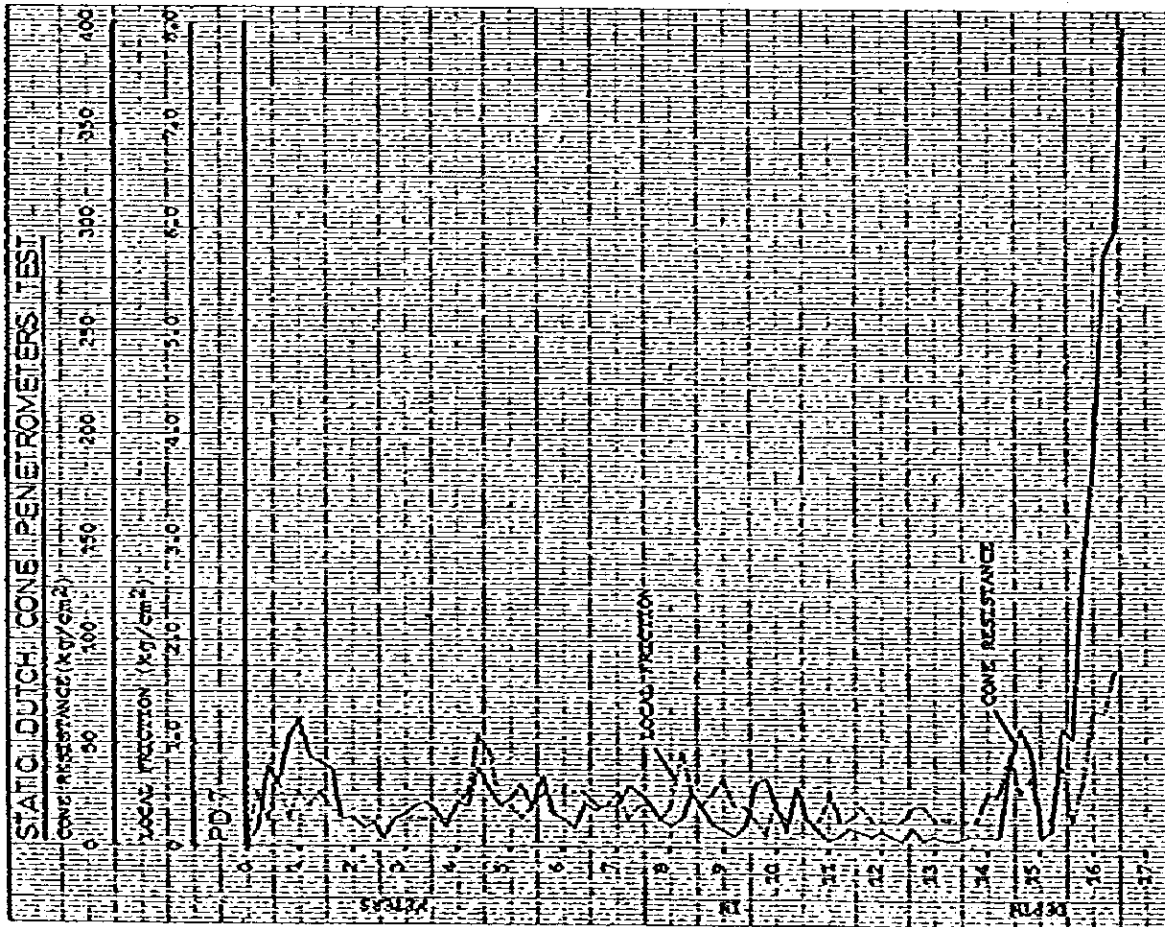
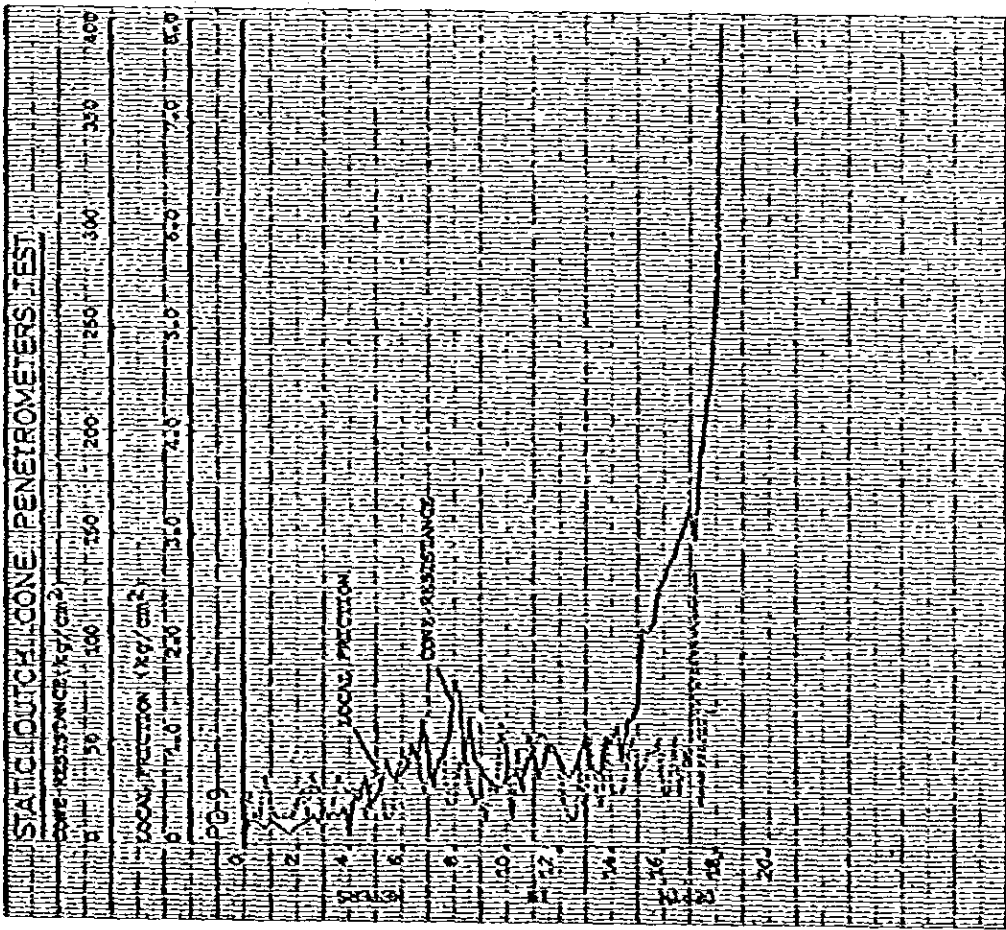


Project: Feasibility Study for the Reclamation Project of Ex-mining Land
 for Housing Development and Other Purposes-Phase I at Kampong
 Pandan, Kuala Lumpur - MJ/003/80/



Project: Feasibility Study for the Reclamation Project of Ex-mining Land
for Housing Development and Other Purposes-Phase I at Kempong,
Pandan, Kuala Lumpur - MJ/003/80/



Project: Feasibility Study for the Reclamation Project of Ex-mining Land for Housing Development and Other Purposes-Phase I at Kampong Pandan, Kuala Lumpur - MJ/003/80/

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Purposes - Phase I

Name of Project: Ex-mining Land for Housing Development and Other Purposes - Phase I Type of Drilling: Percussion
 Hole Number: No. PB-1 Elevation: FL +43.4 m Date: 30/1/80 to 2/2/80
 Site: Kampong Pandan Water Table: 0. -3.60 m Driller: Geotechnique (M) (Kiso-Jib)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery						
									Depth in m.	Sampling for Lab.	Blows Per Each 10cm	(N-Value)			
									10	20	30	40	50		
	43.40														
	43.00	0.40	0.40		Sand	Light grey		Top soil. Sand is fine grained with gravel	1:15						
1									1:45	P-1	3	0	2	1	
2								Sand is medium to coarse grained with mica-fragments	2:15		4	1	2	1	
3							Very loose		2:45	P-2	4	1	2	1	
4								With some gravel (PS-7mm)	3:15		4	1	2	1	
5									3:45	P-3	4	1	2	1	
6									4:15		5	2	1	2	
7									4:45	P-4	5	2	1	2	
8									5:15		7	3	2	2	
9									5:45	P-5	7	3	2	2	
10									6:15		8	3	2	3	
11									6:45	P-6	8	3	2	3	
12									7:15		6	2	2	2	
13									7:45	P-7	6	2	2	2	
14									8:15		3	1	0	2	
15									8:45	P-8	3	1	0	2	
16	33.80	9.60	9.20		Sand	Light grey			8:45	P-9	8	3	2	3	
17									10:15		9	3	3	2	
18								With mica-fragments	10:45	P-10	9	3	3	2	
19	31.60	11.80	2.20		Sandy Silt	Brownish grey	Soft to medium	With some coarse sand	11:15		3	0	2	1	
20									11:45	P-11	3	0	2	1	
21								With sand and mica-fragments	12:15		1	0	0	1	
22									12:45	P-12	1	0	0	1	
23									13:15		3	0	1	2	
24									13:45	P-13	3	0	1	2	
25	28.65	14.75	2.95		Silty Clay	Grey	Soft		14:15		11	4	3	4	
26								With pockets of sand and mica-fragments	14:45	P-14	11	4	3	4	
27									15:15		11	5	3	3	
28	26.83	16.57	1.82		Clayey Silt	Light grey	Medium		15:45	P-15	11	5	3	3	
29									16:15		5	2	1	2	
30	25.90	17.50	0.93		Silt	Light grey	Stiff	With traces of fine sand	16:45	P-16	5	2	1	2	
31									17:15		11	3	4	4	
32									17:45	P-17	11	3	4	4	
33	24.70	18.70	1.20		Clayey Silt	Grey	Stiff	With coarse sand	18:15		10	4	2	4	
34									18:45	P-18	10	4	2	4	
35	23.50	19.90	1.20		Sand and Gravel	Light grey	Loose	Sand is medium to coarse. Weathered limestone	19:15		10	2	3	5	
36									19:45	P-19	10	2	3	5	
37	23.00	20.40	0.50		Gravel	Light grey		Limestone	20:15						
38									20:45	P-20					
39	21.70	21.70	1.30		Sand with Gravel	Light grey		Weathered limestone	21:15		28	7	6	15	
40									21:45	P-21	28	7	6	15	
41	21.60	21.80	0.10		Limestone	Grey white			21:70						
42									21:80	P-22					
43															
44								End of Drilling							
45															
46															
47															
48															
49															
50															

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other
Purposes - Phase I

Remarks

Name of Project: Kampong Pandan
 Hole Number: No. PB-2
 Elevation: RL 443.7 m
 Date: 11/1/80 to 14/1/80
 Site: Kampong Pandan
 Water Table: GL -2.20 m
 Type of Drilling: Percussion
 Order: Geotechnique (M) (Kiso-Jib)

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m.	Sampling for Lab.	Pen. Value	Blows Per Each 10cm	(N-Value)					
													10	20	30	40	50	
	43.70																	
	42.90	0.80	0.80	X X	Sandy Silt	Light greyish brown		Top soil										
	41.85	1.85	1.05	X X	Sandy Silt	Light brown	Medium	With some gravels	1.15	P-1	5	1	3	2				
	41.10	2.60	0.75	X X	Clayey Sand	Light grey	Loose	Sand is medium to coarse graded	2.15	P-2	5	1	2	2				
	40.20	3.50	0.90	X X	Sandy Silt	Light brownish grey	Medium	With medium sand	2.45									
	39.10	4.60	1.10	X X	Clayey Silt	Light brownish pink	Soft	With traces of sand	3.15	P-3	6	1	3	2				
				X X				With coarse sand	3.45									
				X X					4.15	P-4	3	1	0	2				
				X X					5.15	P-5	4	1	1	2				
	35.50	7.20	2.60	X X	Sandy Silt	Light whitish grey	Medium	With mica-fragment	6.15	P-6	7	3	2	2				
	36.45	7.25	0.05	X X	instore				6.45									
									7.20	P-7	5%	5%	-	-				50 blows/5cm
								End of Drilling	7.25									
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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24																		
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29																		
30																		

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other

Name of Project: Purposes - Phase I
 Type of Drilling: Percussion
 Hole Number: No. P2-3
 Elevation: RL +44.2 m
 Date: 26/1/80 to 28/1/80
 Site: Kampong Pandan
 Water Table: Gt. -3.25 m
 Driller: Geotechnique (M) (Kiso-Jibya)

Remarks

Scale in m	Elevation in m	Depth in m	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m	Sampling for Lab	Blow Value	Blows Per Each 10cm	(N-Value)					
													10	20	30	40	50	
	44.20																	
1	44.10	0.10	0.10	X X	Coarse Sand	Light grey		Top soil. Coarse to medium										Core Recovery
2				X X				With medium sand	1:15	P-1	2	0	1	1				
3	41.45	2.75	2.65	X X	Clayey Silt	Light brownish grey	Very soft			2:15	P-2	1	0	0	1	1		
4				X X				With silt and gravels	3:15	P-3	1	0	1	0				
5	39.20	5.00	2.25	X X	Sand	Light grey	Very loose	Gravel is 25-10mm	4:15	P-4	2	0	1	1				
6				X X				Sand is medium to coarse grained with gravels. Gravel is 25-10mm	5:15	P-5	2	0	1	1				
7	37.70	6.50	1.50	X X	Silty Sand	Light grey	Very loose		6:15	P-6	1	0	1	0				
8				X X				Sand is coarse grained with gravels	7:15	P-7	3	1	1	1				
9				X X				Gravel is 10mm	8:15	P-8	4	1	2	1				
10				X X					9:15	P-9	2	1	0	1				
11	33.65	10.55	4.05	X X	Silty Sand	Light grey	Very loose		10:15	P-10	1	0	1	0				
12				X X				With sand pocket	11:15	P-11	4	1	1	2				
13	32.30	11.90	1.35	X X	Clayey Silt	Light brownish grey	Soft		12:15	P-12	8	2	2	4				
14	31.35	12.85	0.95	X X	Sandy Clay	Dark brownish grey	Medium	With medium sand	13:15	P-13	10	3	2	5				
15	29.80	14.40	0.75	X X	Clayey Silt	Brownish grey	Stiff	With medium sand	14:00	P-14	1	50	1	1				50 blows/8cm
16	29.45	14.75	0.35	X X	Sandy Silt	Light grey	Hard	Weathered limestone	14:18	P-15	1	50	1	1				50 blows/8cm
17					Gravel	Light grey		Limestone	14:35	P-15	1	50	1	1				
18								End of Drilling										
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		

FIG. DRILLING LOG

Remarks

Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Purposes - Phase I

Name of Project: Ex-mining Land for Housing Development and Other Purposes - Phase I
 Type of Drilling: Percussion

Hole Number: No. PB-4 Elevation: RL +43.0 m Date: 23/1/80 to 24/1/80
 Site: Xanpong Pandan Water Table: GL -2.45 m Driller: Geotechnique (M) (Kiso-Jibán)

Scale in m	Elevation in m	Depth in m	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m	Sampling for Lab.	N ₆₀ Value	Blows Per Each 10cm	(N-Value)					
													10	20	30	40	50	
	43.00				Sand	Light grey		Top soil with mica-fragment										
1	42.90	0.10	0.10	X X	Sandy Silt	Light grey	Medium	With mica-fragment	1.15	P-1	5	1	2	2				
2	41.20	1.80	1.70	X X					1.45	P-2	8	3	2	3				
3								Sand is fine to medium grained	2.15	P-2	8	3	2	3				
4									2.45	P-3	8	2	3	3				
5									3.15	P-3	8	2	3	3				
6									3.45	P-4	7	1	2	4				
7	37.30	5.70	3.90	X X	Sand	Light grey	Loose		4.15	P-4	7	1	2	4				
8								With few gravel. Sand is fine to coarse grained	5.15	P-5	10	3	4	3				
9									6.15	P-6	2	0	1	1				
10									6.45	P-7	5	1	2	2				
11	34.20	8.80	1.10	X X	SAND	Light grey	Very loose		7.15	P-7	5	1	2	2				
12	33.35	9.65	0.85	X X	SAND	Light brown	Medium	Heavily weathered limestone	8.15	P-8	4	0	2	2				
13									8.45	P-9	20	9	6	5				
14	32.15	10.85	1.20	X X	SANDY SILT	Dark brown	Stiff	Heavily weathered limestone	9.15	P-10	13	5	4	4				
15	31.45	11.55	0.70	X X	CLAYEY SILT		Stiff	Heavily weathered limestone	10.15	P-10	13	5	4	4				
16								End of Drilling	10.45	P-11	13	7	2	4				
17									11.15									
18									11.45									
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
32																		

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other

Name of Project Purposes - Phase I

Type of Drilling Percussion

Hole Number No. PB-5 Elevation RL 148.3 m

Date 17/1/80 to 21/1/80

Site Kampong Pandan Water Table GL -3.20 m

Driller Geotechnique (II) (Kiso-Jiban)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery						
									Depth in m.	Sampling for Lab.	SPT-Value	Blows Per Each 10cm	(N-Value)		
												10	20	30	50
	148.31				Sand	Light greyish brown		Top soil. Sand is medium grained	1:15	P-1	4	1	2	1	
1	148.20	0.10	0.10						2:15	P-2	4	2	1	1	
2									3:15	P-3	1	0	1	0	
3								Sand is fine to coarse grained	4:15	P-4	1	0	1	0	
4									5:15	P-5	2	0	1	1	
5									6:15	P-6	2	0	1	1	
6									7:15	P-7	1	0	1	0	
7									8:15	P-8	1	2	1	0	
8									9:15	P-9	2	0	1	1	
9						Dark greyish brown			10:15	P-10	4	3	1	0	
10									11:15	P-11	15	5	5	5	
11									12:15	P-12	16	6	5	5	
12									13:15	P-13	11	6	4	3	
13									14:15	P-14	10	3	4	3	
14					Sand	Brown			15:00	P-15	10	3	4	3	
15	33.30	15.00	14.90		Gravels	Brown		With sand							50 blows/10cm
16								End of Drilling							
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															

E.2 Results of Field Ground Investigation

- Sentul -

	<u>Page</u>
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13. In-Situ Vane Test	E-100
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15. In-Situ Permeability Test	E-112

Details of Field Ground Investigation Performed (1)

- Sentul -

Geophysical Survey		Soundings										Dis- turbed Soil Sampling (Nos.)
		Dutch Cone Pene- trometer Test		Dynamic Cone Test		Pore Pressure Sounding		Swedish Sounding		Mackintosh Probe Sounding		
Electri- cal Sounding	Micro- gravity Measure- ment	Test No./ Location	Sound- ing Depth (m)	Test No./ Loca- tion	Sound- ing Depth (m)	Loca- tion	Test No.	Sound- ing Depth (m)	Refer to next page.	Sub- Area Loca- tion	Sound- ing Depth (m)	
25 Lo- cations	121 Lo- cations	A'	7.8	-	-	A*	1	2.69	Refer to next page.			
		A"	12.8	A"	19.2	2	2.68					
		B	16.0	B	14.2	1	11.50					
5 Lo- cations	9 Lo- cations	3 Lo- cations	36.0m	2 Lo- cations	33.4m	2 Lo- cations	4	28.47m	96 Lo- cations			
		SD-1	28.8									
		SD-2	17.2									
		SD-3	18.6									
		SD-4	17.4									
		SD-5	20.2									
		SD-6	27.4									
		SD-8	12.6									
		SD-9	15.4									
		SD-10	22.0									
		SD-11	20.2									
		SD-12	19.4									
		SD-13	19.6									
		SD-15	13.8									
		SD-16	17.8									
		SD-17	15.0									
		SD-18	7.4									
		5 Lo- cations	9 Lo- cations	16 Lo- cations	292.8m	0 Lo- cation	0 m	0 Lo- cation				
MS-1	10.9											
MS-2	8.8											
MS-3	10.6											
MS-4	10.6											
MS-5	9.7											
30 Lo- cations	130 Lo- cations	19 Lo- cations	328.8m	2 Lo- cations	33.4m	2 Lo- cations	4	28.47m	96 Lo- cations 1179 m	-	5 Lo- cations	33 Nos.
		Total										

Details of Field Ground Investigation Performed (2)
- Sentul -

Type of Boring	Area	Sub-section	Boring No.	Boring Length			Undis- turbed Sampl- ing (Nos)	In-Situ Tests in Boreholes				
				Soil Boring (m)	Rock Boring (m)	Total (m)		Standard Penetra- tion Test (Nos)	Vane Test (Nos)	Pres- sure- meter Test (Nos)	In-Situ Perme- ability Test (Nos)	
Percussion Boring	Pilot Test Area	A		10.80	0	10.80	0	11	0	0	1	
		A'		10.03	0	10.03	0	10	0	0	1	
		A''		19.20	0	19.20	0	19	0	0	4	
		B		26.00	0	26.00	0	26	0	0	0	
		Sub-Total		66.03	0	66.03	0	66	0	0	6	
	Entire Area on Land	SB-1		13.05	0	13.05	0	13	0	0	0	
		SB-2		8.70	0	8.70	0	9	0	0	0	
		SB-3		10.52	0	10.52	0	11	0	0	0	
		SB-4		20.01	0	20.01	0	20	0	0	0	
		SB-5		17.02	0	17.02	0	17	0	0	0	
		SB-6		36.10	0	36.10	0	36	0	0	0	
		SB-7		10.10	0	10.10	0	10	0	0	0	
		SB-8		12.03	0	12.03	0	12	0	0	0	
		SB-9		16.80	0	16.80	0	17	0	0	0	
		Sub-Total		144.33	0	144.33	0	145	0	0	0	
	Total		210.36	0	210.36	0	211	0	0	9		
	Rotary Drilling	Pilot Test Area	A''	A	21.25	8.20	29.45	3	7	0	1	0
				B	14.15	5.55	19.70	0	0	2	5	0
			B	A	29.00	7.00	36.00	9	14	0	5	0
B				26.00	7.50	33.50	0	1	11	0	3	
Sub-Total				90.40	28.25	118.65	12	22	13	11	3	
Test Embankment			SBH-1 ^{#1}	18.11	0	18.11	8	10	27	0	0	
			SBH-2 ^{#1}	20.15	0	20.15	8	12	23	0	0	
			SBH-3 ^{#2}	25.00	0.50	24.50	17	9	36	0	0	
			SBH-4 ^{#2}	23.06	0	23.06	9	7	17	0	0	
			SBH-5 ^{#3}	24.20	0	24.20	11	7	11	0	0	
			SBH-6 ^{#3}	26.17	0	26.17	10	11	12	0	0	
Sub-Total				136.69	0.50	136.19	63	56	126	0	0	
Total				227.09	28.75	254.84	75	78	139	11	3	
Grand Total		437.45	28.75	465.20	75	289	139	11	12			

Notes: #1 SBH-1 and SBH-2 were performed before trial embankment.
#2 SBH-3 and SBH-4 were performed after 1st stage embankment.
#3 SBH-5 and SBH-6 were performed after 2nd stage embankment.

Microgravity Survey

Gravity survey

The Bouguer anomaly map (Plate 1) shows the raw results of the survey - Interpretative maps are :

- Residual anomaly (Plate 2)
- Seconde derivative (Plate 3).

Bouguer anomaly (Plate 1)

This map shows important gravity variations.

A gravimetrical depression, perfectly closed, is located in the central part of the survey. It is bounded by an important gradient on its northern limb and by a dome on its southern limb.

The gravimetrical depression axis is approximately located N.E. - S.W. The dome axis is arch shaped.

These first elements show principal features of the limestone substratum morphology.

Anyway, through some irregular isogams, secondary events appear, their origin being deep or near surface, but showed off by variations of the gravimetrical gradient.

Residual anomaly (Plate 2)

The determination of a regional anomaly is always difficult considering the small perimeter of the surveyed area. The problem is to define large variations of the Bouguer anomaly, generated by the deep geological context.

Bouguer anomaly values decrease from North to South of the survey. In the Northern part, they reach 1741 hundredths of milligal, then 1736 in the Southern part and 1695 hundredths in the SB 9 drill hole zone.

In a first approximation, the regional anomaly can be represented as a inclined plane from N. E. to S.W. Its isogams are showed in dash lines on the plate 2 and its gradient is about 0.09 mgal/100 m. Anyway, this regional anomaly is approximate and its shape could be more complex.

Residual anomalies show :

- A very important negative anomaly (-23,0 hundredths of milligal) in the Northern centre of the survey, characterized by its axis N.E - S.W.

- An important positive anomaly (+ 5.3 hundredths), with its axis, arch shaped towards the North, from East to West.

- The presence of an important gradient to the North, bounding the negative anomaly extension.

These gravimetrical structures define the limestone top morphology :

- A closed depression exists in the central part, bounded by a relief characterized by a small depth top.

- A calcareous edge, in relief, rather strait, (10 m to 15 m) is located in the Southern part. It is arch shaped and the relief decreases to the West.

- In the extreme Southern, depressions are located in K0 and in the S.W. angle of the survey, in D0 and E0.

Second derivative (Plate 3)

This interpretative map displays small variations in curves or gradients observed in the above maps, able to bring more information concerning the limestones morphology.

Calculated residual values indicate the presence of positive or negative anomalies.

What are their significations ?

Anomalies of this type correspond to a decrease or to an increase of gradients i.e. to a lack or an excess of mass.

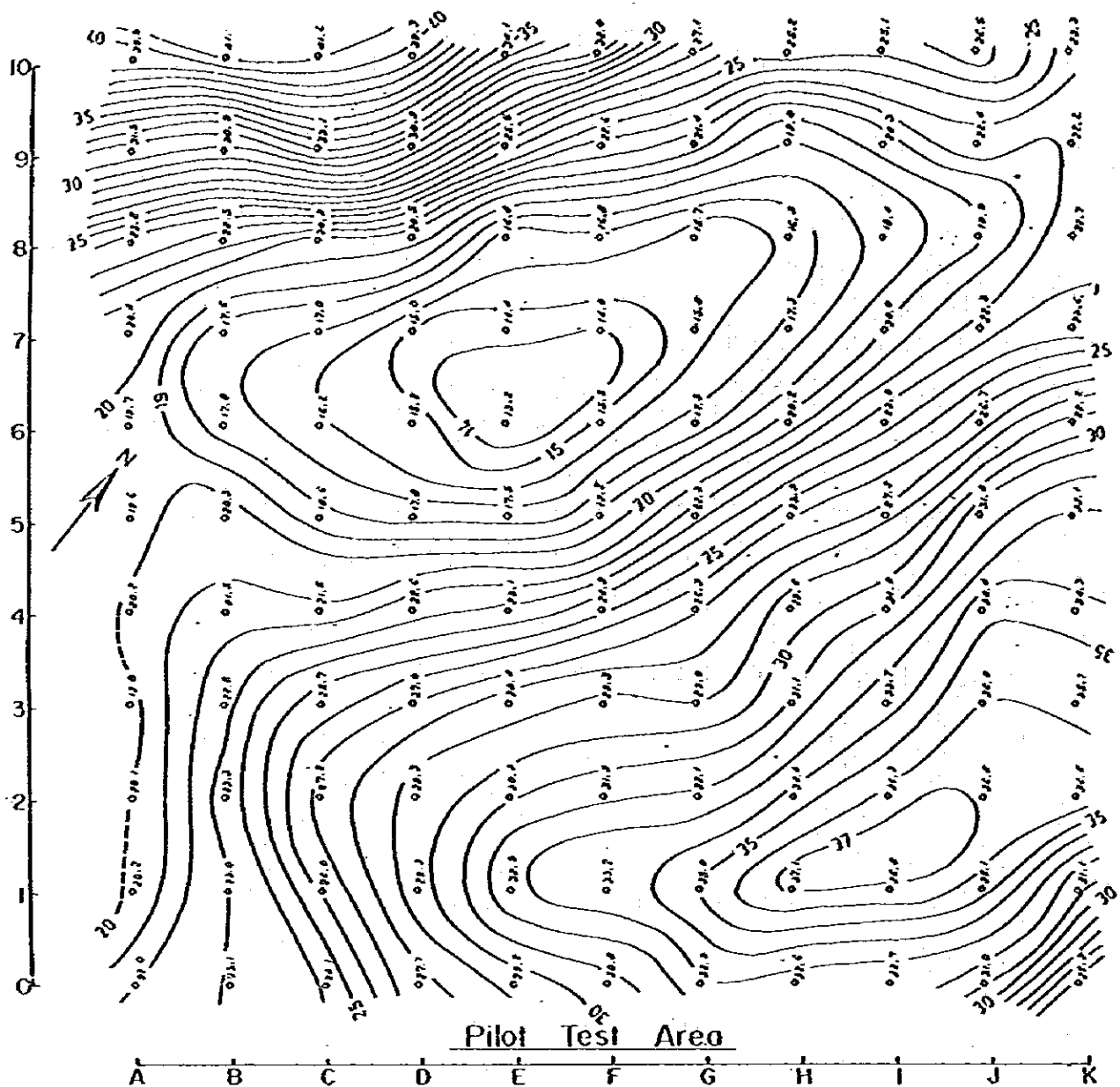
Considering that the sandy argillaceous covering is homogeneous in density, this information completes results obtained previously.

Positive anomalies could define calcareous outcrops to the following gravity stations :

- J0, J1, I1, H1, G1, E1, C2, C3, B5, B10, C9, D10, F10, J9, K2, K8, J4, J5, K5 and H4, H5, also deep depressions along two axis staked by H9, E6 and F9, D6 and also to stations C8, B8, J8, K0, C0 and A8.

The disadvantage of this procedure is a lack of information around the perimeter of the survey coming from the interpolation of the g values.

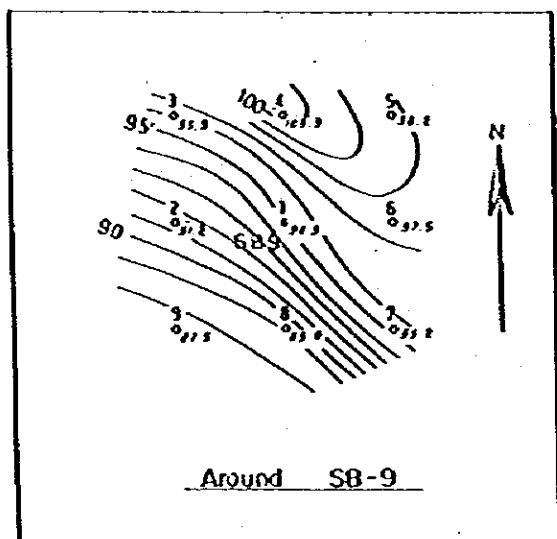
Fictitious residual values are underlined in the plate 3.



Scale : 0 10 20 (m)

Density : 2.0

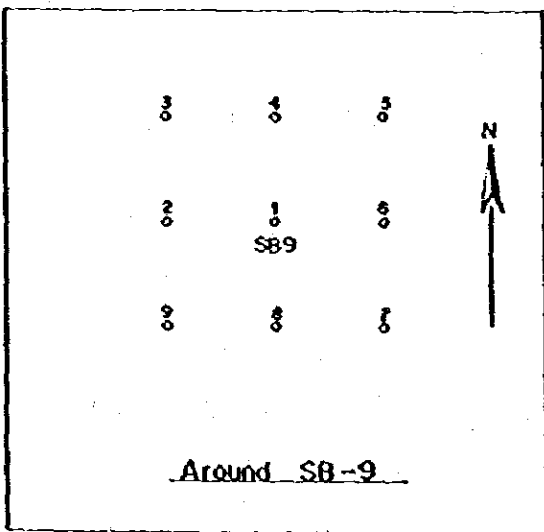
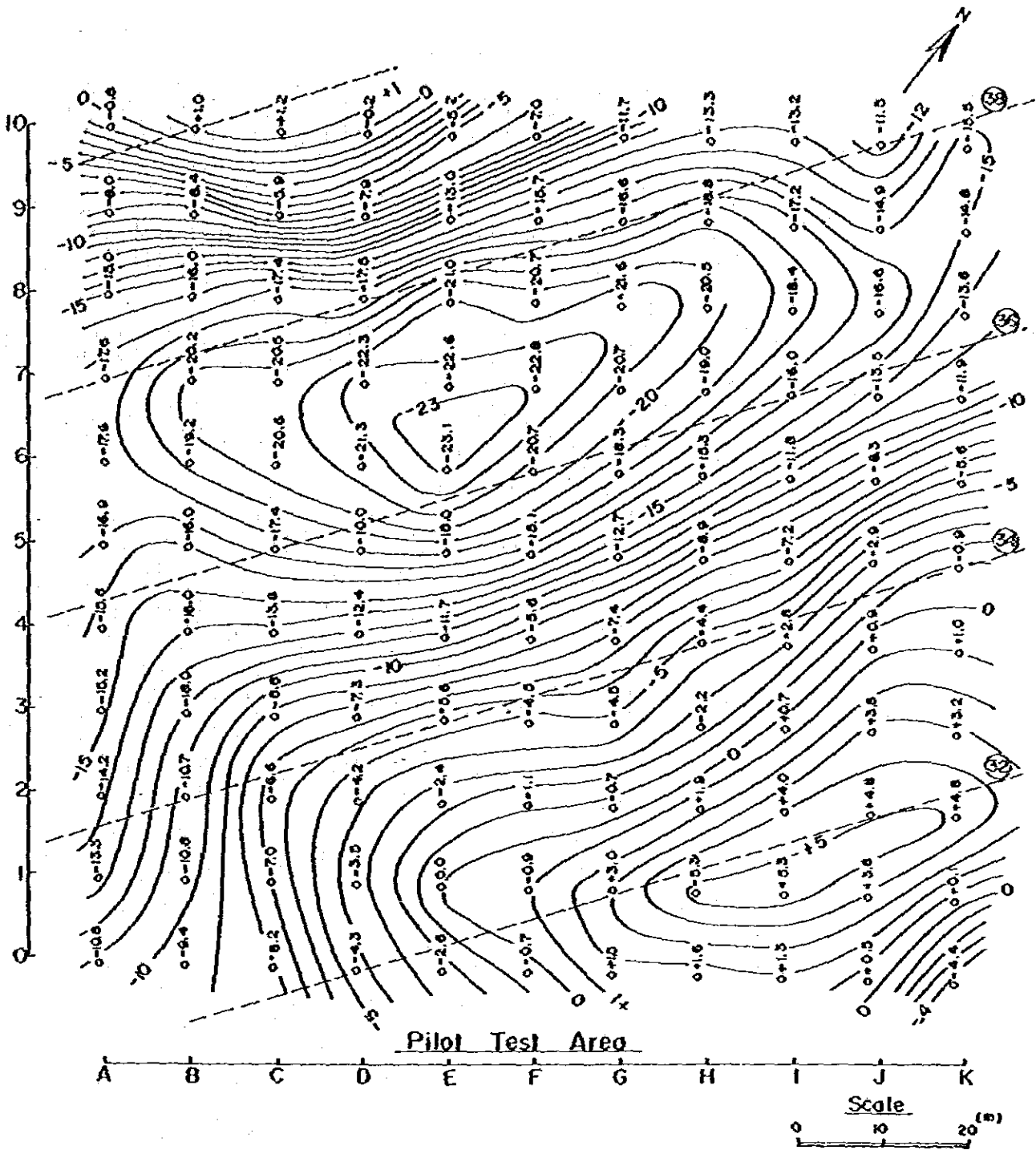
Contour interval : 0.01mgal



Result of Microgravity Survey

— Sentul —

I Borguer Anomaly



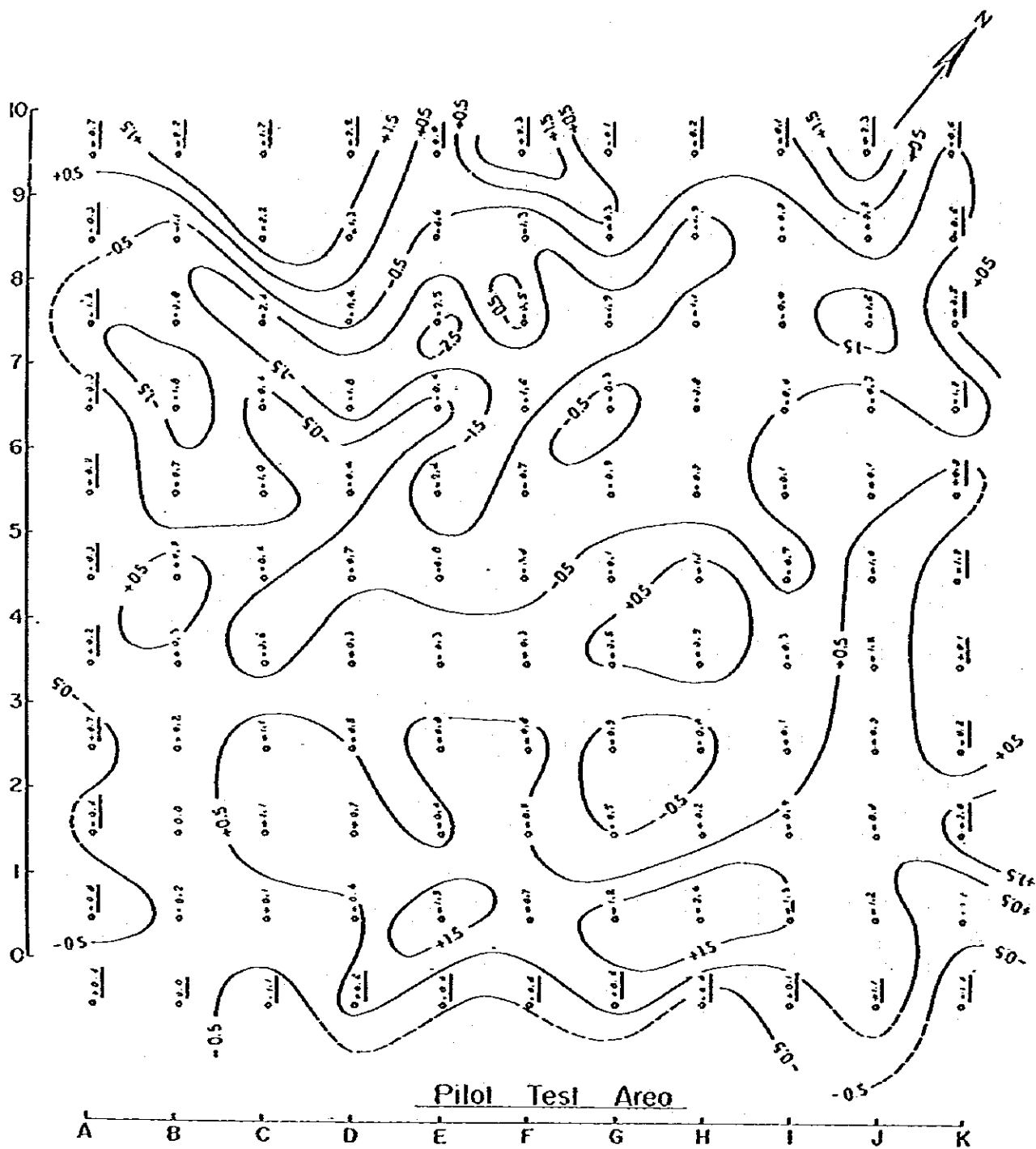
Regional Anomaly : 34 - - - -

Contour Interval : 0.01mgal

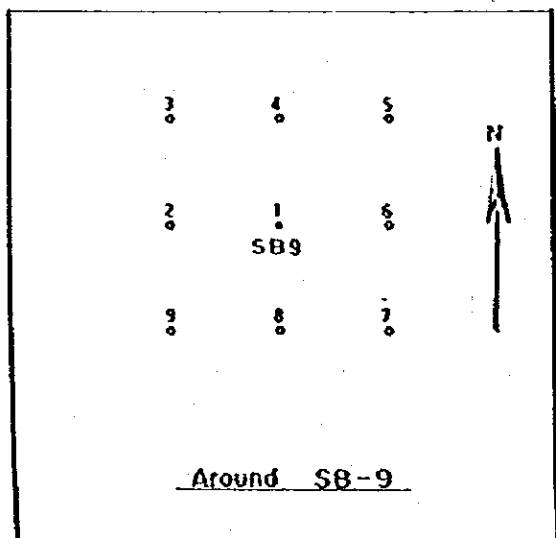
Result of Microgravity Survey

- Sentul -

2. Residual Anomaly



Scale 0 10 20^(m)



Interpolated Value : +0.4mgol
 Contour Interval : 0.01mgol

Result of Microgravity Survey
 - Sentul -

3. Second Derivative
 B-38

Electrical Survey

Electrical sounding interpretation

Electrical soundings diagrams confirm that the sandy argillaceous covering is principally formed by conducting layers with resistivities between 15 and 80 ohm.meter and that the limestones present resistivities superior to 300 ohm.meter.

All diagrams were analysed using processing programs and a checking shows that all electrical sections were consistent with theoretical electrical soundings superimposable to soundings realized in the field (with a 3 % exceptions).

As hypothesis, we admit, in this interpretation, that the undersoil corresponds to an horizontal stratification, that is not exact in the present context. The effect of the irregular structure of the limestone is showed on certain diagrams where we can see grades superior to 45° which are unacceptable in an horizontal structure hypothesis.

This approximation certainly causes errors concerning depths of the calcareous basement. In fact, this estimation is more or less rigorous. Thus, on the drill hole B near the drill hole SE 19, the depth determined by the electrical sounding is different from the depth given by the drilling. On the other hand, the depth given by the drilling SB 9 coincides with the electrical sounding depth.

Map of limestone tops (Pl. 5)

This test only gives the general aspect of the morphology. This aim is to allow a better comparison between gravimetrical and electrical results, as described in the following paragraph.

Map of apparent resistivities (AB = 50 m) (Plate 6)

The length of the utilized line is too short to define lateral variations of the calcareous structure. Resistivity values are still partially influenced by variations of the covering resistivity.

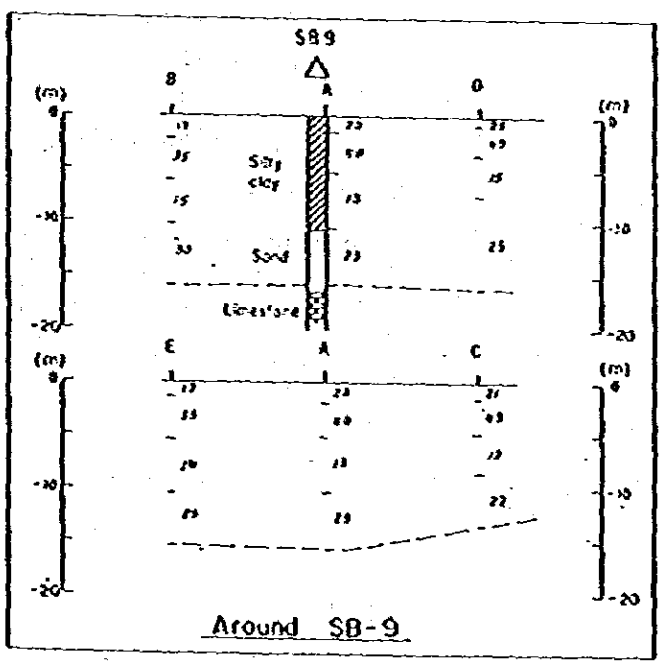
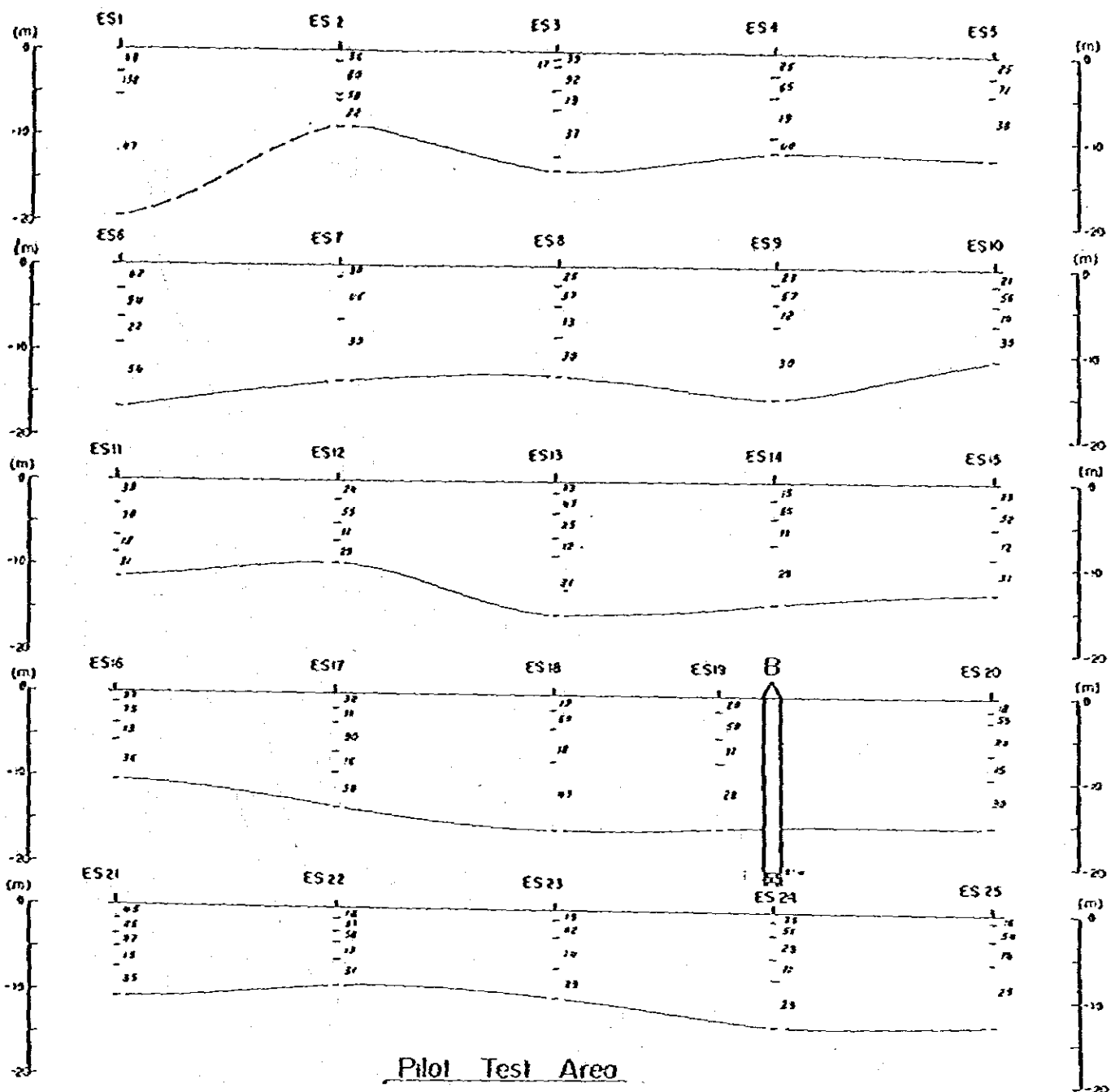
Map of apparent resistivities (AB = 140 m) (Plate 7)

In this case, resistivities principally show depths variations of the calcareous under-soil. But, the influence of the covering resistivities must be also taken into consideration.

The map shows :

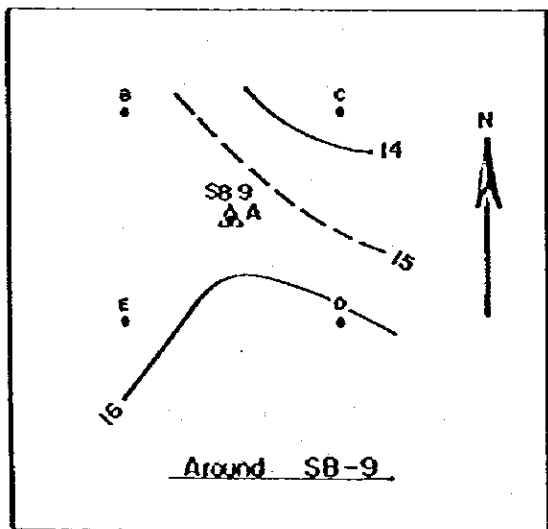
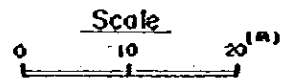
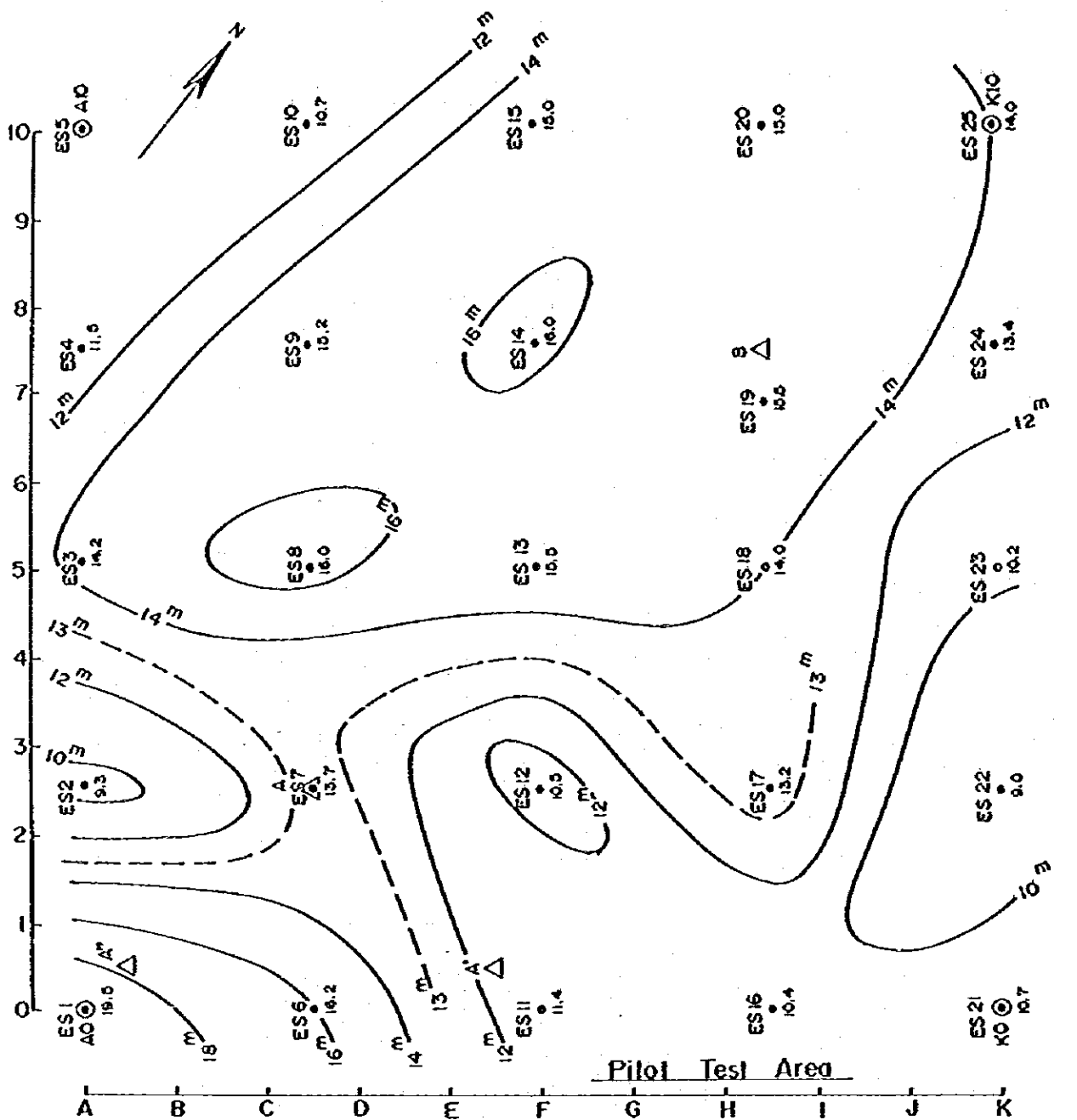
- In the Central part, a low resistivity zone where the conductor is consistent with the residual negative anomaly observed in gravity.
- In the Northern part, the conducting zone is bounded by a gradient of resistivity, showing an important decrease of the covering thickness.
- In the Southern part, it appears a zone of high resistivity, equivalent but not superimposable to the positive anomaly observed in gravity.

Note the presence in H5 of a small anomaly comparable to the positive anomaly observed on the second derivative map (Plate 3).



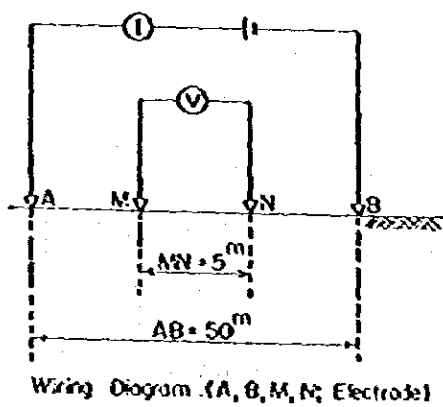
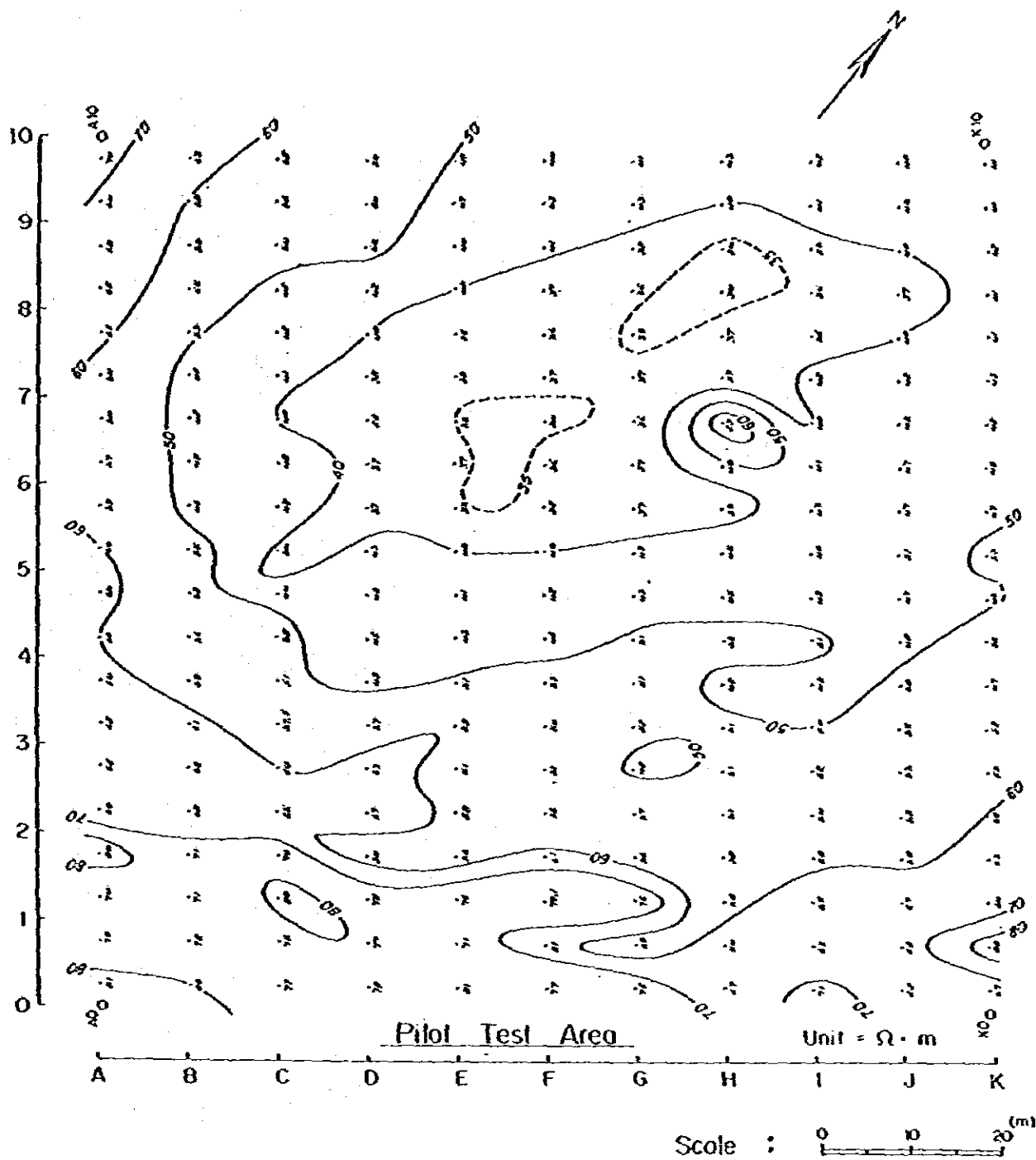
Scale : 0 10 20 (m)

Result of Electrical Survey
 - Sentul -
 1. Electrical Cross-Sections



- Sounding No. ——— ES16
- Location of Electrical sounding ——— ●
- Depth of Limestone (m) ——— 10.4
- Gravimetric station ——— XO
- Drill hole ——— A' △

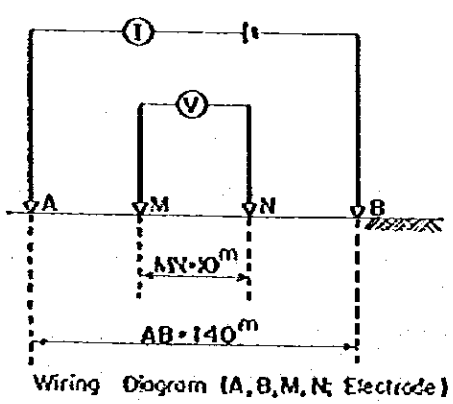
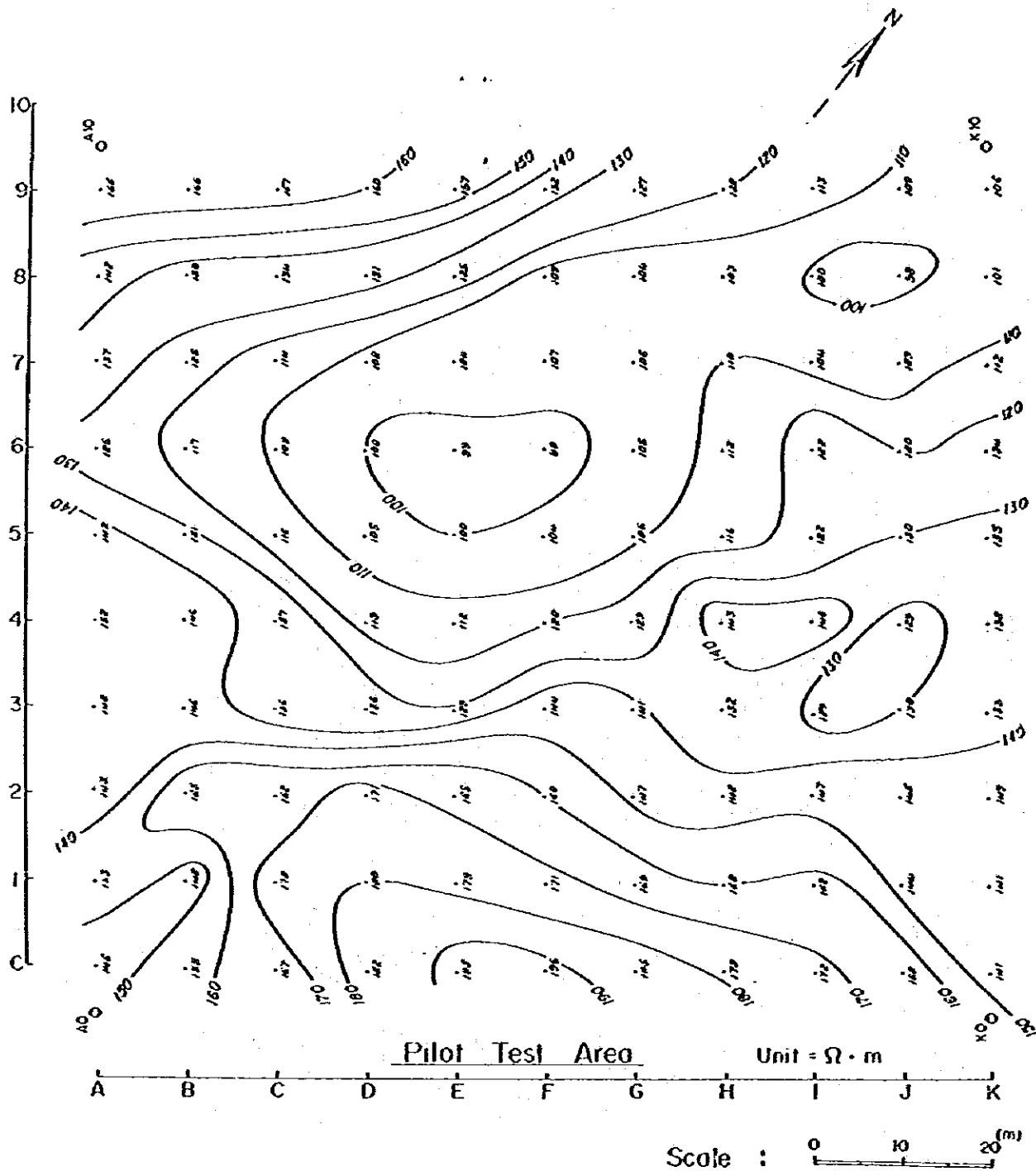
Result of Electrical Survey
- Sentul -
2. Limestone Top



Result of Electrical Survey
— Sentul —

3. Resistivity Map (1)

— Apparent Resistivities —



Result of Electrical Survey
- Sentul -

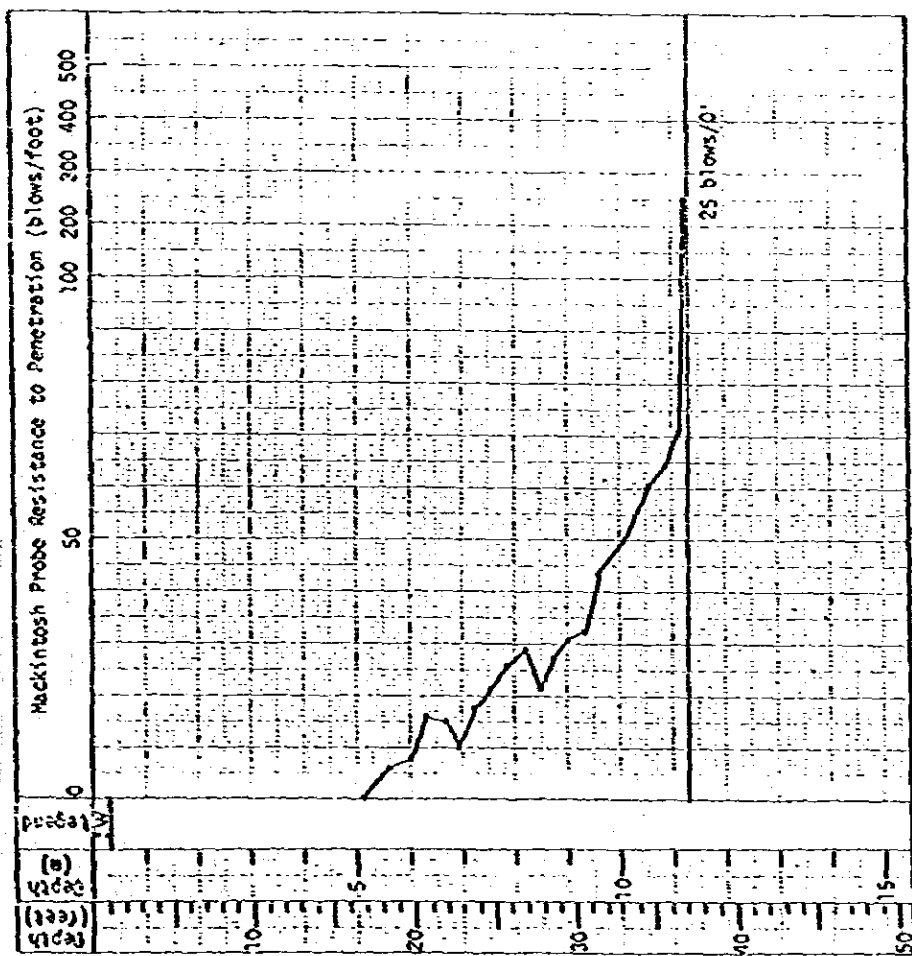
4. Resistivity Map (2)

- Apparent Resistivities -

MACKINTOSH PROBE TEST

Project: Feasibility Study for the Reclamation Project of Ex-mining Land for Housing Development and Other Purposes - Phase I

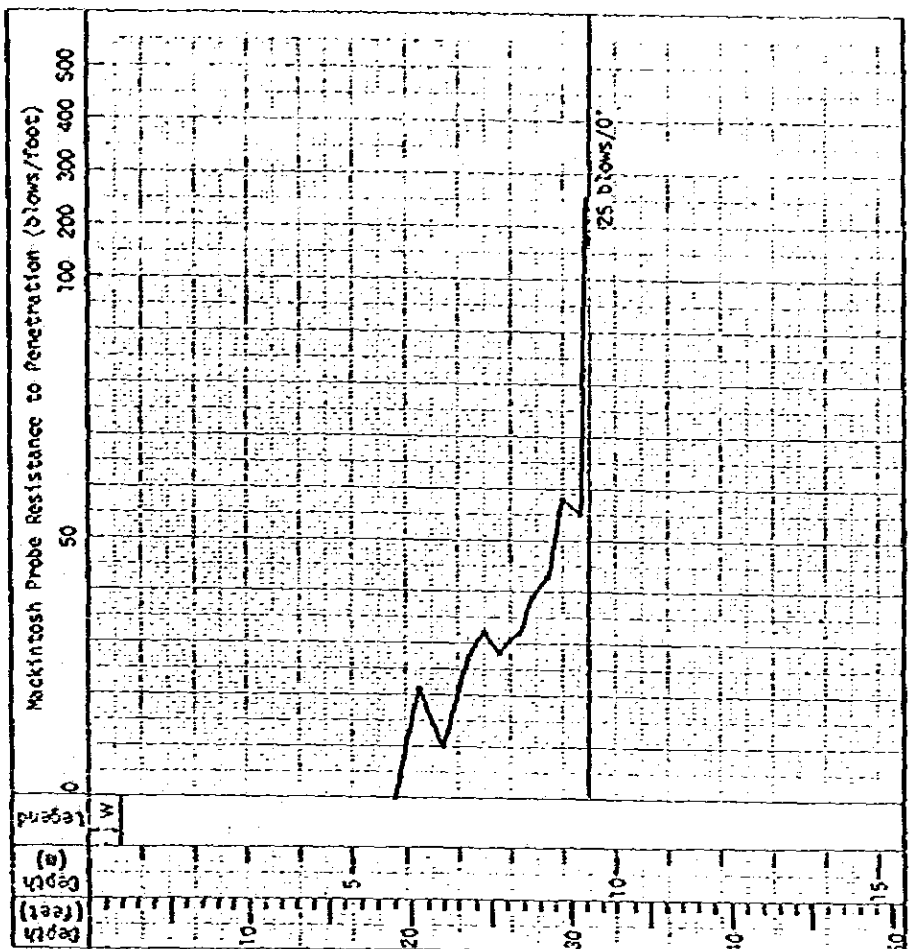
Location: Sentzu1 Test No.: MS-1
Date: 24/1/80 Water Depth: 0' 0" - 1' 0"
Depth of Test: 0' 0" - 37' 0" Elevation: -



MACKINTOSH PROBE TEST

Project: Feasibility Study for the Reclamation Project of Ex-mining Land for Housing Development and Other Purposes - Phase I

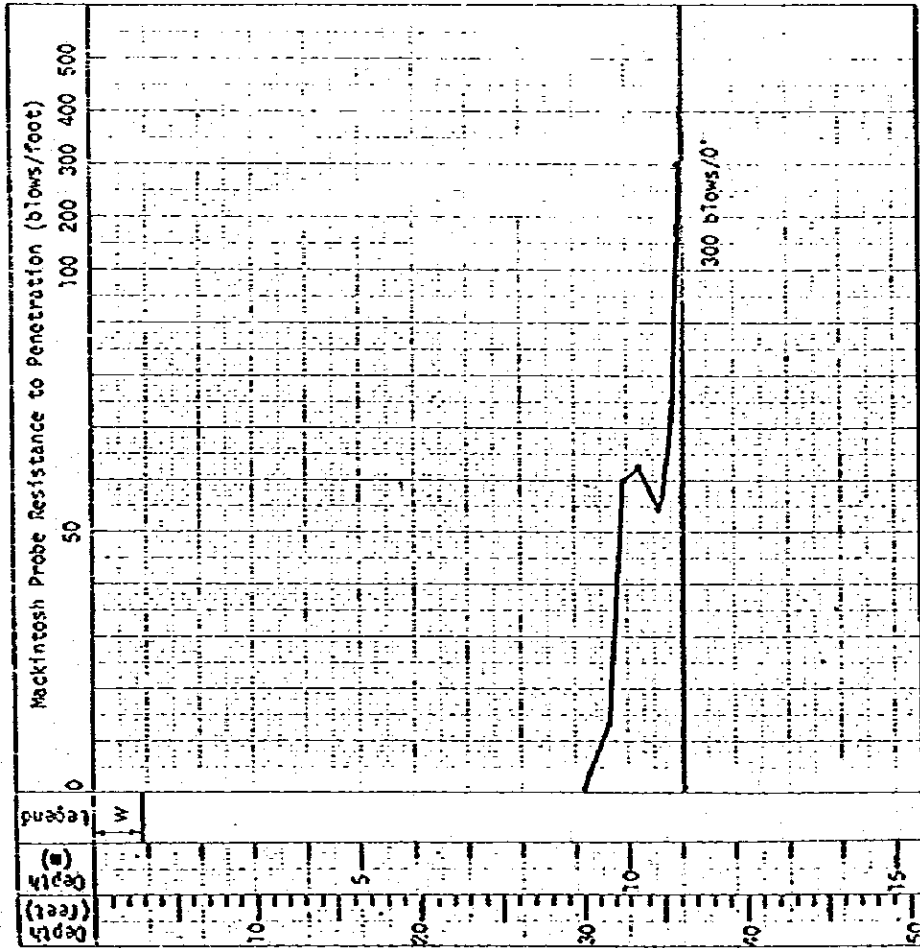
Location: Sentzu1 Test No.: MS-2
Date: 24/1/80 Water Depth: 0' 0" - 2' 0"
Depth of Test: 0' 0" - 31' 0" Elevation: -



MACKINTOSH PROBE TEST

Project: Feasibility Study for the Reclamation Project of Examining Land for Housing Development and Other Purposes - Phase I

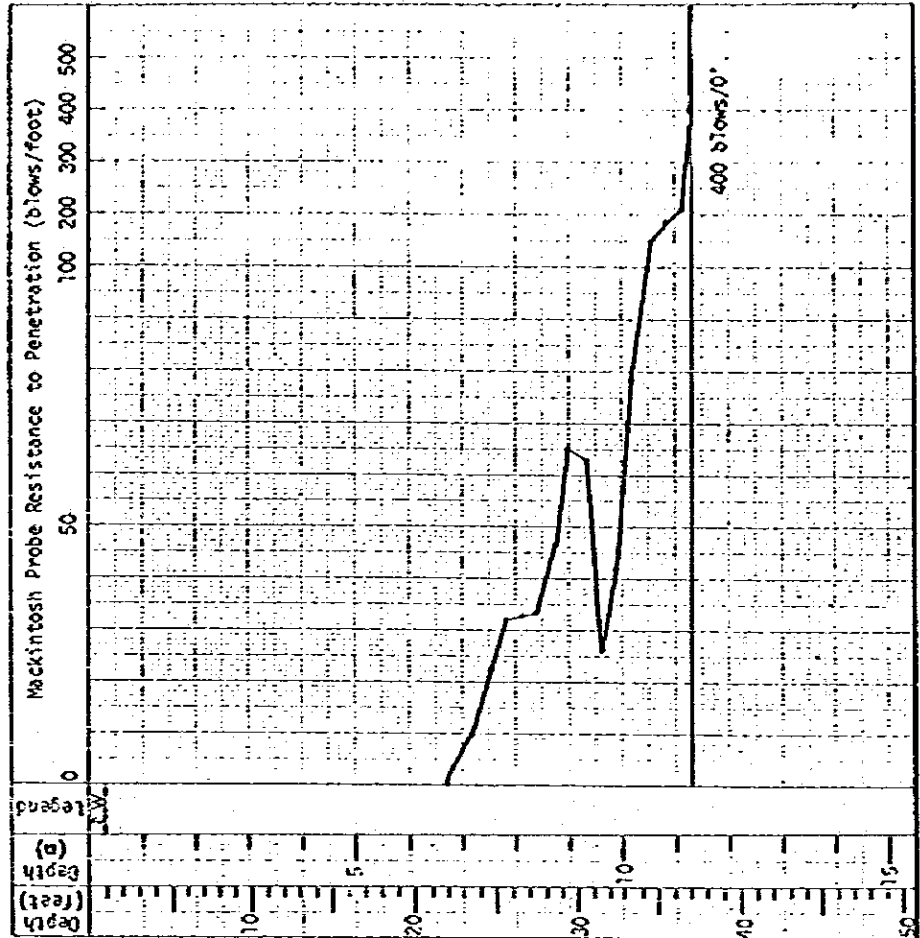
Location: Sentul Test No.: MS-3
 Date: 24/1/80 Water Depth: 0' 0" - 3' 0"
 Depth of Test: 0' 0" - 36' 0" Elevation: -



MACKINTOSH PROBE TEST

Project: Feasibility Study for the Reclamation Project of Examining Land for Housing Development and Other Purposes - Phase I

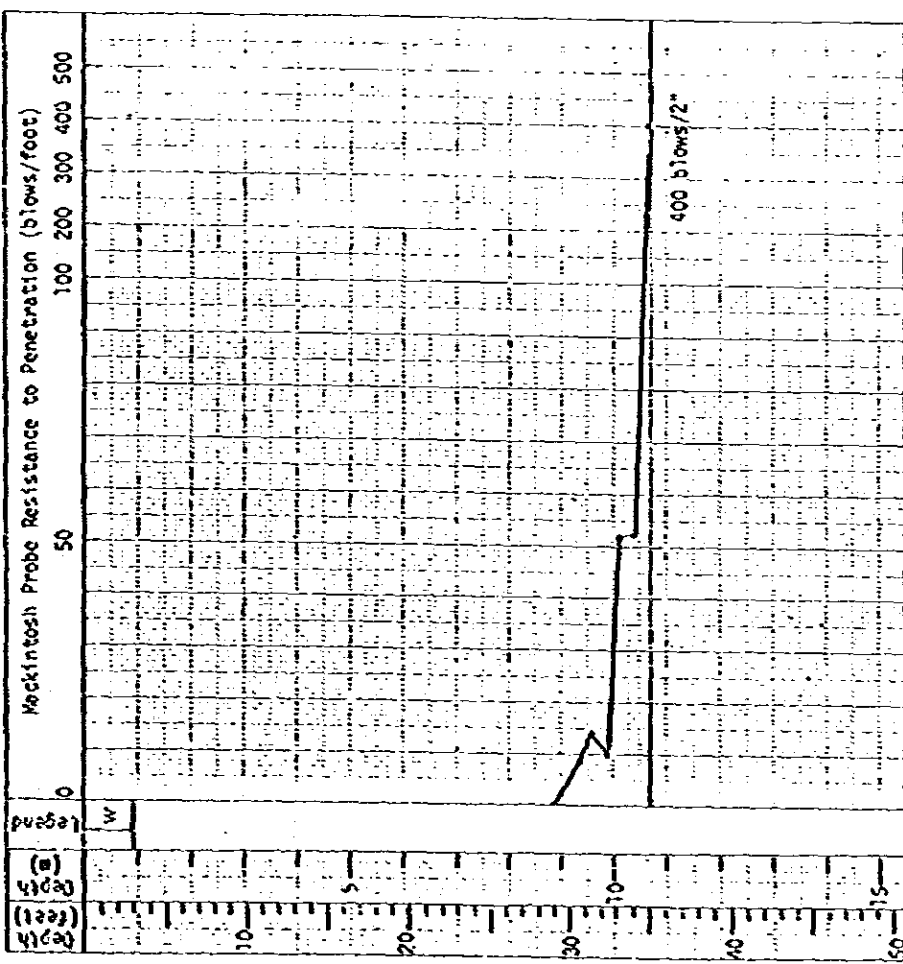
Location: Sentul Test No.: MS-4
 Date: 24/1/80 Water Depth: 0' 0" - 1' 0"
 Depth of Test: 0' 0" - 37' 0" Elevation: -



MACKINTOSH PROBE TEST

Project: Feasibility Study for the Reclamation Project of Examining Land for Housing Development and Other Purposes - Phase I

Location: Sentul Test No.: MS-5
 Date: 24/1/80 Water Depth: 0' 0" - 3' 0"
 Depth of Test: 0' 0" - 35' 0" Elevation: -



DYNAMIC CONE TEST

Project : Feasibility Study for the Reclamation Project of Ex-mining Land for Housing Development and Other Purposes - Phase I

Test No.: Aⁿ Date: 21-1-80 Depth of Test 19.2m Elevation: _____ Ground Water Table: _____

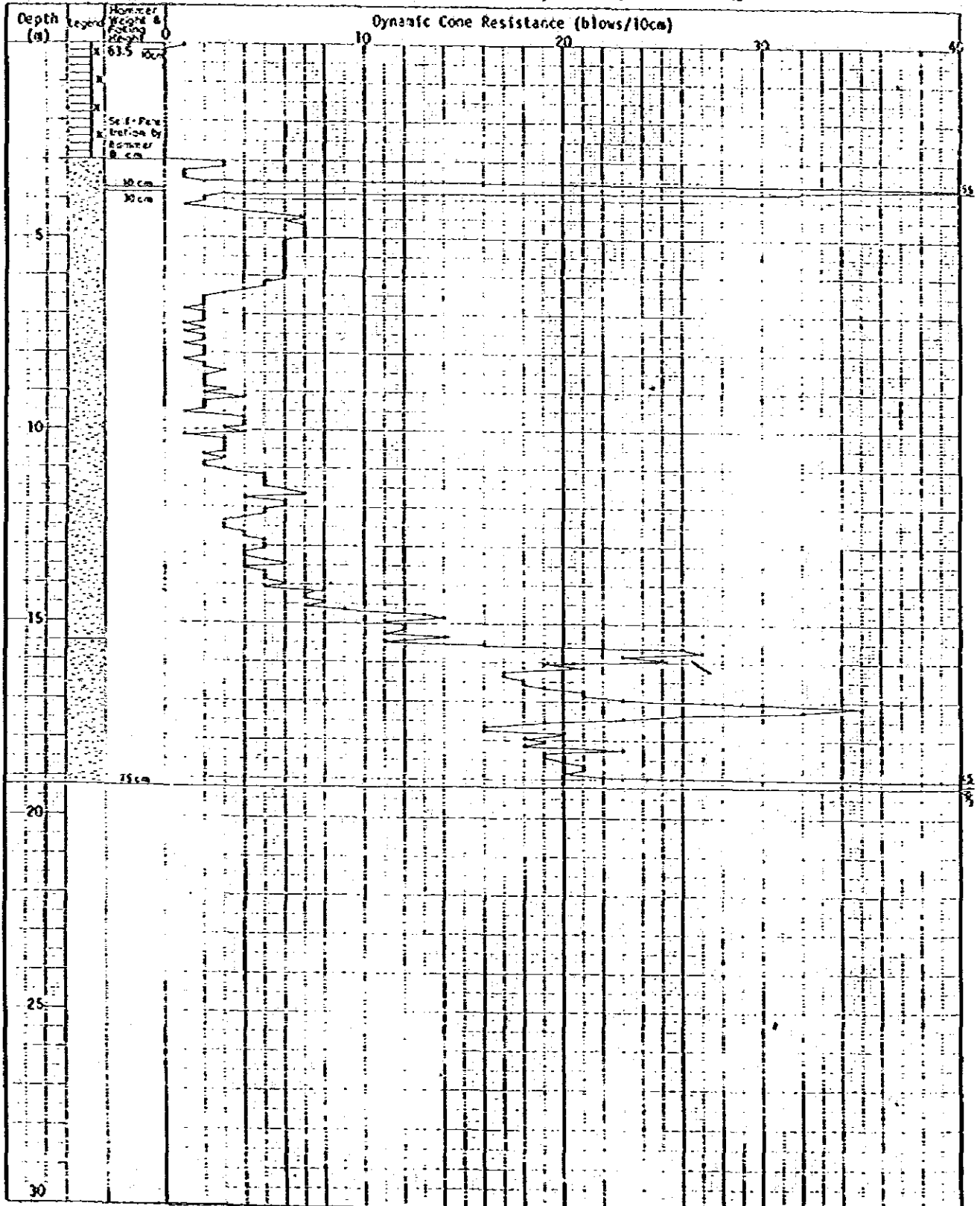
Hammer Weight (kg)	Falling Height (cm)	Depth (m)
63.5	10	0.0 ~ 0.1
63.5	Self penetration by hammer	0.1 ~ 3.0
63.5	10	3.0 ~ 3.7
63.5	30	3.7 ~ 3.8
63.5	75	3.8 ~ 19.2

Cone Type _____

Rod Diameter: 38mm

Cone Angle: 60°

Imprint Area: 10 sq.cm



DYNAMIC CONE TEST

Project : Feasibility Study for the Reclamation Project of Ex-mining Land for Housing Development and Other Purposes - Phase I

Test No.: 8 Date: 12.2.80 Depth of Test 14.2 m Elevation: _____ Ground Water Table: _____

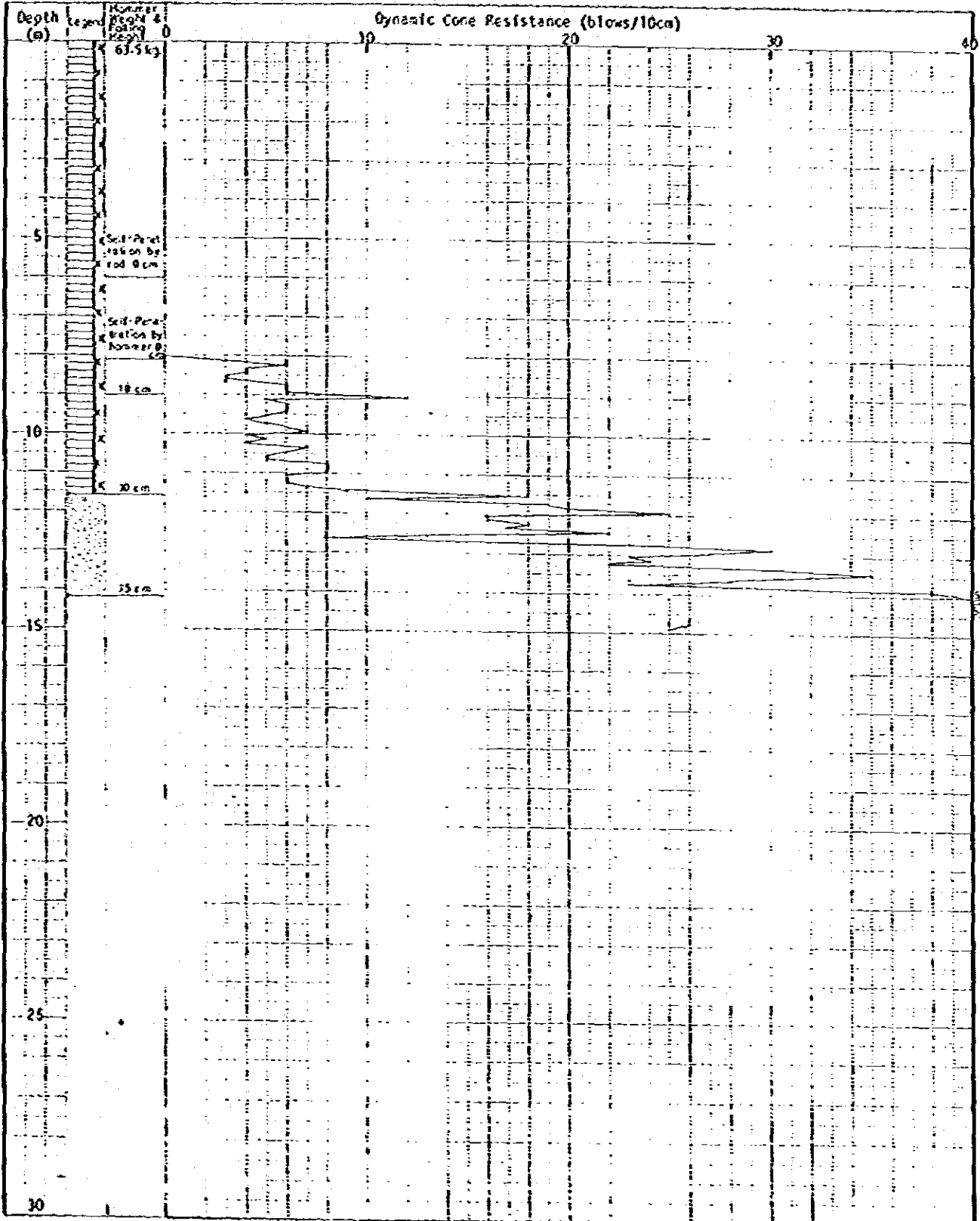
Hammer Weight (kg)	Falling Height (cm)	Depth (m)
63.5	Self penetration by rod	0.0 ~ 6.0
63.5	Self penetration by hammer	6.0 ~ 8.1
63.5	10	8.1 ~ 9.1
63.5	30	9.1 ~ 11.6
63.5	75	11.6 ~ 14.2

Core Type _____

Rod Diameter: 40.5mm

Core Angle: 60°

Imprint Area: 10 sq. cm.



Summary of Swedish Sounding Carried out at the Pilot Test Area
 - Sentul -

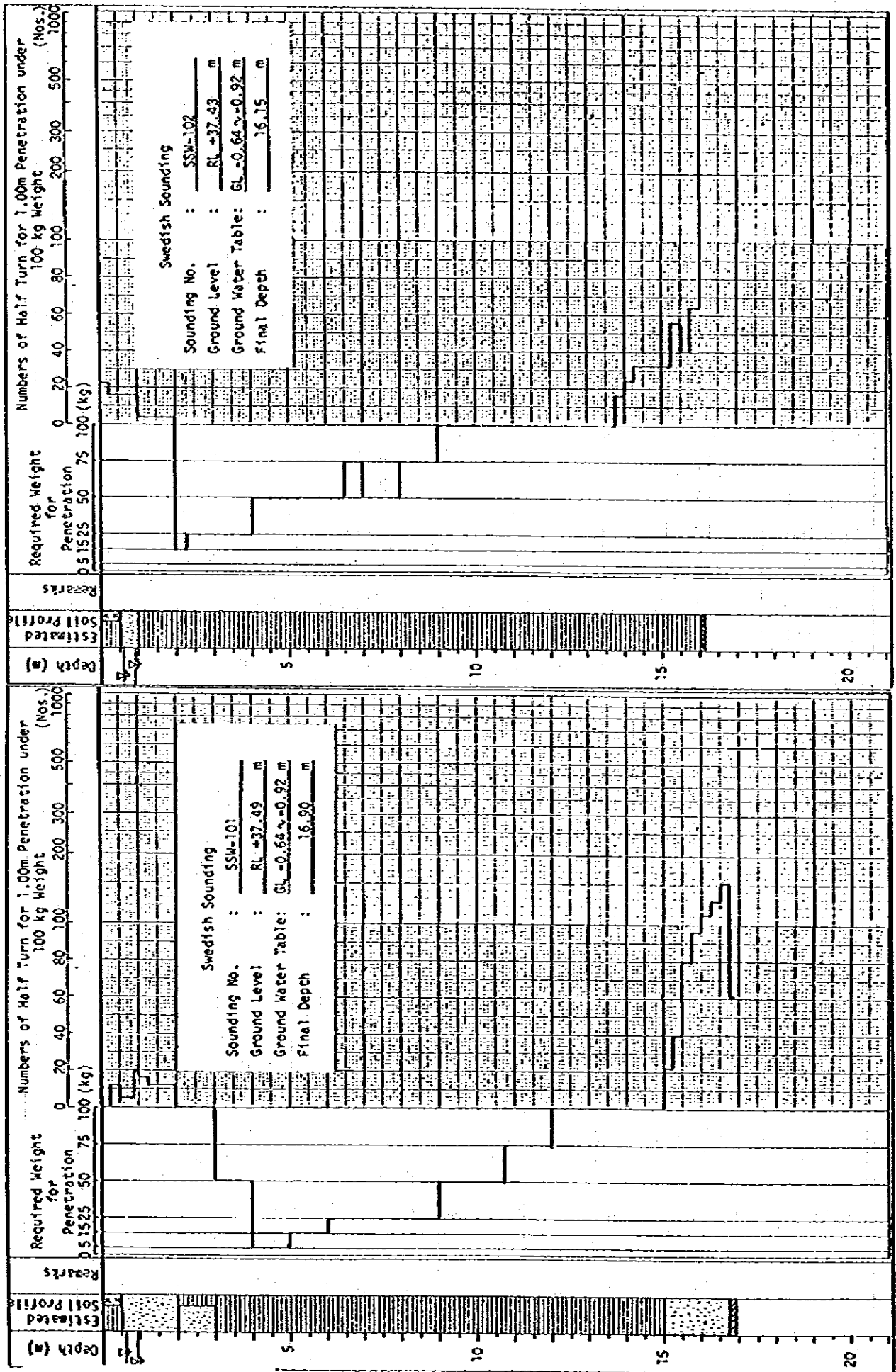
Point No.	Ground Level (RL+m)	Depth of Water (m)	Penetration Depth under 100 kg Weight (m)	Penetration by the Last 10 Nos. of Half Turn (m)	Sounding Depth (m)	Materials at The Final Depth
B5	36.469	0.02	5.34	0.08	5.52	Sand
B6	36.387	0.07	5.45	0.46	5.91	Sand
B7	36.317	0.15	9.78	0.08	9.86	Sand
B8	36.347	0.13	8.07	0.32	8.39	Sand
B9	36.299	0.15	8.44	0.31	8.75	Sand
C5	36.430	0.30	5.43	0.28	5.71	Sand
C6	36.338	0.90	11.11	0.12	11.63	
C7	36.338	0.10	12.69	0.32	13.01	Sand
C8	36.317	0.19	12.55	0.13	12.68	Sand
C9	36.366	0.12	8.26	0.05	8.31	
C10	36.347	0.08	7.31	0.02	7.51	Limestone?
D5	36.427	0.08	15.40	0.04	15.44	
D6	36.350	0.13	11.49	0.46	11.95	Sand
D7	36.332	0.19	14.36	0.07	14.43	
D8	36.317	0.15	15.33	0.09	15.42	
D8.5	-	0.17	7.44	0.03	7.47	
D9	36.369	0.07	7.87	0.01	7.88	Limestone?
D10	36.427	0.11	6.88	0.01	6.89	Limestone?
E6	36.378	0.50	15.20	0.19	15.39	
F10	36.457	0.10	10.70	0.01	10.71	Limestone?
K10	36.536	0.10	9.00	0.09	9.09	
K8	36.399	0.10	8.35	0.14	8.49	
K6	36.436	0	8.22	0.20	8.42	
J7	36.427	0.10	9.44	0.08	9.52	
J9	36.384	0.15	11.12	0.17	11.29	
J11	-	0.05	8.72	0.03	8.75	
H10	36.405	0.15	14.09	0.04	14.13	
H8	36.338	0.15	15.34	0.09	15.43	
H6	36.418	0.05	12.09	0.07	12.16	
F7	36.366	0.10	15.44	0.03	15.47	
F9	36.357	0.15	15.49	0.22	15.71	
J5	36.448	0.05	10.32	0.09	10.41	
J10	36.443	0.10	12.73	0.06	12.79	
H12	-	0.10	12.24	0.05	12.29	
F12	-	0.15	9.23	0.10	9.33	
J6	36.460	0.05	8.15	0.16	8.31	
K5	36.521	0.10	7.80	-	7.80	
J4	36.454	0.10	8.89	-	8.89	
I4	36.485	0.10	7.48	-	7.48	
H4	36.457	0.10	8.78	-	8.78	
G4	36.418	0.10	8.61	-	8.61	
F4	36.408	0.10	7.66	-	7.66	
E4	36.393	0.10	9.23	-	9.23	
E5	36.399	0.10	11.97	-	11.97	
F5	36.369	0.10	12.34	-	12.34	
G5	36.396	0.10	11.27	-	11.27	
H5	36.408	0.10	11.38	-	11.38	
I5	36.433	0.10	9.05	-	9.05	
J8	36.360	0.10	11.02	-	11.02	
I11	-	0.10	12.65	-	12.65	
I10	36.424	0.10	11.78	-	11.78	
I9	36.369	0.10	12.23	-	12.23	
I7	36.384	0.10	10.61	-	10.61	
H7	36.332	0.10	10.45	-	10.45	
H9	36.366	0.10	14.58	-	14.58	
H11	-	0.10	10.78	-	10.78	
G10	36.375	0.10	13.67	-	13.67	
G9	36.341	0.10	12.61	-	12.61	
G8	36.305	0.10	14.48	-	14.48	
G7	36.338	0.10	11.20	-	11.20	
G6	36.399	0.10	11.77	-	11.77	
E12	-	0.10	7.60	-	7.60	
E10	36.418	0.10	9.00	-	9.00	
E8	36.353	0.10	14.25	-	14.25	
E7	36.369	0.10	13.25	-	13.25	
E9	36.363	0.10	12.72	-	12.72	
K11	-	0.10	10.80	-	10.80	
K9	36.347	0.10	10.82	-	10.82	
K7	36.430	0.10	8.93	-	8.93	
F6	36.262	0.10	11.80	-	11.80	
F8	36.341	0.10	14.40	-	14.40	
Total	71 locs.	-	-	-	770.31 m	

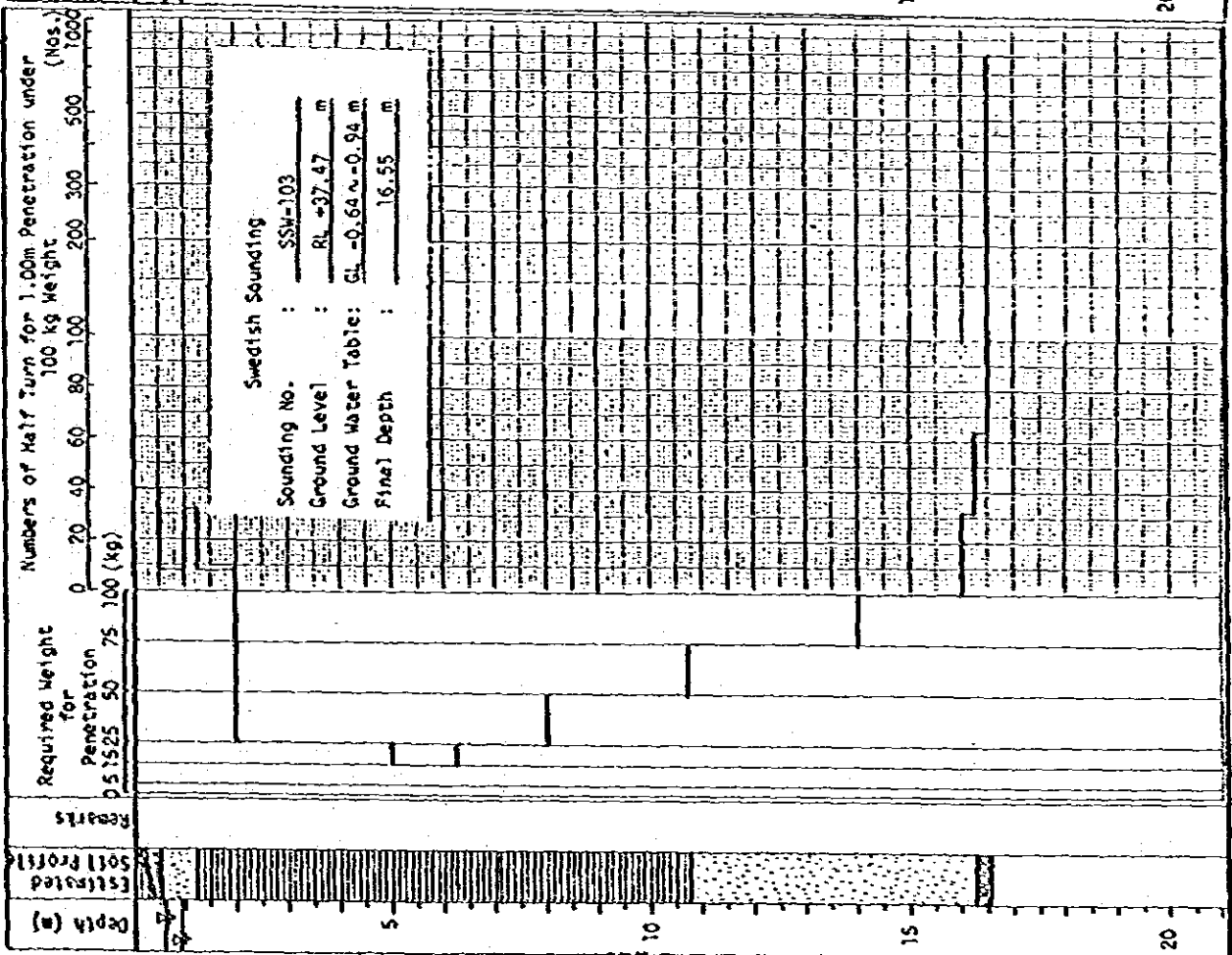
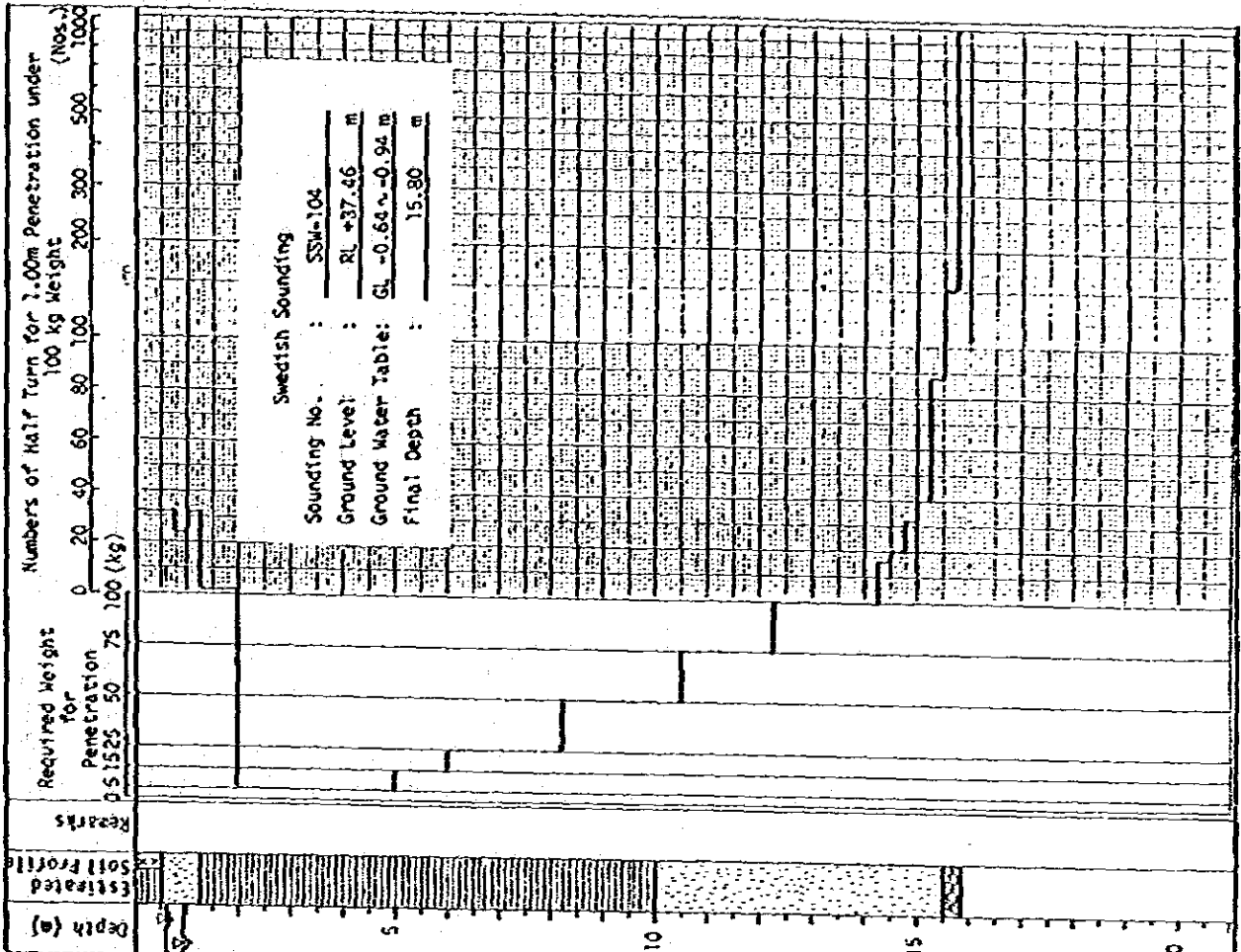
Summary of Swedish Sounding Carried out
at the Test Embankment Area

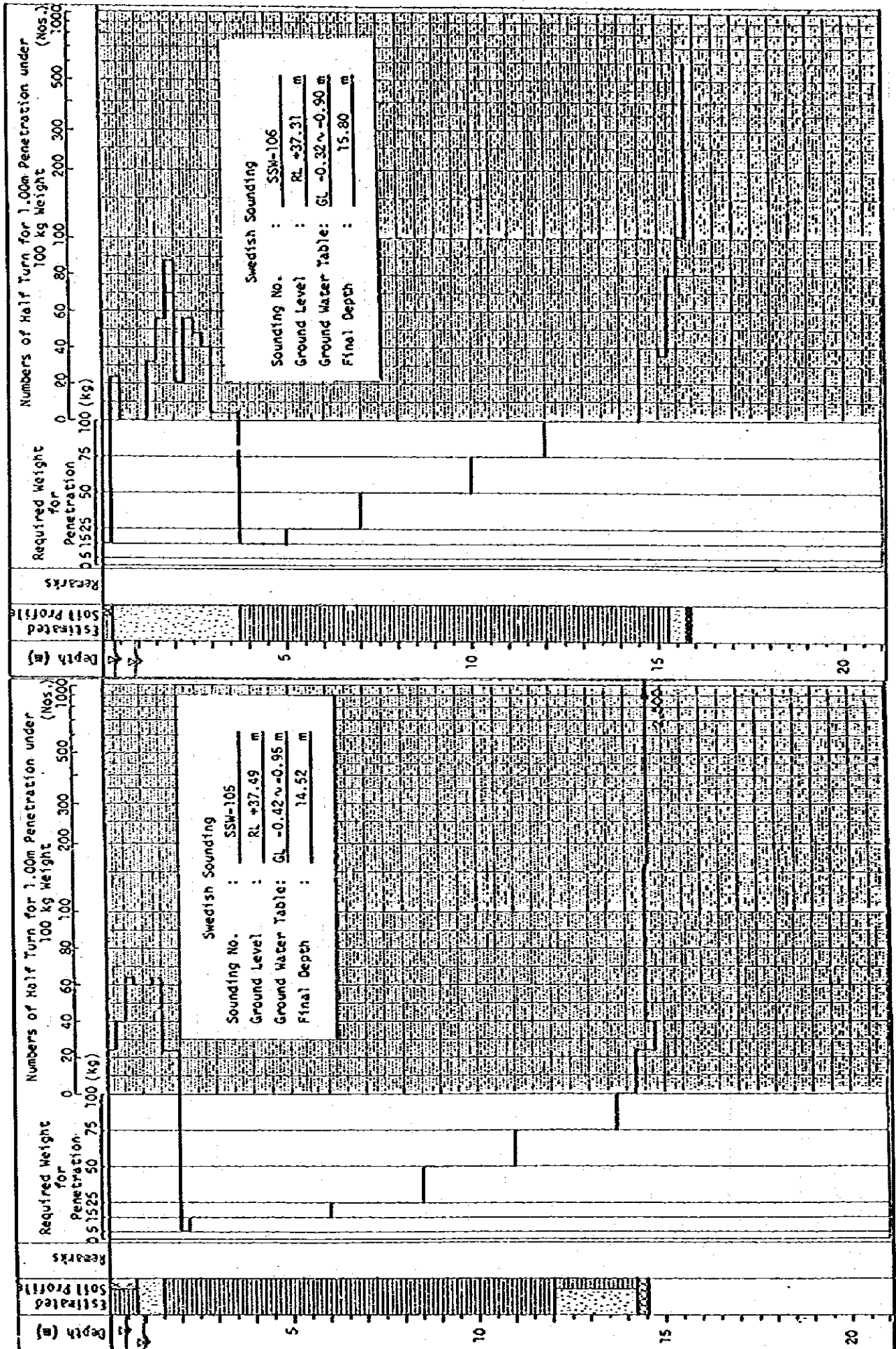
- Sentul-

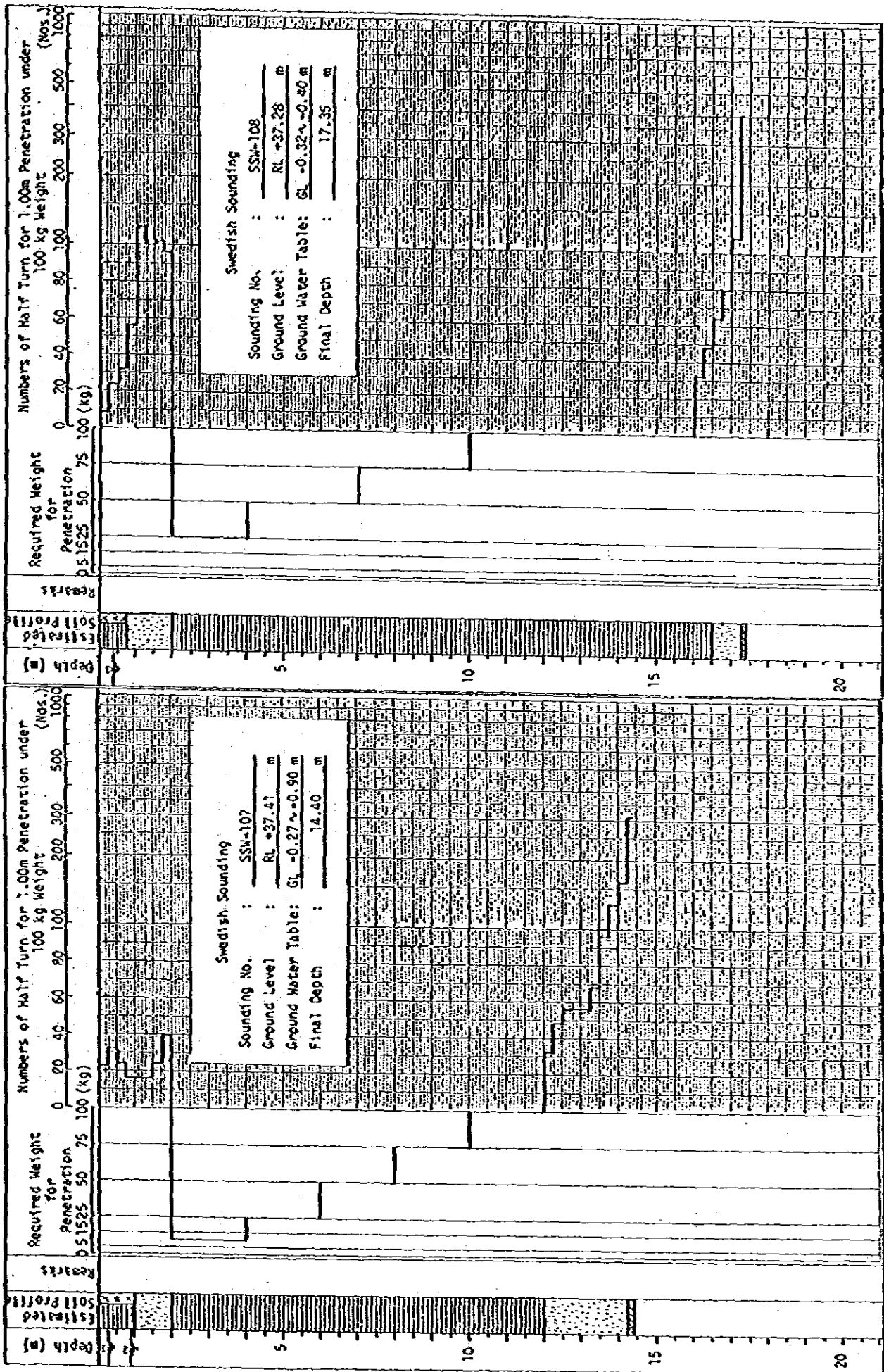
Swedish Sounding No.	Ground Level (RL + m)	Water Table* (GL ± m)	Water Table (16/1/81) (GL ± m)	Sounding Depth (m)	Remarks
SSW-101	37.49	-0.92	-0.64	16.90	
SSW-102	37.43	-0.92	-0.64	16.15	
SSW-103	37.47	-0.94	-0.64	16.55	
SSW-104	37.46	-0.94	-0.64	15.80	
SSW-105	37.49	-0.95	-0.42	14.52	
SSW-106	37.31	-0.90	-0.32	15.80	
SSW-107	37.41	-0.90	-0.27	14.40	
SSW-108	37.28	-0.40	-0.32	17.35	
SSW-109	37.23	-0.40	-0.36	15.60	
SSW-110	37.23	+0.10	-0.30	18.85	Sand Drain Area
SSW-111	37.39	+0.06	-0.42	17.70	
SSW-112	37.32	+0.04	-0.25	15.50	
SSW-113	37.42	-0.96	-0.56	16.70	
SSW-114	37.67	-0.96	-0.49	16.15	
SSW-115	37.43	-0.86	-0.60	16.90	
SSW-116	37.43	-0.44	-0.35	15.75	
SSW-117	37.41	-0.40	-0.45	15.70	Sand Drain Area
SSW-118	37.39	-0.40	-0.45	18.40	
SSW-119	37.50	-0.40	-0.32	16.40	
SSW-120	37.44	-0.86	-0.40	14.90	
SSW-121	37.43	-0.86	-0.32	15.20	
SSW-122	37.39	-0.86	-0.52	13.70	
SSW-123	37.23	-0.36	-0.36	21.50	
SSW-124	37.26	-0.44	-0.44	16.50	
SSW-125	37.26	-0.60	-0.60	16.55	
Total	25 locations	-	-	409.47	

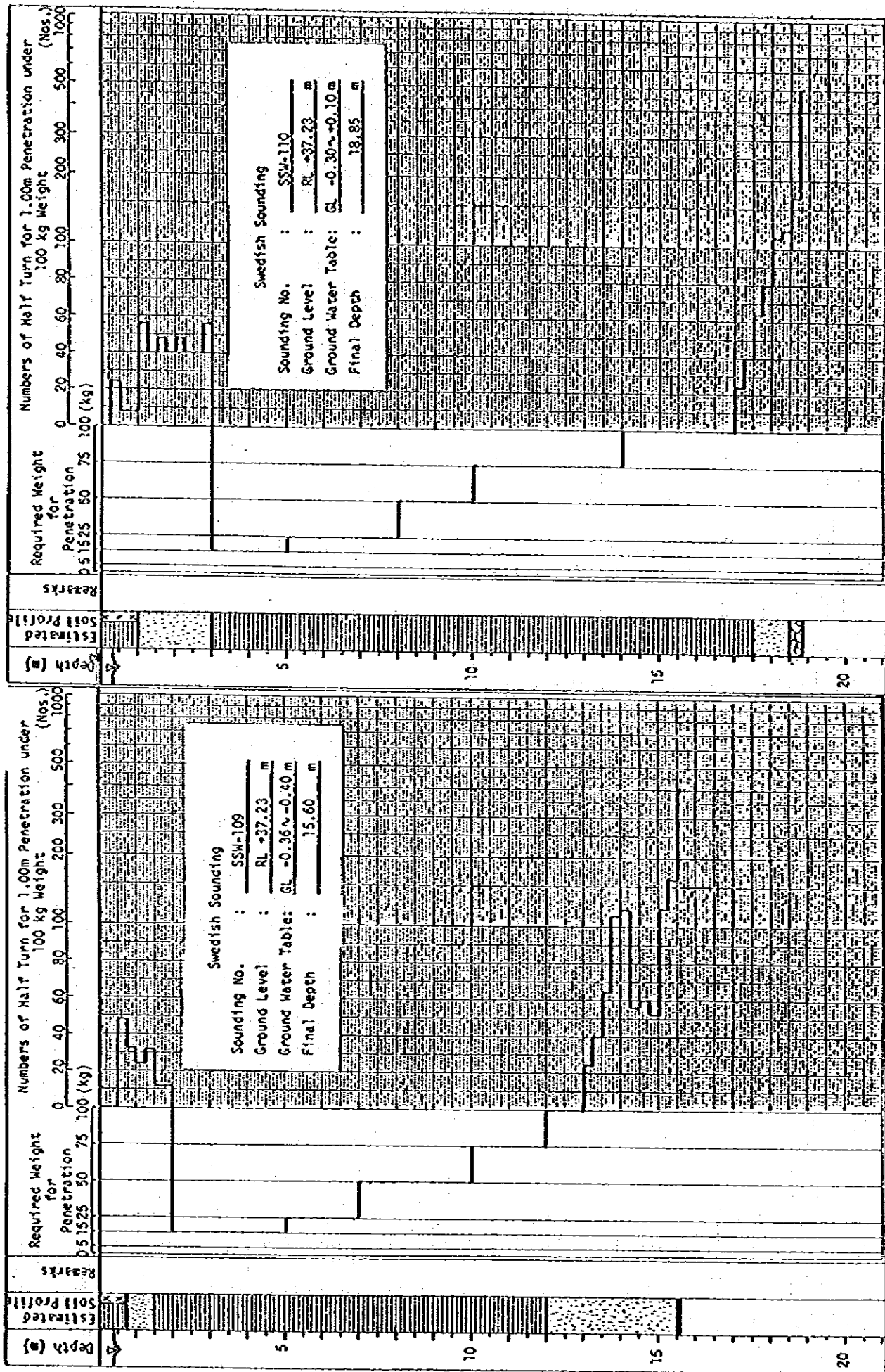
* At the time at which Swedish Sounding was performed.

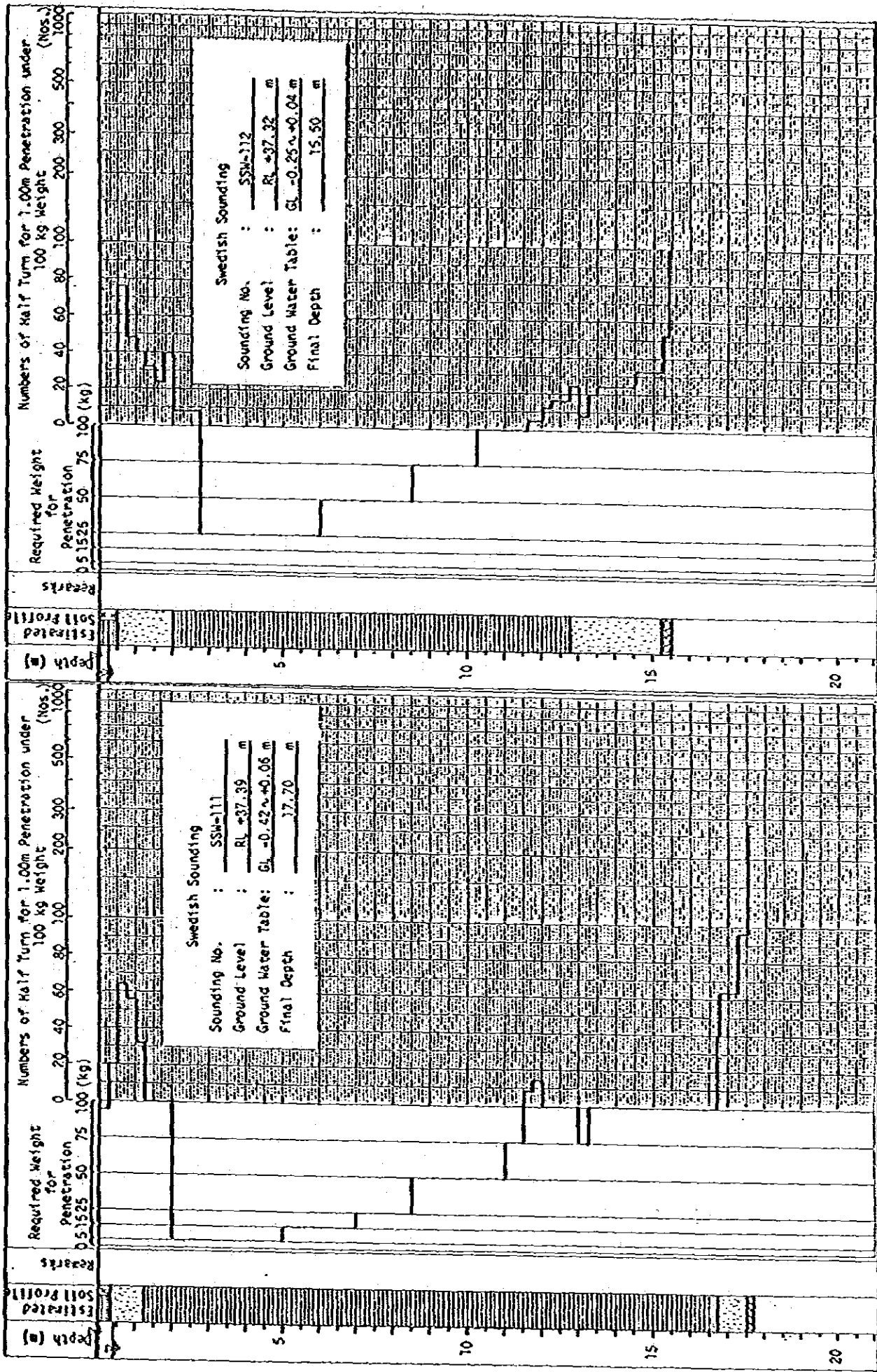


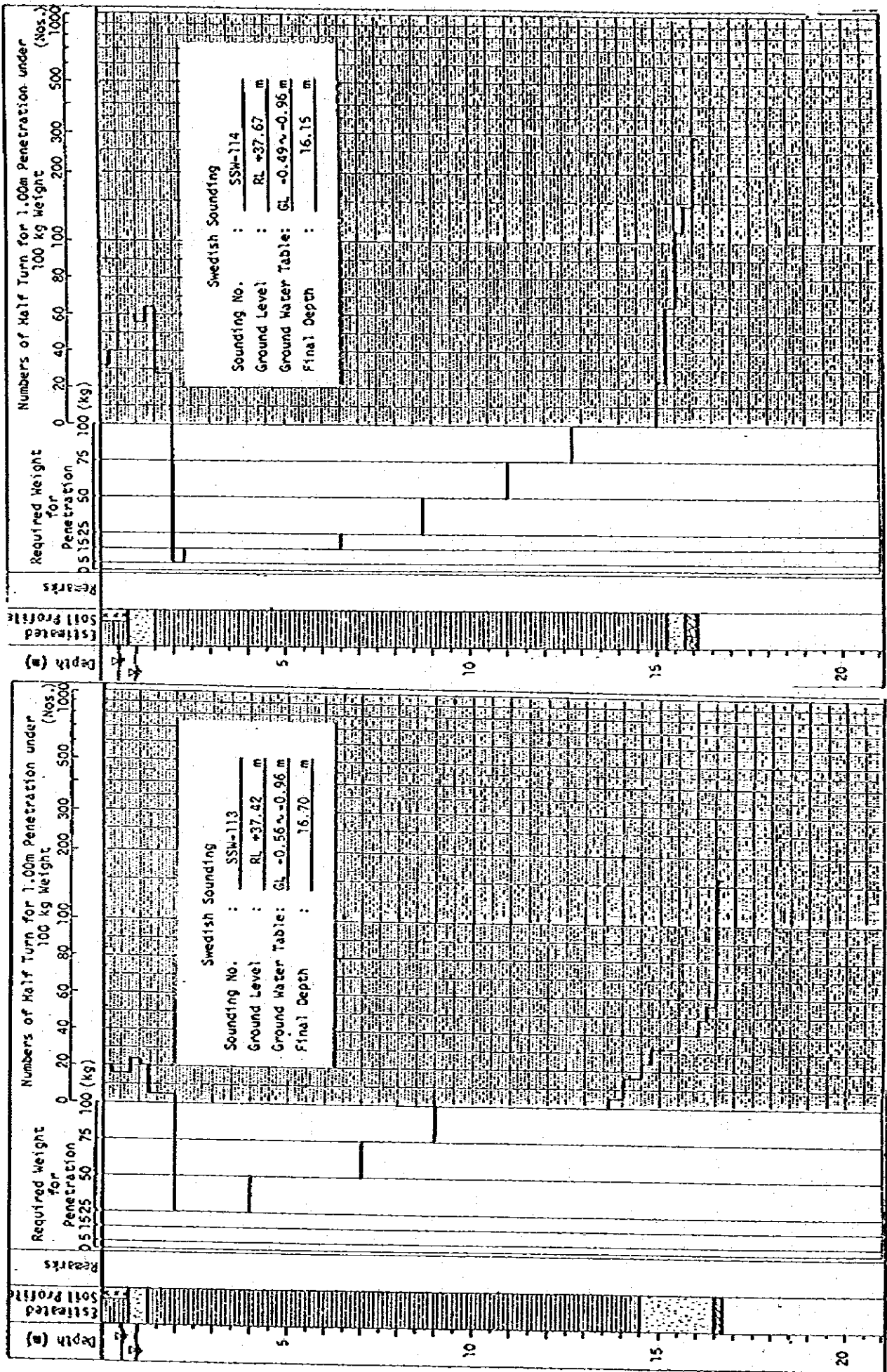


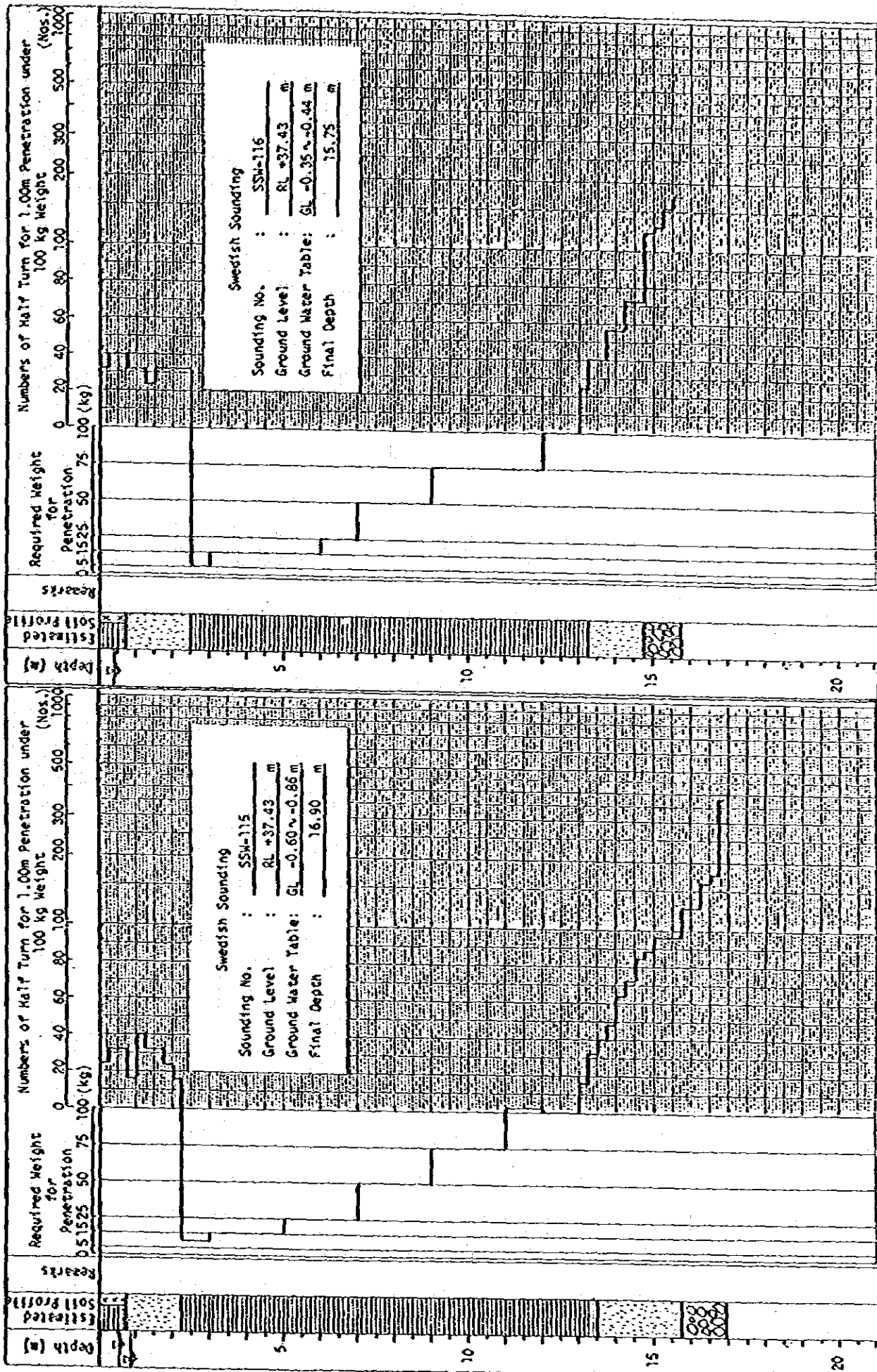


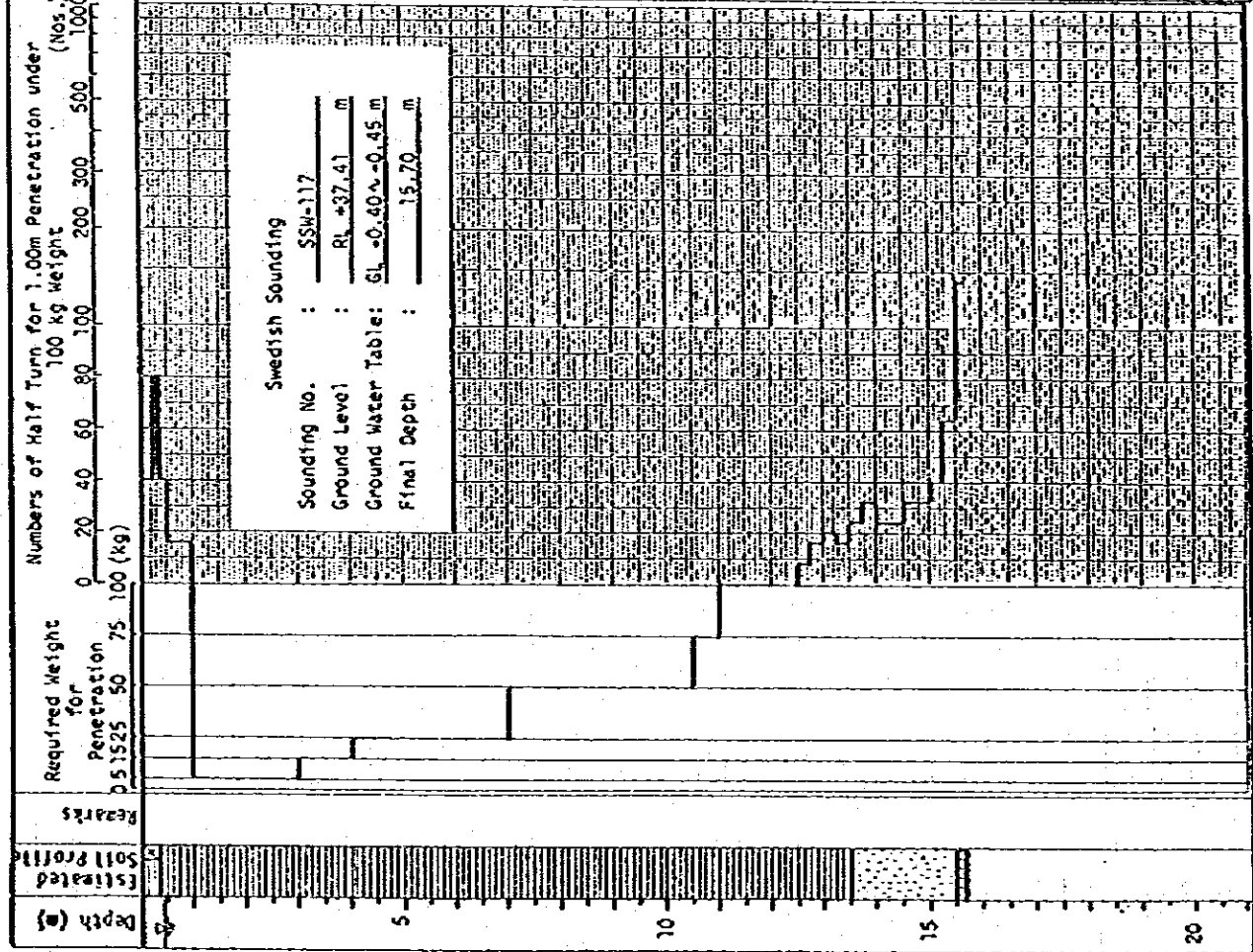
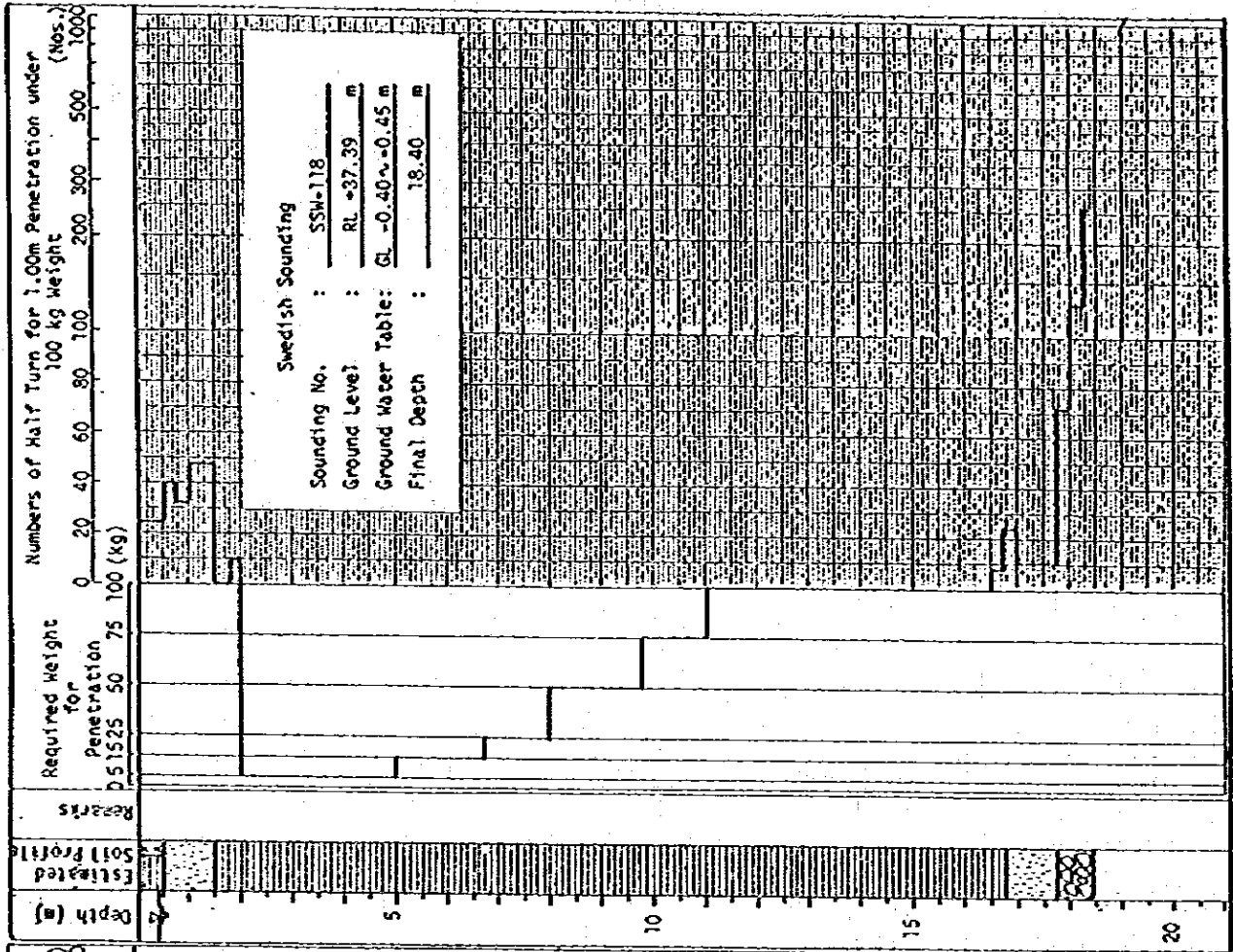


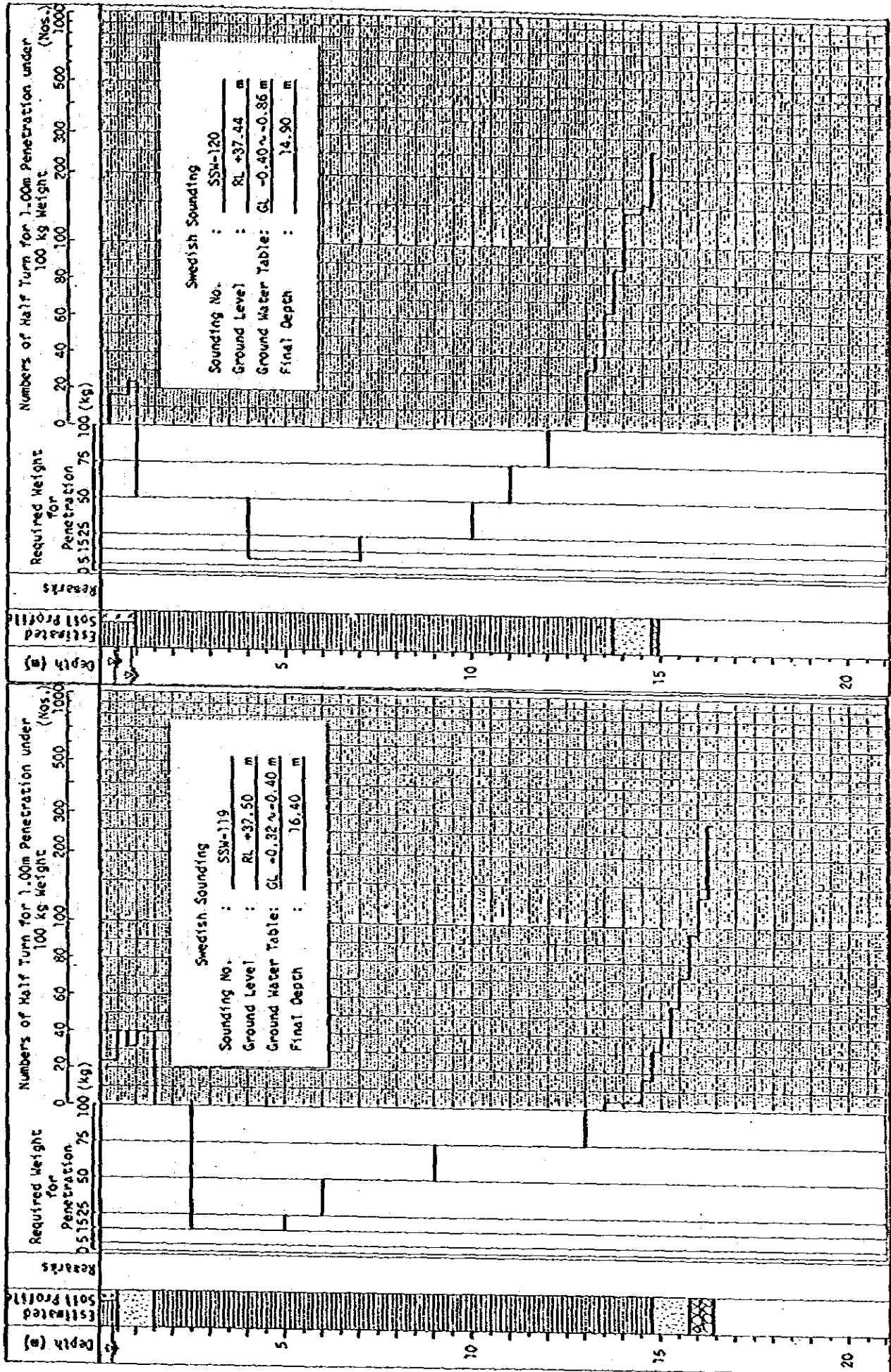


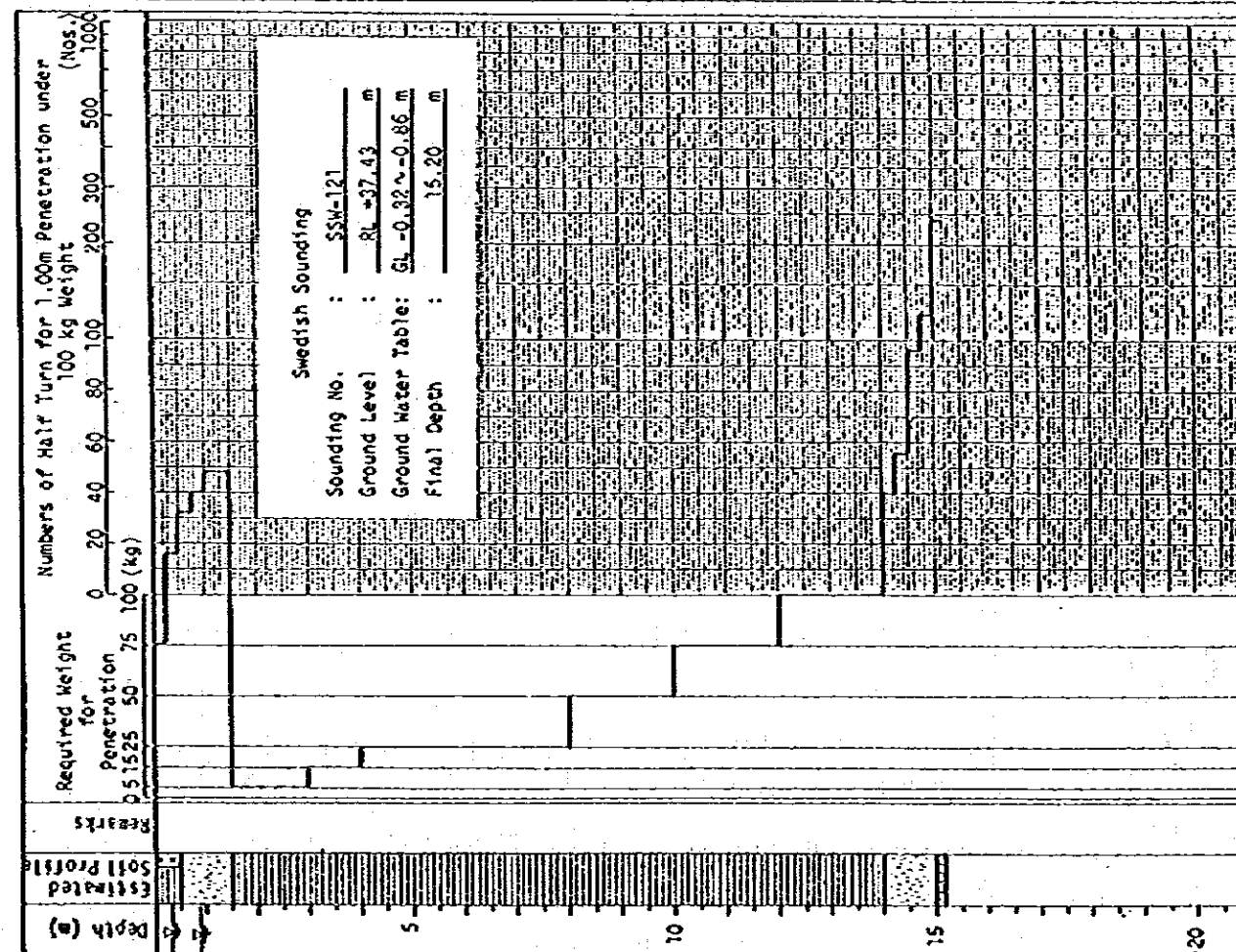
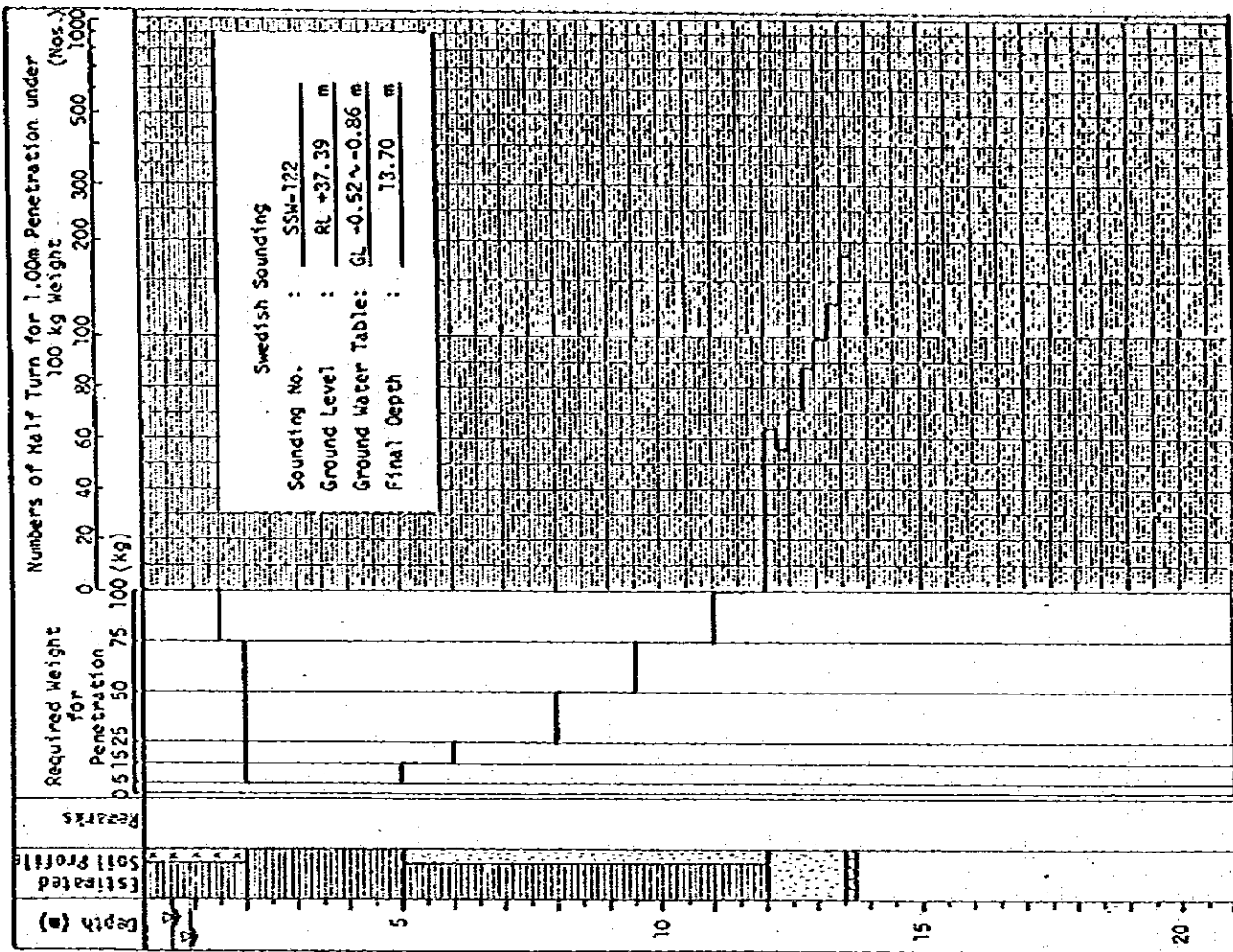


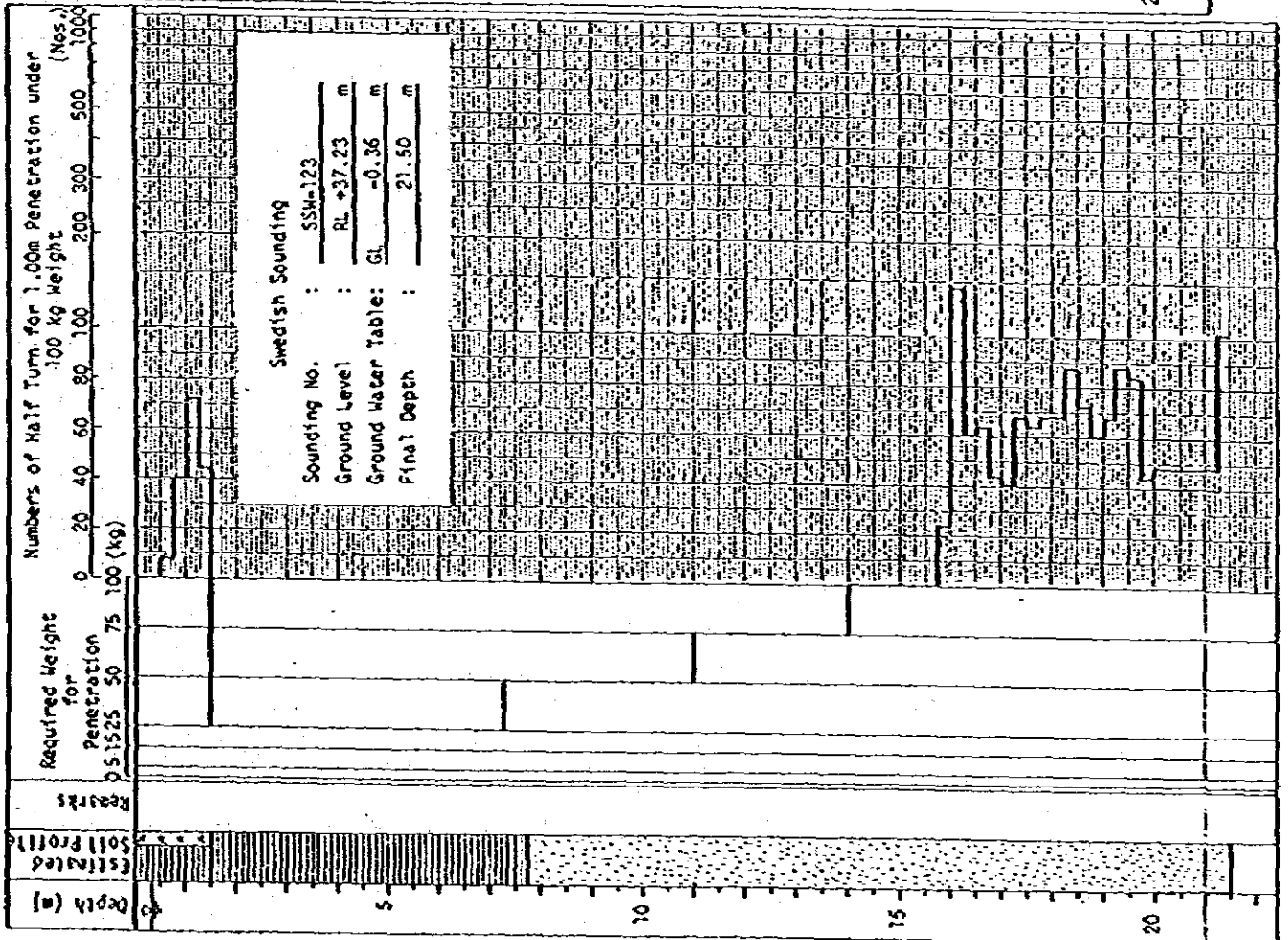
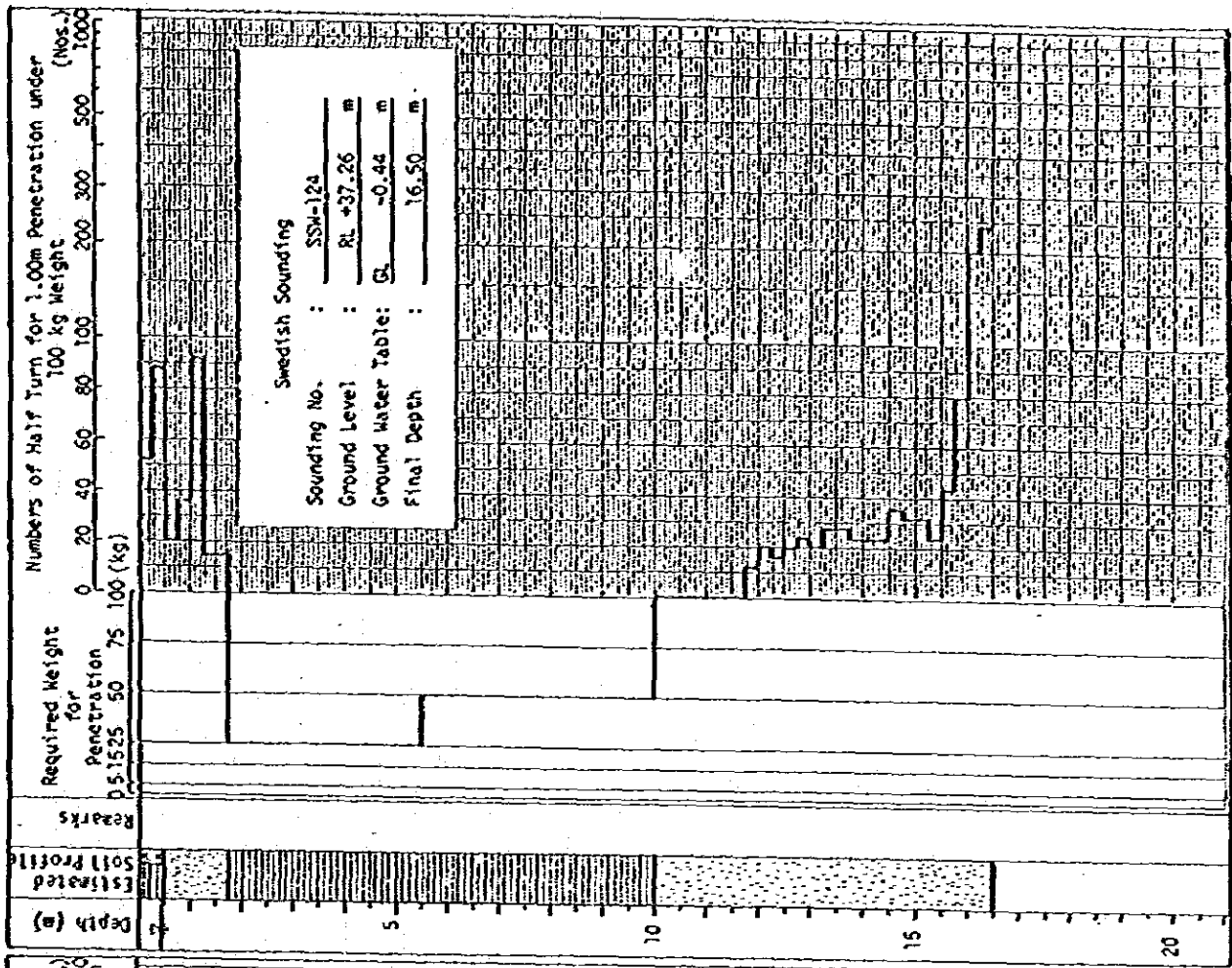


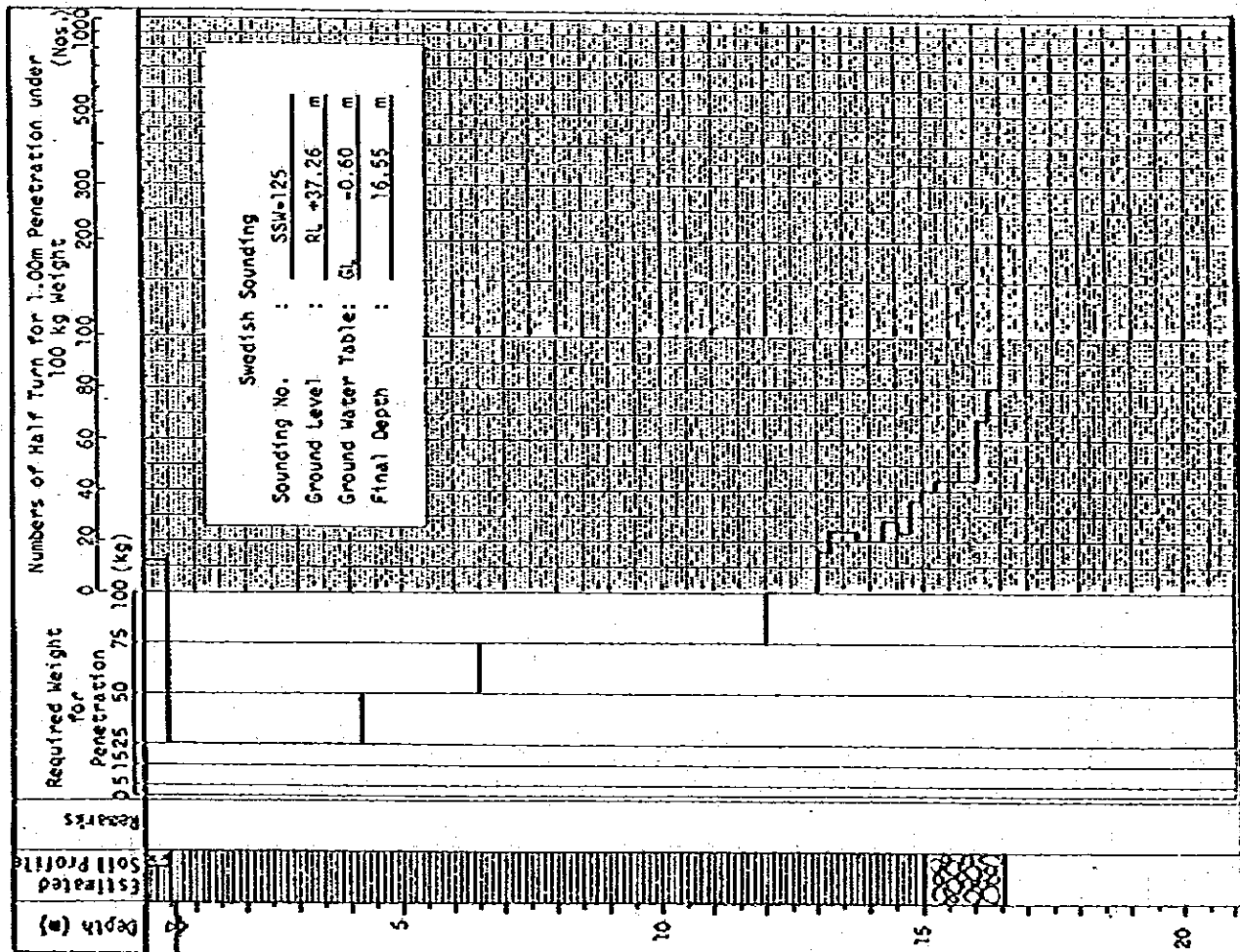


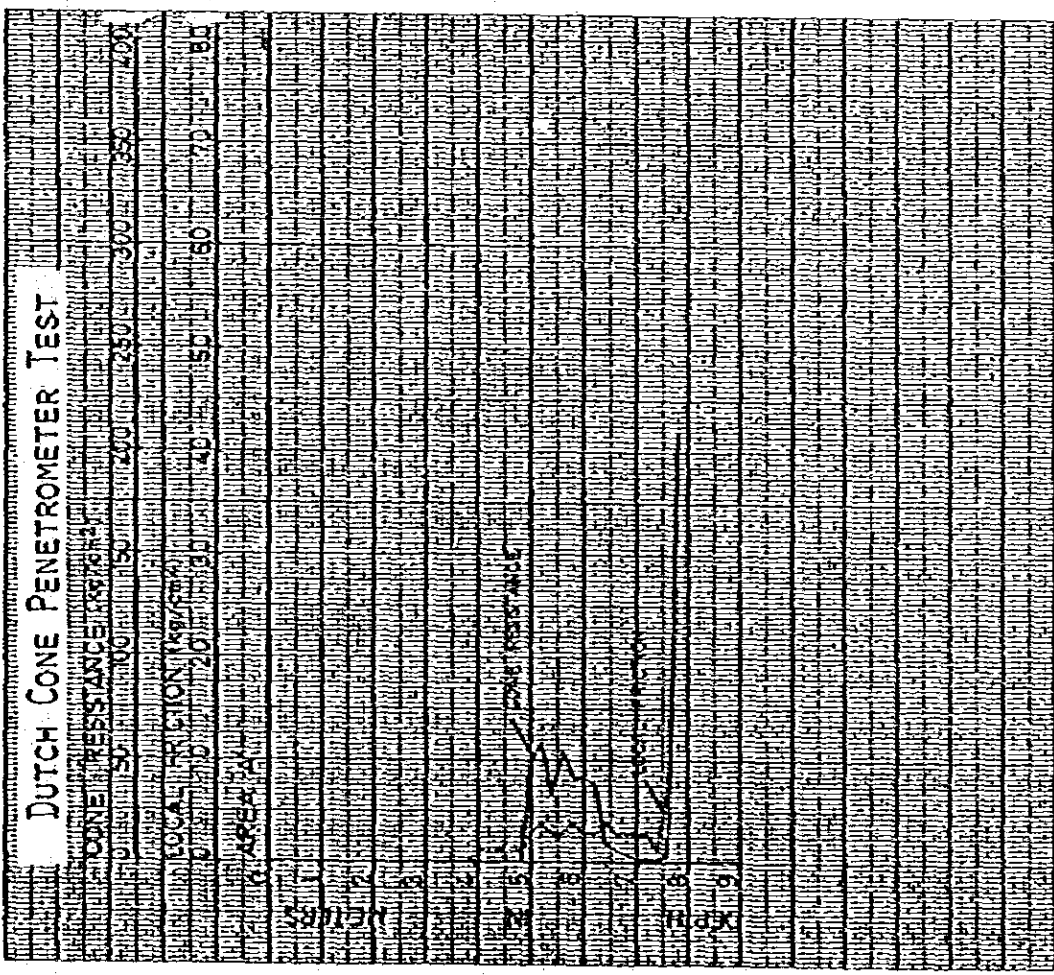
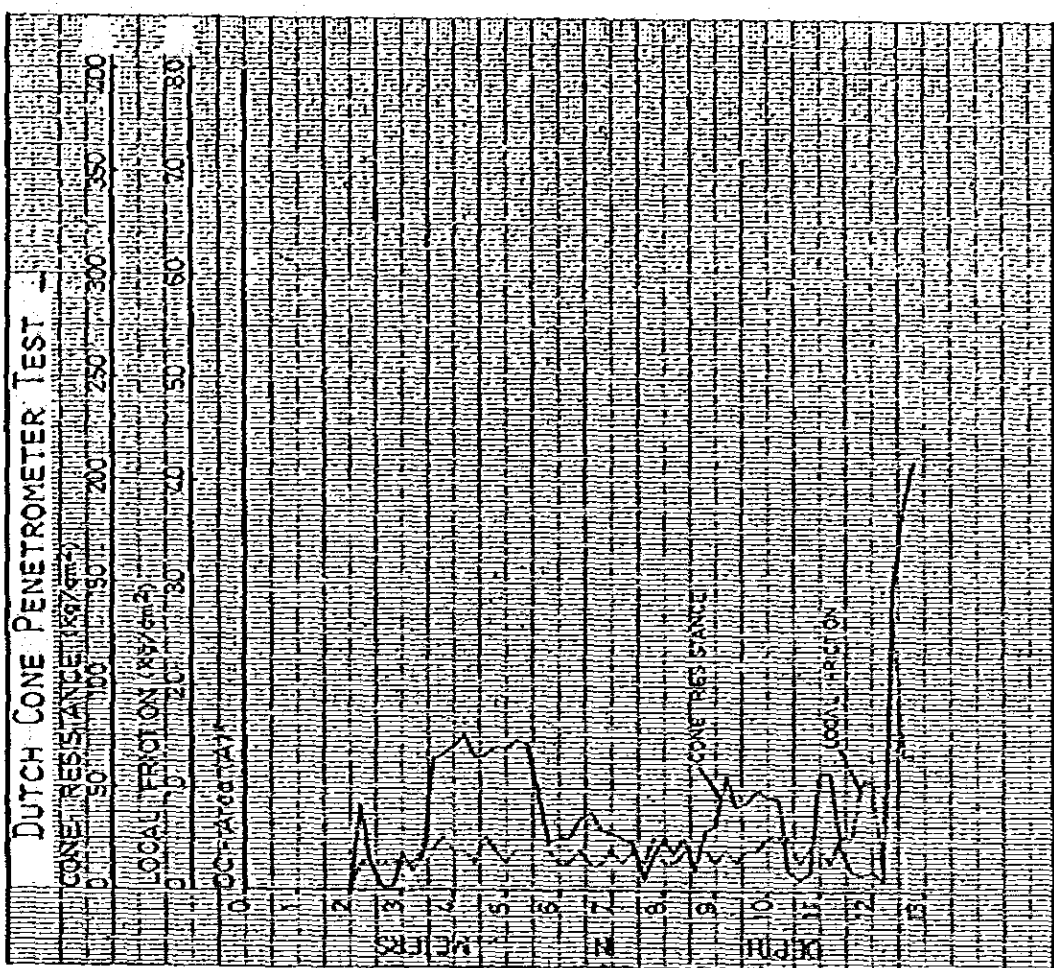




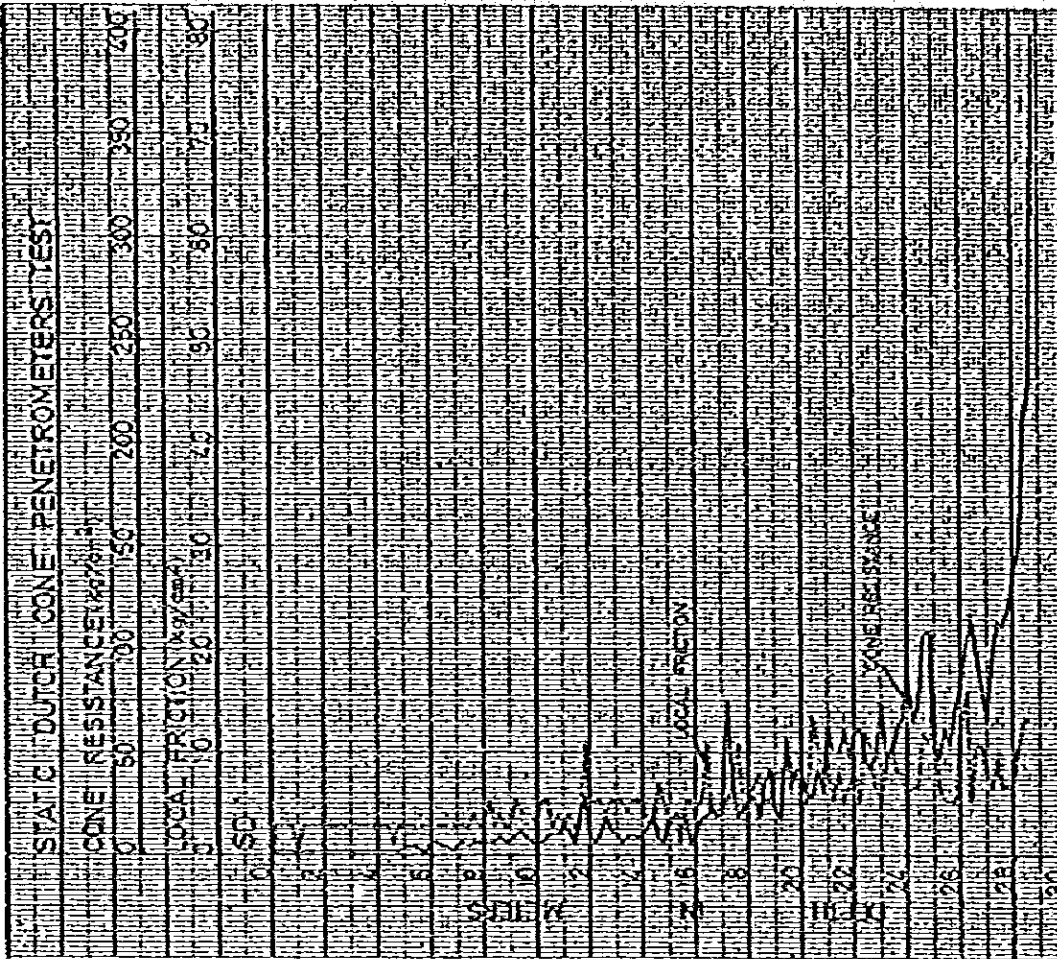
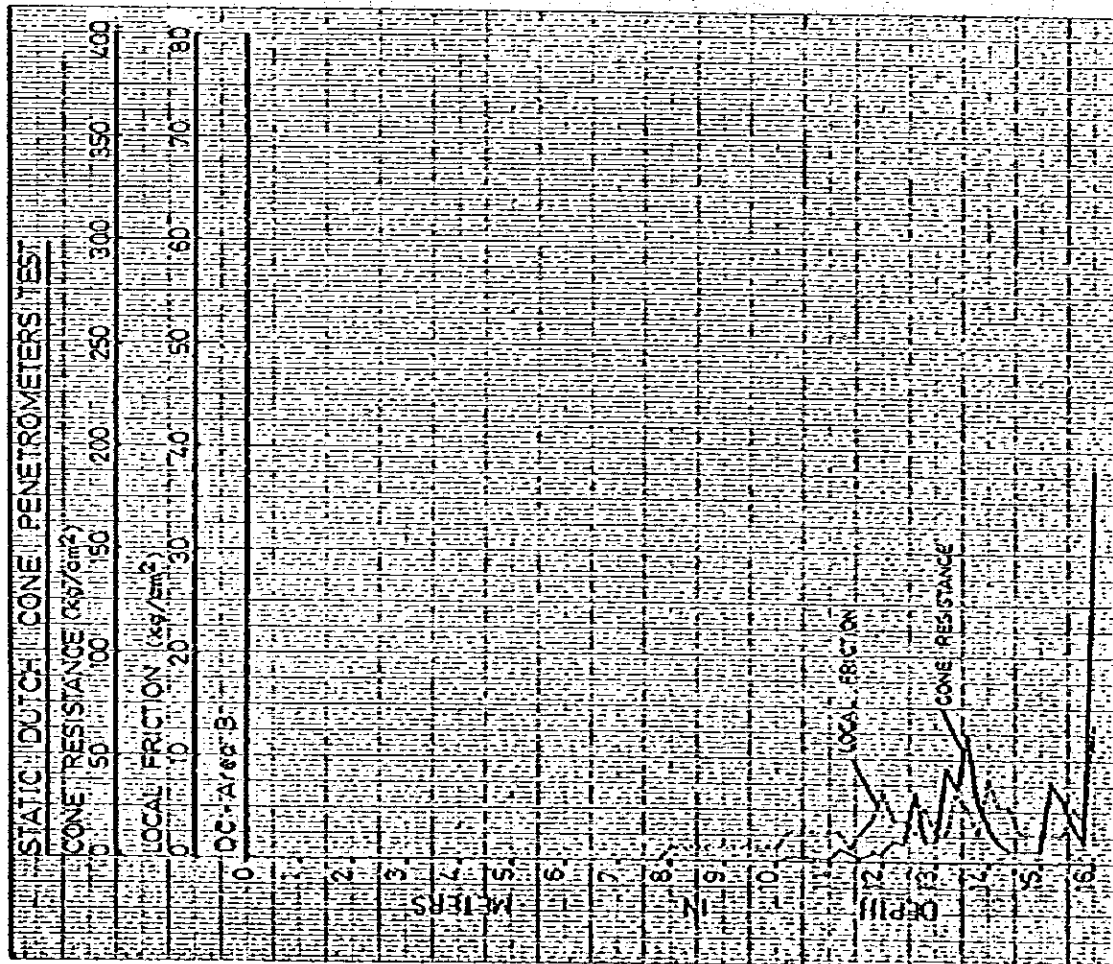




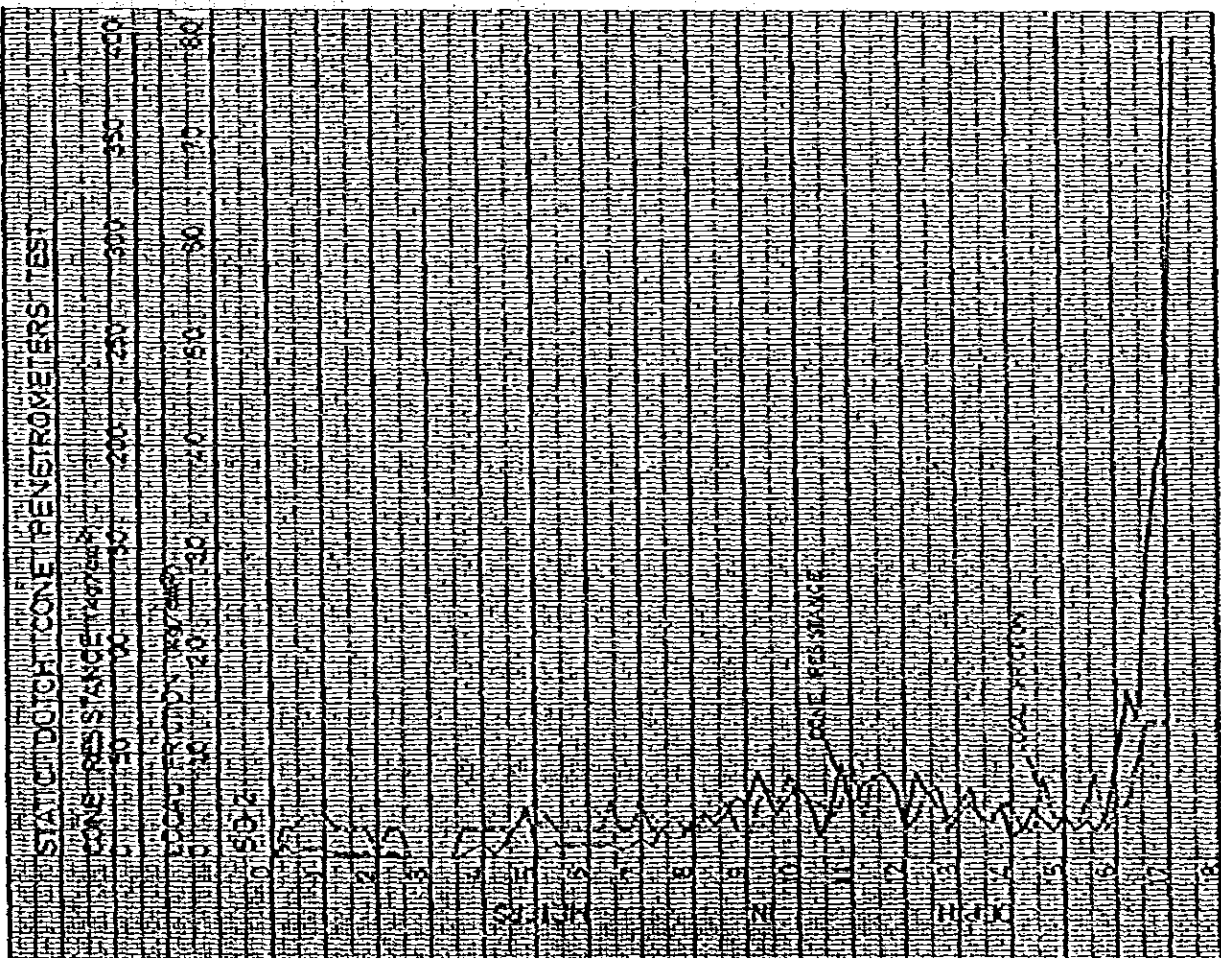




Project : Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Purposes / Phase I at Sentul, Kuala Lumpur



Project : Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Purposes / Phase I at Sencu, Kuala Lumpur



Project : Feasibility Study for the Reclamation Project of
 Ex-Mining Land for Housing Development and Other
 Purposes / Phase I at Sentul, Kuala Lumpur

