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Pandan, Kuala Lumpur - MJ/003/80/

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# E.2 Results of Field Ground Investigation

		Page
	Details of Field Ground Investigation Performed	
2.	Microgravity Survey	. Е-32
3.	Blectrical Survey	
4.	Mackintosh Probe Test	
<b>5.</b>	Dynamic Cone Test	
6.		
7.	Summary of Swedish Sounding Carried Out at the Test Embankment Area	
8.	Swedish Sounding	в-52
9.	Dutch Cone Penetrometer Test	в-65
10.	Pore Pressure Sounding	Е-75
11.		Е-77
12.		E-90
13.	이용 회사 선통임을 되는 토심을 중요로 붙여하는 그리트 회장에 있는 기계 모든 기업이 되었다.	E-100
14.		в-105
15.		E-112

Details of Field Ground Investigation Performed (1)
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	Geophys 1c	Geophysical Survey	the second second				S	Soundings						2
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	Electri - cal Sounding	· • · · · · · · · · · · · · · · · · · ·	rest No./ cation	Sound- ing Depth (m)	Test No./ Loca- tion	Sound- 1ng Depth (m)	Loca- tion	Test No.	Sound- trog (m)	Refer to	Sub- Area	Test Loca- tion	Sound- ing Depth (m)	Sampling (Nos.)
os M	-61 SS	12: 10-	A THE WATER	12.8		19.2	Α".	1	2.69	next page.				
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199	25 Lo- cations	121 Lo-	3 Lo-	36.0m	2 Co-	33.4m	2 to- cations	Tes ts	28.47m	96 Lo- cations				
bns J. no	\$ 10- cations	Carlons Floors	\$0-1. \$0-2. \$0-3. \$0-6. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1. \$0-1.	28.8 17.2 18.6 17.4 20.2 12.6 13.8 13.8 13.8										
baog, al											Pond No.1	MS-2 MS-3 MS-3 S-5	ဝိထင်ဝွင့ စုထုတ်ပုံ	ហេហហេស
10001	S.Lo-	9.Lo- cations	16 to-	292.8m	O Lo- catton	<b>0</b>	0 Lo- cation	0 Tests	E O	_ ແລະ - ເວເລ - ເວເລ	7.3	S. Lo- cations	50.6m	33 Nos.
Total	200	130 Co-	19 Lo- cations	328.8m	2 to- cations	33.4m	2 Lo- cations	Tests	28.47m	96 Lo- cations 1179 m		S.Lo- cations	50.6m	33 Nos.

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

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			Sub-section		1			turbed	Standard		Pres-	In-Situ
Ö	Boring		šě	Bor ing	Soil	Rock	Total	Sampl-	Penetra-	Vane	sure-	Perme-
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1	N N	2	જ		(m)	(m)		(Nos)	(Nos)	(Nos)	(Nos)	Test (Nos)
t					10.80	0	10.80	0	11	0	0	1
	١	Pilot Test Area	A <sup>t</sup>		10.03	0	10.03	0	10	0	0	ı
	ļ	34	A"		19.20	0	19.20	0	19	0	0	4
l	i	G S	8		26.00	0	26.00	0	26	0	0	0
Ì.	L		Sub	-Total	66.03	0	66.03	0	66	0	0	6
ļ	Boring			SB-1	13.05	0	13.05	0	13	0	0	0
		Land	, <u>.</u> ,	SB-2	8.70	0	8.70	0	9	0	0	0
	g	न		SB-3	10.52	0	10.52	0	11	0	0	0
1	Percussion	g		SB-4	20.01	0	20.01	0	20	0	0	0
	NO X	Area		SB-5	17.02	0	17.02	0	17	0	0	0
١	ů,			SB-6	36.10	0	36.10	0	36	0	0	0
		Entire		SB-7	10.10	0 ,	10.10	0	10	0	0	0
1		ğ		SB-8	12.03	0	12.03	0	12	0	0	0
١		М		SB-9	16.80	0	16.80	0	17	0	0	0
ı		] .·	Sub	-Total	144.33	0	144.33	0	145	0	0	0
			Tot	al	210.36	0	210.36	0	211	0	0	9
ſ			A'	A	21.25	8.20	29.45	3	7	0	1	0
١		}	^	В	14.15	5.55	19.70	0	0	2	5	0
l		: 1		A	29.00	7.00	36.00	9	14	0	5	0
١	ъ	ಪ	В	8	26.00	7.50	33.50	0	1	11	0	3
ļ	넊	Area	Sul	o-Total	90.40	28.25	118.65	12	22	13	11	3
1	Drilling	13	n	SBH-1*1	18.11	0	18.11	8	10	27	0	0
1		13 0 0	ig i	SBH-2	20.15	0	20.19	8	12	23	0	0
l	Rotary	Palot	ğ	SBH-3 <sup>12</sup>	25.00	0.50	24.50	17	9	36	0	0
ı	Š	2	Embankme	SBH-4*2	23.06	0	23.06	9	7	17	0	0
ļ	:		Test	SBR-5*3	24.20	0	24.20	11	7 .	11	0	0
			Ę	SBH-6*3	26.17	0	26.17	10	31	12	0	0
			Su	b-Total	136.69	0.50	136.19	63	56	126	0	0
			To	tal	227.09	28.75	254.8	75	78	139	11	3
		Gr	and	Total	437.45	28.75	465.20	75	289	139	11	12

Notes: \*1 SBH-1 and SBH-2 were performed before trial embankment.

<sup>\*2</sup> 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 isogems 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 KO and in the S.W. angle of the survey, in DO and EO.

#### 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 dicrease or to an increase of gradients i.e. to a lack or an excess of mass.

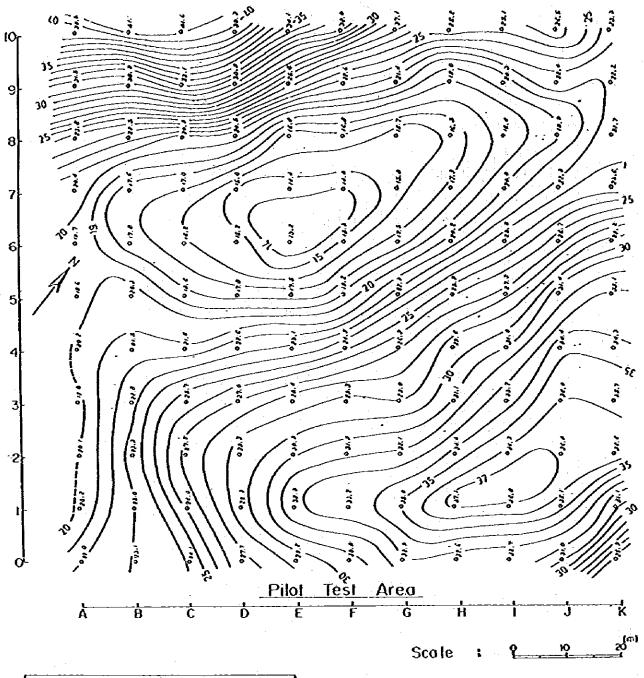
Considering that the sandy argillaceous covering is homogeneous in density, this information completes results obtained previously.

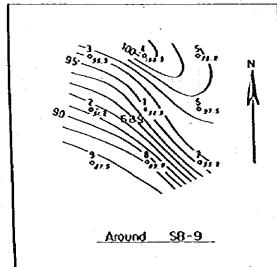
Positive anomalies could define calcareous outcrops to the following gravity stations :

- JO, J1, I1, N1, 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, CO 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.

Fictitions residual values are underlined in the plate 3.





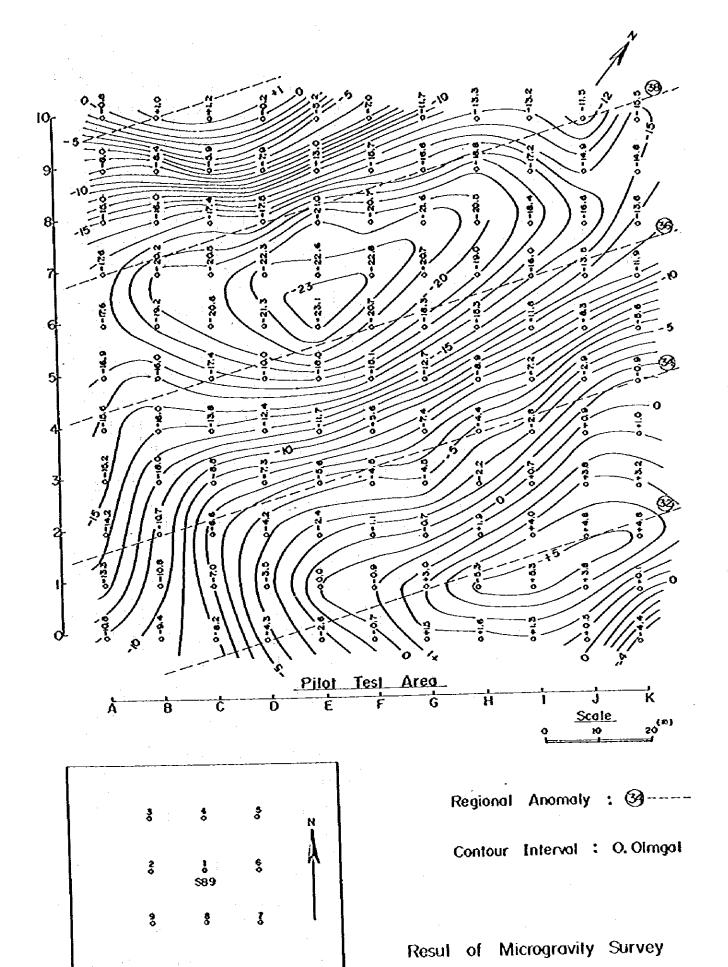
Density: 2.0

Contour interval : O.Olmgal

Result of Microgravity. Survey

- Sentul -

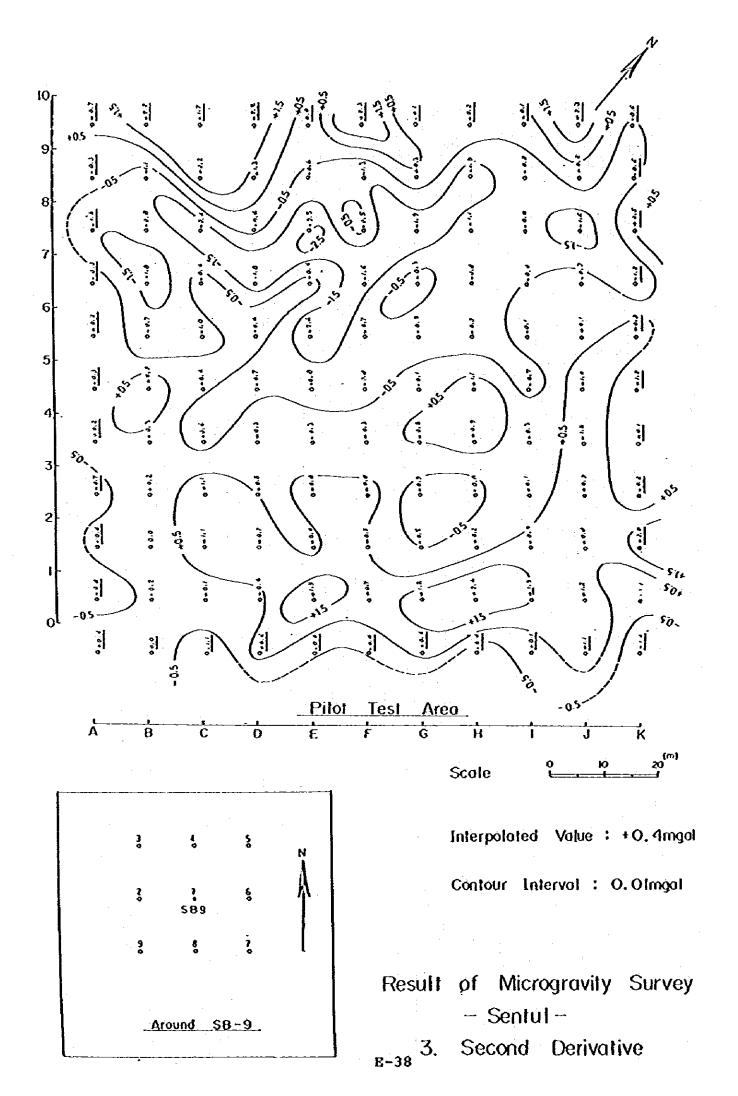
Borguer Anomaly



2. Residual Anomaly

- Sentul -

Around \$8-9



# 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 theorical 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 (PI. 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.

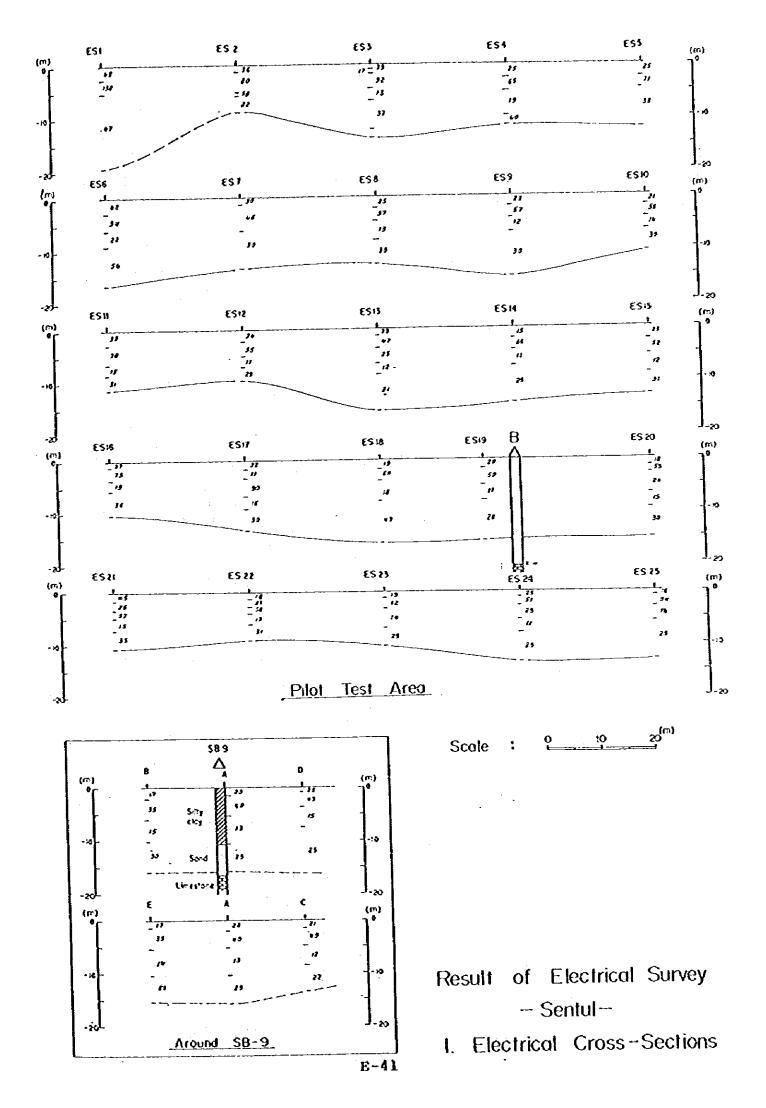
#### Map of apparent resistivities (AB = 140 m) (Plate 7)

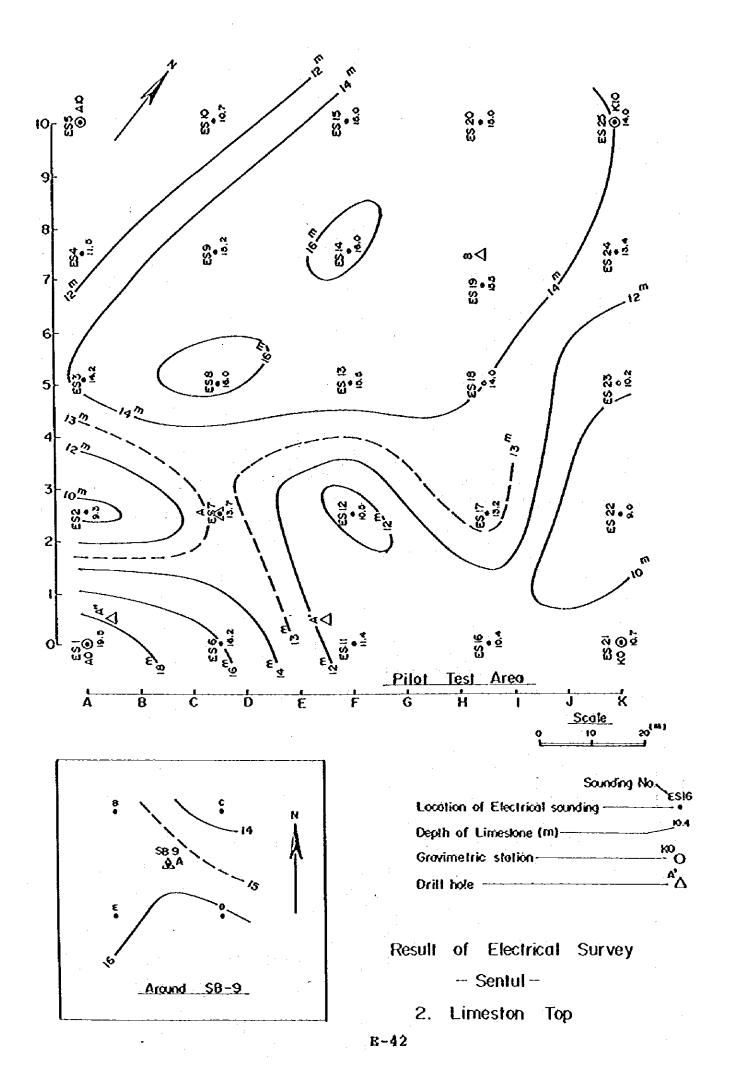
In this case, resistivities principally show depths variations of the calcareous undersoil. But, the influence of the covering resistivities must be also taken into consideration.

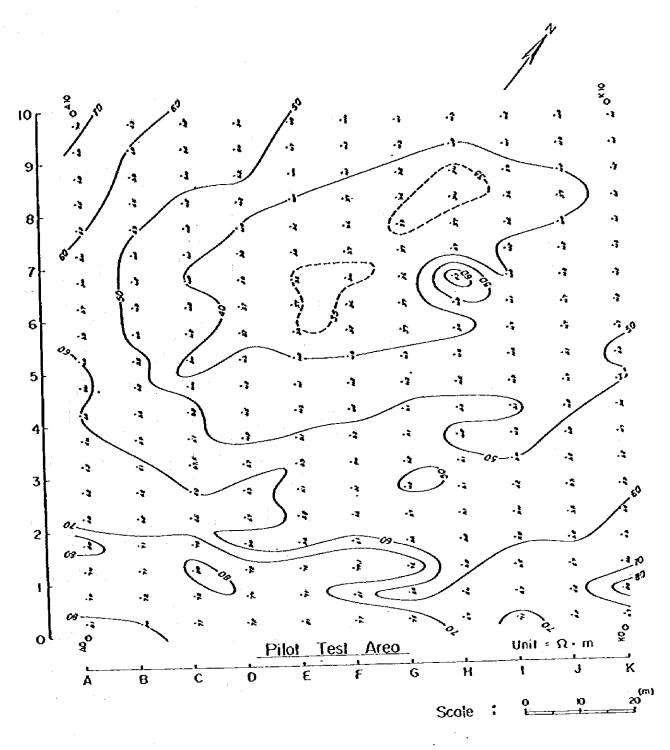
#### The map shows:

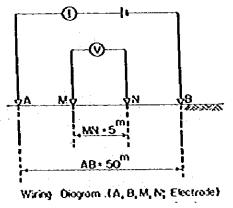
- In the Central part, a low resistivity zone where the conductor is consistent with the residual negative anomaly observed in gravity.
- In the Northern part, the conducting zone is bounded by a gradient of resistivity, showing an important decrease of the covering thickness.
- In the Southern part,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



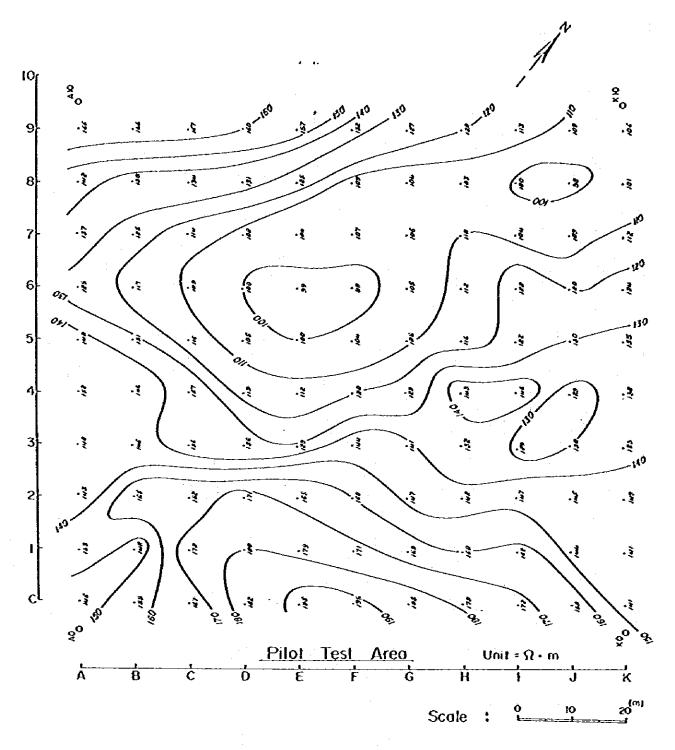


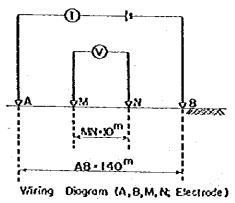




Result of Electrical Survey
— Sentul—

- 3. Resistivity Map (1)
- Apparent Resistivities





Result of Electrical Survey
-Sentul-

4. Resistivity Map (2)

- Apporent Resistivities -

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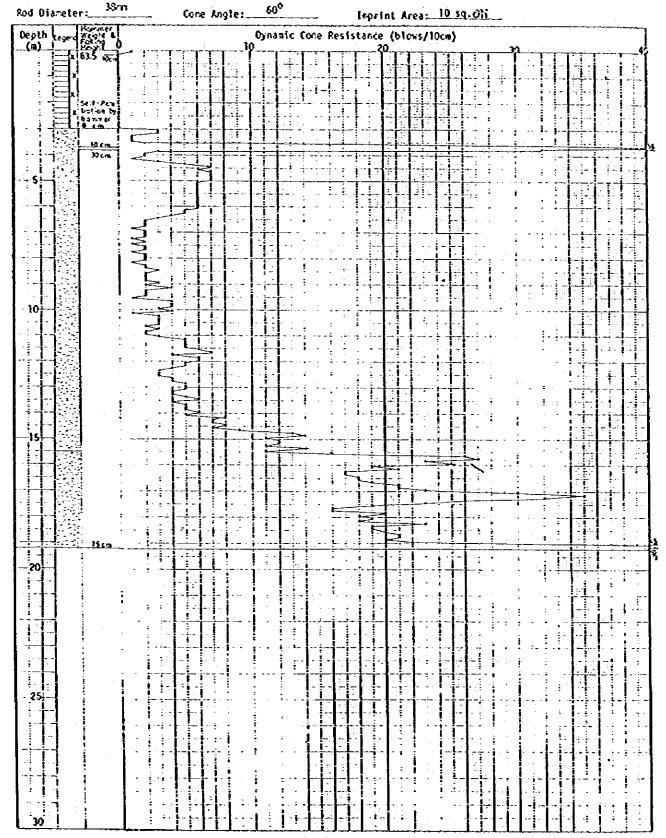
MACKINTOSH PROBE TEST

#### DYNAMIC CONE TEST

Project: feasibility Study for the Reclamation Project of Ex-mining tand for Housing Development and Other Purposes - Phase E

Test No.: A*	Oste: 21.1.80	Depth of Yest 19.2m	Elevation:	Ground Water Table:		
Harmer Weight (kg)		falling Height (cm)		Oepth (m)		
6	3,5	10		0.0 ~ 0.1		
	3.5	Self penetration	by harrier	0.1 ~ 3.0		
6	3.5	10		3.0 ~ 3.7		
	3.5	30		3.7 ~ 3.8		
	3.5	75		3.8 ~ 19.2		

Cone Type



#### DYNAMIC CONE TEST

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

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

Harrier Velght (kg)	Falling Height (cm)	Depth (B)	
63.5	Self penetration by rod	0.0 ~ 6.0	
63.5	Self penetration by harmer	6.0 ~ 8.1	
63.5	10	3.1 ~ 9.1	
63.5	30	9,1 ~ 11.6	
63.5	75	11.6 ~ 14.2	

Core Type

Rod Ólameter: 40.5mm	Cone Angle:	600	mprint Area: 10 sq. cm.		
Depth legen Wight 4  (A) Person 4  (B) Person 4  (C) Person 6  (C) Perso		anic Code Pesist	ance (blows/19cm) 20	30	40
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Summary of Swedish Sounding Carried out at the Pilot Test Area - Sentul -

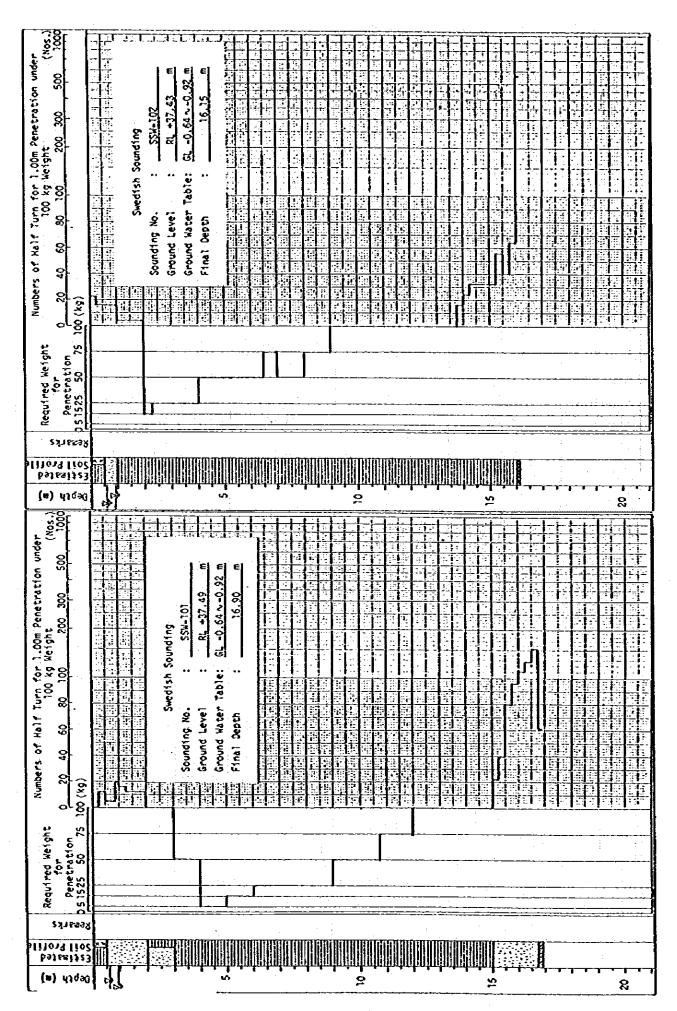
oint No.	Ground Level (RL+m)	Depth of Water (m)	Penetration Depth under 100 kg Weight (m)	Penetration by the Last 10 Nos. of Half Turn (m)	Sounding Depth (m)	Materials at The final Depti
85	36.469	0.02	5.34			
86	36.387	0.07		0.08	5.52	Sand
87	36.317	0.15	5.45	0.46	5.91	Sand
B8	36,347	0.13	9.78 8.07	0.08	9.86	Sand
89	36.299	0.15		0.32	8.39	Şand
čś			8.44	0.31	8.75	Sand
Č6	36.430	0.30	5.43	0.28	5.71	Sand
C7	36.338 36.338	0.90	11.11	0.12	11.63	
č8		0.10	12.69	0.32	13.01	Sand
C9	36.317 36.366	0.19	12.55	0.13	12.68	Sand
		0.12	8.26	0.05	8.31	
C10	36.347	0.08	7.31	0.02	7.51	Limestone?
D\$	36.427	0.08	15.40	0.04	15.44	51=6510,101
D6 🛊	36.350	0.13	11.49	0.46	11.95	Sand
07	36.332	0.19	14.36	0.07	14.43	38119
D8 j	36.317	0.15	15.33	0.09	15.42	
D8.5 Ì	-	0.17	7.44	0.03	7.47	
D9	36.369	0.07	7.87	0.01		• • • • • • • • • •
010	36.427	0.11	6.88		7.88	Limestone?
86	36.378	0.50	15.20	0.01	6.89	Limestone?
210	36.457	0.10	10.70	0.19	15.39	
		1	ì	0.01	10.71	Limestone?
K10	36.536	0.10	9.00	0.09	9.09	1
K8	36.399	0.10	8.35	0.14	8.49	
K6	36.436	0	8.22	0.20	3.42	
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	•
810	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		
87	36.366	0.10	15.44	0.03	12.16	
ı		1	13.13	1 4.43	15.47	
£9	36.357	0.15	15.49	0.22	15.71	- 1
J5	36.448	0.05	10.32	0.09	10.41	!
J10	36.443	0.10	12.73	0.06	12.79	į.
H12	_	0.10	12.24	0.05	12.29	
£12	_	0.15	9.23	0.10	9.33	i e
J6	36.460	0.05	8.15	0.16	8.31	ļ
RS I	36.521	0.10	7.80	1 223	7.80	1
J4	36.454	0.10	8.89		8.89	
Ι4	36.485	0.10	7.48			İ
H4	36.457	0.10	8.78		7.48	<u>'</u>
		l .		1 -	8.78	1
G4	36.418	0.10	8.61	1 -	8.61	i
F4	36.408	0.10	7.66	-	7.66	ī
€4	36.393	0.10	9.23	-	9.23	
25	36.399	0.10	11.97	<u>-</u>	11.97	
£5 [	36.369	0.10	12.34	-	12.34	!
G5	36.396	0.10	11.27	i -	11.27	
85	36.408	0.10	11.38	_	11.38	
<b>1</b> 5	36.433	0.10	3.05		9.05	1
J8	36.360	0.10	11.02	i -	11.02	
tll	-	0.10	12.65	_	12.65	
tió	76 474	1	· ·	1		
19	36.424	0.10	11.78	1 -	11.78	1
	36.369	0.10	12.23	-	12.23	1
[7	36.384	0.10	10.61	-	10.61	
a7	36.332	0.10	10.45	_	10.45	
H9.	36.366	0.10	14.58	-	14.58	<b>!</b> .
811		0.10	10.78	1 -	10.78	}
GLO	36.375	0.10	13.67	1 -	13.67	1
G9	36.341	0.10	12.61	-	12.61	
G8	36.305	0.10	14.48	l -	14.48	Ī
G7	36.338	0.10	11.20	-	11.20	l
G6	36.399	0.10	11.77			l .
E12	30.373			_	11.77	Į.
E10	36.418	0.10	7.60	I	7.60	l .
		0.10	9.00	B -	9.00	· ·
E8	36.353	0.10	14.25	<u>-</u>	14.25	
E7	36.369	0.10	13.25	-	13.25	
E9	36.363	0.10	12.72	<u> </u>	12.72	ĺ
K11		0.10	10.80	-	10.80	
K9	36.347	0.10	10.82	-	10.82	
	36.430	0.10	8.93	-	8.93	I .
K7				-		
F6	36.262	0.10	11.80	-	11.80	·
	36.262 36.341	0.10	11.80 14.40	-	11.80 14.40	

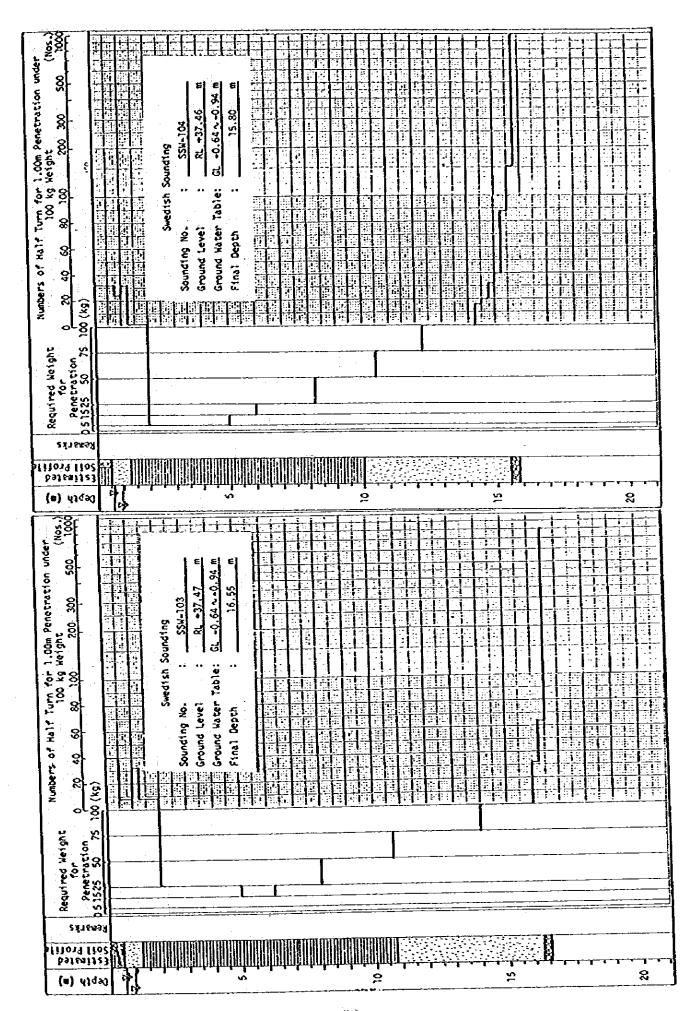
Summary of Swedish Sounding Carried out at the Test Embankment Area

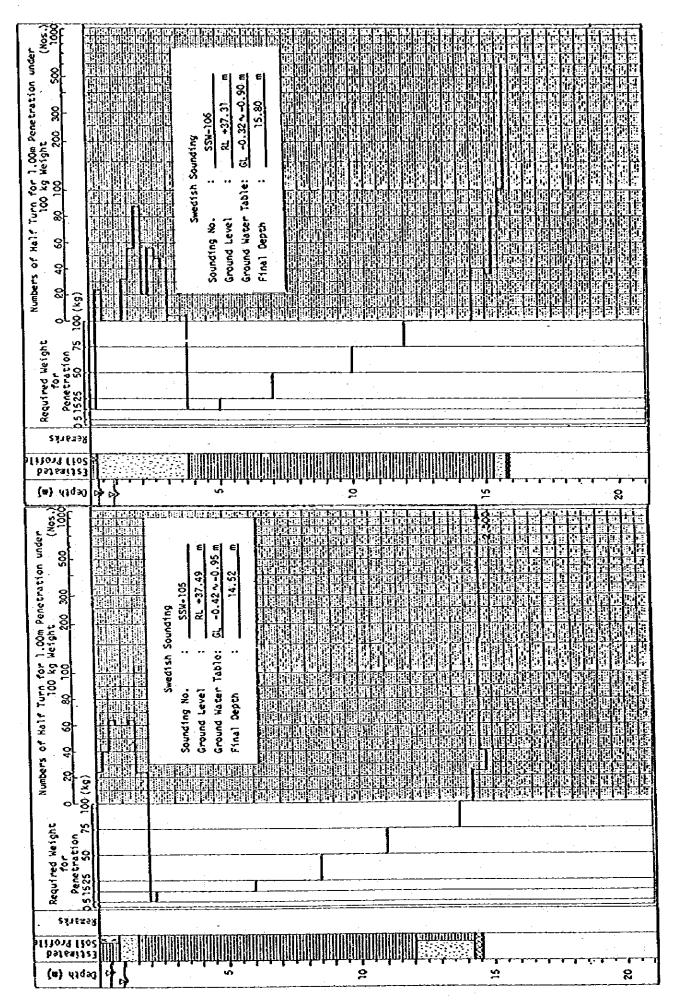
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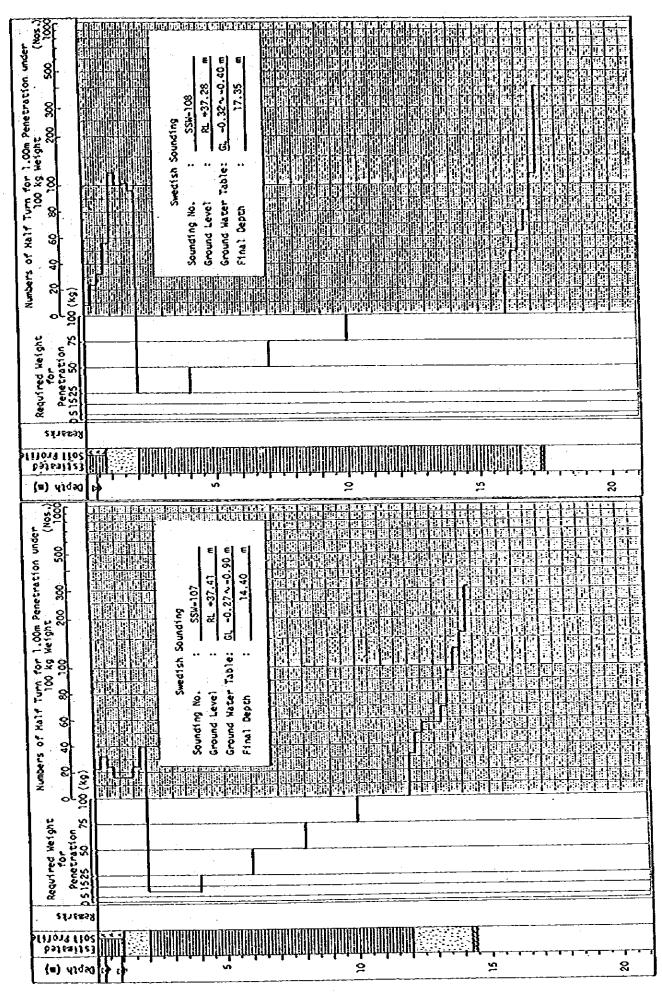
Swedish Sounding No.	Ground Level (RL + m)	Water Table* (GL + m)	Water Table (16/1/81) (GL <u>+</u> m)	Sounding Depth (m)	Remarks
SSH-101	37.49	-0.92	-0.64	16.90	
SSW-102	37.43	-0.92	-0.64	16.15	
SSH-103	37.47	-0.94	-0.64	16.55	
SSK-104	37.46	-0.94	-0.64	15.80	
SSH-105	37.49	-0.95	-0.42	14.52	
SSW-106	37,31	-0.90	-0.32	15.80	
SSN-107	37.41	-0.90	-0.27	14.40	
SSN-108	37.28	-0.40	-0.32	17.35	
SSH-109	37.23	-0.40	-0.36	15.60	Sand Drain
SSW-110	37.23	+0.10	-0.30	18.85	Area
SSN-111	37.39	+0.06	-0.42	17.70	
SSH-112	37.32	+0.04	-0.25	15.50	P
SSH-113	37.42	-0.96	-0.56	16.70	
SSX-114	37.67	-0.96	-0.49	16.15	
SSW-115	37.43	-0.86	-0.60	16.90	
SSH-116	37.43	~0.44	-0.35	15.75	
SSH-117	37.41	-0.40	-0.45	15.70	Sand Drain Area
SSW-118	37.39	-0.40	-0.45	18.40	Alea
SSH-119	37.50	-0.40	-0.32	16.40	<b>)</b>
SSH-120	37.44	-0.86	-0.40	14.90	
SSH-121	37.43	-0.86	-0.32	15.20	1
SSW-122	37.39	-0.86	-0.52	13.70	
SSH-123	37.23	-0.36	-0.36	21.50	1
SSN-124	37.26	-0.44	-0.44	16.50	
S\$W-125	37.26	-0.60	-0.60	16.55	
Total	25 locations	-	-	409.47	

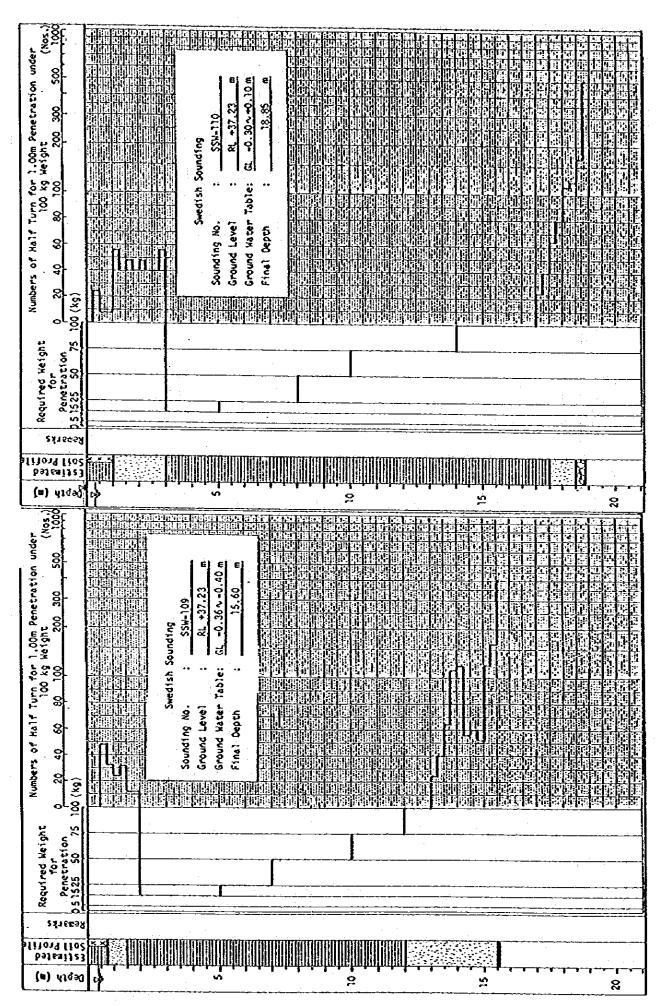
<sup>\*</sup> At the time at which Swedish Sounding was performed.

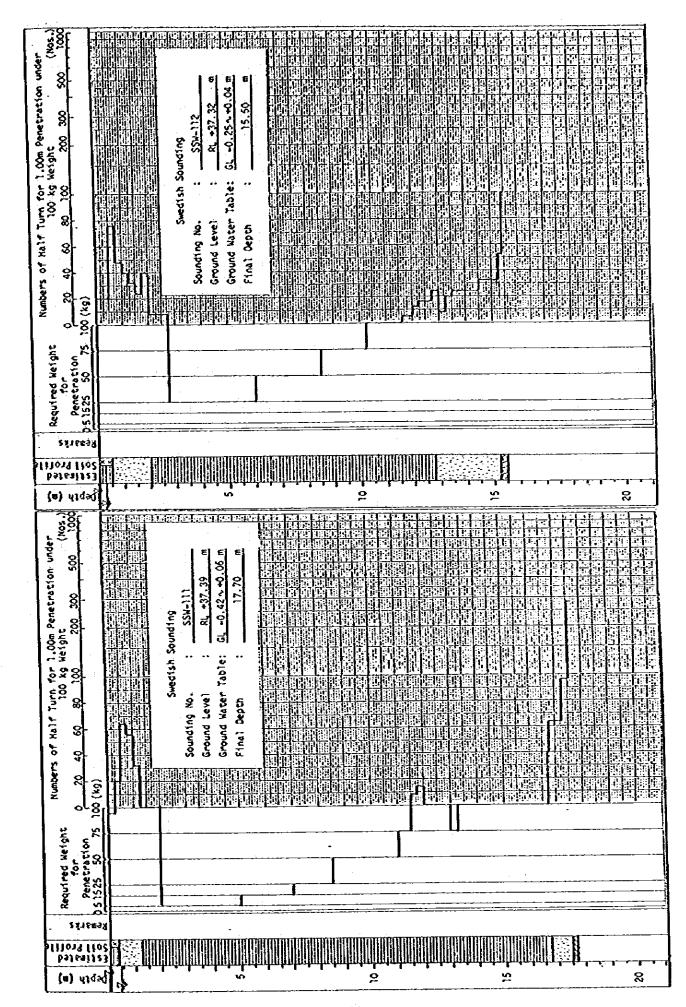


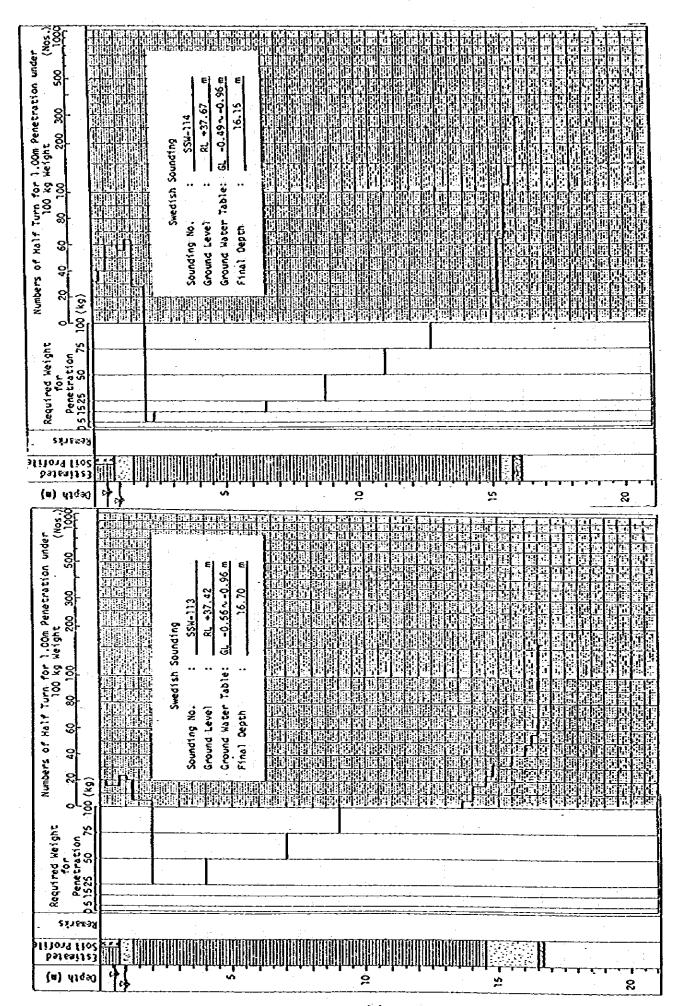


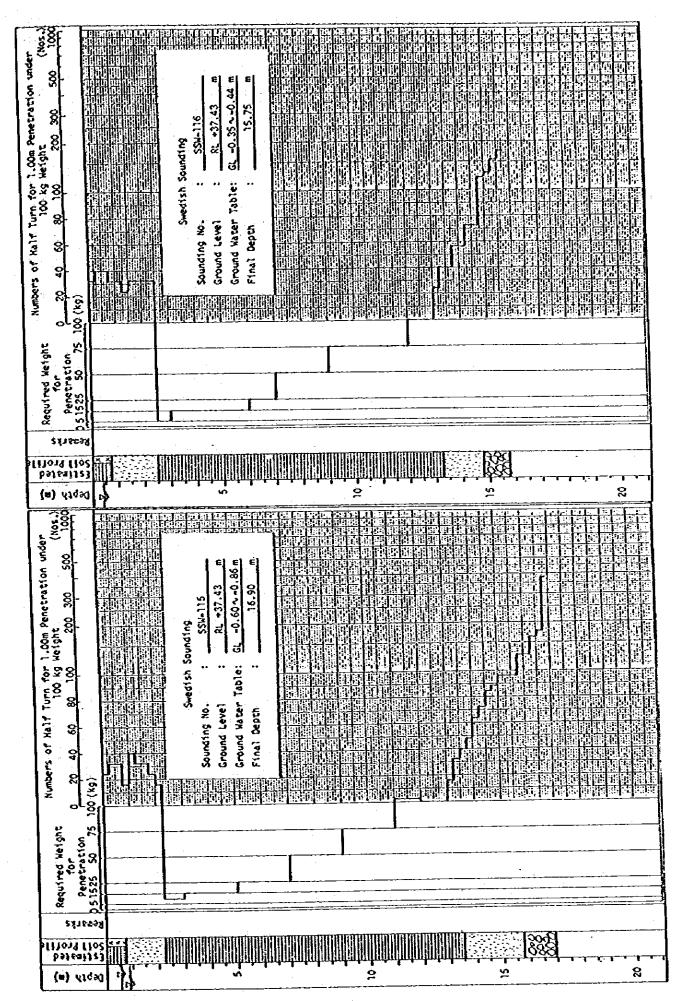


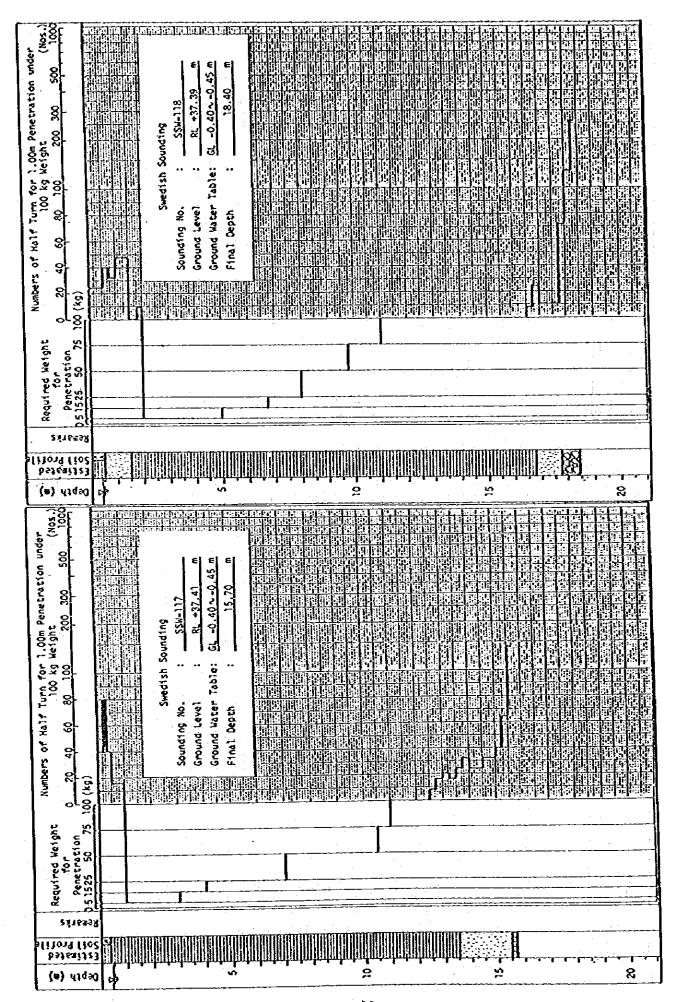


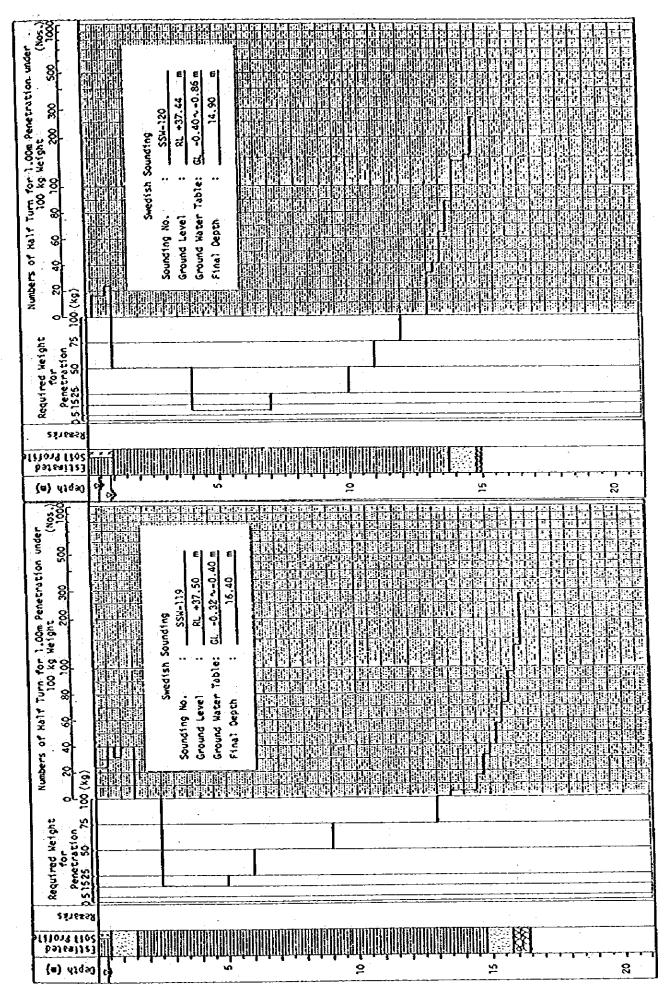




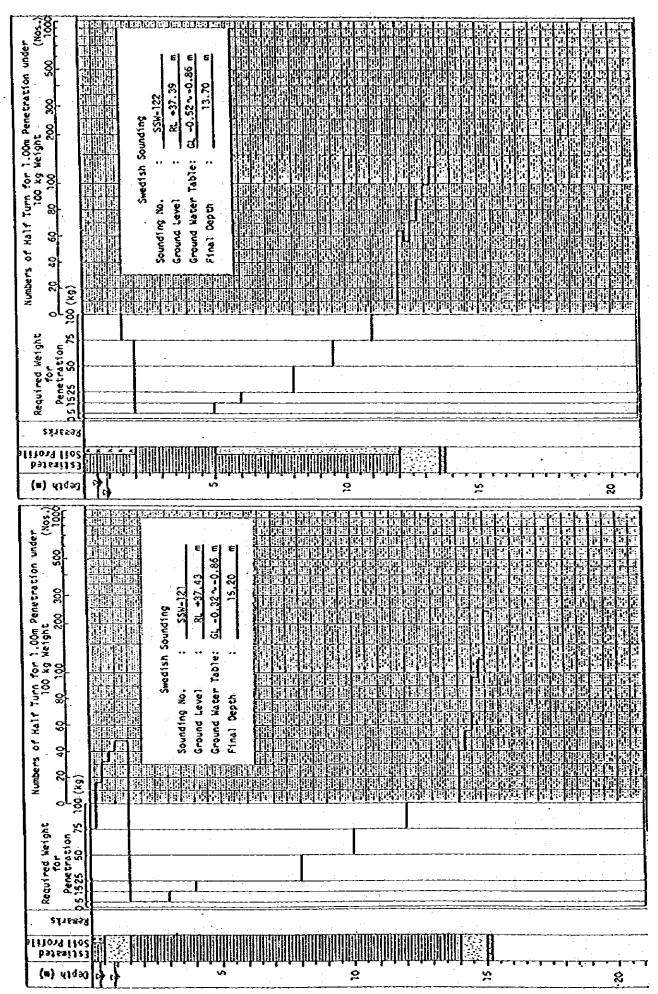


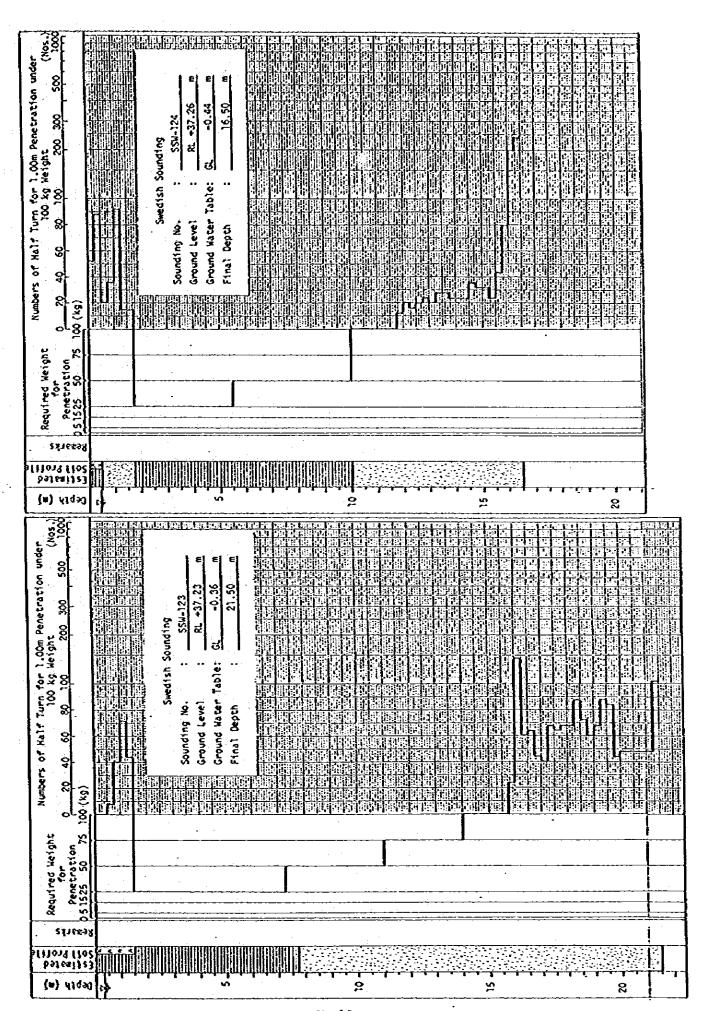


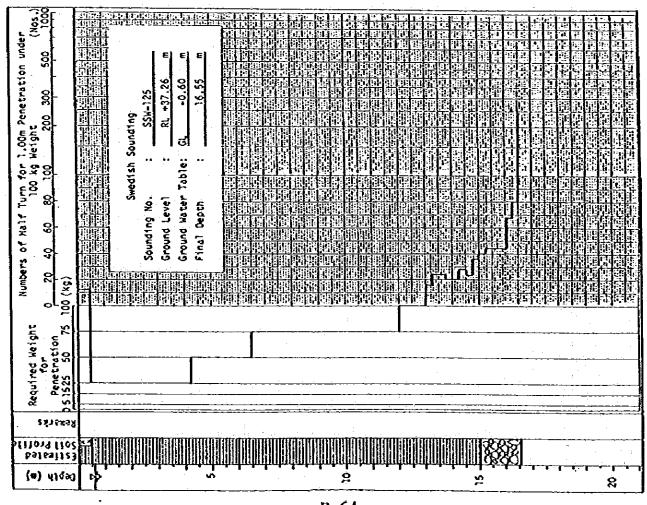


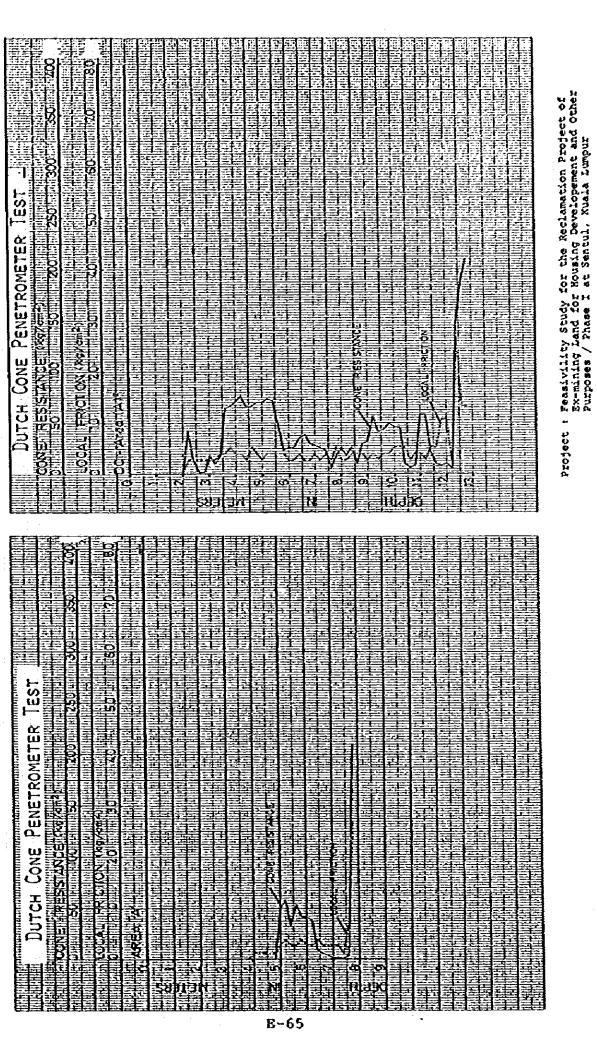


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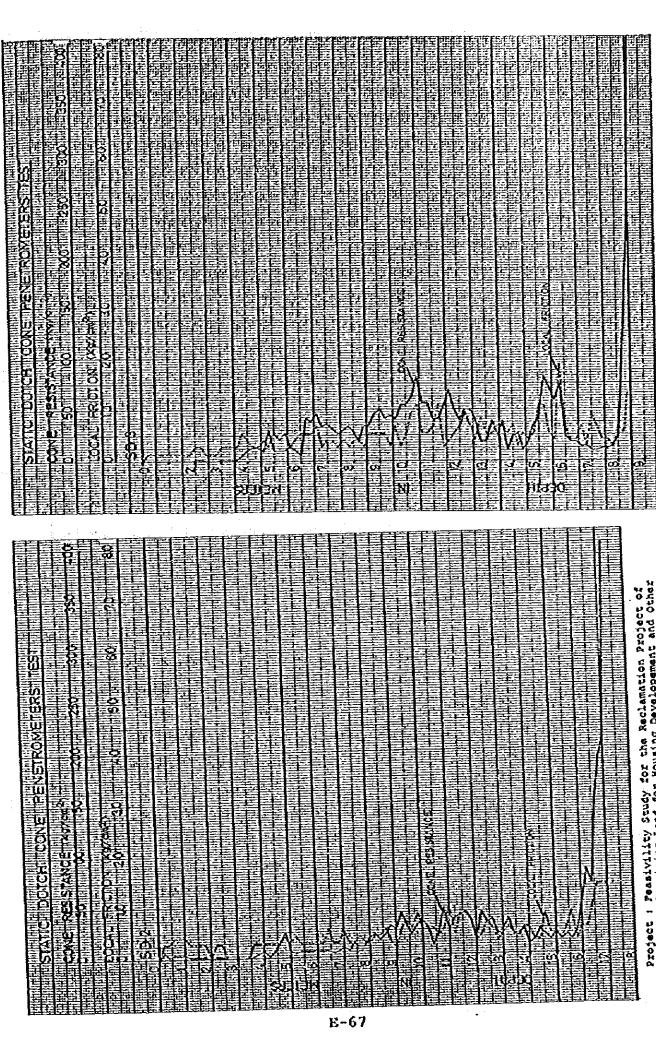


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유럽 그는 다리 다리 다른 도로 다리 그리다 그는 다리 또는 다고 목록 든 다 만든 다리 살았다고 나를
[출시 문호 서는 호등] 근로 크리 교통 급입 등로 그리고 되었다면 하고 모임 등로 가고 되었다면 하는데 그리고 되었다면 하는데 되었다면 되었다면 하는데 되었다면 하는데 되었다면 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면
급셨다고 있는 많이 된 때 등 등 환경 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등
· 즐거움도 집 등록 중국 등을 열금 대로 도입을 회 등로 등로 등로 등로 등로 급급 (RE)
즘게 마사를 즐겁게 도로 도로 프로프로 프로트로 프로그램 및 TRE NET NET 등록 드
유교도프로프로프로 프로트프로스 함께 즐겁는 프로프로프로 프로 프로프로프로 플루트를

Project: Feesibility Study for the Reclamation Project of Ex-mining Land for Housing Developement and Other Purposes / Phase I at Sentul, Yuala Lumpur

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