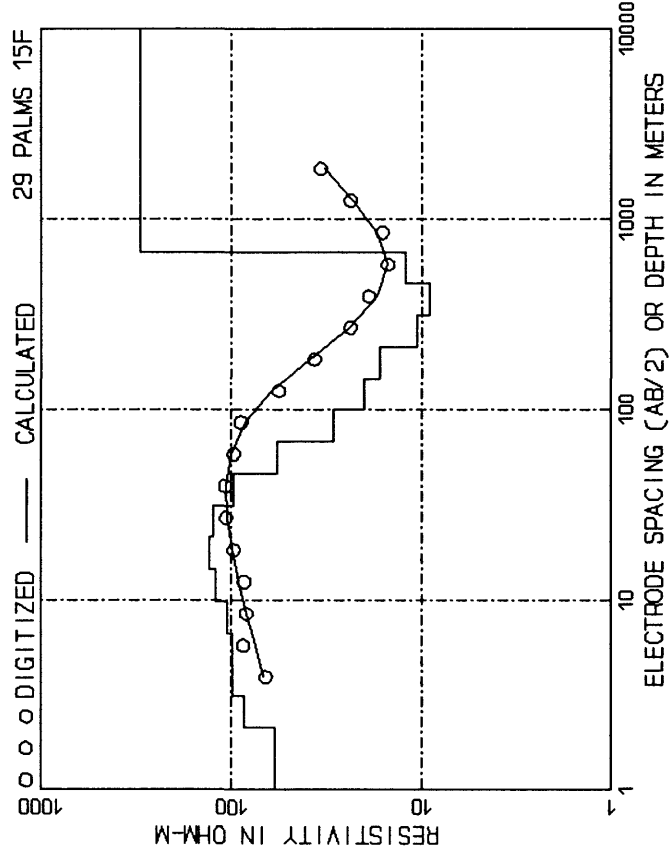
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	120.48	45.84 (	150.39)	107.08
3.12 (	10.25)	129.74	67.28 (	220.76)	96.72
4.58 (	15.04)	131.17	98.56 (	324.00)	70.74
6.73 (	22.07)	67.82	144.95 (	475.57)	42.64
9.88 (	32.40)	79.63	212.76 (	698.06)	23.11
14.50 (	47.56)	77.83	312.59 (	1024.58)	13.30
21.28 (	69.80)	88.63	458.38 (	1503.88)	11.37
31.23 (	102.46)	101.38	672.81 (	2207.39)	14.40
			99999.00 (	99999.00)	100.00



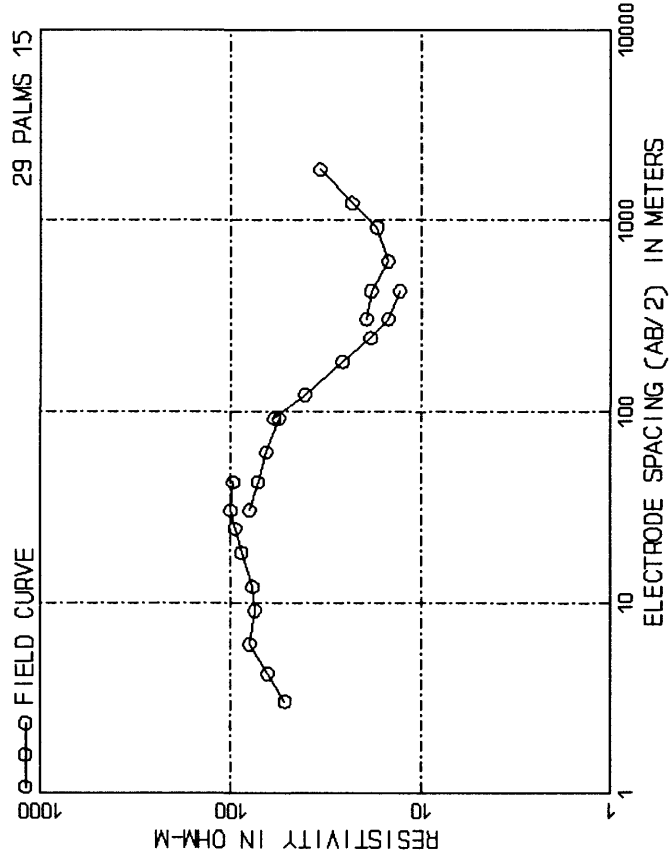
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	88.00	91.44 (	300.00)	80.00
4.27 (	14.00)	109.00	91.44 (	300.00)	85.00
6.10 (	20.00)	108.00	121.92 (	400.00)	84.00
9.14 (	30.00)	98.00	182.88 (	600.00)	54.00
12.19 (	40.00)	88.00	243.84 (	800.00)	46.00
18.29 (	60.00)	80.00	304.80 (	1000.00)	37.50
24.38 (	80.00)	77.00	304.80 (	1000.00)	39.00
30.48 (	100.00)	75.00	426.72 (	1400.00)	25.00
42.67 (	140.00)	90.00	609.60 (	2000.00)	21.00
60.96 (	200.00)	82.00	918.40 (	3000.00)	20.00
			1219.20 (	4000.00)	25.00
			1828.80 (	6000.00)	34.00



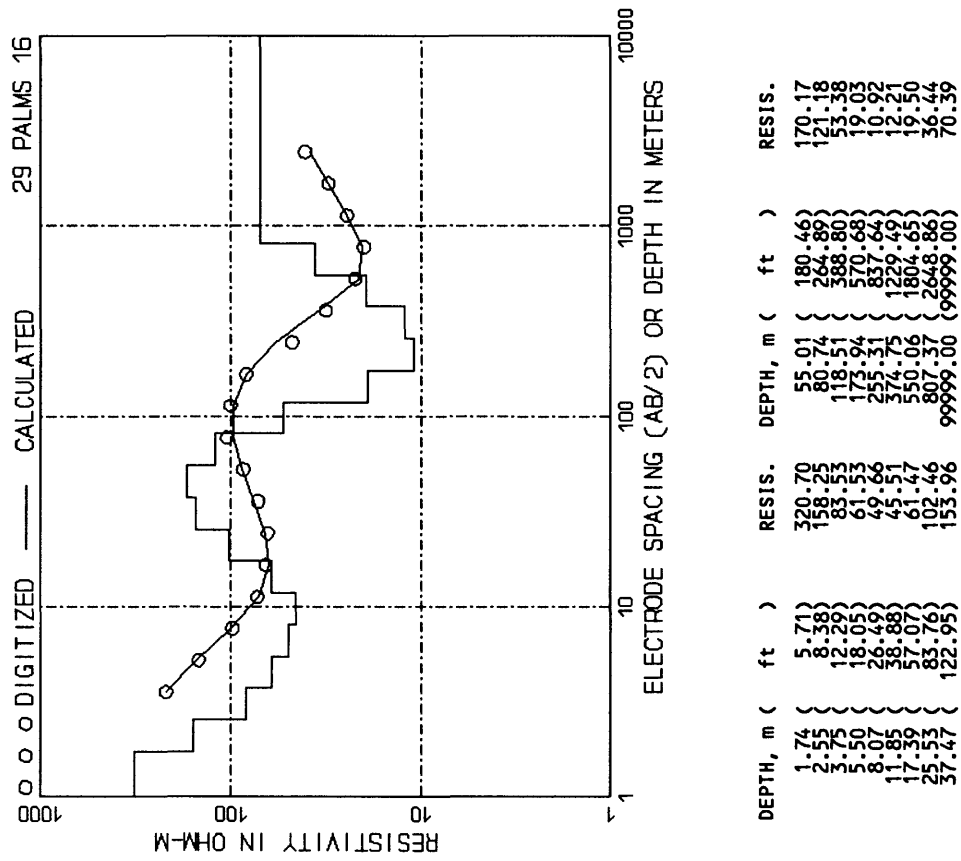
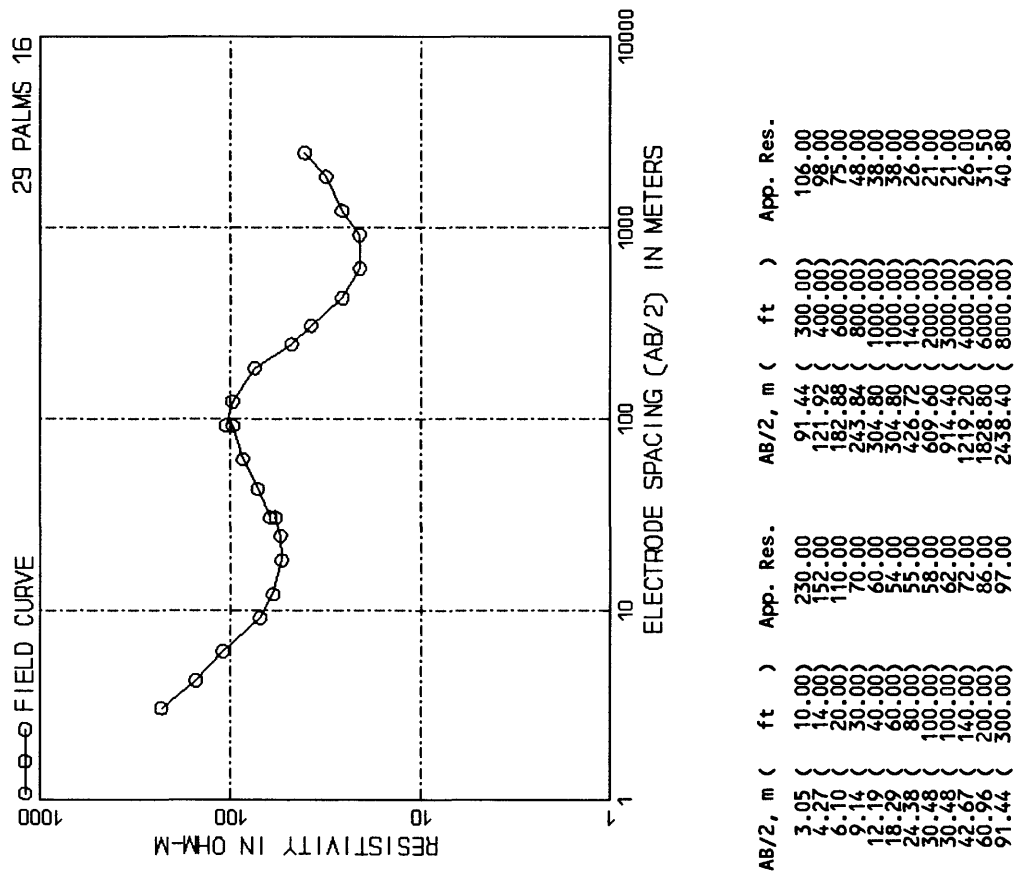


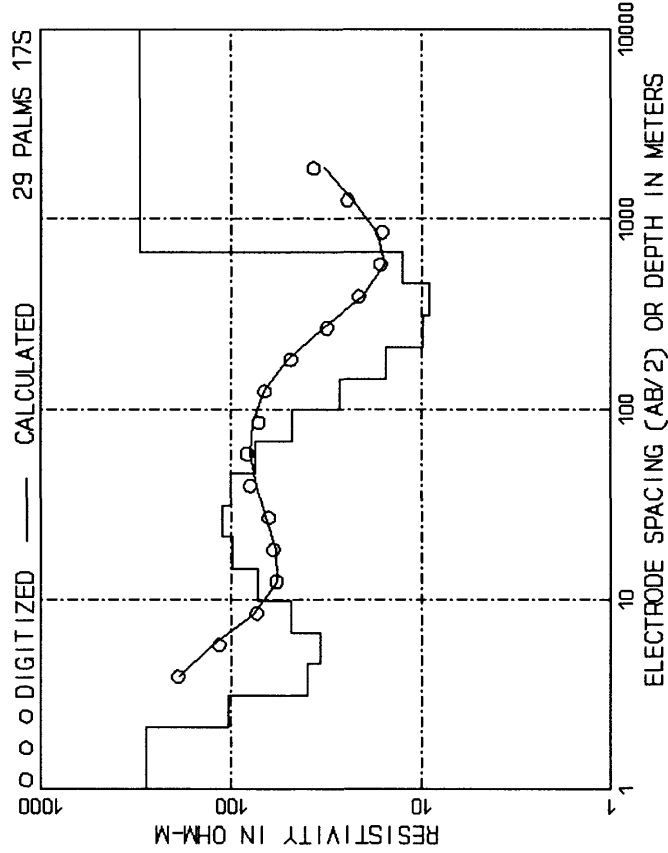


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	59.58	45.84 (	150.39)	97.68
3.12 (	10.25)	86.31	67.28 (	220.71)	57.66
4.58 (	15.04)	98.79	98.56 (	324.00)	29.24
6.73 (	22.07)	99.48	144.95 (	475.57)	19.55
9.88 (	32.40)	105.81	212.76 (	698.04)	16.59
14.50 (	47.56)	120.48	312.29 (	1024.58)	10.68
21.28 (	69.80)	130.90	458.38 (	1503.88)	9.17
31.23 (	102.46)	125.06	672.81 (	2207.39)	12.15
			99999.00 (	99999.00)	300.00

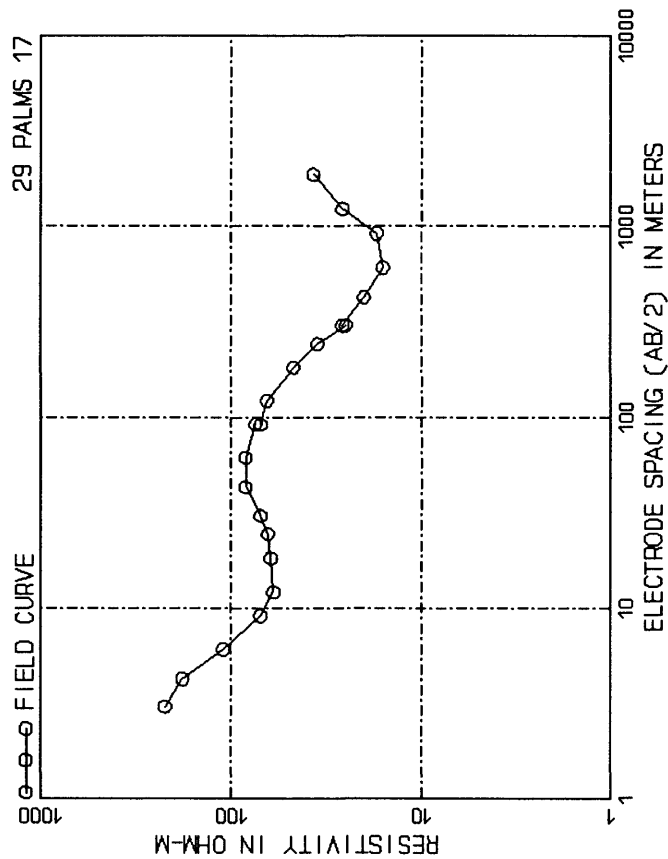


AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	52.00	91.44 (	300.00)	56.00
4.27 (	14.00)	64.00	121.92 (	400.00)	41.00
6.10 (	20.00)	80.00	162.88 (	600.00)	26.00
9.14 (	30.00)	75.00	243.84 (	800.00)	18.50
12.19 (	40.00)	77.00	304.80 (	1000.00)	15.00
18.29 (	60.00)	88.00	426.72 (	1400.00)	13.00
24.38 (	80.00)	95.00	304.80 (	1000.00)	19.50
30.48 (	100.00)	100.00	426.72 (	1400.00)	18.40
42.67 (	140.00)	97.00	609.60 (	2000.00)	15.00
60.96 (	200.00)	80.00	914.40 (	3000.00)	17.10
		72.00	1219.20 (	4000.00)	23.20
		65.00	1828.80 (	6000.00)	34.00

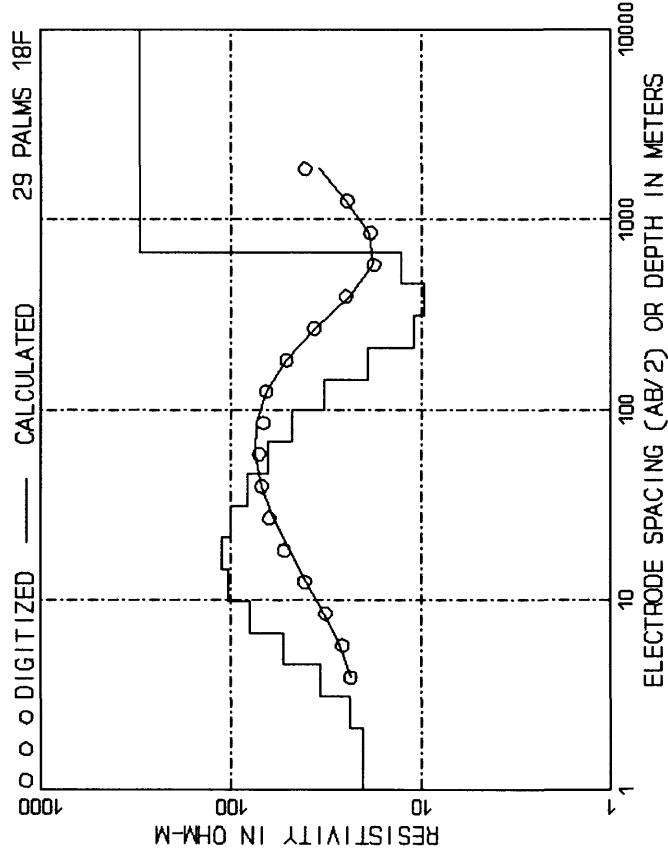




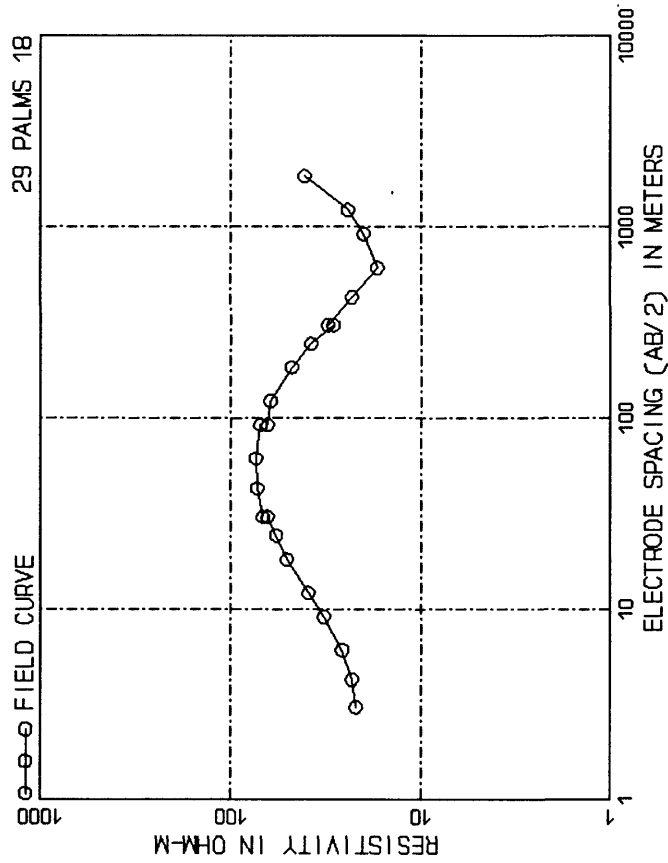
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	280.95	45.84 (	150.39)	100.70
3.12 (	10.25)	103.43	67.28 (	220.76)	75.34
4.58 (	15.04)	39.71	98.66 (	324.00)	47.51
6.73 (	22.07)	33.86	144.25 (	473.57)	26.75
9.88 (	32.40)	48.52	212.76 (	698.04)	15.44
14.50 (	47.56)	72.13	312.29 (	1024.58)	9.81
21.28 (	69.80)	99.47	458.38 (	1503.88)	9.07
31.23 (	102.46)	112.03	672.81 (	2207.39)	12.50
			99999.00 (	99999.00)	300.00



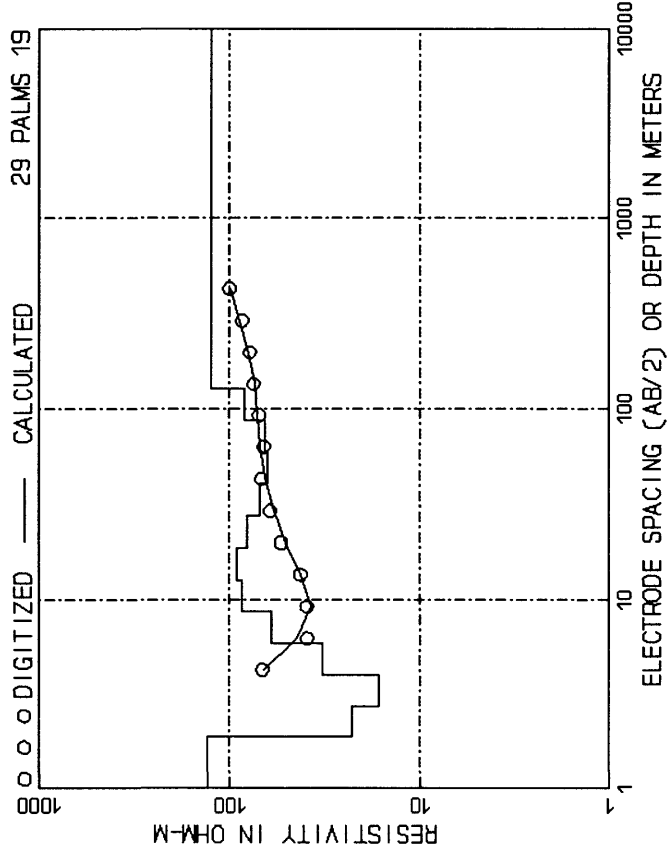
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	223.00	91.44 (	300.00)	75.00
4.27 (	14.00)	180.00	121.92 (	400.00)	65.00
6.10 (	20.00)	110.00	182.88 (	600.00)	47.00
9.14 (	30.00)	70.00	243.84 (	800.00)	35.00
12.19 (	40.00)	60.00	304.80 (	1000.00)	25.00
18.29 (	60.00)	62.00	426.72 (	1400.00)	20.00
24.38 (	80.00)	64.00	609.60 (	2000.00)	16.00
30.48 (	100.00)	70.00	914.40 (	3000.00)	17.20
42.67 (	140.00)	84.00	1219.20 (	4000.00)	26.00
60.96 (	200.00)	84.00	1828.80 (	6000.00)	37.00



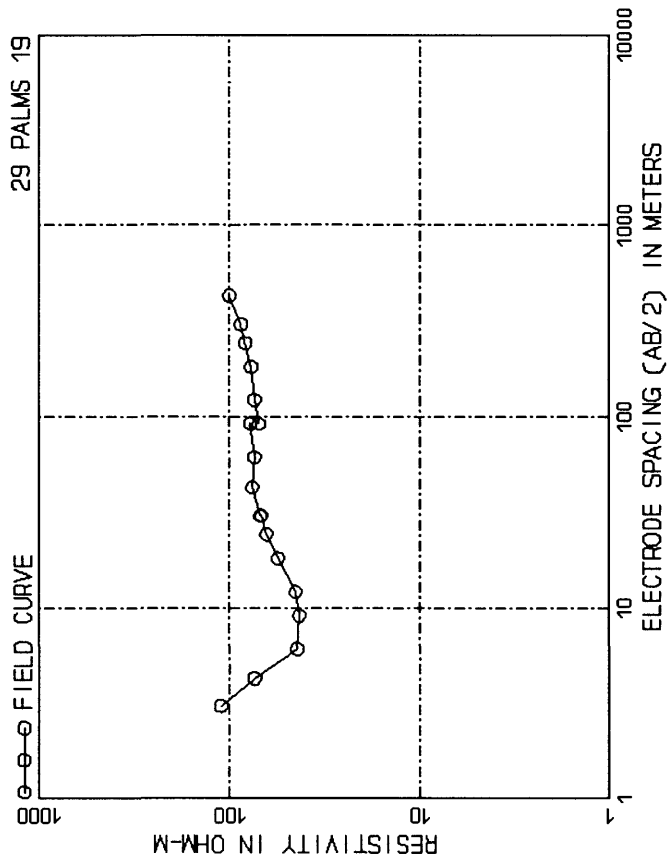
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	20.41	45.84 (	150.39)	81.88
3.58 (	11.74)	23.95	67.28 (	220.76)	63.69
4.58 (	15.02)	34.14	98.66 (	324.00)	47.62
6.73 (	22.07)	53.55	144.95 (	475.57)	32.29
9.88 (	32.40)	79.95	212.76 (	698.04)	19.01
14.50 (	47.56)	103.41	312.29 (	1024.58)	11.04
21.28 (	69.80)	111.44	458.38 (	1503.88)	9.75
31.23 (	102.46)	101.03	672.81 (	2207.39)	12.87
			9999.00 (	9999.00)	300.00



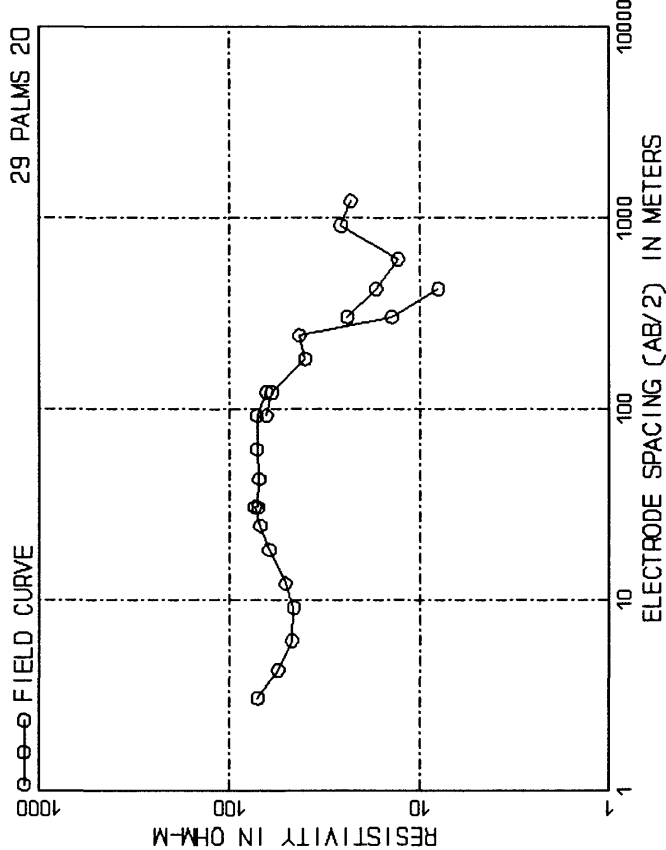
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	22.00	91.44 (	300.00)	70.00
4.27 (	14.00)	23.00	121.92 (	400.00)	64.00
6.10 (	20.00)	26.00	182.88 (	600.00)	62.00
9.14 (	30.00)	32.50	243.84 (	800.00)	48.00
12.19 (	40.00)	39.00	304.80 (	1000.00)	38.00
18.29 (	60.00)	51.00	426.72 (	1400.00)	29.00
24.38 (	80.00)	58.00	609.60 (	2000.00)	31.00
30.48 (	100.00)	64.00	918.40 (	3000.00)	23.00
42.67 (	140.00)	73.00	1219.20 (	4000.00)	17.00
60.96 (	200.00)	74.00	1828.80 (	6000.00)	20.30
					41.00



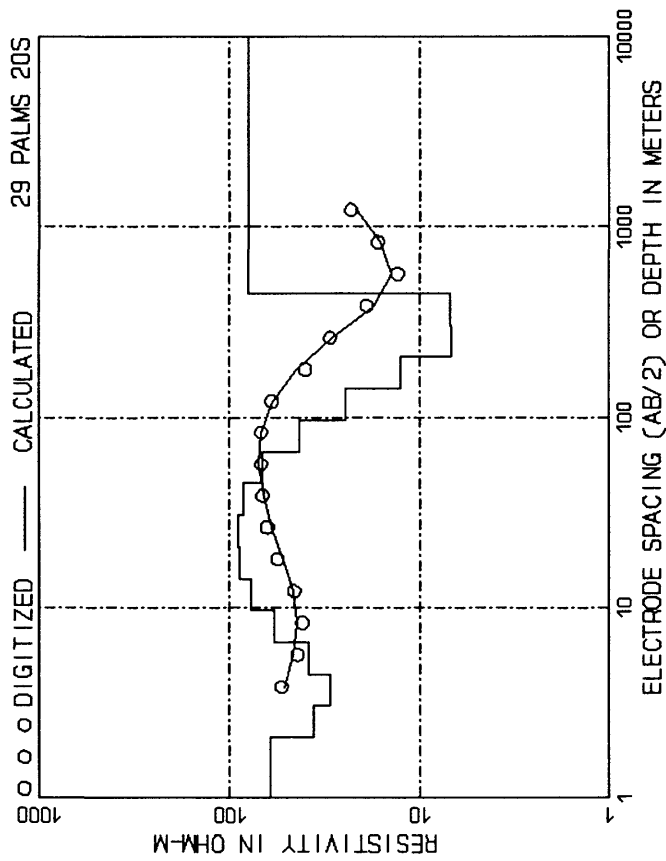
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.87 (	6.12)	131.41	18.66 (	61.24)	91.82
2.74 (	8.99)	22.84	27.40 (	89.88)	80.95
4.02 (	13.19)	16.34	40.21 (	131.93)	69.24
5.90 (	19.36)	32.19	59.02 (	193.63)	62.83
8.66 (	28.42)	60.13	86.63 (	284.23)	64.68
12.72 (	41.72)	85.89	127.16 (	417.20)	82.92
			99999.00 (	99999.00)	124.56



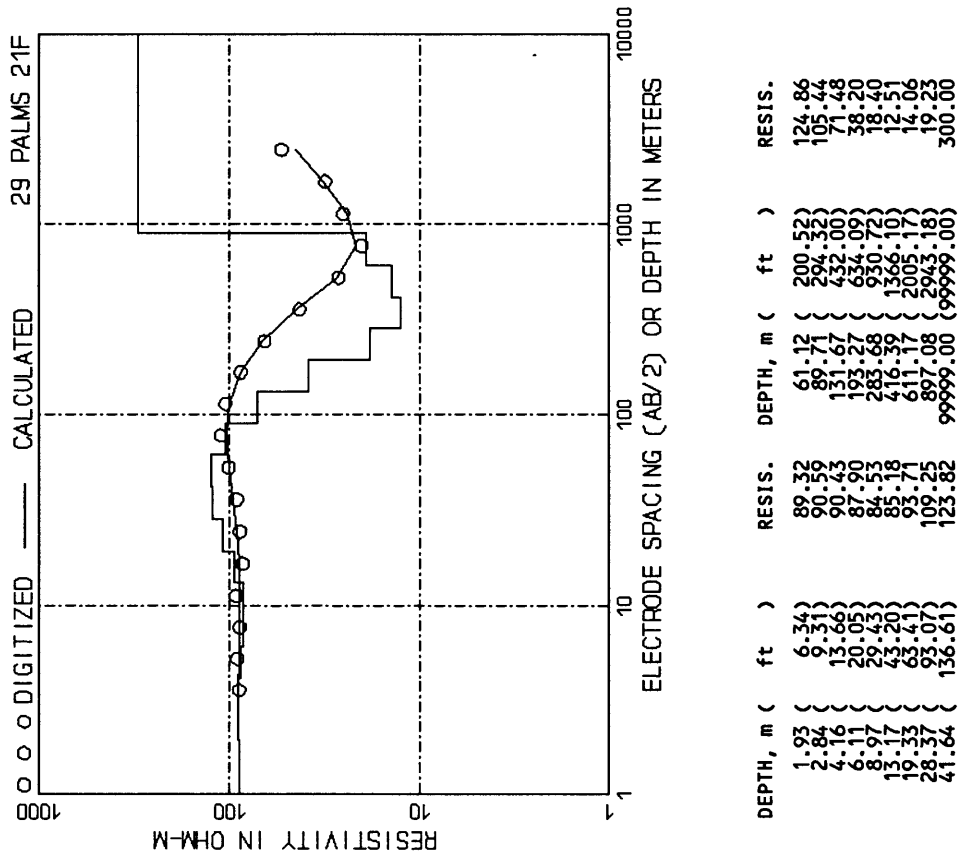
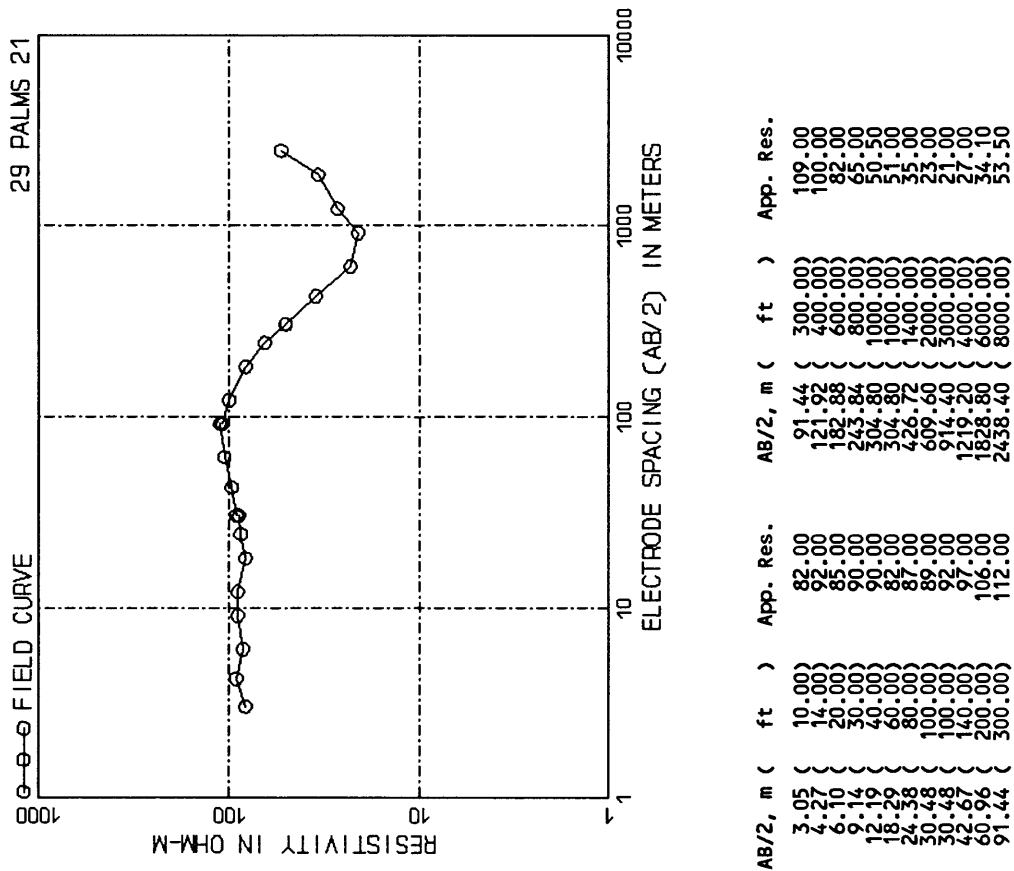
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	111.00	42.67 (	140.00)	76.00
4.27 (	14.00)	74.00	60.96 (	200.00)	74.00
6.10 (	20.00)	44.00	91.44 (	300.00)	78.00
9.14 (	30.00)	43.00	121.92 (	400.00)	70.00
12.19 (	40.00)	45.00	182.88 (	600.00)	74.00
18.29 (	60.00)	56.00	243.84 (	800.00)	77.00
24.38 (	80.00)	64.00	304.80 (	1000.00)	83.00
30.48 (	100.00)	68.00	426.72 (	1400.00)	87.00
		69.00			100.00

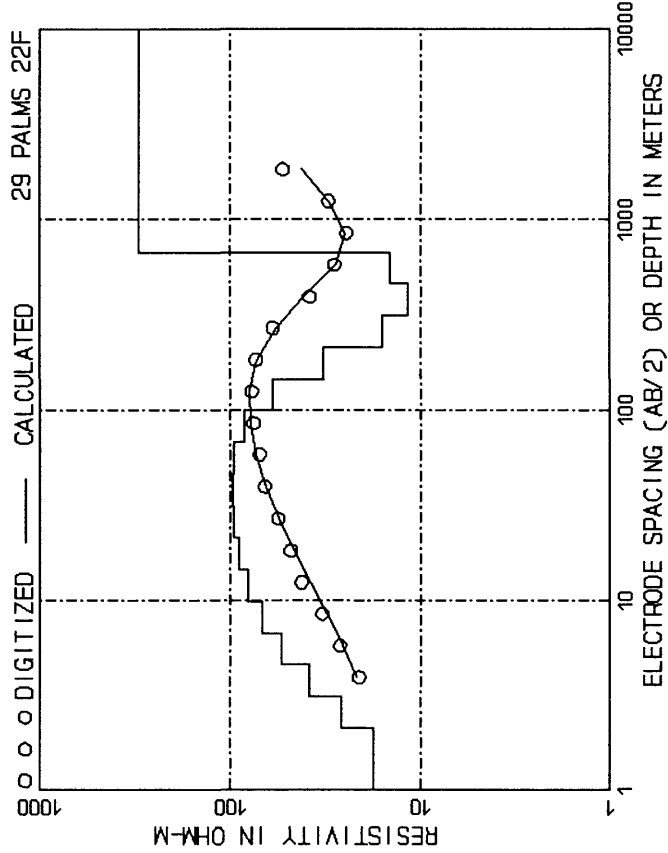


AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	71.00	121.92 (	400.00)	64.00
4.27 (	14.00)	56.00	191.44 (	600.00)	64.00
6.10 (	20.00)	47.00	121.92 (	400.00)	60.00
9.14 (	30.00)	46.00	182.88 (	600.00)	40.00
12.19 (	40.00)	51.00	243.84 (	800.00)	43.00
18.29 (	60.00)	62.00	304.80 (	1000.00)	14.00
24.38 (	80.00)	69.00	426.72 (	1400.00)	8.00
30.48 (	100.00)	74.00	304.80 (	1000.00)	24.00
42.67 (	140.00)	71.00	426.72 (	1400.00)	17.00
60.96 (	200.00)	70.00	609.60 (	2000.00)	13.00
91.44 (	300.00)	72.00	914.40 (	3000.00)	26.00
			1219.20 (	4000.00)	23.00

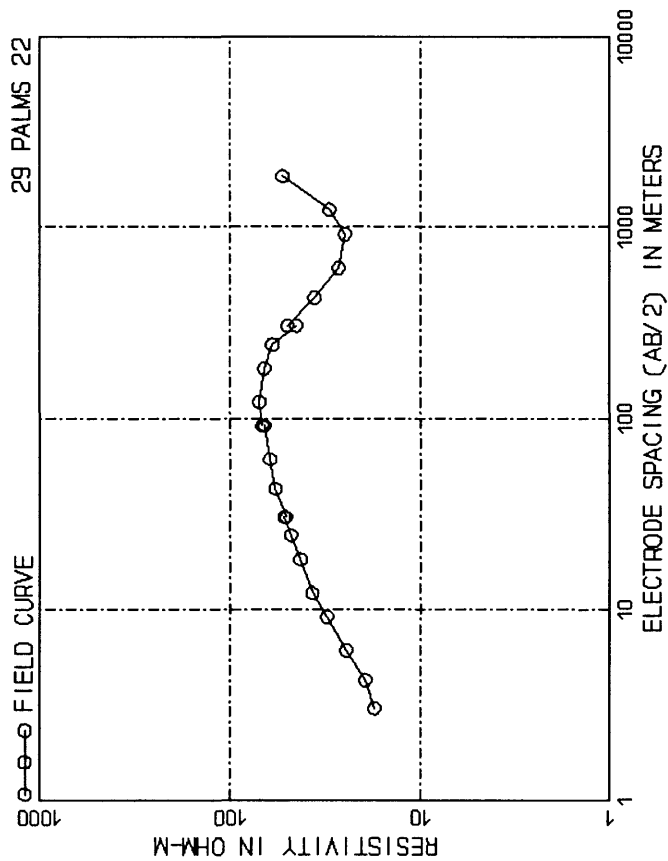


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	61.62	44.85 (	147.16)	84.42
3.06 (	10.03)	36.40	65.84 (	216.00)	66.58
4.49 (	14.72)	29.41	96.84 (	317.04)	43.00
6.58 (	21.60)	38.68	141.84 (	465.36)	24.67
9.66 (	31.70)	58.61	208.19 (	683.05)	12.50
14.18 (	46.54)	77.68	305.59 (	1002.58)	6.74
20.82 (	68.31)	88.20	448.54 (	1471.59)	6.85
30.56 (	100.26)	90.56	99999.00 (	99999.00)	80.00

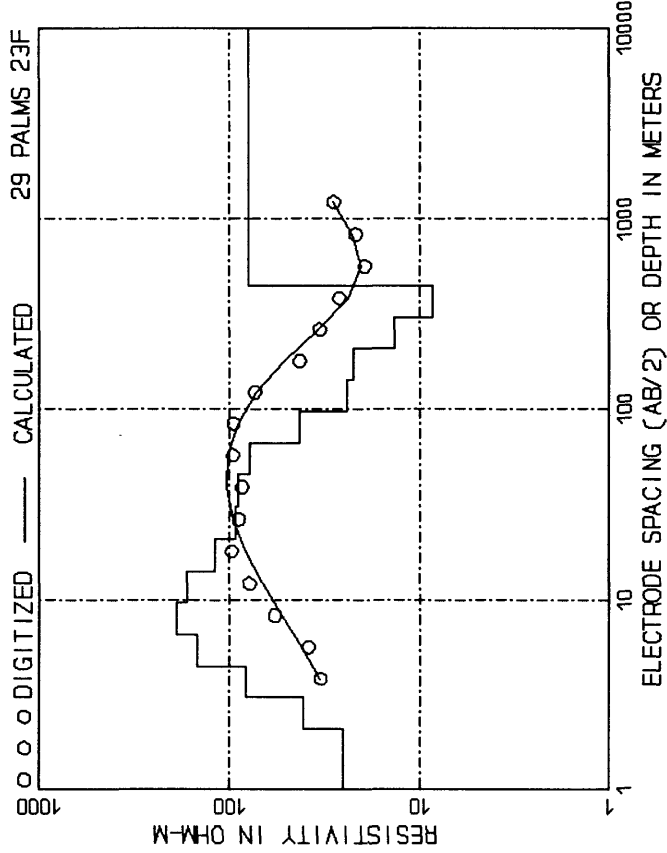




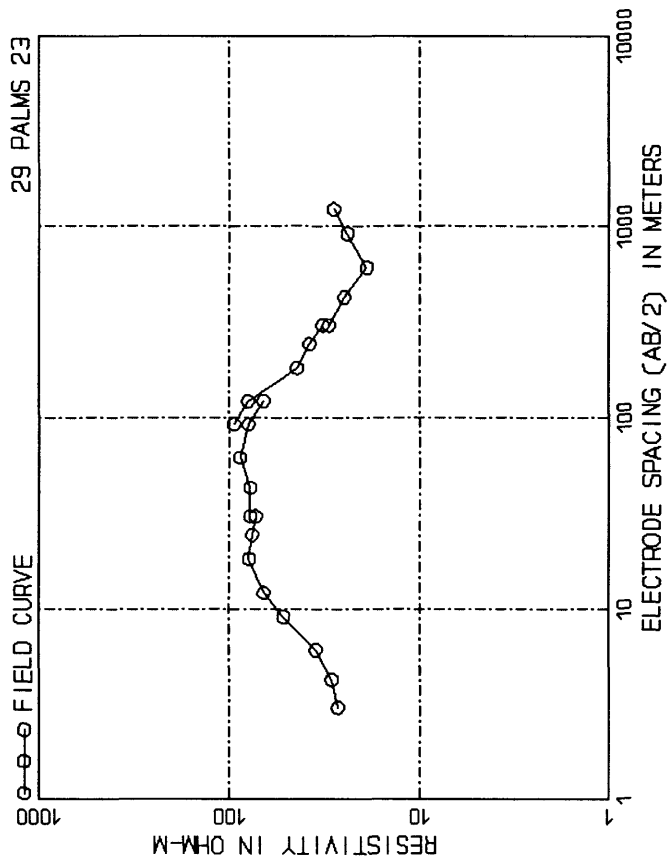
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	17.78	45.84 (	150.39)	98.04
3.12 (	10.25)	26.14	67.28 (	220.71)	95.97
4.58 (	15.04)	38.62	98.76 (	324.00)	84.80
6.73 (	22.07)	53.65	144.95 (	475.57)	60.59
9.88 (	32.40)	68.57	212.76 (	698.04)	32.61
14.50 (	47.56)	81.37	312.29 (	1024.58)	15.88
21.28 (	69.80)	90.72	458.38 (	1503.88)	11.70
31.23 (	102.46)	96.05	672.81 (	2207.39)	14.38
			99999.00 (	99999.00)	300.00



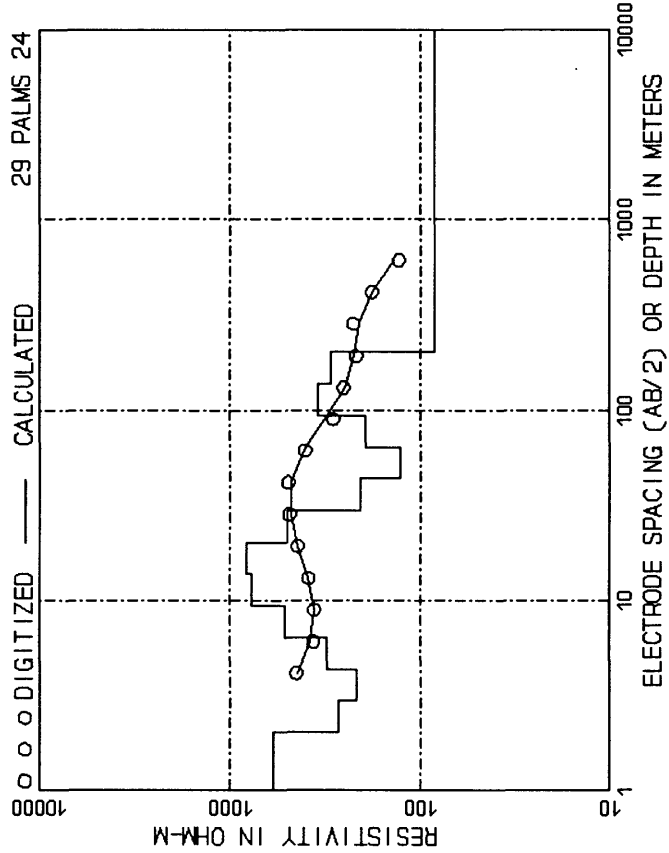
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	17.50	91.44 (	300.00)	66.00
4.27 (	14.00)	19.50	91.44 (	300.00)	68.50
6.10 (	20.00)	24.50	121.92 (	400.00)	70.00
9.14 (	30.00)	31.00	182.88 (	600.00)	66.00
12.19 (	40.00)	37.00	243.84 (	800.00)	60.00
18.29 (	60.00)	42.70	304.80 (	1000.00)	45.00
24.38 (	80.00)	48.00	426.72 (	1400.00)	36.00
30.48 (	100.00)	51.00	609.60 (	2000.00)	27.00
42.67 (	140.00)	58.00	914.40 (	3000.00)	25.00
60.96 (	200.00)	62.00	1219.20 (	4000.00)	30.00
			1828.80 (	6000.00)	53.00



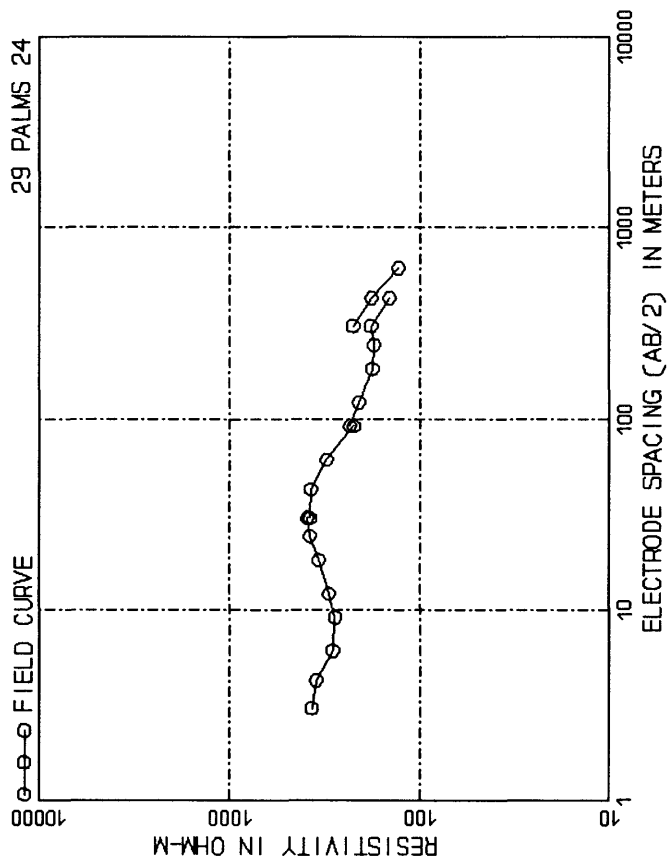
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	25.46	44.85 (	147.16)	90.01
3.06 (	10.03)	40.64	65.84 (	216.00)	78.17
4.49 (	14.72)	81.98	96.84 (	317.04)	42.57
6.58 (	21.60)	147.29	141.84 (	465.36)	24.21
9.66 (	31.70)	188.87	208.19 (	683.05)	22.50
14.18 (	46.54)	167.10	305.59 (	1002.58)	13.62
20.82 (	68.31)	119.02	448.54 (	1471.59)	8.50
30.56 (	100.26)	92.42	99999.00 (	99999.00)	80.00



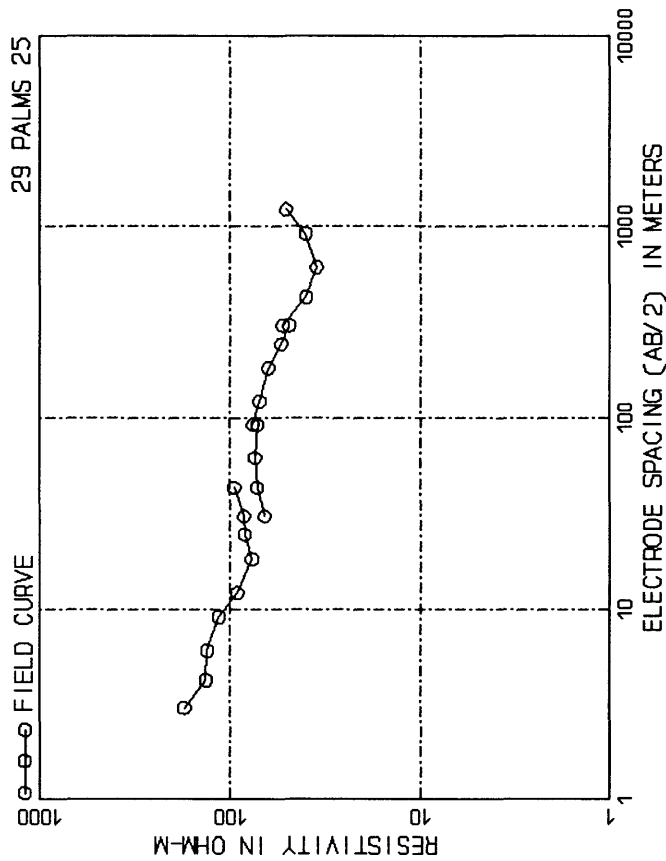
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	27.00	91.44 (	300.00)	80.00
4.27 (	14.00)	29.00	121.92 (	400.00)	66.00
6.10 (	20.00)	35.00	191.44 (	600.00)	95.00
9.14 (	30.00)	52.00	121.92 (	400.00)	80.00
12.19 (	40.00)	66.00	182.88 (	600.00)	44.00
18.29 (	60.00)	79.00	243.84 (	800.00)	38.00
24.38 (	80.00)	76.00	304.80 (	1000.00)	32.50
30.48 (	100.00)	73.00	304.80 (	1000.00)	30.00
30.48 (	100.00)	78.00	426.72 (	1400.00)	25.00
42.67 (	140.00)	78.00	609.60 (	2000.00)	19.00
60.96 (	200.00)	88.00	914.40 (	3000.00)	24.00
			1219.20 (	4000.00)	28.40



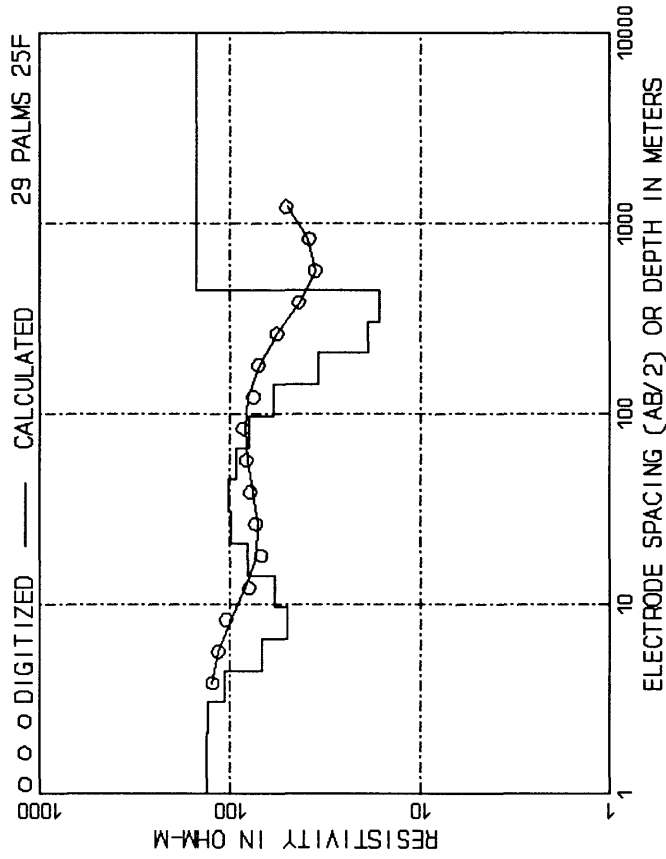
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.02 (	6.62)	593.77	29.63 (	97.20)	500.81
2.96 (	9.72)	267.30	43.49 (	142.6)	208.47
4.35 (	14.27)	218.17	63.83 (	209.4)	127.49
6.38 (	20.94)	307.41	93.69 (	307.37)	194.75
9.37 (	30.74)	513.57	137.51 (	451.16)	344.74
13.75 (	45.12)	775.35	201.84 (	662.22)	296.12
20.18 (	66.22)	816.60	99999.00 (	99999.00)	83.59



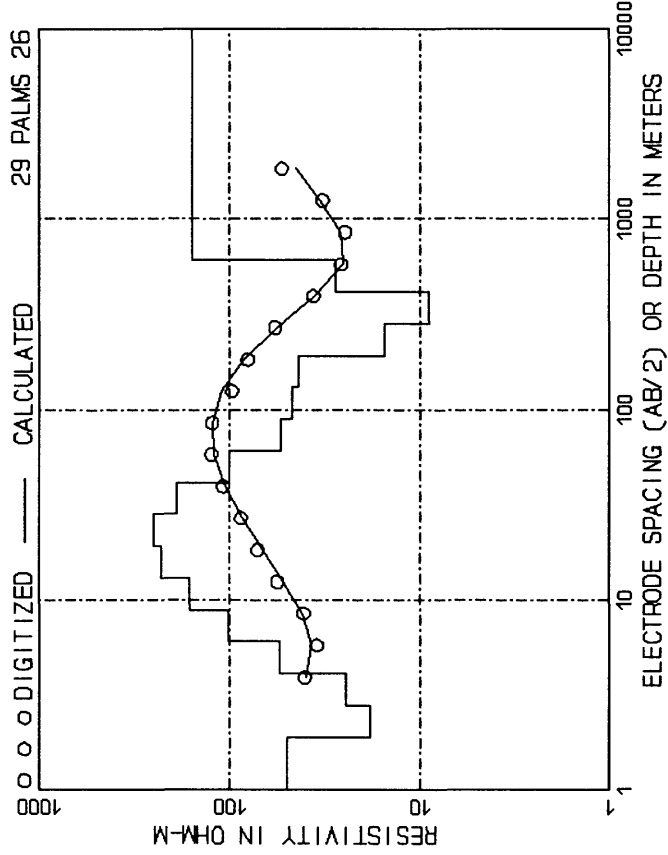
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	370.00	60.96 (	200.00)	310.00
4.27 (	14.00)	350.00	91.44 (	300.00)	223.00
6.10 (	20.00)	288.00	91.44 (	300.00)	232.00
9.14 (	30.00)	280.00	121.92 (	400.00)	210.00
12.19 (	40.00)	300.00	182.88 (	600.00)	178.00
18.29 (	60.00)	340.00	243.84 (	800.00)	175.00
24.38 (	80.00)	380.00	304.80 (	1000.00)	181.00
30.48 (	100.00)	390.00	426.72 (	1400.00)	145.00
42.67 (	140.00)	377.00	304.80 (	1000.00)	225.00
		375.00	426.72 (	1400.00)	180.00
			609.60 (	2000.00)	130.00



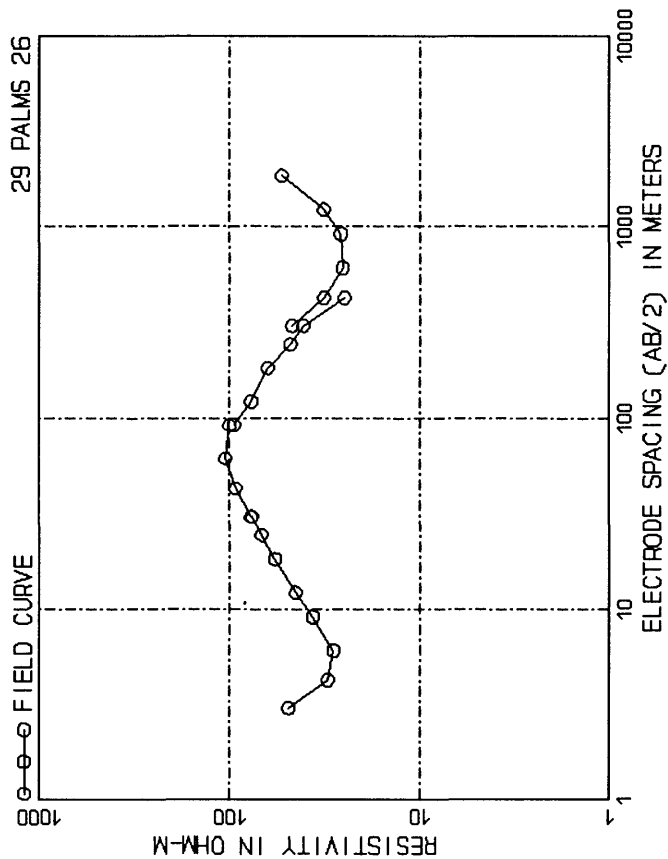
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	174.00	60.96 (	200.00)	74.00
4.27 (	14.00)	134.00	91.44 (	300.00)	72.00
6.10 (	20.00)	132.00	91.44 (	300.00)	76.00
9.14 (	30.00)	115.00	121.92 (	400.00)	70.00
12.19 (	40.00)	92.00	182.88 (	600.00)	63.00
18.29 (	60.00)	77.00	243.84 (	800.00)	54.00
24.38 (	80.00)	84.00	304.80 (	1000.00)	49.00
30.48 (	100.00)	85.00	304.80 (	1000.00)	53.00
42.67 (	140.00)	95.00	426.72 (	1400.00)	40.00
30.48 (	100.00)	66.00	609.60 (	2000.00)	35.00
42.67 (	140.00)	72.00	914.40 (	3000.00)	40.00
			1219.20 (	4000.00)	51.00



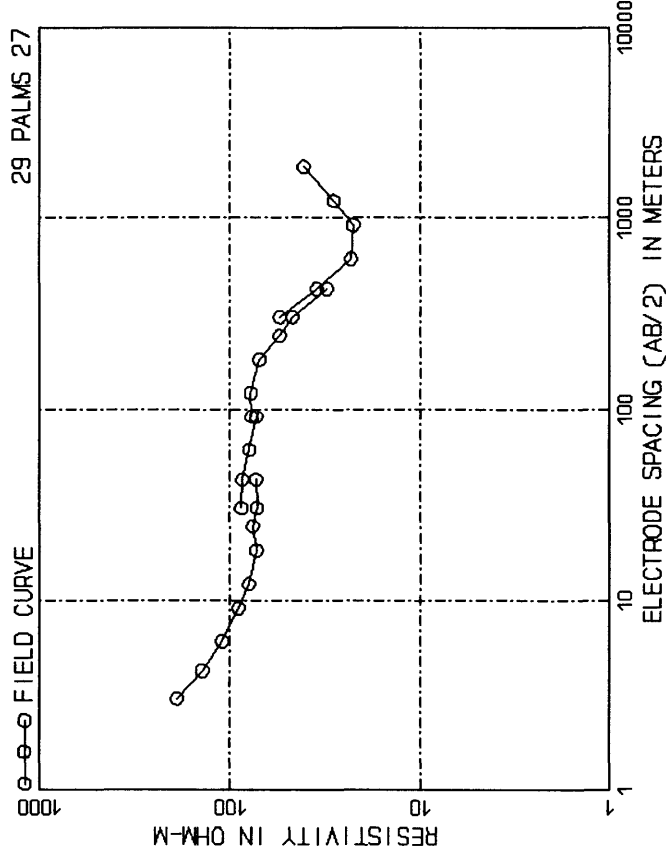
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	133.66	44.85 (	147.16)	101.94
3.06 (	10.03)	131.61	65.84 (	216.00)	93.40
4.49 (	14.72)	106.57	96.84 (	317.04)	79.40
6.58 (	21.60)	68.22	141.84 (	465.36)	58.98
9.66 (	31.70)	50.24	208.19 (	683.05)	34.24
14.18 (	46.54)	58.70	305.59 (	1002.58)	18.72
20.82 (	68.31)	80.50	448.54 (	1471.59)	16.41
30.56 (	100.26)	98.24	99999.00 (	99999.00)	150.00



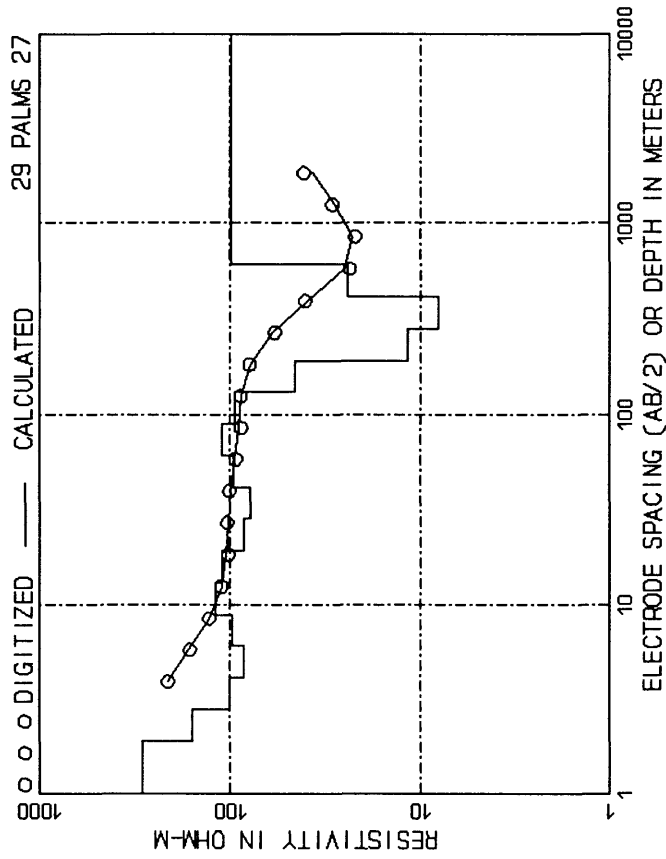
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.91 (	6.28)	50.10	41.25 (	135.35)	188.37
2.81 (	9.22)	18.25	60.55 (	198.60)	100.10
4.13 (	13.53)	24.40	88.88 (	291.60)	54.37
6.06 (	19.87)	54.90	130.46 (	428.01)	46.83
8.89 (	29.16)	102.30	191.49 (	628.23)	43.27
13.05 (	42.80)	163.00	281.06 (	922.12)	15.36
19.15 (	62.82)	229.30	412.54 (	1353.49)	8.95
28.11 (	92.21)	251.97	605.53 (	1986.65)	27.65
			99999.00 (	99999.00)	156.92



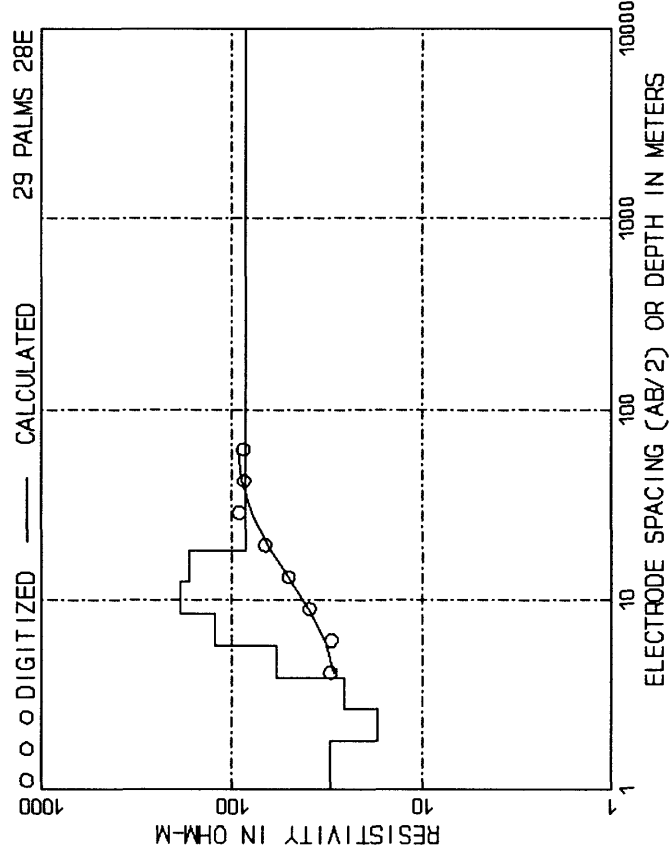
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	49.00	91.44 (	300.00)	95.00
4.27 (	14.00)	30.50	121.92 (	400.00)	77.00
6.10 (	20.00)	28.50	182.88 (	600.00)	63.00
9.14 (	30.00)	36.50	243.84 (	800.00)	48.00
12.19 (	40.00)	45.00	304.80 (	1000.00)	41.00
18.29 (	60.00)	58.00	426.72 (	1400.00)	25.00
24.38 (	80.00)	68.00	304.80 (	1000.00)	47.00
30.48 (	100.00)	76.00	426.72 (	1400.00)	32.00
42.67 (	140.00)	93.00	609.60 (	2000.00)	25.50
60.96 (	200.00)	105.00	914.40 (	3000.00)	28.00
91.44 (	300.00)	100.00	1219.20 (	4000.00)	32.00
			1828.80 (	6000.00)	53.30



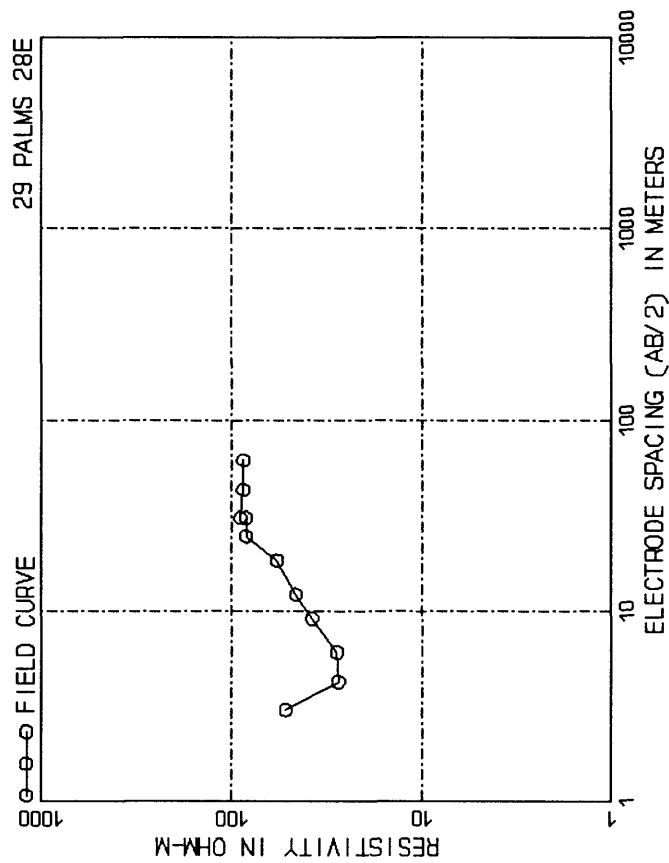
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	190.00	91.44 (	300.00)	73.00
4.27 (	14.00)	140.00	91.44 (	300.00)	73.00
6.10 (	20.00)	110.00	121.92 (	400.00)	78.00
9.14 (	30.00)	90.00	182.88 (	600.00)	70.00
12.19 (	40.00)	80.00	243.84 (	800.00)	55.00
18.29 (	60.00)	73.00	304.80 (	1000.00)	47.00
24.38 (	80.00)	76.00	426.72 (	1400.00)	31.00
30.48 (	100.00)	72.00	304.80 (	1000.00)	55.00
42.67 (	140.00)	73.00	426.72 (	1400.00)	35.00
30.48 (	100.00)	87.00	609.60 (	2000.00)	23.00
42.67 (	140.00)	86.00	914.40 (	3000.00)	22.50
60.96 (	200.00)	79.00	1219.20 (	4000.00)	28.50
			1828.80 (	6000.00)	41.00



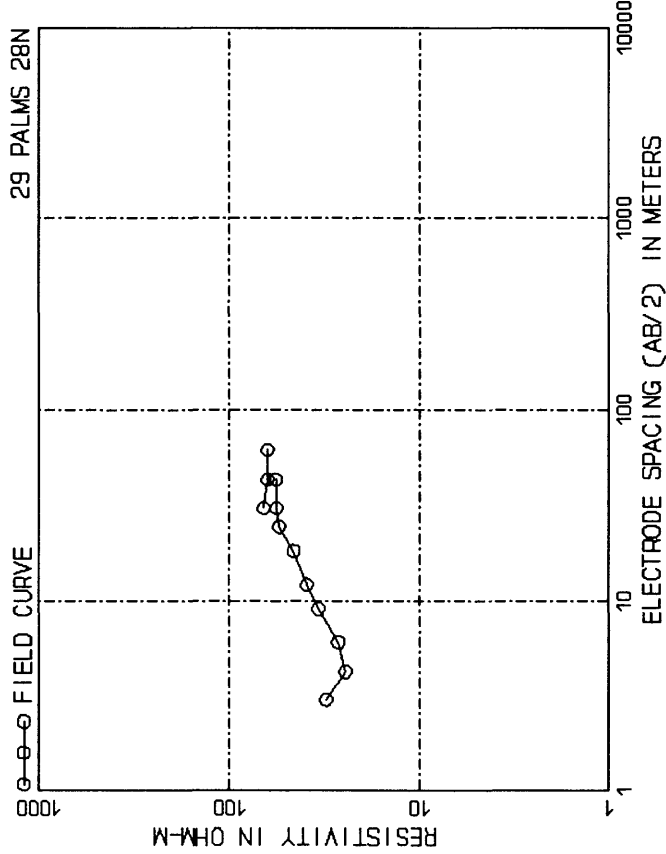
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.91 (	6.28)	287.98	41.25 (	135.35)	78.03
2.81 (	9.22)	157.96	60.55 (	198.63)	95.37
4.13 (	13.53)	100.21	88.88 (	291.60)	109.86
6.06 (	19.87)	85.41	130.46 (	428.01)	94.00
8.89 (	29.16)	97.50	191.49 (	628.23)	45.55
13.05 (	42.80)	118.82	281.06 (	922.12)	11.65
19.15 (	62.82)	110.81	412.54 (	1353.49)	8.04
28.11 (	92.21)	84.19	605.53 (	1986.65)	24.24
			9999.00 (	9999.00)	98.77



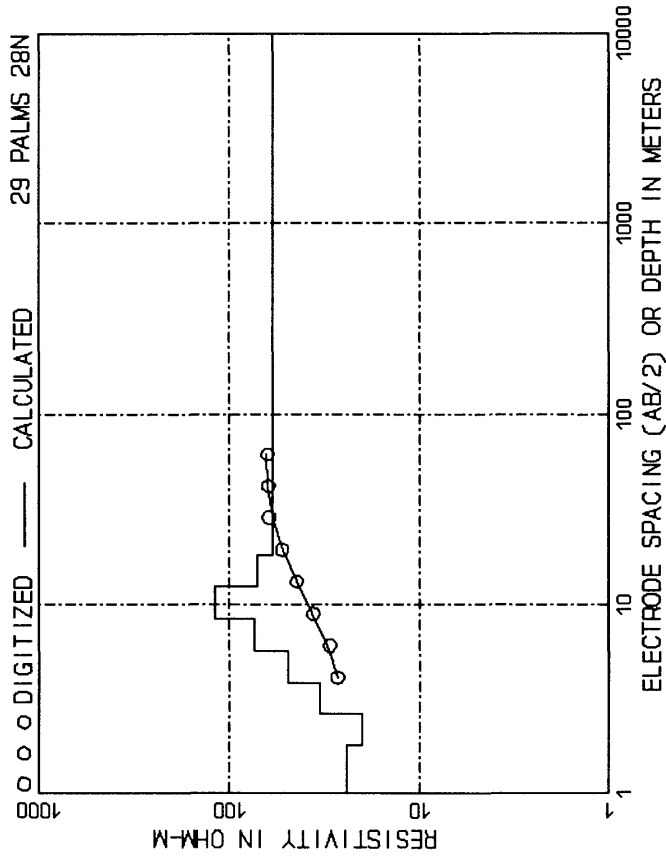
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.82 (	5.96)	30.36	8.43 (	27.66)	123.79
2.67 (	8.75)	17.31	12.38 (	40.60)	186.73
3.91 (	12.84)	25.71	18.17 (	59.60)	168.78
5.74 (	18.85)	58.19	99999.00 (	99999.00)	84.41



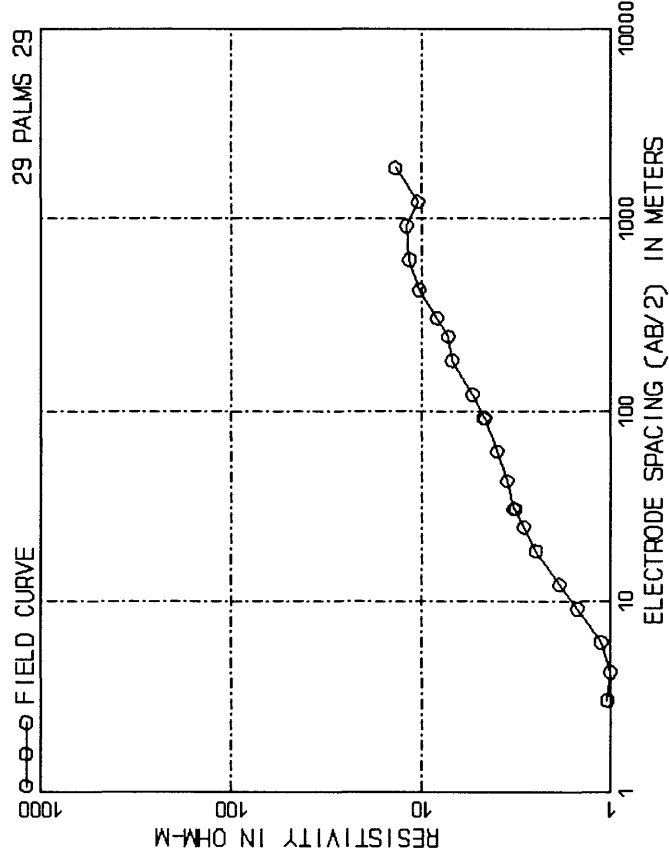
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	52.00	18.29 (	60.00)	58.00
4.27 (	14.00)	27.50	24.38 (	80.00)	87.00
6.10 (	20.00)	28.00	30.48 (	100.00)	84.00
9.14 (	30.00)	58.00	30.48 (	100.00)	90.00
12.19 (	40.00)	46.00	42.67 (	140.00)	87.00
			60.96 (	200.00)	87.00



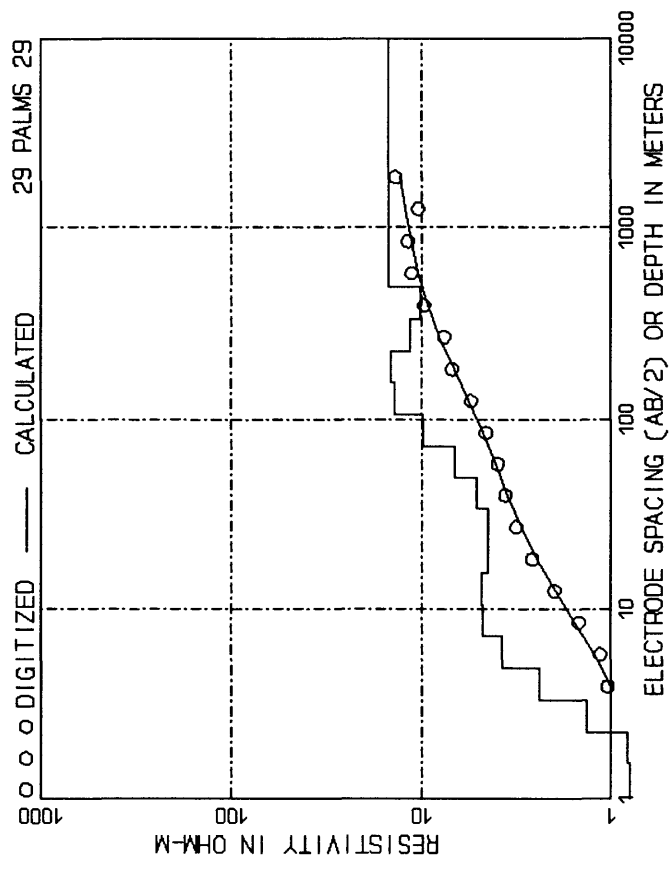
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	31.00	24.38 (	80.00)	55.00
4.27 (	14.00)	24.50	30.48 (	100.00)	52.50
6.10 (	20.00)	26.80	42.67 (	140.00)	57.00
9.14 (	30.00)	34.00	30.48 (	100.00)	66.00
12.19 (	40.00)	39.00	42.67 (	140.00)	63.00
18.29 (	60.00)	46.00	60.96 (	200.00)	63.00



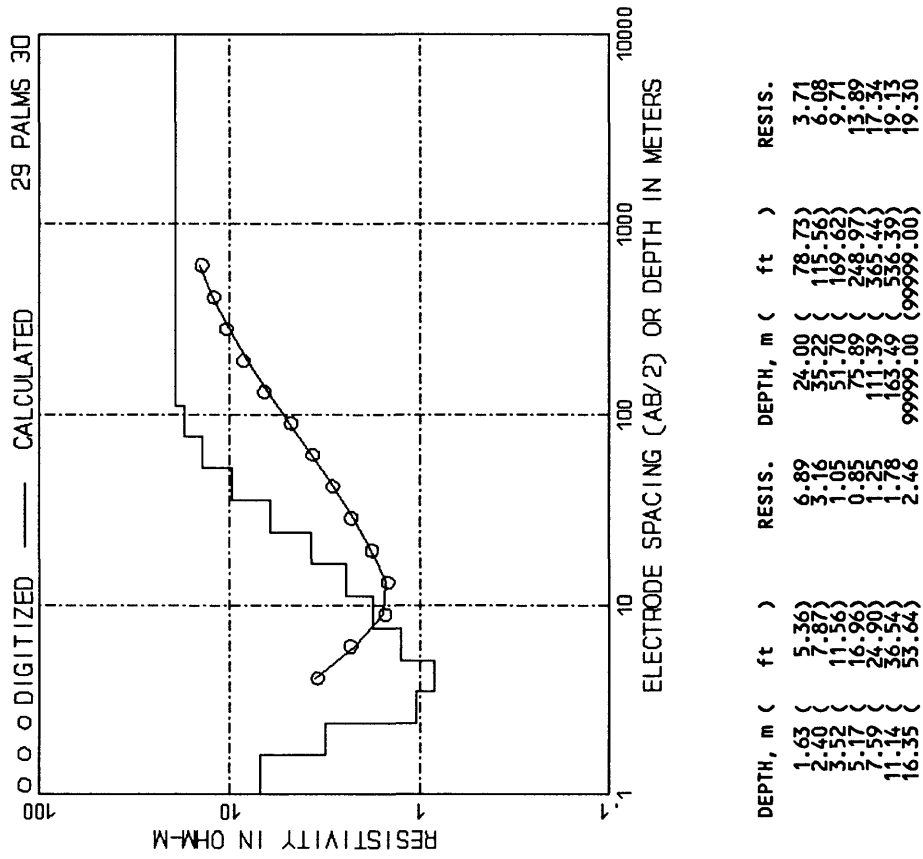
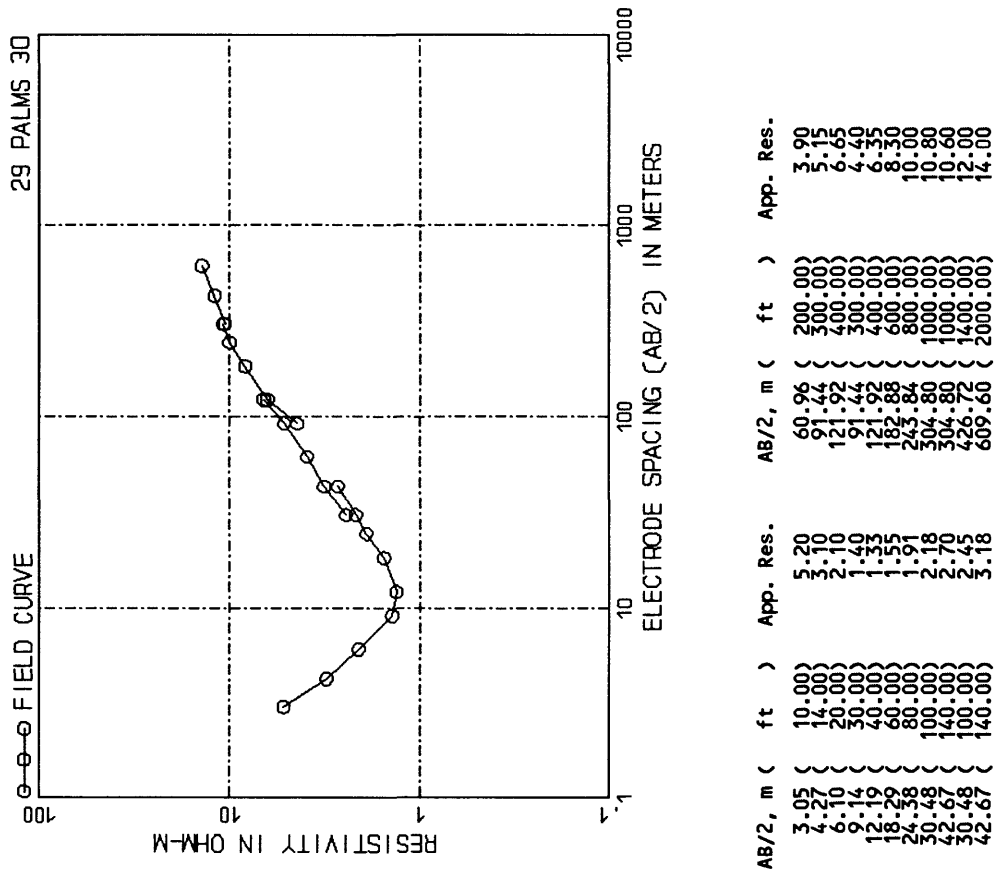
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.82 (	5.96)	24.33	8.43 (	27.66)	73.29
2.67 (	8.75)	20.17	12.38 (	40.60)	119.69
5.91 (	12.84)	53.57	18.17 (	59.60)	71.22
5.74 (	18.85)	49.61	99999.00 (	99999.00)	59.27

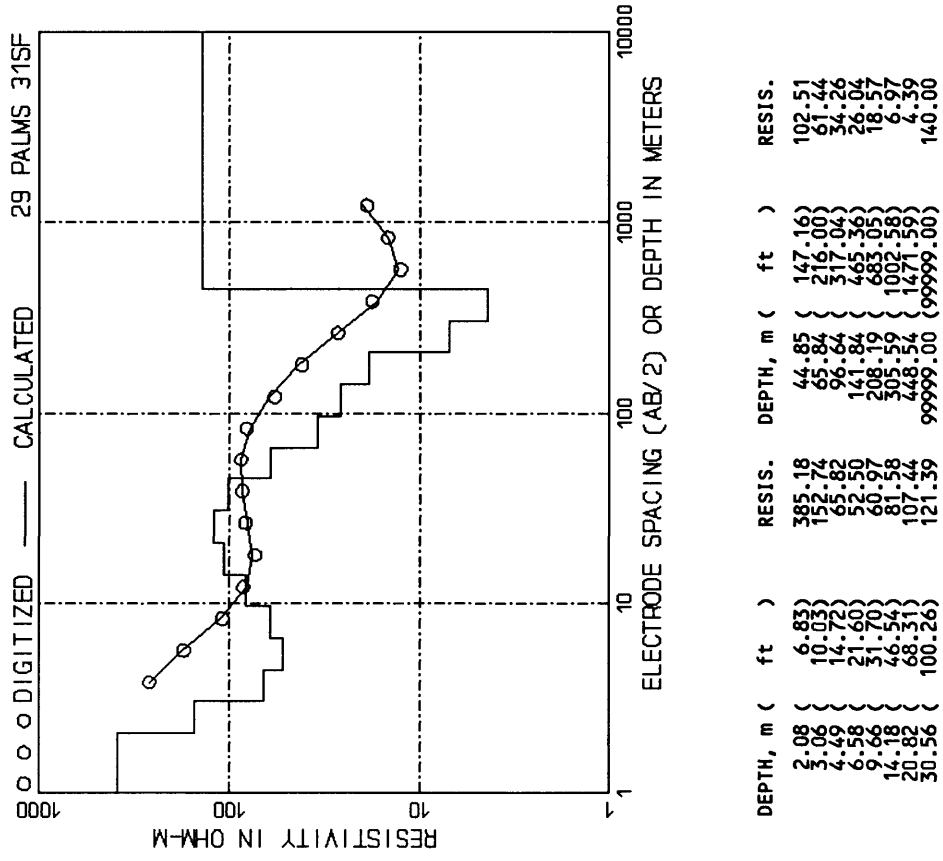
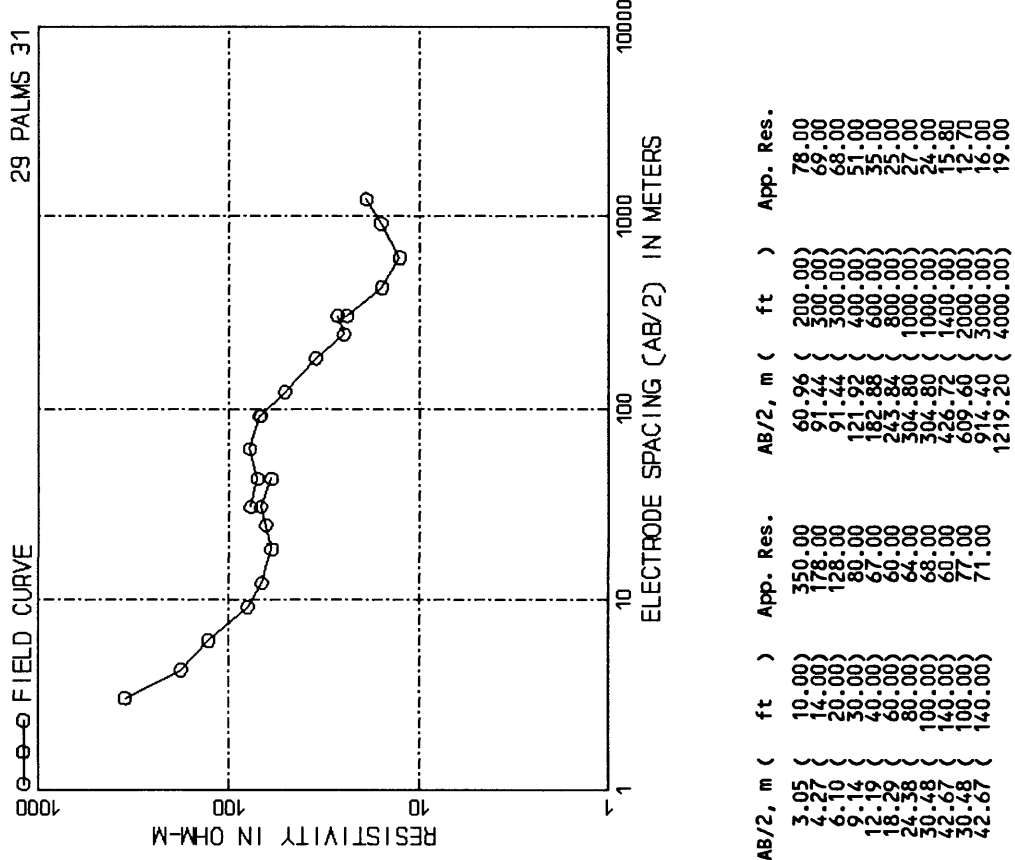


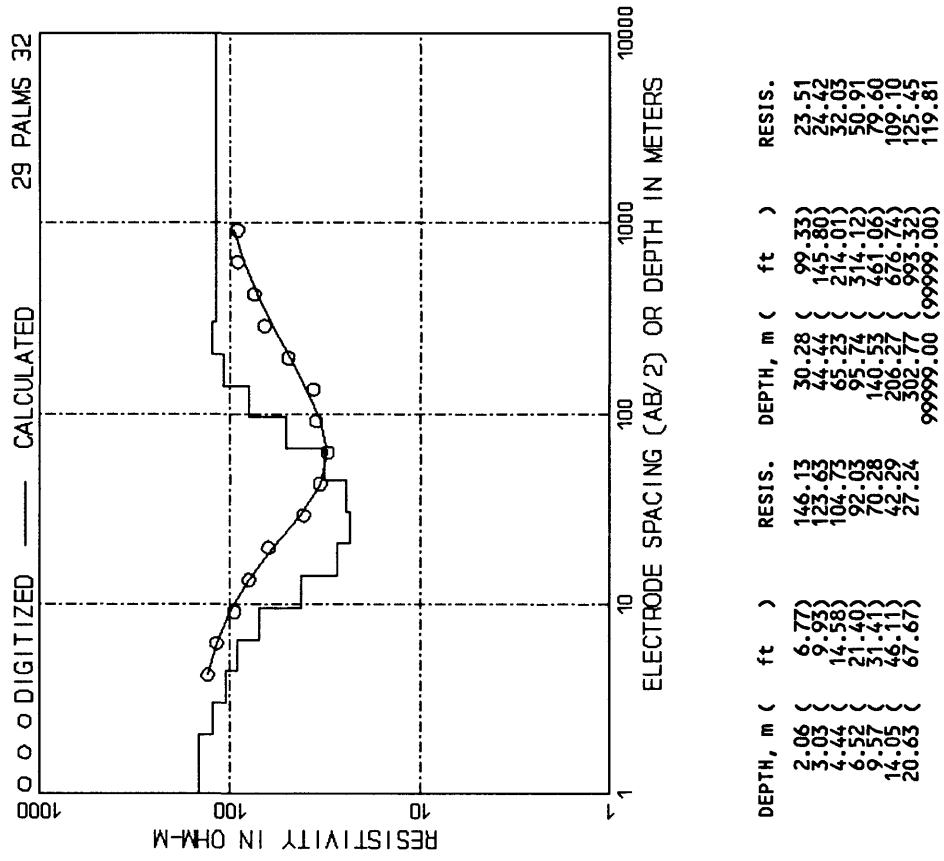
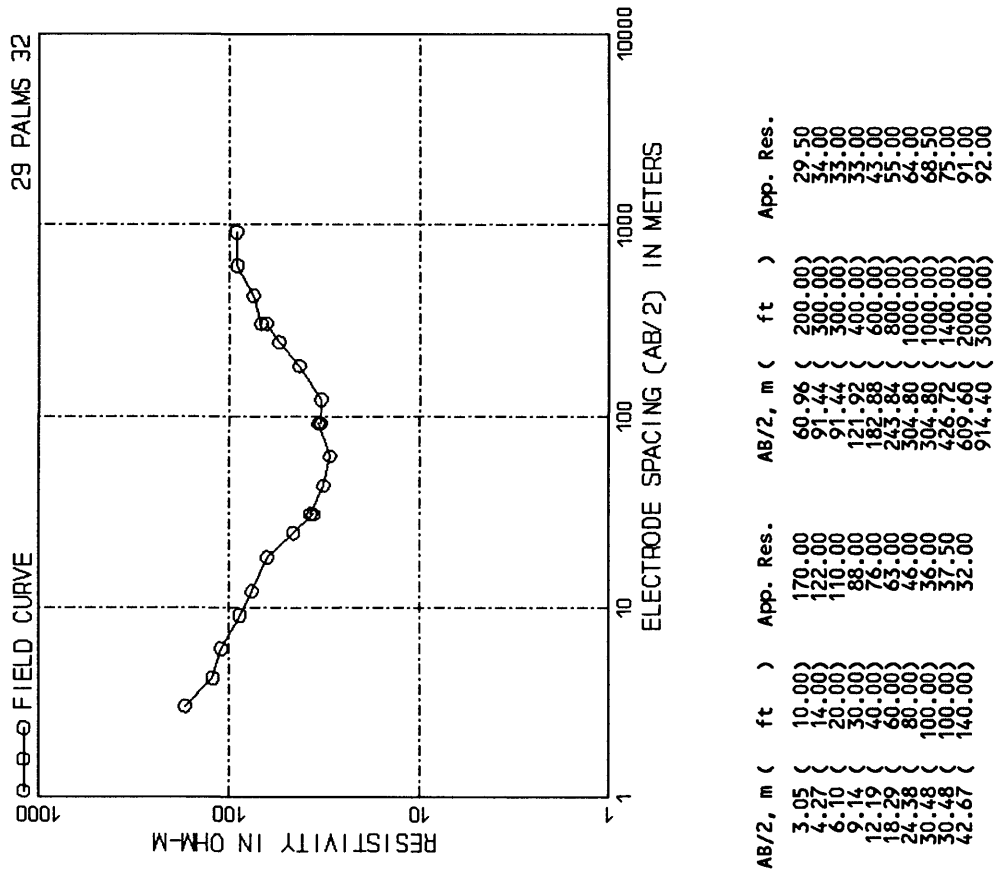
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	1.05	91.44 (	300.00)	4.60
4.27 (	14.00)	1.01	91.44 (	300.00)	4.70
6.10 (	20.00)	1.13	121.92 (	400.00)	5.40
9.14 (	30.00)	1.51	182.88 (	600.00)	9.90
12.19 (	40.00)	1.88	243.84 (	800.00)	7.20
18.29 (	60.00)	2.50	304.80 (	1000.00)	8.30
24.38 (	80.00)	3.20	426.72 (	1400.00)	10.30
30.48 (	100.00)	3.28	609.60 (	2000.00)	11.60
42.67 (	140.00)	3.55	914.40 (	3000.00)	12.00
60.96 (	200.00)	4.00	1219.20 (	4000.00)	10.50
			1828.80 (	6000.00)	13.70

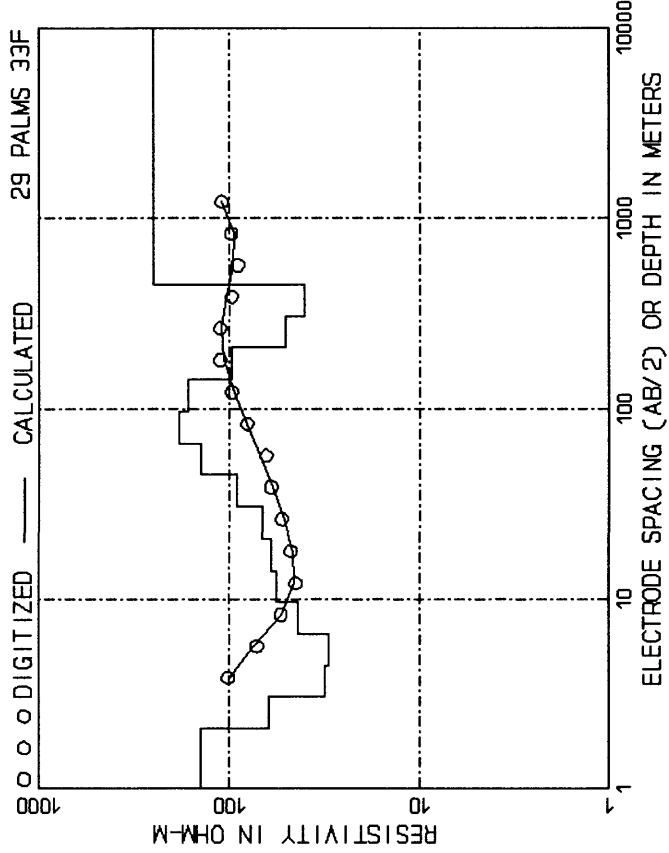


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.55 (	5.09)	0.79	33.42 (	109.63)	4.46
2.28 (	7.47)	0.82	49.05 (	160.93)	5.12
3.34 (	10.96)	1.55	71.99 (	236.20)	6.69
4.90 (	16.09)	2.41	105.67 (	346.69)	9.77
7.20 (	23.62)	3.77	155.10 (	508.87)	13.75
10.57 (	34.69)	4.73	227.66 (	746.92)	14.59
15.51 (	50.89)	4.82	334.16 (	1096.32)	11.50
22.77 (	74.69)	4.48	490.48 (	1609.19)	10.14
			99999.00 (	99999.00)	14.93

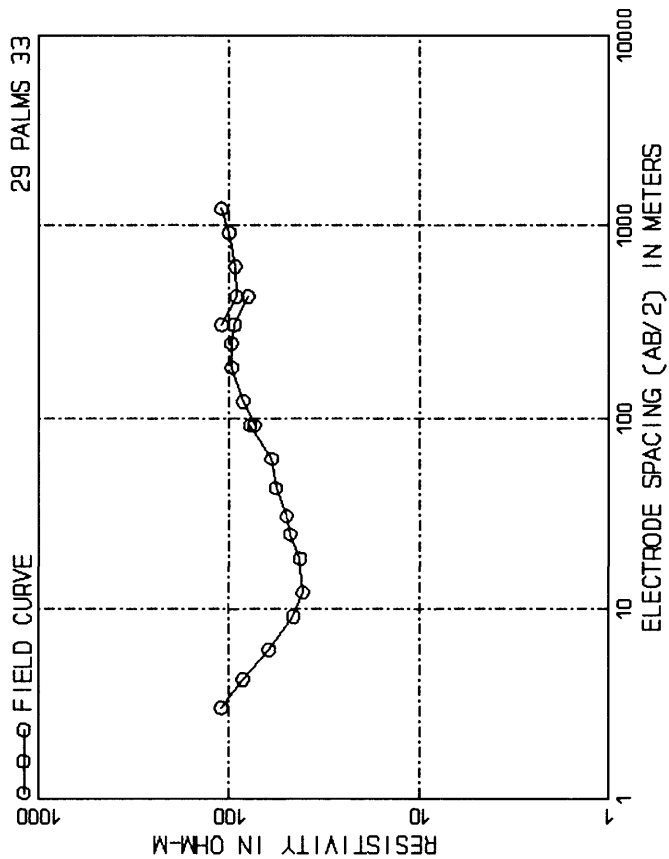




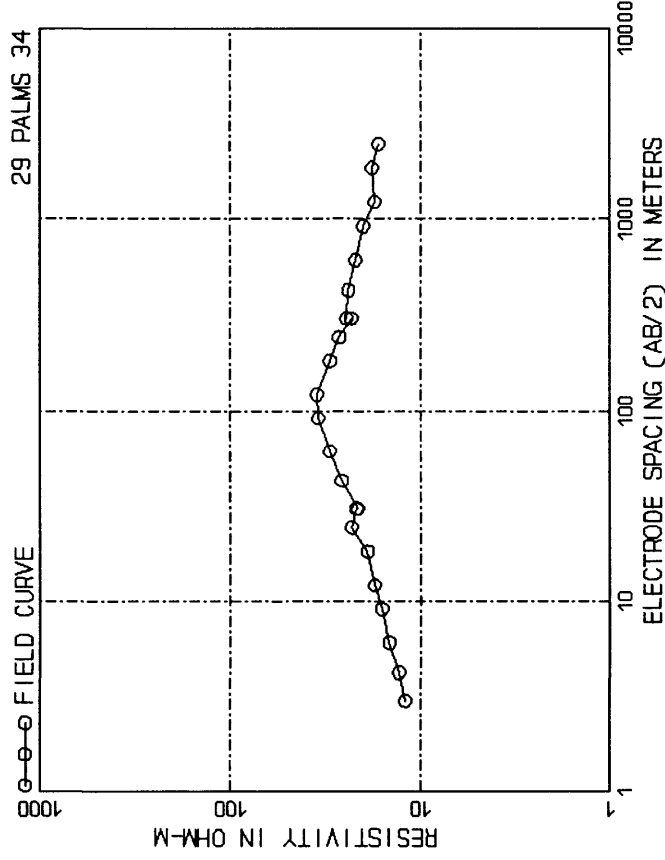




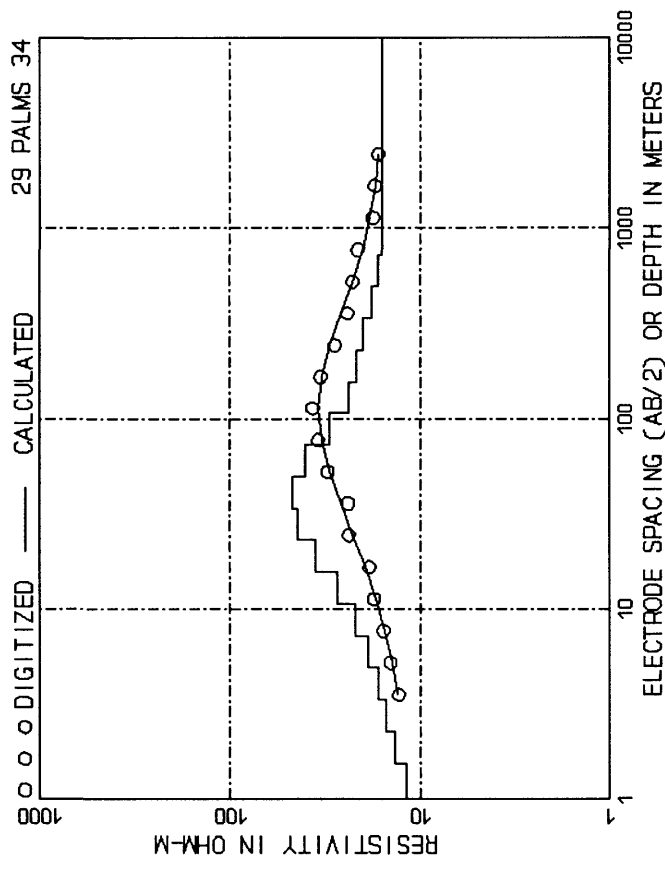
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	140.33	44.85 (	147.16)	92.17
3.06 (	10.03)	62.08	65.84 (	216.00)	141.29
4.49 (	14.72)	51.43	96.84 (	317.04)	182.72
6.58 (	21.60)	30.07	141.84 (	465.36)	163.80
9.66 (	31.70)	43.49	208.19 (	683.05)	97.50
14.18 (	46.54)	56.71	305.59 (	1002.58)	50.50
20.82 (	68.31)	60.63	448.54 (	1471.59)	40.04
30.56 (	100.26)	66.69	99999.00 (	99999.00)	250.00



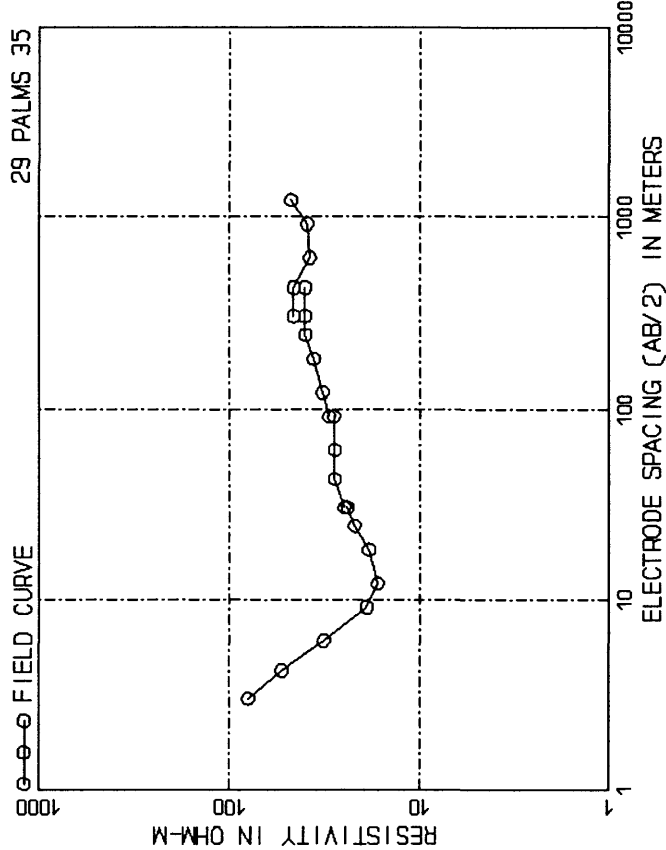
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	110.00	91.44 (	300.00)	78.00
4.27 (	14.00)	85.00	91.44 (	300.00)	78.00
6.10 (	20.00)	62.00	121.92 (	400.00)	85.00
9.14 (	30.00)	46.00	182.88 (	600.00)	97.00
12.19 (	40.00)	41.00	243.84 (	800.00)	98.00
18.29 (	60.00)	42.50	304.80 (	1000.00)	94.00
24.38 (	80.00)	48.00	426.72 (	1400.00)	80.00
30.48 (	100.00)	50.00	304.80 (	1000.00)	110.00
42.67 (	140.00)	57.00	426.72 (	1400.00)	92.00
60.96 (	200.00)	60.00	609.60 (	2000.00)	93.00
			914.40 (	3000.00)	100.00
			1219.20 (	4000.00)	110.00



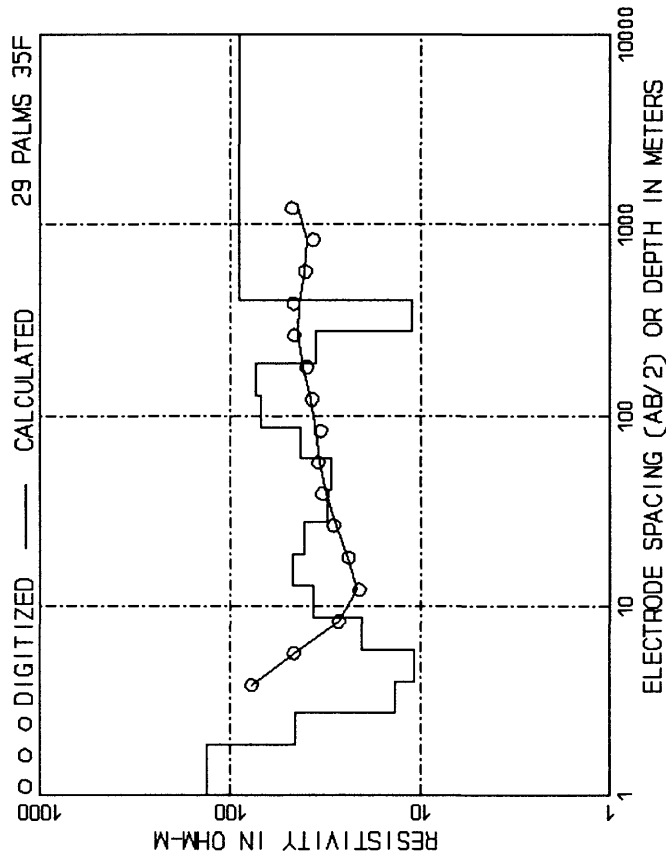
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	12.00	91.44 (	300.00)	34.50
4.27 (	14.00)	13.00	121.92 (	400.00)	35.00
6.10 (	20.00)	14.60	182.88 (	600.00)	29.90
9.14 (	30.00)	16.00	243.84 (	800.00)	26.80
12.19 (	40.00)	17.50	304.80 (	1000.00)	23.20
18.29 (	60.00)	19.00	304.80 (	1000.00)	24.50
24.38 (	80.00)	23.00	426.72 (	1400.00)	22.00
30.48 (	100.00)	21.80	609.60 (	2000.00)	22.00
30.48 (	100.00)	21.40	914.40 (	3000.00)	20.00
42.67 (	140.00)	26.00	1219.20 (	4000.00)	17.50
60.96 (	200.00)	30.00	1828.80 (	6000.00)	18.00
91.44 (	300.00)	34.50	2438.40 (	8000.00)	16.65



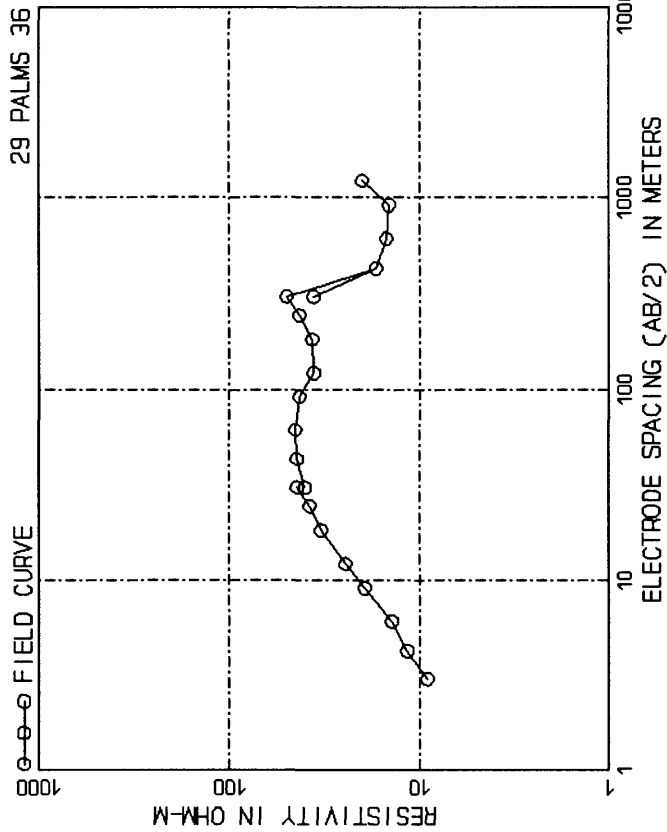
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.57 (	5.14)	11.87	49.51 (	162.42)	46.71
2.30 (	7.54)	13.57	72.66 (	238.40)	40.29
3.37 (	11.07)	15.12	106.66 (	349.92)	30.20
4.95 (	16.24)	16.66	156.55 (	513.61)	23.74
7.27 (	23.84)	18.79	229.78 (	753.88)	21.64
10.67 (	34.99)	22.06	337.27 (	1106.54)	20.15
15.65 (	51.36)	27.52	495.05 (	1624.19)	18.03
22.98 (	75.39)	35.80	726.64 (	2383.98)	16.62
35.73 (	110.65)	44.18	99999.00 (	99999.00)	16.01



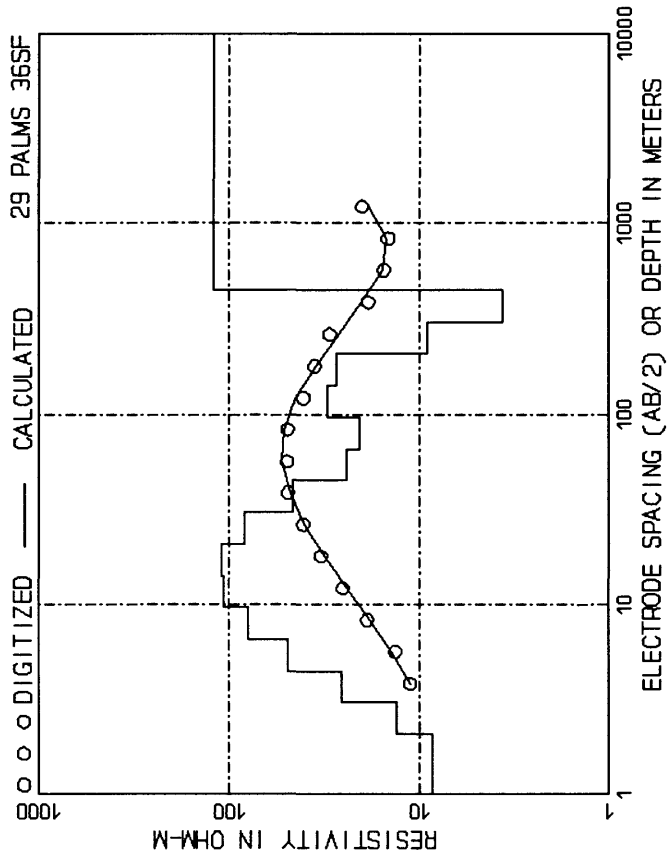
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	80.00	91.44 (	300.00)	28.30
4.27 (	14.00)	53.00	91.44 (	300.00)	30.00
6.10 (	20.00)	32.00	121.92 (	400.00)	32.50
9.14 (	30.00)	19.00	182.88 (	600.00)	36.00
12.19 (	40.00)	16.60	243.84 (	800.00)	40.00
18.29 (	60.00)	18.50	304.80 (	1000.00)	40.00
24.38 (	80.00)	22.00	426.72 (	1400.00)	40.00
30.48 (	100.00)	24.00	304.80 (	1000.00)	46.00
30.48 (	100.00)	25.00	426.72 (	1400.00)	46.00
42.67 (	140.00)	28.00	609.60 (	2000.00)	38.00
60.96 (	200.00)	28.00	914.40 (	3000.00)	39.00
			1219.20 (	4000.00)	47.50



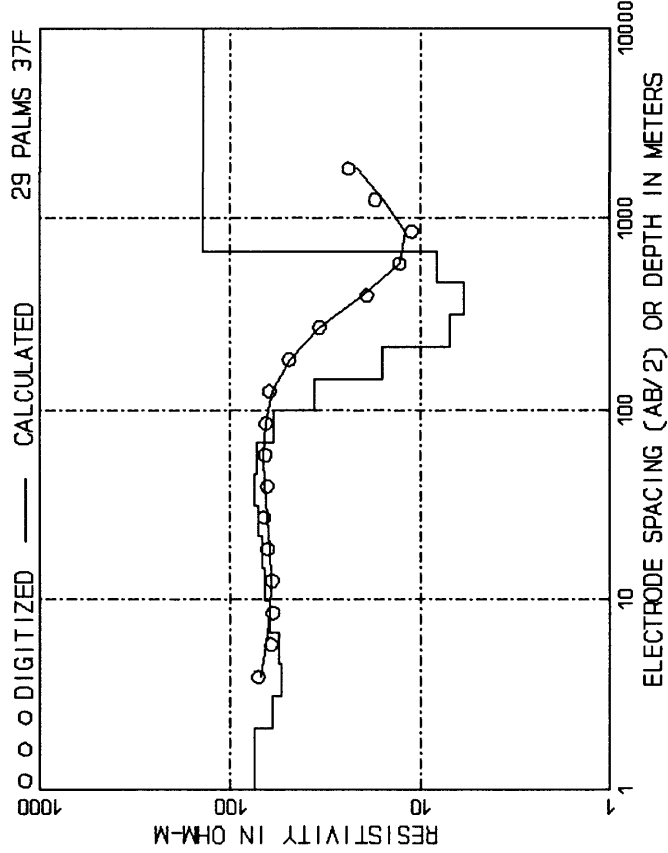
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.87 (	6.15)	133.76	40.37 (	132.46)	30.81
2.75 (	9.02)	125.72	59.35 (	194.40)	29.45
4.04 (	13.24)	13.64	86.97 (	285.34)	42.65
5.93 (	19.44)	10.73	127.66 (	418.82)	69.30
8.70 (	28.53)	20.49	187.37 (	614.75)	73.79
12.77 (	41.88)	36.85	275.03 (	902.33)	35.58
18.74 (	61.47)	46.70	403.69 (	1324.43)	11.05
27.50 (	90.23)	40.92	99999.00 (	99999.00)	90.00



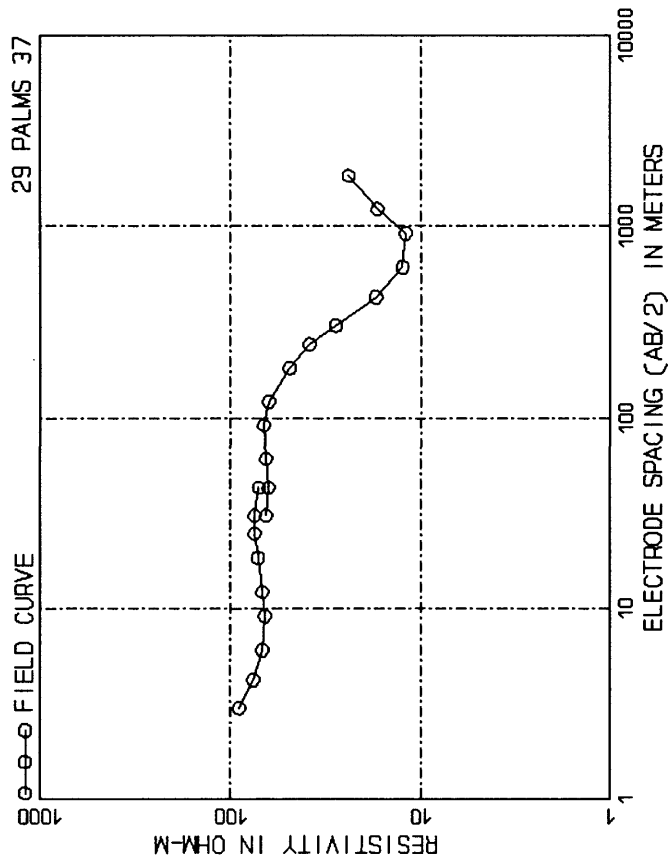
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	9.10	91.44 (	300.00)	43.00
4.27 (	14.00)	11.60	121.92 (	400.00)	36.00
6.10 (	20.00)	14.00	182.88 (	600.00)	36.80
9.14 (	30.00)	19.50	243.84 (	800.00)	43.00
12.19 (	40.00)	24.50	304.80 (	1000.00)	50.00
18.29 (	60.00)	33.00	426.72 (	1400.00)	17.00
24.38 (	80.00)	38.00	548.64 (	1800.00)	36.00
30.48 (	100.00)	44.00	670.56 (	2200.00)	17.00
36.57 (	120.00)	40.00	792.48 (	2600.00)	15.50
42.67 (	140.00)	44.00	914.40 (	3000.00)	14.50
60.96 (	200.00)	45.00	1219.20 (	4000.00)	20.00



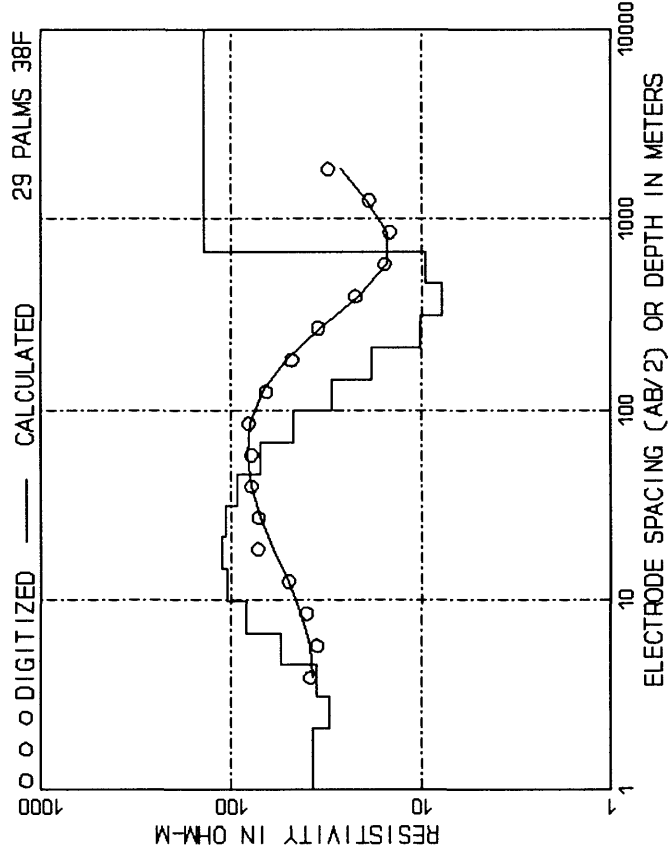
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	8.56	44.85 (	147.16)	46.41
3.06 (	10.03)	17.26	65.84 (	216.00)	24.33
4.49 (	14.72)	25.77	96.64 (	317.04)	20.57
6.58 (	21.60)	48.89	141.84 (	465.36)	30.35
9.66 (	31.70)	79.86	208.19 (	683.05)	27.29
14.18 (	46.54)	107.15	305.59 (	1002.58)	9.66
20.82 (	68.31)	111.00	448.54 (	1471.59)	3.64
30.56 (	100.26)	83.50	99999.00 (	99999.00)	120.00



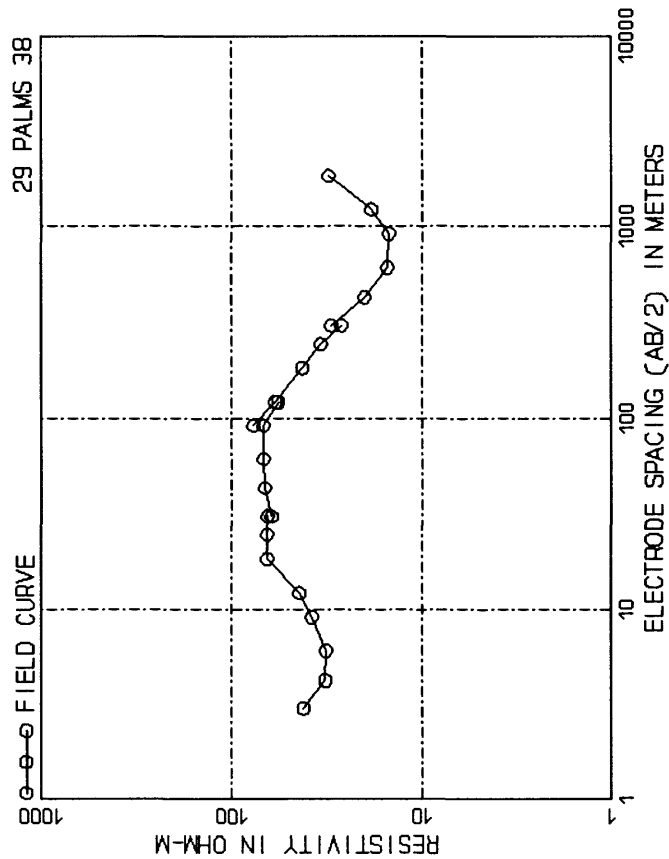
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
3.13 (	6.98)	74.77	45.84 (	150.39)	74.56
5.12 (	10.25)	60.57	67.58 (	220.74)	72.50
4.58 (	15.04)	54.12	98.76 (	324.00)	58.93
6.73 (	22.07)	56.00	144.95 (	475.57)	36.06
9.88 (	32.40)	61.76	212.76 (	698.04)	15.94
14.50 (	47.56)	66.29	312.29 (	1024.58)	6.93
21.28 (	69.80)	68.65	458.38 (	1503.88)	5.88
31.23 (	102.46)	71.43	672.81 (	2207.39)	8.11
			99999.00 (	99999.00)	140.00



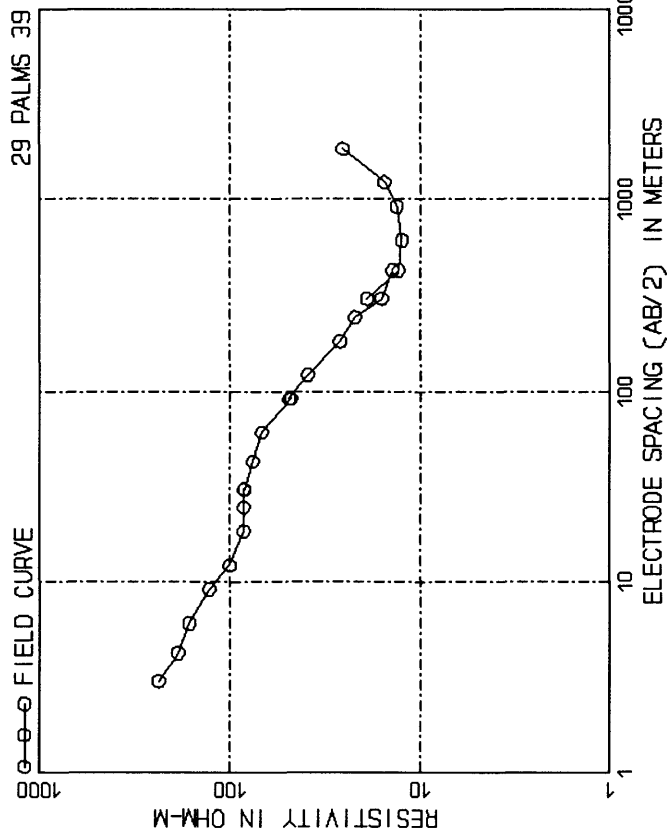
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	90.00	91.44 (	300.00)	67.00
4.27 (	14.00)	76.00	91.44 (	300.00)	67.00
6.10 (	20.00)	68.00	121.92 (	400.00)	63.00
9.14 (	30.00)	66.00	182.88 (	600.00)	49.00
12.19 (	40.00)	68.00	243.84 (	800.00)	38.50
18.28 (	60.00)	72.00	304.80 (	1000.00)	28.00
24.38 (	80.00)	75.00	304.80 (	1000.00)	28.00
30.48 (	100.00)	75.00	426.72 (	1400.00)	17.30
42.67 (	140.00)	71.00	609.60 (	2000.00)	12.50
30.48 (	100.00)	65.00	914.40 (	3000.00)	12.00
42.67 (	140.00)	63.00	1219.20 (	4000.00)	16.90
60.96 (	200.00)	65.00	1828.80 (	6000.00)	24.00



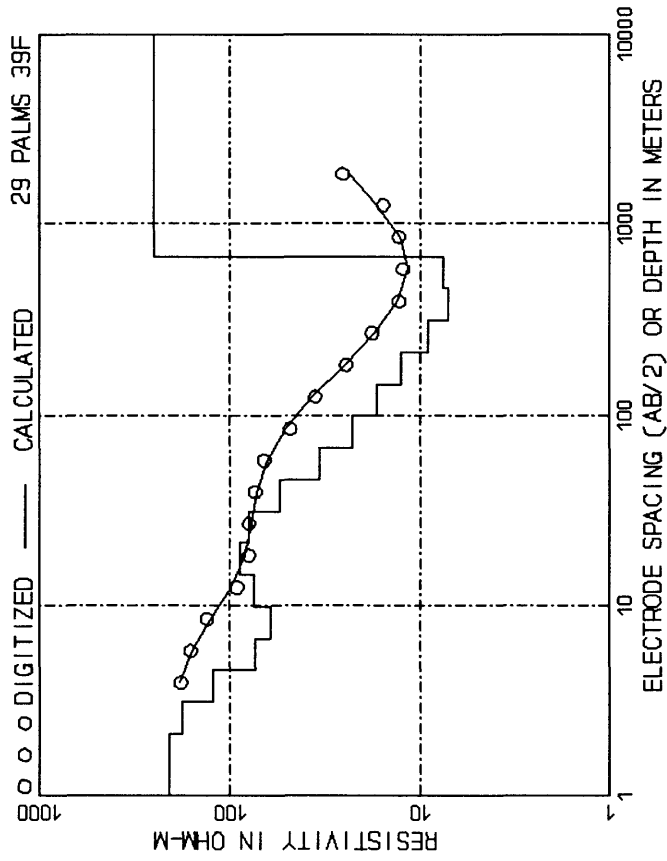
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	37.23	45.84 (	150.39)	92.54
3.12 (	10.25)	30.33	67.58 (	220.74)	70.64
4.58 (	15.04)	35.32	98.76 (	324.00)	47.11
6.73 (	22.07)	55.00	144.95 (	475.57)	29.79
9.88 (	32.40)	83.64	212.76 (	698.04)	18.14
14.50 (	47.56)	105.25	312.29 (	1024.58)	10.20
21.28 (	69.80)	111.64	458.38 (	1503.88)	7.78
31.23 (	102.46)	106.34	672.81 (	2207.39)	9.57
			99999.00 (	99999.00)	140.00



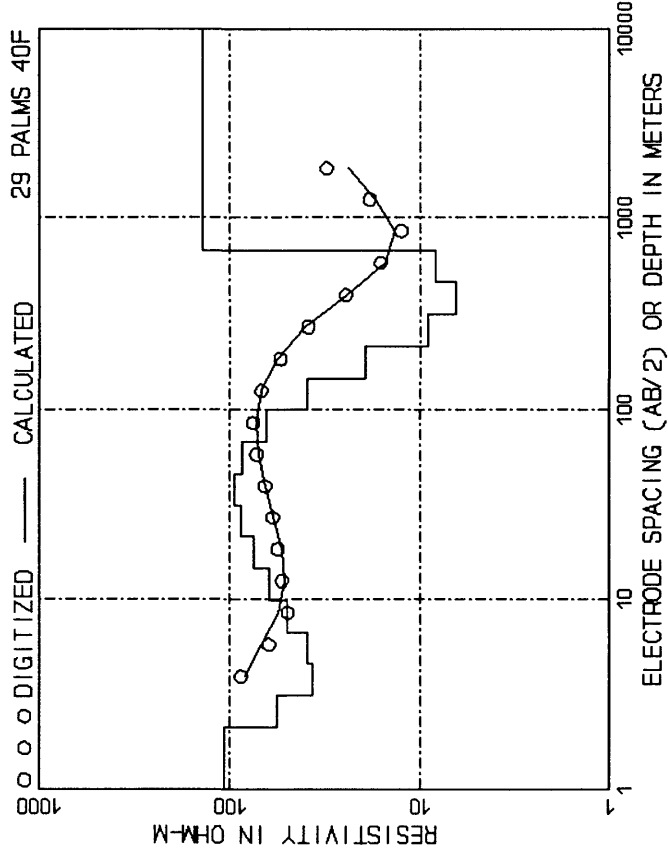
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	42.00	121.92 (	400.00)	57.00
4.27 (	14.00)	32.20	191.44 (	600.00)	77.00
6.10 (	20.00)	32.00	121.92 (	400.00)	59.00
9.14 (	30.00)	38.00	182.88 (	600.00)	42.50
12.19 (	40.00)	44.00	243.84 (	800.00)	34.00
18.28 (	60.00)	65.00	304.80 (	1000.00)	26.50
24.38 (	80.00)	65.00	304.80 (	1000.00)	30.00
30.48 (	100.00)	65.00	426.72 (	1400.00)	20.00
30.48 (	100.00)	62.00	609.60 (	2000.00)	13.20
42.67 (	140.00)	67.00	914.40 (	3000.00)	15.00
60.96 (	200.00)	68.00	1219.20 (	4000.00)	18.50
91.44 (	300.00)	68.00	1828.80 (	6000.00)	31.00



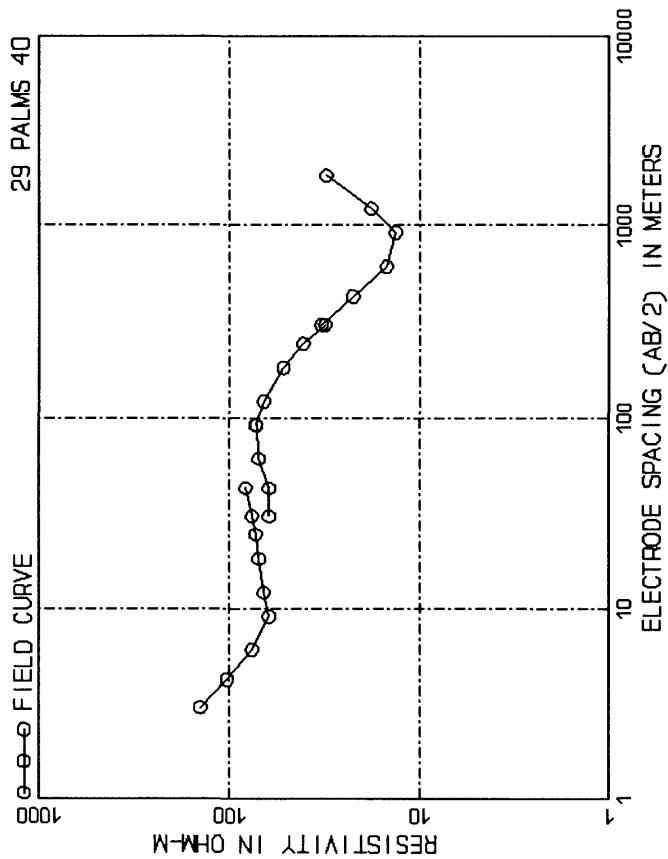
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	237.00	91.44 (	300.00)	49.00
4.27 (	14.00)	188.00	121.92 (	400.00)	38.00
6.10 (	20.00)	164.00	182.88 (	600.00)	28.40
9.14 (	30.00)	129.00	243.84 (	800.00)	22.00
12.19 (	40.00)	100.00	304.80 (	1000.00)	16.00
18.29 (	60.00)	85.00	426.72 (	1400.00)	14.00
24.38 (	80.00)	85.00	548.64 (	1800.00)	13.00
30.48 (	100.00)	85.00	670.56 (	2200.00)	12.50
42.67 (	140.00)	94.00	892.48 (	3000.00)	13.30
60.96 (	200.00)	68.00	1174.40 (	4000.00)	15.50
91.44 (	300.00)	48.00	1559.04 (	5000.00)	25.60



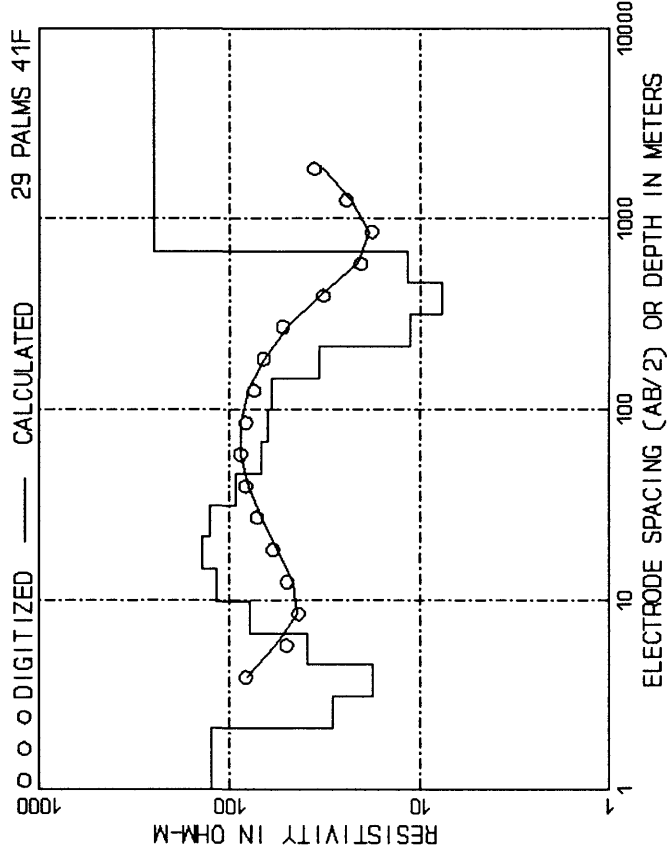
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	209.17	45.84 (	150.39)	54.97
3.12 (	10.25)	179.32	67.26 (	220.74)	33.89
4.58 (	15.04)	123.02	98.76 (	324.00)	22.80
6.73 (	22.07)	74.14	144.95 (	475.57)	16.91
9.88 (	32.40)	61.36	212.76 (	698.04)	12.49
14.50 (	47.56)	75.28	312.29 (	1024.58)	9.07
21.28 (	69.80)	88.61	458.38 (	1503.88)	7.06
31.23 (	102.46)	79.80	672.81 (	2207.39)	7.56
			99999.00 (	99999.00)	250.00



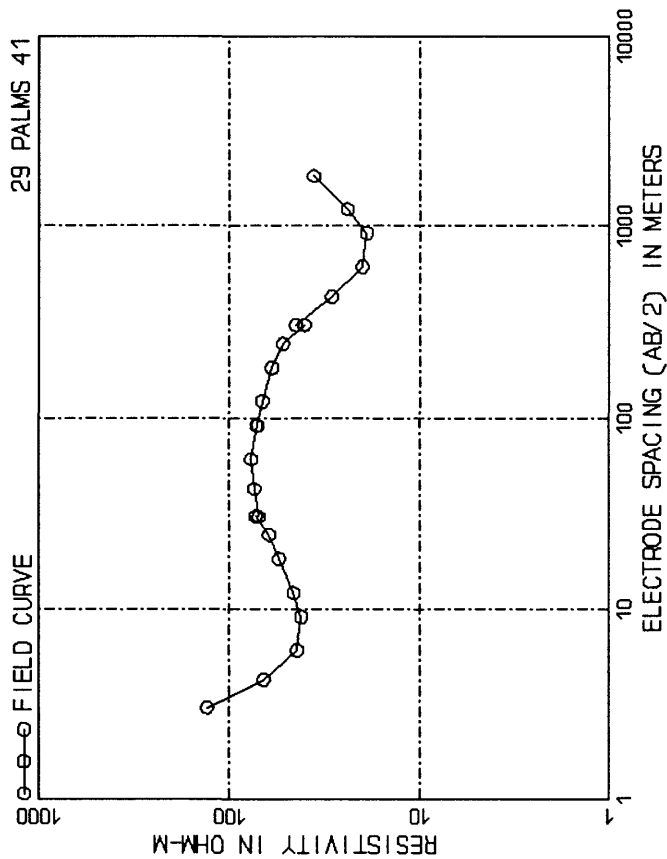
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	107.26	45.84 (	150.39)	93.97
3.12 (	10.25)	56.59	67.28 (	220.74)	85.90
4.58 (	15.04)	36.60	98.76 (	324.00)	64.04
6.73 (	22.07)	39.16	144.95 (	475.57)	38.80
9.88 (	32.40)	50.32	212.76 (	698.04)	19.45
14.50 (	47.56)	61.78	312.29 (	1024.58)	9.05
21.28 (	69.80)	74.31	458.38 (	1503.88)	6.46
31.23 (	102.46)	87.36	672.81 (	2207.39)	8.29
			99999.00 (	99999.00)	140.00



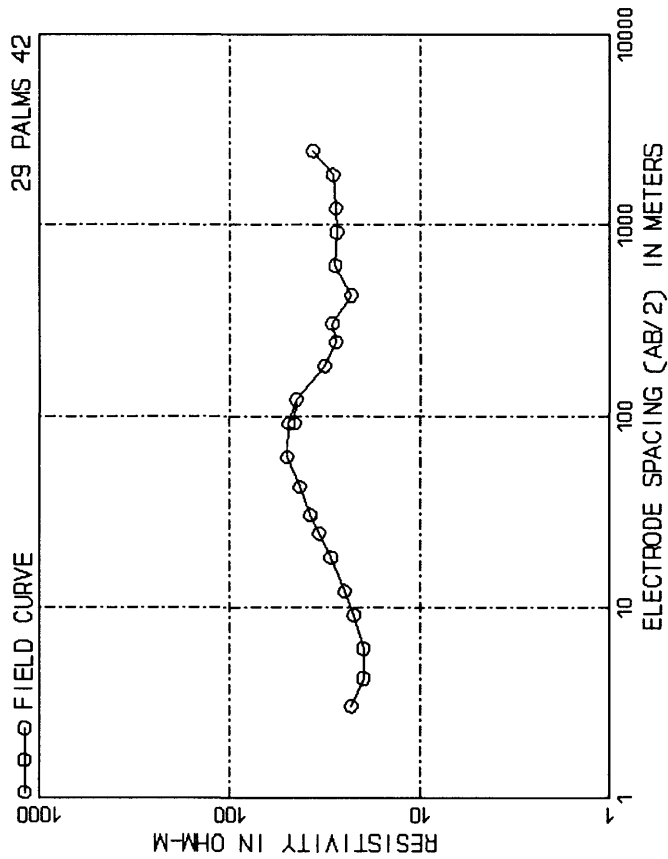
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	142.00	91.44 (	300.00)	72.00
4.27 (	14.00)	103.00	91.44 (	300.00)	72.00
6.10 (	20.00)	76.00	121.92 (	400.00)	66.00
9.14 (	30.00)	62.00	182.88 (	600.00)	52.00
12.19 (	40.00)	66.00	243.84 (	800.00)	41.00
18.29 (	60.00)	70.00	304.80 (	1000.00)	31.50
24.38 (	80.00)	73.00	304.80 (	1000.00)	33.00
30.48 (	100.00)	76.00	426.72 (	1400.00)	22.50
42.67 (	140.00)	82.00	609.60 (	2000.00)	15.00
60.96 (	200.00)	62.00	914.40 (	3000.00)	13.40
		62.00	1219.20 (	4000.00)	18.00
		70.00	1828.80 (	6000.00)	31.00



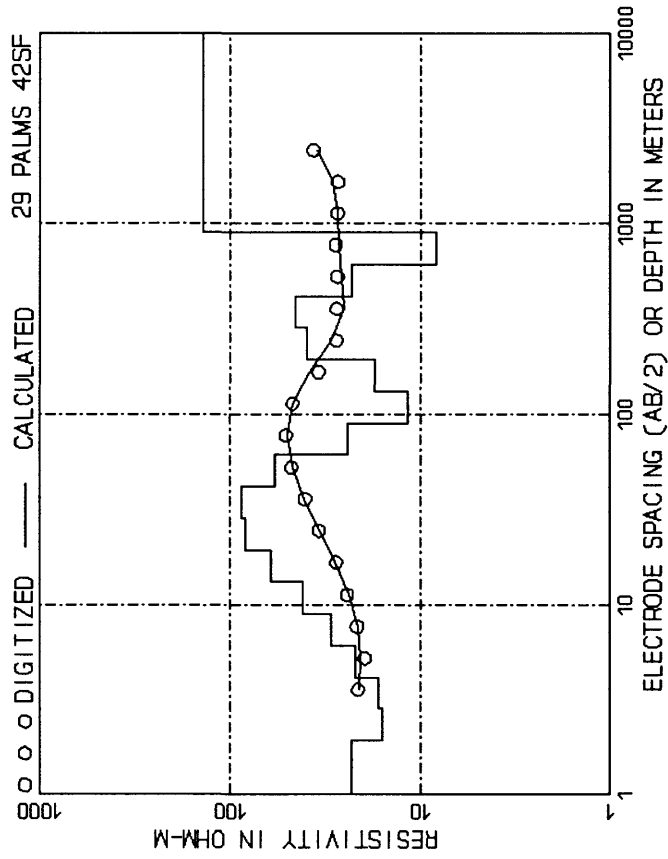
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	124.13	45.84 (	150.39)	93.17
3.12 (	10.25)	28.63	67.28 (	220.76)	68.11
4.58 (	15.04)	17.81	98.76 (	324.00)	62.90
6.73 (	22.07)	38.89	144.95 (	475.57)	60.38
9.88 (	32.40)	77.97	212.76 (	698.04)	33.96
14.50 (	47.80)	116.75	312.29 (	1024.58)	11.25
21.28 (	69.80)	139.01	458.38 (	1503.88)	7.69
31.23 (	102.46)	127.21	672.81 (	2207.39)	11.59
			99999.00 (	99999.00)	250.00



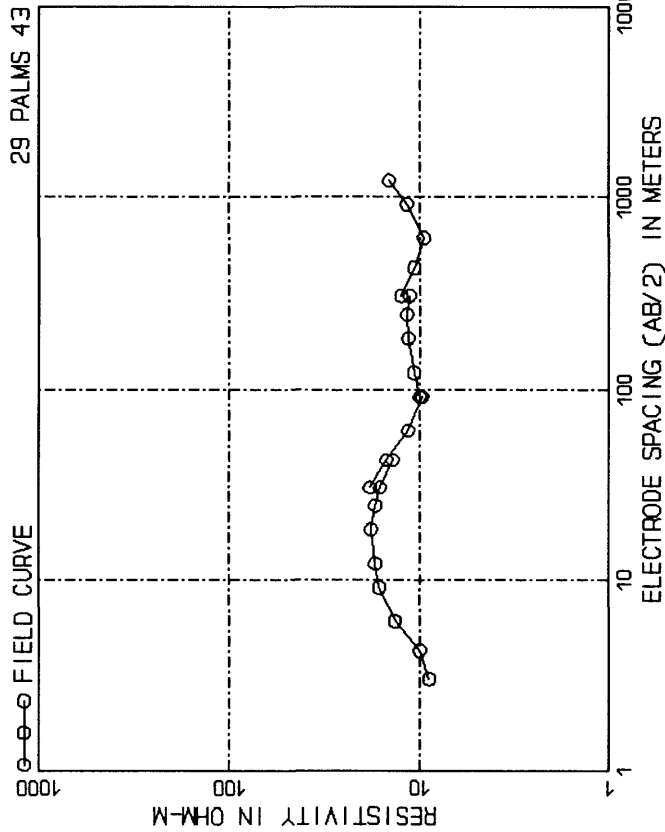
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	131.00	91.44 (	300.00)	71.00
4.27 (	14.00)	66.00	91.44 (	300.00)	72.00
6.10 (	20.00)	44.00	121.92 (	400.00)	61.50
9.14 (	30.00)	42.00	182.88 (	600.00)	60.00
12.19 (	40.00)	46.00	243.84 (	800.00)	52.50
18.29 (	60.00)	55.00	304.80 (	1000.00)	40.50
24.38 (	80.00)	62.00	304.80 (	1000.00)	45.00
30.48 (	100.00)	73.00	426.72 (	1400.00)	29.00
30.48 (	100.00)	70.00	609.60 (	2000.00)	20.00
42.67 (	140.00)	74.00	914.40 (	3000.00)	19.00
60.96 (	200.00)	77.00	1219.20 (	4000.00)	28.00
			1828.80 (	6000.00)	36.00



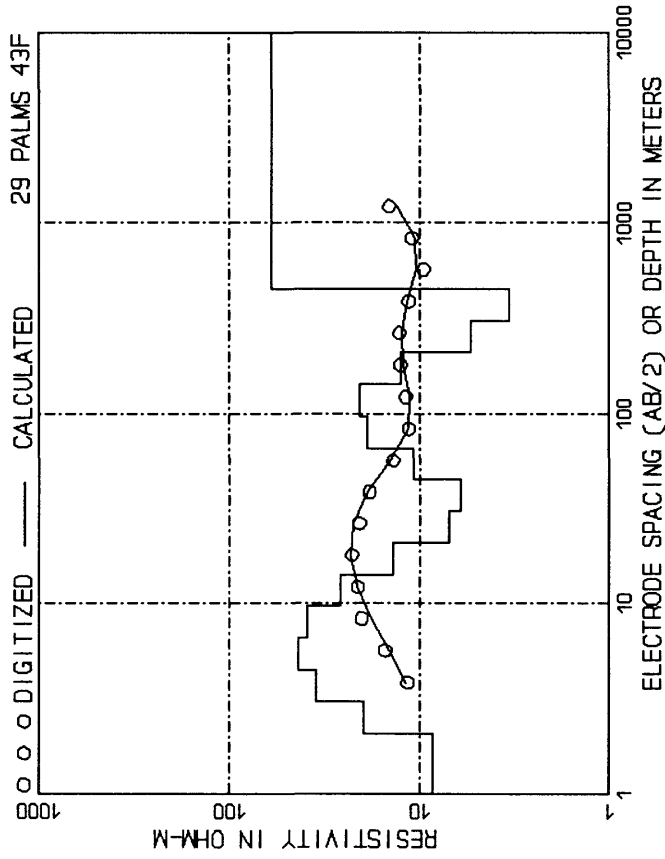
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	23.00	121.92 (	400.00)	45.00
4.27 (	14.00)	19.90	191.44 (	300.00)	45.50
6.10 (	20.00)	19.90	121.92 (	400.00)	45.00
9.14 (	30.00)	22.30	182.88 (	600.00)	32.00
12.19 (	40.00)	25.00	243.84 (	800.00)	27.80
18.29 (	60.00)	29.40	304.80 (	1000.00)	29.00
24.38 (	80.00)	34.00	304.80 (	1000.00)	29.00
30.48 (	100.00)	37.70	426.72 (	1400.00)	23.00
30.48 (	100.00)	38.00	609.60 (	2000.00)	28.00
42.67 (	140.00)	43.00	914.40 (	3000.00)	27.50
60.96 (	200.00)	50.00	1219.20 (	4000.00)	27.80
91.44 (	300.00)	49.00	1828.80 (	6000.00)	28.80
			2438.40 (	8000.00)	36.70



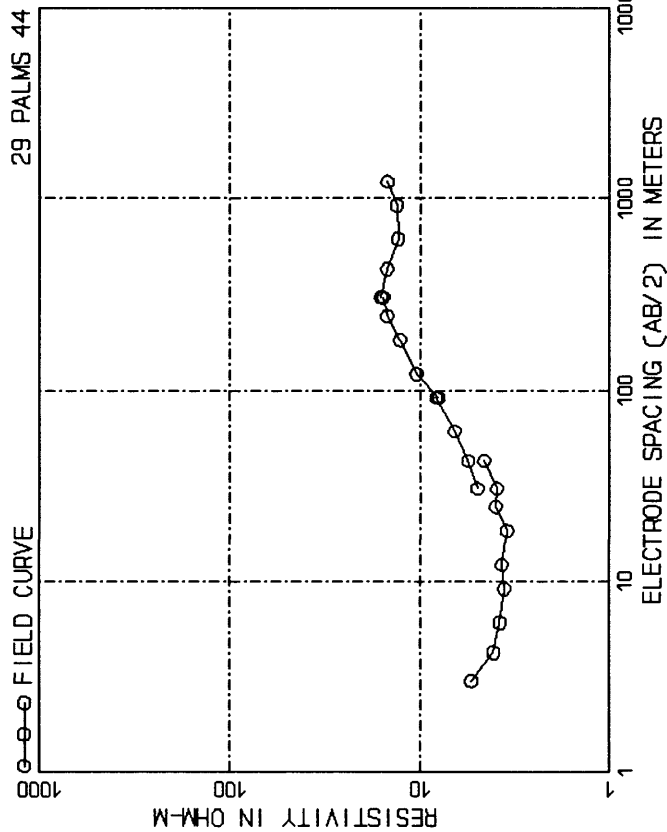
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.93 (	6.34)	22.99	61.12 (	200.52)	58.15
2.84 (	9.31)	15.76	89.71 (	294.32)	23.99
4.16 (	13.66)	16.70	151.67 (	432.00)	11.59
6.11 (	20.05)	22.12	193.27 (	634.09)	17.35
8.97 (	29.43)	29.64	283.68 (	930.72)	39.56
13.17 (	43.20)	41.73	416.39 (	1366.10)	45.72
19.33 (	63.41)	60.98	611.17 (	2005.17)	23.09
28.37 (	93.07)	82.97	897.08 (	2943.18)	8.28
41.64 (	136.61)	87.41	99999.00 (	99999.00)	140.00



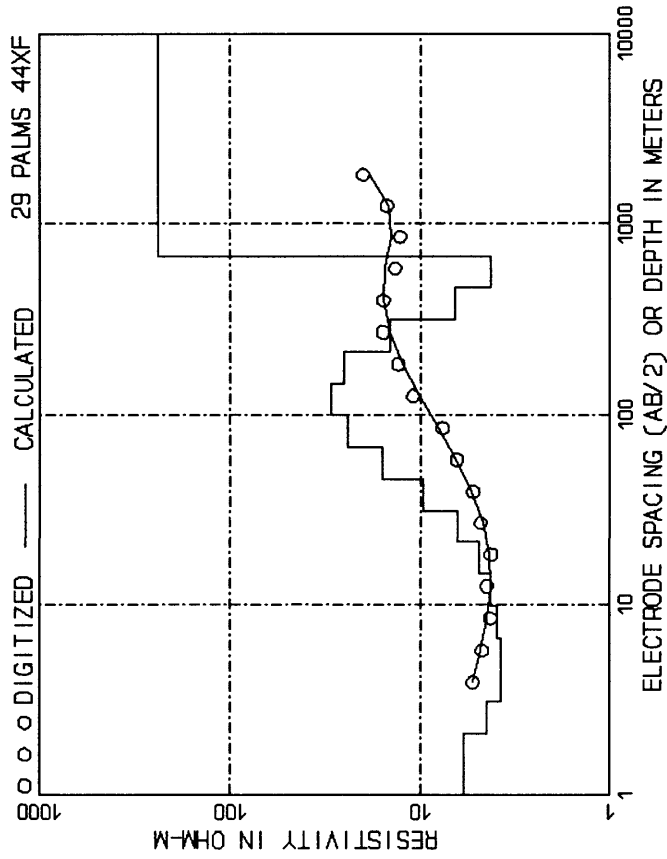
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	8.90	60.96 (	200.00)	11.50
4.27 (	14.00)	10.00	91.44 (	300.00)	9.70
6.10 (	20.00)	13.50	121.92 (	400.00)	10.00
9.14 (	30.00)	16.30	182.88 (	600.00)	10.70
12.19 (	40.00)	17.10	243.84 (	800.00)	11.50
18.29 (	60.00)	18.00	304.80 (	1000.00)	11.70
24.38 (	80.00)	17.10	304.80 (	1000.00)	11.30
30.48 (	100.00)	16.20	426.72 (	1400.00)	12.50
42.67 (	140.00)	13.80	609.60 (	2000.00)	16.70
30.48 (	100.00)	18.20	914.40 (	3000.00)	9.50
42.67 (	140.00)	15.00	1219.20 (	4000.00)	11.70
					14.50



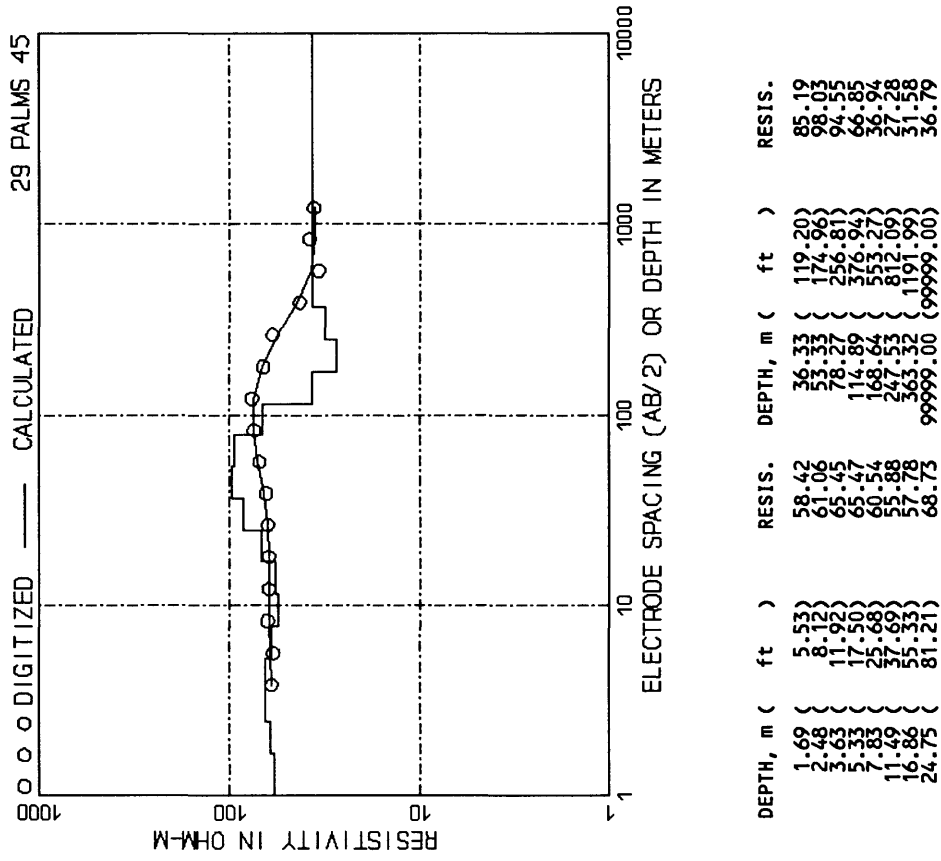
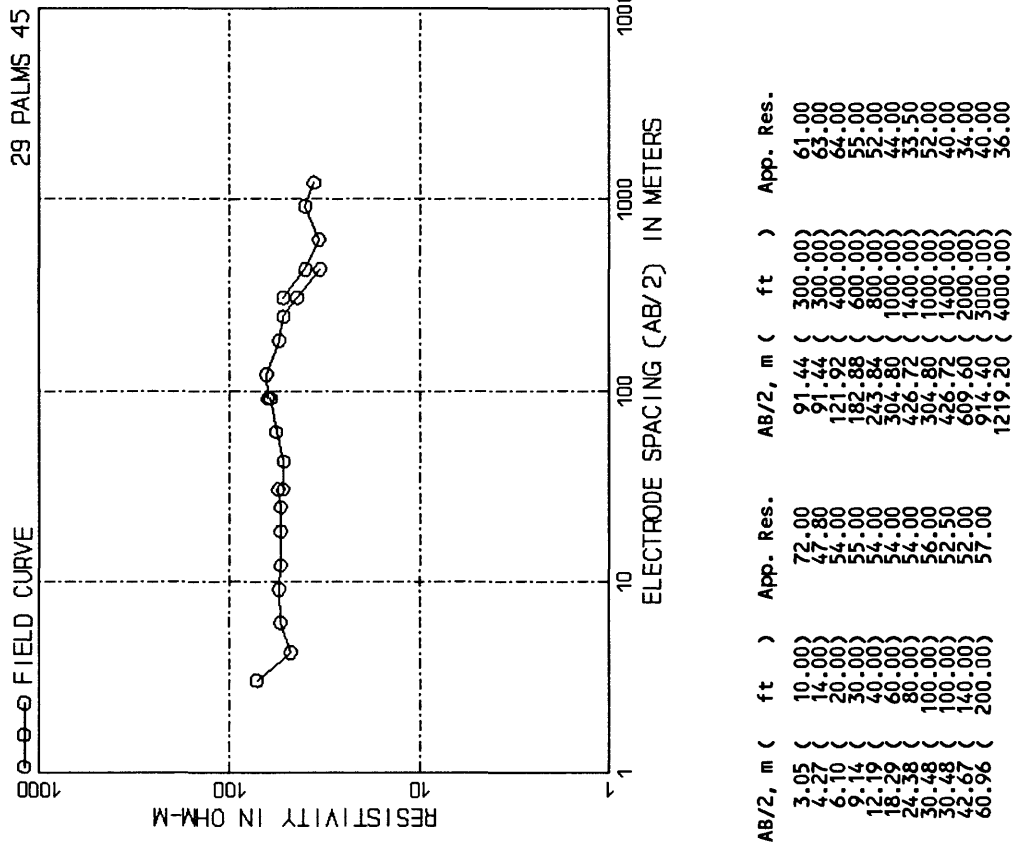
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.08 (	6.83)	8.62	44.85 (	147.16)	6.07
3.06 (	10.03)	19.74	65.84 (	216.00)	10.75
4.49 (	14.72)	35.05	96.84 (	317.04)	18.92
6.58 (	21.60)	43.72	141.84 (	465.36)	20.78
9.66 (	31.70)	39.22	208.19 (	683.05)	12.67
14.18 (	46.54)	26.17	305.59 (	1002.58)	5.33
20.82 (	68.31)	13.76	448.54 (	1471.59)	3.37
30.56 (	100.26)	7.03	99999.00 (	99999.00)	60.00

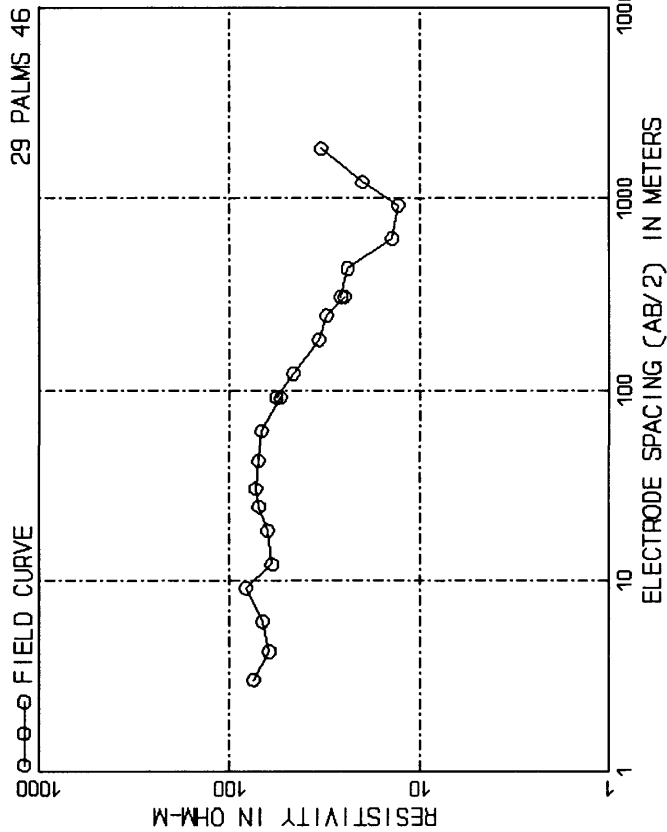


AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	5.35	60.96 (	200.00)	6.60
4.27 (	14.00)	4.70	91.44 (	300.00)	8.25
6.10 (	20.00)	3.80	121.92 (	400.00)	8.00
9.14 (	30.00)	3.60	182.88 (	600.00)	10.50
12.19 (	40.00)	3.70	243.84 (	800.00)	12.80
18.29 (	60.00)	3.50	304.80 (	1000.00)	15.00
24.38 (	80.00)	4.00	304.80 (	1000.00)	15.70
30.48 (	100.00)	3.95	426.72 (	1400.00)	16.10
42.67 (	140.00)	3.60	609.60 (	2000.00)	12.00
30.48 (	100.00)	5.00	914.40 (	3000.00)	13.10
42.67 (	140.00)	5.60	1219.20 (	4000.00)	13.30
					14.90

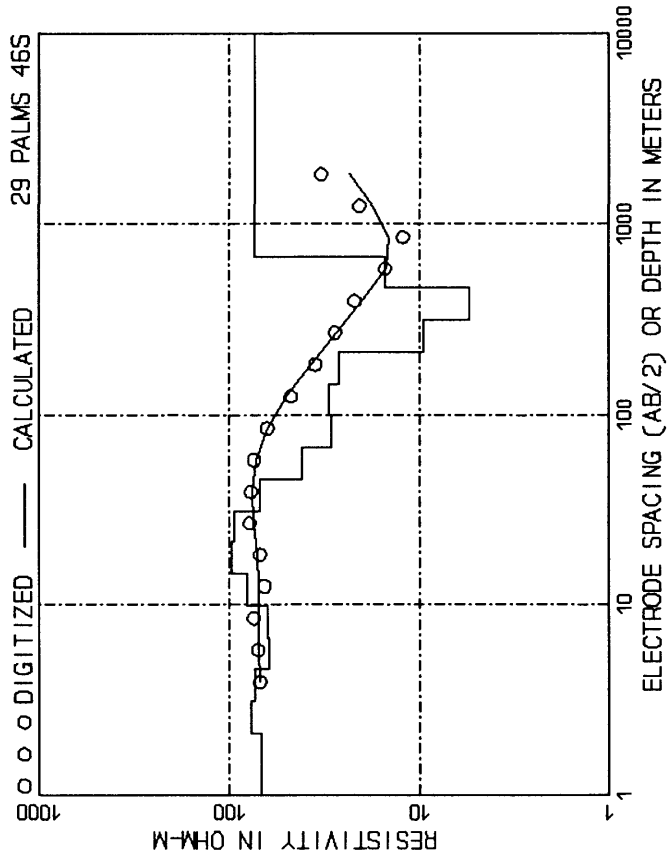


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	5.86	45.84 (	150.39)	9.66
3.12 (	10.25)	4.44	67.58 (	220.74)	15.89
4.58 (	15.04)	3.77	98.76 (	324.00)	24.08
6.73 (	22.07)	3.75	144.95 (	475.57)	29.37
9.88 (	32.40)	3.93	212.29 (	698.04)	25.46
14.50 (	47.56)	4.24	312.29 (	1024.58)	14.55
21.28 (	69.80)	4.88	458.38 (	1503.88)	6.56
31.23 (	102.46)	6.34	672.81 (	2207.39)	4.25
			99999.00 (	99999.00)	240.00

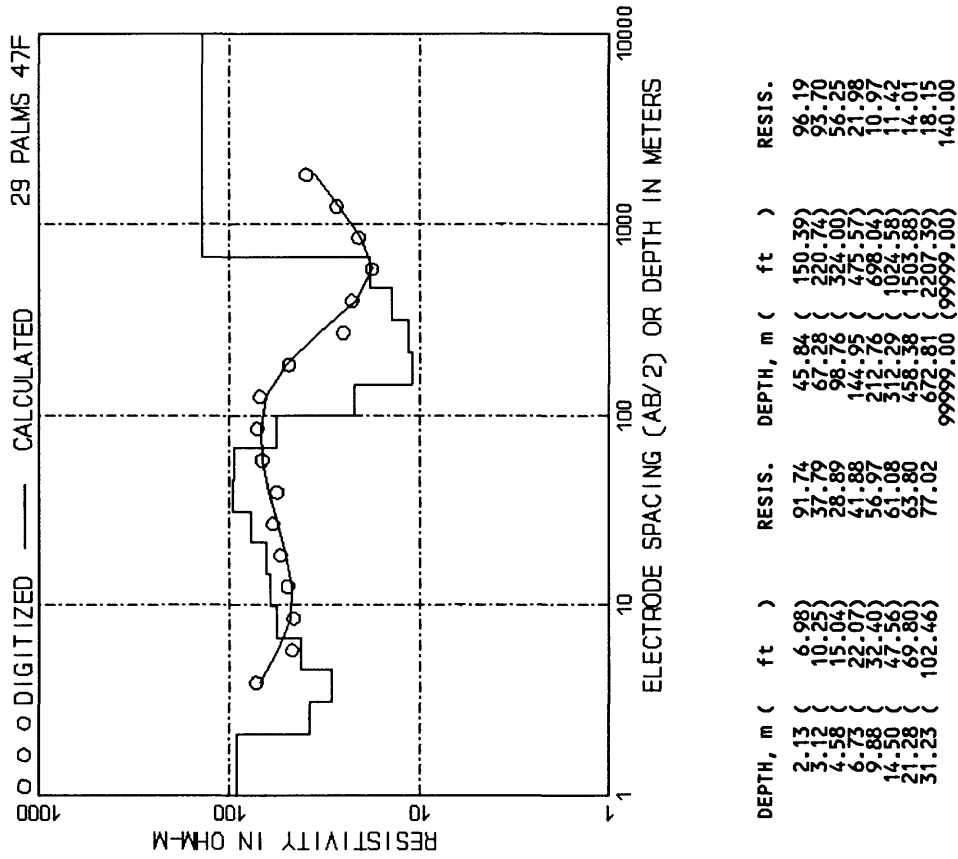
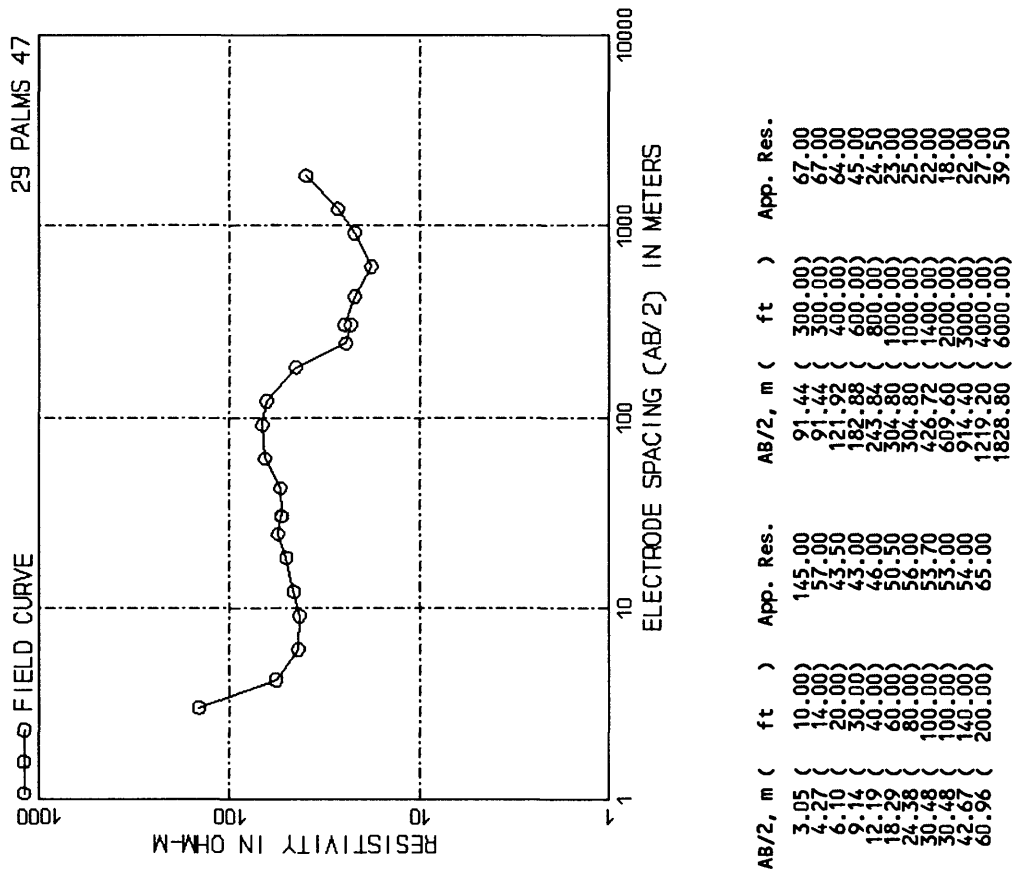


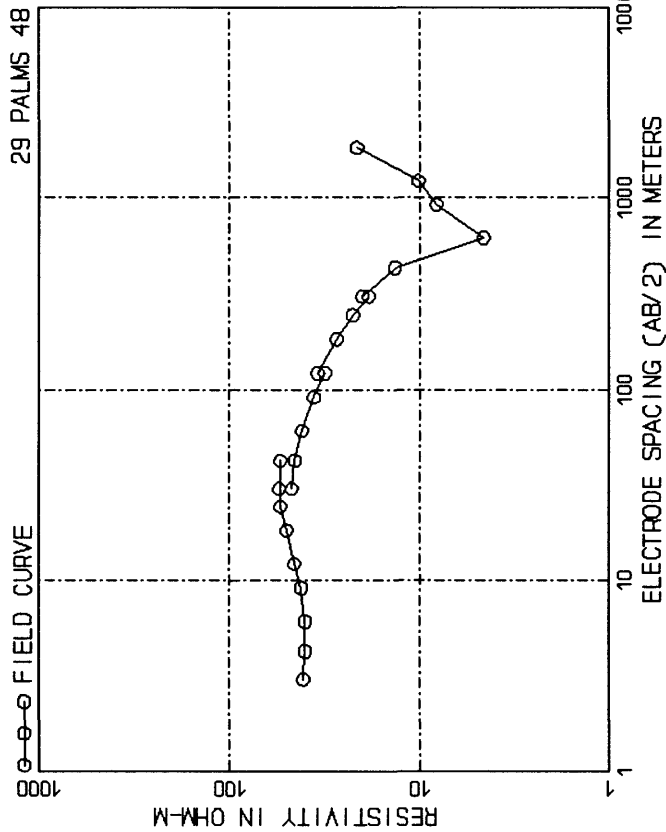


AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	75.00	91.44 (	300.00)	54.00
4.27 (	14.00)	62.00	91.44 (	300.00)	57.00
6.10 (	20.00)	67.00	121.92 (	400.00)	46.50
9.14 (	30.00)	82.00	182.88 (	600.00)	34.00
12.19 (	40.00)	60.00	243.84 (	800.00)	31.00
18.29 (	60.00)	63.00	304.80 (	1000.00)	25.00
24.38 (	80.00)	70.00	304.80 (	1000.00)	26.00
30.48 (	100.00)	73.00	426.72 (	1400.00)	24.00
30.48 (	100.00)	73.00	609.60 (	2000.00)	14.00
42.67 (	140.00)	70.50	914.40 (	3000.00)	13.00
60.96 (	200.00)	68.00	1219.20 (	4000.00)	20.00
			1828.80 (	6000.00)	33.00

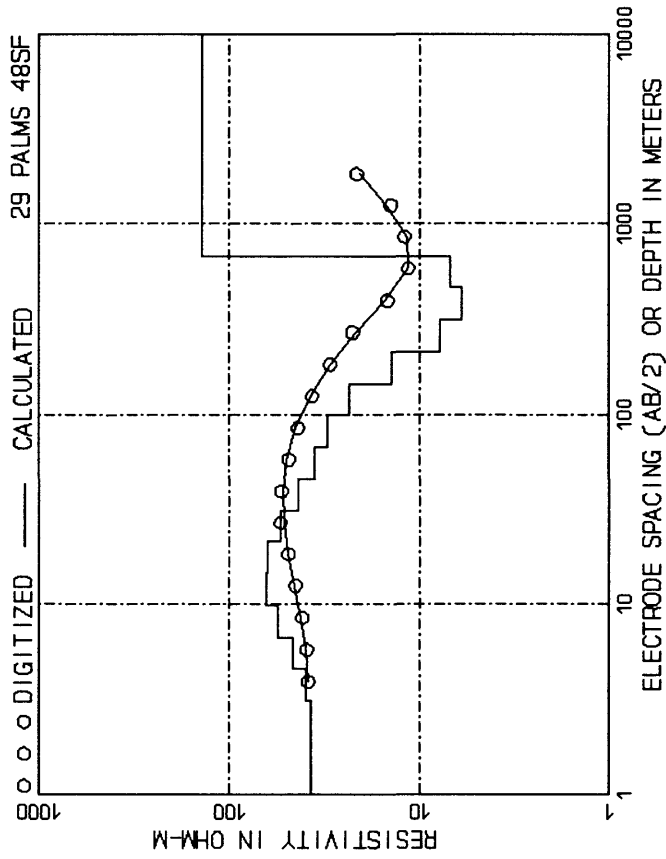


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	67.95	45.84 (	150.39)	69.31
3.12 (	10.25)	77.48	67.28 (	220.74)	41.72
4.58 (	15.04)	74.20	98.76 (	324.00)	28.91
6.73 (	22.07)	61.90	144.95 (	475.57)	30.24
9.88 (	32.40)	62.73	212.76 (	698.04)	26.38
14.50 (	47.56)	80.78	312.29 (	1024.58)	9.58
21.28 (	69.80)	97.89	458.38 (	1503.88)	5.42
31.23 (	102.46)	94.29	672.81 (	2207.39)	15.15
			99999.00 (	99999.00)	73.46

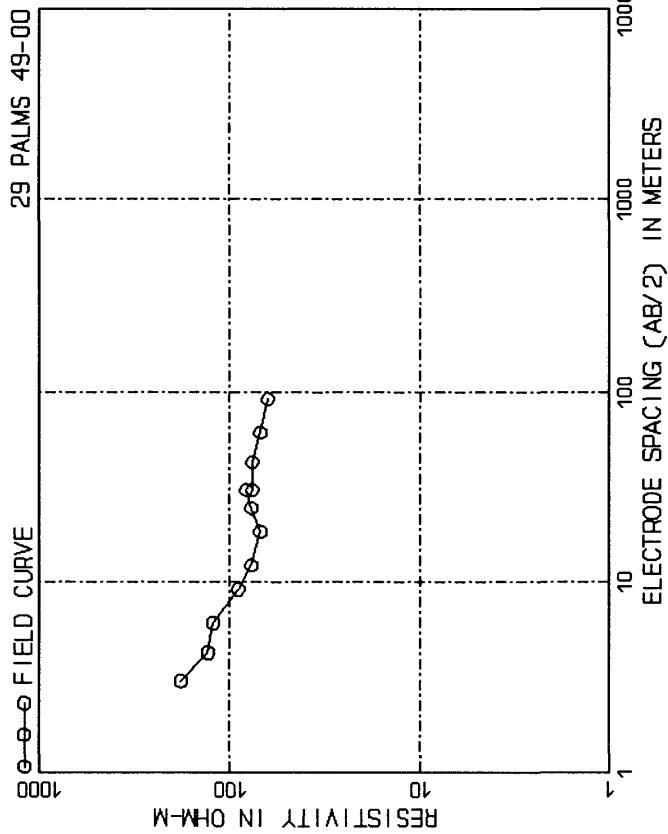




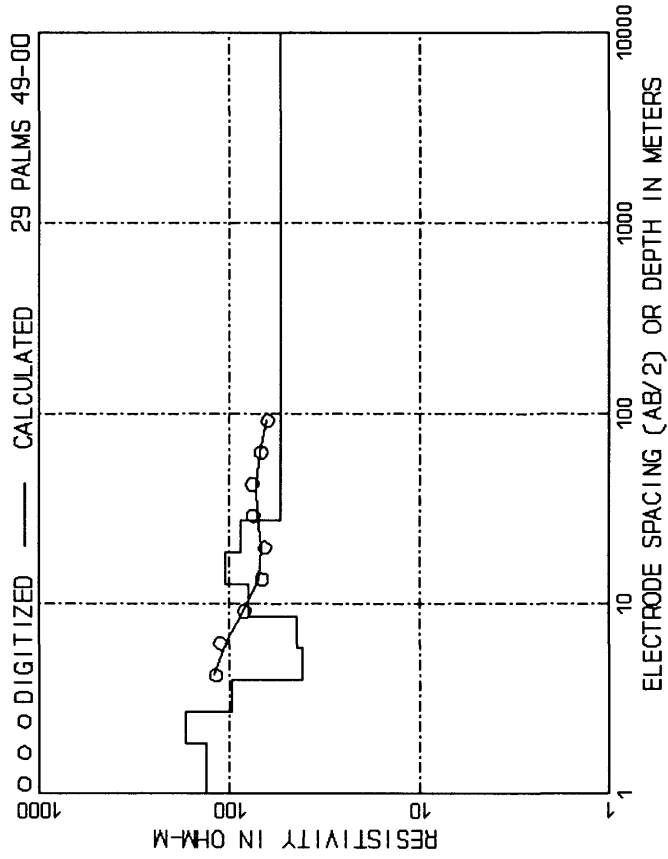
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	41.00	91.44 (	300.00)	36.00
4.27 (	14.00)	40.00	121.92 (	400.00)	31.50
6.10 (	20.00)	40.00	121.92 (	400.00)	34.50
9.14 (	30.00)	42.50	182.88 (	600.00)	27.40
12.19 (	40.00)	45.50	243.84 (	800.00)	22.50
18.29 (	60.00)	50.00	304.80 (	1000.00)	18.60
24.38 (	80.00)	54.00	304.80 (	1000.00)	20.00
42.67 (	140.00)	54.30	426.72 (	1400.00)	13.50
30.48 (	100.00)	55.00	609.60 (	2000.00)	8.20
30.48 (	100.00)	47.00	914.40 (	3000.00)	10.20
42.67 (	140.00)	45.30	1219.20 (	4000.00)	21.50
60.96 (	200.00)	41.50	1828.80 (	6000.00)	



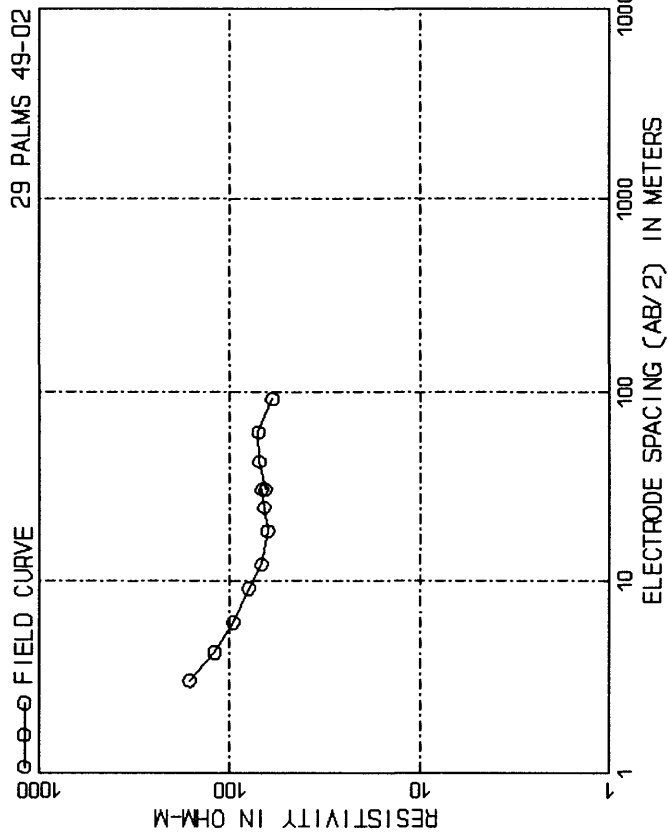
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.13 (	6.98)	37.57	45.84 (	150.39)	43.52
3.05 (	10.00)	37.40	67.28 (	220.74)	35.77
4.58 (	15.04)	39.96	98.76 (	324.00)	30.51
6.73 (	22.07)	46.39	144.95 (	475.57)	23.40
9.88 (	32.40)	55.88	212.76 (	698.04)	14.02
14.50 (	47.56)	63.72	312.29 (	1024.58)	7.85
21.28 (	69.80)	63.31	458.38 (	1503.88)	6.03
31.23 (	102.46)	54.36	672.81 (	2207.39)	6.89
			99999.00 (	99999.00)	140.00



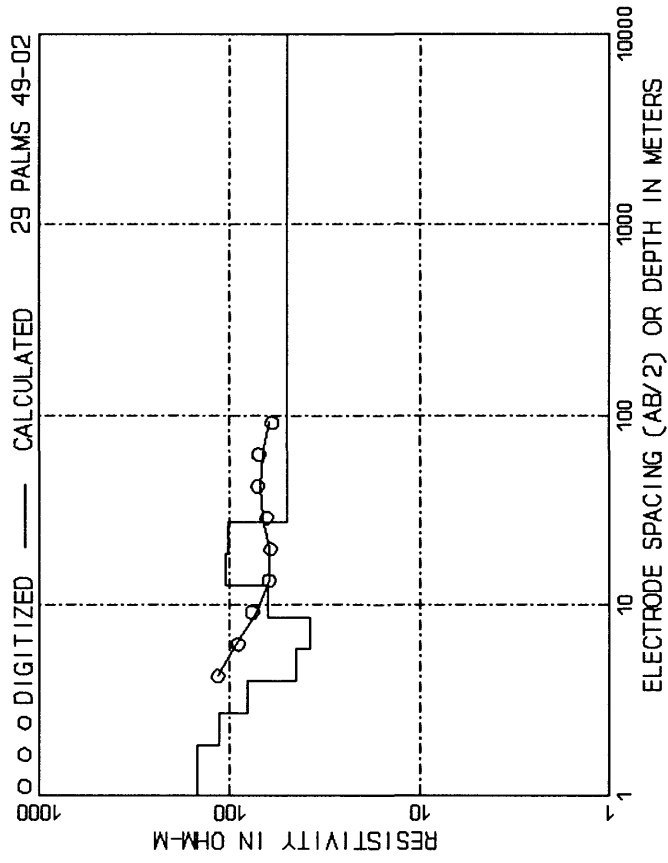
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	180.00	24.38 (	80.00)	77.00
4.27 (	14.00)	130.00	30.48 (	100.00)	82.00
6.10 (	20.00)	122.00	30.48 (	100.00)	76.00
9.14 (	30.00)	90.00	42.67 (	140.00)	69.00
12.19 (	40.00)	77.00	60.96 (	200.00)	63.00
18.29 (	60.00)	69.00	91.44 (	300.00)	



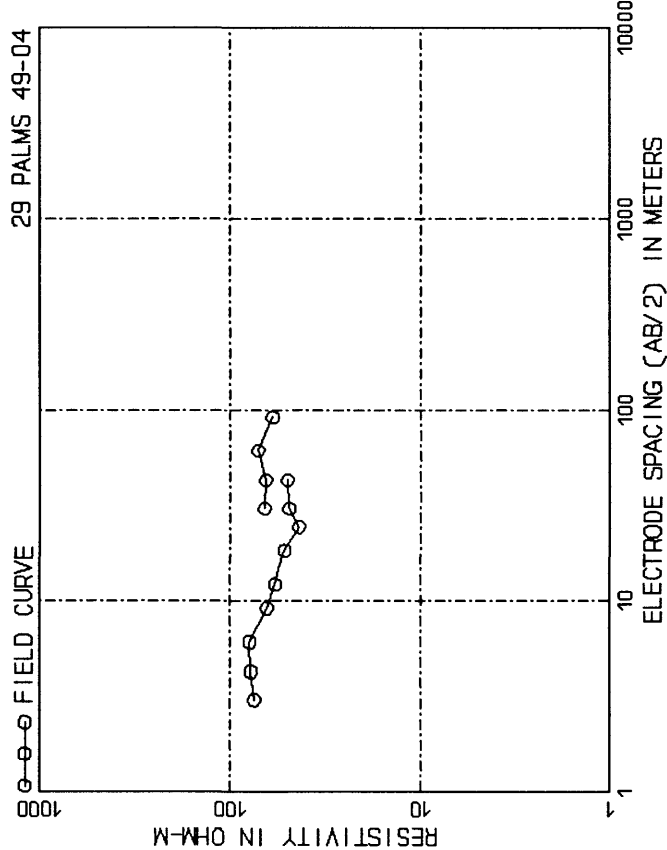
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	132.61	8.62 (	28.27)	43.92
2.72 (	8.94)	149.80	12.65 (	41.50)	80.09
4.00 (	13.12)	97.01	16.56 (	60.91)	105.60
5.87 (	19.26)	41.75	27.25 (	89.40)	87.04
			99999.00 (	99999.00)	54.05



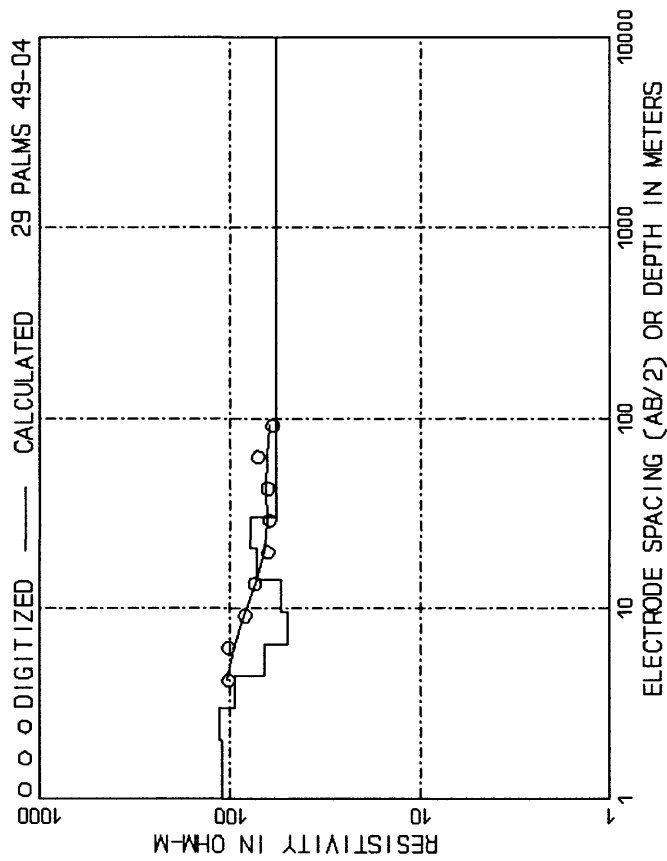
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	162.00	24.38 (	80.00)	66.00
4.27 (	14.00)	120.00	30.48 (	100.00)	68.00
6.10 (	20.00)	96.00	38.10 (	125.00)	65.00
9.14 (	30.00)	80.00	42.67 (	140.00)	70.00
12.19 (	40.00)	68.00	60.96 (	200.00)	71.00
18.29 (	60.00)	63.50	91.44 (	300.00)	60.00



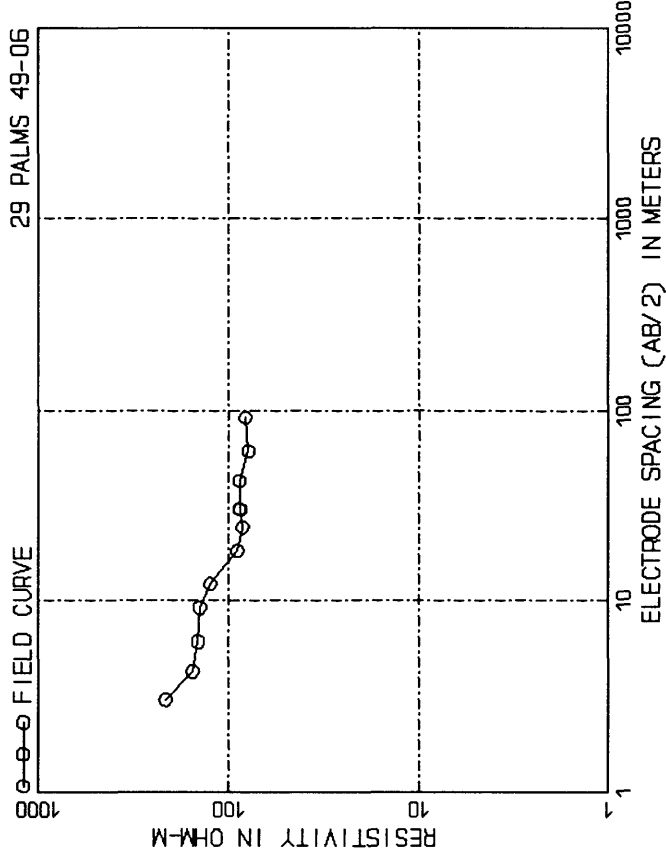
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	148.97	8.62 (	28.27)	38.09
2.72 (	8.94)	113.17	12.85 (	41.50)	62.76
4.00 (	13.12)	80.28	18.56 (	60.91)	104.92
5.87 (	19.26)	45.20	27.25 (	89.40)	101.88
			99999.00 (	99999.00)	49.89



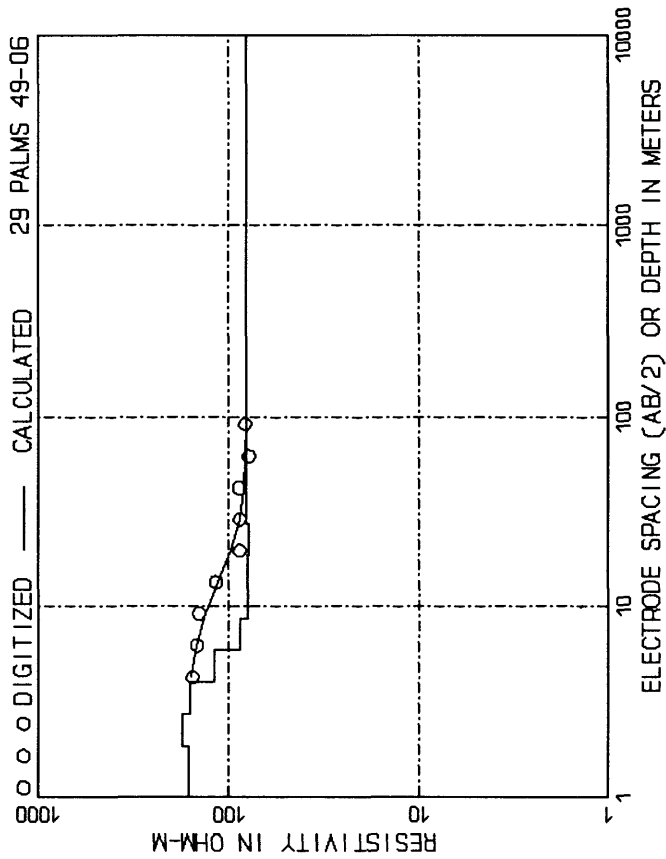
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	75.00	24.38 (	80.00)	43.50
4.27 (	14.00)	78.00	30.48 (	100.00)	48.00
6.10 (	20.00)	79.00	42.67 (	140.00)	50.00
9.14 (	30.00)	64.00	30.48 (	100.00)	66.00
12.19 (	40.00)	58.00	42.67 (	140.00)	65.00
18.29 (	60.00)	52.00	60.96 (	200.00)	71.50
			91.44 (	300.00)	60.00



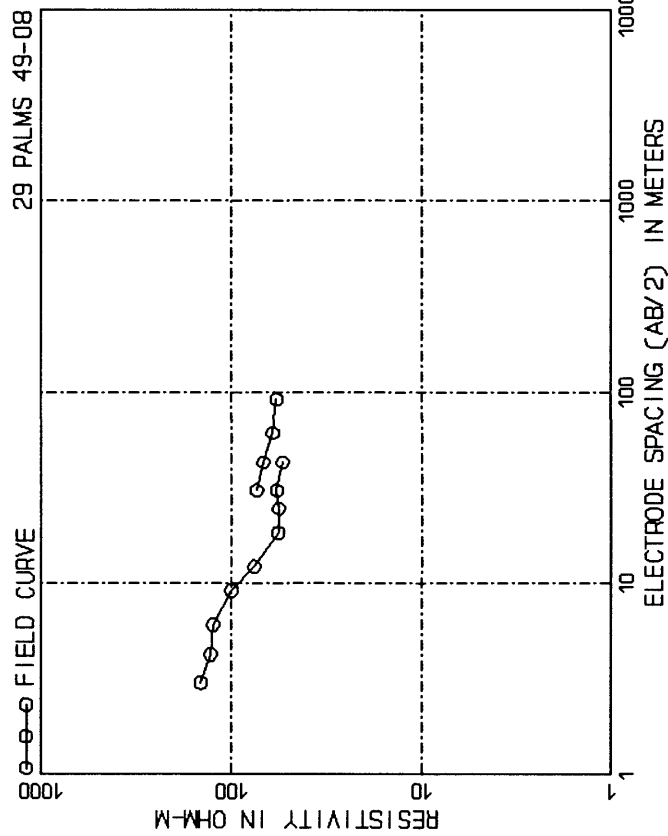
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	109.87	9.57 (	31.41)	49.97
3.03 (	9.93)	114.38	14.05 (	46.11)	53.97
4.44 (	14.58)	94.07	20.63 (	67.67)	72.33
6.52 (	21.40)	65.66	30.28 (	99.33)	78.91
			99999.00 (	99999.00)	57.55



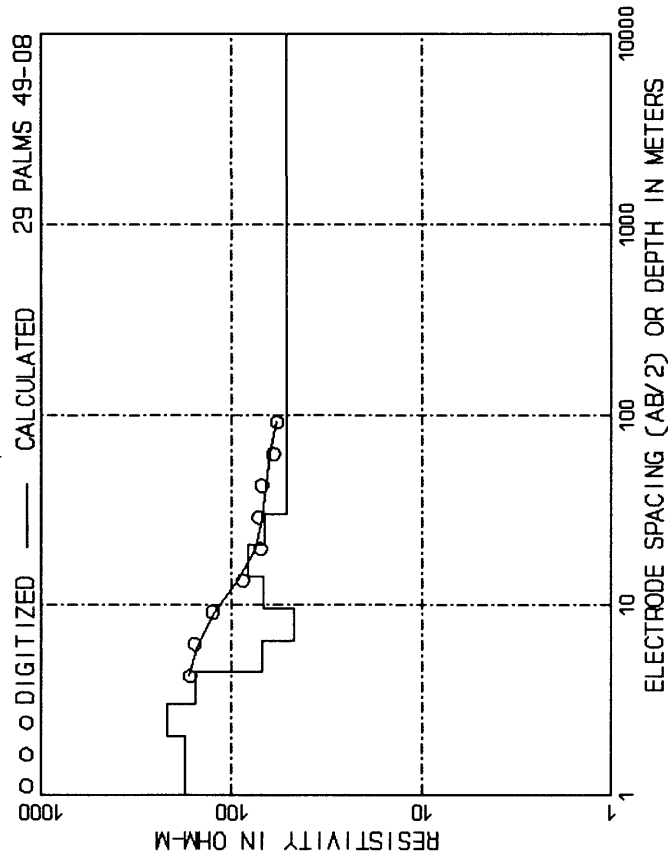
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	215.00	24.38 (	80.00)	85.00
4.27 (	14.00)	155.00	30.48 (	100.00)	87.00
6.10 (	20.00)	145.00	30.48 (	100.00)	88.00
9.14 (	30.00)	142.00	42.67 (	140.00)	88.00
12.19 (	40.00)	125.00	60.96 (	200.00)	79.00
18.29 (	60.00)	90.00	91.44 (	300.00)	82.00



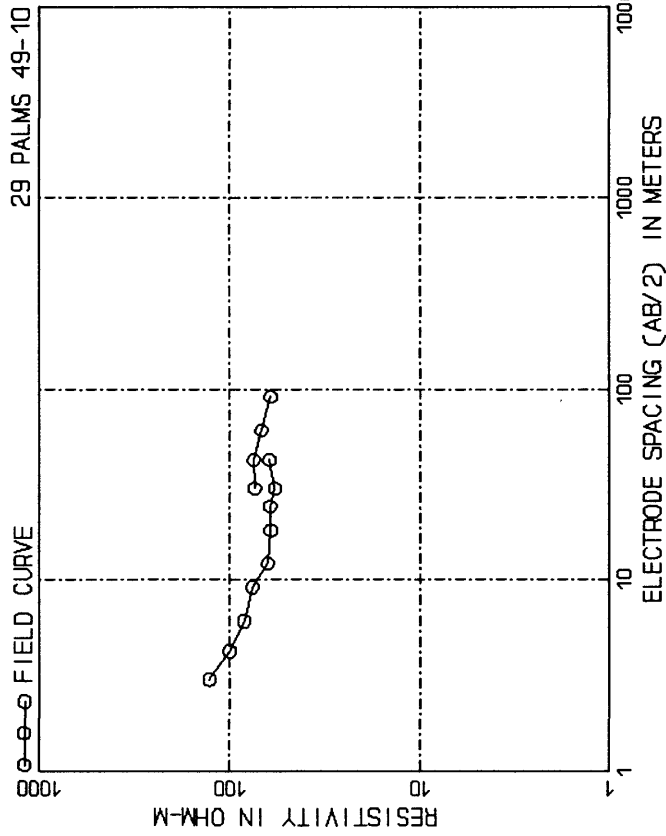
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	163.08	8.62 (	28.27)	87.47
2.72 (	8.94)	176.07	12.65 (	41.50)	79.74
4.00 (	13.12)	161.16	18.56 (	60.91)	79.20
5.87 (	19.26)	118.53	27.23 (	89.40)	78.53
			99999.00 (	99999.00)	81.39



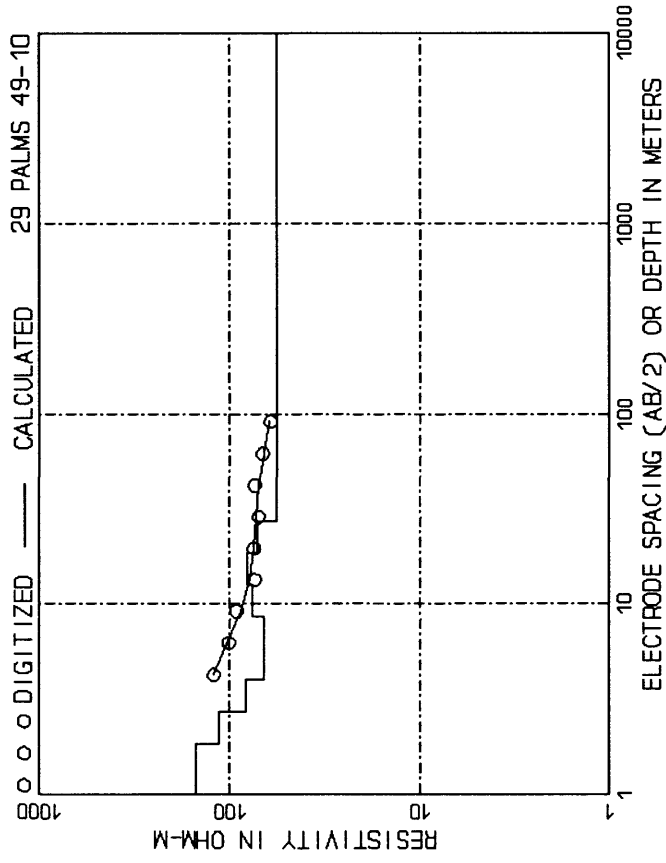
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	145.00	24.38 (	80.00)	56.50
4.27 (	14.00)	129.00	30.48 (	100.00)	58.00
6.10 (	20.00)	125.00	42.67 (	140.00)	54.00
9.14 (	30.00)	100.00	50.48 (	160.00)	74.00
12.19 (	40.00)	76.00	60.96 (	200.00)	68.00
18.29 (	60.00)	57.00	91.44 (	300.00)	58.00



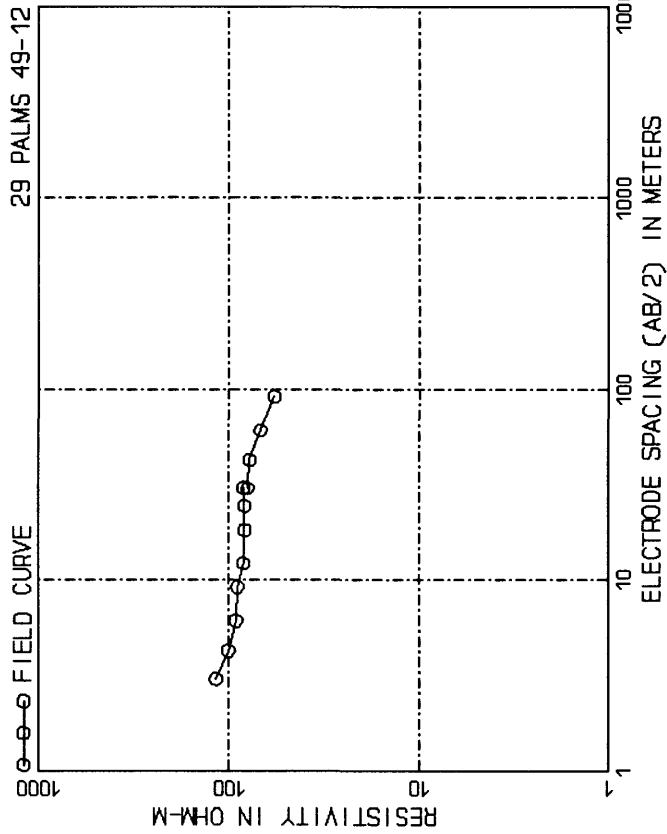
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	176.74	9.57 (	31.41)	47.23
3.03 (	9.93)	216.42	14.05 (	46.11)	67.89
4.44 (	14.58)	155.34	20.63 (	67.67)	82.31
6.52 (	21.40)	69.15	30.28 (	99.33)	67.39
			99999.00 (	99999.00)	51.78



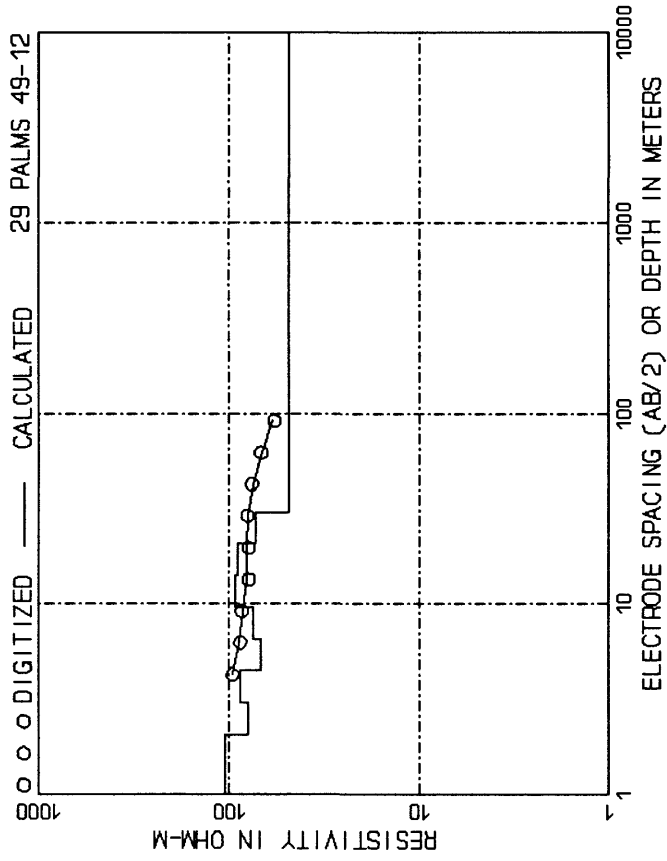
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	128.00	24.38 (	80.00)	61.50
4.27 (	14.00)	100.00	30.48 (	100.00)	58.00
6.10 (	20.00)	84.00	42.67 (	140.00)	62.00
9.14 (	30.00)	76.00	30.48 (	100.00)	74.00
12.19 (	40.00)	63.00	42.67 (	140.00)	75.00
18.29 (	60.00)	61.00	60.96 (	200.00)	68.00
			91.44 (	300.00)	61.00



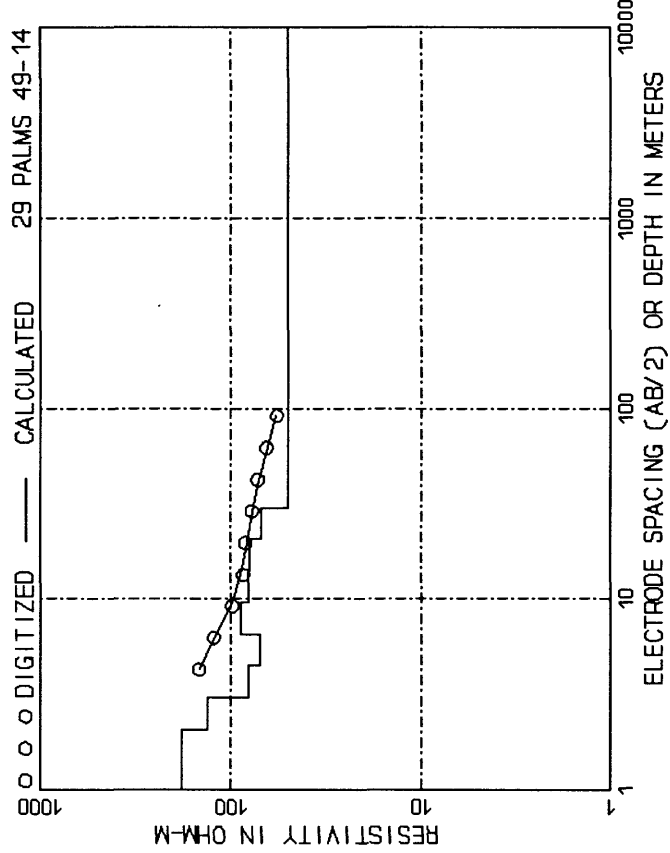
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	149.33	8.62 (	28.27)	66.37
2.72 (	8.94)	113.31	12.85 (	41.50)	75.33
4.00 (	13.12)	82.40	16.36 (	60.91)	80.29
5.87 (	19.26)	65.92	27.25 (	89.40)	71.08
			99999.00 (	99999.00)	56.69



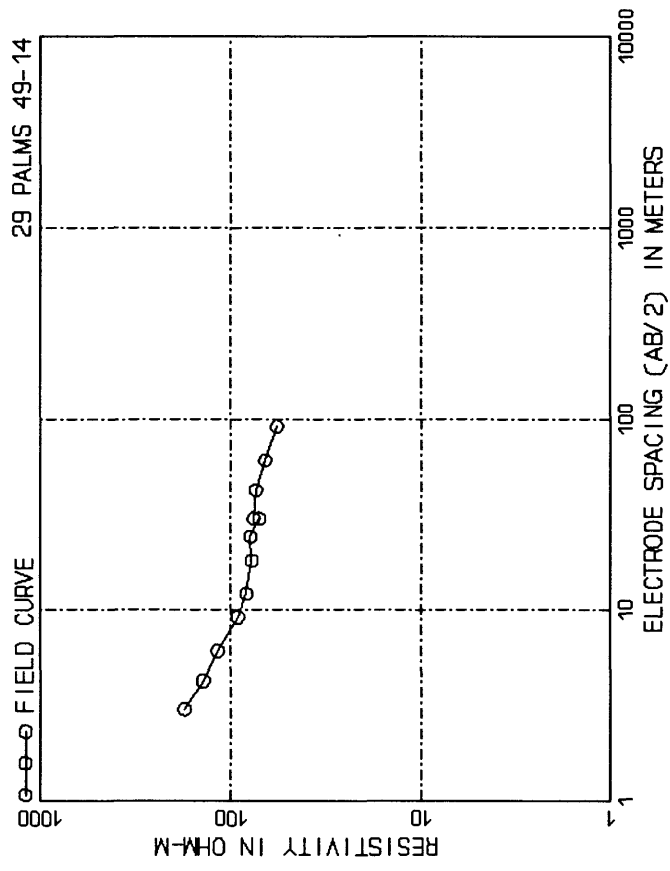
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	117.00	24.38 (	80.00)	83.00
4.27 (	14.00)	101.00	30.28 (	100.00)	84.00
6.10 (	20.00)	92.00	30.48 (	100.00)	80.00
9.14 (	30.00)	90.00	42.67 (	140.00)	78.00
12.19 (	40.00)	84.00	60.96 (	200.00)	68.50
18.29 (	60.00)	83.00	91.44 (	300.00)	58.00



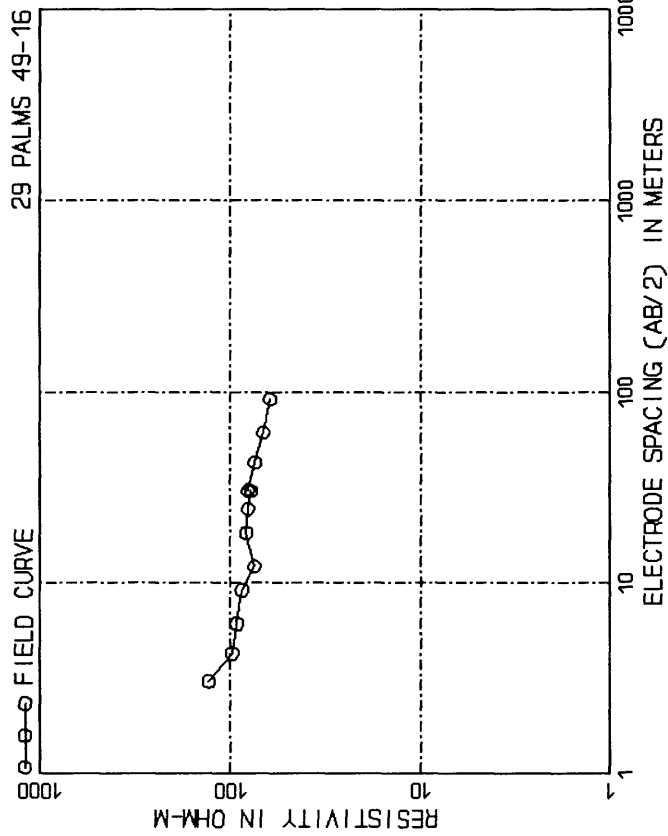
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	106.00	9.57 (	31.41)	75.07
3.03 (	9.93)	79.43	14.02 (	46.11)	93.02
4.44 (	14.58)	87.52	20.63 (	67.67)	90.61
6.52 (	21.40)	68.07	30.28 (	99.33)	72.44
			99999.00 (	99999.00)	48.26



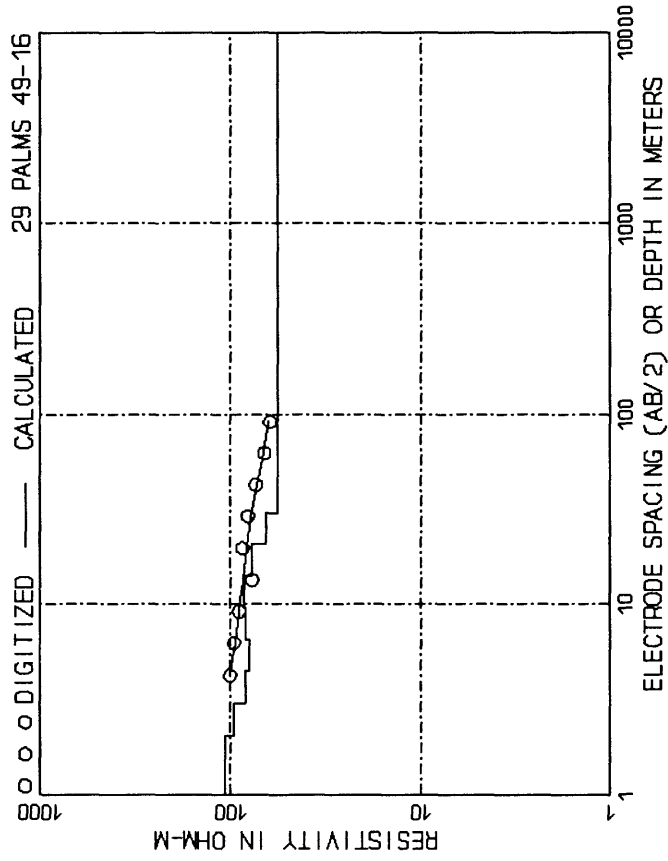
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	179.85	9.57 (	31.41)	88.33
3.03 (	9.93)	132.21	14.05 (	46.11)	80.84
4.44 (	14.58)	80.52	20.63 (	67.67)	79.38
6.52 (	21.40)	70.34	30.28 (	99.33)	68.86
			99999.00 (	99999.00)	50.12



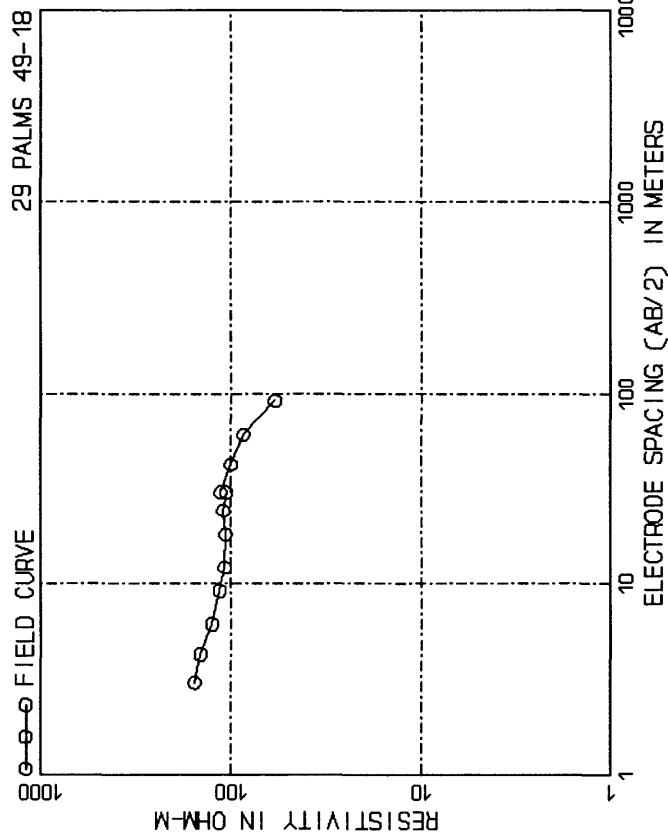
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	175.00	24.38 (	80.00)	79.00
4.27 (	14.00)	140.00	30.48 (	100.00)	71.00
6.10 (	20.00)	117.00	30.48 (	100.00)	76.00
9.14 (	30.00)	92.00	42.67 (	140.00)	74.00
12.19 (	40.00)	83.00	60.96 (	200.00)	66.00
18.29 (	60.00)	78.00	91.44 (	300.00)	57.50



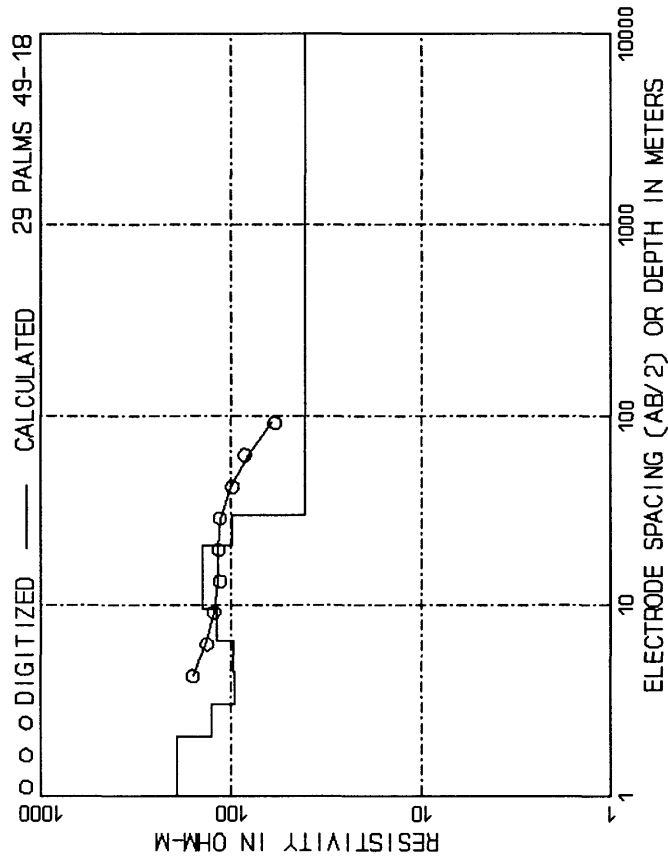
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	130.00	24.38 (	80.00)	81.00
4.27 (	14.00)	98.00	30.48 (	100.00)	78.00
6.10 (	20.00)	92.50	30.48 (	100.00)	81.00
9.14 (	30.00)	87.00	42.67 (	140.00)	74.50
12.19 (	40.00)	75.00	60.96 (	200.00)	67.00
18.29 (	60.00)	83.00	91.44 (	300.00)	62.00



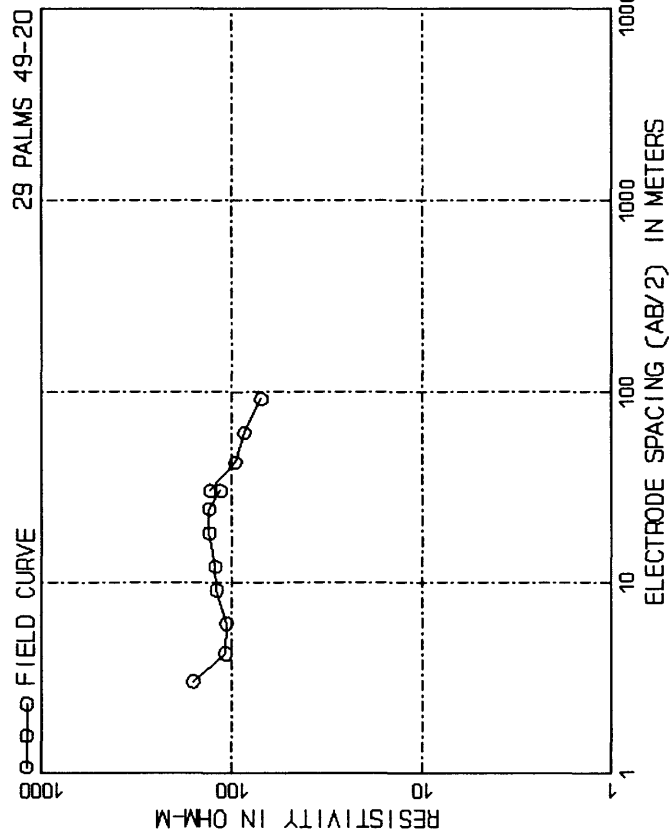
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	107.35	9.57 (	31.41)	84.05
3.03 (	9.93)	96.71	14.05 (	46.11)	85.00
4.44 (	14.58)	83.92	20.63 (	67.67)	76.96
6.52 (	21.40)	79.90	30.28 (	99.33)	65.51
			99999.00 (	99999.00)	56.80



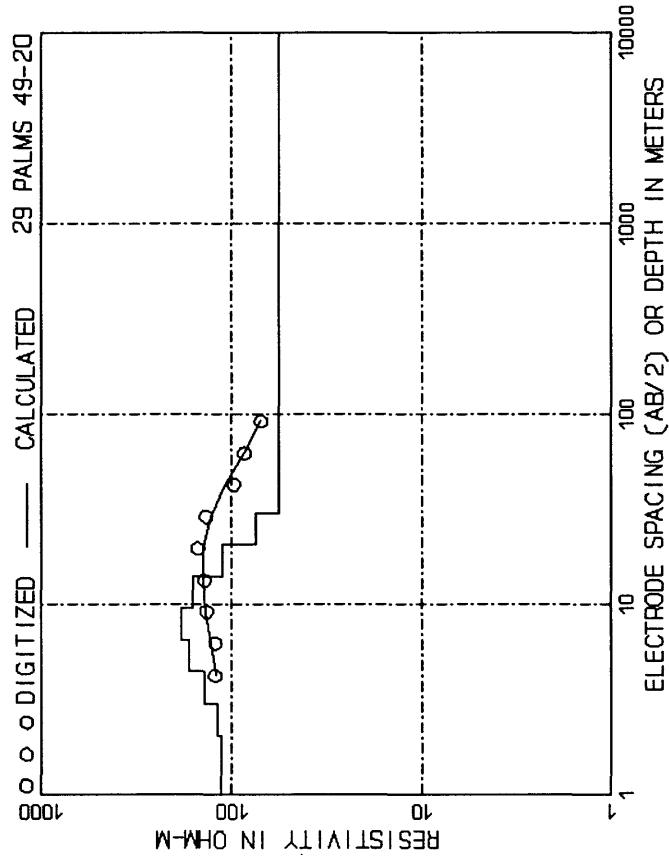
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	155.00	24.38 (	80.00)	110.00
4.27 (	14.00)	145.00	30.48 (	100.00)	106.00
6.10 (	20.00)	122.00	30.48 (	100.00)	114.00
9.14 (	30.00)	115.00	42.67 (	140.00)	100.00
12.19 (	40.00)	108.00	60.96 (	200.00)	86.00
18.29 (	60.00)	107.00	91.44 (	300.00)	59.00



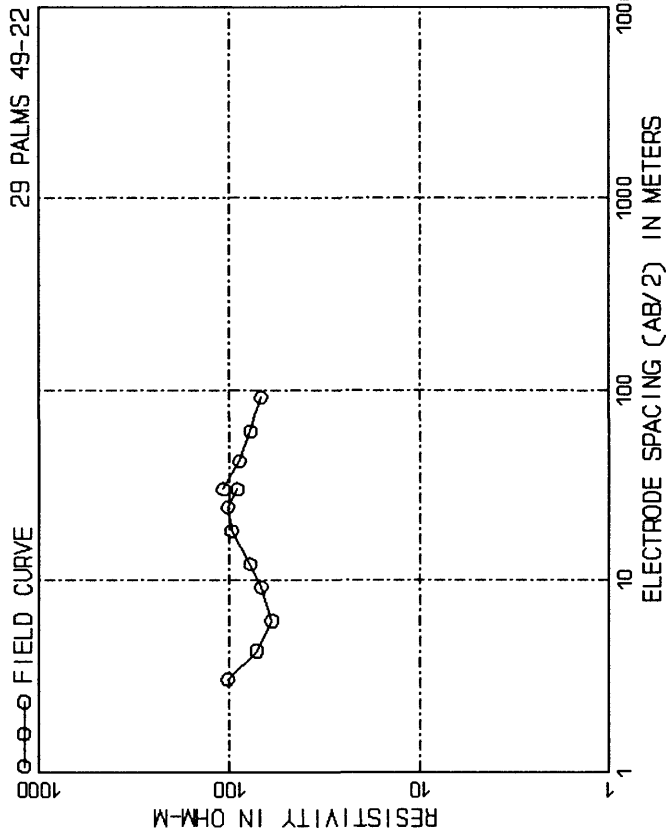
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	192.18	9.57 (	31.41)	118.94
3.05 (	9.93)	125.97	14.05 (	46.11)	140.94
4.44 (	14.58)	96.38	20.63 (	67.67)	140.97
6.52 (	21.40)	97.71	30.28 (	99.33)	98.56
			99999.00 (	99999.00)	41.17



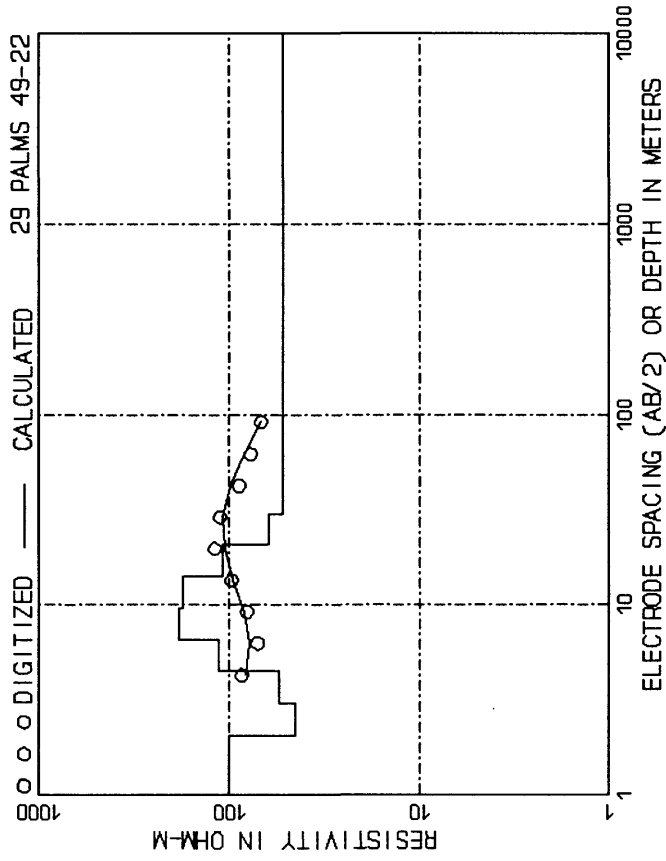
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	160.00	24.38 (	80.00)	132.00
4.27 (	14.00)	108.00	30.48 (	100.00)	115.00
6.10 (	20.00)	107.00	30.48 (	100.00)	130.00
9.14 (	30.00)	120.00	42.67 (	140.00)	96.00
12.19 (	40.00)	122.00	60.96 (	200.00)	86.00
18.29 (	60.00)	132.00	91.44 (	300.00)	70.00



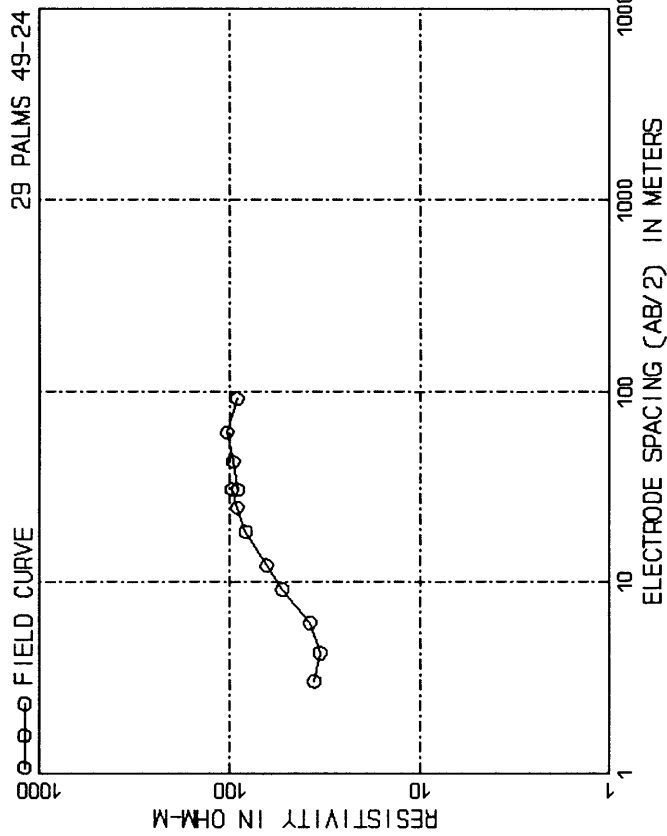
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	114.35	9.57 (	31.41)	182.90
3.03 (	9.93)	119.77	14.05 (	46.11)	159.86
4.44 (	14.58)	138.77	20.83 (	67.67)	112.35
6.52 (	21.40)	167.38	30.28 (	99.33)	74.59
			99999.00 (	99999.00)	56.54



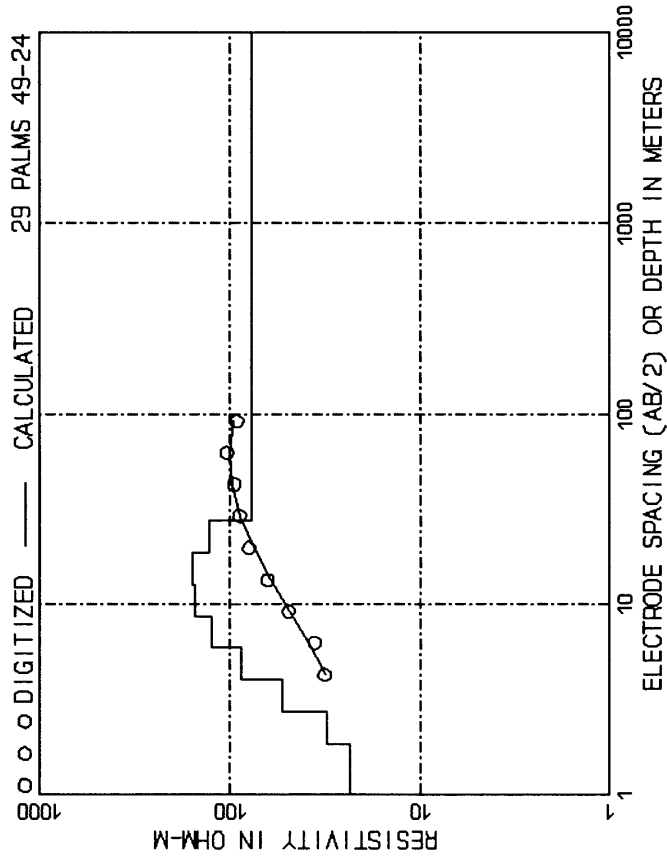
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	102.00	24.38 (	80.00)	102.00
4.27 (	14.00)	72.00	30.48 (	100.00)	91.00
6.10 (	20.00)	60.00	30.48 (	100.00)	108.00
9.14 (	30.00)	68.00	42.67 (	140.00)	89.00
12.19 (	40.00)	78.00	60.96 (	200.00)	78.00
18.29 (	60.00)	98.00	91.44 (	300.00)	68.00



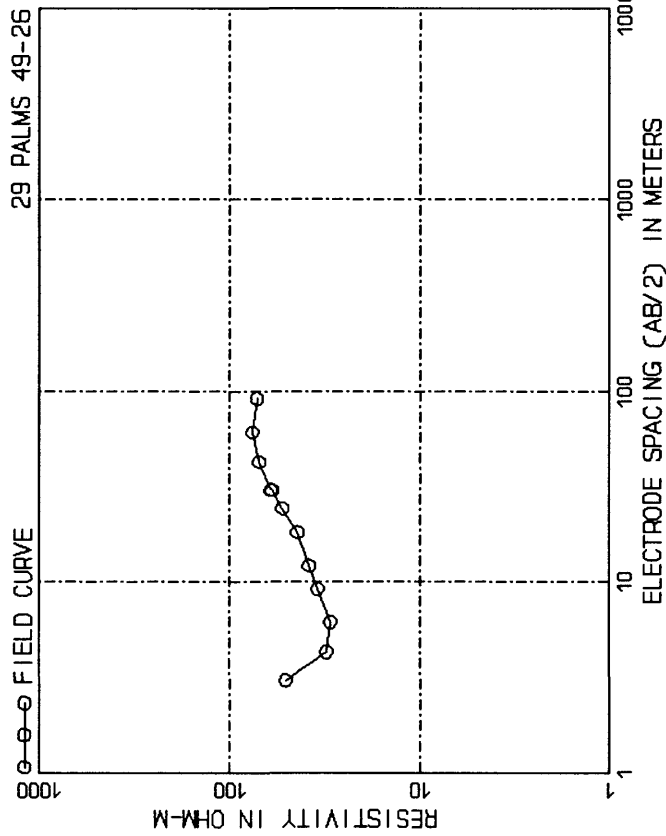
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	100.79	9.57 (	31.41)	182.79
3.03 (	9.93)	44.69	14.02 (	46.11)	174.83
4.44 (	14.58)	54.89	20.63 (	67.67)	108.96
6.52 (	21.40)	114.05	30.28 (	99.33)	62.19
			99999.00 (	99999.00)	52.40



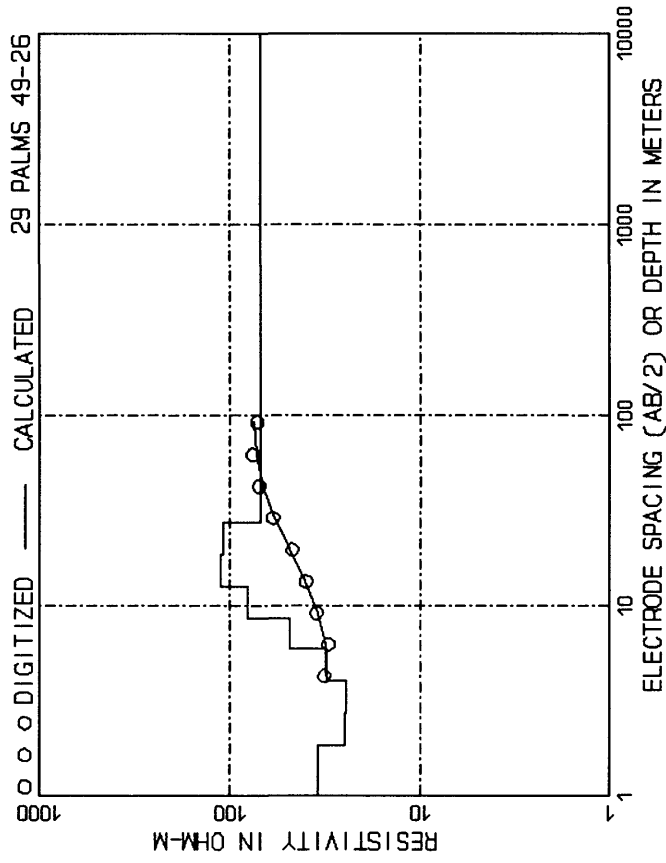
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	36.00	24.38 (	80.00)	91.50
4.27 (	14.00)	33.60	30.48 (	100.00)	98.00
6.10 (	20.00)	38.00	30.48 (	100.00)	91.00
9.14 (	30.00)	53.00	42.67 (	140.00)	96.50
12.19 (	40.00)	64.00	60.96 (	200.00)	104.00
18.29 (	60.00)	83.00	91.44 (	300.00)	92.00



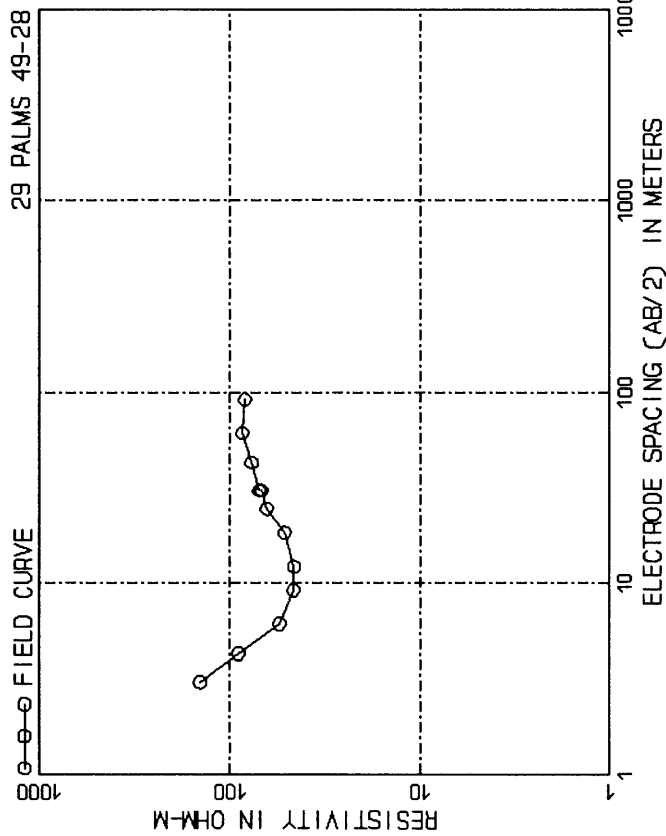
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	23.38	8.62 (	28.27)	125.14
2.72 (	8.94)	31.02	12.85 (	41.50)	153.16
5.00 (	13.12)	52.81	18.56 (	60.91)	158.56
5.87 (	19.26)	87.42	27.23 (	89.40)	128.52
			99999.00 (	99999.00)	76.75



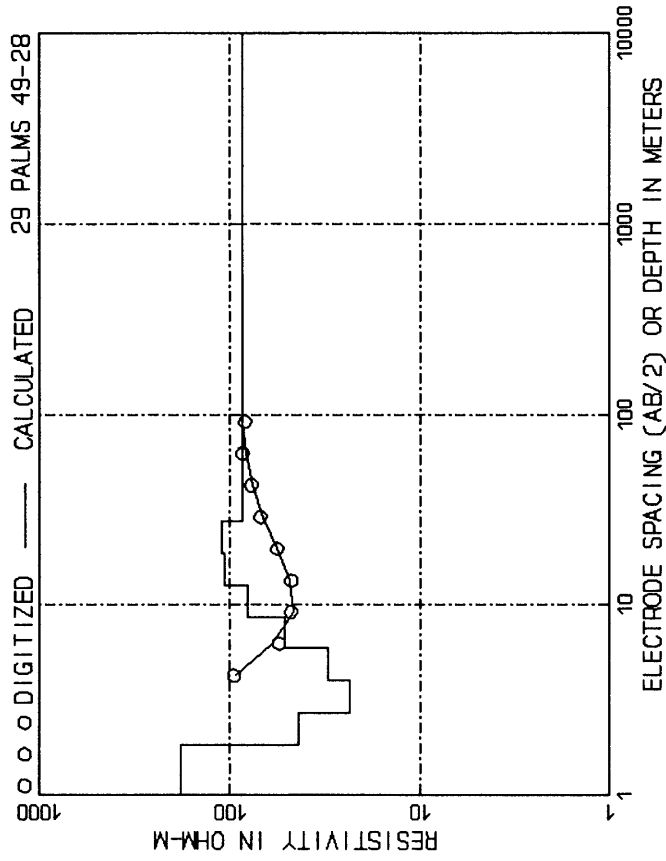
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	51.00	24.38 (	80.00)	53.00
4.27 (	14.00)	31.00	30.48 (	100.00)	60.00
6.10 (	20.00)	29.50	30.48 (	100.00)	60.00
9.14 (	30.00)	34.50	42.67 (	140.00)	70.00
12.19 (	40.00)	38.30	60.96 (	200.00)	76.00
18.29 (	60.00)	44.00	91.44 (	300.00)	72.00



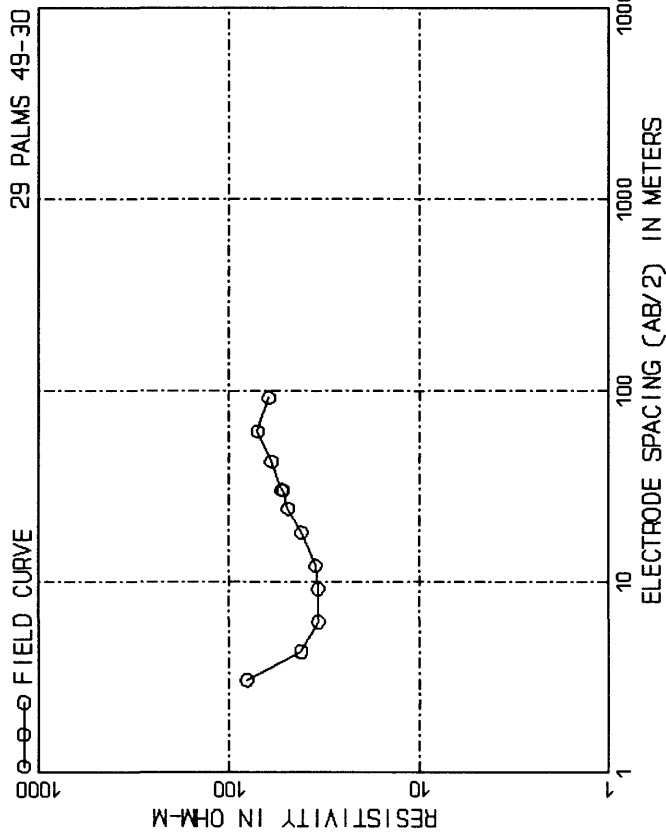
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	34.47	8.62 (	28.27)	48.59
2.72 (	8.94)	24.70	12.85 (	41.50)	81.05
5.00 (	13.12)	24.82	18.82 (	60.91)	112.14
5.87 (	19.26)	30.94	27.23 (	89.40)	108.41
			99999.00 (	99999.00)	69.73



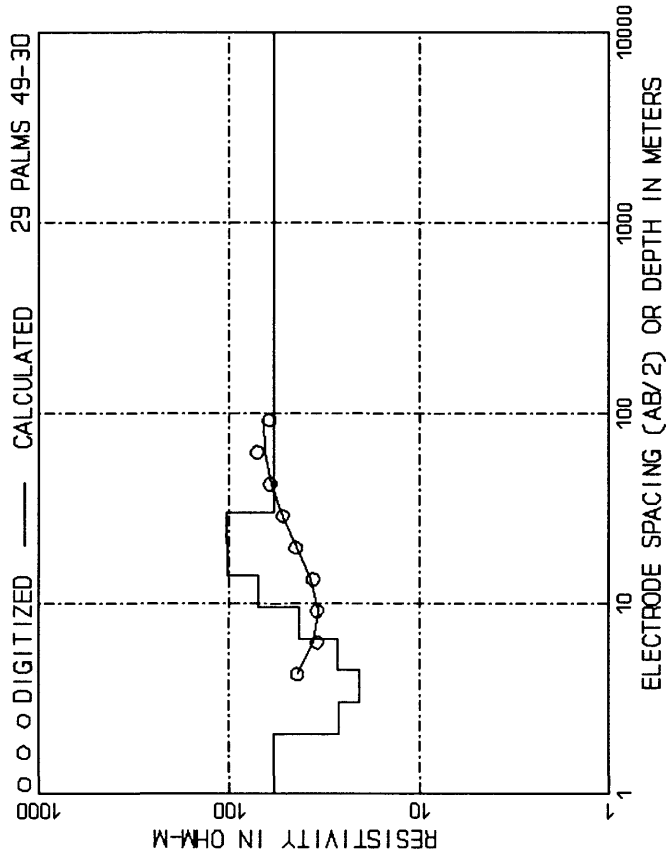
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	143.00	24.38 (	80.00)	64.00
4.27 (	14.00)	90.00	30.48 (	100.00)	68.00
6.10 (	20.00)	55.00	30.48 (	100.00)	70.00
9.14 (	30.00)	46.50	42.67 (	140.00)	77.00
12.19 (	40.00)	46.00	60.96 (	200.00)	86.00
18.29 (	60.00)	51.50	91.44 (	300.00)	83.50



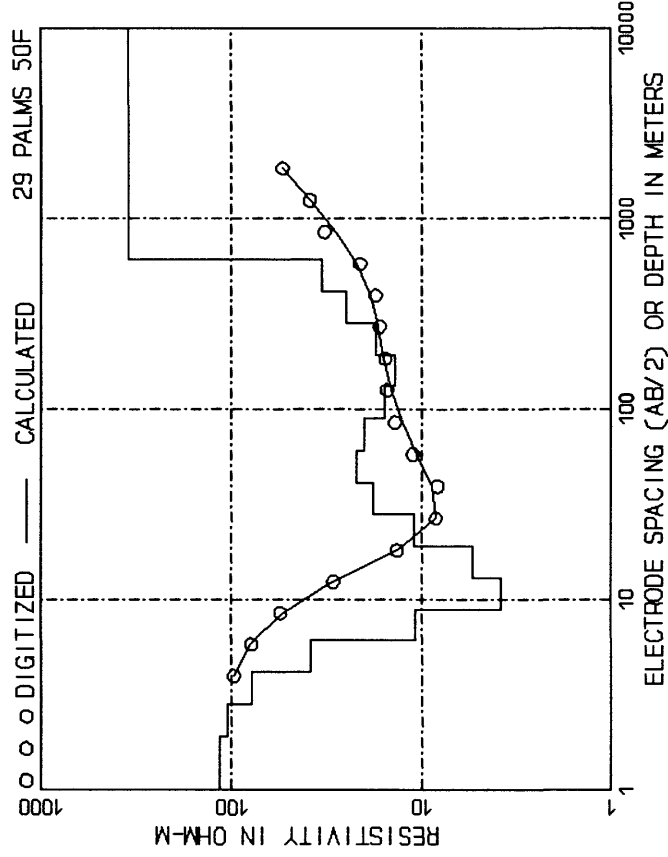
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.86 (	6.09)	182.26	8.62 (	28.27)	51.30
2.72 (	8.94)	43.55	12.65 (	41.50)	81.09
4.00 (	13.12)	23.39	18.56 (	60.91)	107.36
5.87 (	19.26)	30.68	27.25 (	89.40)	109.71
			99999.00 (	99999.00)	86.17



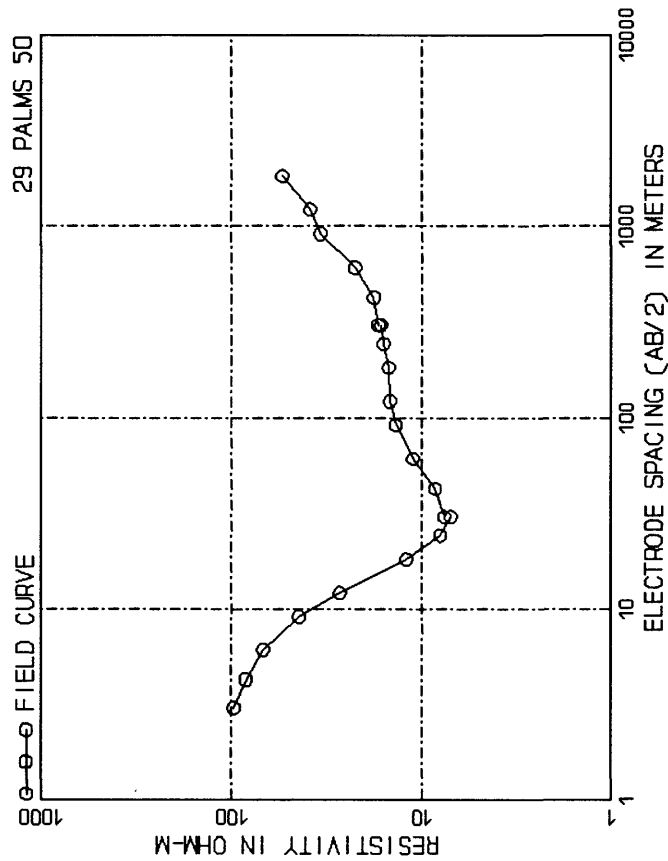
AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	81.00	24.38 (	80.00)	49.00
4.27 (	14.00)	42.00	30.48 (	100.00)	52.00
6.10 (	20.00)	34.00	30.48 (	100.00)	53.00
9.14 (	30.00)	34.00	42.67 (	140.00)	60.00
12.19 (	40.00)	35.00	60.96 (	200.00)	71.00
18.29 (	60.00)	41.50	91.44 (	300.00)	62.00



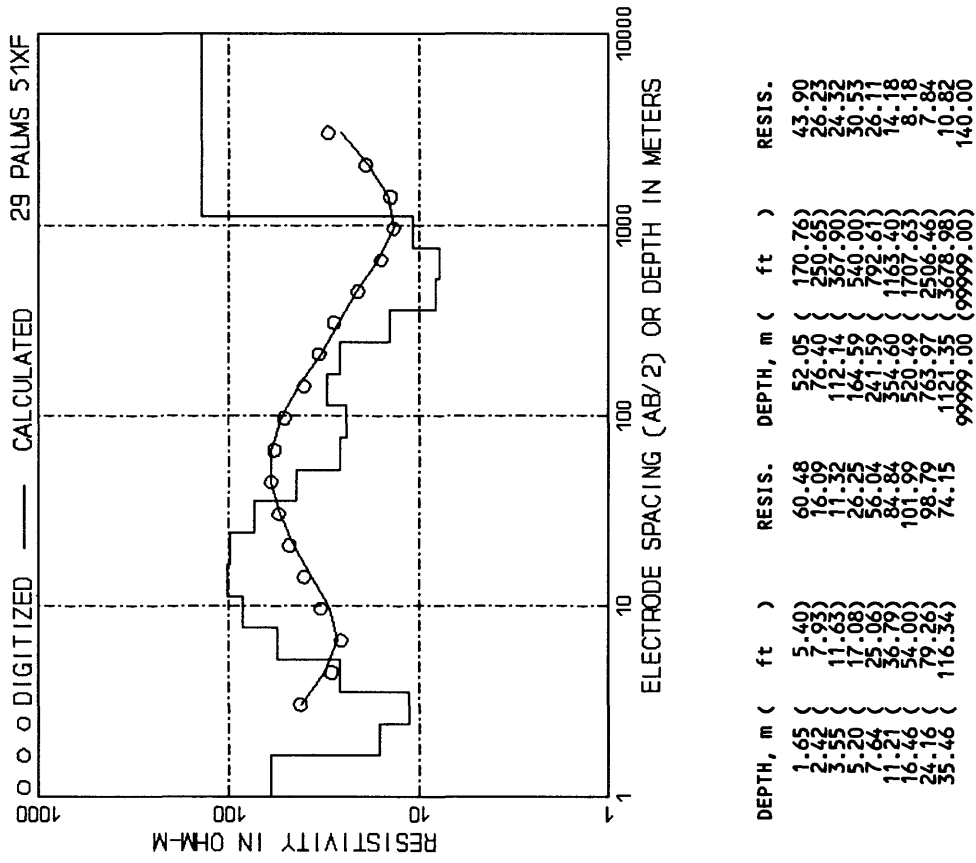
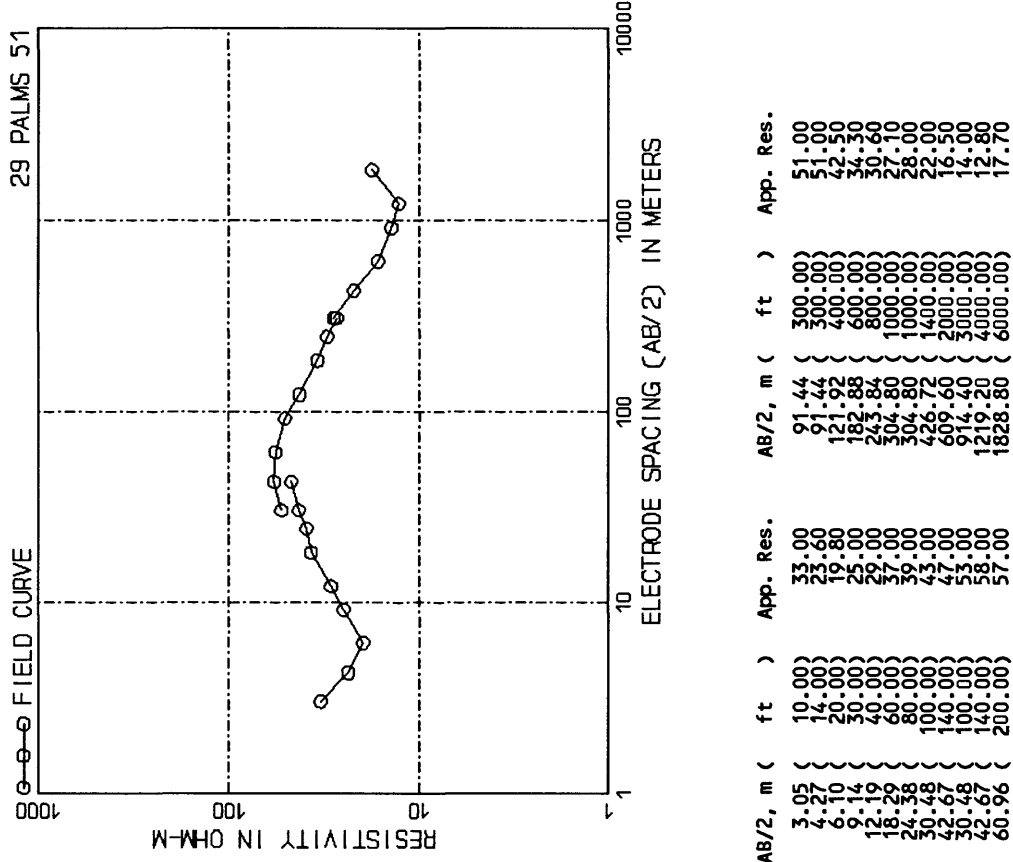
DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
2.06 (	6.77)	58.27	9.57 (	31.41)	43.00
3.03 (	9.93)	26.59	14.05 (	46.11)	70.11
4.44 (	14.58)	20.82	20.63 (	67.67)	101.86
6.52 (	21.40)	27.03	30.28 (	99.33)	103.18
			99999.00 (	99999.00)	58.67

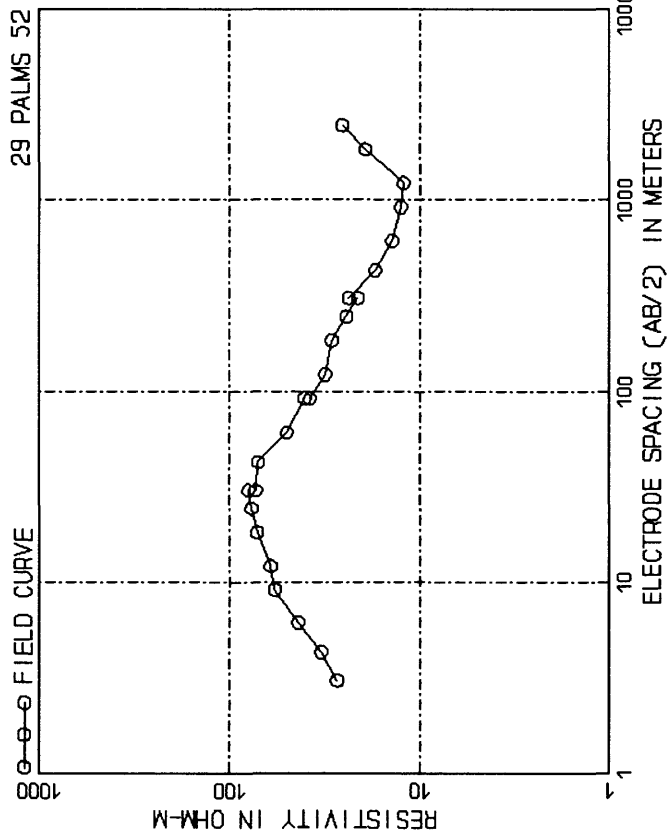


DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.91 (	6.28)	115.46	41.25 (	135.35)	18.04
2.81 (	9.22)	104.70	60.55 (	198.66)	21.85
4.13 (	13.53)	77.95	88.88 (	291.60)	19.98
6.06 (	19.87)	38.49	130.46 (	428.01)	15.59
8.89 (	29.16)	10.81	191.49 (	628.23)	13.53
13.05 (	42.82)	3.38	281.06 (	922.12)	17.52
19.15 (	62.82)	5.38	412.54 (	1353.49)	24.95
28.11 (	92.21)	11.03	605.53 (	1986.65)	33.35
			99999.00 (	99999.00)	350.00

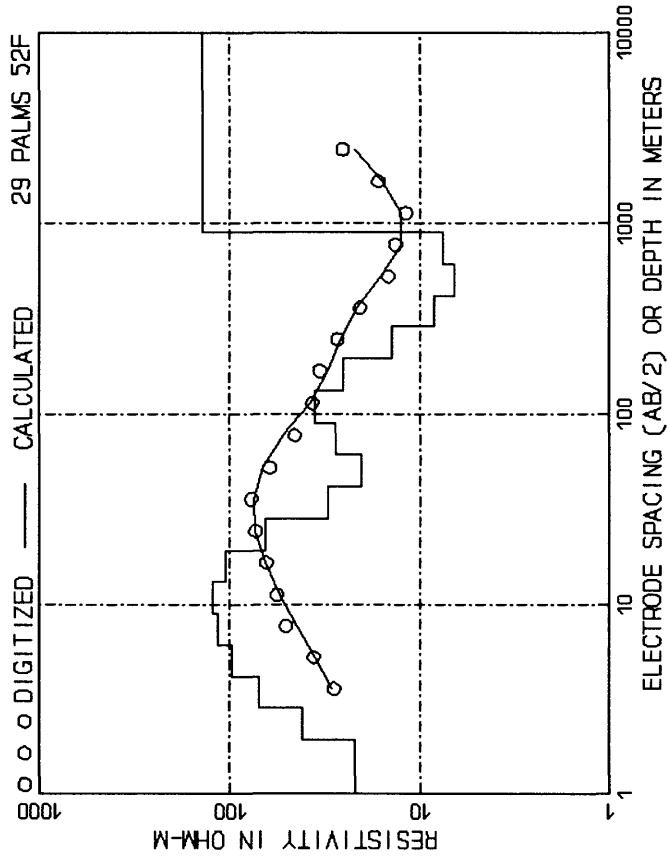


AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	97.00	91.44 (	300.00)	13.70
4.27 (	14.00)	84.00	91.44 (	300.00)	13.70
6.10 (	20.00)	68.00	121.92 (	400.00)	12.70
9.14 (	30.00)	44.00	182.88 (	600.00)	15.00
12.19 (	40.00)	27.00	243.84 (	800.00)	15.90
18.29 (	60.00)	12.00	304.80 (	1000.00)	16.40
24.38 (	80.00)	8.00	304.80 (	1000.00)	17.00
30.48 (	100.00)	7.60	426.72 (	1400.00)	17.90
42.67 (	140.00)	8.50	609.60 (	2000.00)	22.50
60.96 (	200.00)	11.10	914.40 (	3000.00)	34.00
			1219.20 (	4000.00)	38.50
			1828.80 (	6000.00)	54.00





AB/2, m (	ft)	App. Res.	AB/2, m (	ft)	App. Res.
3.05 (	10.00)	27.20	91.44 (	300.00)	38.00
4.27 (	14.00)	31.50	121.92 (	400.00)	31.50
6.10 (	20.00)	43.50	182.88 (	600.00)	29.00
9.14 (	30.00)	58.00	243.84 (	800.00)	24.40
12.19 (	40.00)	61.00	304.80 (	1000.00)	21.20
18.29 (	60.00)	72.00	304.80 (	1000.00)	23.60
24.38 (	80.00)	77.00	426.72 (	1400.00)	17.20
30.48 (	100.00)	80.00	609.60 (	2000.00)	14.00
30.48 (	100.00)	73.00	914.40 (	3000.00)	12.60
42.67 (	140.00)	71.00	1219.20 (	4000.00)	12.20
60.96 (	200.00)	50.00	1828.80 (	6000.00)	19.30
91.44 (	300.00)	40.50	2438.40 (	8000.00)	25.50



DEPTH, m (	ft)	RESIS.	DEPTH, m (	ft)	RESIS.
1.93 (	6.34)	21.84	61.12 (	200.52)	20.29
2.84 (	9.31)	41.43	89.71 (	292.36)	27.93
4.16 (	13.66)	70.18	151.67 (	492.00)	55.68
6.11 (	20.05)	97.30	193.27 (	634.09)	25.42
8.97 (	29.43)	116.13	283.68 (	930.72)	13.95
13.17 (	43.20)	122.82	416.39 (	1366.10)	8.46
19.33 (	63.41)	105.52	611.17 (	2005.17)	6.54
28.37 (	93.07)	64.61	897.08 (	2943.18)	7.51
41.64 (	136.61)	50.72	9999.00 (	9999.00)	140.00