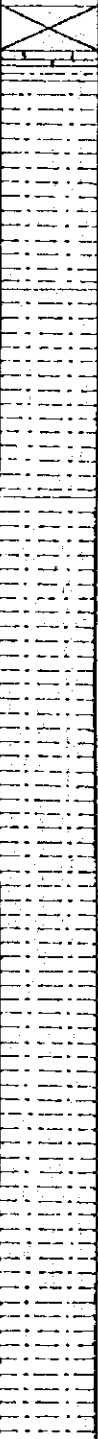


A. 4. Test Borehole Log

Figure A.4.1. Manyogaseka

B/H No : JA-1		Location : Manyogaseka, Kiganda, Mubende			
B/H Depth : 97.1 (m)		B/H Dia : / (mm)		Drilled dia : 200 / (mm)	
S.W.L. : dry (m)		Yield : (l/s)		Max. D/d : (m)	
Depth (m)		Geolog Log	Description	Logging Data	Borehole Structure
10	3.0		Top soil(sandy silt)grayish brown		
	3.5		with bluish green s. s. breccia		
	4.5		Quartz		
			Weathered schist micaceous gy-br		
20	19.0		Weathered schist, reddish brown partly yellowish brown, medium grained sandy sample, micaceous		
			Weathered schist, grey ~ brownish gray, fine grained sample		
30	33.0				
			Schist, including black fresh hard Qz, biotite, muscovite		
40					
50					
60					
70					
80					
90					
	97.1				
100					

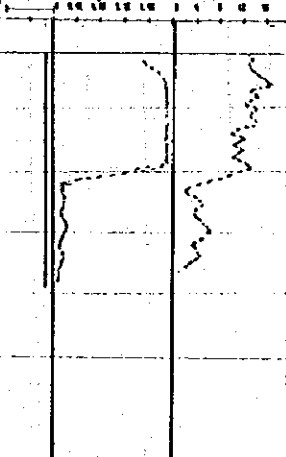
A. 4. Test Borehole Log

Figure A.4.2 Ss inde-1

B/H No : JA-2		Location : Ss inde, Lurainata kiboga		
B/H Depte : 19.0 (m)		B/H Dia : 140 / (mm)	Drilled dia : 270/200/150 (mm)	
S.W.L : 6.82 (m)		Yield : 1.5 (l/s)	Max D/d : 4.12 (m)	
Depth (m)	Geolog Log	Description	Logging Data	Borehole Structure
10	3.4	Top soil(sandy clay), reddish brown,		
		Weathered sandstone, yellowish brown		
	11.9	7.9 ~ moistured and wet brown clay with s. s. breccia		
20		Weathered sandstone, brown, coarse sand and breccia.		
	17.1	Water struck (75l/min)		
	18.5	Sandstone, medium grain, black, hard, fresh		
	22.9	Quartzite with sheared s. s., yellowish brown clay.		
30	27.65	Weathered sandstone, sheared and fissured, soft and clayey, 26.0m slickenside		
40				
50				
60				
70				
80				
90				
100				

A. 4. Test Borehole Log

Figure A.4.3. Kawawa

B/H No : JA-3		Location : Kagawa, Luvuvuata, Kiboga		
B/H Depth : 13.9 (m)		B/H Dia : 140 / (mm)	Drilled dia : 2510/212/150 (mm)	
S.V.L : 6.20 (m)		Yield : 0.17 (l/s)	Max. D/d : 3.63 (m)	
Depth (m)	Geolog Log	Description	Logging Data	Borehole Structure
10	8.0	Sandy clay, reddish brown, partly silty		
	13.0	Weathered sandstone, reddish brown ~brown with quartz grain, moistured and wet 12.0m-water struck (40l/min)		
	14.0	Sandstone, hard, fresh		
20	27.0	Sheared sandstone, brown, partly yellowish, 20.0m-22.0m clayey 22.0-26.0m pebble		
30				
40				
50				
60				
70				
80				
90				
100				

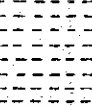
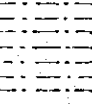
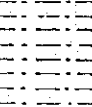
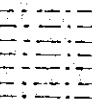
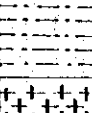
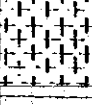
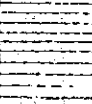
A. 4. Test Borehole Log

Figure A.4.4. Ssinde-2

B/H No: JA-7		Location: Ssinde, Luvuvu, Kiboga			
B/H Depth: 50.1 (m)		B/H Dia: 140 / 150 (mm)		Drilled dia: 270 / 150 (mm)	
S.W.L.: 5.75 (m)		Yield: 0.27 (l/s)		Max. D/d: 24.03 (m)	
Depth (m)	Geolog Log	Description	Logging Data		Borehole Structure
3.9		Top Soil, clayey fine brown			
9.8		Silty, laterite, yellowish-brown, little water at 6.1m			
10					
20.0		Sandstone, grey			
20.0		Water struck at 18.0m			
25.0		Shale, soft, grey			
30					
40		Weathered quartzite, grey black along fissures			
47.0					
50.1		Gneiss, hard			
50					
60					
70					
80					
90					
100					

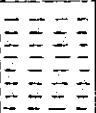
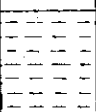
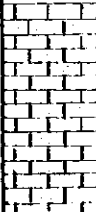
A. 4. Test Borehole Log

Figure A4.5. Kitebero

B/H No : JA-4		Location : Kitebere, Bulayunja, Kibende		
B/H Depth : 86.7 (m)		B/H Dia : / (mm)	Drilled dia : 270/212/150 (mm)	
S.W.L. : dry (m)		Yield : (l/s)	Max. D/d : (m)	
Depth (m)	Geolog Log	Description	Logging Data	Borehole Structure
2.0		Top soil, silty reddish-brown		
7.0		Laterite, sandy, red and soft		
10		Sand, fine grained cuttings, brown, Sandy with siliceous mateils grey-brown		
15.1				
20		Weathered sandstone with quartz grains, coarse greined, grey		
24.8				
30.2		Sandstone, coarse pinkish brown		
30				
40				
50		Schist, fine, massive, brown-grey		
60.4				
60		Gneiss, grey-black, hard		
70.8				
70		Phyllite, soft, grey		
80				
86.7				
90				
100				

A. 4. Test Borehole Log

Figure A4.6. Bekina

B/B No : JA-5		Location : Bekina, Butayunja, Mubende			
B/B Depth : 59.0 (m)		B/H Dia : 140 / (mm)		Drilled dia : 270/190/150 (mm)	
S.W.L : 21.38 (m)		Yield : 0.17 (l/s)		Max. D/d : 16.24 (m)	
Depth (m)		Geolog Log	Description	Logging Data	Borehole Structure
	6.0		Fine clayey reddish brown soil with some latelite		
10	14.0		Silt with clay, yellowish-brown, soft		
20			Fine grained phylitic shale, pink, soft		
30	33.0		Water struck at 30.0m (30l/min)		
40			Quartzite with fractures, white, with black shades along fractured faces, wet, hard		
50	50.0				
	53.0		Quartzite with shale, soft, yellow-black		
	60.0		Phyllite, very fine, yellowish brown, collapsed		
60			Granite, coarse, hard, black ~ grey		
70	71.0				
80					
90					
100					

A. 4. Test Borehole Log

Figure A.4.7. Namuyeso-1

R/H No : JA-6		Location : Namuyeso, Businbi, Mubende			
B/H Depth : 77.5 (m)		B/H Dia : / (mm)		Drilled dia : 270/212/150 (mm)	
S.W.L : dry (m)		Yield : (l/s)		Max. D/d : (m)	
Depth (m)		Geolog Log	Description	Logging Data	Borehole Structure
10	5.0		Top soil red-brown		
	12.0		Top soil with sandstone pebbels		
20	21.0		Sandstone with quartz grain, silty, brown		
	30.5		Crystalline sandstone with quartz medium grains, grey-brown		
40	41.0		Sandstone, coarse, hard		
	66.0		Conglomerate, hard, grey-brown		
70	77.5		Schist, fine, hard, grey		
80					
90					
100					

A. 4. Test Borehole Log

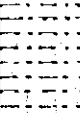
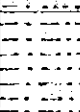
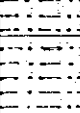
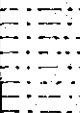
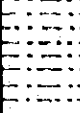
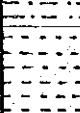
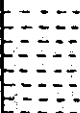
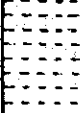
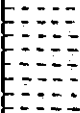
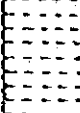
Figure A.4.8 Seeta

B/H No: JA-8		Location: Seeta, Nangabo, Mpigi	
B/H Depth:	50.1 (m)	B/H Dia:	140/150 (mm)
S.W.L.:	3.90 (m)	Yield:	2.0 (l/s)
		Drilled dia:	270/150 (mm)
		Max. D/d:	6.22 (m)

Depth (m)	Geolog Log	Description	Logging Data	Borehole Structure
5.0	X	Top soil with sandstone reddish brown		
10		Micaceous sandstone, brown		
15.0				
20		Quartzite with very fine clayey material, gray		
25.0				
30		Quartzite, hard, little water struck at 27m, more water at 33m (yield ~2.5 m ³ /hr)		
40				
44.0				
47.0	XXXXX	Granite, water struck at 45m		
50.1	XXXXX	Weathered quartzite		
50				
60				
70				
80				
90				
100				

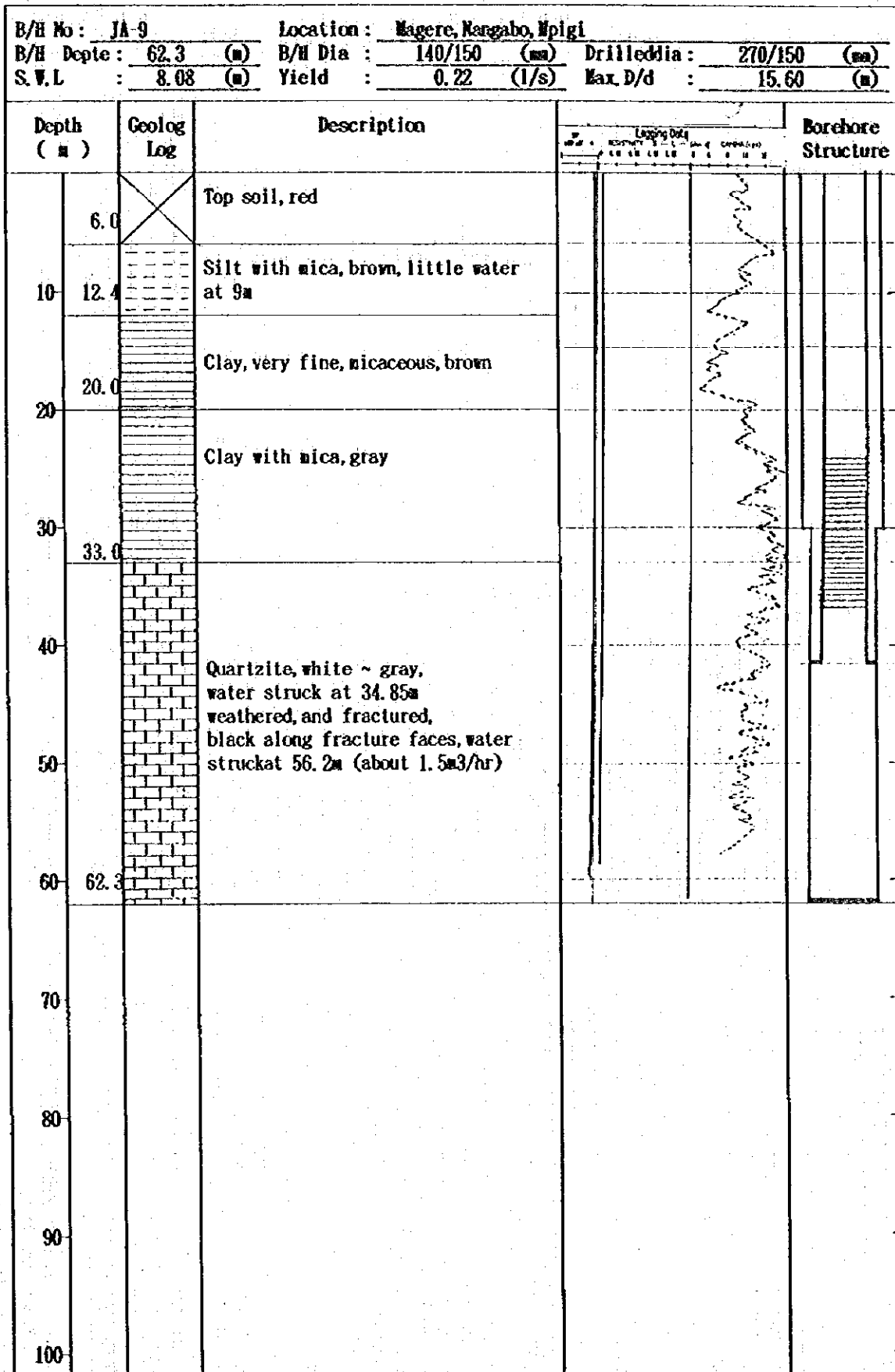
A. 4. Test Borehole Log

Figure A.4.10. Nanyeso-2

B/H No : JA-10		Location : Nanyeso, Busimbi, Mubende			
B/H Depth : 98.2 (m)		B/H Dia : / (mm)		Drilled dia : 270/150 (mm)	
S.W.L : dry (m)		Yield : (l/s)		Max. D/d : (m)	
Depth (m)	Geolog Log	Description	Logging Data	Borehole Structure	
4.0		Top soil, red lateritic and clayey			
10		schist, fine gnysses, yellowish ~brown			
13.0		Schist, brown ~ grey, hard			
20		Schist, Very fine, pink			
22.0		Shale, grey~brown, hard			
30					
40					
44.0		Sandstone with silt grey			
50		Partly schist, hard, grey, very fine			
60					
70					
80					
90					
98.2					
100					

A. 4. Test Borehole Log

Figure A.4.9. Magere



A.5 Pumping Test Data Sheet

A.5.1 Data Sheet of Pumping Test (Ssinder-1)

B/H No:JA-2 Location:Ssinder-1

Status:Step D.D. Test Pump Setting:13.0m

Screen:11-17m Static W/L: 9.82m

Time (min)	1st Stage (Q=2.3m ³ /hr)	2nd Stage (Q=3.0m ³ /hr)	3rd Stage (Q=4.2m ³ /hr)	4th Stage (Q=5.4m ³ /hr)
	Water Level (m)	Water Level (m)	Water Level (m)	Water Level (m)
0	7.86	8.28	8.42	8.54
0.5	7.82	8.64	8.78	8.90
1	7.93	8.77	8.91	9.03
1.5	7.96	8.81	8.95	9.07
2	7.99	8.84	8.98	9.10
2.5	8.03	8.86	9.00	9.12
3	8.04	8.87	9.01	9.13
3.5	8.05	8.88	9.02	9.14
4	8.07	8.89	9.03	9.15
4.5	8.08	8.89	9.03	9.15
5	8.09	8.90	9.04	9.16
6	8.11	8.90	9.04	9.16
7	8.13	8.91	9.05	9.17
8	8.14	8.92	9.06	9.18
9	8.15	8.92	9.06	9.18
10	8.16	8.93	9.07	9.19
11	8.16	8.93	9.07	9.19
12	8.17	8.93	9.07	9.19
13	8.17	8.93	9.07	9.19
14	8.18	8.93	9.07	9.19
15	8.18	8.94	9.08	9.20
20	8.19	8.96	9.10	9.22
25	8.20	8.97	9.11	9.23
30	8.21	8.98	9.12	9.24
45	8.24	9.00	9.14	9.26
60	8.25	9.01	9.15	9.27
75	8.27	9.03	9.17	9.29
90	8.28	9.04	9.18	9.30
105	8.27	9.04	9.18	9.30
120	8.28	9.04	9.18	9.31

B/H No:JA-2

Status:Constant Disc.

Depth:28.0m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	6.90	0.00	135	11.40	4.50
0.5	6.91	0.01	150	11.40	4.50
1	6.92	0.02	165	11.40	4.50
1.5	6.93	0.03	180	11.40	4.50
2	6.94	0.04	210	11.40	4.50
2.5	6.95	0.05	240	11.40	4.50
3	6.96	0.06	270	11.40	4.50
3.5	6.97	0.07	300	11.40	4.50
4	6.98	0.08	330	11.40	4.50
4.5	6.99	0.09	360	11.40	4.50
5	7.00	0.10	390	11.40	4.50
6	7.01	0.11	420	11.40	4.50
7	7.02	0.12	450	11.40	4.50
8	7.03	0.13	480	11.40	4.50
9	7.04	0.14	510	11.40	4.50
10	7.05	0.15	540	11.40	4.50
11	7.06	0.16	570	11.40	4.50
12	7.07	0.17	600	11.40	4.50
13	7.08	0.18	630	11.40	4.50
14	7.09	0.19	660	11.40	4.50
15	7.10	0.20	690	11.40	4.50
20	7.12	0.22	720	11.40	4.50
25	7.14	0.24	750	11.40	4.50
30	7.16	0.26	780	11.40	4.50
45	7.21	0.31	810	11.40	4.50
60	7.27	0.37	840	11.40	4.50
75	7.33	0.43	870	11.40	4.50
90	7.39	0.49	900	11.40	4.50
105	7.45	0.55	930	11.40	4.50
120	7.51	0.61	960	11.40	4.50

B/H No:JA-2

Status:Constant Disc.

Depth:28.0m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	6.90	0.00	135	11.40	4.50
0.5	6.91	0.01	150	11.40	4.50
1	6.92	0.02	165	11.40	4.50
1.5	6.93	0.03	180	11.40	4.50
2	6.94	0.04	210	11.40	4.50
2.5	6.95	0.05	240	11.40	4.50
3	6.96	0.06	270	11.40	4.50
3.5	6.97	0.07	300	11.40	4.50
4	6.98	0.08	330	11.40	4.50
4.5	6.99	0.09	360	11.40	4.50
5	7.00	0.10	390	11.40	4.50
6	7.01	0.11	420	11.40	4.50
7	7.02	0.12	450	11.40	4.50
8	7.03	0.13	480	11.40	4.50
9	7.04	0.14	510	11.40	4.50
10	7.05	0.15	540	11.40	4.50
11	7.06	0.16	570	11.40	4.50
12	7.07	0.17	600	11.40	4.50
13	7.08	0.18	630	11.40	4.50
14	7.09	0.19	660	11.40	4.50
15	7.10	0.20	690	11.40	4.50
20	7.12	0.22	720	11.40	4.50
25	7.14	0.24	750	11.40	4.50
30	7.16	0.26	780	11.40	4.50
45	7.21	0.31	810	11.40	4.50
60	7.27	0.37	840	11.40	4.50
75	7.33	0.43	870	11.40	4.50
90	7.39	0.49	900	11.40	4.50
105	7.45	0.55	930	11.40	4.50
120	7.51	0.61	960	11.40	4.50

B/H No:JA-2

Status:Recovery Test

Depth:28.0m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	6.90	0.00	135	11.40	4.50
0.5	6.91	0.01	150	11.40	4.50
1	6.92	0.02	165	11.40	4.50
1.5	6.93	0.03	180	11.40	4.50
2	6.94	0.04	210	11.40	4.50
2.5	6.95	0.05	240	11.40	4.50
3	6.96	0.06	270	11.40	4.50
3.5	6.97	0.07	300	11.40	4.50
4	6.98	0.08	330	11.40	4.50
4.5	6.99	0.09	360	11.40	4.50
5	7.00	0.10	390	11.40	4.50
6	7.01	0.11	420	11.40	4.50
7	7.02	0.12	450	11.40	4.50
8	7.03	0.13	480	11.40	4.50
9	7.04	0.14	510	11.40	4.50
10	7.05	0.15	540	11.40	4.50
11	7.06	0.16	570	11.40	4.50
12	7.07	0.17	600	11.40	4.50
13	7.08	0.18	630	11.40	4.50
14	7.09	0.19	660	11.40	4.50
15	7.10	0.20	690	11.40	4.50
20	7.12	0.22	720	11.40	4.50
25	7.14	0.24	750	11.40	4.50
30	7.16	0.26	780	11.40	4.50
45	7.21	0.31	810	11.40	4.50
60	7.27	0.37	840	11.40	4.50
75	7.33	0.43	870	11.40	4.50
90	7.39	0.49	900	11.40	4.50
105	7.45	0.55	930	11.40	4.50
120	7.51	0.61	960	11.40	4.50

Project : water supply
Organization : jica/dwd

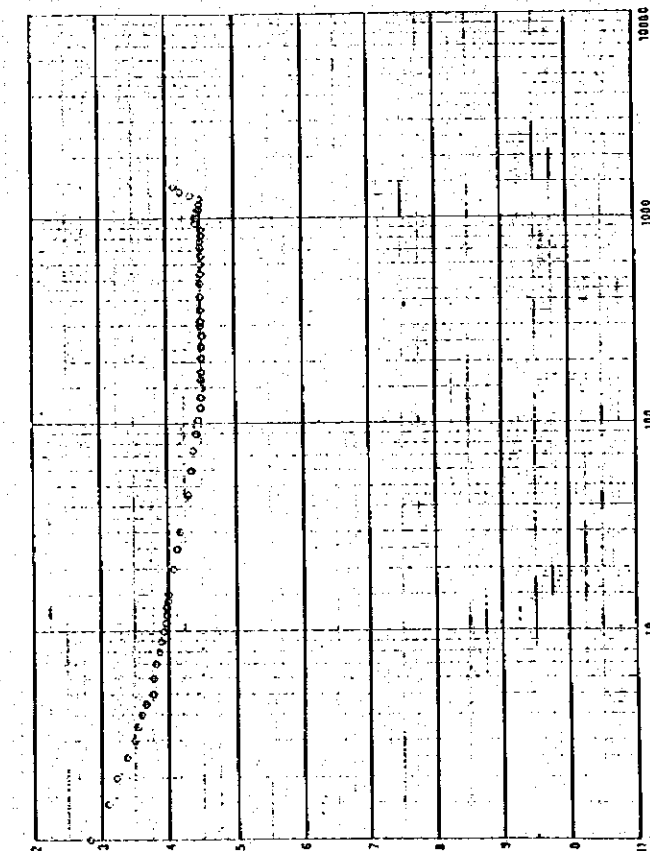
Test : Ssinde-1

Constant Pumping Rate = 129.6 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

Transmissivity = 68.90143 [m2/day]

Standard Deviation = 0.1932 [m]

Number of Points = 52 of 52



Project : water supply
Organization : jica/dwd

Test : a:Ssinde-R

Constant Pumping Rate = 129.6 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

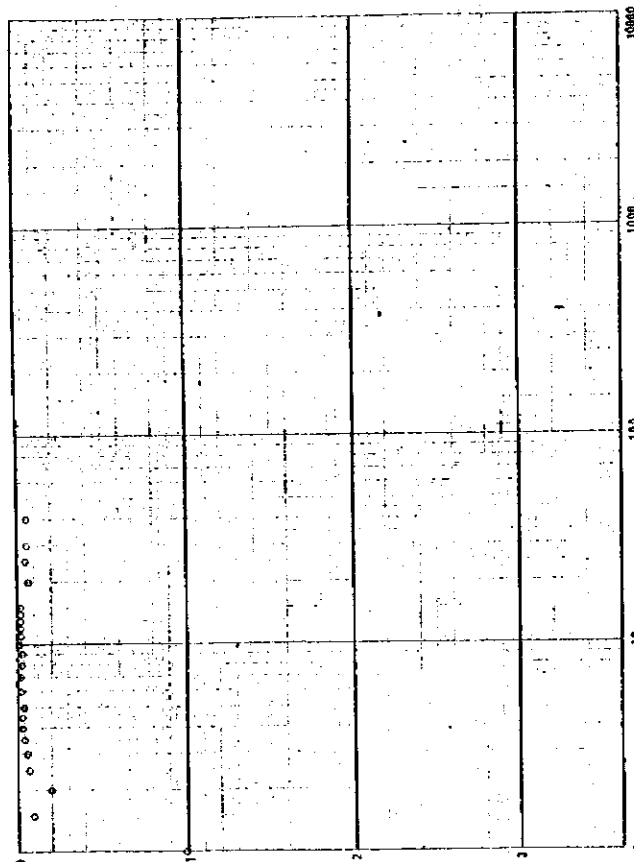
Transmissivity = 347.80676 [m2/day]

Standard Deviation = 0.3817 [m]

A0 = 0.337266E+01

A1 = 0.444626E+01

Number of Points = 24 of 24



A.5.3 Data Sheet of Pumping Test (Kawawa)

B/H No:JA-3 Location:Kawawa
 Status:Step D.D. Test Pump Setting:12.0m
 Screen:10-13m

Time (min)	1st Stage (Q=1.6m ³ /hr)		2nd Stage (Q=3.2m ³ /hr)		3rd Stage (Q=4.8m ³ /hr)		4th Stage (Q=6.4m ³ /hr)	
	Water Level (m)	Draw- Down (m)	Water Level (m)	Draw- Down (m)	Water Level (m)	Draw- Down (m)	Water Level (m)	Draw- Down (m)
0	6.14	0.00						
0.5	7.21	1.07						
1	8.10	1.96						
1.5	9.15	3.01						
2	10.06	3.92						
2.5	11.08	4.94						
3	12.00	5.86						
3.5								
4								
4.5								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
20								
25								
30								
45								
60								
75								
90								
105								
120								

B/H No:JA-3 Location:Kawawa
 Status:Constant Diso. Pump Setting:12.0m
 B/H Depth:13.9m Screen:10-13m

Time (min)	Pumping Rate:0.6m ³ /hr, 0.171/sec		Time		Water		Draw- Down (m)	
	Level (m)	Level (m)	Level (m)	Level (m)	Level (m)	Level (m)	Level (m)	Level (m)
0	6.20	0.00	135	9.79	3.59			
0.5	6.80	0.60	150	9.79	3.59			
1	7.10	0.90	165	9.79	3.59			
1.5	7.38	1.18	180	9.79	3.59			
2	7.70	1.50	270	9.80	3.60			
2.5	8.04	1.84	300	9.80	3.60			
3	8.14	1.94	330	9.80	3.60			
3.5	8.20	2.00	360	9.81	3.61			
4	8.23	2.03	420	9.81	3.61			
4.5	8.25	2.05	480	9.81	3.61			
5	8.27	2.07	540	9.81	3.61			
6	8.29	2.09	600	9.80	3.60			
7	8.40	2.20	660	9.81	3.61			
8	8.44	2.24	720	9.82	3.62			
9	8.51	2.31	780	9.83	3.63			
10	8.57	2.37	840	9.84	3.64			
11	8.63	2.43	900	9.86	3.66			
12	8.67	2.47	960	9.86	3.66			
13	8.72	2.52	1020	9.86	3.66			
14	8.79	2.59	1080	9.87	3.67			
15	8.85	2.65	1140	9.87	3.67			
20	9.03	2.83	1200	9.87	3.67			
25	9.18	2.98	1260	9.86	3.66			
30	9.36	3.16	1320	9.87	3.67			
45	9.50	3.30	1380	9.85	3.65			
60	9.61	3.41	1440	9.83	3.63			
75	9.62	3.42						
90	9.79	3.59						
105	9.79	3.59						
120	9.79	3.59						

B/H No:JA-3 Location:Kawawa
 Status:Recovery Test
 B/H Depth:13.9m Discharge:0.6m³/hr, 0.171/sec

Time (min)	Time		Time		Time		Time	
	Accum. Water Level (m)	Draw-Down (m)	Accum. Water Level (m)	Draw-Down (m)	Accum. Water Level (m)	Draw-Down (m)	Accum. Water Level (m)	Draw-Down (m)
0	1440.5	9.83	3.63	135	1571			
0.5	1440.5	9.12	2.92	150	1586			
1	1441	8.30	2.10	165	1601			
1.5	1441.5	7.90	1.70	180	1616			
2	1442	7.56	1.36	210	1646			
2.5	1442.5	7.30	1.10	240	1676			
3	1446	7.08	0.88	270	1706			
3.5	1446.5	6.87	0.67	300	1736			
4	1460	6.70	0.50	330	1766			
4.5	1460.5	6.57	0.37	360	1796			
5	1461	6.46	0.26	420	1859			
6	1462	6.30	0.13	480	1919			
7	1463	6.28	0.06	540	1979			
8	1464	6.24	0.04	600	2039			
9	1465	6.23	0.03	660	2099			
10	1466	6.22	0.02	720	2159			
11	1467	6.21	0.01	780	2219			
12	1468	6.21	0.01	840	2279			
13	1469	6.21	0.01	900	2339			
14	1460	6.21	0.01	960	2389			
15	1461	6.20	0.00	1020	2449			
20	1466			1080	2509			
25	1471			1140	2569			
30	1476			1200	2629			
45	1481			1260	2689			
60	1490			1320	2749			
75	1511			1380	2809			
90	1525			1440	2869			
105	1541			1500	2929			
120	1556			1560	2989			

Project : water supply
Organization : jica/dwd

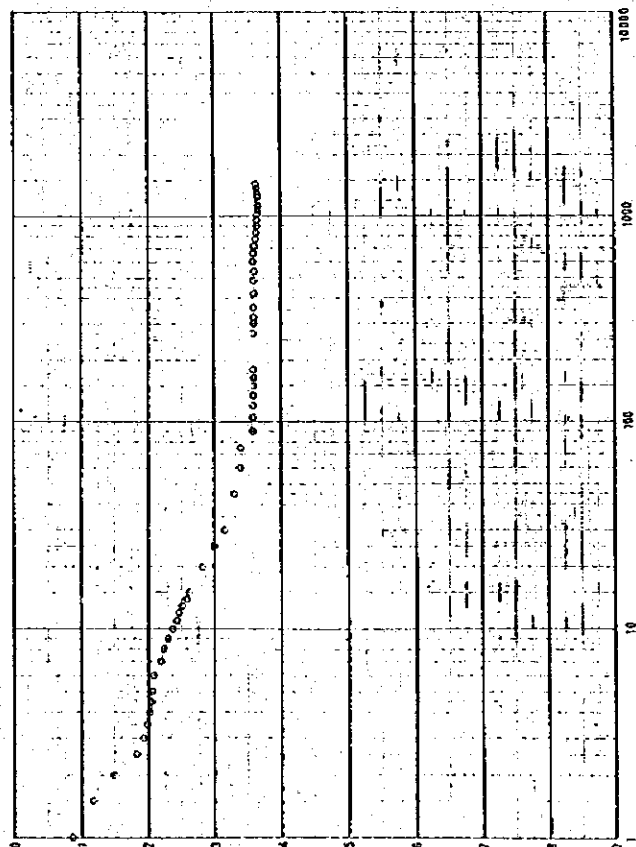
Test : Kawawa

Constant Pumping Rate = 14.4 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

Transmissivity = 3.40587 [m2/day]

Standard Deviation = 0.2842 [m]

Number of Points = 55 of 55



Project : water supply
Organization : jica/dwd

Test : a:Kawawa-R

Constant Pumping Rate = 14.4 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

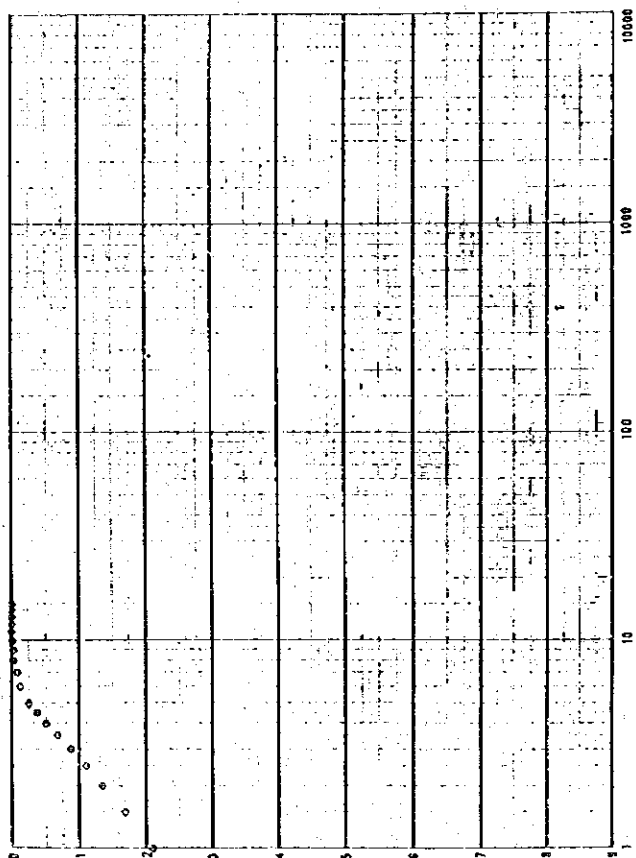
Transmissivity = 10.71798 [m2/day]

Standard Deviation = 0.7173 [m]

A0 = 0.337266E+01

A1 = 0.444626E+01

Number of Points = 20 of 20



A.6.4 Data Sheet of Pumping Test (Bakina-1)

B/H No: JA-5
 Status: Step D.D. Test
 Screen: 29.5-41.5m

Location: Bakina
 Pump Setting: 40.0m
 B/H Depth: 59.0m

Time (min)	1st Stage (m)	2nd Stage (m)	3rd Stage (m)	4th Stage (m)
0	20.85	0.00		
0.5	24.60	3.71		
1	26.40	5.51		
1.5	29.10	8.21		
2	30.40	9.51		
2.5	32.00	11.11		
3	33.23	12.34		
3.5	34.37	13.48		
4	35.38	14.49		
4.5	36.54	15.66		
5	37.80	16.91		
6	38.50	17.61		
7	39.41	18.52		
8	39.99	19.10		
9				
10				
11				
12				
13				
14				
15				
20				
25				
30				
45				
60				
75				
90				
105				
120				

B/H No: JA-5
 Status: Constant Discharge
 B/H Depth: 59.0m

Location: Bakina
 Pump Setting: 40.0m
 Screen: 29.5-41.5m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	21.89	0.00	135	32.28	10.39
0.5	22.80	0.91	150	32.40	10.51
1	23.17	1.28	165	32.51	10.62
1.5	23.28	1.39	180	32.57	10.68
2	23.45	1.56	210	32.60	10.71
2.5	23.65	1.76	240	32.78	10.89
3	23.80	1.91	270	33.00	11.11
3.5	23.98	2.09	300	33.41	11.52
4	24.11	2.22	320	33.50	11.61
4.5	24.24	2.35	360	33.78	11.89
5	24.41	2.52	420	33.92	12.03
6	24.65	2.76	480	34.45	12.56
7	24.91	3.02	540	35.00	13.11
8	25.13	3.24	600	35.22	13.33
9	25.31	3.42	660	35.31	13.42
10	25.62	3.80	720	35.47	13.58
11	25.69	3.80	780	35.77	13.88
12	25.86	3.99	840	35.89	14.00
13	26.02	4.13	900	36.00	14.11
14	26.19	4.30	960	36.08	14.19
15	26.35	4.46	1020	36.18	14.29
20	27.00	5.11	1080	36.22	14.30
25	27.54	5.65	1140	36.22	14.33
30	28.00	6.11	1200	36.21	14.32
45	29.45	7.56	1260	36.37	14.43
60	30.51	8.62	1320	36.44	14.55
75	31.60	9.71	1380	36.78	14.89
90	31.75	9.86	1440	37.00	15.11
105	31.99	10.10			
120	32.21	10.32			

B/H No: JA-5
 Status: Recovery Test
 B/H Depth: 59.0m

Location: Bakina
 Pump Setting: 40.0m
 Screen: 29.5-41.5m

Time (min)	Accum. Water Level (m)	Draw-Down (m)	Time (min)	Accum. Water Level (m)	Draw-Down (m)
0	1440	37.00	15.11	135	1571
0.5	1440.5	36.50	13.71	150	1586
1	1441	34.00	12.11	165	1601
1.5	1441.5	33.93	12.04	180	1616
2	1442	33.85	11.96	210	1646
2.5	1442.5	33.75	11.86	240	1676
3	1446	33.63	11.74	270	1706
3.5	1446.5	33.53	11.64	300	1736
4	1450	33.42	11.53	330	1766
4.5	1450.5	33.33	11.44	360	1796
5	1451	33.24	11.35	420	1859
6	1452	33.10	11.21	480	1919
7	1453	32.98	11.09	540	1979
8	1454	32.82	10.93	600	2039
9	1455	32.60	10.71	660	2099
10	1456	32.40	10.51	720	2159
11	1457	32.20	10.31	780	2219
12	1458	32.00	10.11	840	2279
13	1459	31.81	9.92	900	2339
14	1460	31.64	9.75	960	2399
15	1461	31.48	9.59	1020	2449
20	1466	30.74	8.85	1080	2509
25	1471	30.04	8.15	1140	2569
30	1476	29.37	7.48	1200	2629
45	1481	27.90	6.01	1260	2689
60	1486	26.95	5.06	1320	2749
75	1511	25.00	4.11	1380	2809
90	1526	25.50	3.61	1440	2869
105	1541			1500	2929
120	1556			1560	2989

A.6.5 Data Sheet of Pumping Test (Bakina-2)

B/H No: JA-6

Location: Bakina

Status: Steep D.D. Test

Pump Setting: 40.0m

B/H Depth: 59.0m

Screen: 29.5-41.5m

Time (min)	1st Stage (Qm ³ /hr)		2nd Stage (Qm ³ /hr)		3rd Stage (Qm ³ /hr)		4th Stage (Qm ³ /hr)	
	Water Level (m)	Draw- Down (m)	Water Level (m)	Draw- Down (m)	Water Level (m)	Draw- Down (m)	Water Level (m)	Draw- Down (m)
0								
0.5								
1								
1.5								
2								
2.5								
3								
3.5								
4								
4.5								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
20								
25								
30								
45								
60								
75								
90								
105								
120								

B/H No: JA-5

Location: Bakina

Status: Constant Dis.

Pump Setting: 40.0m

Screen: 29.5-41.5m

Pumping Rate: 0.6m³/hr. 0.171/sec

Time (min)	Water		Draw		Time		Water		Draw	
	Level (m)	Down (m)	Level (m)	Down (m)	Level (m)	Down (m)	Level (m)	Down (m)	Level (m)	Down (m)
0	21.38	0.00	135	35.11	13.73					
0.5	23.00	1.62	150	35.29	13.91					
1	23.29	1.91	165	36.03	14.66					
1.5	23.44	2.06	180	36.20	14.92					
2	23.55	2.17	210	36.60	15.22					
2.5	23.70	2.32	240	36.73	15.35					
3	23.95	2.57	270	36.91	15.53					
3.5	24.24	2.86	300	37.00	15.62					
4	24.47	3.09	320	37.33	15.95					
4.5	24.78	3.40	360	37.37	15.98					
5	25.15	3.77	420	37.41	16.03					
6	25.60	4.22	480	37.55	16.17					
7	25.94	4.56	540	37.49	16.11					
8	26.33	4.95	600	37.50	16.12					
9	26.66	5.28	660	37.51	16.13					
10	27.00	5.62	720	37.56	16.18					
11	27.26	5.88	780	37.61	16.23					
12	27.54	6.16	840	37.62	16.24					
13	27.77	6.39	900	37.62	16.24					
14	28.05	6.67	960	37.62	16.24					
15	28.28	6.90	1020							
20	29.40	8.02	1080							
25	30.30	8.92	1140							
30	30.79	9.41	1200							
45	33.05	11.67	1260							
60	33.80	12.42	1320							
75	34.03	12.65	1380							
90	34.37	12.99	1440							
105	34.75	13.37								
120	35.00	13.62								

B/H No: JA-5

Location: Bakina

Status: Recovery Test

Pump Setting: 40.0m

Screen: 29.5-41.5m

Discharge: 0.6m³/hr. 0.011/sec

Time (min)	Accum.		Water		Draw		Time		Accum.		Water		Draw	
	Time (min)	Level (m)	Time (min)	Level (m)	Time (min)	Level (m)	Time (min)	Level (m)	Time (min)	Level (m)	Time (min)	Level (m)	Time (min)	Level (m)
0	1440						135	1571						
0.5	1440.5						150	1586						
1	1441						165	1601						
1.5	1441.5						180	1616						
2	1442						210	1646						
2.5	1442.5						240	1676						
3	1446						270	1706						
3.5	1446.5						300	1736						
4	1450						330	1766						
4.5	1450.5						360	1796						
5	1451						420	1859						
6	1452						480	1919						
7	1453						540	1979						
8	1454						600	2039						
9	1455						660	2099						
10	1456						720	2159						
11	1457						780	2219						
12	1458						840	2279						
13	1459						900	2329						
14	1460						960	2389						
15	1461						1020	2449						
20	1466						1080	2509						
25	1471						1140	2569						
30	1476						1200	2629						
45	1481						1260	2689						
60	1490						1320	2749						
75	1511						1380	2809						
90	1536						1440	2869						
105	1541						1500	2929						
120	1556						1560	2989						

Project : water supply
Organization : jica/dwd

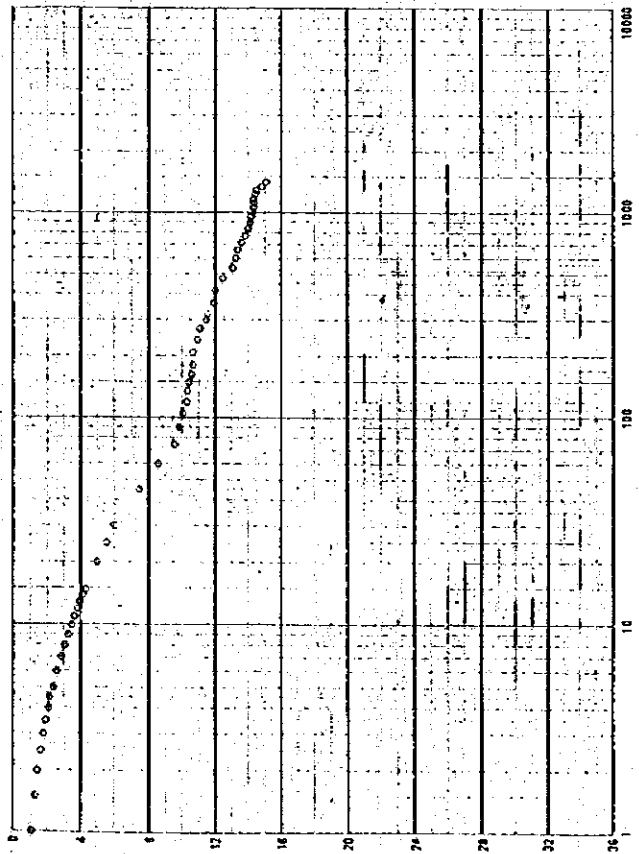
Test : Bekina

Constant Pumping Rate = 14.4 [m³/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

Transmissivity = 0.50153 [m²/day]

Standard Deviation = 0.4255 [m]

Number of Points = 57 of 57



Project : water supply
Organization : jica/dwd

Test : Bekina-R

Constant Pumping Rate = 14.4 [m³/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

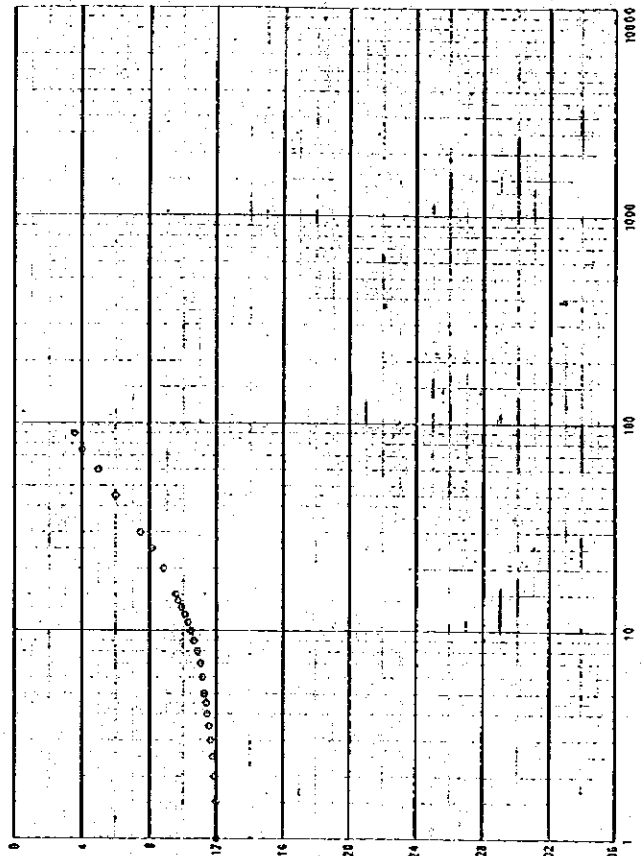
Transmissivity = 0.59656 [m²/day]

Standard Deviation = 0.9485 [m]

A0 = 0.337266E+01

A1 = 0.444626E+01

Number of Points = 27 of 27



A-5.2 Data Sheet of Pumping Test (SsInde-2)

B/H No:JA-7 Location:SsInde-2
Status:Step D.D. Test Pump Setting:31.0
Screen:Open 30.0-50.1m B/H Depth:50.1m

Time (min)	1st Stage (0-0.5m/hr)	2nd Stage (0.1-7m/hr)	3rd Stage (0-0.5m/hr)	4th Stage (0-0.5m/hr)
	Level (m)	Water Level (m)	Water Level (m)	Water Level (m)
	Drawn (m)	Drawn (m)	Drawn (m)	Drawn (m)
0	2.85	0.00	12.08	9.23
0.5	3.50	0.65	12.79	9.94
1	3.88	0.83	13.21	10.36
1.5	3.88	1.03	13.40	10.55
5	3.95	1.10	13.56	10.71
2.5	4.09	1.24	13.60	10.75
3	4.19	1.34	13.69	10.84
3.5	4.34	1.49	13.76	10.91
4	4.46	1.51	13.87	11.02
4.5	4.58	1.73	13.93	11.08
5	4.66	1.83	14.00	11.15
6	4.91	2.06	14.49	11.64
7	5.13	2.28	14.77	11.92
8	5.35	2.50	15.06	12.21
9	5.53	2.68	15.40	12.55
10	5.70	2.85	15.65	12.80
11	5.84	2.99	15.97	13.12
12	5.97	3.12	16.21	13.36
13	6.10	3.28	16.44	13.59
14	6.25	3.40	16.68	13.83
15	6.38	3.53	16.96	14.10
20	6.98	4.13	18.20	15.35
25	7.50	4.65	19.17	16.32
30	7.98	5.10	20.20	17.35
45	9.09	6.24	22.51	19.66
60	9.37	6.52	24.29	21.44
75	9.80	6.95	24.29	21.44
90	10.21	7.36	26.20	23.35
105	10.57	7.72	27.31	24.46
120	10.95	8.10	28.00	25.15
135	11.21	8.36	28.10	25.25
150	11.48	8.63	28.10	25.25

B/H No:JA-7 Location:SsInde-2
Status:Constant Disc. Pump Setting:31.0m
B/H Depth:50.1m Screen:Open below 30.0 m

Pumping Rate: 0.27/sec				
Time (min)	Water Level (m)	Drawn (m)	Time (min)	Water Level (m)
0	5.75	0.00	135	27.27
0.5	6.61	0.86	150	27.90
1	7.73	1.98	165	28.10
1.5	8.15	2.40	180	28.27
2	8.80	3.05	210	28.39
2.5	9.40	3.65	240	28.44
3	9.90	4.15	270	28.48
3.5	10.47	4.72	300	28.56
4	10.81	5.06	320	28.70
4.5	11.25	5.50	360	28.78
5	11.57	5.82	420	28.92
6	12.05	6.30	480	29.97
7	12.53	6.78	540	29.99
8	12.96	7.21	600	29.00
9	13.31	7.56	660	29.00
10	13.69	7.94	720	28.99
11	14.02	8.27	780	29.10
12	14.37	8.62	840	29.27
13	14.68	8.93	900	29.41
14	15.00	9.25	960	29.56
15	15.30	9.55	1020	29.61
20	16.55	10.80	1080	29.77
25	17.68	11.93	1140	29.77
30	18.67	12.92	1200	29.77
45	20.98	15.23	1260	29.77
60	22.66	16.91	1320	29.78
75	23.75	18.00	1380	29.79
90	24.66	18.91	1440	29.78
105	25.80	20.06		24.03
120	26.66	20.91		

B/H No:JA-7 Location:SsInde-2
Status:Recovery Test Pump Setting:31.0m
B/H Depth:50.1m Screen:Open below 30.0m

Discharge: 1.0 m ³ /hr. 0.021/sec						
Time (min)	Accum. Time (min)	Water Level (m)	Drawn (m)	Accum. Time (min)	Water Level (m)	Drawn (m)
0	1440	29.78	24.03	135	1571	16.34
0.5	1440.5	28.41	22.66	150	1586	16.74
1	1441	27.97	22.02	165	1601	15.27
1.5	1441.5	27.20	21.45	180	1616	14.78
2	1442	26.91	21.16	210	1646	13.91
2.5	1442.5	26.65	20.90	240	1676	13.25
3	1446	26.53	20.78	270	1706	12.69
3.5	1446.5	26.37	20.62	300	1736	12.00
4	1450	26.20	20.45	330	1766	11.21
4.5	1450.5	26.00	20.35	360	1796	10.63
5	1451	25.83	20.08	420	1859	9.51
6	1452	25.70	19.95	480	1919	8.74
7	1453	25.38	19.63	540	1979	8.63
8	1454	25.18	19.43	600	2039	8.55
9	1455	24.97	19.22	660	2099	8.17
10	1456	24.79	19.04	720	2159	7.81
11	1457	24.61	18.86	780	2219	7.37
12	1458	24.48	18.73	840	2279	6.91
13	1459	24.29	18.54	900	2329	6.33
14	1460	24.17	18.42	960	2389	5.98
15	1461	24.04	18.29	1020	2449	
20	1466	23.43	17.68	1080	2509	
25	1471	22.90	17.15	1140	2569	
30	1476	22.39	16.64	1200	2629	
45	1481	21.19	15.44	1260	2689	
60	1486	20.10	14.35	1320	2749	
75	1511	19.27	13.52	1380	2809	
90	1526	18.45	12.70	1440	2869	
105	1541	17.64	11.89	1500	2929	
120	1556	16.88	11.13	1560	2989	

Project : water supply
Organization : jica/dwd

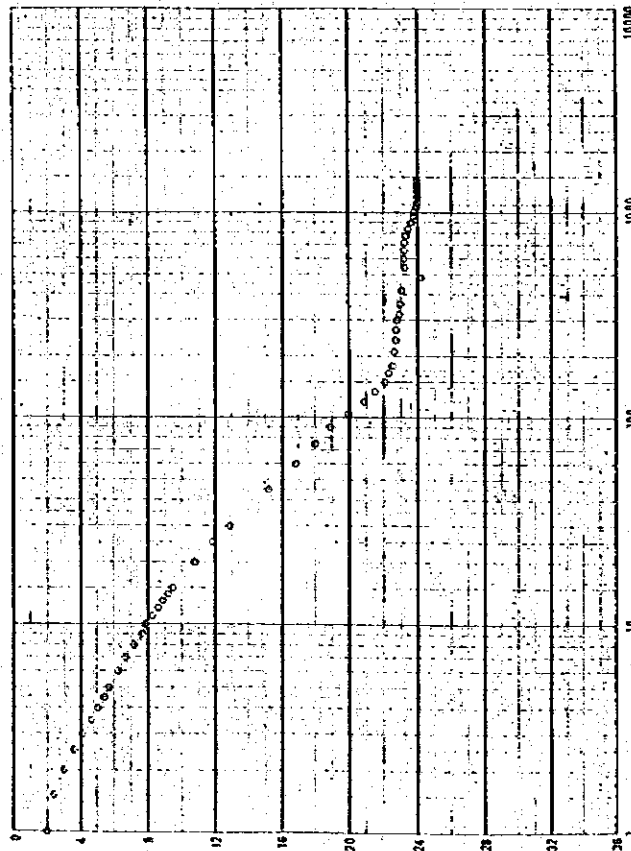
Test : Ssinde-2

Constant Pumping Rate = 24.0 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

Transmissivity = 0.52091 [m2/day]

Standard Deviation = 1.7430 [m]

Number of Points = 57 of 57



Project : water supply
Organization : jica/dwd

Test : Ssinde-2-R

Constant Pumping Rate = 24.0 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

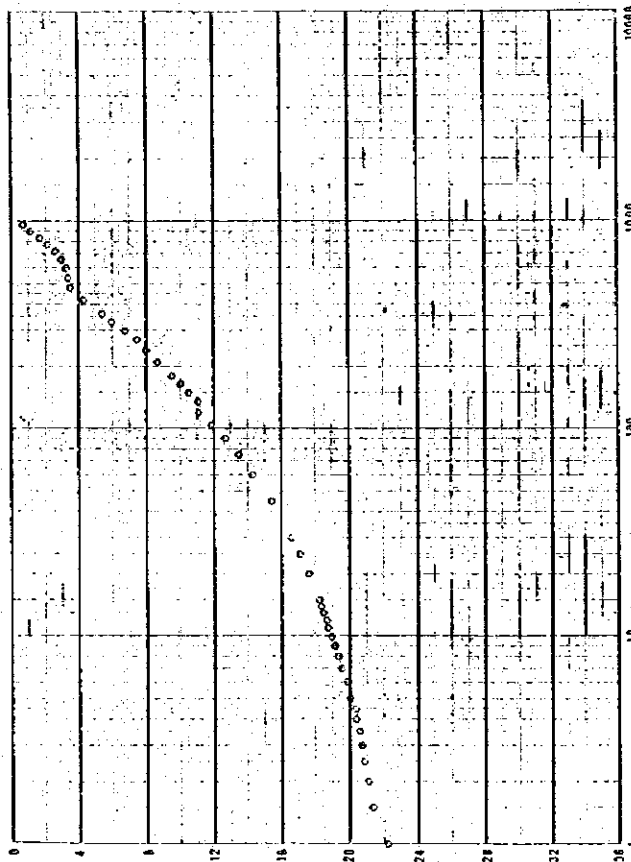
Transmissivity = 0.52410 [m2/day]

Standard Deviation = 2.0082 [m]

A0 = 0.337266E+01

A1 = 0.444626E+01

Number of Points = 49 of 49



A.5.6 Data Sheet of Pumping Test (Santa)

B/H No:JA-8
Status:Step D.D. Test
Screen:30-36m, open 36, 5-50, 1m

Location:Seeta
Pump Setting:30.0m

B/H Depth:50.1m

Time (min)	1st Stage (0-1.0m/hr)	2nd Stage (0-3.0m/hr)	3rd Stage (0-5.0m/hr)	4th Stage (0-7.0m/hr)
	Water Level (m)	Water Level (m)	Water Level (m)	Water Level (m)
0	4.43	0.00	0.00	0.00
0.5	5.27	0.84	0.94	0.79
1	5.23	0.80	0.98	0.98
1.5	5.25	0.82	0.99	0.92
2	5.28	0.85	1.03	0.98
2.5	5.30	0.87	1.03	0.97
3	5.30	0.87	1.04	0.97
3.5	5.30	0.87	1.04	0.97
4	5.30	0.87	1.05	0.98
4.5	5.30	0.87	1.05	0.98
5	5.30	0.87	1.05	0.98
6	5.30	0.87	1.05	0.99
7	5.30	0.87	1.05	0.99
8	5.30	0.87	1.05	0.99
9	5.30	0.87	1.05	0.99
10	5.30	0.87	1.05	0.99
11	5.30	0.87	1.05	0.99
12	5.30	0.87	1.05	0.99
13	5.30	0.87	1.05	0.99
14	5.30	0.87	1.05	0.99
15	5.30	0.87	1.05	0.99
20	5.30	0.87	1.05	0.99
25	5.30	0.87	1.05	0.99
30	5.30	0.87	1.05	0.99
45	5.30	0.87	1.05	0.99
60	5.30	0.87	1.05	0.99
75	5.30	0.87	1.05	0.99
90	5.30	0.87	1.05	0.99
105	5.31	0.88	1.06	0.99
120	5.30	0.87	1.05	0.99
135	5.29	0.86	1.04	0.97
150	5.28	0.85	1.04	0.97
165	5.27	0.84	1.03	0.97
180	5.27	0.84	1.03	0.97

B/H No:JA-8
Status:Constant Dis.
Screen:30-36m, open 36, 5-50, 1m

Location:Seeta
Pump Setting:30.0m

B/H Depth:50.1m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	3.90	0.00	135	8.82	4.92
0.5	5.80	1.90	150	8.86	4.96
1	6.40	2.50	165	8.91	5.01
1.5	6.93	3.03	180	8.96	5.06
2	7.06	3.16	210	9.08	5.18
2.5	7.31	3.41	240	9.17	5.27
3	7.41	3.51	270	9.23	5.33
3.5	7.50	3.60	300	9.27	5.37
4	7.58	3.68	330	9.34	5.44
4.5	7.63	3.73	360	9.41	5.51
5	7.67	3.77	420	9.48	5.58
6	7.74	3.84	480	9.53	5.63
7	7.80	3.90	540	9.57	5.67
8	7.84	3.94	600	9.62	5.72
9	7.88	3.98	660	9.66	5.76
10	7.92	4.02	720	9.69	5.79
11	7.94	4.04	780	9.74	5.84
12	7.97	4.07	840	9.77	5.87
13	8.00	4.10	900	9.79	5.89
14	8.03	4.13	960	9.82	5.92
15	8.06	4.16	1020	9.87	5.97
20	8.19	4.29	1080	9.93	6.03
25	8.30	4.40	1140	10.00	6.10
30	8.40	4.50	1200	10.08	6.18
45	8.47	4.57	1260	10.09	6.19
60	8.54	4.64	1320	10.09	6.19
75	8.59	4.69	1380	10.11	6.21
90	8.67	4.77	1440	10.12	6.22
105	8.70	4.80			
120	8.76	4.86			

B/H No:JA-8
Status:Recovery Test
Screen:30-36m, open 36, 5-50, 1m

Location:Seeta
Pump Setting:30.0m

B/H Depth:50.1m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	1.440	0.00	135	1.571	
0.5	1.440.5	0.10	150	1.586	
1	1.441	0.11	165	1.601	
1.5	1.441.5	0.16	180	1.616	
2	1.442	0.18	210	1.646	
2.5	1.442.5	0.18	240	1.676	
3	1.446	0.19	270	1.706	
3.5	1.446.5	0.19	300	1.736	
4	1.450	0.20	330	1.766	
4.5	1.450.5	0.20	360	1.796	
5	1.451	0.21	420	1.859	
6	1.452	0.25	480	1.919	
7	1.453	0.20	540	1.979	
8	1.454	0.16	600	2.039	
9	1.455	0.12	660	2.099	
10	1.456	0.08	720	2.159	
11	1.457	0.06	780	2.219	
12	1.458	0.04	840	2.279	
13	1.459	0.02	900	2.339	
14	1.460	0.00	960	2.389	
15	1.461	0.00	1020	2.449	
20	1.466	0.01	1080	2.509	
25	1.471	0.08	1140	2.569	
30	1.476	0.02	1200	2.629	
45	1.481	0.02	1260	2.689	
60	1.486	0.06	1320	2.749	
75	1.511	0.00	1380	2.809	
90	1.506	0.06	1440	2.869	
105	1.541	0.03	1500	2.929	
120	1.556		1560	2.989	

Project : water supply
Organization : jica/dwd

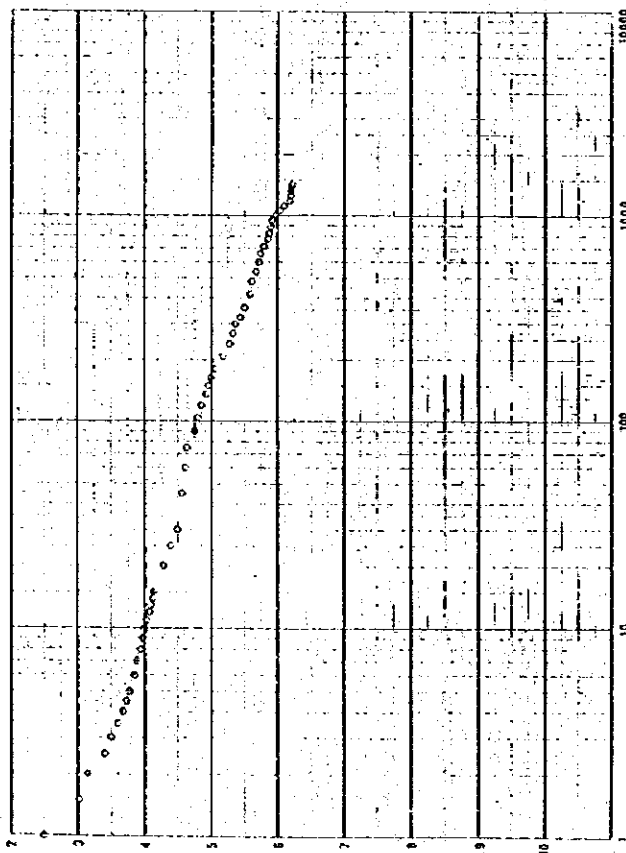
Test : Seeta

Constant Pumping Rate = 172.8 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

Transmissivity = 30.67314 [m2/day]

Standard Deviation = 0.1441 [m]

Number of Points = 56 of 56



Project : water supply
Organization : jica/dwd

Test : Seeta-R

Constant Pumping Rate = 172.8 [m3/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

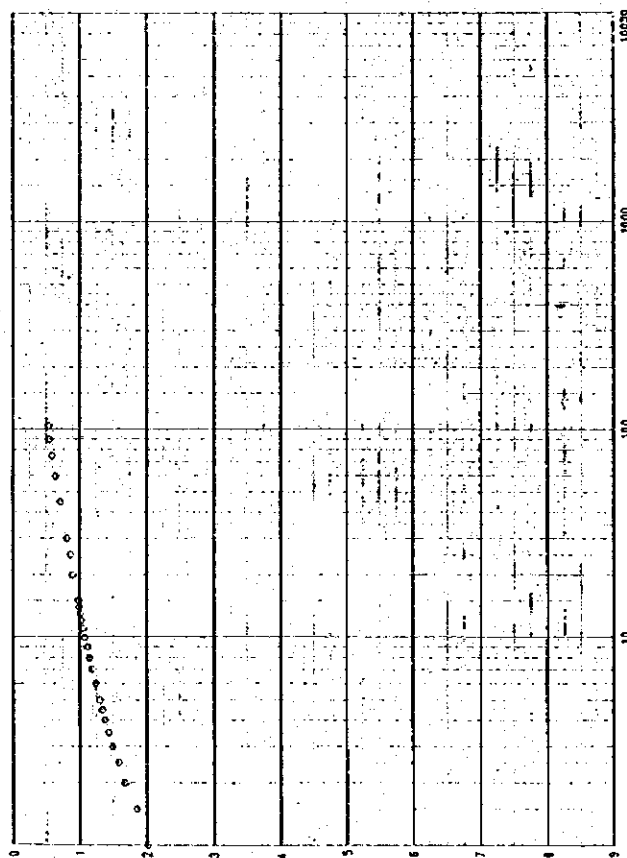
Transmissivity = 54.22644 [m2/day]

Standard Deviation = 0.6185 [m]

A0 = 0.337266E+01

A1 = 0.444626E+01

Number of Points = 28 of 28



A-5.7 Data Sheet of Pumping Test (Masere)

B/N No: JA-9
Status: Stop D.D. Test
Screen: 24-36m, open 42-63m

Location: Masere
Pump Setting: 35.0m
B/H Depth: 63.0m

Time (min)	1st Stage (0m-6m)	2nd Stage (6m-12m)	3rd Stage (12m-18m)	4th Stage (18m-24m)
	Water Level (m)	Water Level (m)	Water Level (m)	Water Level (m)
0	7.68	0.00	13.16	0.00
0.5	8.19	0.51	14.30	1.14
1	9.06	2.00	14.98	1.82
1.5	10.33	2.65	15.55	2.39
2	11.32	3.22	16.03	2.87
2.5	11.32	3.64	16.64	3.48
3	11.50	3.82	17.09	3.93
3.5	11.70	4.02	17.40	4.44
4	11.82	4.14	18.03	4.87
4.5	11.93	4.25	18.47	5.31
5	12.00	4.32	18.92	5.76
6	12.17	4.49	19.81	6.65
7	12.25	4.57	20.60	7.44
8	12.32	4.64	21.39	8.23
9	12.38	4.70	22.14	8.98
10	12.44	4.76	22.18	9.02
11	12.52	4.84	23.48	10.32
12	12.56	4.88	24.17	11.01
13	12.63	4.95	24.80	11.64
14	12.68	5.00	25.35	12.19
15	12.74	5.06	26.04	12.68
20	12.90	5.31	28.28	15.12
25	13.14	5.46	30.27	17.11
30	13.29	5.61	32.30	19.14
45	13.10	5.42	33.70	20.54
60	13.10	5.42	33.70	20.54
75	13.10	5.42	33.73	20.57
90	13.10	5.42	33.74	20.58
105	13.13	5.45	33.75	20.59
120	13.15	5.47	33.76	20.60
135	13.15	5.47	33.78	20.62
150	13.15	5.47	33.73	20.57
165	13.15	5.47	33.73	20.57
180	13.16	5.48	33.73	20.57

B/N No: JA-9
Status: Constant Disc.
B/H Depth: 63.0m
Pumping Rate: 0.7m³/hr, 0.221/sec

Location: Masere
Pump Setting: 35.0m
Screen: 24-36m, open 42-63m

Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Water Level (m)	Draw-Down (m)
0	8.08	0.00	135	22.70	14.62
0.5	9.90	1.82	150	22.80	14.72
1	10.10	2.02	165	22.91	14.83
1.5	10.50	2.42	180	23.00	14.92
2	10.87	2.79	210	23.09	15.01
2.5	11.05	2.97	240	23.17	15.09
3	11.26	3.18	270	23.21	15.13
3.5	11.57	3.49	300	23.23	15.15
4	11.70	3.62	330	23.23	15.15
4.5	11.87	3.79	360	23.22	15.14
5	11.87	3.79	420	23.20	15.12
6	12.16	4.08	480	23.22	15.14
7	12.34	4.26	540	23.24	15.16
8	13.70	5.62	600	23.27	15.19
9	15.60	7.55	660	23.27	15.19
10	17.20	9.12	720	23.28	15.20
11	17.92	9.84	780	23.27	15.19
12	18.37	10.29	840	23.26	15.18
13	18.69	10.61	900	23.25	15.17
14	19.08	11.00	960	23.25	15.17
15	19.40	11.32	1020	23.25	15.17
20	20.86	12.78	1080	23.24	15.16
25	21.26	13.18	1140	23.23	15.15
30	21.40	13.32	1200	23.26	15.18
45	21.86	13.78	1260	23.28	15.20
60	22.00	13.92	1320	23.40	15.32
75	22.15	14.07	1380	23.61	15.53
90	22.26	14.18	1440	23.68	15.60
105	22.41	14.33			
120	22.57	14.49			

B/N No: JA-9
Status: Recovery Test
B/H Depth: 63.0m
Discharge: 0.7m³/hr, 0.221/sec

Location: Masere
Pump Setting: 35.0m
Screen: 24-36m, open 42-63m

Time (min)	Accum. Time (min)	Water Level (m)	Draw-Down (m)	Time (min)	Accum. Time (min)	Water Level (m)	Draw-Down (m)
0	1440	23.68	15.60	135	1571		
0.5	1440.5	23.16	15.08	150	1586		
1	1441	22.57	14.49	165	1601		
1.5	1441.5	22.05	13.97	180	1616		
2	1442	21.56	13.48	210	1646		
2.5	1442.5	21.07	12.99	240	1676		
3	1446	20.62	12.54	270	1706		
3.5	1446.5	20.18	12.10	300	1736		
4	1450	19.72	11.64	330	1766		
4.5	1450.5	19.30	11.22	360	1796		
5	1451	18.88	10.80	420	1869		
6	1452	18.06	9.98	480	1919		
7	1453	17.29	9.21	540	1979		
8	1454	16.55	8.47	600	2039		
9	1455	15.87	7.79	660	2099		
10	1456	15.26	7.18	720	2159		
11	1457	14.67	6.59	780	2219		
12	1458	14.13	6.05	840	2279		
13	1459	13.62	5.54	900	2339		
14	1460	13.15	5.07	960	2389		
15	1461	13.73	5.45	1020	2449		
20	1466	11.14	3.06	1080	2509		
25	1471	9.98	1.90	1140	2569		
30	1476	9.24	1.26	1200	2629		
45	1481	8.87	0.79	1260	2689		
60	1486	8.31	0.23	1320	2749		
75	1511	7.96	-0.12	1380	2809		
90	1536			1440	2869		
105	1541			1500	2929		
120							

Project : water supply
Organization : jica/dwd

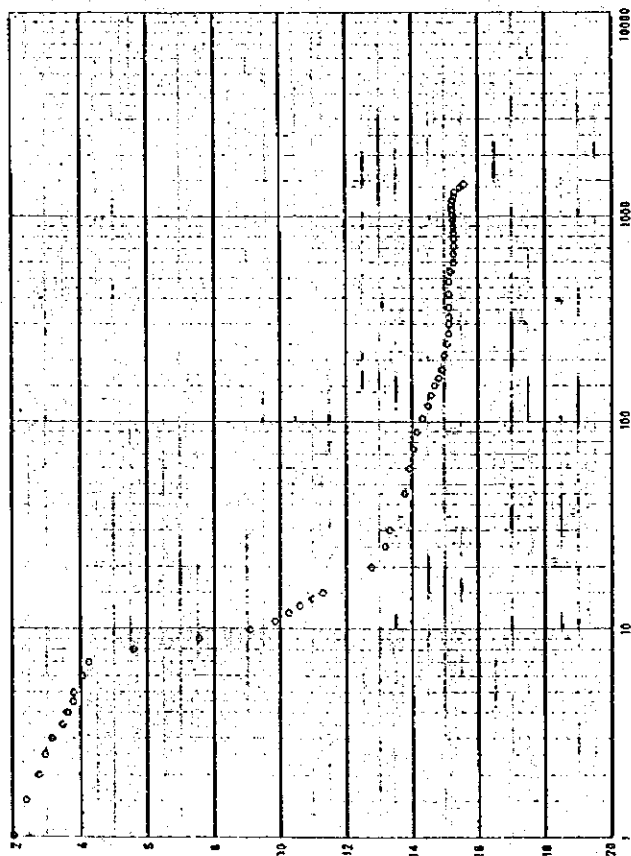
Test : Magere

Constant Pumping Rate = 18.7 [m³/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

Transmissivity = 0.77264 [m²/day]

Standard Deviation = 1.9434 [m]

Number of Points = 57 of 57



Project : water supply
Organization : jica/dwd

Test : Magere-R

Constant Pumping Rate = 18.7 [m³/day]
Distance from Pumping Well = 0.08 [m]
Type of Aquifer = CONFINED
Type of Input Data = DRAWDOWN
Well Type = STANDARD

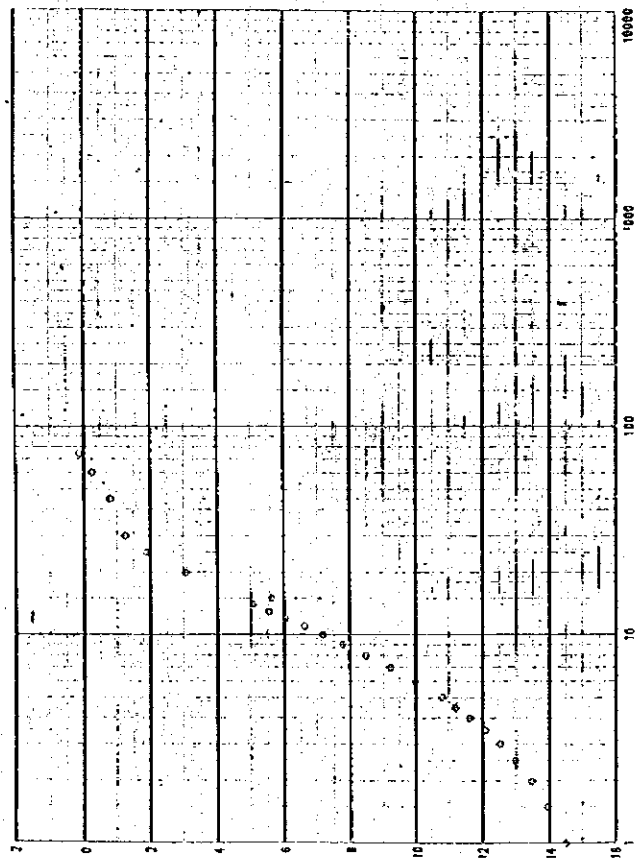
Transmissivity = 0.97771 [m²/day]

Standard Deviation = 2.9281 [m]

A0 = 0.337266E+01

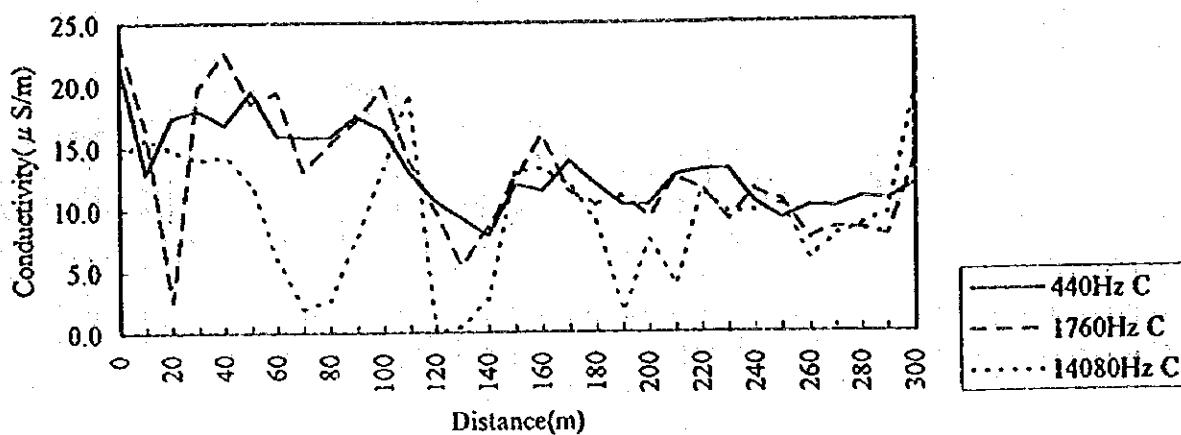
A1 = 0.444628E+01

Number of Points = 26 of 26

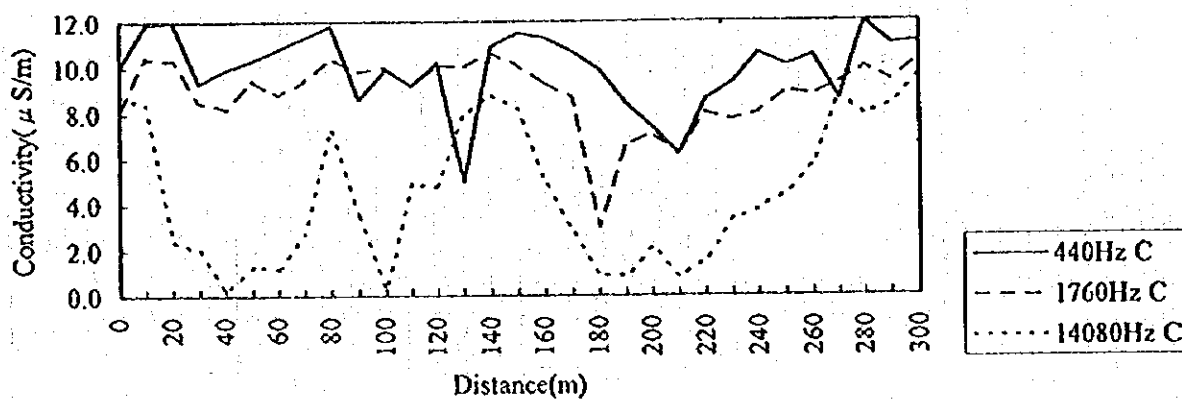


A.6 Geophysical Prospecting Record
A.6.1 EM Prospecting

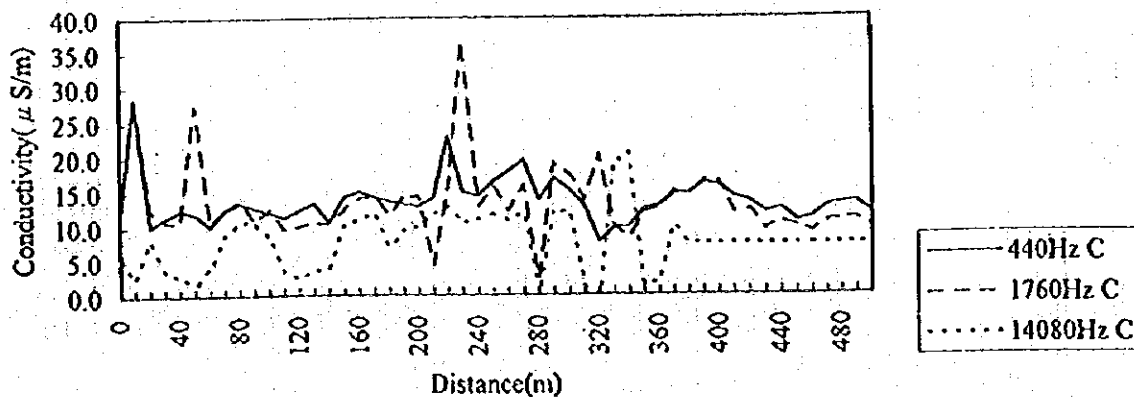
Nakulamude P/Sch line No.1



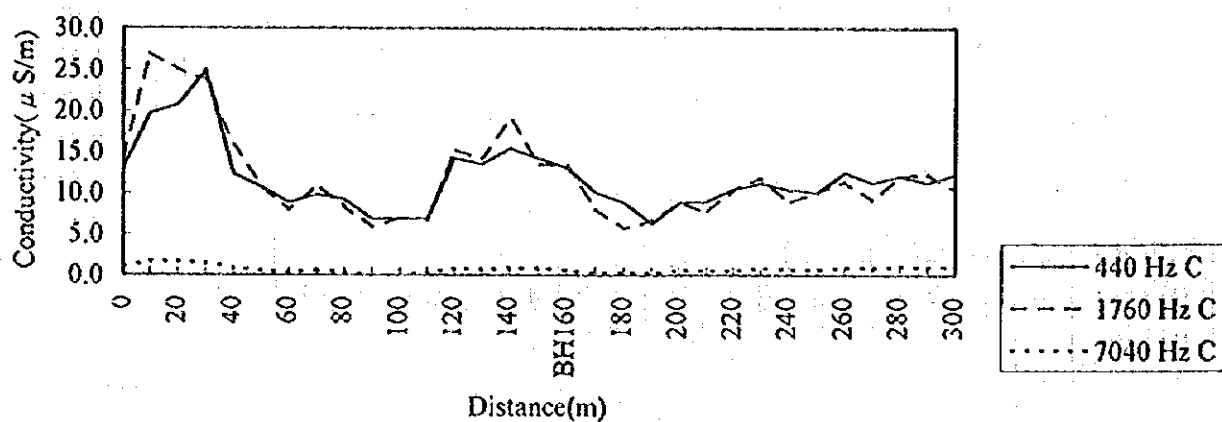
Nakulamude P/Sch line No.2



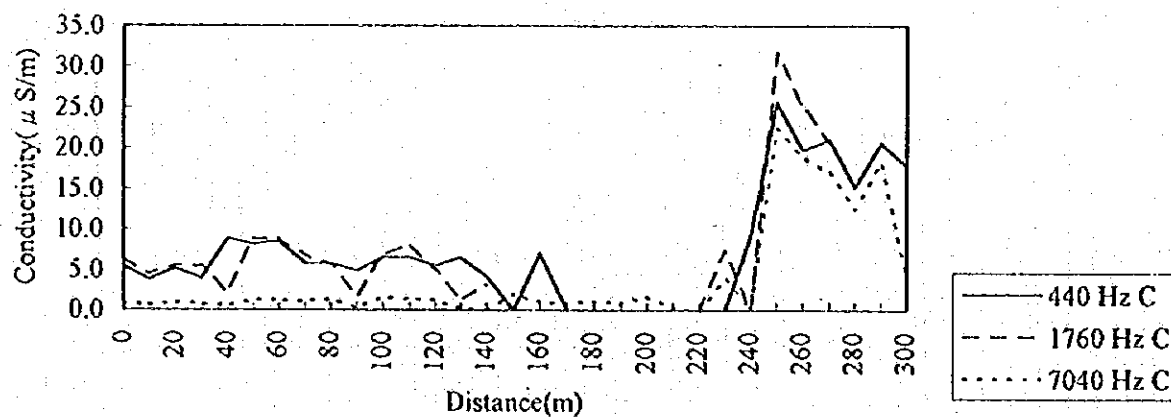
Nkokonjuri line No.1(0m-300m), No.2(300m-500m)



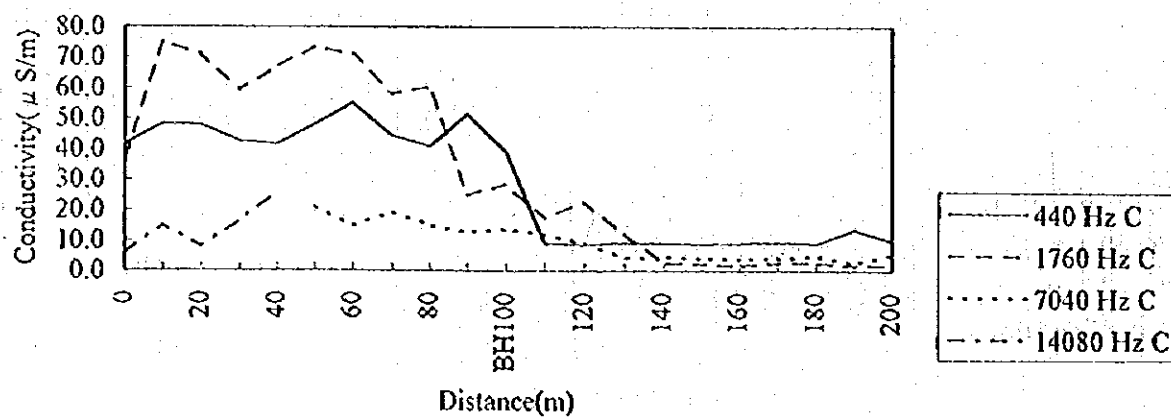
Ntalagi Existing Borehole line No.1(S-N)



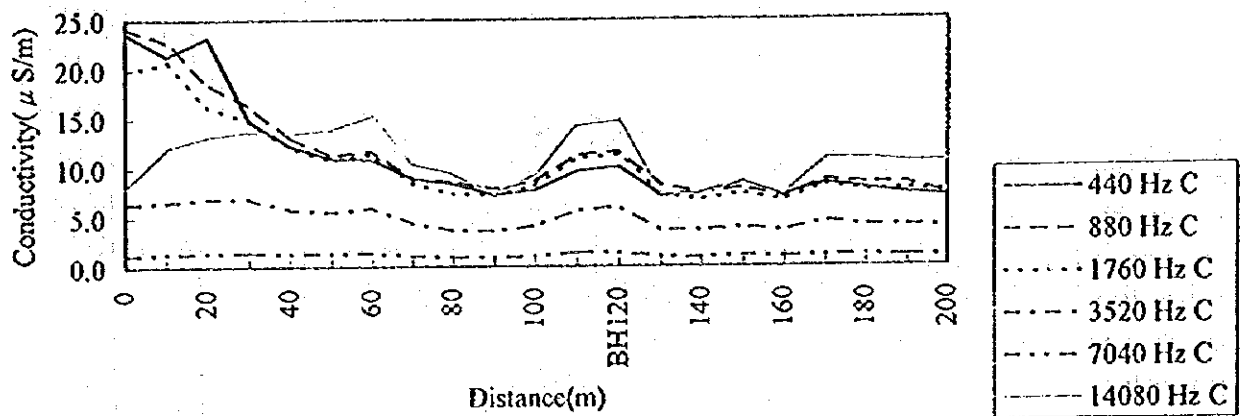
Maddu B Existing Borehole Site (E-W)



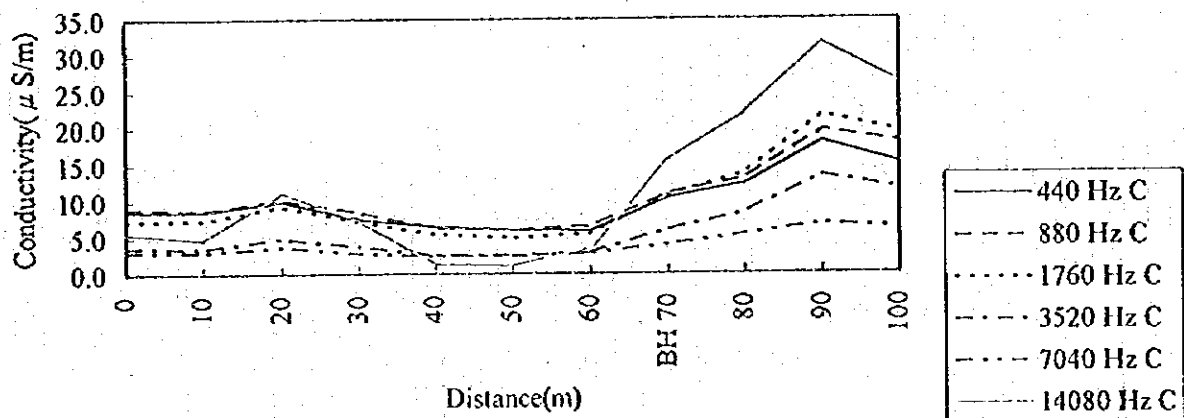
Maddu A line No.1 (SE-NW)



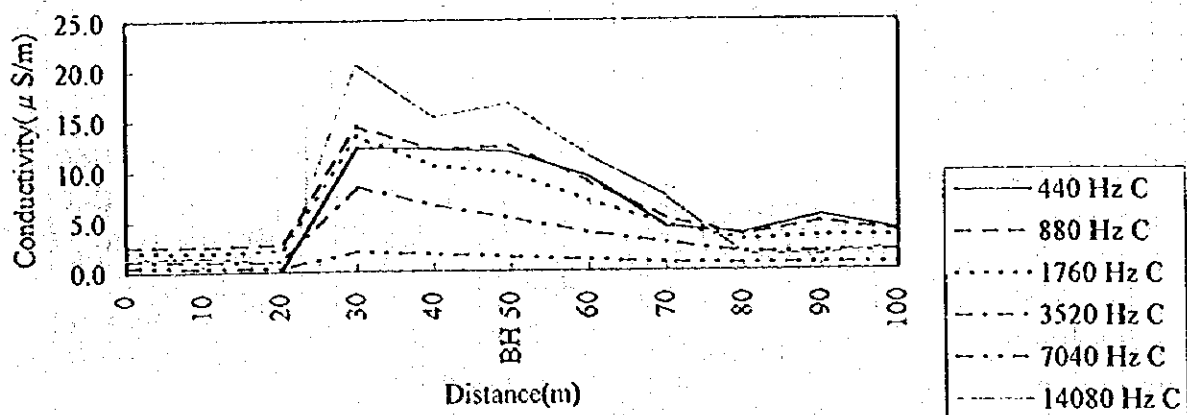
Masulita S/C HQ B/H line No.1(N-S)



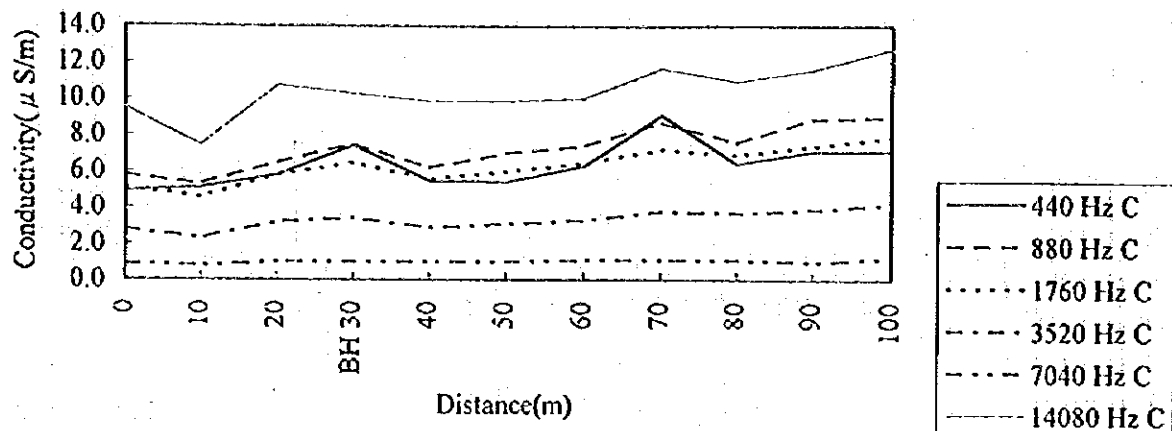
Masulita Junior School B/H line No.1 (W-E)



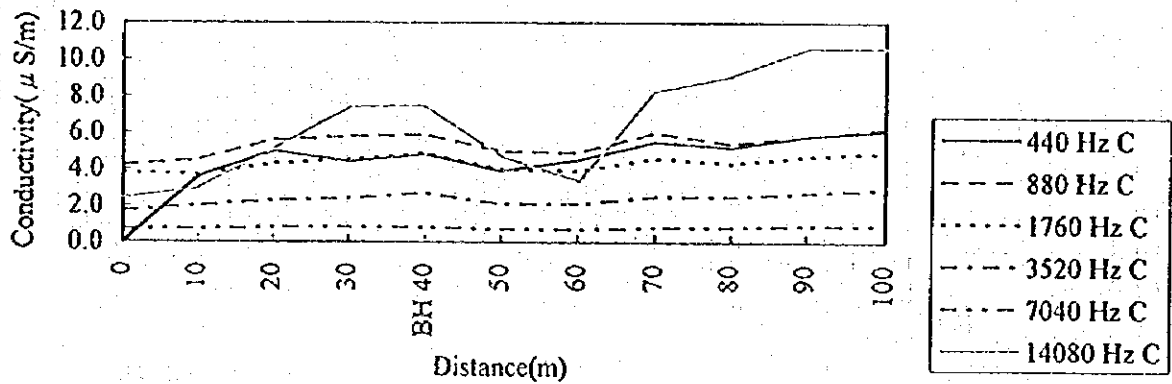
UWESO Childrens Village B/H line No.1 (S-N)



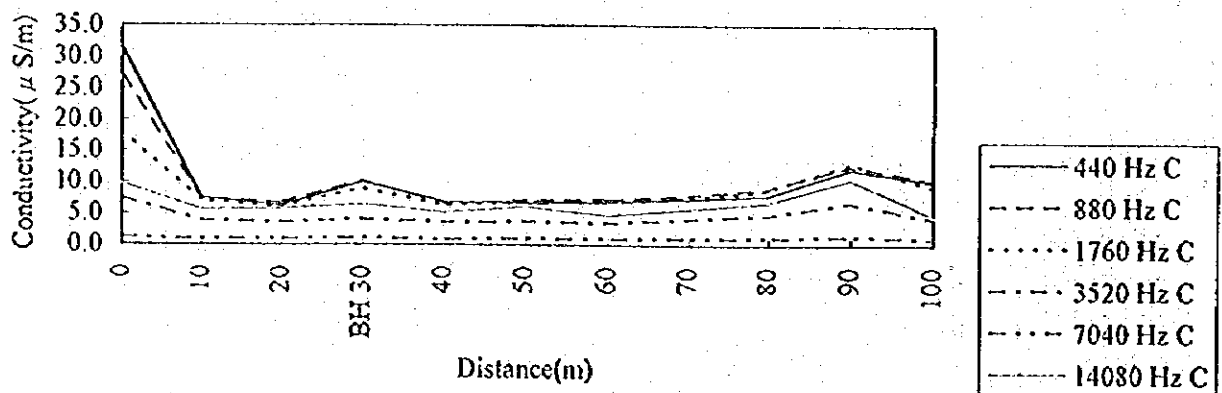
Katikamu Light Collage B/H No.1 (W-E)



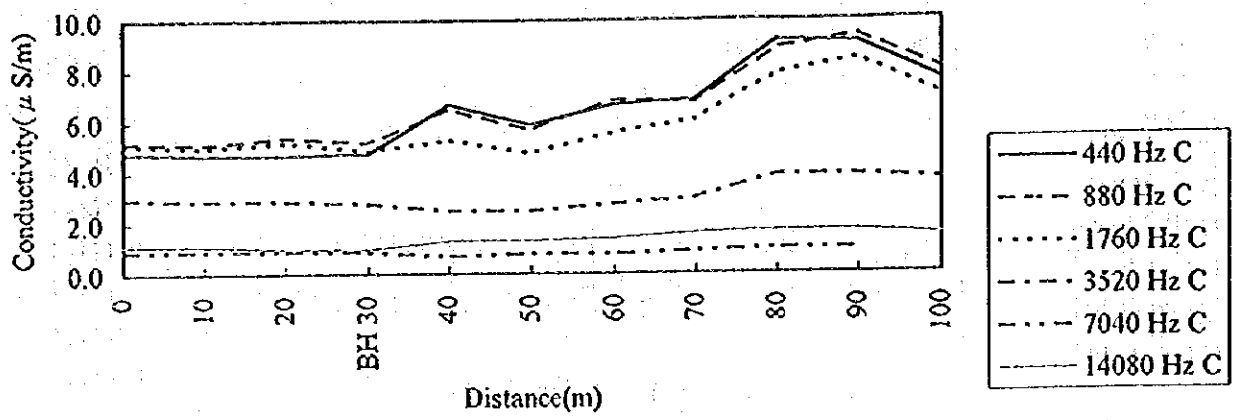
Manze Dispensary B/H No.1 (N-S)



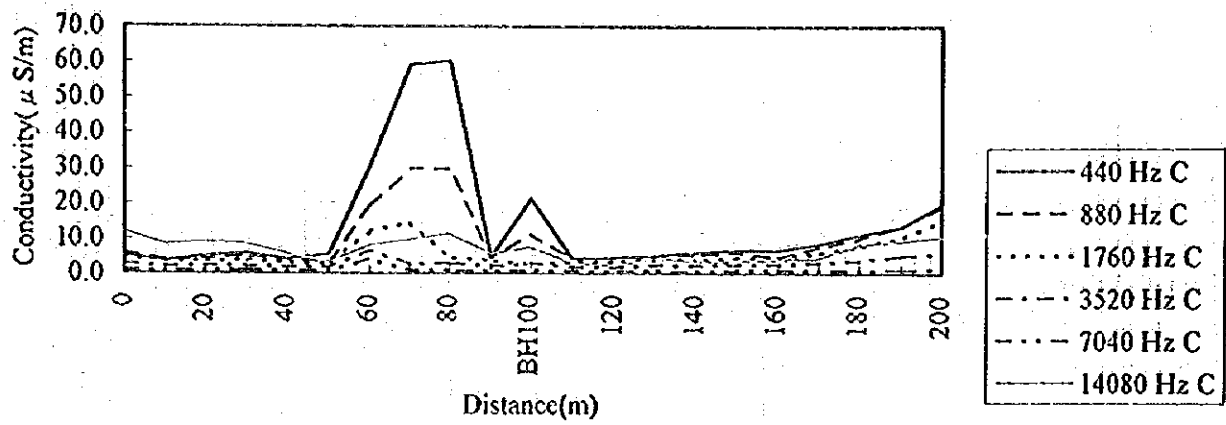
Wakiso Health Center B/H line No.1 (SE-NW)



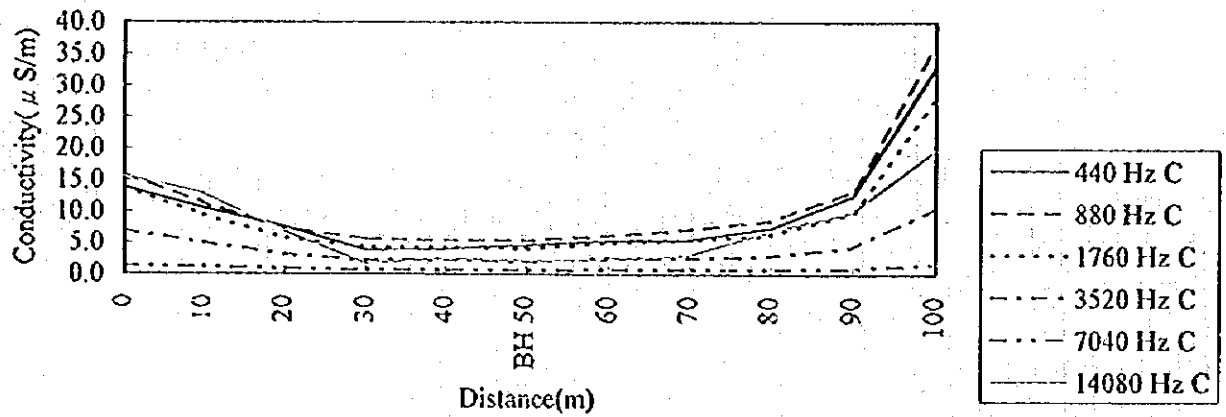
Bukasa Mixed Primary School B/H



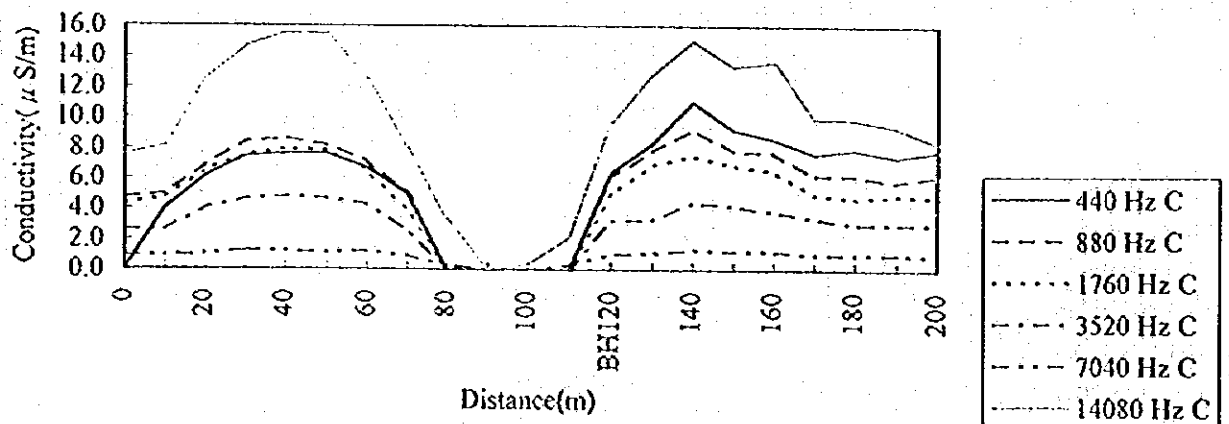
Mizigo Village B/H



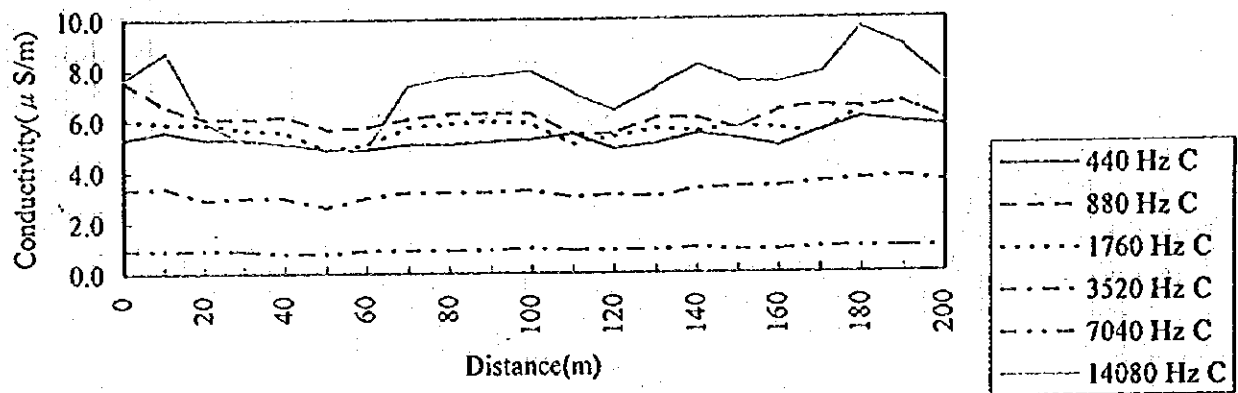
Mityana Hospital B/H



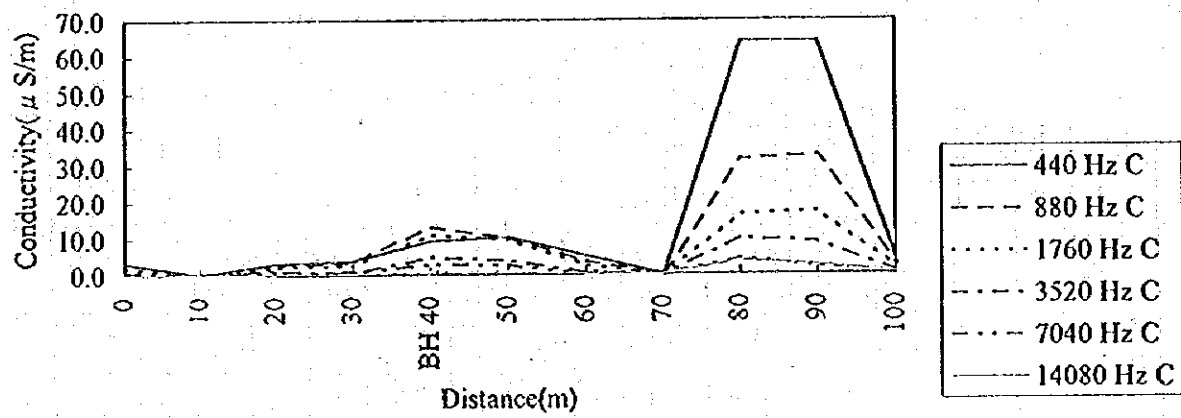
Kabuwambo Kinene Village B/H line No.1(S-N)



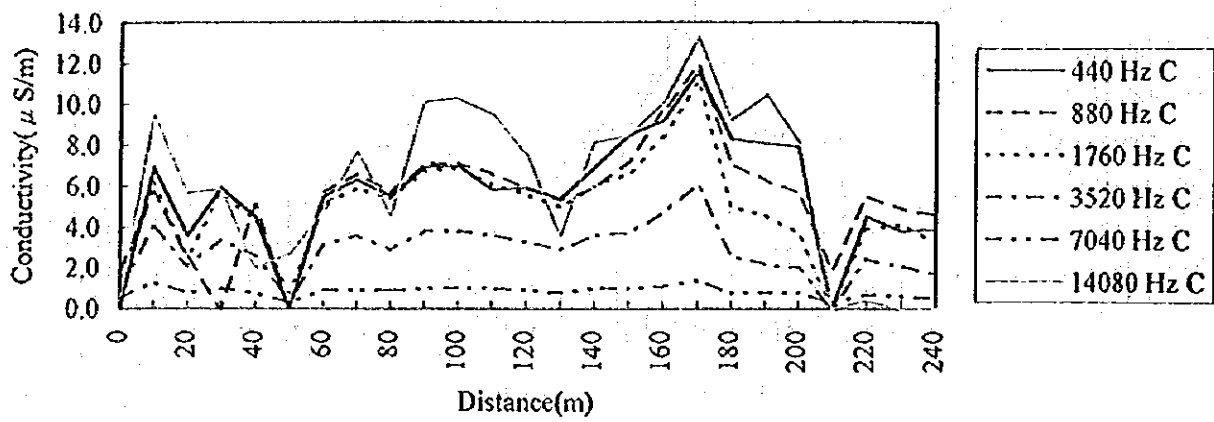
Kalangalo RC Primary School



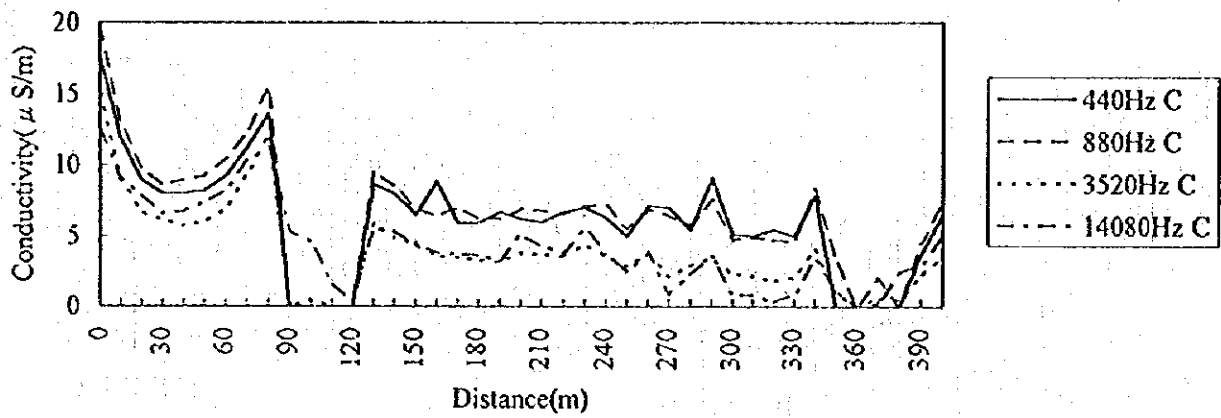
Myanzi Trading Centre



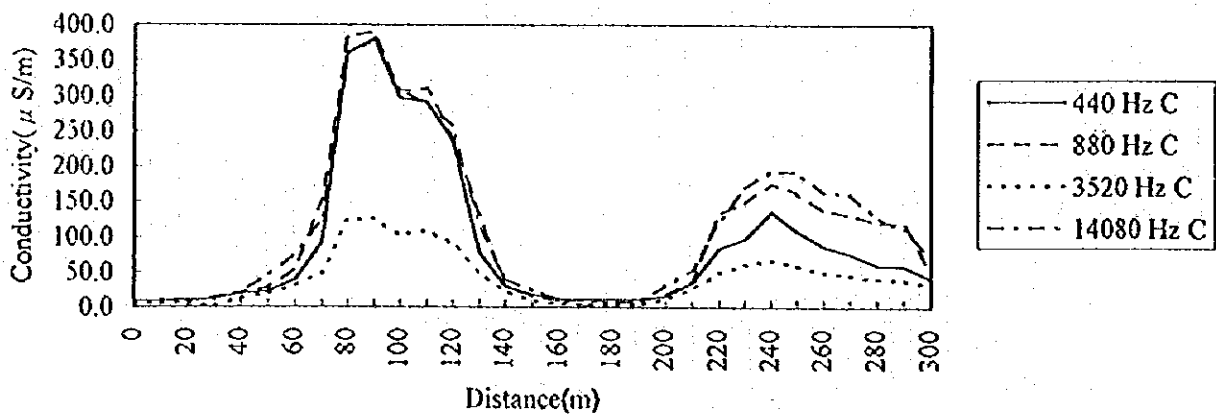
Saza Headquarter Line No.1



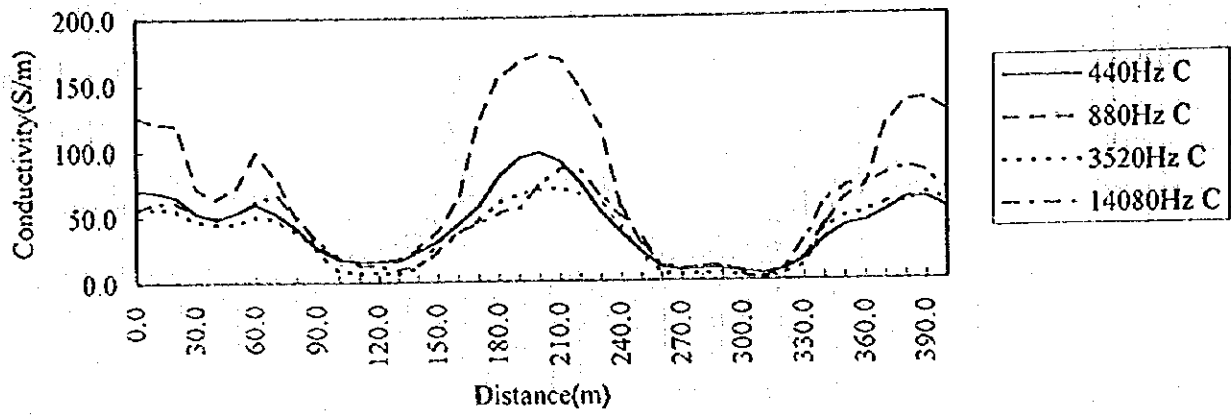
Saza Headquarter Line No.2



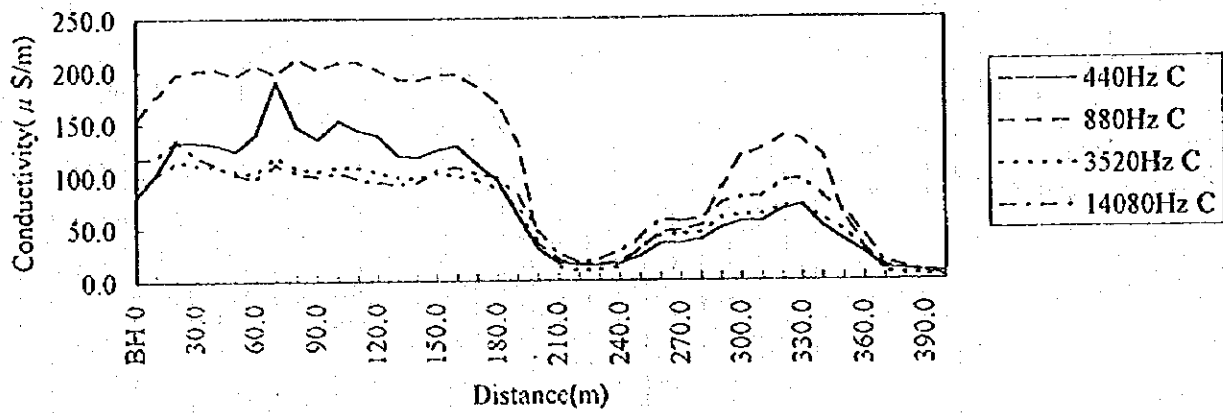
Saza Headquarter Line No.3



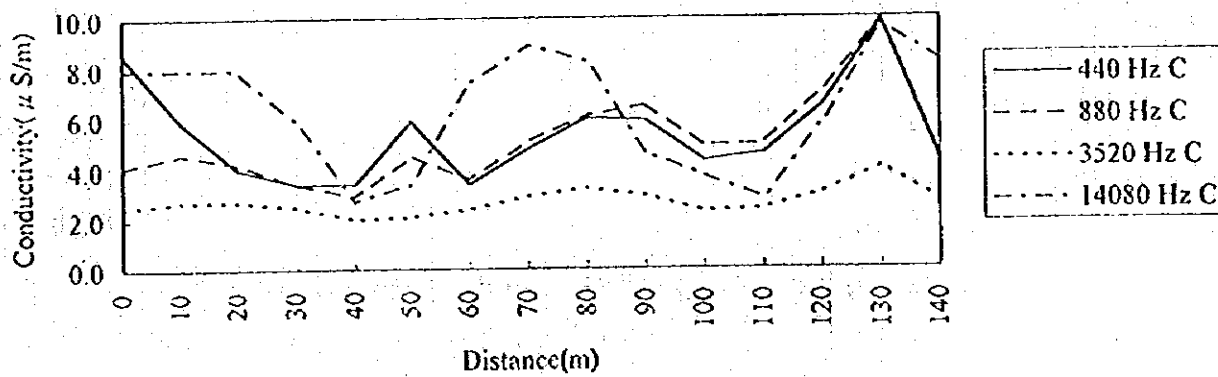
Kyankwanzi Line No.1



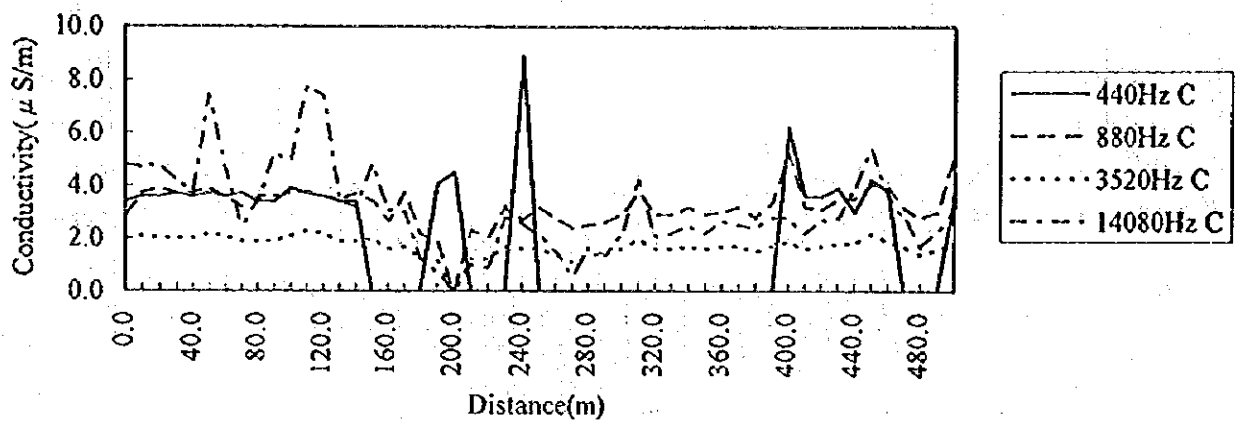
Kyankwanzi Line No.2



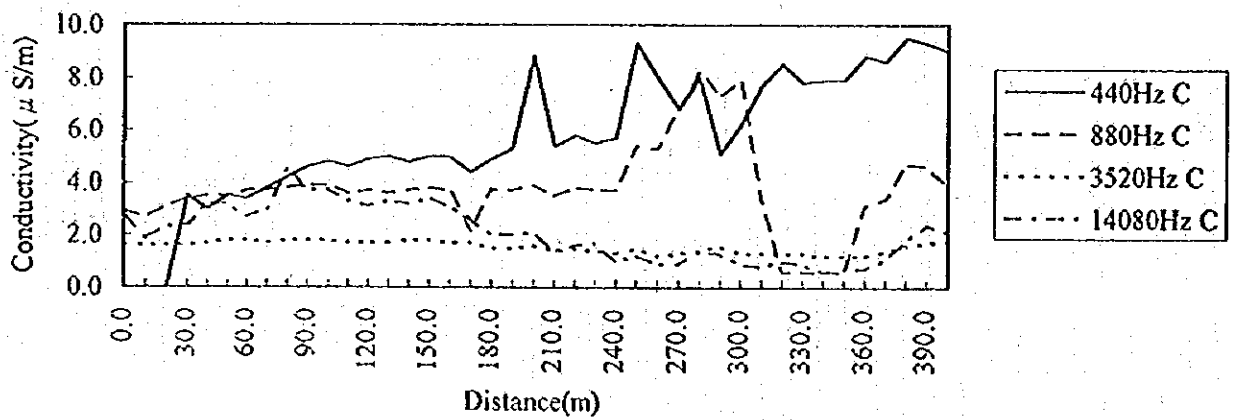
Bugomolwa Line No.1



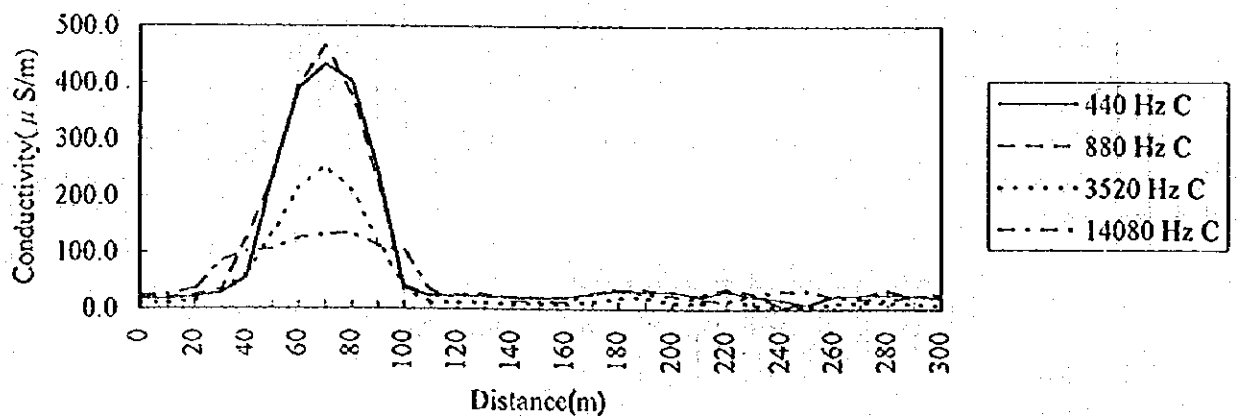
Bogomolwa Line No.2



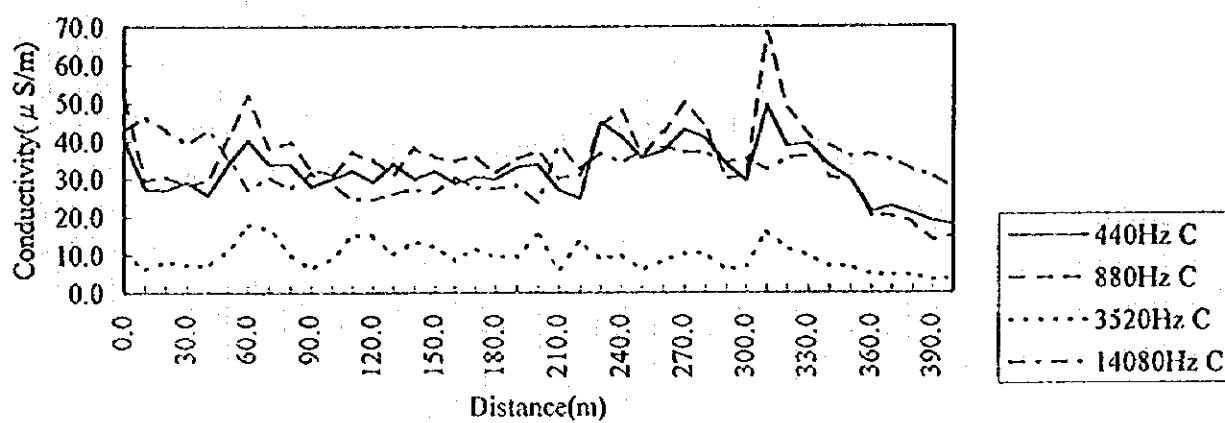
Bugomolwa Line No.3



Bokomero Senior Secondary School



Bukomero Trading Centre



A. 6. 2 Resistivity Prospecting Record

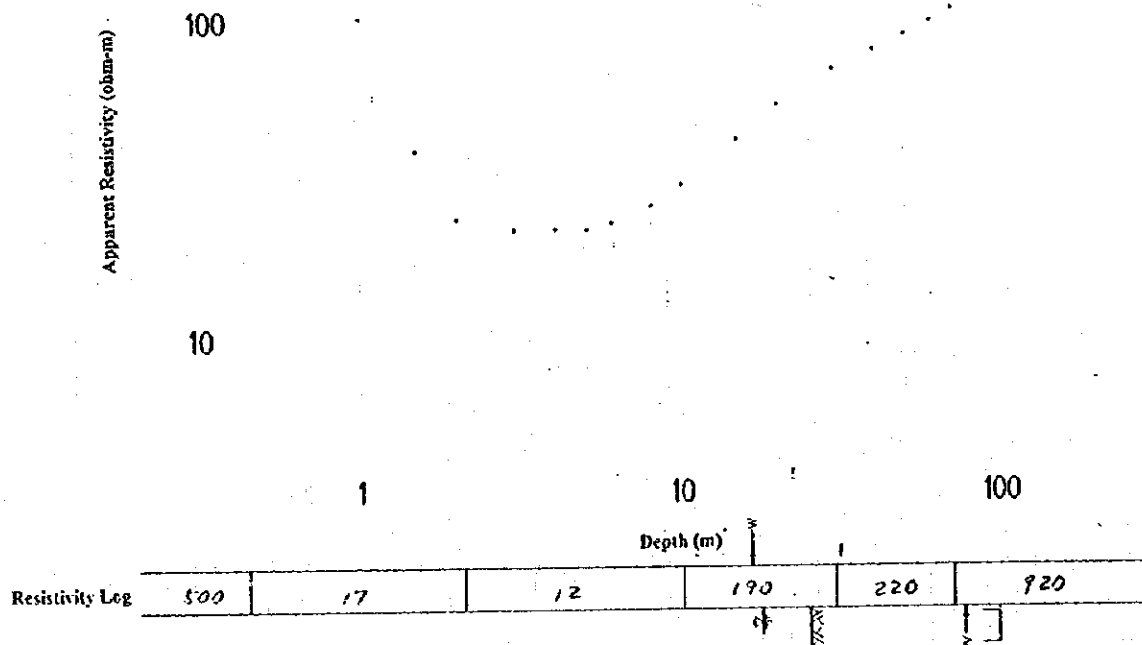
<u>Legend</u>	
	SWL
	Surface of Hard Rock
	Bottom of Borehole
	Location of Position

A.6.2.1 Mpigi District

Resistivity Sounding ρ -a Curve

Location : N/ALAGI

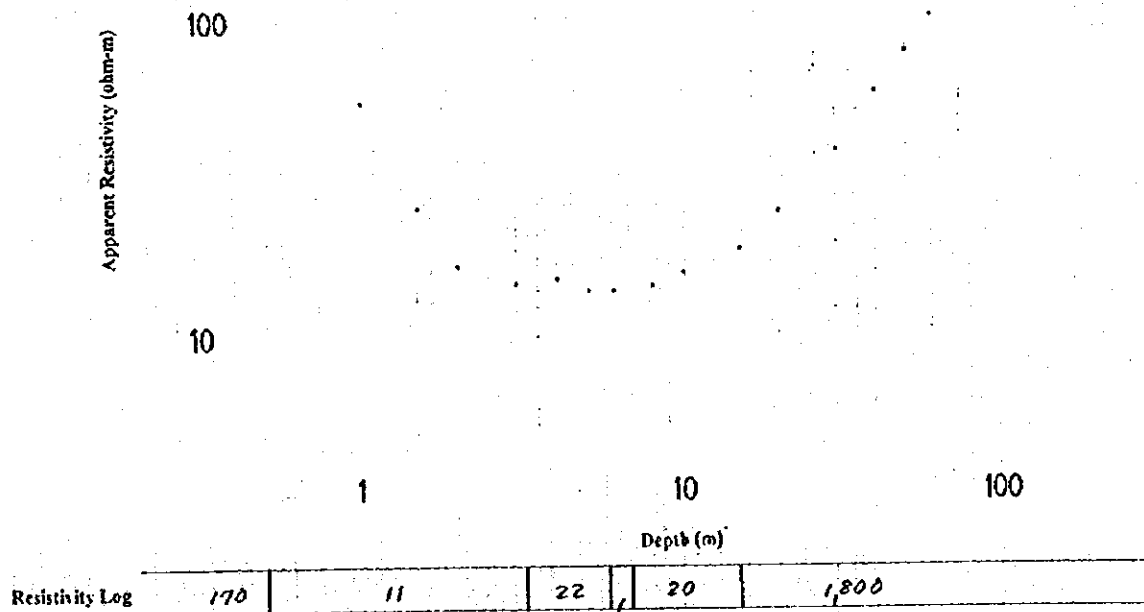
Line No. : Existing 811



Resistivity Sounding ρ -a Curve

Location : MAKUKULU

Line No. :



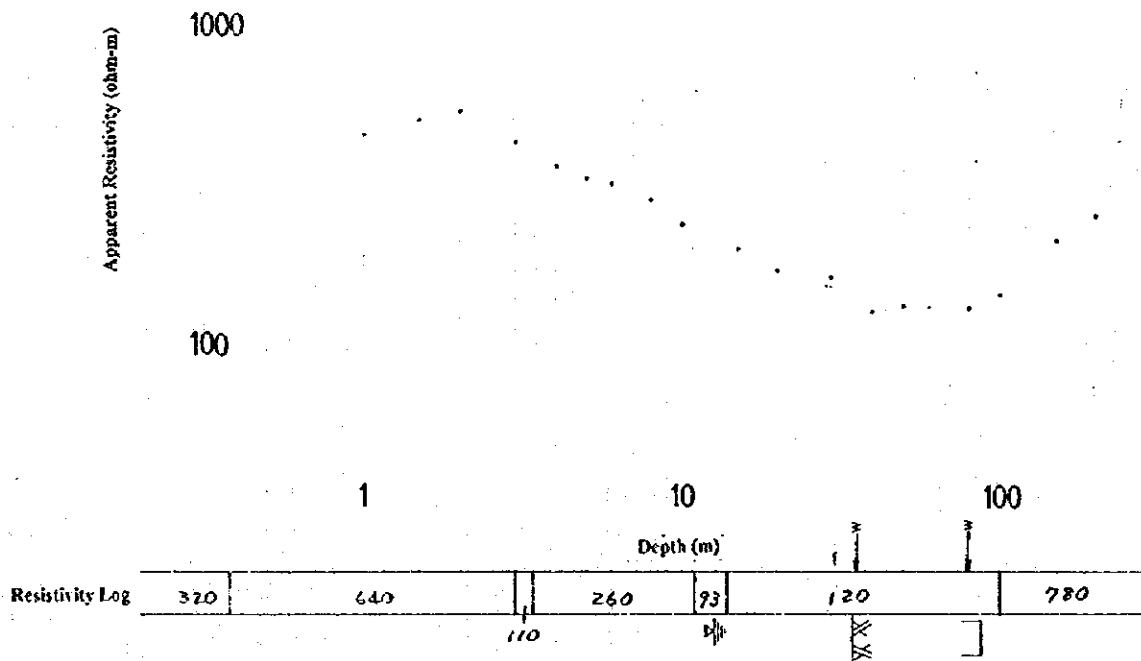
4.3

A-87

Resistivity Sounding ρ -a Curve

Location : MAYMUKI

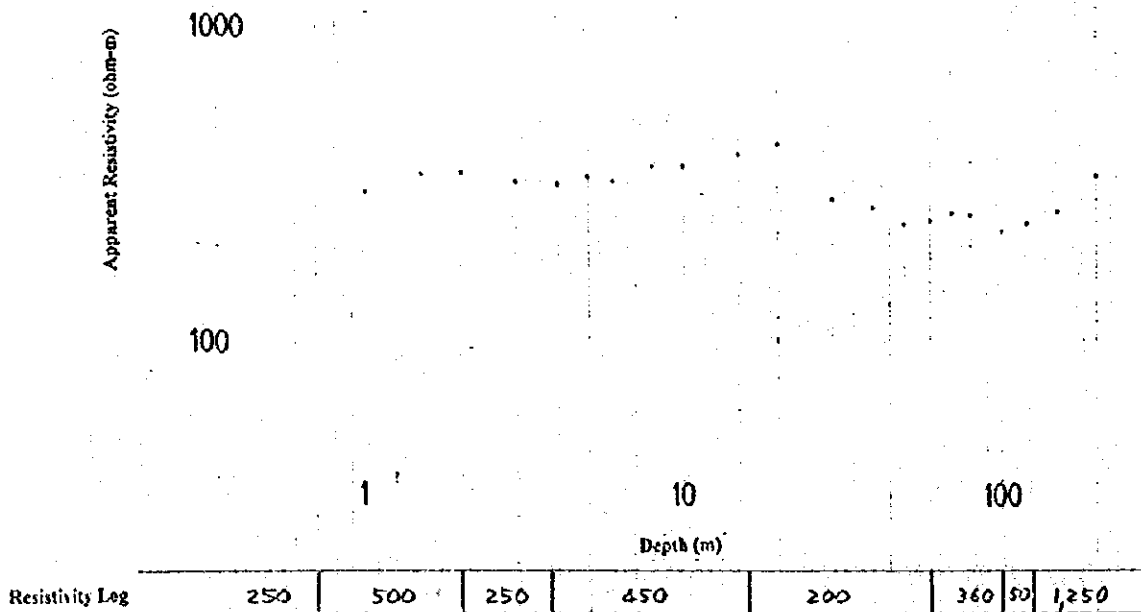
Line No. : Existing BH



Resistivity Sounding ρ -a Curve

Location : BUKANDRA S.S. Sch.

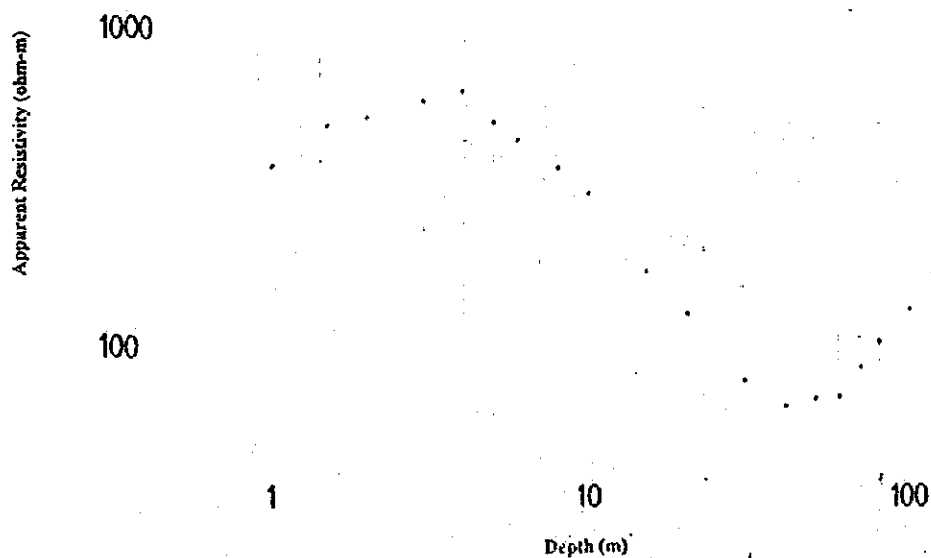
Line No. : 1



Resistivity Sounding ρ -a Curve

Location : BUKANDRA S.S. Sch

Line No. : 2



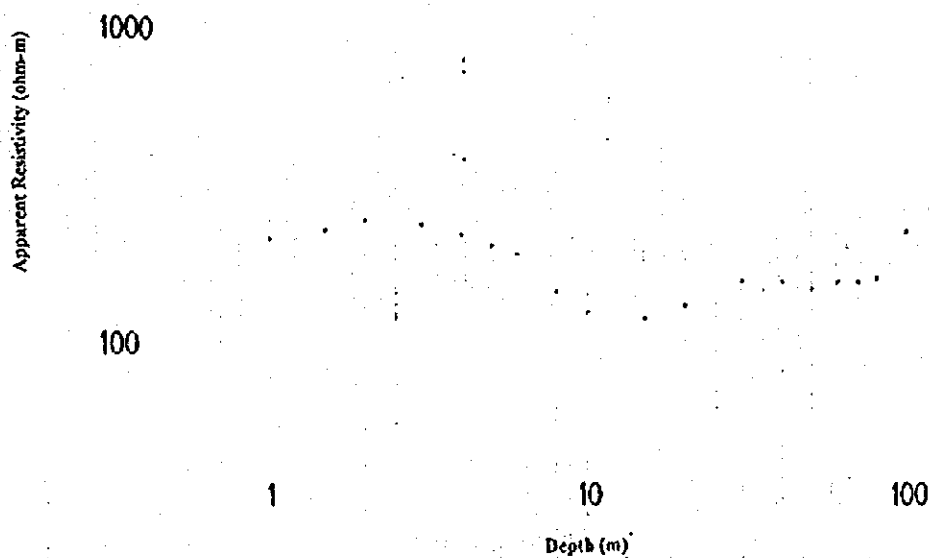
Resistivity Log

400	800	130	39	100	900
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Resistivity Sounding ρ -a Curve

Location : MADDU

Line No. : MADDU-A B1



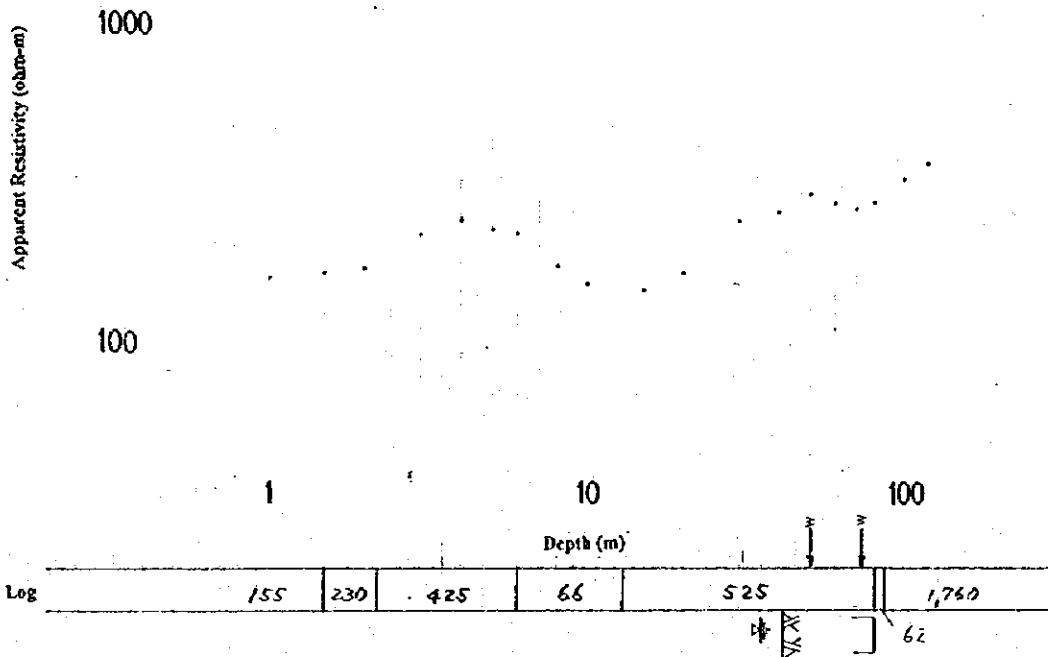
Resistivity Log

200	300	130	86	260	68	270	1600
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Resistivity Sounding ρ -a Curve

Location : MADDU

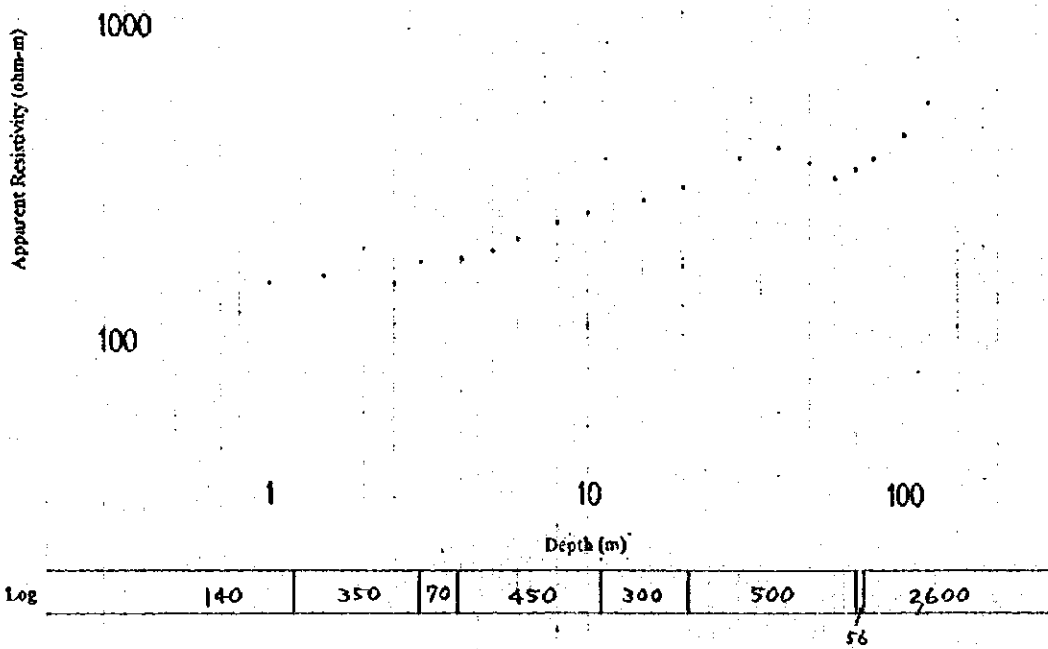
Line No. : MADDU- (S BH)



Resistivity Sounding ρ -a Curve

Location : MANZE

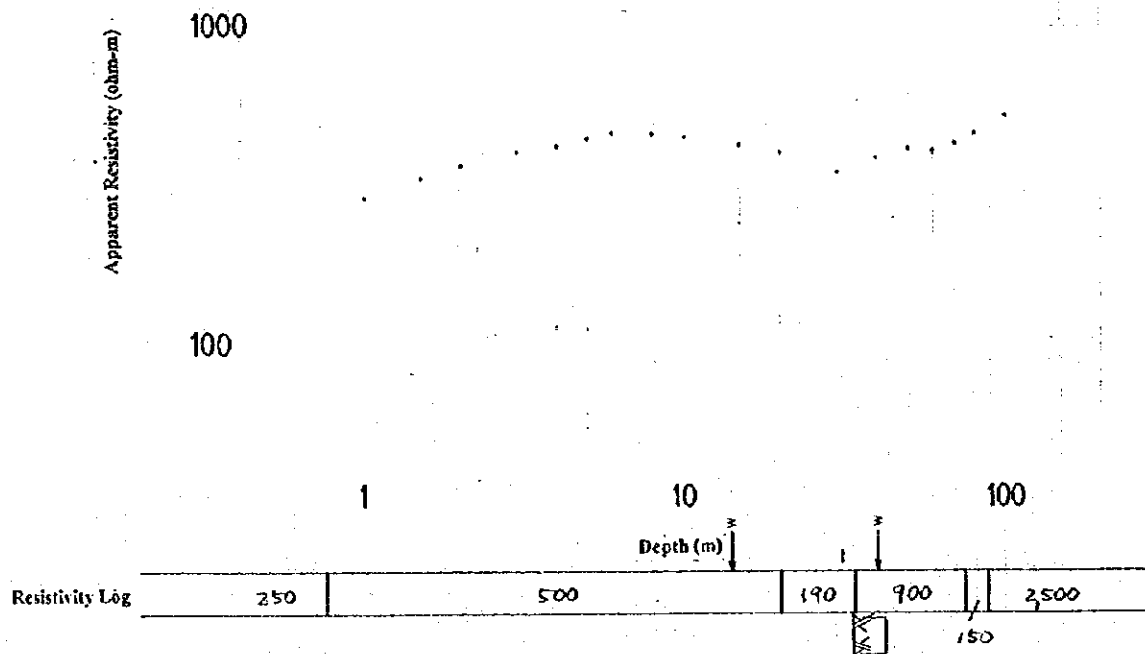
Line No. : Dispensary BH



Resistivity Sounding ρ -a Curve

Location : KATIKAMU

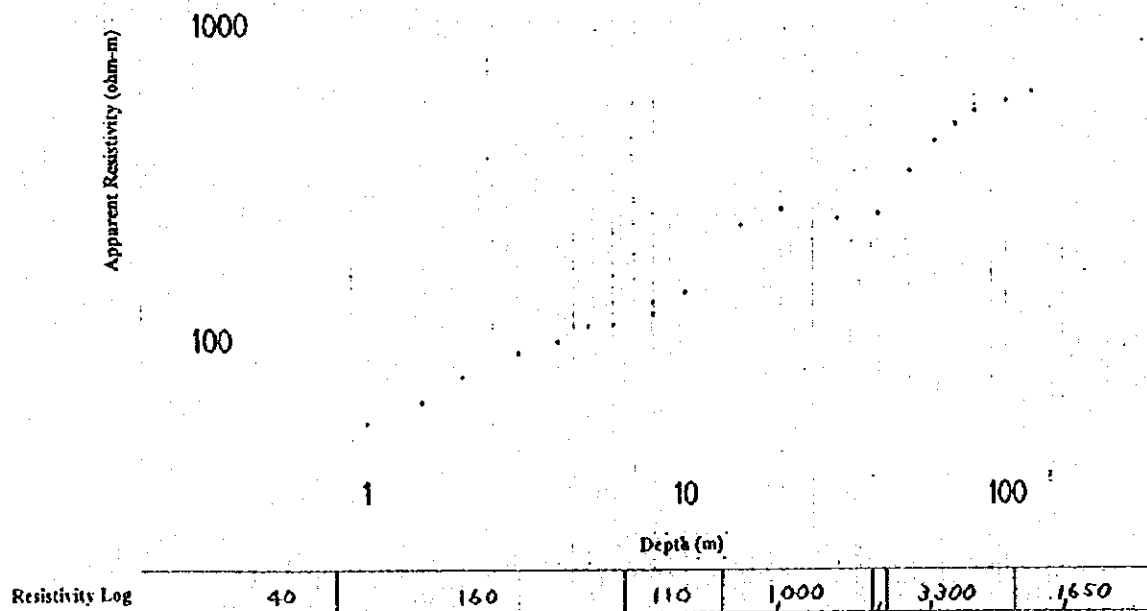
Line No. : Light College BH



Resistivity Sounding ρ -a Curve

Location : MASULITA

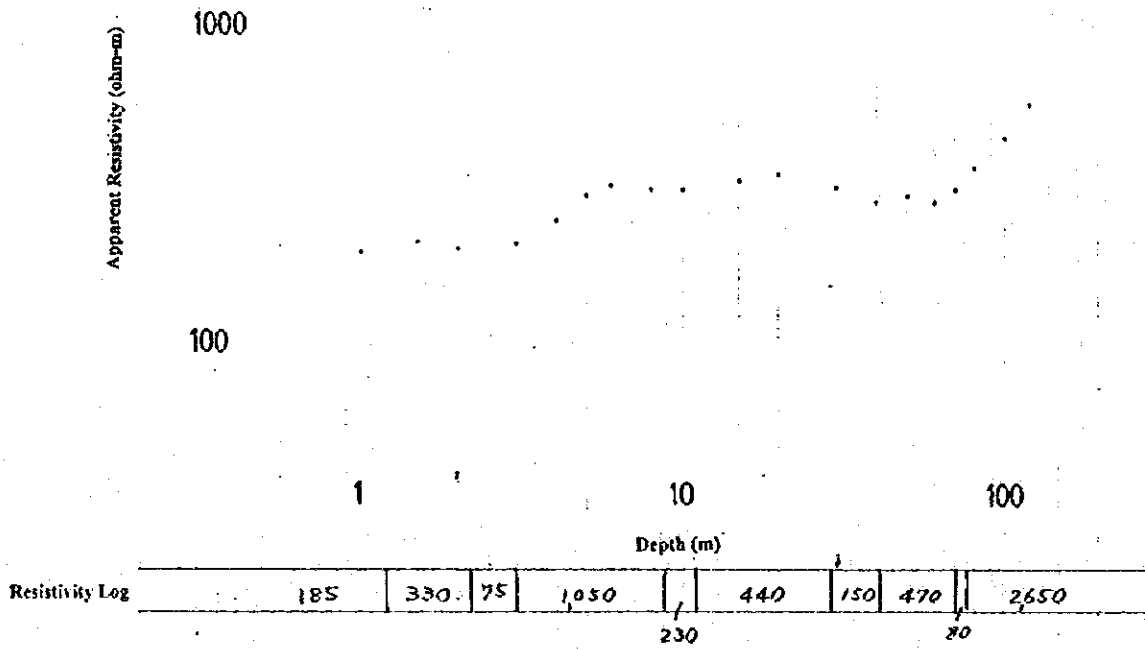
Line No. : Junior Sch. BH



Resistivity Sounding ρ -a Curve

Location : MASULITA

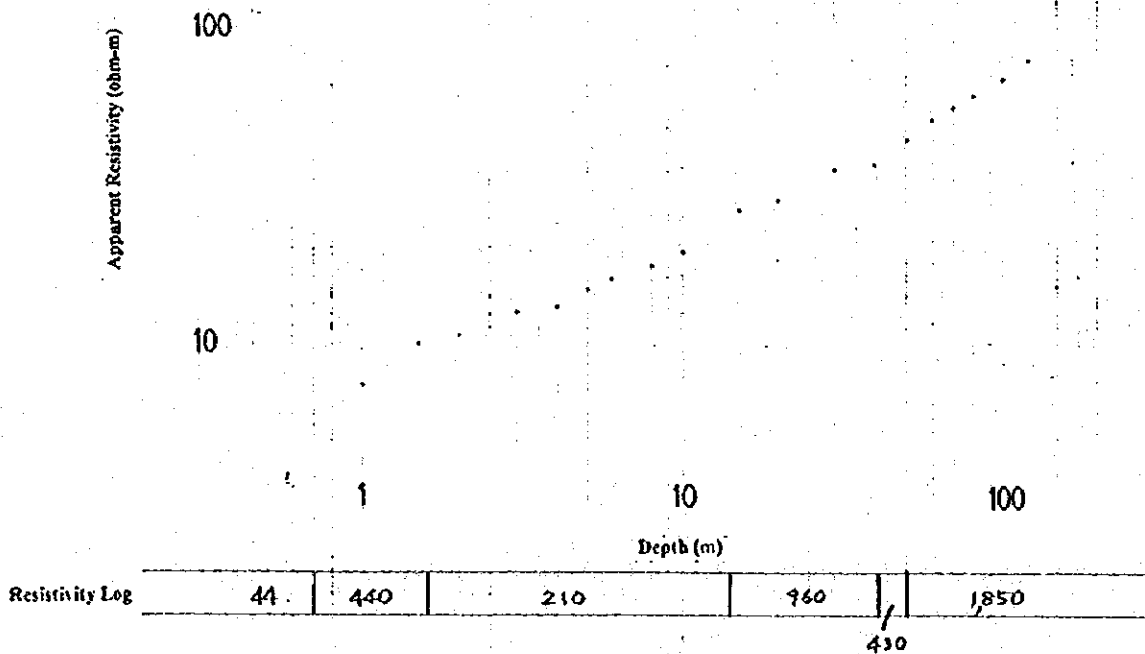
Line No. : SC office B11



Resistivity Sounding ρ -a Curve

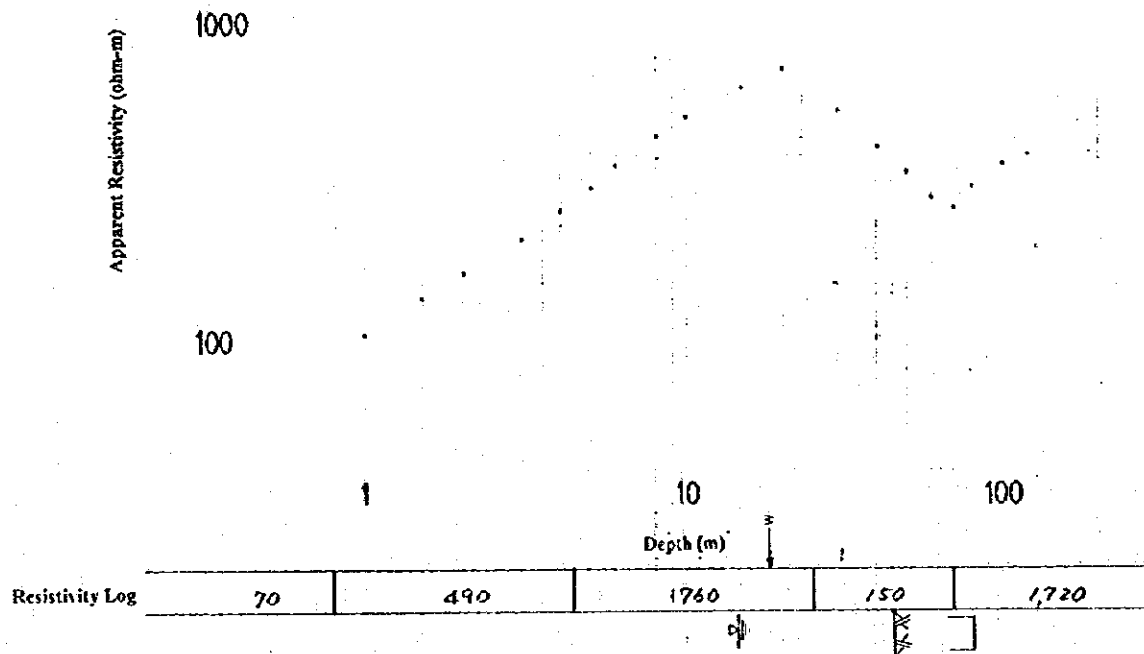
Location : MASULITA

Line No. : UNESO children's village



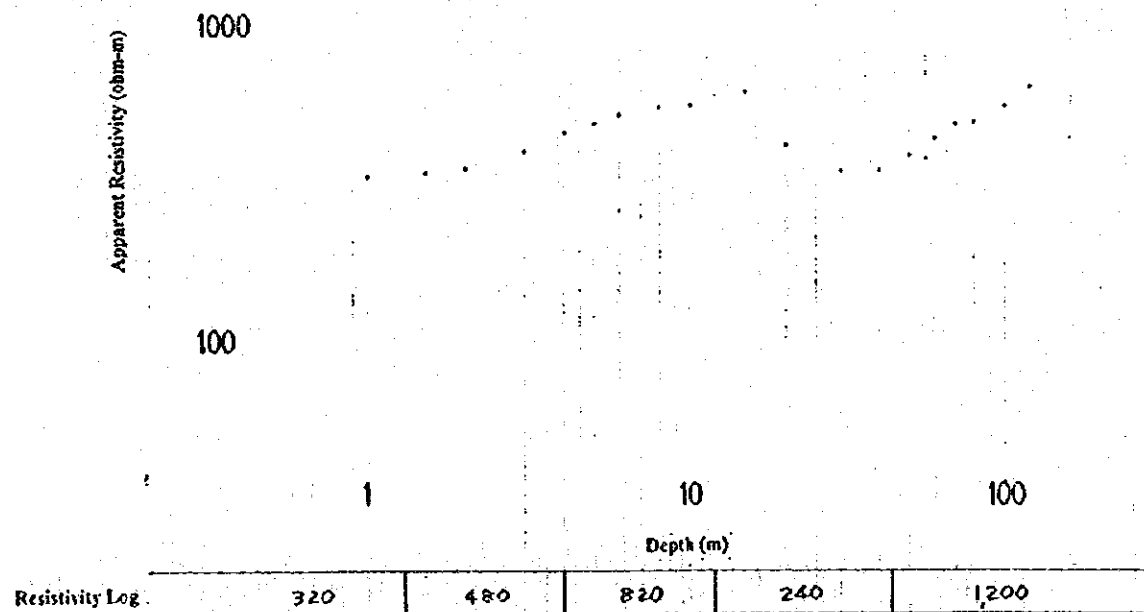
Resistivity Sounding ρ -a Curve

Location : BUKASA
Line No. : Mixed Sch. BH



Resistivity Sounding ρ -a Curve

Location : WAKISO
Line No. : Health Center BH

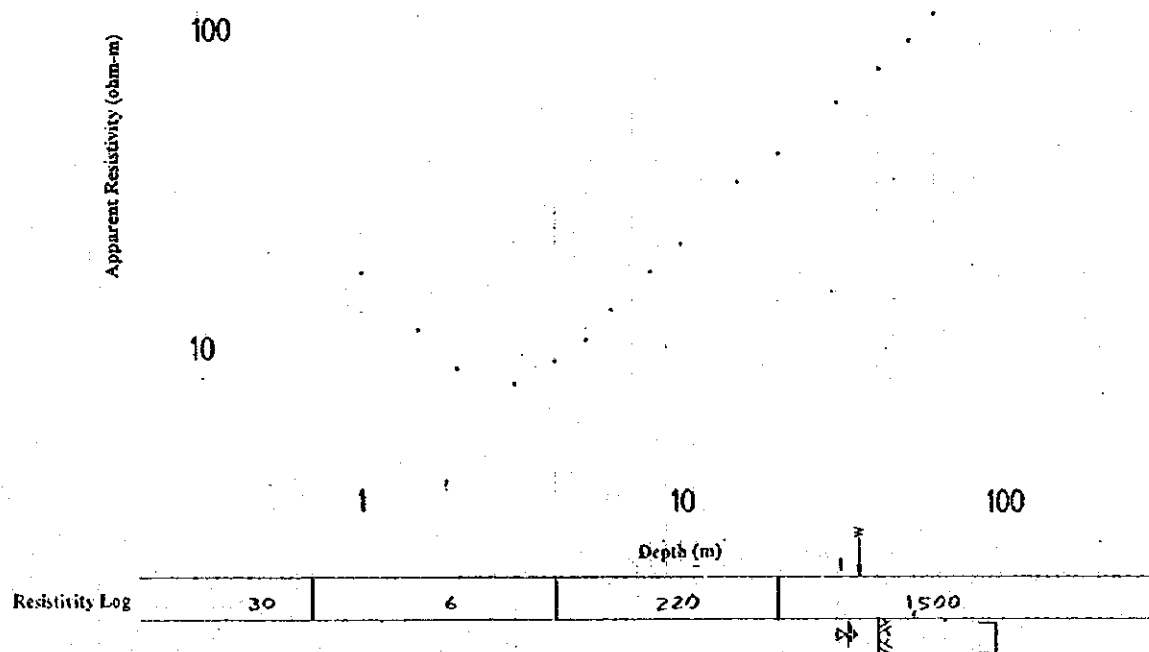


A. 6. 2. 2 Mubende District

Resistivity Sounding ρ -a Curve

Location : JAYANZI

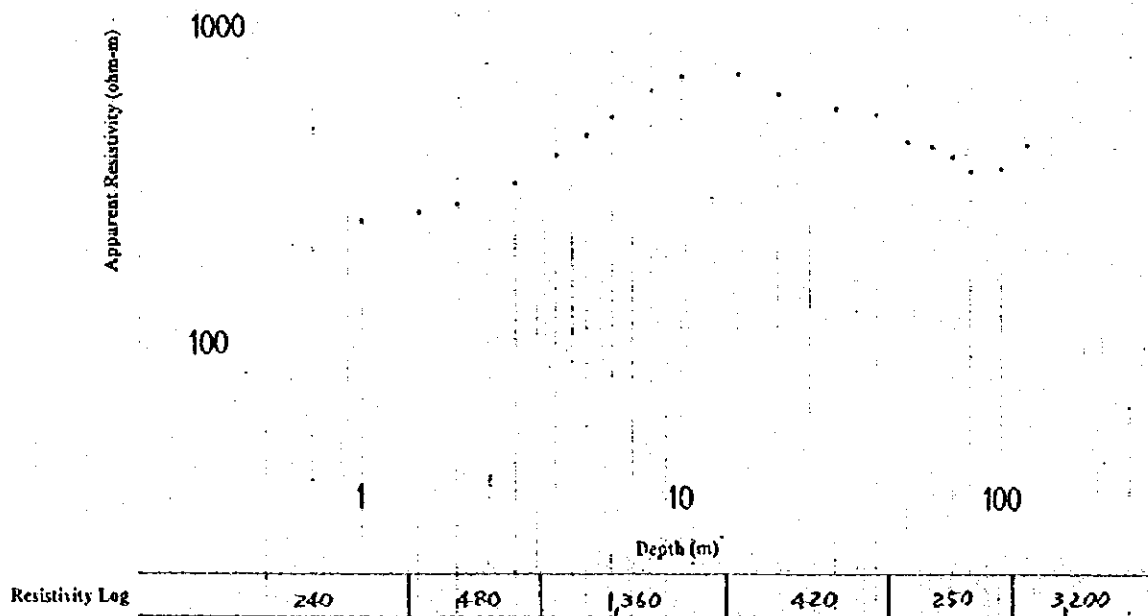
Line No. : Town BH



Resistivity Sounding ρ -a Curve

Location : NALITUNTU

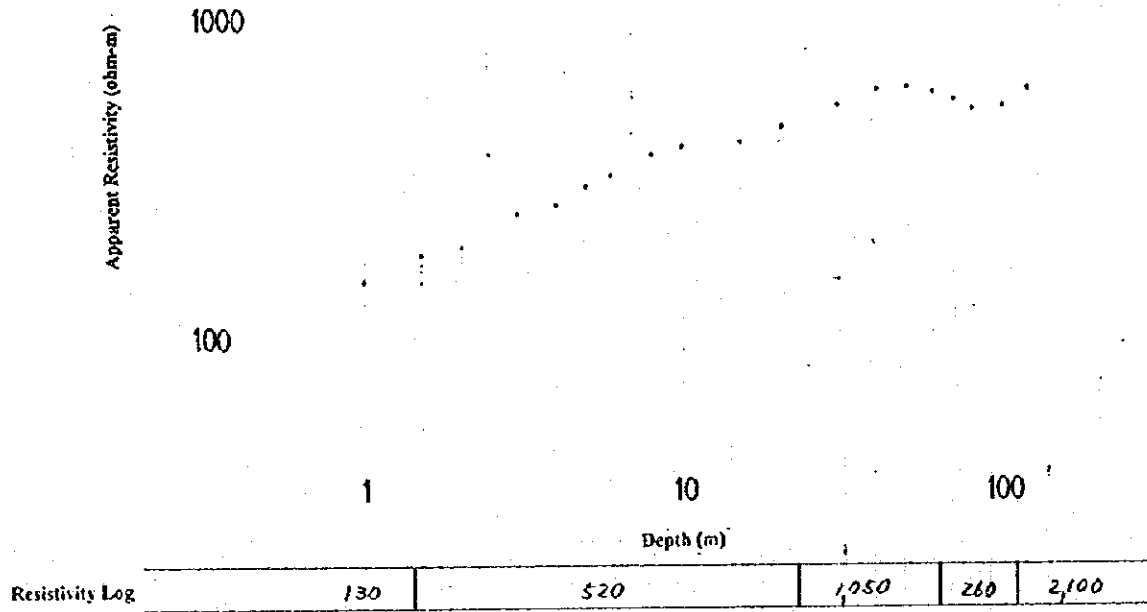
Line No. :



Resistivity Sounding ρ -a Curve

Location : KITALERWA

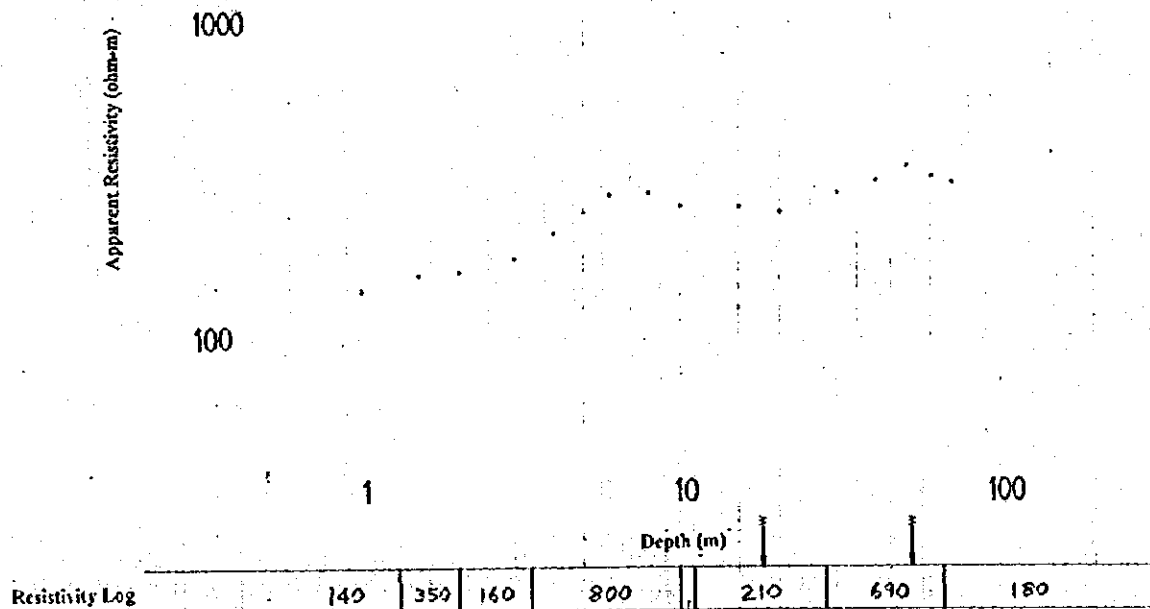
Line No. :



Resistivity Sounding ρ -a Curve

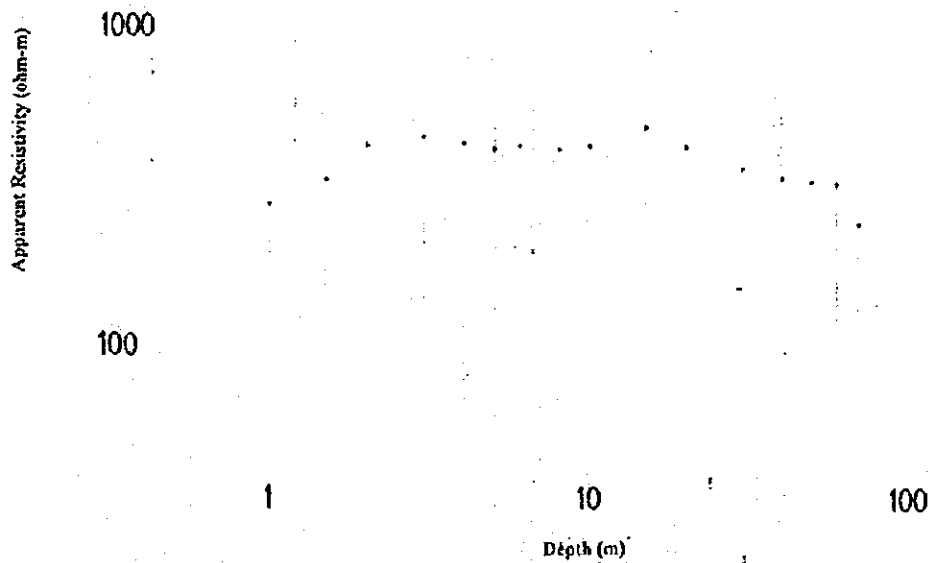
Location : MJTYANA HOSPITAL

Line No. : WDD 1988



Resistivity Sounding ρ -a Curve

Location : MITYANA HOSPITAL
Line No. : WDD 1990



Resistivity Log

290

1200

310

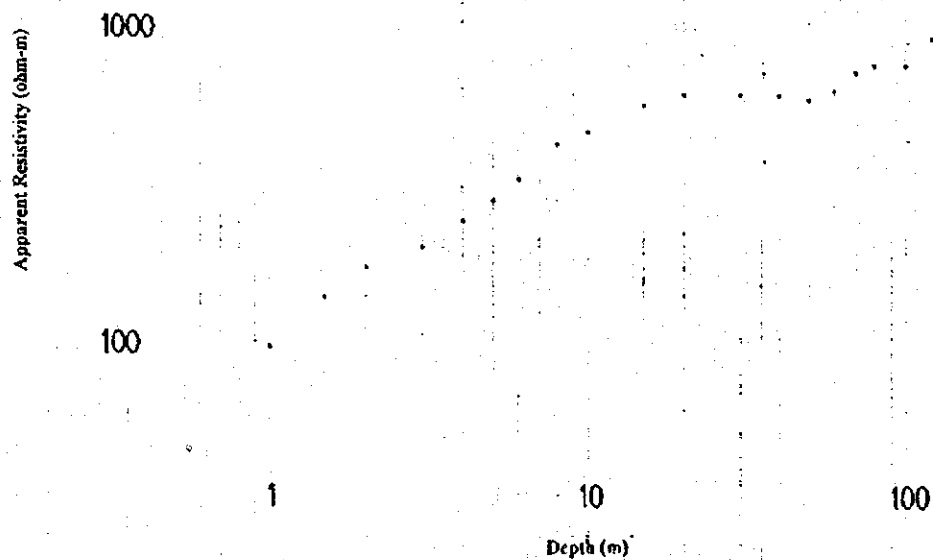
740

240

270

Resistivity Sounding ρ -a Curve

Location : MIZIHO
Line No. :



Resistivity Log

55

1100

880

420

1590

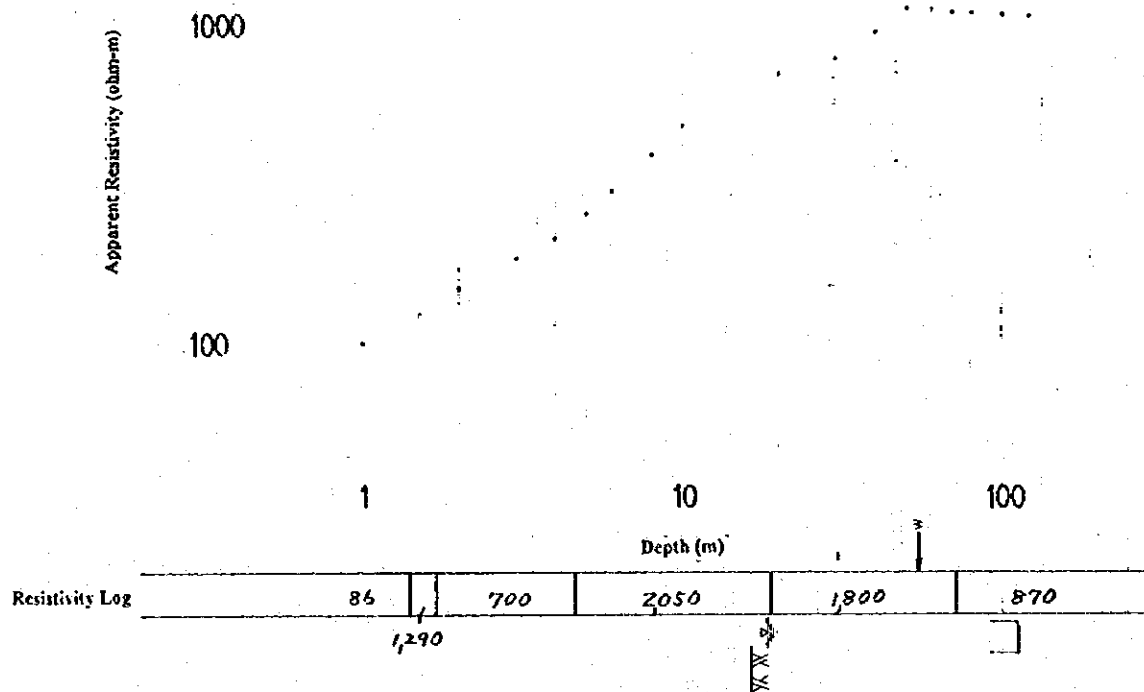
940

3800

Resistivity Sounding ρ -a Curve

Location : KANUVIAMA

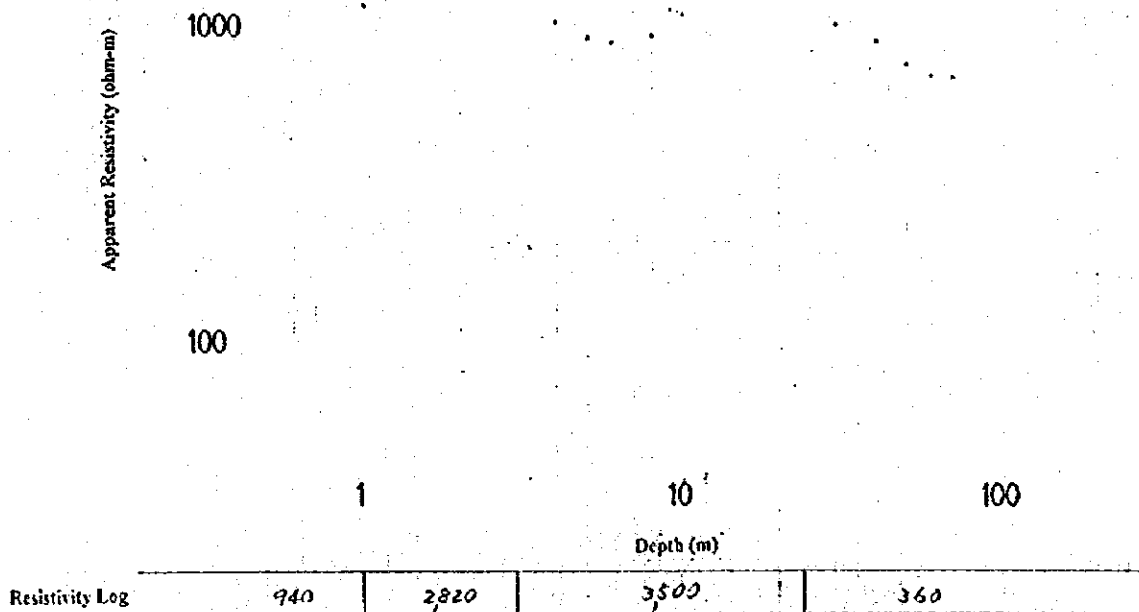
Line No. :



Resistivity Sounding ρ -a Curve

Location : BBUYE P.Sch.

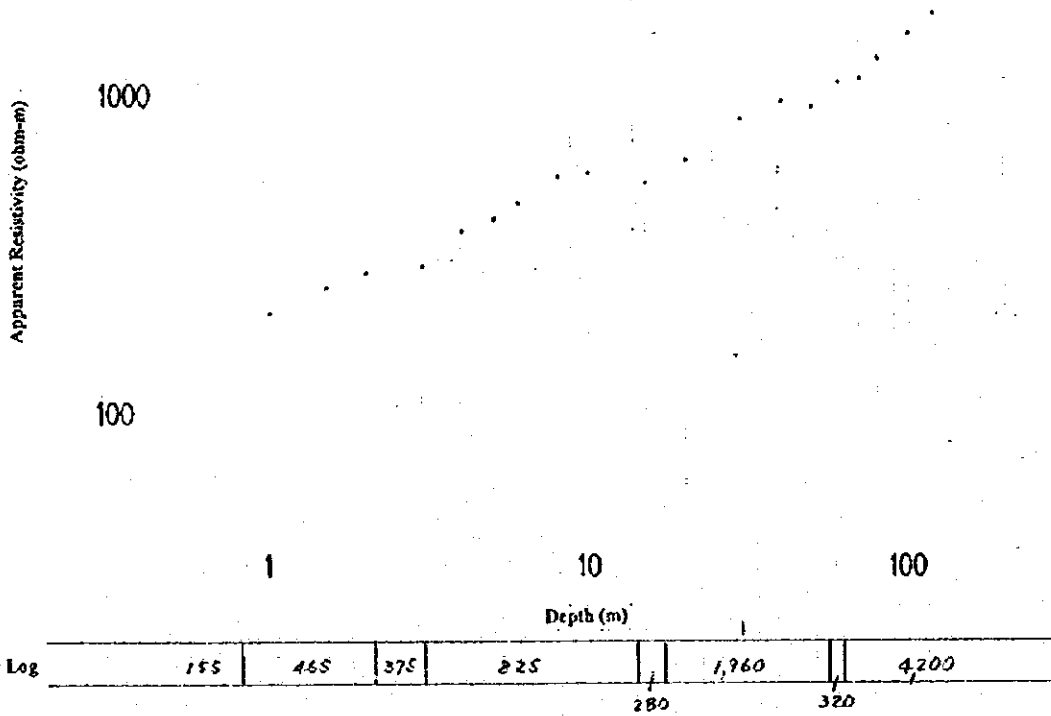
Line No. :



Resistivity Sounding ρ -a Curve

Location : BUSUWERA P. Sch.

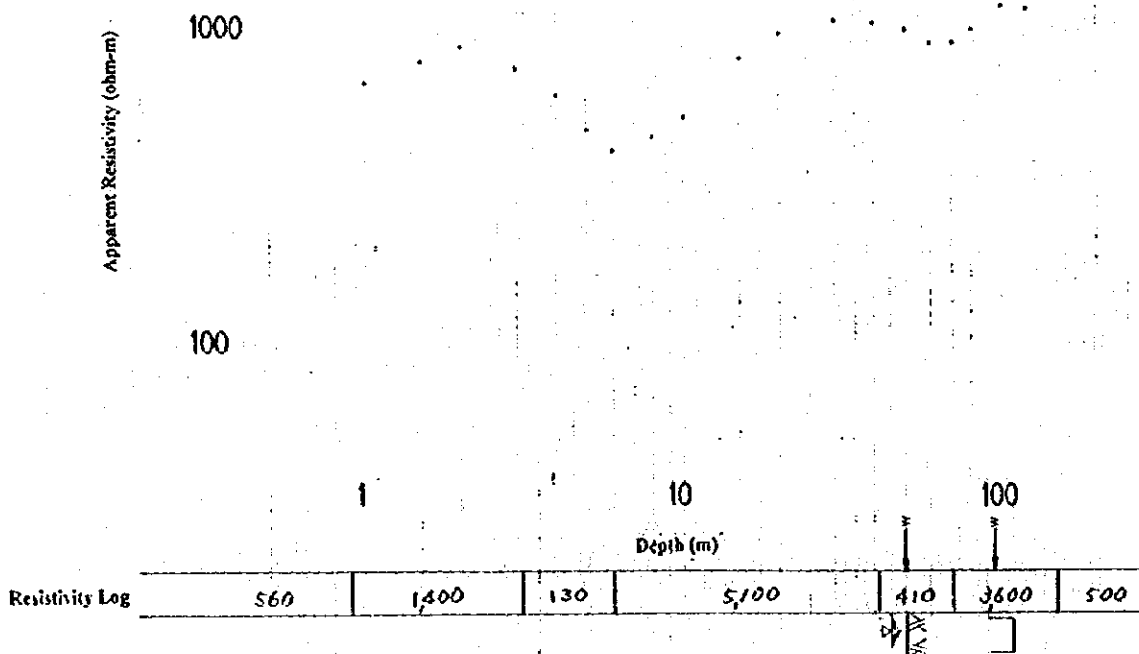
Line No. : WDD 4360



Resistivity Sounding ρ -a Curve

Location : LWABAGABO P. Sch.

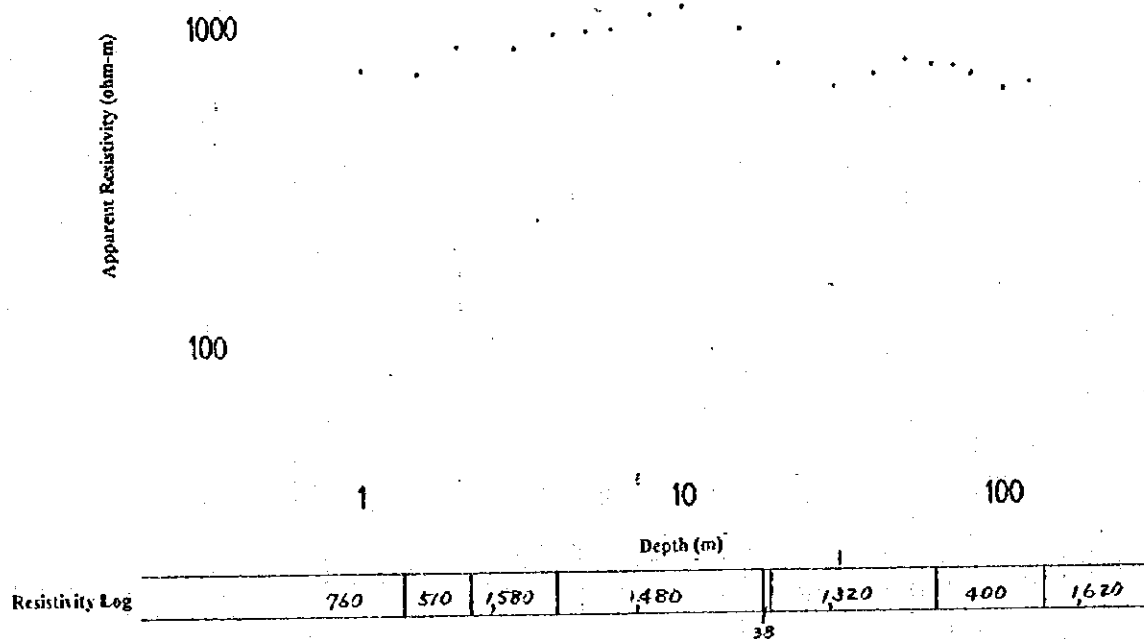
Line No. : WDD 4323



Resistivity Sounding ρ -a Curve

Location : DEBEZA

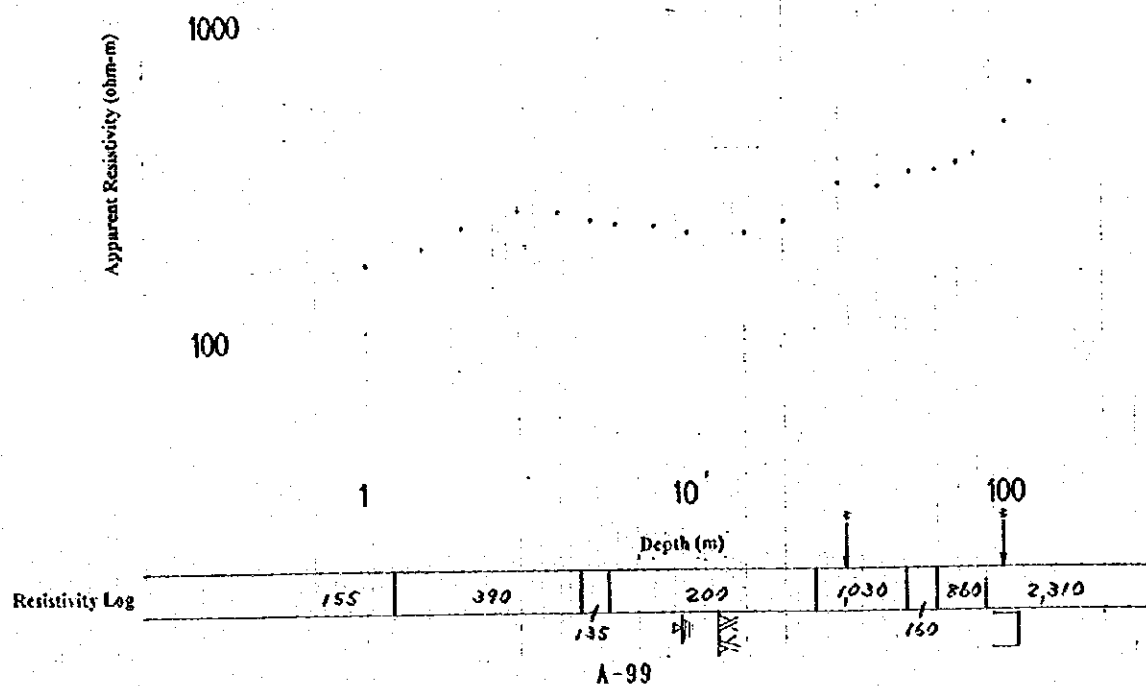
Line No. : GS 635



Resistivity Sounding ρ -a Curve

Location : KALONGA

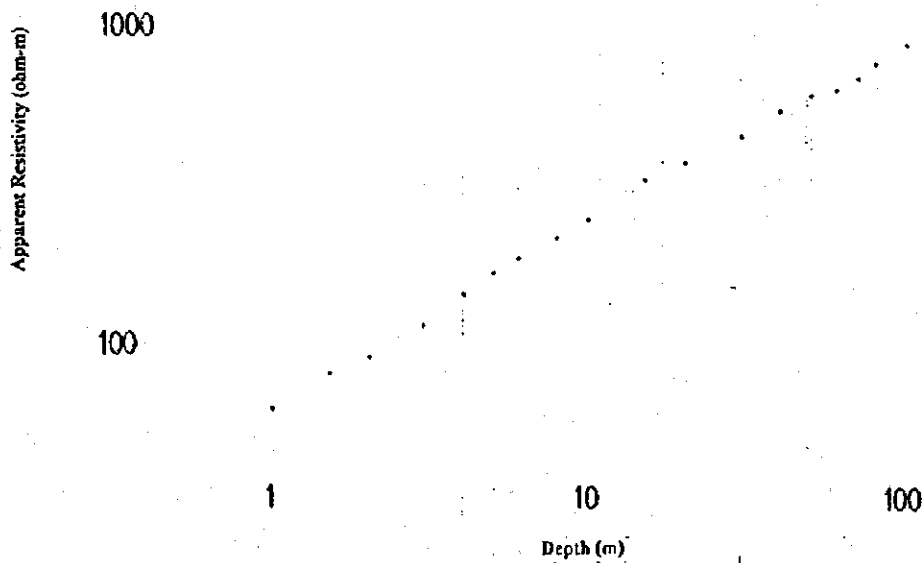
Line No. :



Resistivity Sounding ρ -a Curve

Location : KATAMBANGA

Line No. :



Resistivity Log

52

260

550

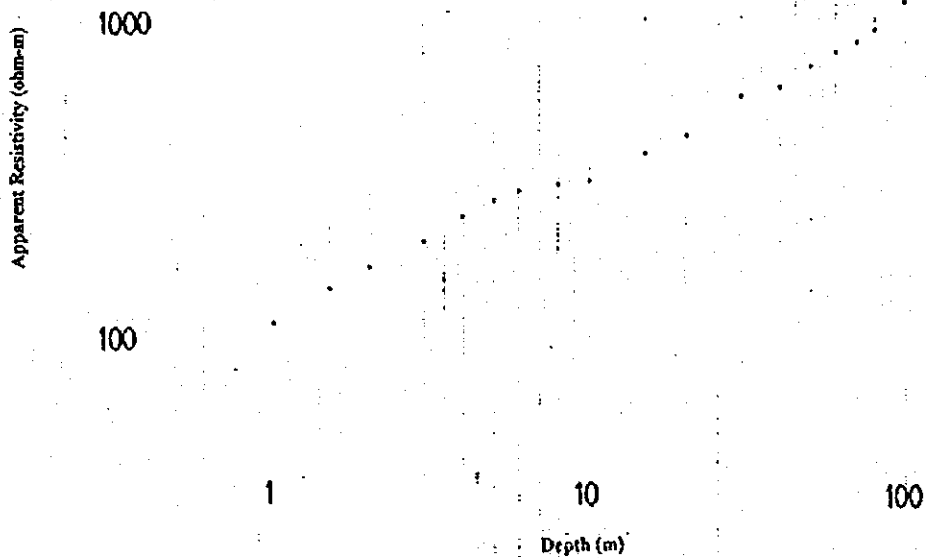
920

3150

Resistivity Sounding ρ -a Curve

Location : MADJDU CATHOLIC P. Sch.

Line No. : WDD 4300



Resistivity Log

70

450

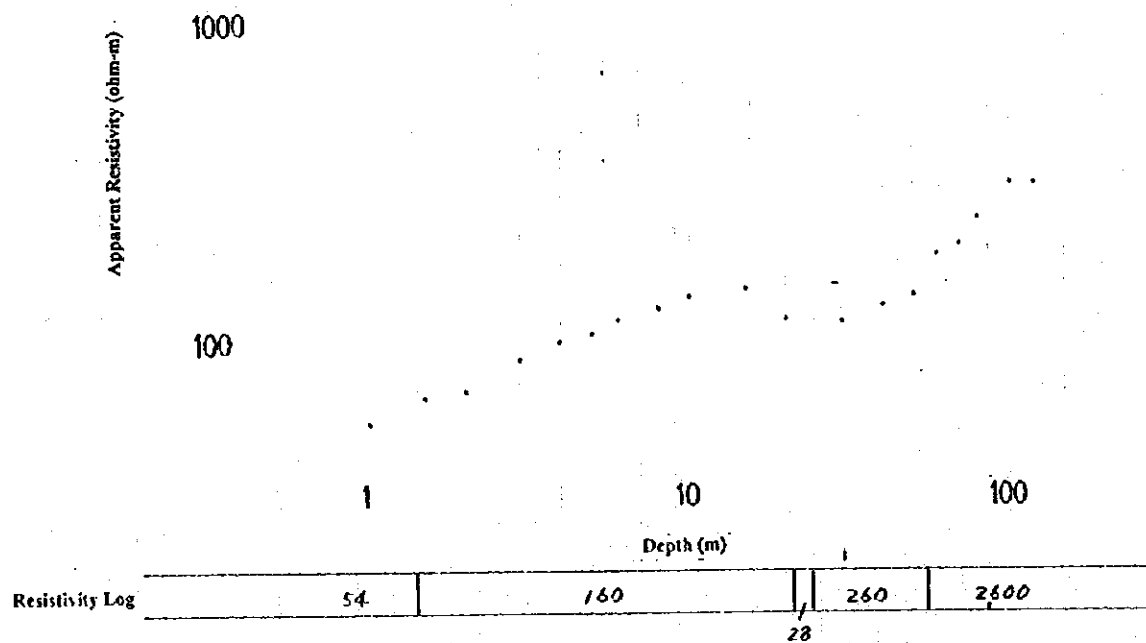
2000

5100

Resistivity Sounding ρ -a Curve

Location : MUBENDE BARRACKS

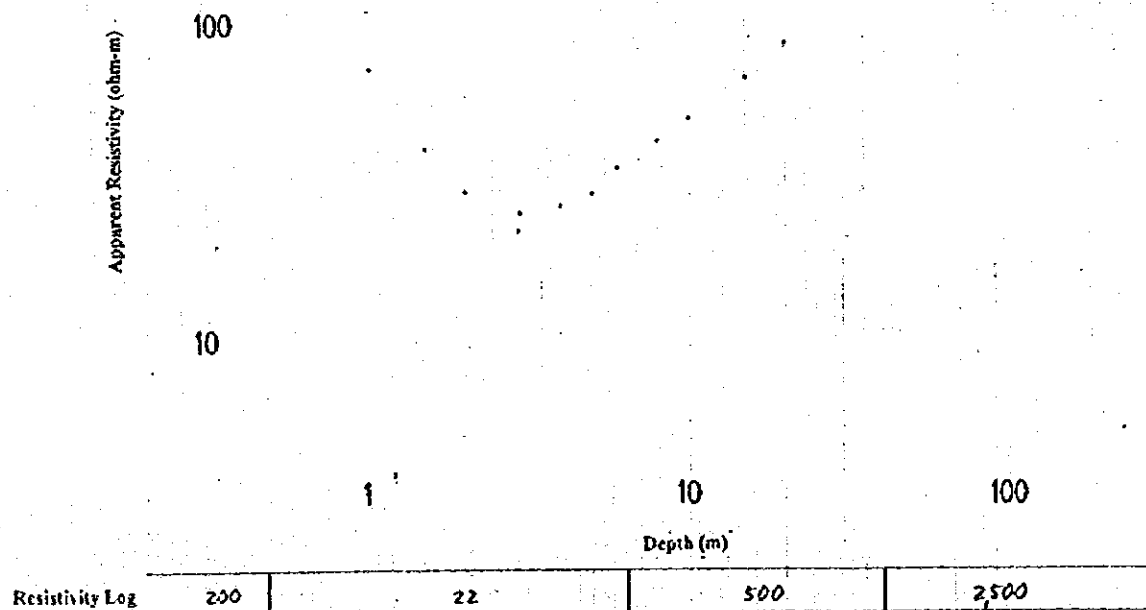
Line No. : WDD 1441



Resistivity Sounding ρ -a Curve

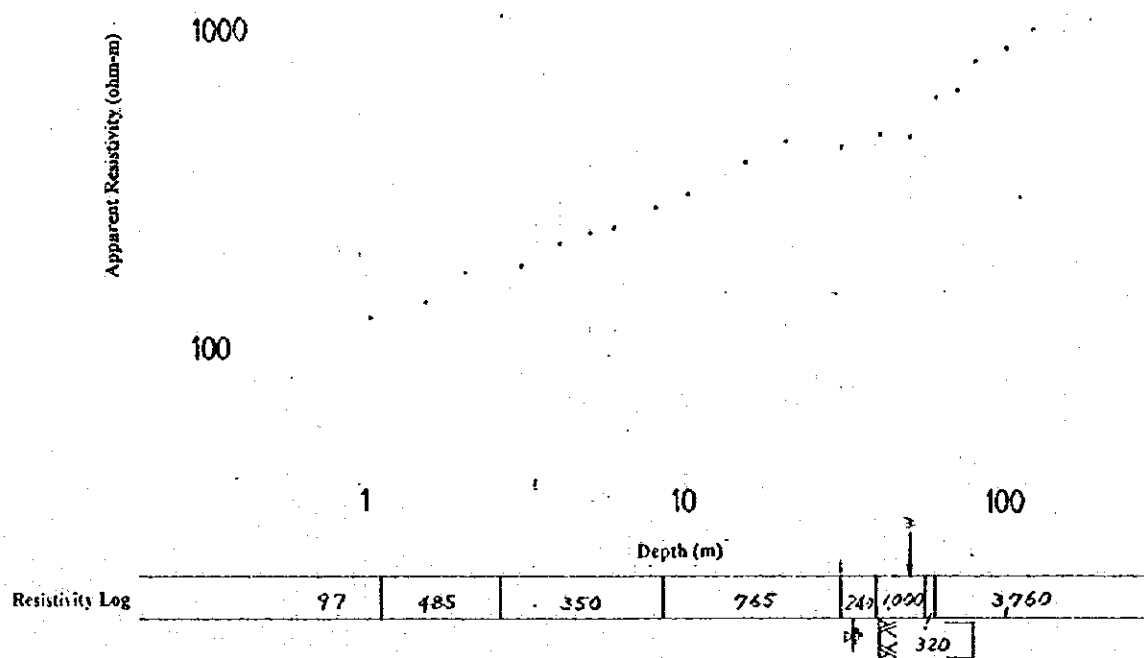
Location : RWENTHAMA

Line No. : CD 1030



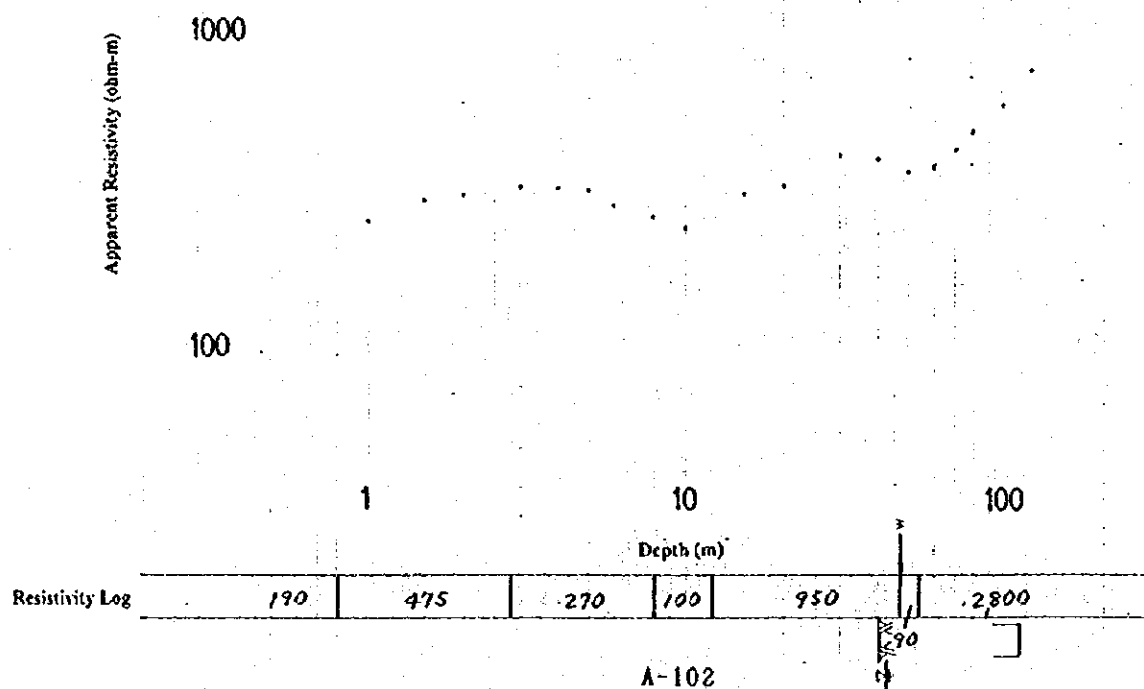
Resistivity Sounding ρ -a Curve

Location : KAWUOLA P. Sch.
Line No. : GS 638



Resistivity Sounding ρ -a Curve

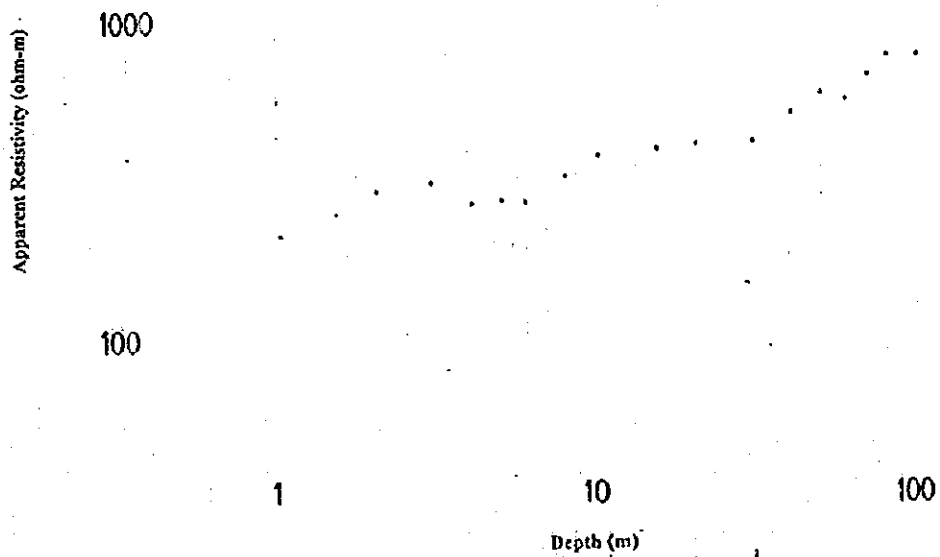
Location : NAMA6040
Line No. : GS 627



Resistivity Sounding ρ -a Curve

Location : KITYUNI T/C

Line No. :



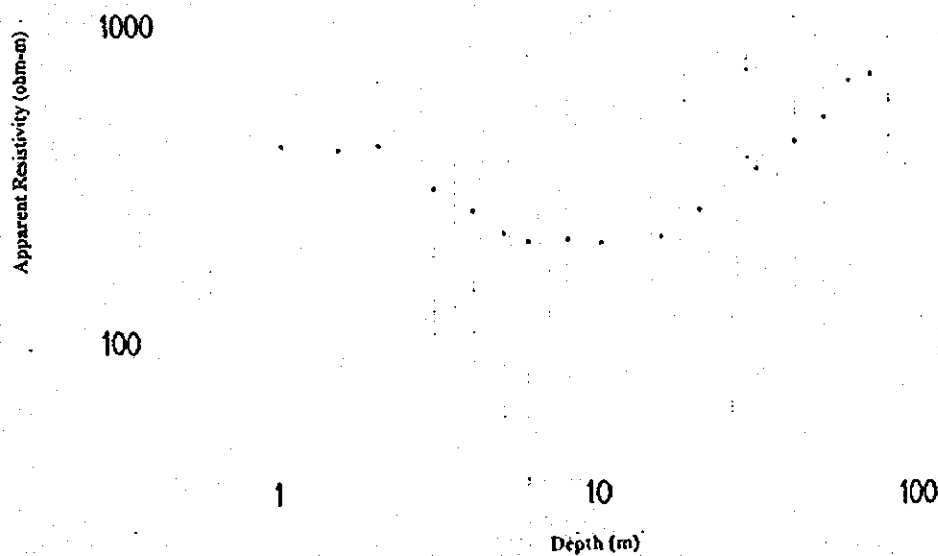
Resistivity Log

150	450	160	1,580	560	900	2700	3650
					390	770	

Resistivity Sounding ρ -a Curve

Location : LWEMKOMAGO

Line No. :



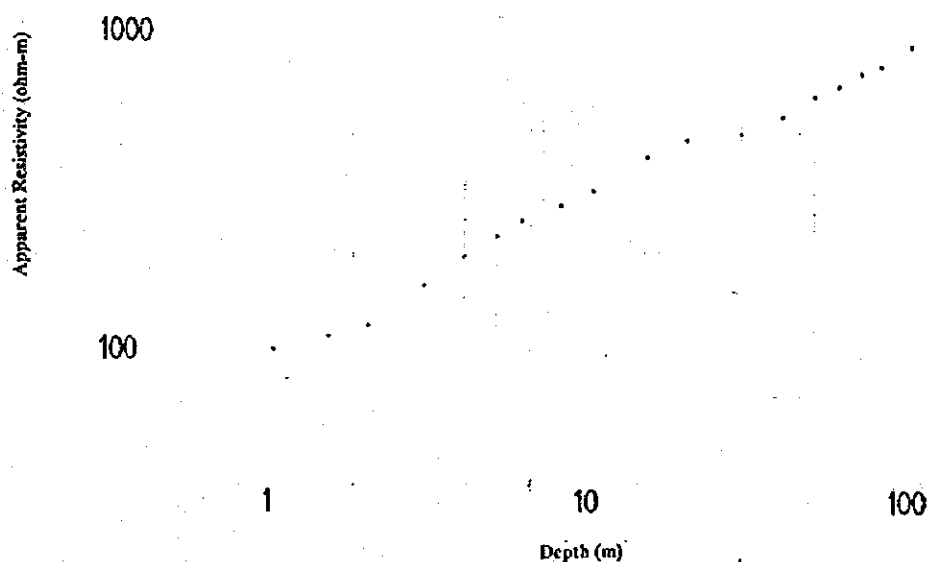
Resistivity Log

420	320	460	130	220	140	1750	1350
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Resistivity Sounding ρ -a Curve

Location : MAKONZI

Line No. :



Resistivity Log

83

170

615

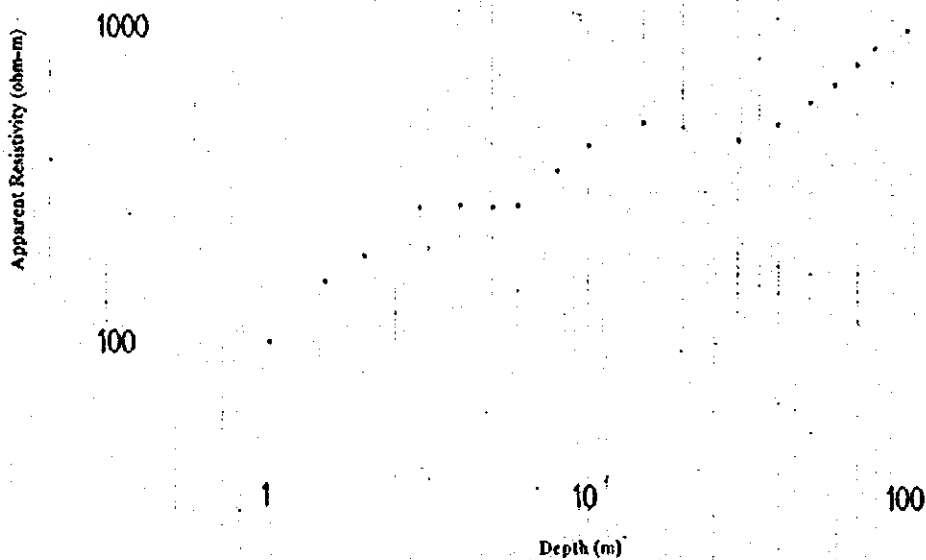
660

2600

Resistivity Sounding ρ -a Curve

Location : MIREMBE

Line No. :



Resistivity Log

80

800

245

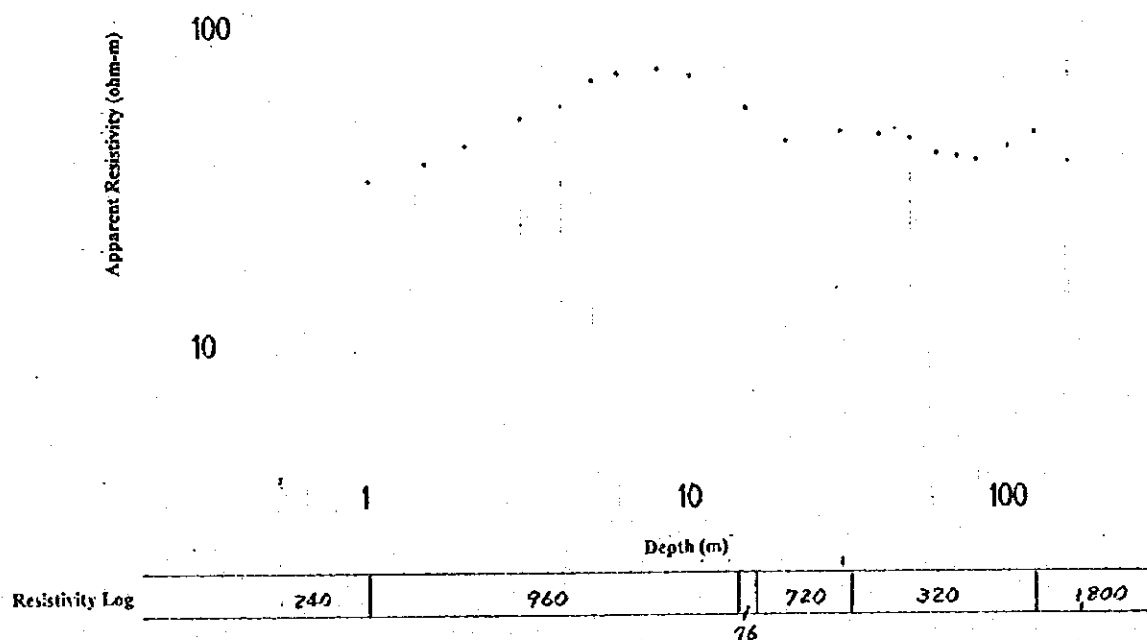
1,040

220

3600

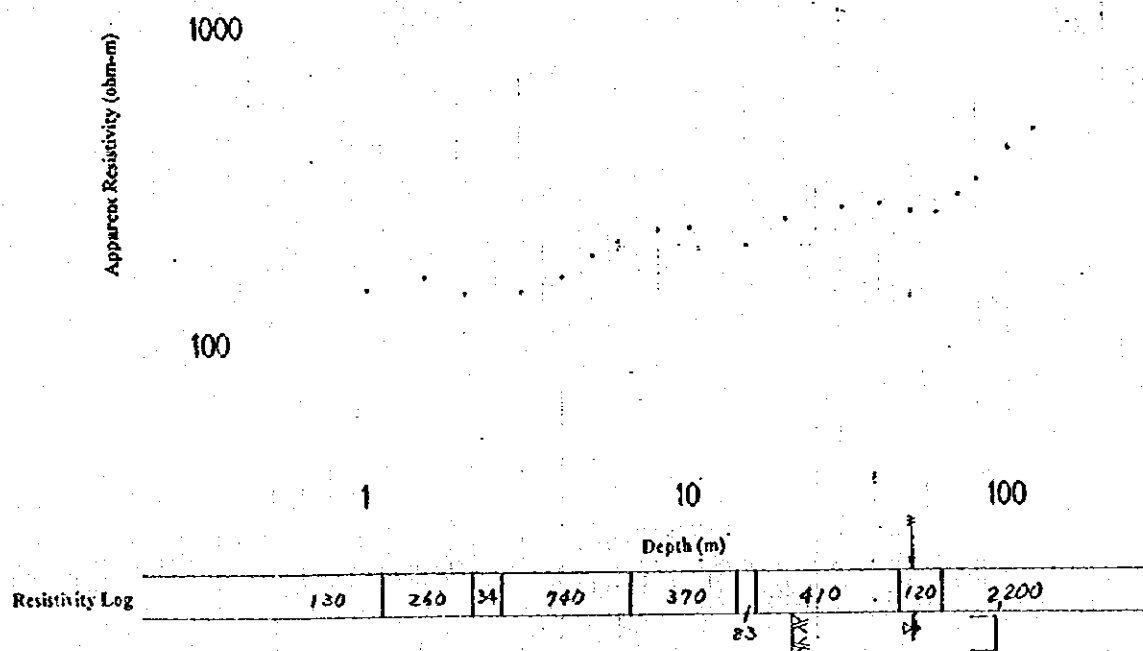
Resistivity Sounding ρ -a Curve

Location : KASSANDA Health Cent.
Line No. : _____



Resistivity Sounding ρ -a Curve

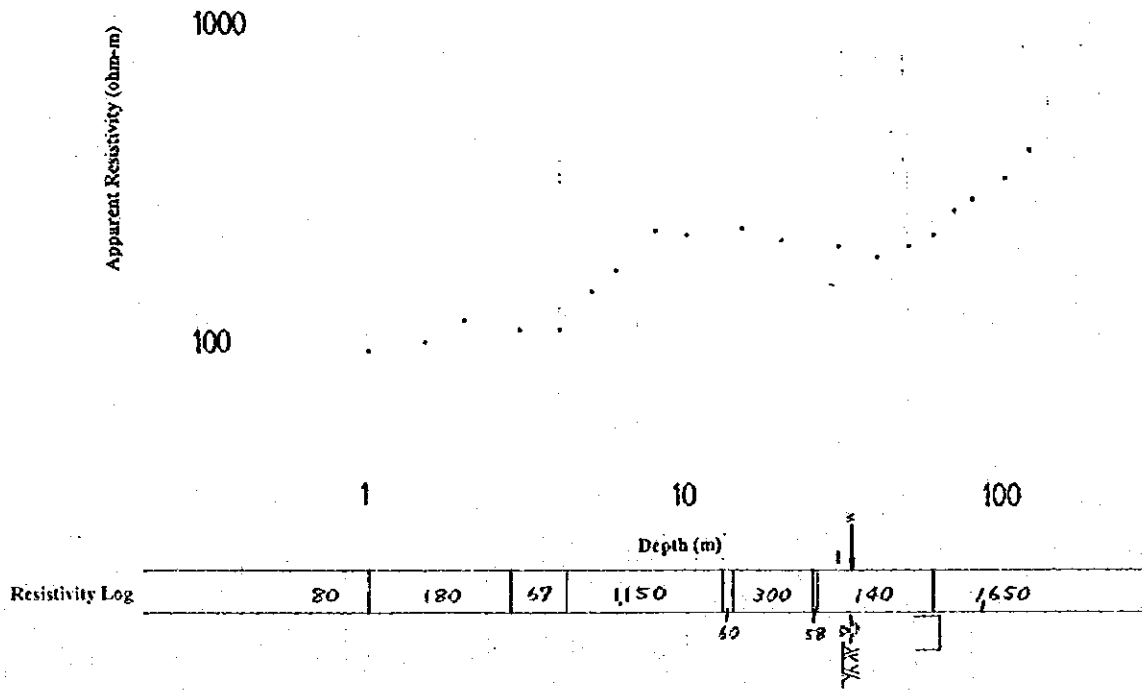
Location : KASSANDA T/C
Line No. : _____



Resistivity Sounding ρ -a Curve

Location : KAWUNGERA (KIGANDA HC)

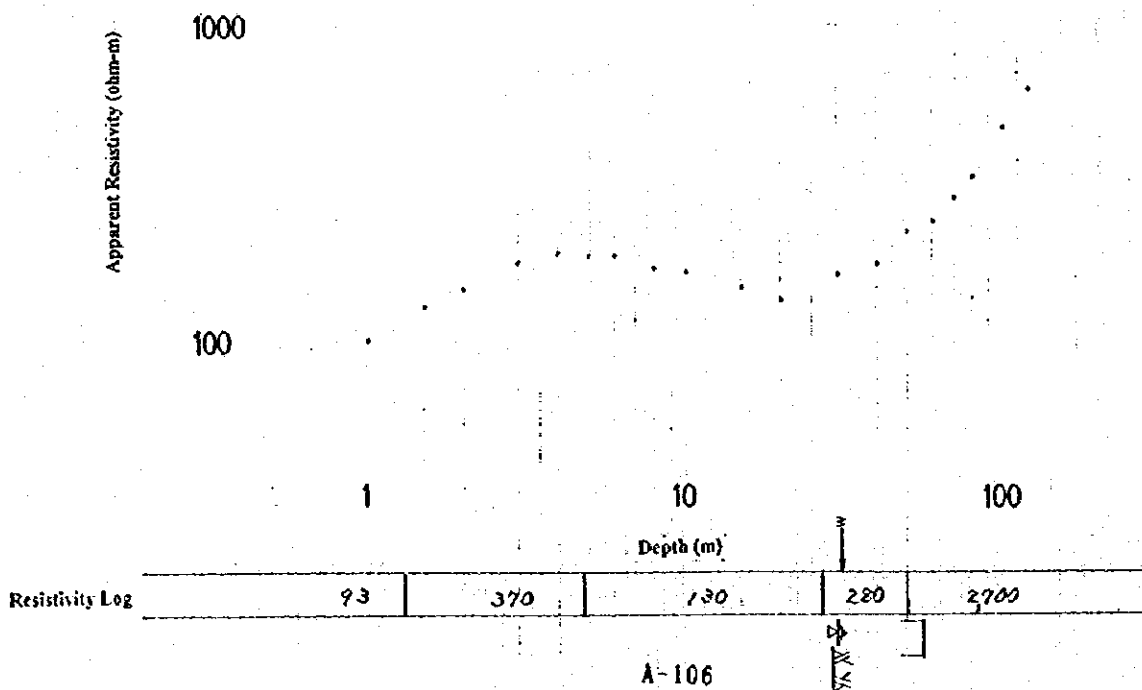
Line No. :



Resistivity Sounding ρ -a Curve

Location : KISIZILI

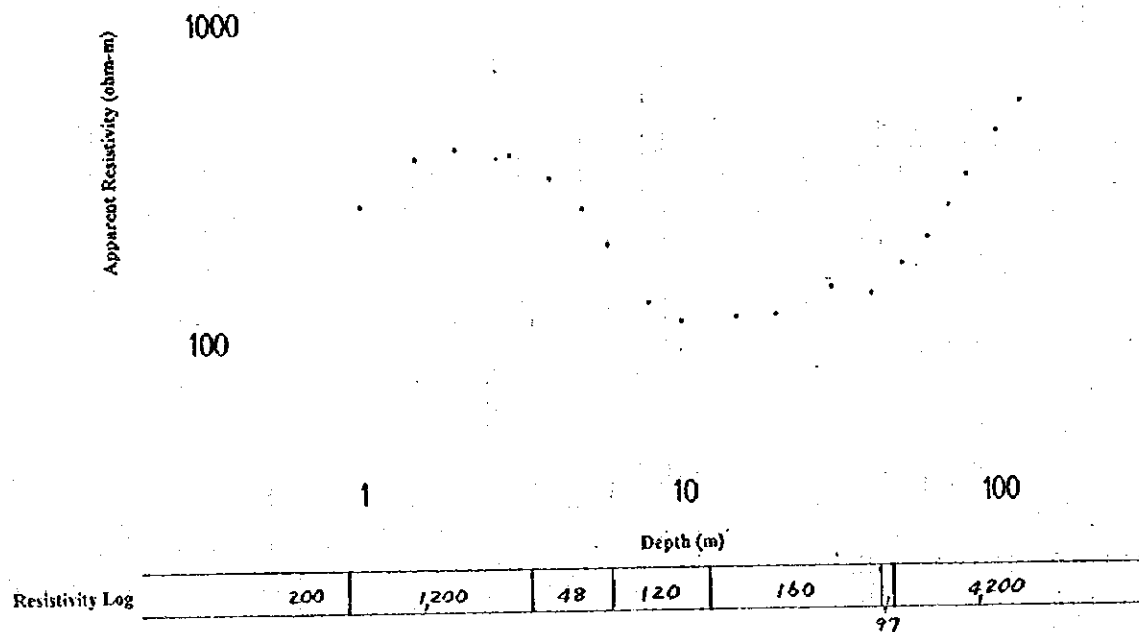
Line No. : GS 601



Resistivity Sounding ρ -a Curve

Location : NAKASAGA

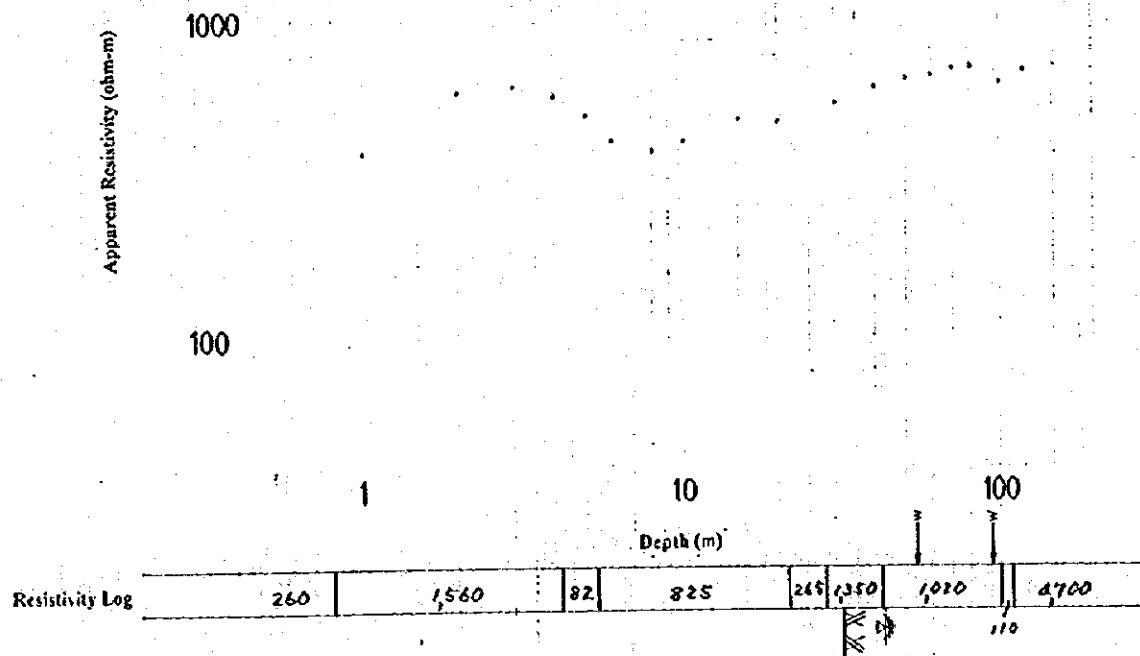
Line No. :



Resistivity Sounding ρ -a Curve

Location : KASAMBYA H.C.

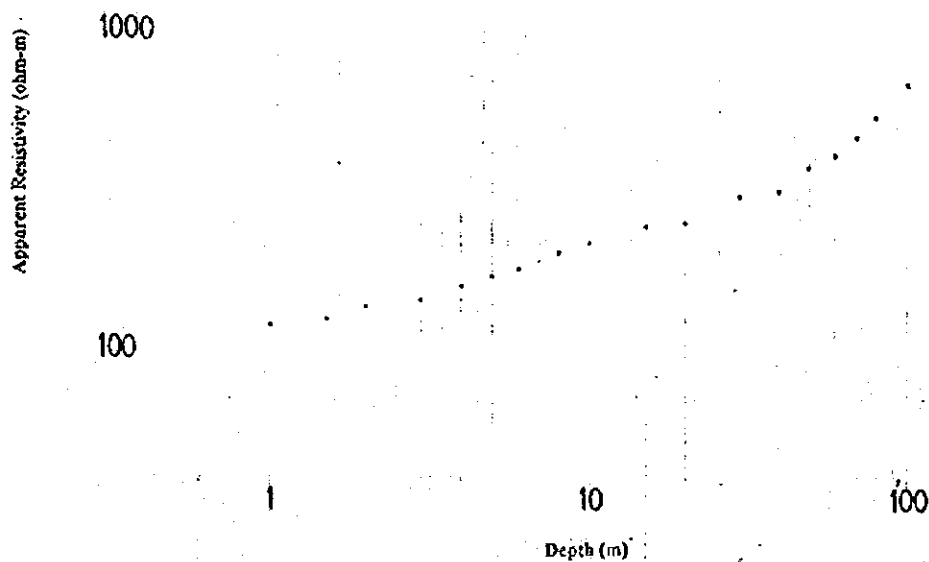
Line No. : WDD 7777



Resistivity Sounding ρ -a Curve

Location : KIBALINGA P. Sch.

Line No. : WDD 1437



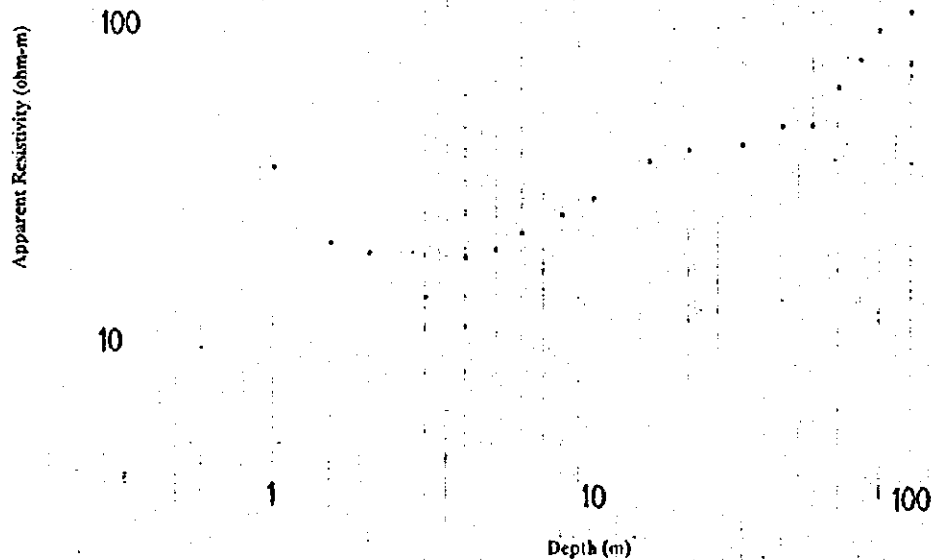
Resistivity Log

110	220	170	310	405	3300
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Resistivity Sounding ρ -a Curve

Location : KIWUMULO

Line No. : GS 499



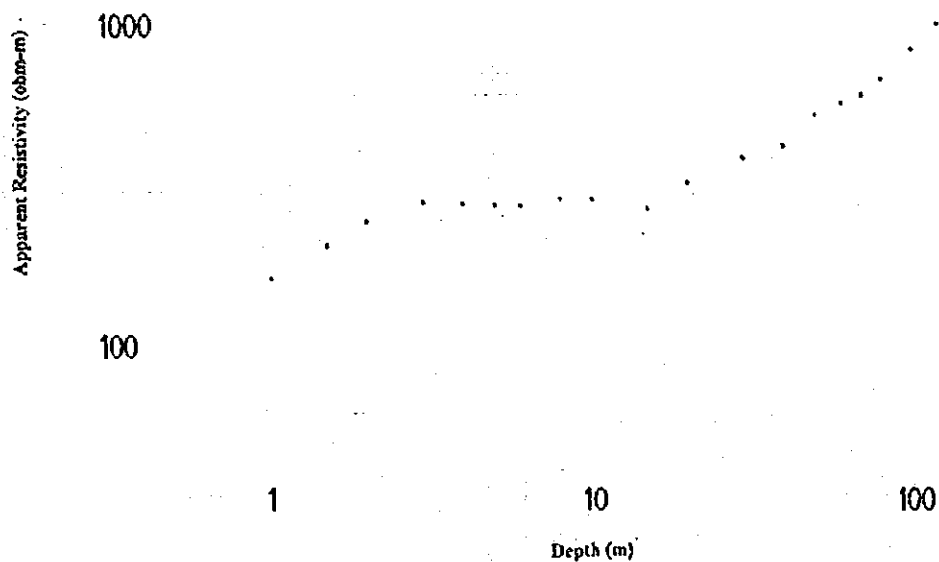
Resistivity Log

58	12	58	880
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Resistivity Sounding ρ -a Curve

Location : NAKAWALA P. Sch.

Line No. : GS 1090



Resistivity Log

130

650

215

490

730

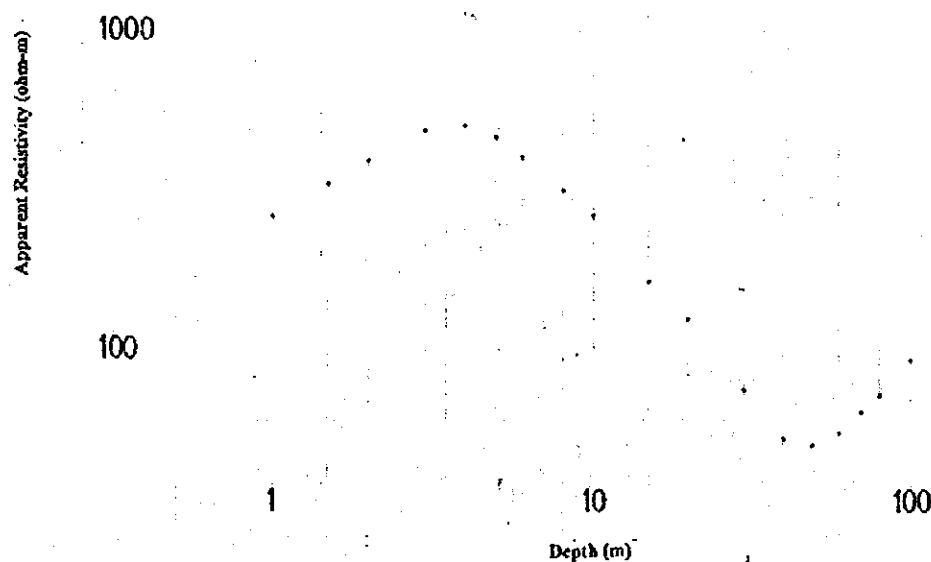
4400

A. 6. 2. 3 Kiboga District

Resistivity Sounding ρ -a Curve

Location : KIKONDA

Line No. : _____



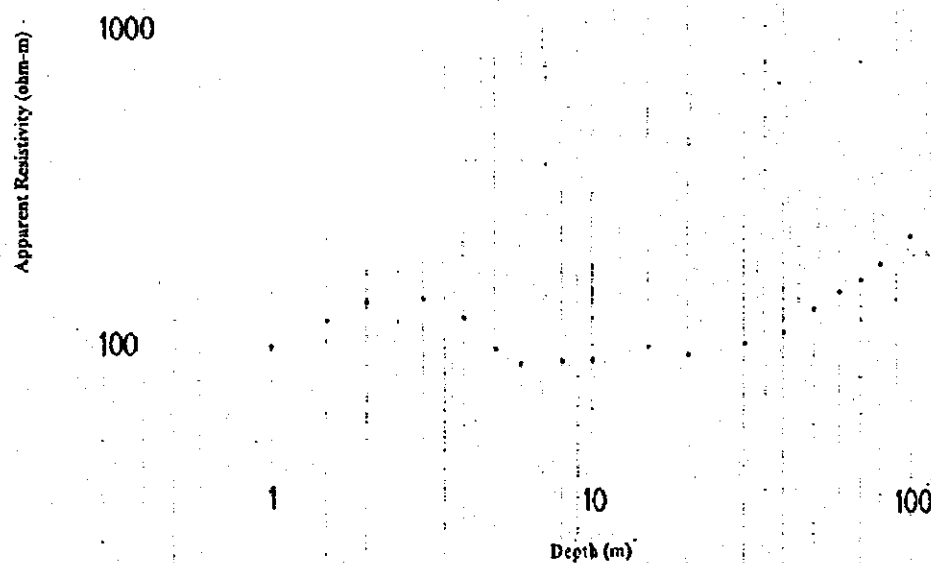
Resistivity Log

180	900	88	12	1400
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Resistivity Sounding ρ -a Curve

Location : BUKUWIRI P. Sch.

Line No. : _____



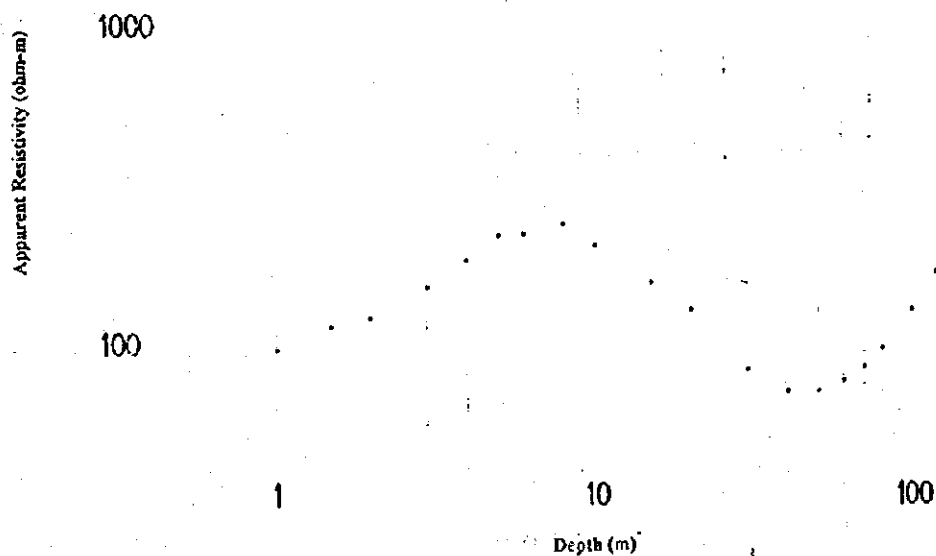
Resistivity Log

86	340	28	120	54	800
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Resistivity Sounding ρ -a Curve

Location : LUAMAGALLI

Line No. : _____



Resistivity Log

82

250

390

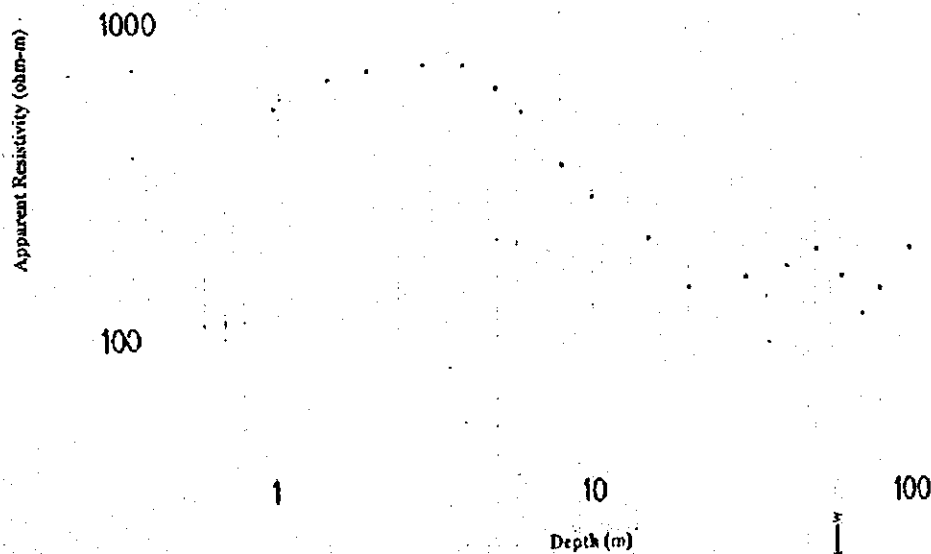
50

1860

Resistivity Sounding ρ -a Curve

Location : KYANKWANZI

Line No. : _____



Resistivity Log

380

1520

930

125

40

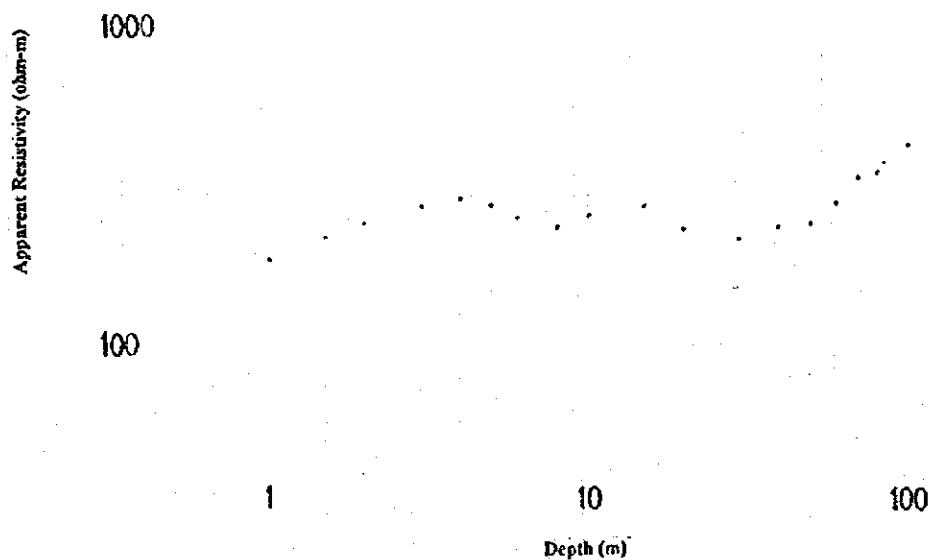
3000

A-111

Resistivity Sounding ρ -a Curve

Location : NDIBATA

Line No. : DWD 1609



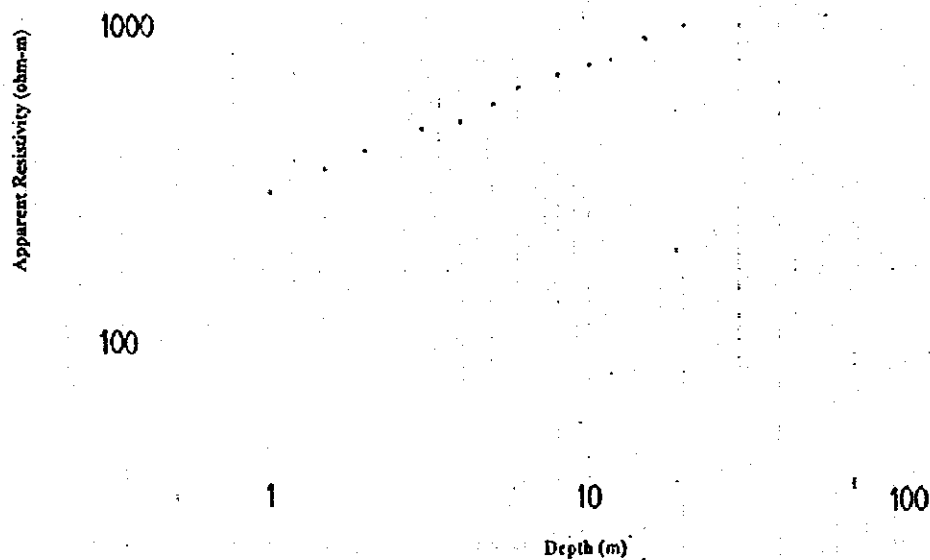
Resistivity Log

170	425	78	570	73	440	1350
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Resistivity Sounding ρ -a Curve

Location : NANKANDRA P.S.A.

Line No. : _____



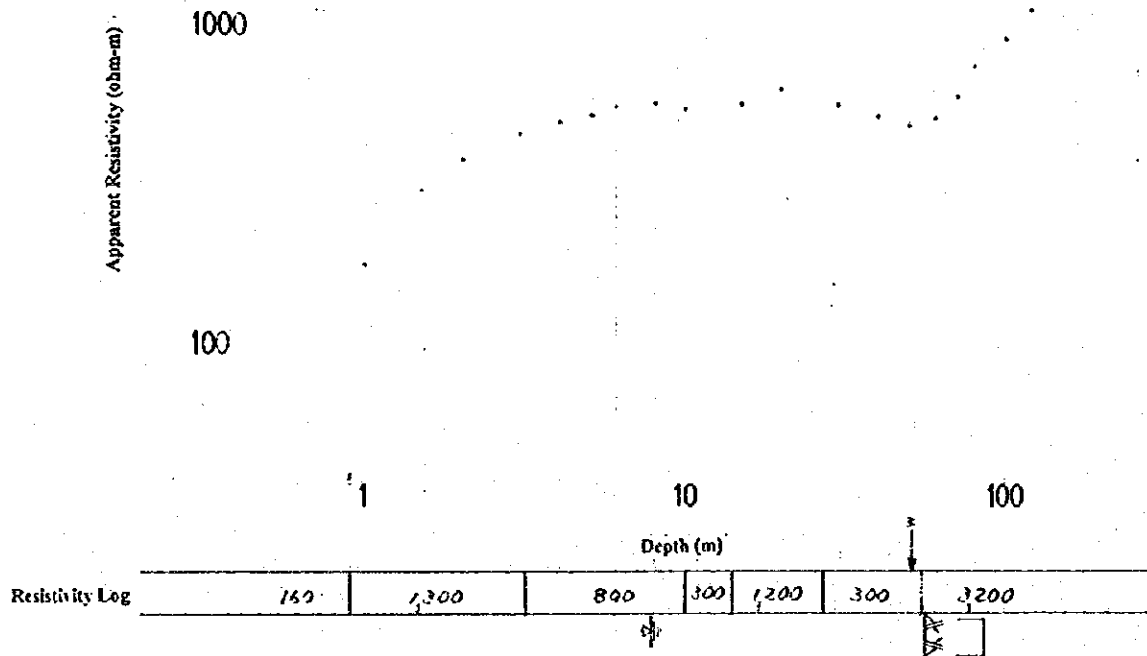
Resistivity Log

270	1900	1000	1700	3300
-----	------	------	------	------

Resistivity Sounding ρ -a Curve

Location : BUGOMOLWA P. Sch.

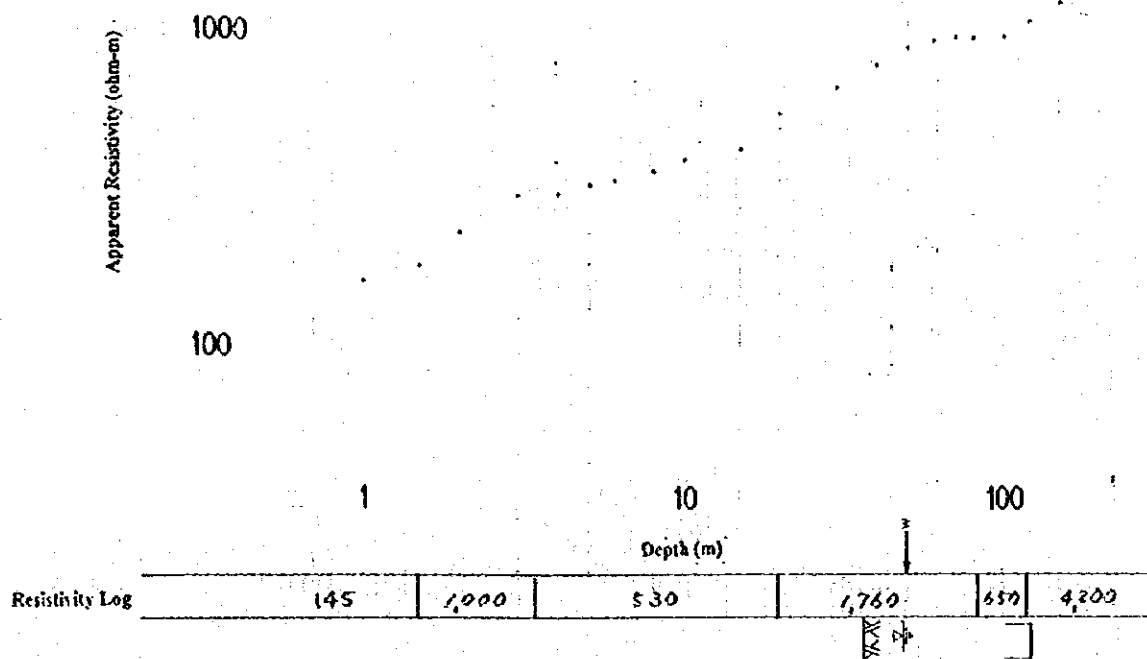
Line No. : _____



Resistivity Sounding ρ -a Curve

Location : NTWETWE H/A

Line No. : GS1399



Resistivity Sounding ρ -a Curve

Location : KISERESI

Line No. :

Apparent Resistivity (ohm-m)

1000

100

10

100

Depth (m)

Resistivity Log

1150

2300

2200

380

210

1400

3360

220

Resistivity Sounding ρ -a Curve

Location : KIKOLIMBO

Line No. : GS 1262

Apparent Resistivity (ohm-m)

1000

100

10

100

Depth (m)

Resistivity Log

58

290

140

340

1350

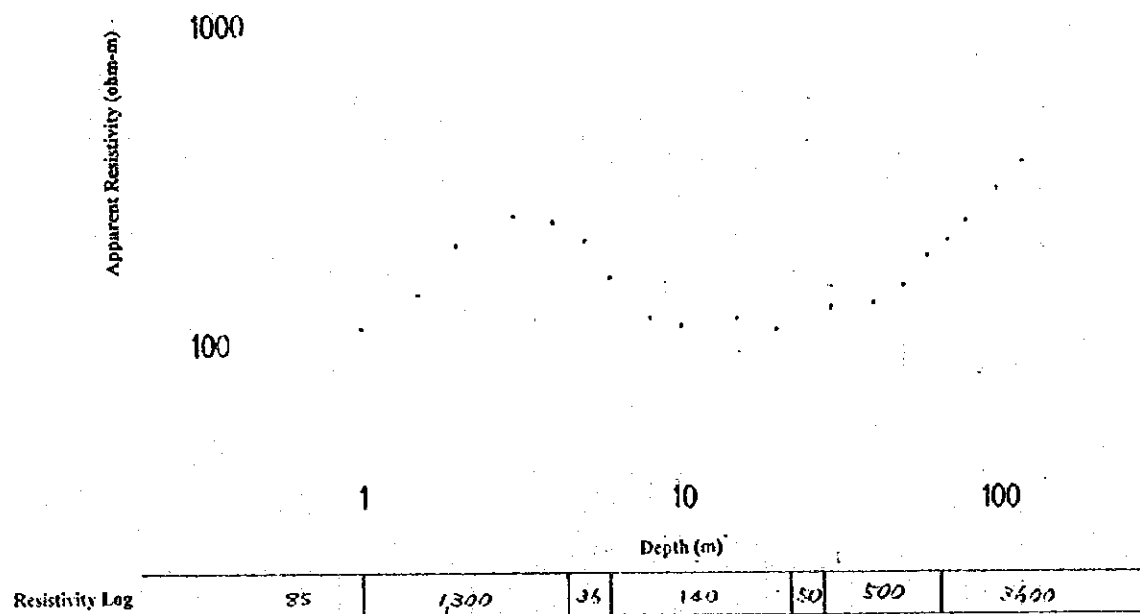
920

1700

Resistivity Sounding ρ -a Curve

Location : KANZIRA

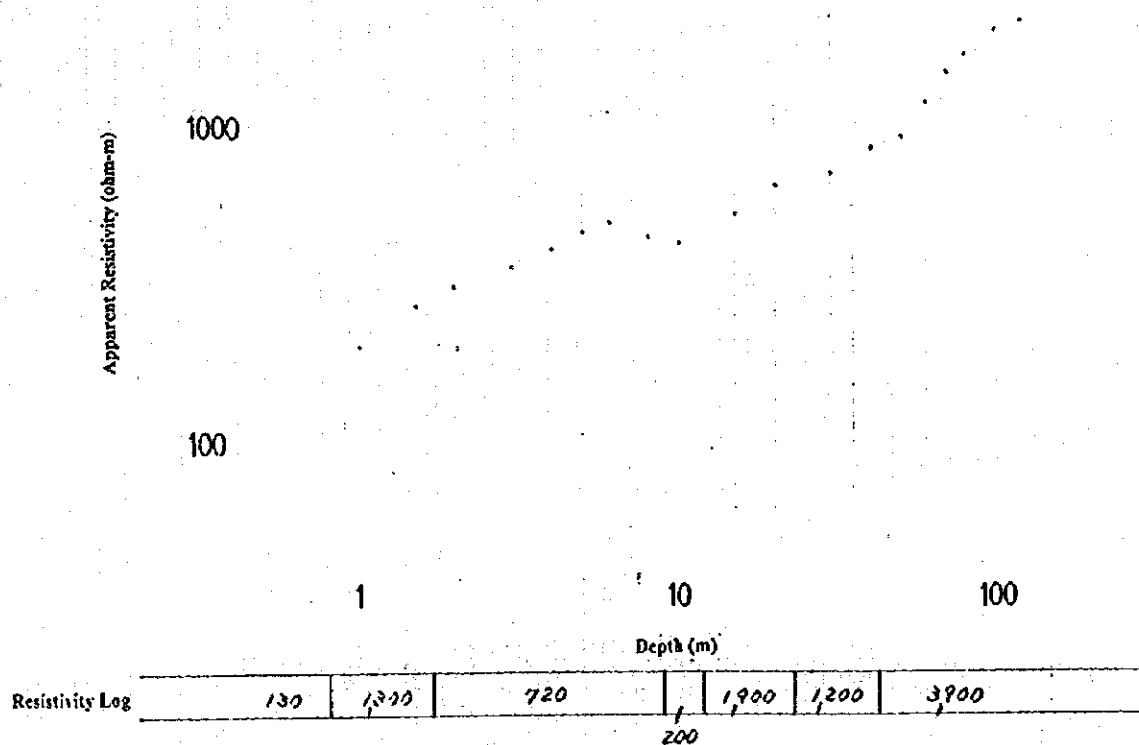
Line No. : GS1026



Resistivity Sounding ρ -a Curve

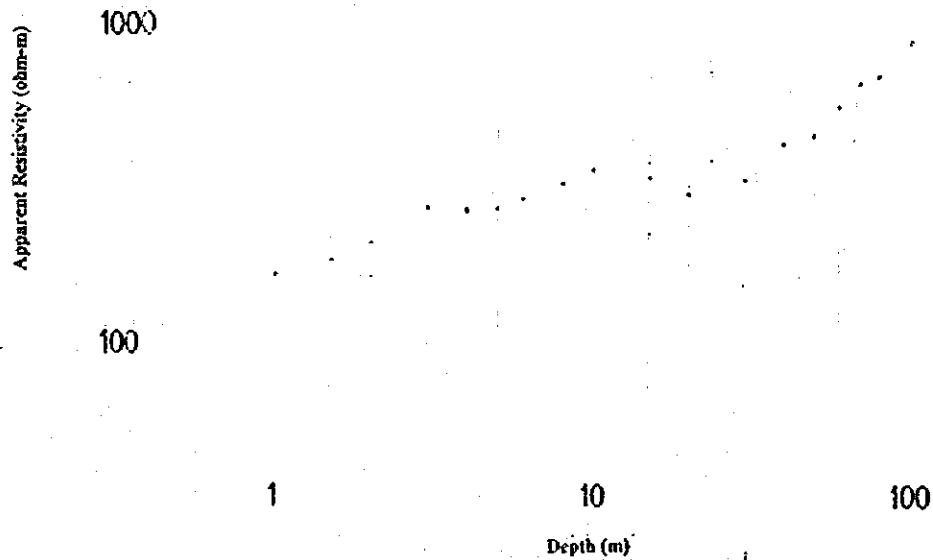
Location : KACWANGOZI

Line No. : GS1047



Resistivity Sounding ρ -a Curve

Location : SAZA IV/Q K1806A
Line No. : GD 88

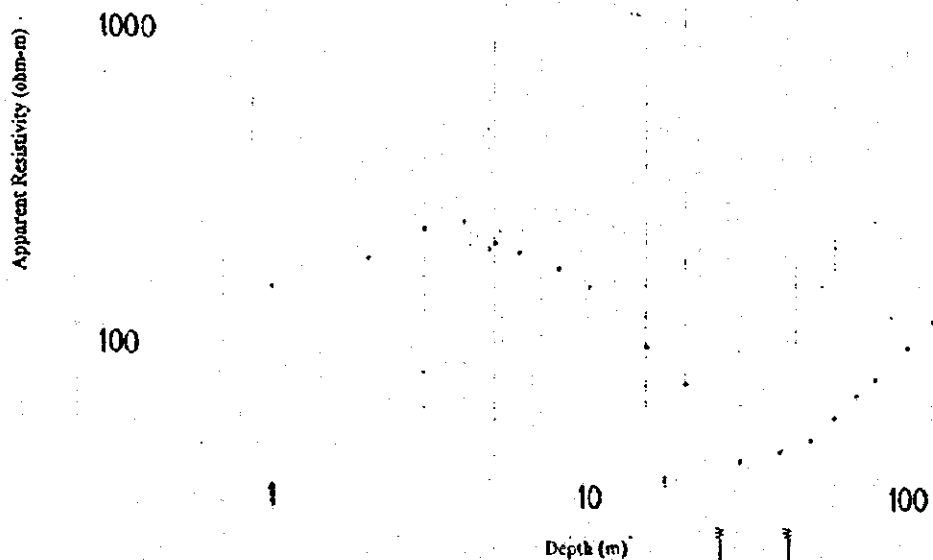


Resistivity Log

140	420	180	940	150	2350
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Resistivity Sounding ρ -a Curve

Location : K18151
Line No. : GS 1806



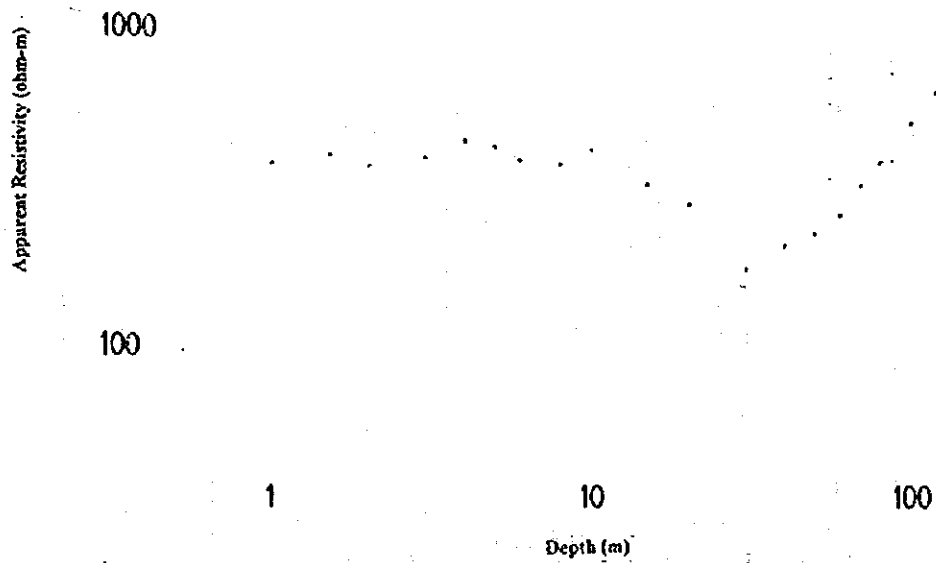
Resistivity Log

120	360	98	15	600	1500
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Resistivity Sounding ρ -a Curve

Location : KIRINDA

Line No. :



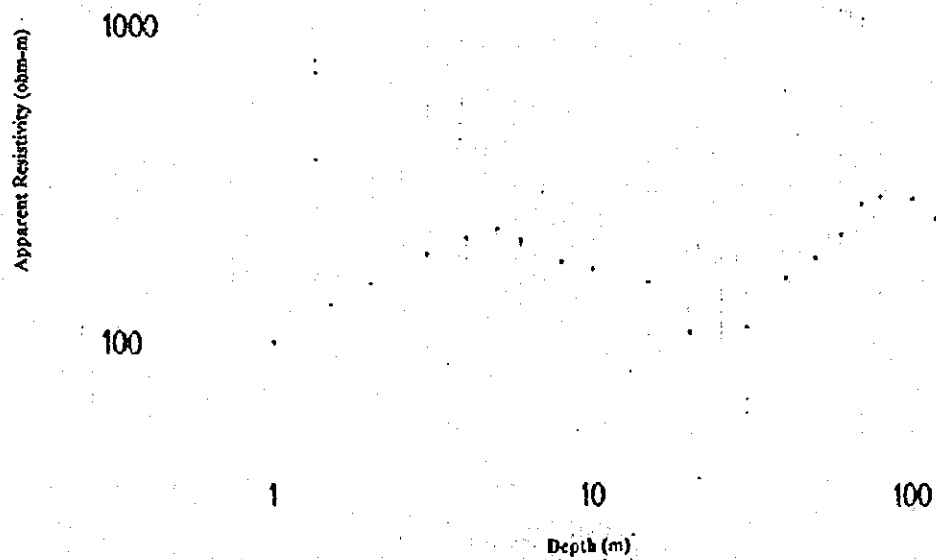
Resistivity Log

360	540	210	1600	120	1400	60	360	2200
-----	-----	-----	------	-----	------	----	-----	------

Resistivity Sounding ρ -a Curve

Location : BAMUSUTA

Line No. : GS 1418



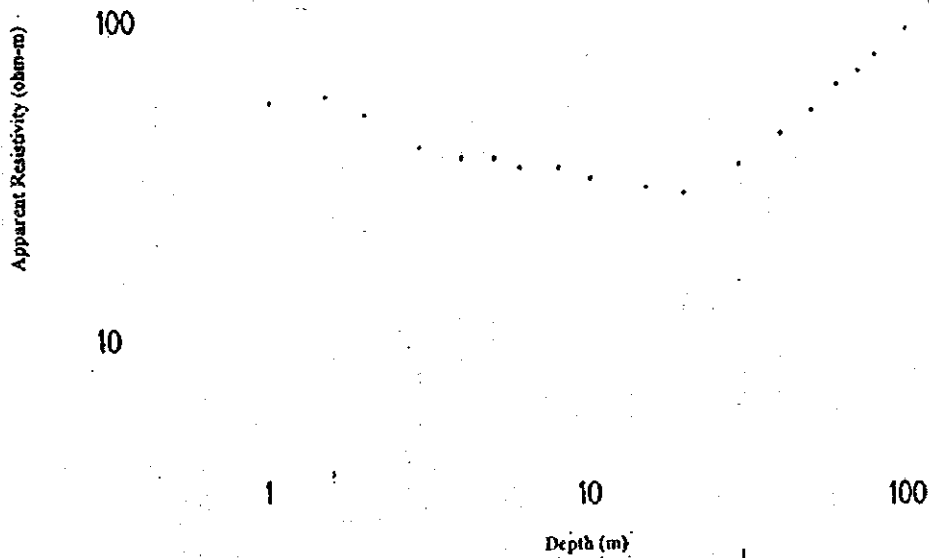
Resistivity Log

72	360	120	640	880	75
		60	25		

Resistivity Sounding ρ -a Curve

Location : KAKUNYU

Line No. : DS 516



Resistivity Log

52

78

15

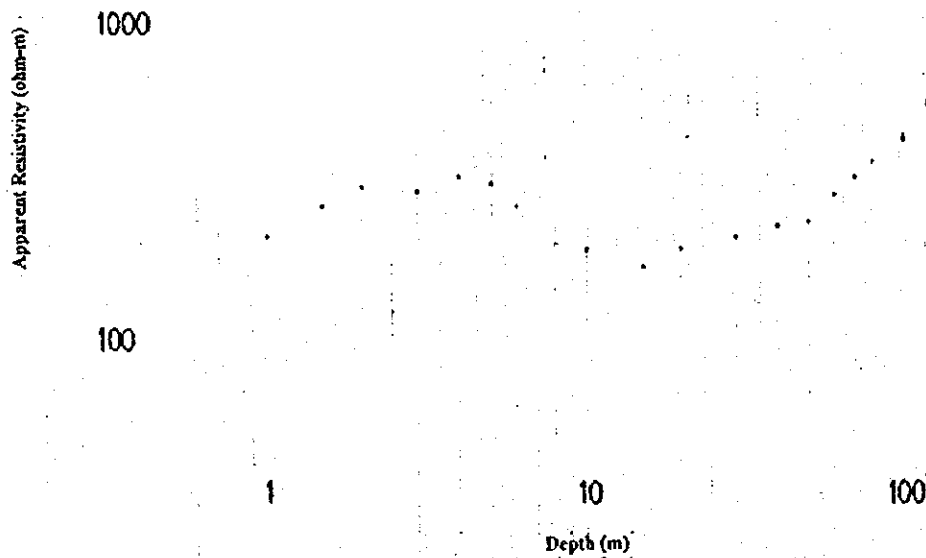
29

930

Resistivity Sounding ρ -a Curve

Location : KYANAMUYONJO

Line No. : GS 1187



Resistivity Log

160

64

165

1300

260

3300

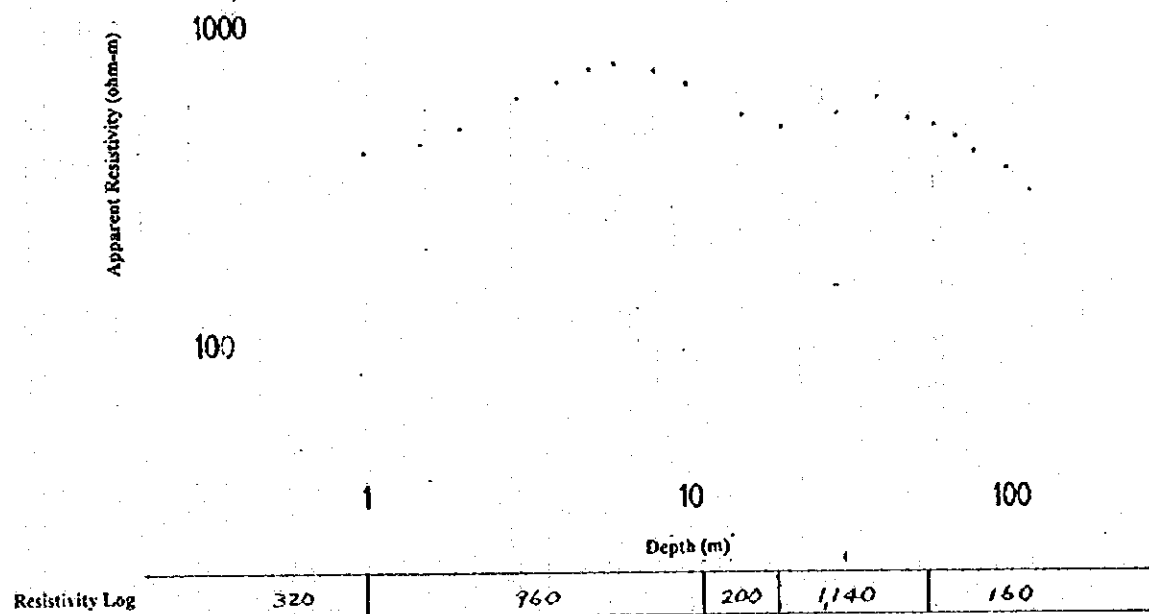
34

A-118

Resistivity Sounding ρ -a Curve

Location : KISWEKA

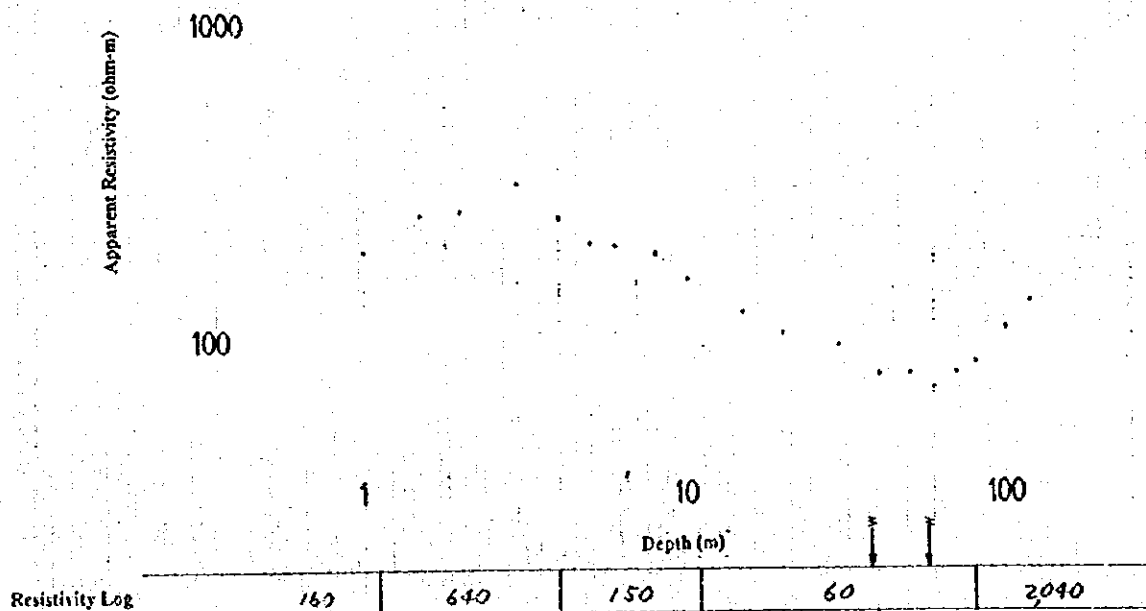
Line No. : P.Sch. BH



Resistivity Sounding ρ -a Curve

Location : BUKOMERO

Line No. : S.S.Sch. BH



A.6.3 Summary of Resistivity Prospecting (Interpreted Values)

Location	Geology	0.5	0.7	1	3	5	7	10 Resistivity Log	30	50	70	100	200	300 m
Mpigi District														
Nalagi	PL-R	500	(17)	15	(12)			(190)	200	(220)		920		
Makukulu	PL-R	170		11		22	43	20				1800		
Mawunki	B-T		640		112	260	93	(130) 120	(110)	120		780		
Bukandura S.Sch.1	B-T	250		500		250	450		200		360	50	1250	
Bukandura S.Sch.2	B-T	400		800			130	39	100		900			
Maddu A	B-T	200		300	130		86		260	68	270	1500		
Maddu B	B-T	155		230	425		66		525		62	1760		
Kankamu Lt Collg.	Gn	250			500				190	900	150	2500		
Manze	Gn	140		350	70	450	300		500		56	2600		
Masulita SC Hq.	Gn	185		330	75	1050	230	440	150	470	180	2650		
Masulita J.Sch.	Gn	40		160			110	1000		69	3300	1650		
Masulita UWESO	Gn	44	440		(1000) 210			200	960	430	1850			
Wakiso Hsp.	Gn	320		480		820		240		(500) 200				
Bukasa P.Sch.	Gn	70		490		1760		150		1720				
Mubende District														
Myanzi T.	PL-R	30		6.0		220			1500					
Rwenzhama	PL-R	200		22		750			3550					
Kiwumulo	PL-R	58		12		58					880			
Nalutuntu	M-B	240		480		1360		420		250		3200		
Kitalengerwa	M-B	130			520				1050	260		2100		
Mityana Hsp. 1	M-B	140		350	160	800	180	210	690	180				
Mityana Hsp. 2	M-B	200		1200		310	740	(240) 250						
Mizigo	M-B	55	1100			880			420	1590	940	3300		
Kabuwambo	M-B	86		1290	700		2050		1800		870			
Bbuye	B-T	940		2820		3500			360					
Busuwera P.Sch.	B-T	155		465	375	825	280		1360	320	4200			
Lwabagabo P.Sch.	B-T	560		1400	130		5100		410	3600	500			
Debeza	B-T	760		510	1580	1480	38	1320	400	1620				

(Geology) PL-R: Pleistocene-Recent, M-B: Mityana Series and Bukoba System, S: Singu Series, B-T: Buganda-Toro System, Gn: Undifferentiated Gneisses, Gr: Mobilized and intrusive Granites

Location	Geology	0.5	0.7	1	3	5	7	10	Resistivity Log	30	50	70	100	200	300	m
Mubende District (continued from the preceding page)																
Kalanga	B-T	155			390	135		200		1030	160	860	2310			
Karabalanga	B-T	52			260		550			920			3,150			
Madudu C.P. Sch.	Gr	90			450					2000			5,100			
Mubende Barracks	Gr	54			160					28	260		2600			
Kawuula P. Sch.	Gr	97			485		350		765	240	1000	1320	3760			
Namagogo	Gr	190			475		270		100	950		90	2800			
Kiyuni T.C.	Gr	150			450		160		1580	560		900	390	2700	790	3650
Lwemkomago	Gr	420			320	460	130		220	140		1750		1350		
Makonzi	Gr	83			170				615				660		2600	
Mirembe	Gr	80			800		245		1040	220			3600			
Kassanda Hsp.	Gr	240					960		76	720		320		1800		
Kassanda T.C.	Gr	130			260	34	740		370	83	410	120	2200			
Kawungera	Gr	80			190		67		1150	60	300	138	140		1650	
Kibalinga	Gr	110			220		170		310		405		3300			
Kisizili	Gn	93					370		130			280	2700			
Nakasaga	Gn	200					1200		48	120		160	97	4200		
Kasumba Hsp.	Gn	260					1560		82	825		265	1350	1020	110	4700
Nakawara P. Sch.	Gn	130					550		215	490		730		4400		
Kiboga District																
Kakumyu	B-T	52			78	16			29				930			
Kirinda	B-T	360			540	210	1500	120	1400	60		360		2200		
Bukomero S. Sch.	B-T	160					640		150			60		2040		
Kibisi	S	120					360		98	16		600		1500		
Kisweka P. Sch.	S	320					960		200		1140		160			
Kyanamuyonjo	Gn	160			640		165	1300	34	260			3300			
Bamusuta	Gn	72					360		60	120	25	640	880	75		
Kiboga Saza Hq.	Gn	140					420		180	940	150	2350				
Kikonda	Gn	180					900			88		12	1400			
Bkuwiri	Gn	86					340		28			54	800			
Kyankwanzi	Gn	380					1520		930		52	125		420	40	3000
Lwamagaali	Gn	82					250		390		50			1860		

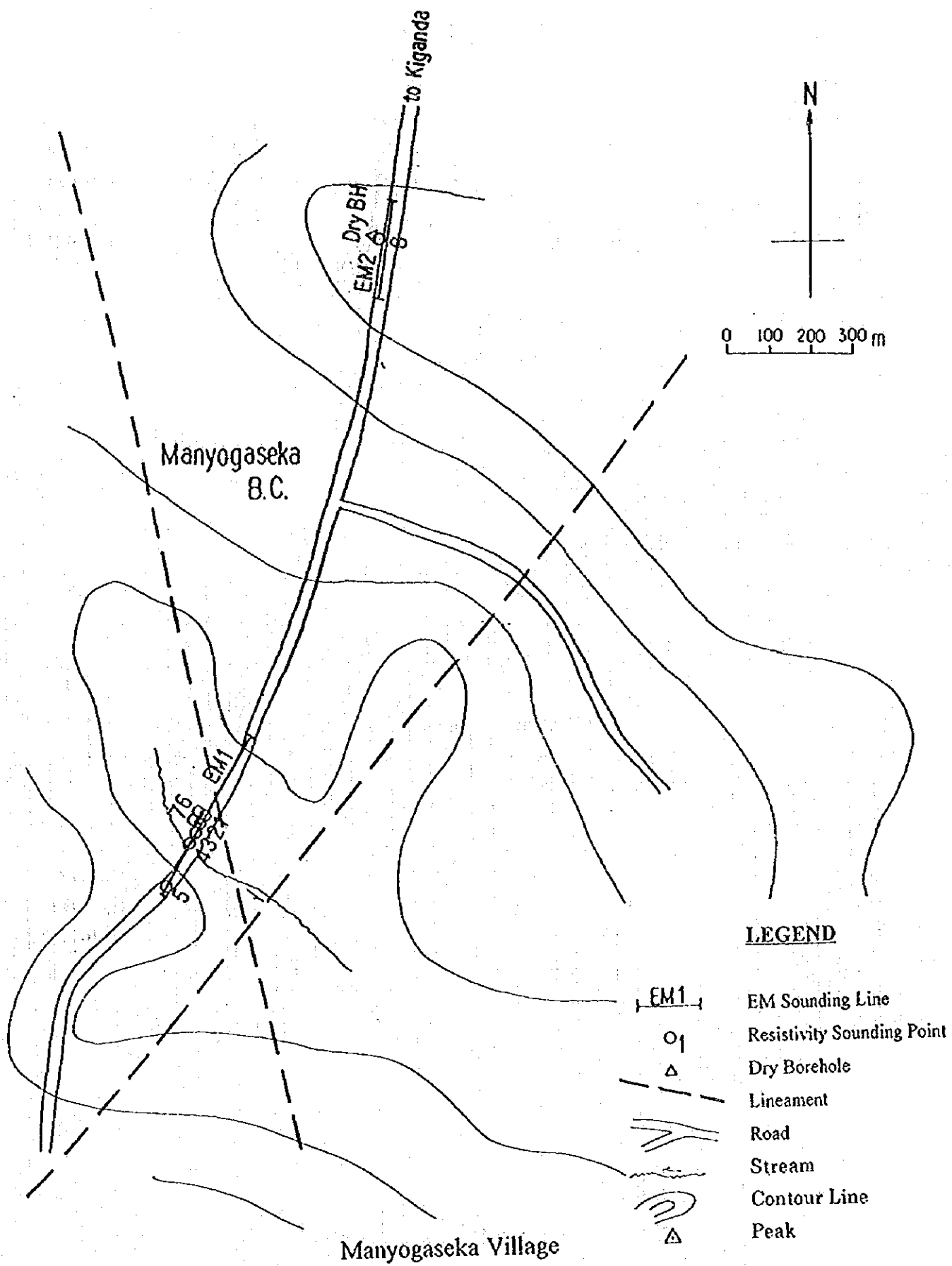
(Geology) PL-R: Plenstone-Reuni, M-B: Muiyana Series and Bukoban System, S: Sango Series, B-1: Buganda-Loro System, Gn: Undifferentiated Gneisses, Gr: Mobilized and intrusive Granites

[illegible]

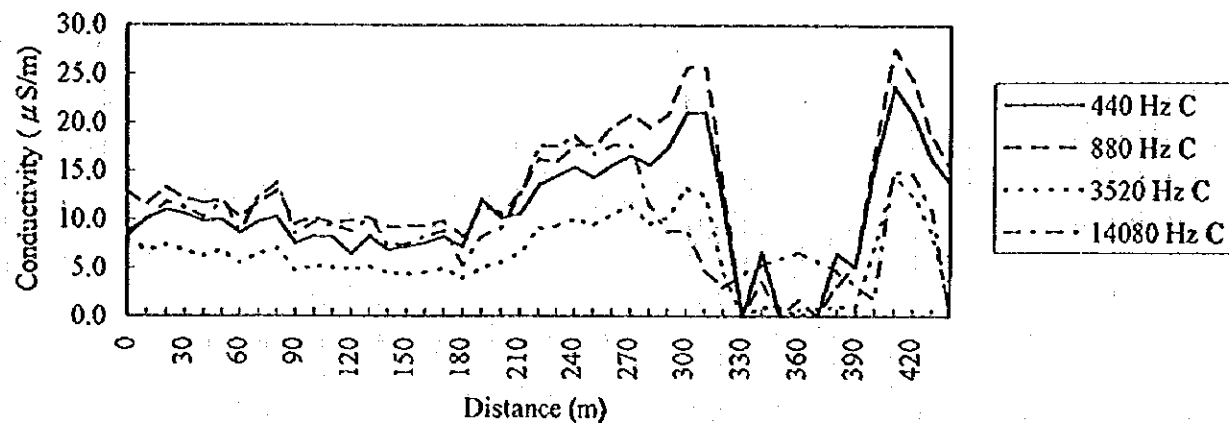
(Geology) PL-8; Pleistocene-Recent, M-13; Miyaama Series and Jakoban System, S-T; Buganda-Foro System, Cni; Undifferentiated Gneisses, Cr; Mobilized and Invasive Granites

A.6.4 Result of Test Borehole Siting

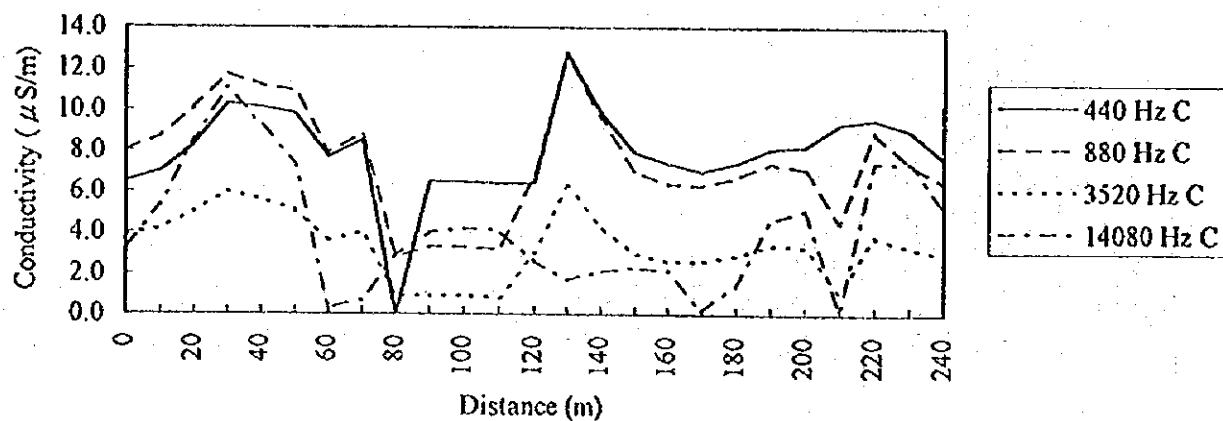
A.6.4.1 Manyogaseka



Manyogaseka Line No.1



Manyogaseka Line No.2



Resistivity Sounding ρ_a Curve

Location : NANTOGASEKA

Line No. : 1

100

10

1

10

100

Depth (m)

Resistivity Log

52

130

720

240

1,600

53

Apparent Resistivity (Ω m-m)

Resistivity Sounding ρ -a Curve

Location : MANTOGASEKA

Line No. : 2

1000

100

10

100

Depth (m)

Resistivity Log

1000

110

330

220

1800

40

47

Resistivity Sounding ρ -a Curve

Location : MANYOGASE KA

Line No. : 3

100

10

100

10

Depth (m)

1,750

49

160

30

150

Apparent Resistivity (Ω m-m)

Resistivity Log



Resistivity Sounding ρ -a Curve

Location : MANTOGASEKA

Line No. : 5

1000

100

100

10

Depth (m)

Apparent Resistivity (ohm-m)

Resistivity Log

480

320

72

370

1860

190

Resistivity Sounding ρ -a Curve

Location : MANTOGASEKA

Line No. : 6

100

10

1

10

100

Depth (m)

Resistivity Log

180

36

300

77

470

200

1550

Apparent Resistivity (Ω m-m)

Resistivity Sounding ρ -a Curve

Location : MANTO GASEKA

Line No. : 7

1000

100

1

10

100

Depth (m)

1600

240

65

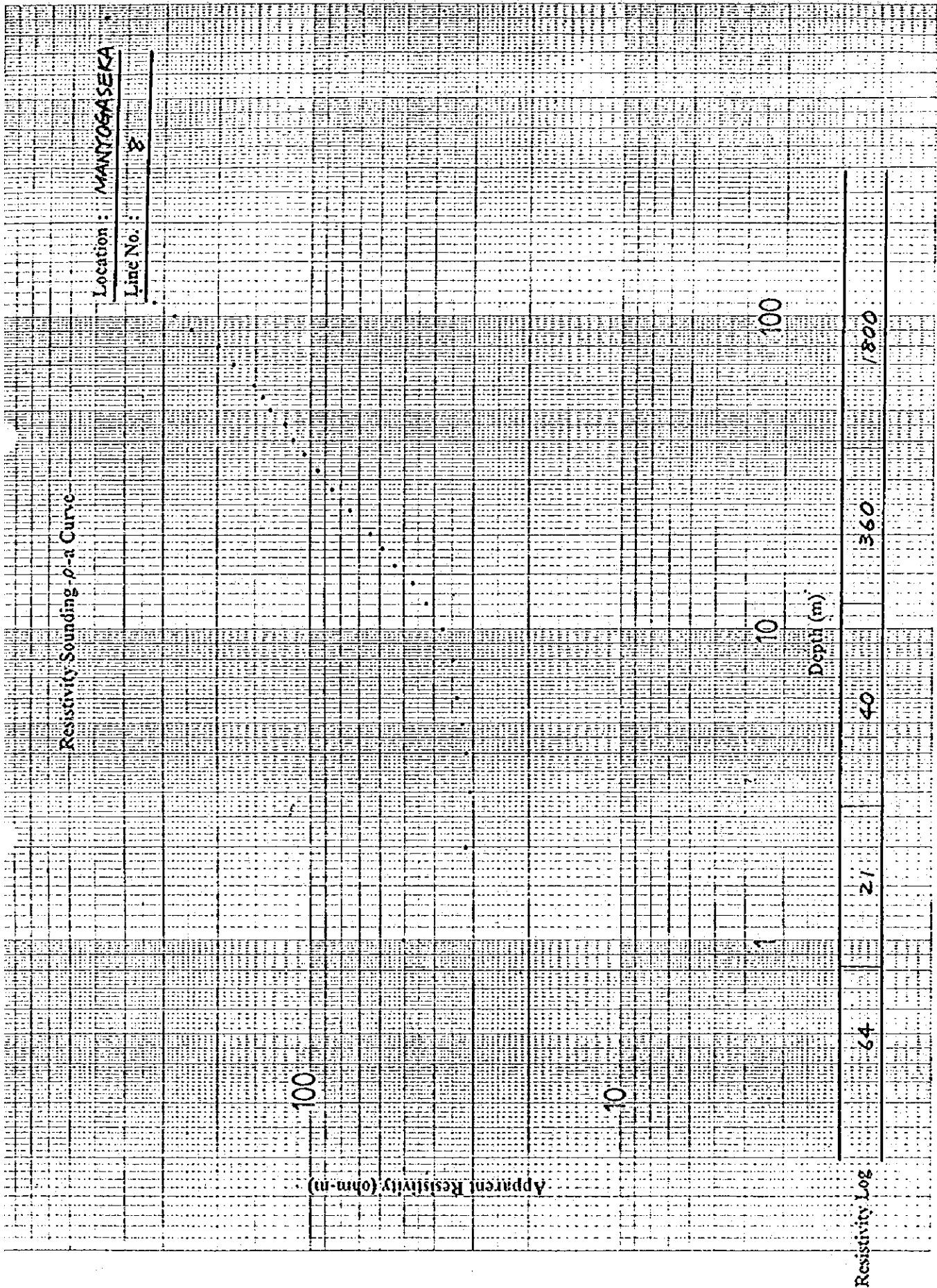
260

72

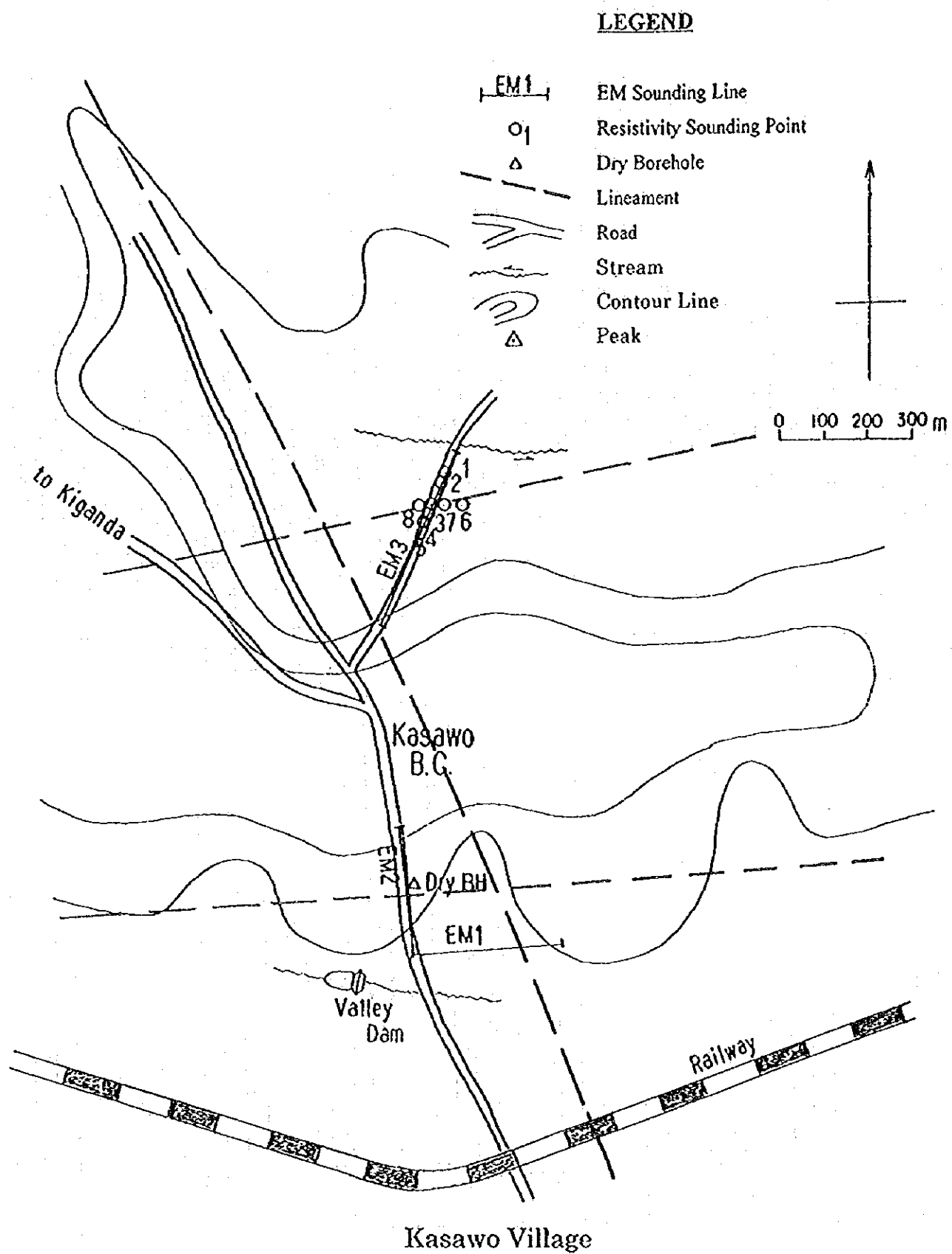
360

Apparent Resistivity (ohm-m)

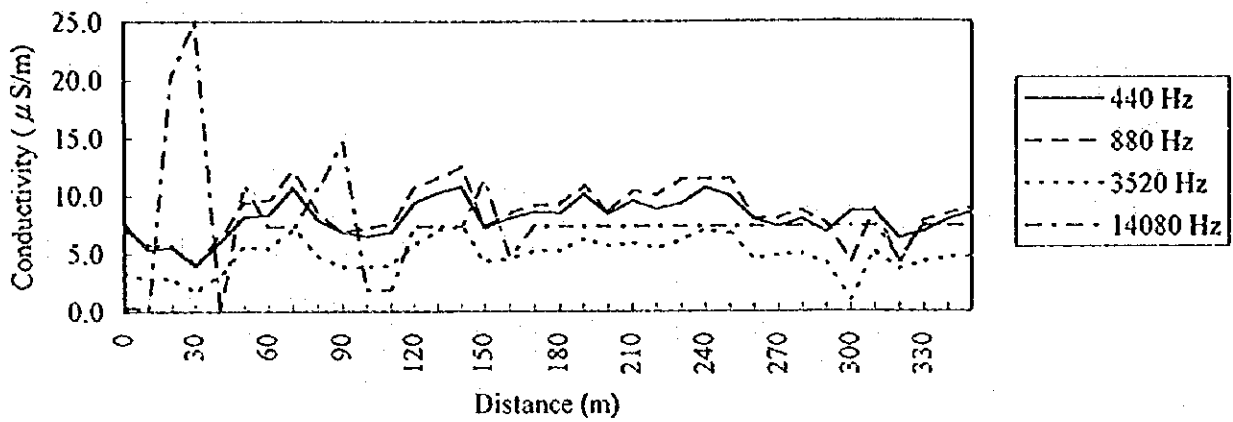
Resistivity Log



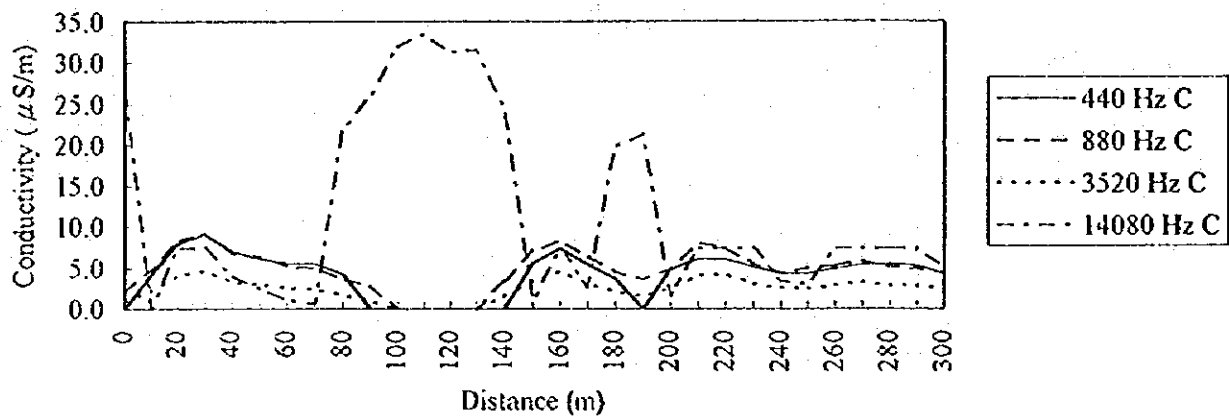
A. 6. 4. 2 Kasawo



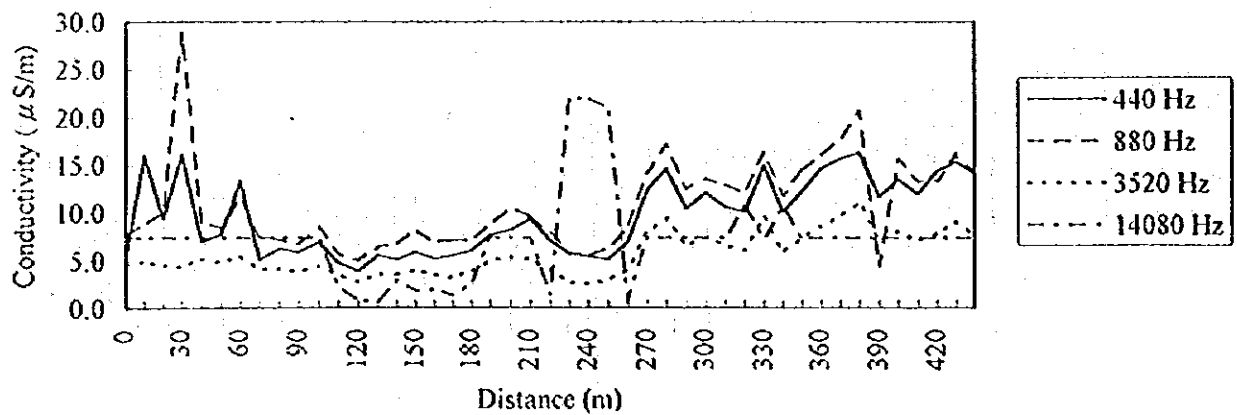
Kasawo Line No.1



Kasawo Line No.2



Kasawo Line No.3



Resistivity Sounding ρ -a Curve

Location: KASAWO

Line No.: 1

100

10

10

100

Depth (m)

48

230

130

1800

Apparent Resistivity (ohm-m)

Resistivity Log

Resistivity Sounding ρ -a Curve

Location : KASAWO

Line No. : 2

100

10

1

10

100

Depth (m)

Resistivity Log

30

90

170

1900

Apparent Resistivity (ohm-m)

Resistivity Sounding ρ -a Curve

Location : KASAWO

Line No. : 5

100

10

1

10

100

Depth (m)

Resistivity Log

100

25

70

390

1,800

Apparent Resistivity (ohm-m)