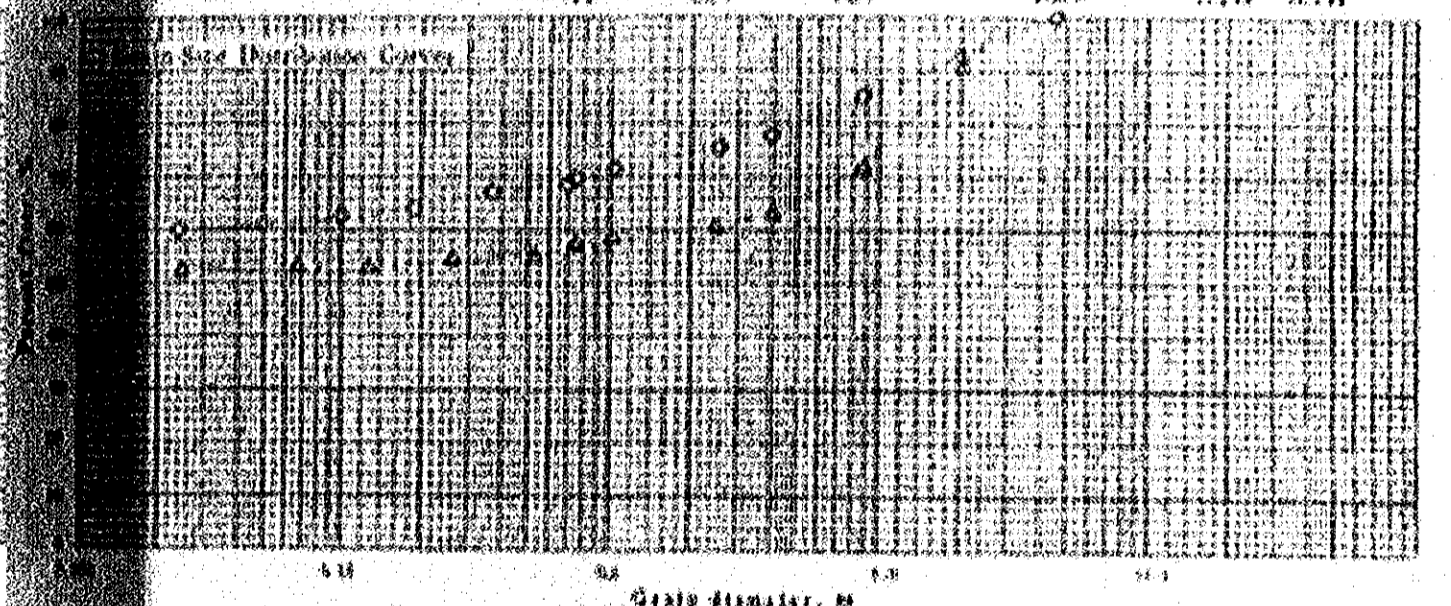


GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Development Project of the Industrial Port,

Location of Project: off shore Boring No. No. 8
 Date of Testing: B D

Depth: No. <u>SS - 4</u>	Specific Gravity: <u>2.65</u>										
100	141	154	181	252	138	200	241	242	275	313	307
100% 100%											

Depth: No. <u>SS - 5</u>	Specific Gravity: <u>2.65</u>										
100	141	154	181	252	138	200	241	242	275	313	307
100% 100%											



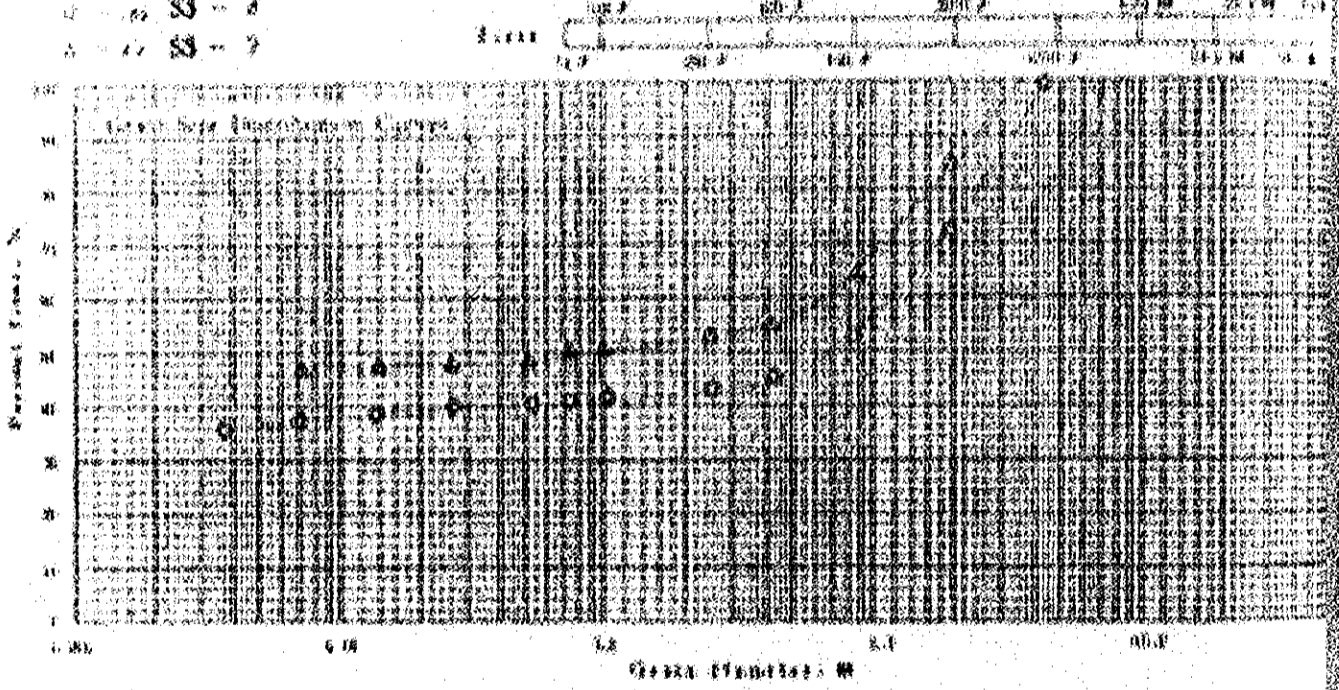
Sieve	SS - 4	SS - 5	SS - 6	SS - 7
75	100	100	100	100
60	100	100	100	100
45	100	100	100	100
30	100	100	100	100
15	100	100	100	100
7.5	100	100	100	100
4.75	100	100	100	100
2.5	100	100	100	100
1.5	100	100	100	100
0.75	100	100	100	100

Depth No., Depth	No. <u>SS - 4</u>	No. <u>SS - 5</u>	Depth No., Depth	No. <u>SS - 6</u>	No. <u>SS - 7</u>
100	100	100	100	100	100
75	100	100	75	100	100
60	100	100	60	100	100
45	100	100	45	100	100
30	100	100	30	100	100
15	100	100	15	100	100
7.5	100	100	7.5	100	100
4.75	100	100	4.75	100	100
2.5	100	100	2.5	100	100
1.5	100	100	1.5	100	100
0.75	100	100	0.75	100	100

THE NATURAL CONDITIONS SURVEY ON THE
DEVELOPMENT PROJECT OF THE INDUSTRIAL PORT,

off shore No 8
S. D.

Sample No.	Depth (No.)	SS - 6	SS - 7	SS - 8	SS - 9	SS - 10	SS - 11	SS - 12	SS - 13	SS - 14	SS - 15
1	0-100										
2	100-200										
3	200-300										
4	300-400										
5	400-500										
6	500-600										
7	600-700										
8	700-800										
9	800-900										
10	900-1000										



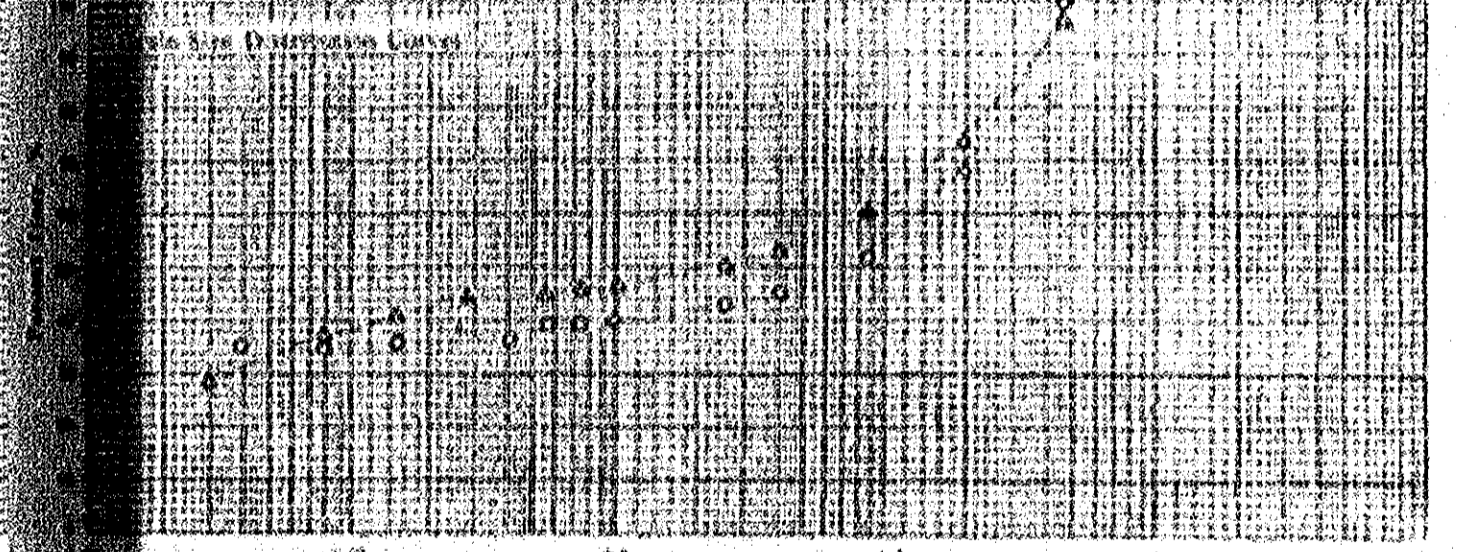
Sample No.	Depth	SS - 6	SS - 7	SS - 8	SS - 9
1	0-100				
2	100-200				
3	200-300				
4	300-400				
5	400-500				
6	500-600				
7	600-700				
8	700-800				
9	800-900				
10	900-1000				

GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Development Project of the Industrial Port.

Location of Project: **off shore** Notice No. **No 8**

Drawn by: **B. D.** Date of Testing:

Sample No.	Depth : No.	No. 8 Specific Gravities									
		SS - 10	SS - 20	SS - 40	SS - 60	SS - 80	SS - 100	SS - 200	SS - 400	SS - 600	SS - 840
508	SS - 10	21.1	67.6	21.2	41.9	22.2	26.1	28.1	28.1	28.1	28.1
509	SS - 12	21.1	67.6	21.2	41.9	22.2	26.1	28.1	28.1	28.1	28.1

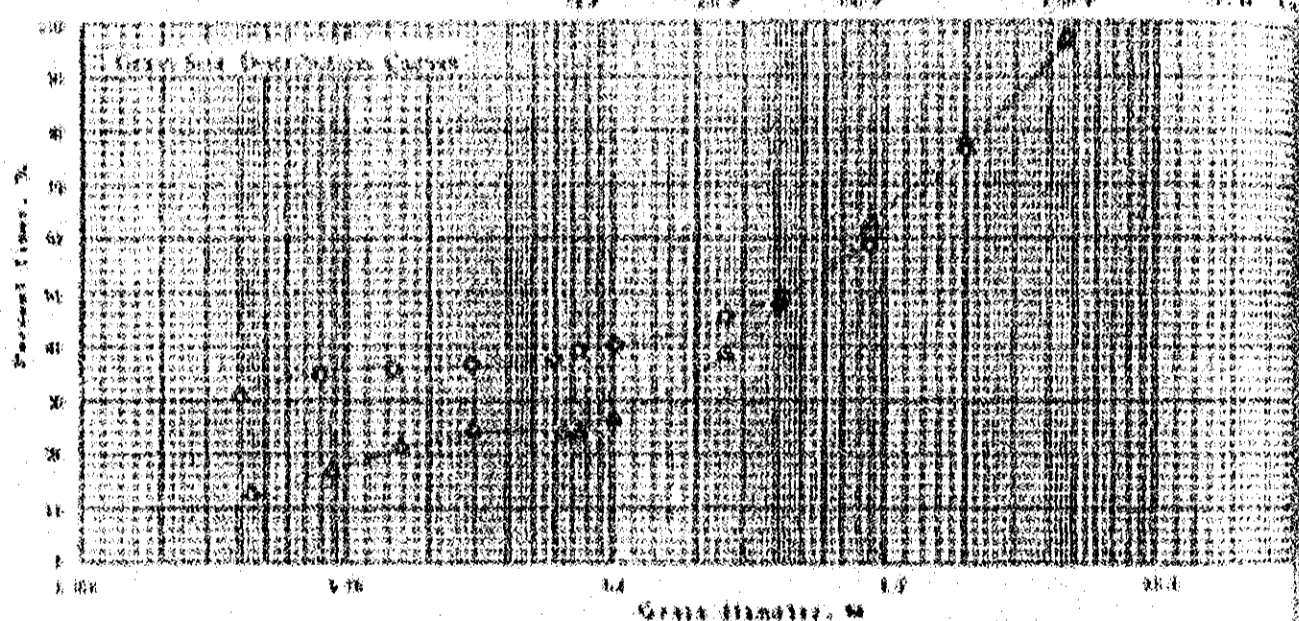


Sample No.	Depth	No. 8		Sample No.	Depth	No. 8	
		SS - 10	SS - 20			SS - 10	SS - 20
508	11.0m	21.1	67.6	509	11.0m	21.1	67.6
509	11.7m	21.1	67.6	510	11.7m	21.1	67.6
510	12.4m	21.1	67.6	511	12.4m	21.1	67.6
511	13.1m	21.1	67.6	512	13.1m	21.1	67.6
512	13.8m	21.1	67.6	513	13.8m	21.1	67.6
513	14.5m	21.1	67.6	514	14.5m	21.1	67.6
514	15.2m	21.1	67.6	515	15.2m	21.1	67.6
515	15.9m	21.1	67.6	516	15.9m	21.1	67.6
516	16.6m	21.1	67.6	517	16.6m	21.1	67.6
517	17.3m	21.1	67.6	518	17.3m	21.1	67.6
518	18.0m	21.1	67.6	519	18.0m	21.1	67.6
519	18.7m	21.1	67.6	520	18.7m	21.1	67.6

GRAIN SIZE DISTRIBUTION
 The Natural Conditions Survey on the
 Harbor Development Project of the Industrial Port.

Location of Point: off shore Station No. No 8
 Tidal Stage: S.D. State of Current: _____

Sample No.	Depth	No.	Grain Size Distribution									
Sample No.	Depth	No.	100	200	300	400	500	600	700	800	900	1000
Sample No. 1	0-10	SS-13										
Sample No. 2	10-20	SS-14										



Grain Size	0.075	0.15	0.3	0.6	1.18	2.0
Sample No. 1	100	100	100	100	100	100
Sample No. 2	100	100	100	100	100	100

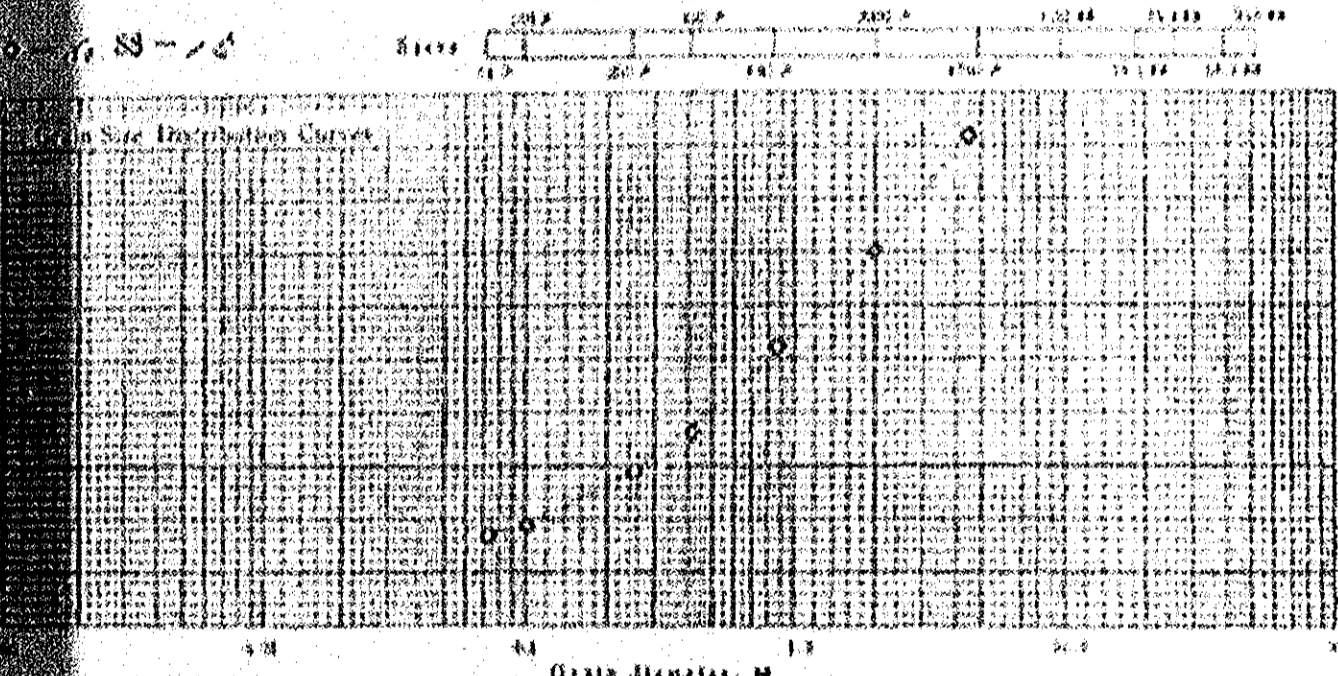
Sample No., Depth	No. SS-13	No. SS-14	Sample No., Depth	No. SS-13	No. SS-14
Sample No. 1, 0-10	2.0	4.1	Sample No. 2, 10-20	4.7	8.8
Sample No. 1, 10-20	1.0	1.7	Sample No. 2, 20-30	1.0	1.7
Sample No. 1, 30-40	1.0	1.7	Sample No. 2, 30-40	1.0	1.7
Sample No. 1, 40-50	1.0	1.7	Sample No. 2, 40-50	1.0	1.7
Sample No. 1, 50-60	1.0	1.7	Sample No. 2, 50-60	1.0	1.7
Sample No. 1, 60-70	1.0	1.7	Sample No. 2, 60-70	1.0	1.7
Sample No. 1, 70-80	1.0	1.7	Sample No. 2, 70-80	1.0	1.7
Sample No. 1, 80-90	1.0	1.7	Sample No. 2, 80-90	1.0	1.7
Sample No. 1, 90-100	1.0	1.7	Sample No. 2, 90-100	1.0	1.7
Sample No. 1, 100-110	1.0	1.7	Sample No. 2, 100-110	1.0	1.7
Sample No. 1, 110-120	1.0	1.7	Sample No. 2, 110-120	1.0	1.7
Sample No. 1, 120-130	1.0	1.7	Sample No. 2, 120-130	1.0	1.7
Sample No. 1, 130-140	1.0	1.7	Sample No. 2, 130-140	1.0	1.7
Sample No. 1, 140-150	1.0	1.7	Sample No. 2, 140-150	1.0	1.7
Sample No. 1, 150-160	1.0	1.7	Sample No. 2, 150-160	1.0	1.7
Sample No. 1, 160-170	1.0	1.7	Sample No. 2, 160-170	1.0	1.7
Sample No. 1, 170-180	1.0	1.7	Sample No. 2, 170-180	1.0	1.7
Sample No. 1, 180-190	1.0	1.7	Sample No. 2, 180-190	1.0	1.7
Sample No. 1, 190-200	1.0	1.7	Sample No. 2, 190-200	1.0	1.7

GRAIN SIZE DISTRIBUTION
 The Natural Conditions Survey on the
 Development Project of the Industrial Port.

Locality of Project: off shore BORING NO. Na 8
 Taken by: D. D. DATE OF TESTING

SAMPLE NO. 33-15		SPECIFIC GRAVITY, G ₂₅										
DIAM.	NO.	500	355	250	150	75	37.5	18.75	9.375	4.7	2.35	1.175
Passing							71.2	67.5	66.4	66.7	67.2	66.9
Retained												

SAMPLE NO. 33-15		SPECIFIC GRAVITY, G ₂₅										
DIAM.	NO.	500	355	250	150	75	37.5	18.75	9.375	4.7	2.35	1.175
Passing												
Retained												



Sample No., Depth	No. 33-15		No. 33-15	
	%	%	%	%
Max. Size	4.75	mm		
Dist. at 60%	1.5	mm		
Dist. at 50%	2.5	mm		
Dist. at 10%				
Coefficient of uniformity				
Coefficient of number				
1000 Mesh Passing		%		%
1500 Mesh Passing		%		%
20 Mesh Passing		%		%

(b) Sea-Bottom Materials

ASH SIZE DISTRIBUTION

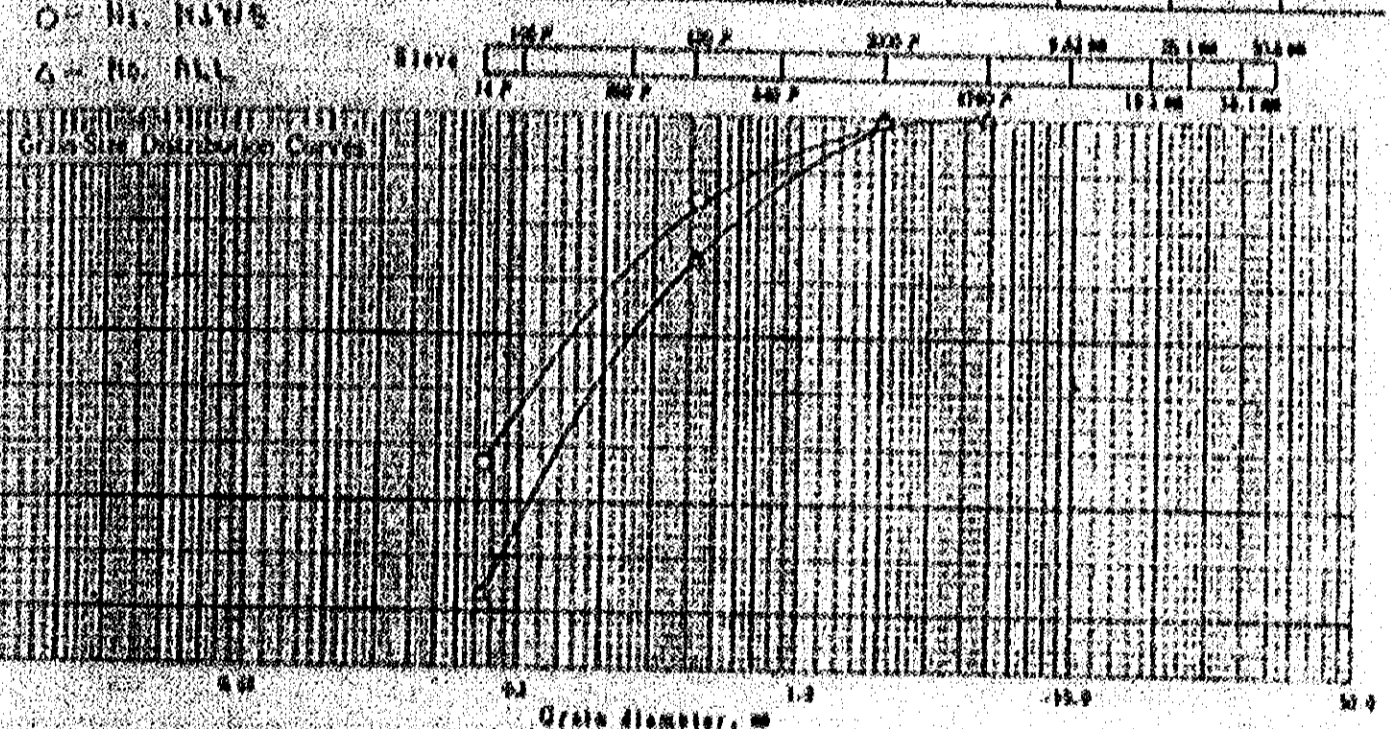
Project: The Development Project of Industrial Port.

Location of Project: RAYONG Boring No. Sand Trap Sample

Tested by: BP Date of Testing: _____

No.	Depth (m)	N.S.T.E. (G.S.) (%)					Specific Gravity, G _{sw}						
		75μ	150μ	300μ	600μ	750μ	200	300	425	600	750	1063	
1	170						1.55		1.15				
2	200						1.55		1.15				

No.	Depth (m)	N.L. (G.S.) (%)					Specific Gravity, G _{sw}						
		75μ	150μ	300μ	600μ	750μ	200	300	425	600	750	1063	
1	170						1.55		1.15				
2	200						1.55		1.15				



CLAY	SILT	SAND	GRAVEL
0.075	0.075	0.075	0.075

No.	Depth	N.S.T.E. (%)	N.L. (%)	Sample No.	Depth	U ₁₀₀	U ₆₀₀
1	170	15.35	26.77	1	170	1.55	1.15
2	200	15.35	26.77	2	200	1.55	1.15

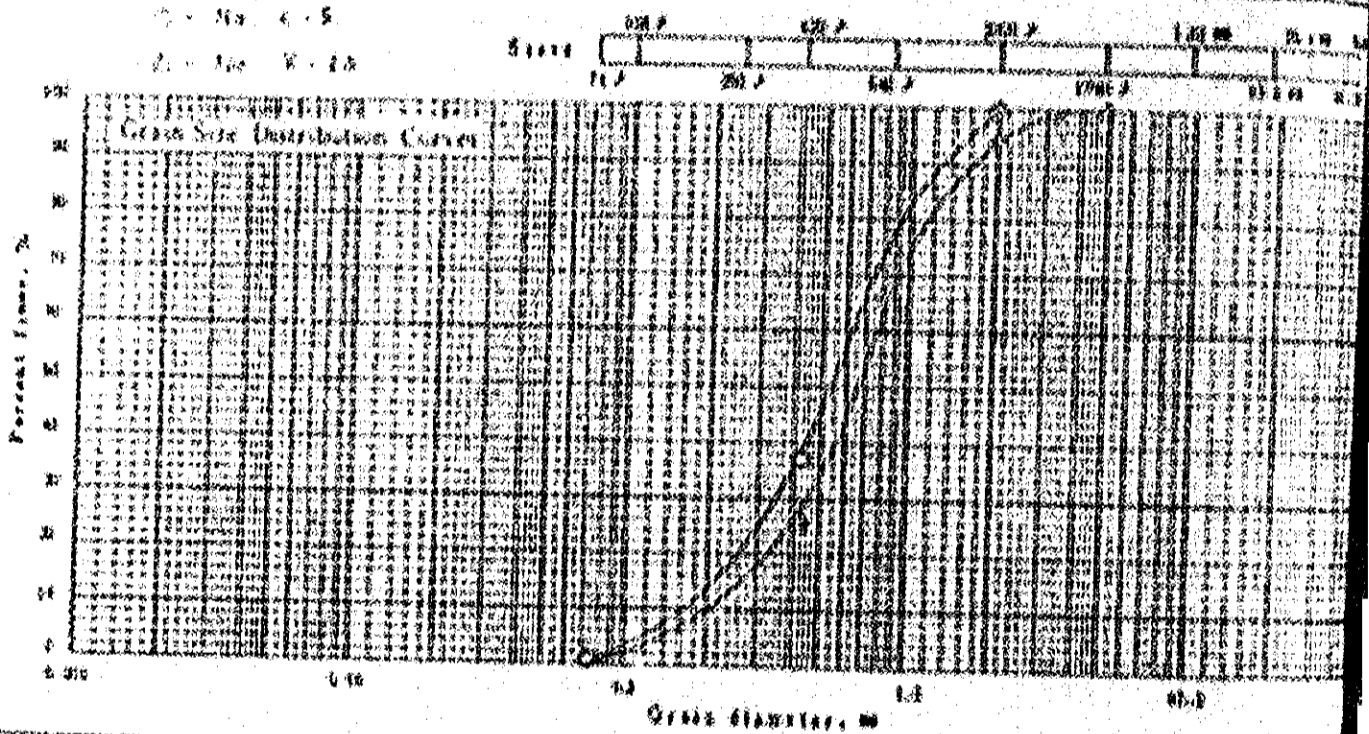
Project No. Job No.
 Location of Project Name of Project Sea bottom materials
 Volume No. Date of Testing

Sample No. Depth: No. () Specific Gravity

Diag. No.	108	111	114	117	121	124	128	131	134	137	141
Diag. No.											
% Passing											

Sample No. Depth: No. () Specific Gravity

Diag. No.	131	134	137	141	144	147	151	154	157	161	164
Diag. No.											
% Passing											



Sample No., Depth	No. <u> </u>	No. <u> </u>	Sample No., Depth	No. <u> </u>
Larger than 4.75mm	0 %	0.2 %	Max. diam.	3.00 mm
4.75 ~ 2.0mm	0.4 %	4.2 %	Diam. at 60%	2.60 mm
2 ~ 0.850mm	12.5 %	29.6 %	Diam. at 30%	2.51 mm
0.850 ~ 0.425mm	11.7 %	22.4 %	Diam. at 10%	0.75 mm
0.425 ~ 0.250mm	3.3 %	7.0 %	Coefficient of uniformity	1.68
Smaller than 0.250mm			Coefficient of curvature	1.31
Smaller than 0.150mm				
2000 Mesh Passing				
425 Mesh Passing				
250 Mesh Passing				

SIZE DISTRIBUTION
 for Analytical Report of
 Industrial Soil

Job No. 640

640

Project: 1470116

Soil No. sea bottom material

BD

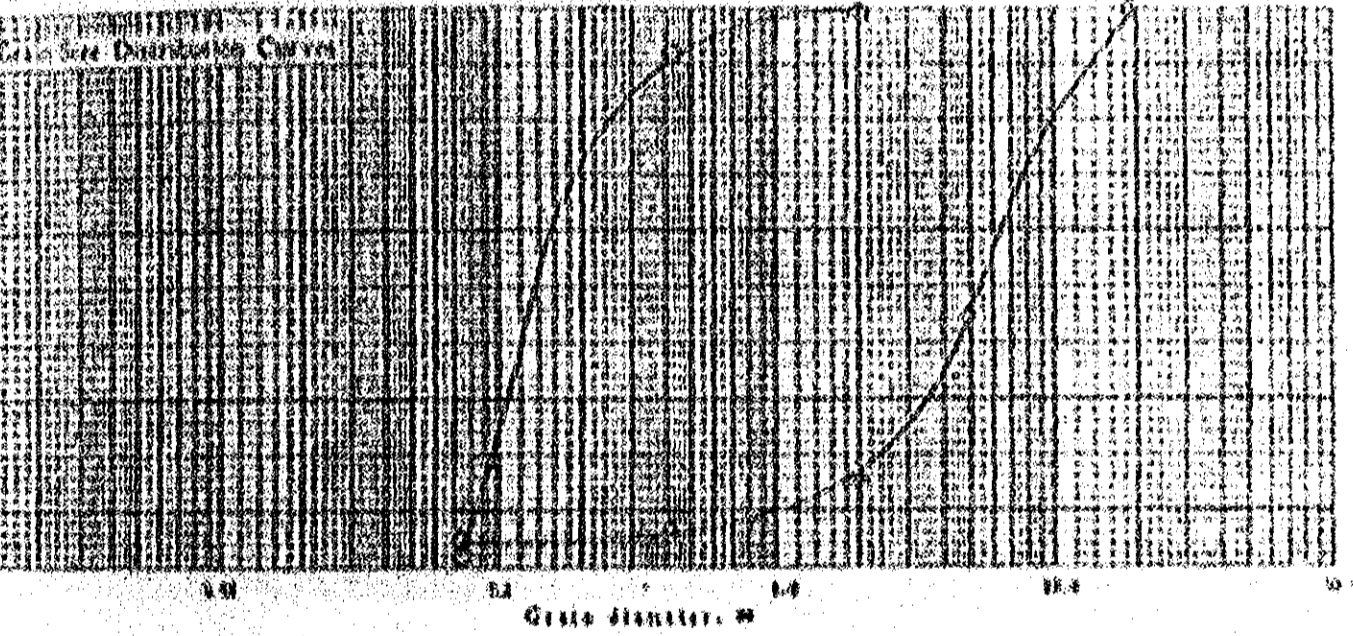
Date of Testing 07/10/82

Table 1: Specific Gravity Data

Sample No.	102	101	104	101	937	478	200	081	012	025	0106	0071
Specific Gravity												

Table 2: Specific Gravity Data

Sample No.	102	101	104	101	941	478	200	081	041	015	0105	0071
Specific Gravity												

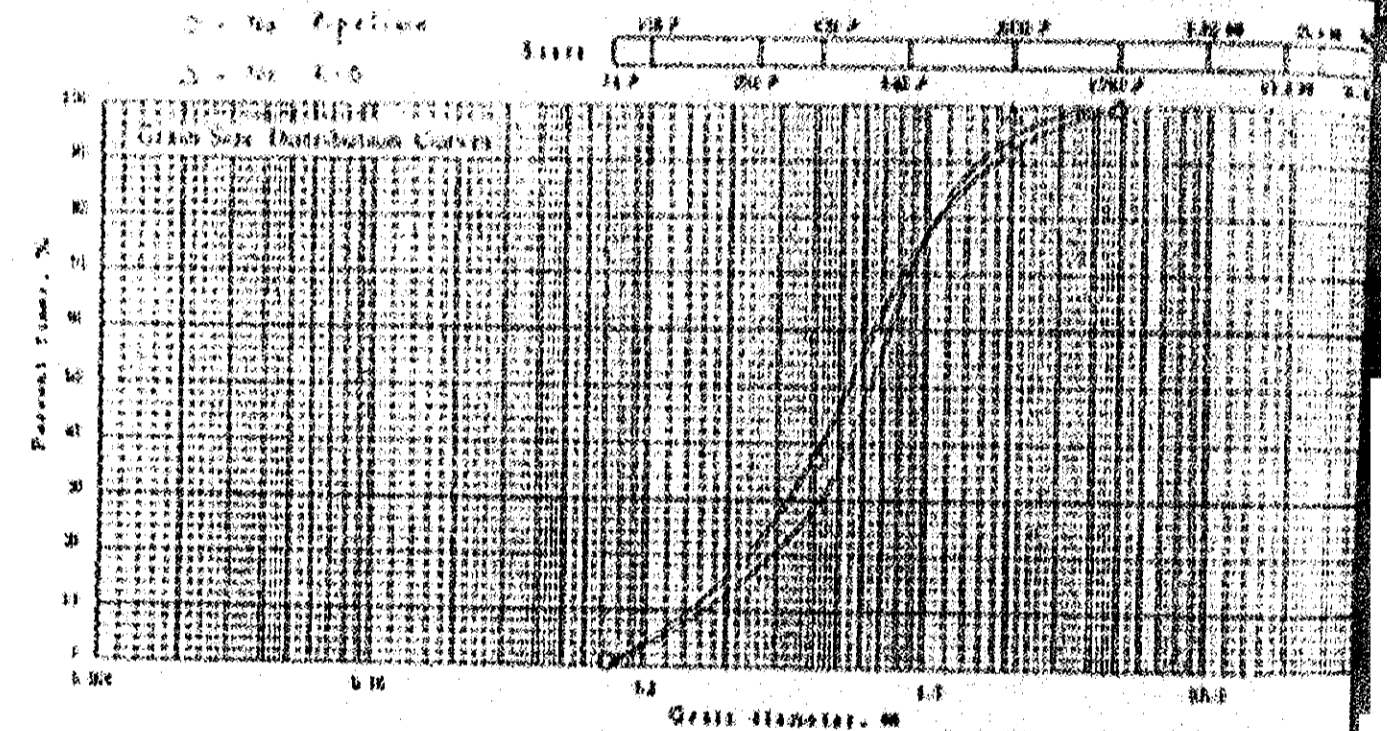


Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0
-----------------	-------	------	-----	-----	------	-----

Depth	Sample No. 102	Sample No. 101	Sample No. Depth	Sample No. 102	Sample No. 101
0-150 mm	0.0 %	27.3 %	Max. diam.	2.50 mm	4.75 mm
150-300 mm	2.7 %	27.9 %	Diam. at 10%	0.15 mm	0.50 mm
300-450 mm	7.4 %	4.5 %	Diam. at 10%	0.15 mm	3.75 mm
450-600 mm	20.3 %	1.1 %	Diam. at 10%	0.075 mm	1.00 mm
600-750 mm	2.0 %	3.2 %	Coefficient of uniformity	1.00	1.50
750-900 mm			Coefficient of skewness	0.00	2.73
900-1050 mm					
1050-1200 mm					
1200-1350 mm					
1350-1500 mm					

Project: Development Canal of Industrial Park No. 140
 Section of Project: AYONB Station No. Sea bottom material
 Date of Testing: 04/10/81

Sample No. Depth (m)	100	200	300	400	500	600	700	800	900	1000
Diagn. No.	100	200	300	400	500	600	700	800	900	1000
% Passing										
Diagn. No.	100	200	300	400	500	600	700	800	900	1000
% Passing										



Sample No. Depth	100	200	Sample No. Depth	100	200
Upper limit	0.8	0.5	Max. diam.	0.75	mm
100 ~ 200	7.9	1.0	Diam. at 10%	0.075	mm
200 ~ 300	24.5	70.0	Diam. at 10%	0.33	mm
300 ~ 400	36.9	19.7	Diam. at 10%	0.14	mm
400 ~ 500	0.3		Coefficient of uniformity	1.04	
Smaller than 0.075mm			Coefficient of curvature	1.30	
Smaller than 0.075mm					
100% Sieve Passing					
100% Sieve Passing					
100% Sieve Passing					

SIZE DISTRIBUTION
 The Development Project of
 Industrial Park

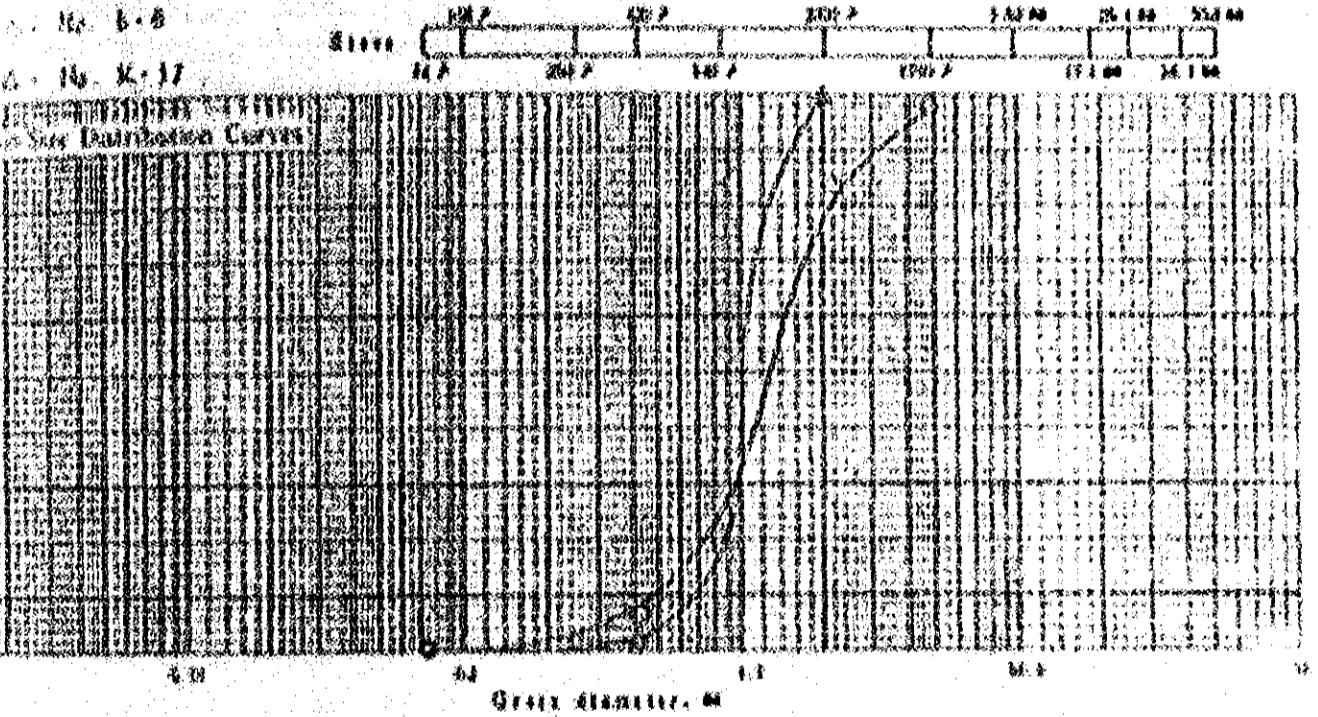
Job No. 640
 Project BAYANG
 Barley No. Sea bottom material
 Date of Testing 07/30/32

Table 1: Sieve Analysis Data (Sample No. 6-3)

Sieve No.	Weight Retained (g)	Specific Gravity (G _m)
100		
150		
200		
250		
300		
350		
400		
450		
500		
600		
700		
800		
900		
1000		

Table 2: Sieve Analysis Data (Sample No. 6-37)

Sieve No.	Weight Retained (g)	Specific Gravity (G _m)
100		
150		
200		
250		
300		
350		
400		
450		
500		
600		
700		
800		
900		
1000		



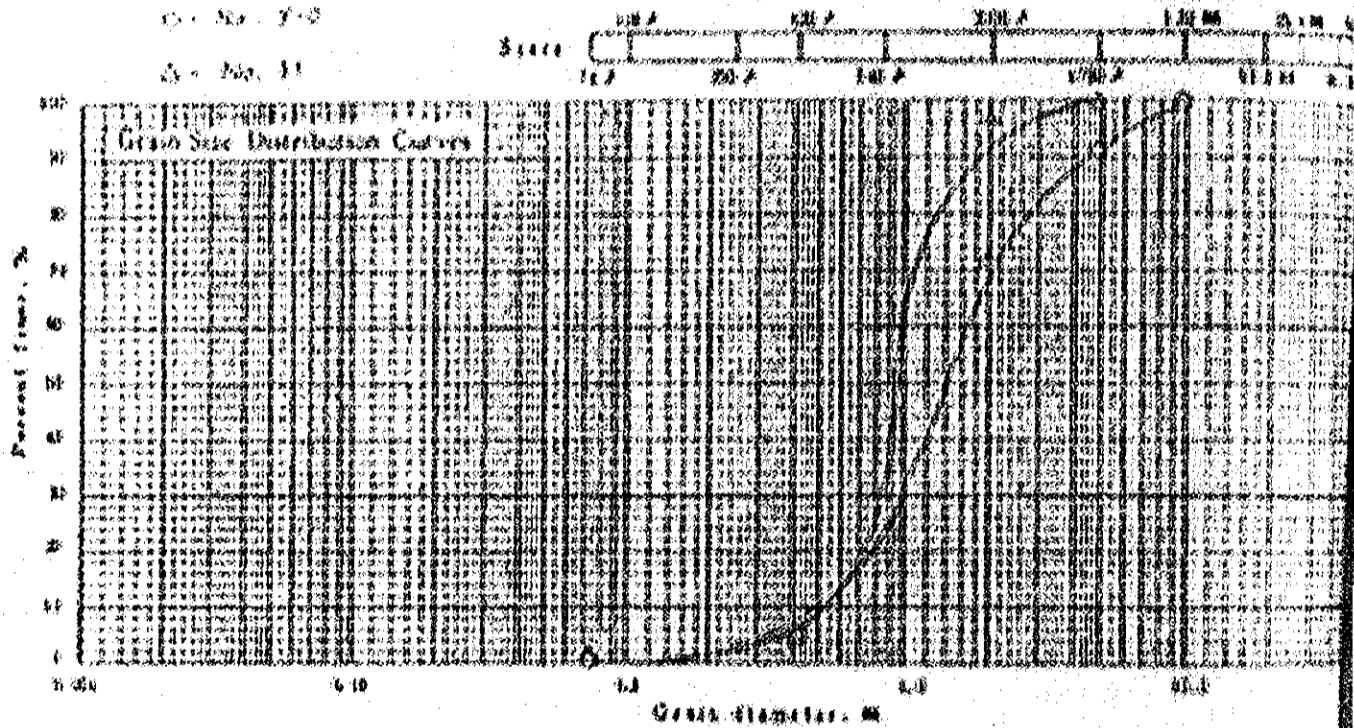
Sieve	600	750	1000	1500
Weight	1.00	1.00	1.00	1.00

Sample No.	6-3	6-37	Sample No.	6-3	6-37
Max. Size	4.75 mm	2.00 mm			
Dist. at 4%	1.50 mm	1.05 mm			
Dist. at 10%	0.85 mm	0.75 mm			
Dist. at 15%	0.50 mm	0.70 mm			
Coefficient of uniformity	3.00	1.80			
Coefficient of curvature	1.70	1.18			

Project: Development Project of Industrial Port No. 140
 Location of Project: LAYONG During No. See bulletin material
 Tested by: BP Date of Testing: 01/30/89

Sample No. Depth (m)		(a) Specific Gravity, G_m										
Diam. (mm)	100	200	300	400	500	600	750	900	1060	1500	2000	2500
% Passing						100	100			100		
Diam. (mm)												
% Passing												

Sample No. Depth (m)		(a) Specific Gravity, G_m										
Diam. (mm)	500	500	500	1000	1500	2000	3000	4000	5000	6000	7500	10000
% Passing						100	100					
Diam. (mm)												
% Passing												



Grain Size	Sample No. 140	Sample No. 140	Sample No. 140	Sample No. 140
Larger than 4.75mm	0.0	0.0	0.0	0.0
4.75 - 7.5mm	0.0	0.0	0.0	0.0
7.5 - 15.0mm	0.0	0.0	0.0	0.0
15.0 - 30.0mm	0.0	0.0	0.0	0.0
30.0 - 60.0mm	0.0	0.0	0.0	0.0
60.0 - 125.0mm	0.0	0.0	0.0	0.0
Smaller than 125.0mm	100.0	100.0	100.0	100.0
Smaller than 600.0mm	100.0	100.0	100.0	100.0
Smaller than 2000.0mm	100.0	100.0	100.0	100.0
2000.0mm Sieve Passing	100.0	100.0	100.0	100.0
4750.0mm Sieve Passing	100.0	100.0	100.0	100.0
7500.0mm Sieve Passing	100.0	100.0	100.0	100.0

SIZE DISTRIBUTION
 In Development Project of
 Industrial Port

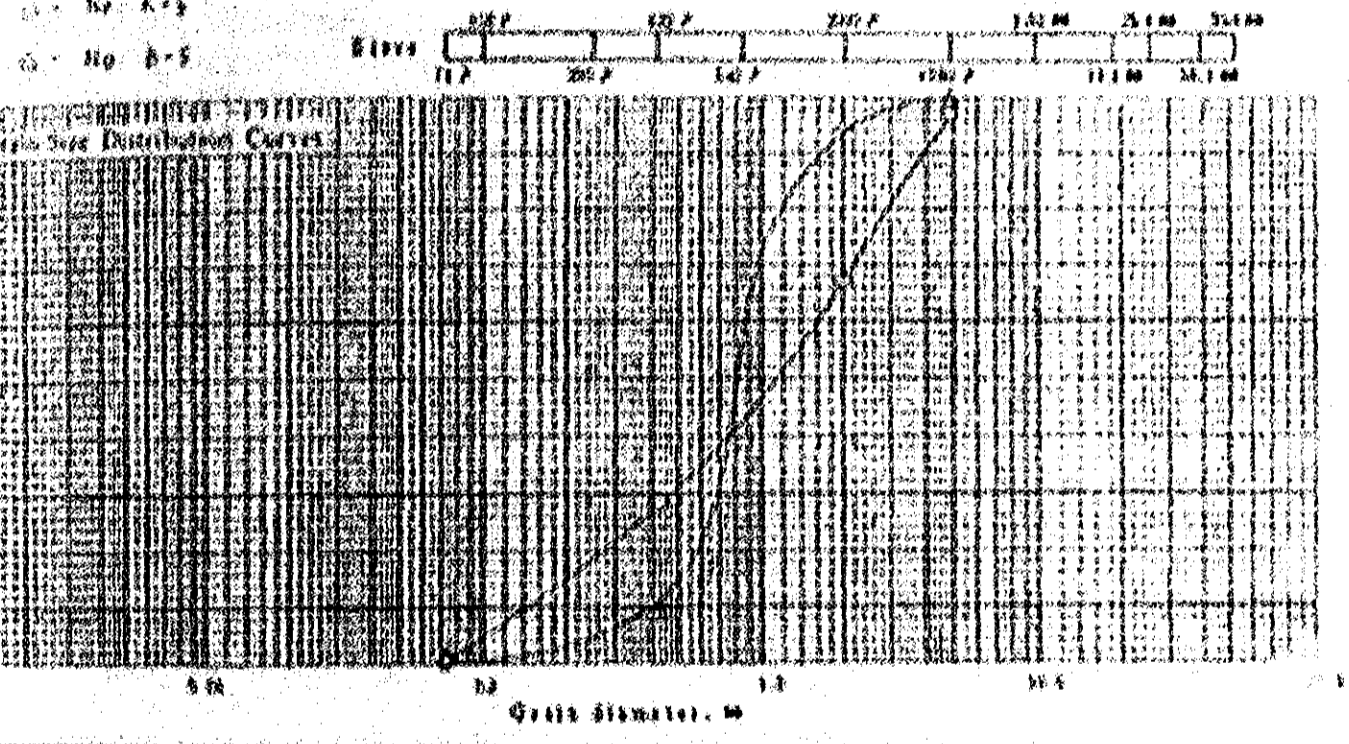
Job No. 640
 Project LAYONG Boring No. Sea Bottom material
BD Date of Testing 01/30/32

Table 1: Specific Gravity Data

Sample No.	W ₁	W ₂	W ₃	W ₄	W ₅	W ₆	W ₇	W ₈	W ₉	W ₁₀	W ₁₁	W ₁₂
100	341	284	121	951	476	200	341	312	275	0105	0071	

Table 2: Specific Gravity Data

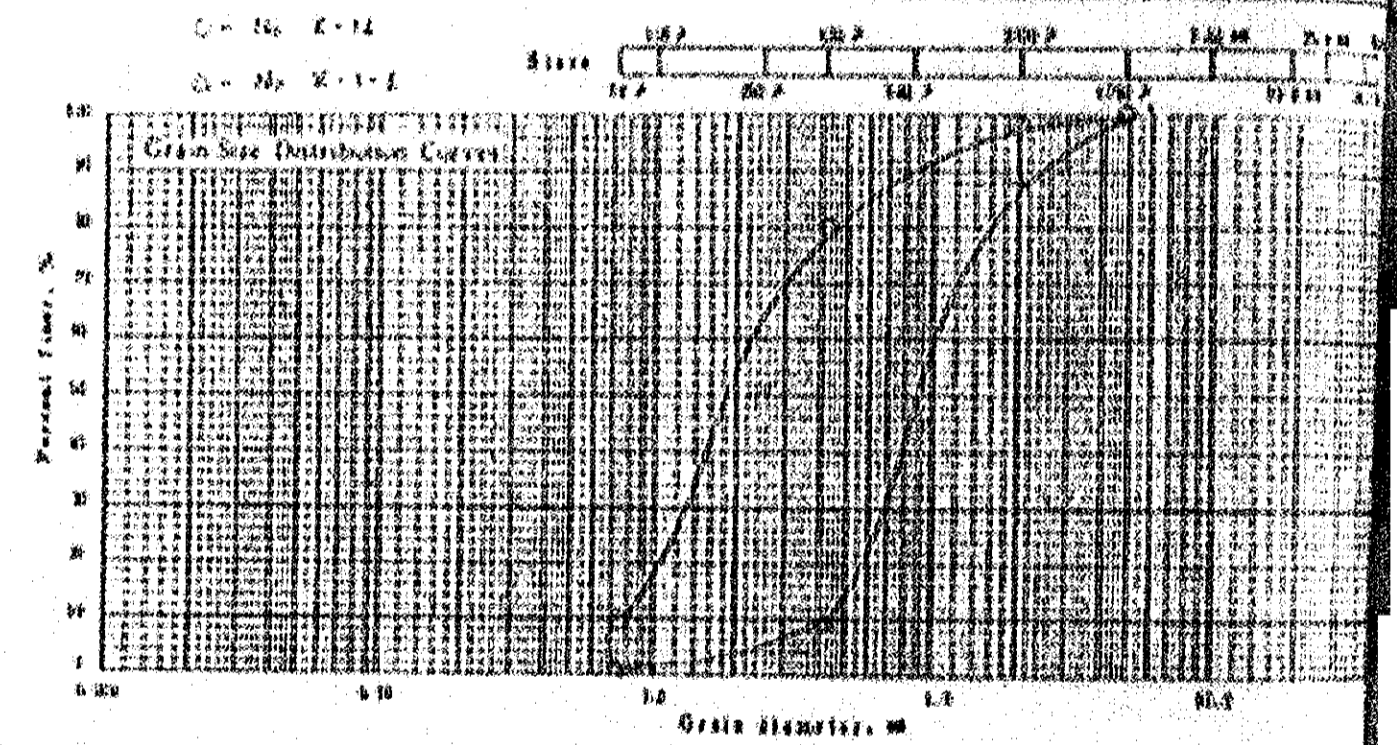
Sample No.	W ₁	W ₂	W ₃	W ₄	W ₅	W ₆	W ₇	W ₈	W ₉	W ₁₀	W ₁₁	W ₁₂
100	341	284	121	951	476	200	341	312	275	0105	0071	



Class	5.00	0.75	0.425	0.25	0.15	0.075
Gravel						
Sand						
Fine Sand						
Silt						
Clay						

GRAVEL SIZE DISTRIBUTION
 Development Project of
 Industrial Belt
 Project No. 640
 Location of Project KAYANG Survey No. 50
 Date of Testing 01/30/59

Sample No. - Depth : No.	Grain Size Distribution											
	0.075	0.15	0.3	0.6	1.18	2.5	5.0	9.5	18	35	60	100
Diap. mm	0.075	0.15	0.3	0.6	1.18	2.5	5.0	9.5	18	35	60	100
% Passing	100	100	100	100	100	100	100	100	100	100	100	100
Diap. mm												
% Passing												



Sample No. - Depth	No. K-14	No. K-1-1	Sample No. - Depth	No. K-14	No. K-1-1
Large than 4.75mm	2.7	0.1	Max. Fin.	4.71	
4.75 - 7.5mm	0.5	11.2	Diap. at 10%	0.75	
7.5 - 12.5mm	18.2	79.6	Diap. at 30%	0.13	
12.5 - 20mm	70.1	9.0	Diap. at 10%	0.38	
20 - 30mm	10.3		Coefficient of uniformity	2.78	
Smaller than 20mm			Coefficient of curvature	3.46	
Smaller than 4.75mm					
Smaller than 7.5mm					
100% Stone Passing					
80% Stone Passing					
60% Stone Passing					

SIZE DISTRIBUTION
 For Development Project of
 Industrial Port

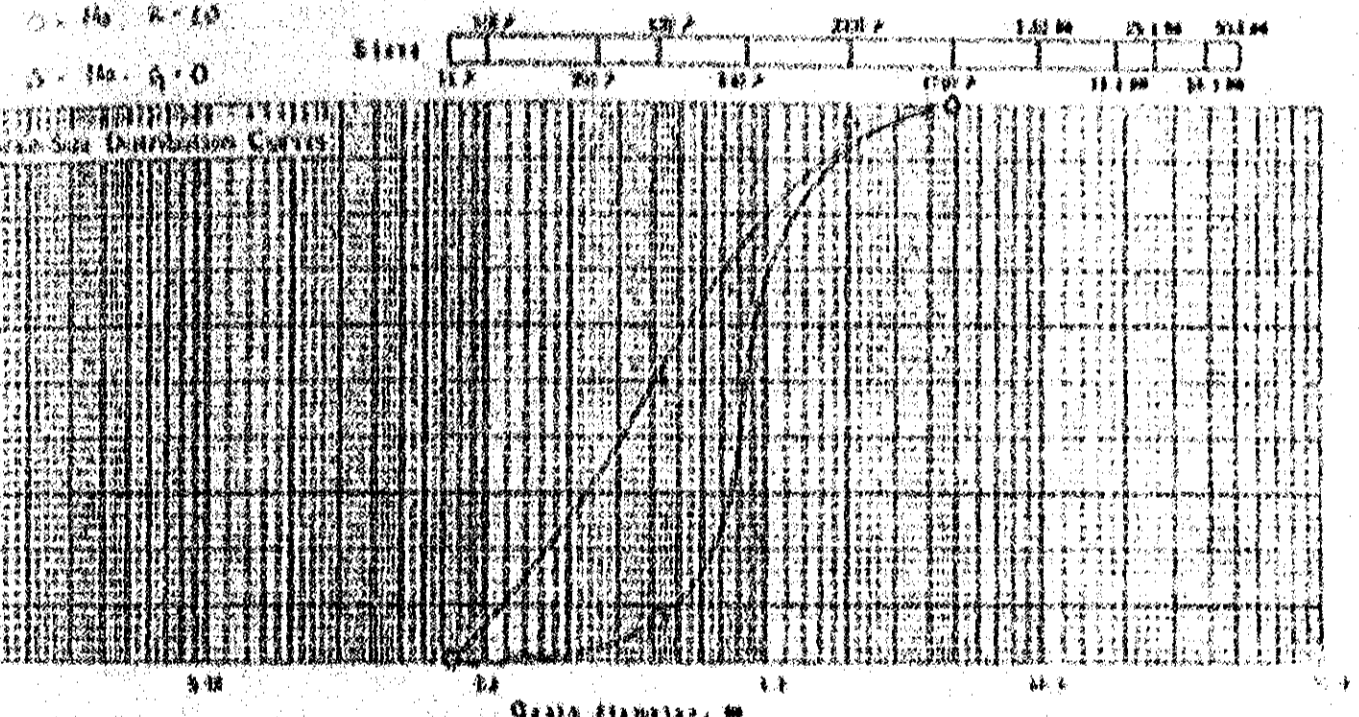
Job No. 640
 Name of Project PAYONG Series No. Sea bottom material
BD Date of Testing 01/30/82

TEST 1 No. 1 (mm) Specific Gravity 2.65

100	75	60	45	30	15	7.5	3.75	1.875	0.9375	0.46875	0.234375	0.1171875

TEST 2 No. 2 (mm) Specific Gravity 2.65

100	75	60	45	30	15	7.5	3.75	1.875	0.9375	0.46875	0.234375	0.1171875

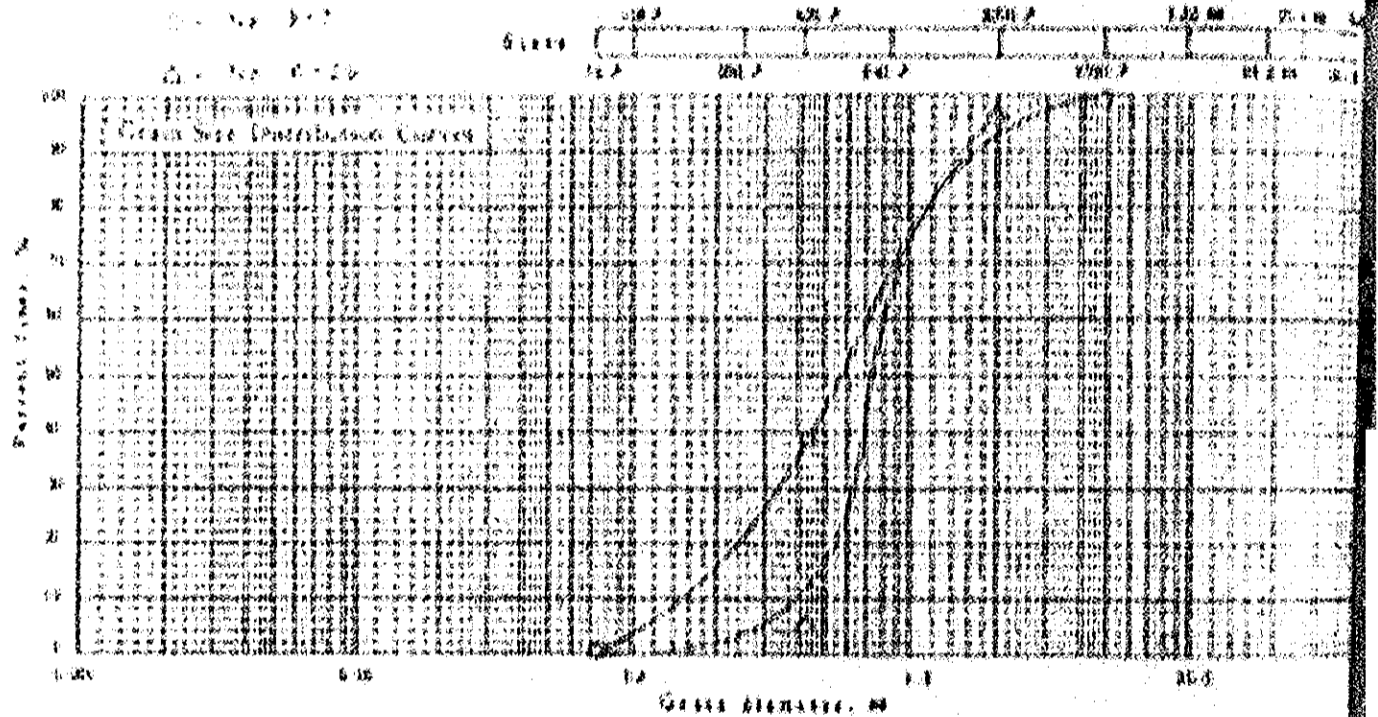


Sieve	0.075	0.15	0.3	0.6	1.18	2.5	4.75	7.5	15	30	45	60	75
mm	0.075	0.15	0.3	0.6	1.18	2.5	4.75	7.5	15	30	45	60	75

Depth	No. 1-10		No. 0-0		Sample No., Depth	No. 2-10		No. 0-0	
	Wt. %	Gr. %	Wt. %	Gr. %		Wt. %	Gr. %	Wt. %	Gr. %
CLM	0.2	%	0.1	%	Mid. Hgt.	4.75	mm	4.75	mm
	7.1	%	1.7	%	Dist. 14	0.40	mm	0.40	mm
	85.6	%	98.2	%	Dist. 11	0.75	mm	0.75	mm
11M	2.5	%	41.5	%	Dist. 11	2.50	mm	2.50	mm
11M		%	0.7	%	Coef. of uniformity	1.80		4.61	
AC 11M		%		%	Coef. of skewness	1.35		1.88	
AC 21M		%		%					
AC 41M		%		%					
AC 61M		%		%					
AC 81M		%		%					
AC 101M		%		%					

Project: Development of Project of Industrial Port No. 410
 Location of Project: SA 10116 Series No. Sea bottom material
 Test No. 85 Date of Testing 29/10/82

Sample No.	Depth (m)	1	2	3	4	5	6	7	8	9	10	11
Grain No.	500	100	250	500	750	1000	1500	2000	3000	4000	5000	6000
% Passing												
Grain No.	500	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
% Passing												



Sample No., Depth	No.	%	Sample No., Depth	No.	%
Larger than 475mm	0.0	%	Max. Item	4.75	mm
475 ~ 600	3.3	%	Grain, at 600	1.20	mm
600 ~ 750	41.3	%	Grain, at 750	2.25	mm
750 ~ 1000	4.8	%	Grain, at 1000	0.40	mm
1000 ~ 1500	0.7	%	Coefficient of uniformity	2.00	
Smaller than 1500mm		%	Coefficient of skewness	1.12	
Smaller than 2000mm		%			
2000 Sieve Passing		%			
425 Sieve Passing		%			
150 Sieve Passing		%			

SIZE DISTRIBUTION
Development Project of
Industrial Park

100 No. 500

RAYONG

100 No.

See bottom material

RD

Date of Testing

09/30/82

100 No. 500

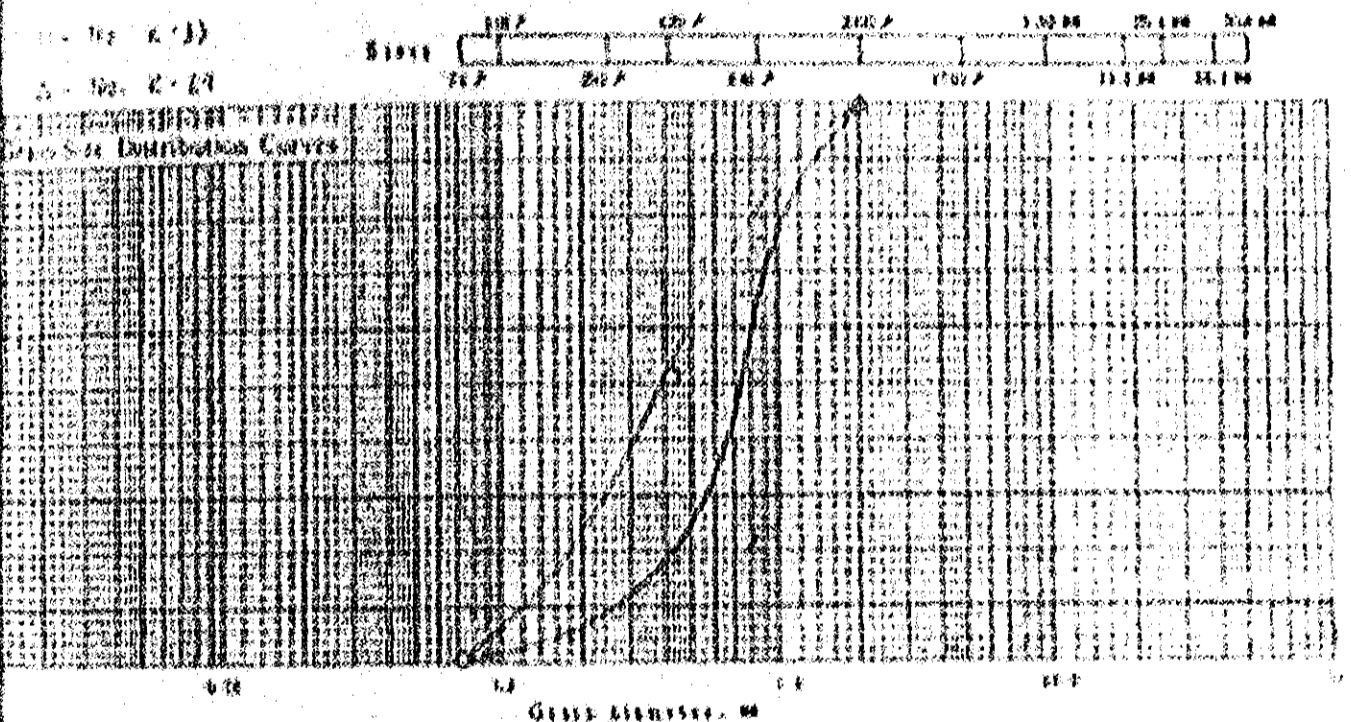
Specific Gravity, G_m

100	200	300	400	500	600	700	800	900	1000	1100	1200

100 No. 500

Specific Gravity, G_m

100	200	300	400	500	600	700	800	900	1000	1100	1200

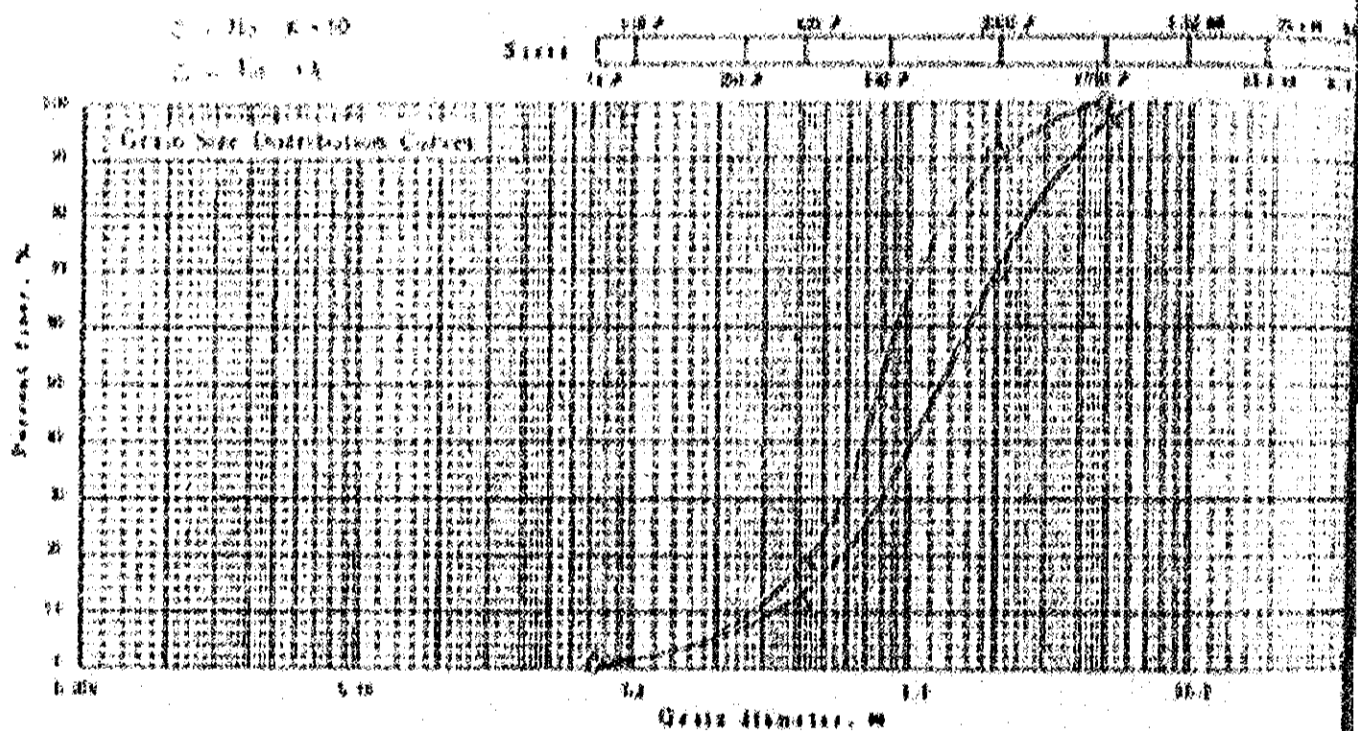


0.075	0.150	0.300	0.600	1.180	2.500	5.000	10.000	20.000	40.000	75.000
-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------

Property	No. R-23	No. R-24	Sample No. Digit	No. R-23	No. R-24
Max. diam.	0.425	0.425		0.425	0.425
Diam. at 10%	0.150	0.150		0.150	0.150
Diam. at 50%	0.300	0.300		0.300	0.300
Diam. at 90%	0.750	0.750		0.750	0.750
Coefficient of uniformity	2.17	2.17		2.17	2.17
Coefficient of skewness	0.25	0.25		0.25	0.25
Other properties	%	%		%	%

Project: Development Project of Industrial Park No. 690
 Location of Project: FAYOUMH No. Sea bottom material
 Tested by: BD Date of Testing: 07/30/82

Sample No. / Depth (m)	10	20	30	40	50	60	70	80	90	100
Diagn. M										
% Passing										
Diagn. M										
% Passing										



Sample No. / Depth	No. 1-10	No. 11	Sample No. / Depth	No. 2-13
Large than 4.75mm	0.9 %	3.6 %	Max. Flak.	4.7 %
4.75 - 2mm	2.7 %	17.3 %	Diagn. at 10%	0.90 mm
2 - 0.85mm	10.0 %	51.7 %	Diagn. at 10%	0.75 mm
0.85 - 0.425mm	10.1 %	11.3 %	Diagn. at 10%	0.60 mm
0.425 - 0.25mm		1.4 %	Coefficient of uniformity	1.71
Smaller than 0.25mm			Coefficient of curvature	1.03
Smaller than 0.075mm				
2000# Sieve Passing				
100# Sieve Passing				
40# Sieve Passing				

SIZE DISTRIBUTION

Job No.

Sample No. *See below. Details*

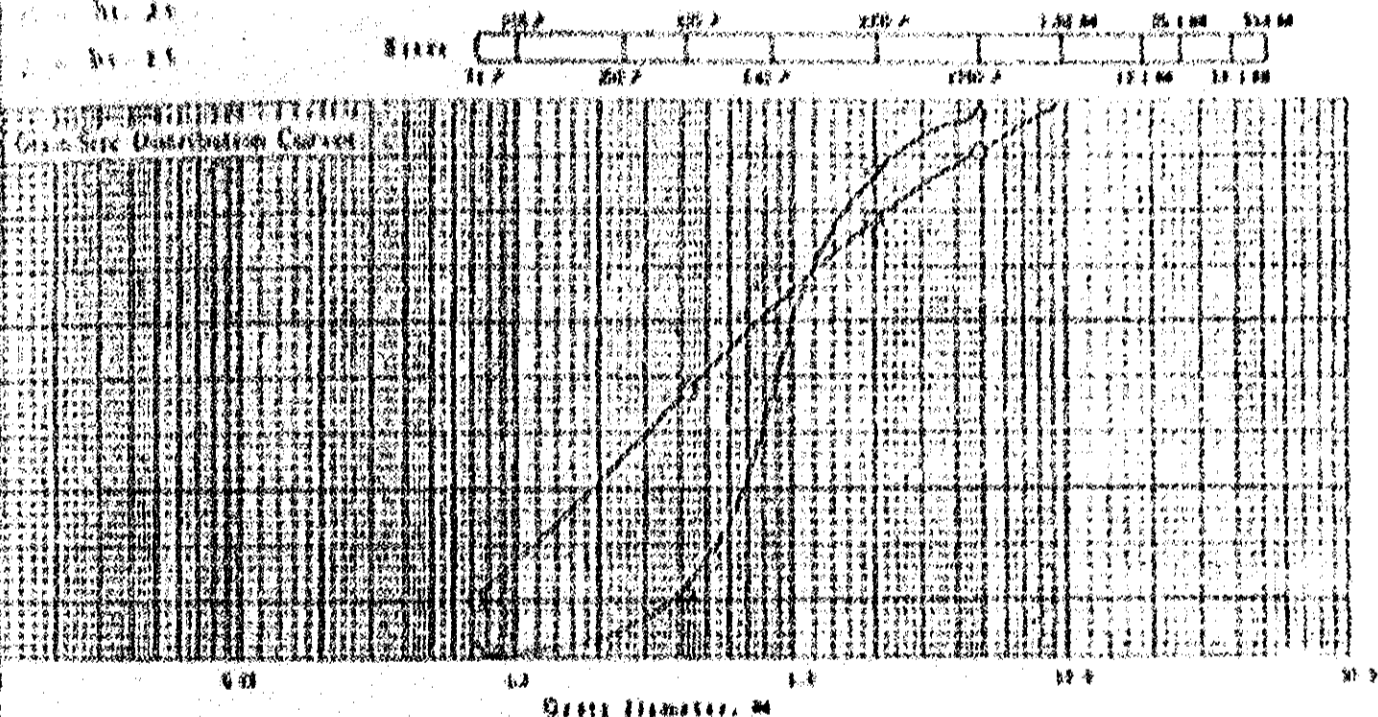
Date of Testing *12/21/53*

Depth: 20' *J*

mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
100	200	400	600	800	1000	1500	2000	3000	4000	6000	10000

Depth: 10' *J*

mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
100	200	400	600	800	1000	1500	2000	3000	4000	6000	10000



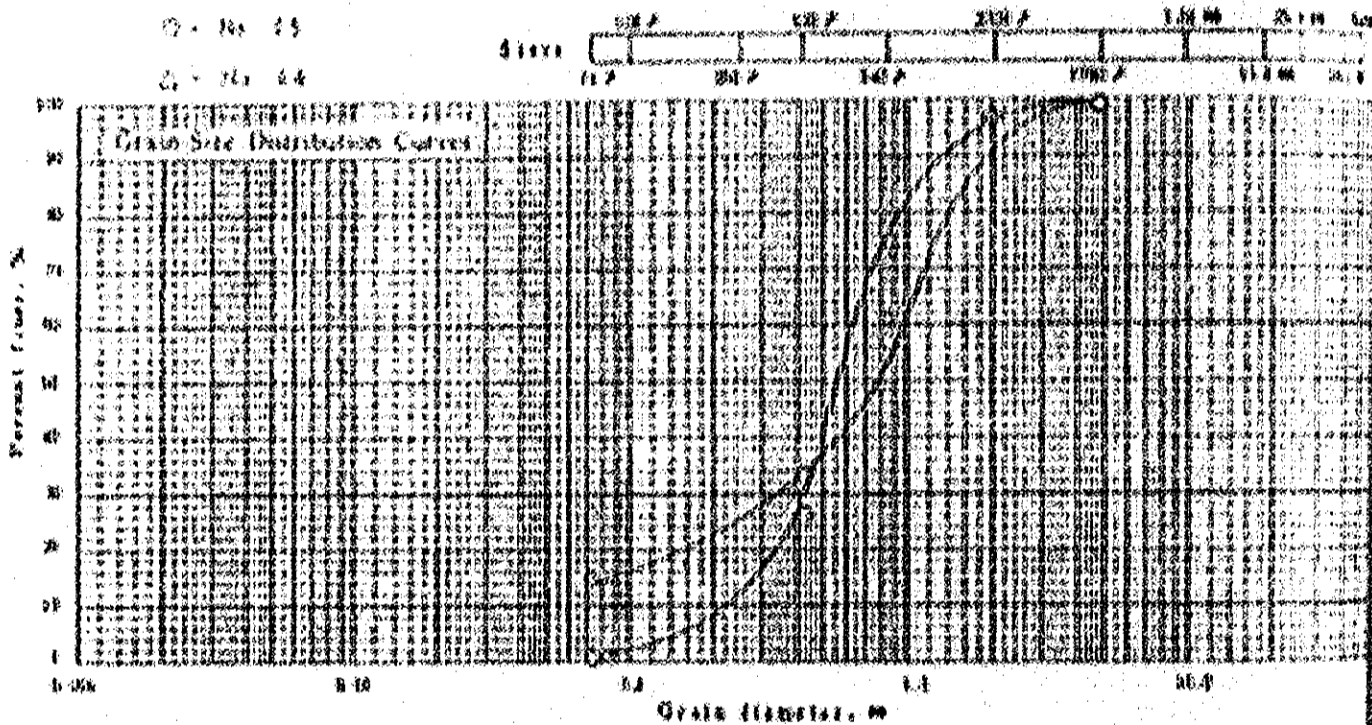
mm	mm	mm	mm	mm	mm
0.075	0.150	0.300	0.600	1.200	2.500
No. 200	No. 100	No. 50	No. 25	No. 12.5	No. 6.3
Sample No., Depth	No. 20	No. 10	Sample No., Depth	No. 20	No. 10
Max. Item	4.75	7.5	Max. Item	4.75	7.5
Distn. at 10%	11.7	16.3	Distn. at 10%	11.7	16.3
Distn. at 20%	21.4	29.7	Distn. at 20%	21.4	29.7
Distn. at 30%	31.7	42.5	Distn. at 30%	31.7	42.5
Distn. at 40%	42.5	57.5	Distn. at 40%	42.5	57.5
Distn. at 50%	57.5	75.0	Distn. at 50%	57.5	75.0
Distn. at 60%	75.0	100.0	Distn. at 60%	75.0	100.0
Distn. at 70%	100.0	100.0	Distn. at 70%	100.0	100.0
Distn. at 80%	100.0	100.0	Distn. at 80%	100.0	100.0
Distn. at 90%	100.0	100.0	Distn. at 90%	100.0	100.0
Distn. at 100%	100.0	100.0	Distn. at 100%	100.0	100.0
Coefficients of uniformity	2.13	2.13	Coefficients of uniformity	2.13	2.13
Coefficients of curvature	1.22	1.22	Coefficients of curvature	1.22	1.22

GRAIN SIZE DISTRIBUTION
 for development of project of
 Industrial Belt

Project No. 600
 Location of Project RAYONG
 Nature of Project Sea Polluted material
 Total No. 20
 Date of Testing 01/30/62

Sample No. Depth : No.	n) Specific Gravity, Gm										
Diam. #	100	150	200	250	300	350	400	450	500	550	600
% Passing											
Diam. #											
% Passing											

Sample No. Depth : No.	n) Specific Gravity, Gm										
Diam. #	100	150	200	250	300	350	400	450	500	550	600
% Passing											
Diam. #											
% Passing											



Grain Size	0.075	0.15	0.3	0.6
------------	-------	------	-----	-----

Sample No., Depth	20	25	Sample No., Depth	20	25
Larger than 475mm	1.1 %	1.7 %	Max. Item	4.71 mm	
475 ~ 250	1.5 %	2.9 %	Diam. at 10%	1.15 mm	
250 ~ 150	10.2 %	65.1 %	Diam. at 10%	1.42 mm	
150 ~ 75	24.2 %	17.2 %	Diam. at 10%	1.76 mm	
75 ~ 47.5	0.2 %	14.5 %	Coefficient of uniformity	2.91	
Smaller than 47.5mm			Coefficient of curvature	1.26	
Smaller than 47.5mm					
1000 Sieve Passing					
475 Sieve Passing					
150 Sieve Passing					

SIZE DISTRIBUTION

Job No. _____

Project Name: Barrow No. 3rd Station Materials

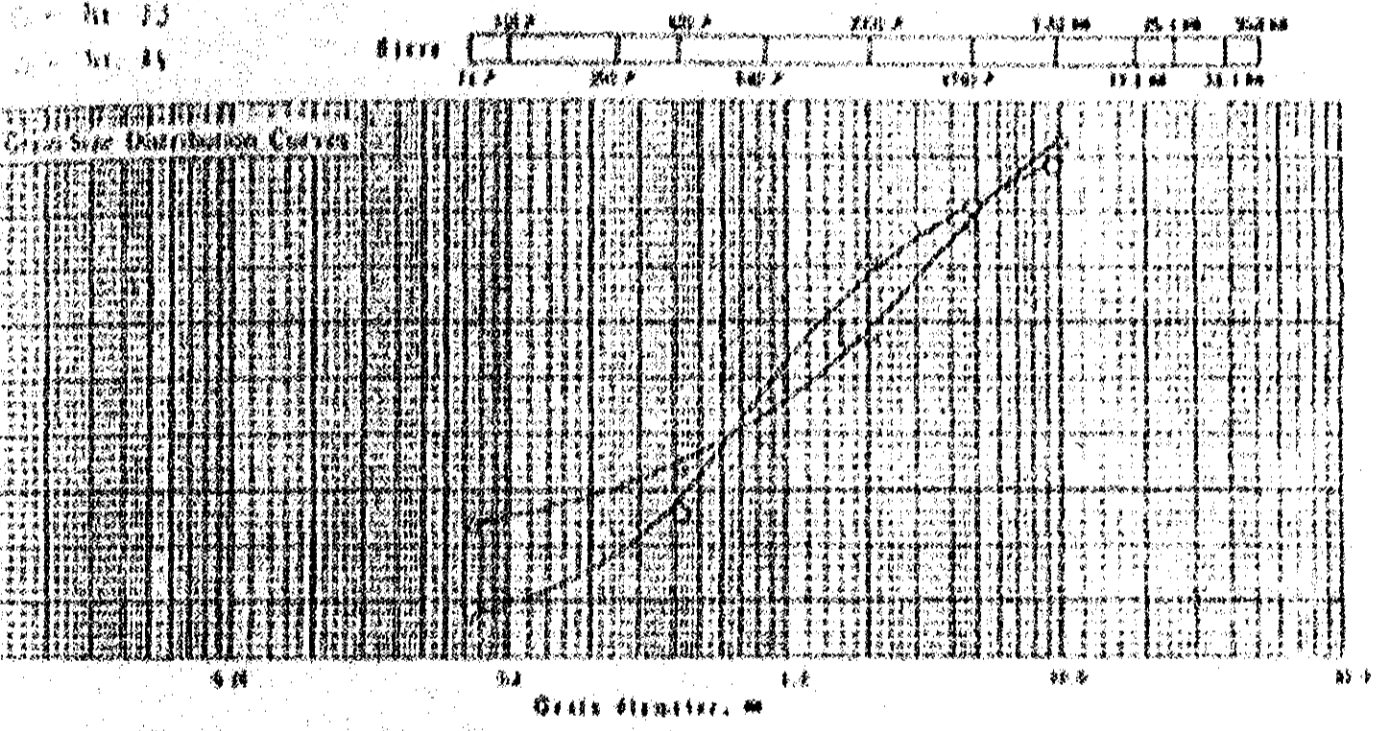
Date of Testing: 7/21/11

Depth: 1.5 (1) Specific Gravity: 2.65

mm	300	250	190	150	118	75	42.5	20	7.5	0.75	0.075	0.0075
%					11.1	16.5	27.5		14.1			7.5

Depth: 1.5 (1) Specific Gravity: 2.65

mm	300	250	190	150	118	75	42.5	20	7.5	0.75	0.075	0.0075
%					11.2	17.0	27.5		14.7			7.5



Grain Size	Sample No. 1	Sample No. 2	Sample No. 3	Sample No. 4
300				
250				
190				
150				
118	11.1	11.2		
75	16.5	17.0		
42.5	27.5	27.5		
20				
7.5	14.1	14.7		
0.75				
0.075	7.5	7.5		
0.0075				

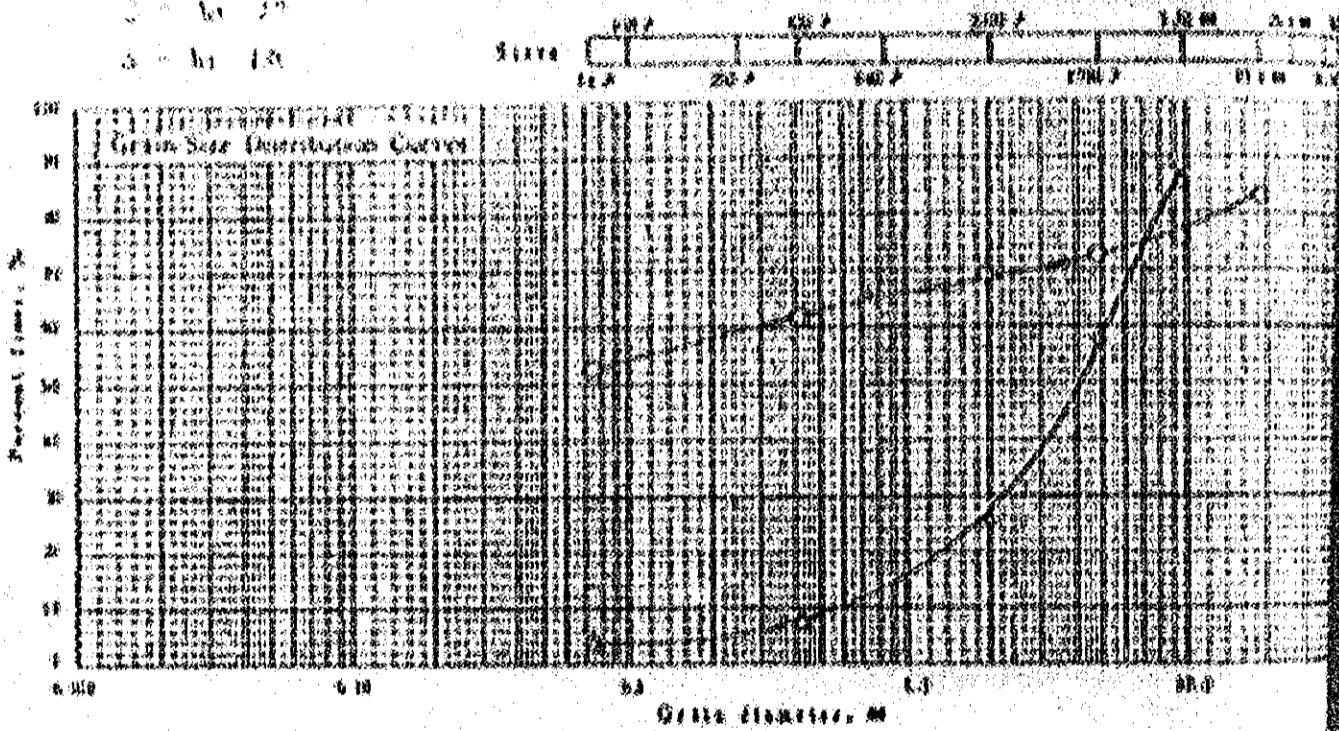
Project Sea Bottom Materials Job No. 10/01/52
 Location of Project Sea Bottom Materials Dredging No. 10/01/52
 Tested by _____ Date of Testing 10/01/52

Sample No. 27 Depth: No. 17 (17) Specific Gravity 2.65

Diap. No.	100	200	300	400	500	600	700	800	900	1000	1000
% Passing				100	75	62	45			12	
Diap. No.											
% Passing											

Sample No. 27 Depth: No. 18 (18) Specific Gravity 2.65

Diap. No.	100	200	300	400	500	600	700	800	900	1000	1000
% Passing					15	37	27			5	
Diap. No.											
% Passing											



Coastal	Clay	Silt	Sand	Gravel
0.000	0.000	0.000	0.000	0.000
Sample No. <u>27</u>	Sample No. <u>27</u>	Sample No. <u>27</u>	Sample No. <u>27</u>	Sample No. <u>27</u>
Depth <u>17</u>	Depth <u>17</u>	Depth <u>17</u>	Depth <u>17</u>	Depth <u>17</u>
Max. diam. <u>17.1</u>	Max. diam. <u>17.1</u>	Max. diam. <u>17.1</u>	Max. diam. <u>17.1</u>	Max. diam. <u>17.1</u>
Diam. at 10% <u>1.2</u>	Diam. at 10% <u>1.2</u>	Diam. at 10% <u>1.2</u>	Diam. at 10% <u>1.2</u>	Diam. at 10% <u>1.2</u>
Diam. at 30% <u>0.1</u>	Diam. at 30% <u>0.1</u>	Diam. at 30% <u>0.1</u>	Diam. at 30% <u>0.1</u>	Diam. at 30% <u>0.1</u>
Diam. at 50% <u>0.1</u>	Diam. at 50% <u>0.1</u>	Diam. at 50% <u>0.1</u>	Diam. at 50% <u>0.1</u>	Diam. at 50% <u>0.1</u>
Diam. at 70% <u>0.1</u>	Diam. at 70% <u>0.1</u>	Diam. at 70% <u>0.1</u>	Diam. at 70% <u>0.1</u>	Diam. at 70% <u>0.1</u>
Smaller than 0.075mm	%	%	%	%
Smaller than 0.001mm	%	%	%	%
2000 Sieve Retention	%	%	%	%
100 Sieve Retention	%	%	%	%
10 Sieve Retention	%	%	%	%

GRAIN SIZE DISTRIBUTION

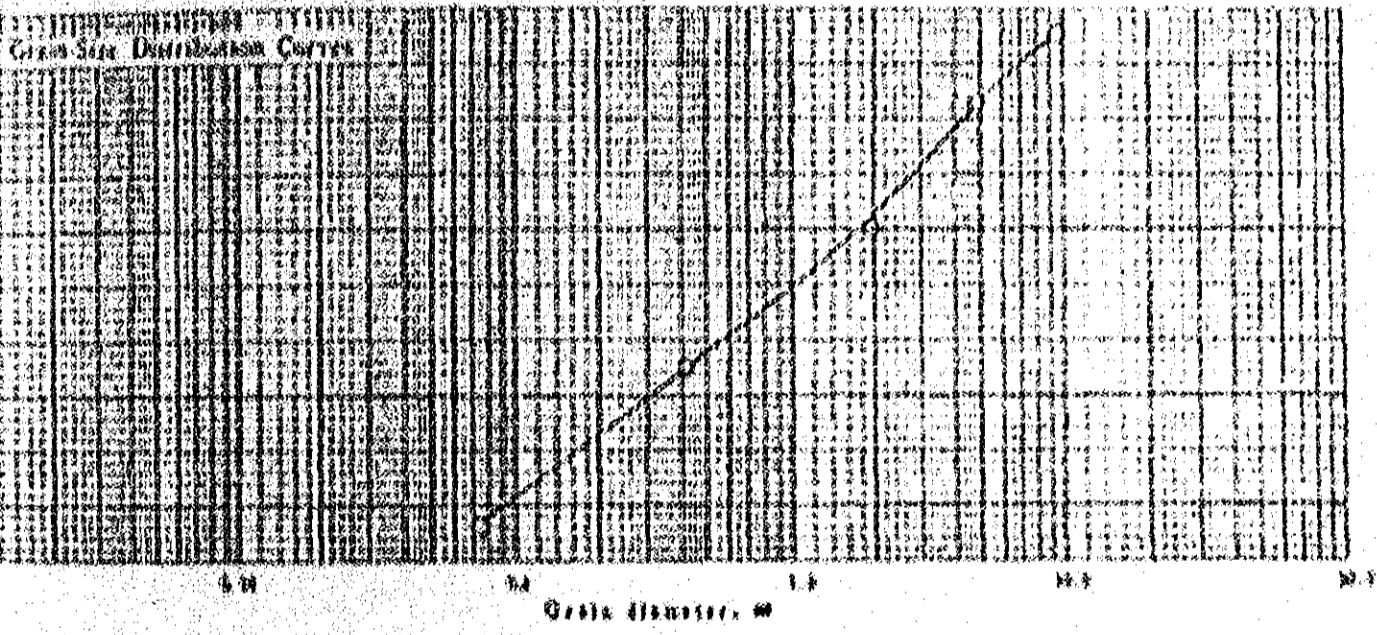
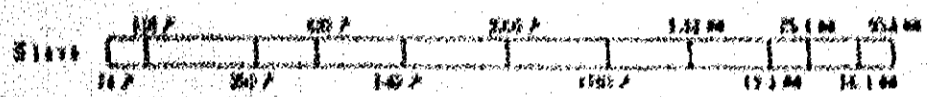
Job No. _____
 Name of Project: Boiling Mt. Sea Bottom Materials
 Date of Testing: 10/01/82

Depth: No. 30 (30) Specific Gravity: 2.65

U.S. No.	200	150	100	75	60	45	30	20	15	10	7.5	5	3	2
Weight														
Percent														

Depth: No. _____ (_____) Specific Gravity: _____

U.S. No.	200	150	100	75	60	45	30	20	15	10	7.5	5	3	2
Weight														
Percent														



Clay	Silt	Sand	Gravel
0.075	0.075 - 0.075	0.075 - 0.075	0.075 - 0.075

No., Depth	W _L	W _P	U _c	Sample No., Depth	W _L	W _P	U _c
1100	16.9	33.9	1.97	1100	16.9	33.9	1.97
1150	25.5	31.5	1.22	1150	25.5	31.5	1.22
1200				1200			
1250				1250			
1300				1300			
1350				1350			
1400				1400			
1450				1450			
1500				1500			

5. Atterberg Limits
(Liquid Limit & Plastic Limit)

LIQUID LIMITS DETERMINATION
 The Natural Conditions Survey on the
 Development Project of the Industrial Port,
 off shore

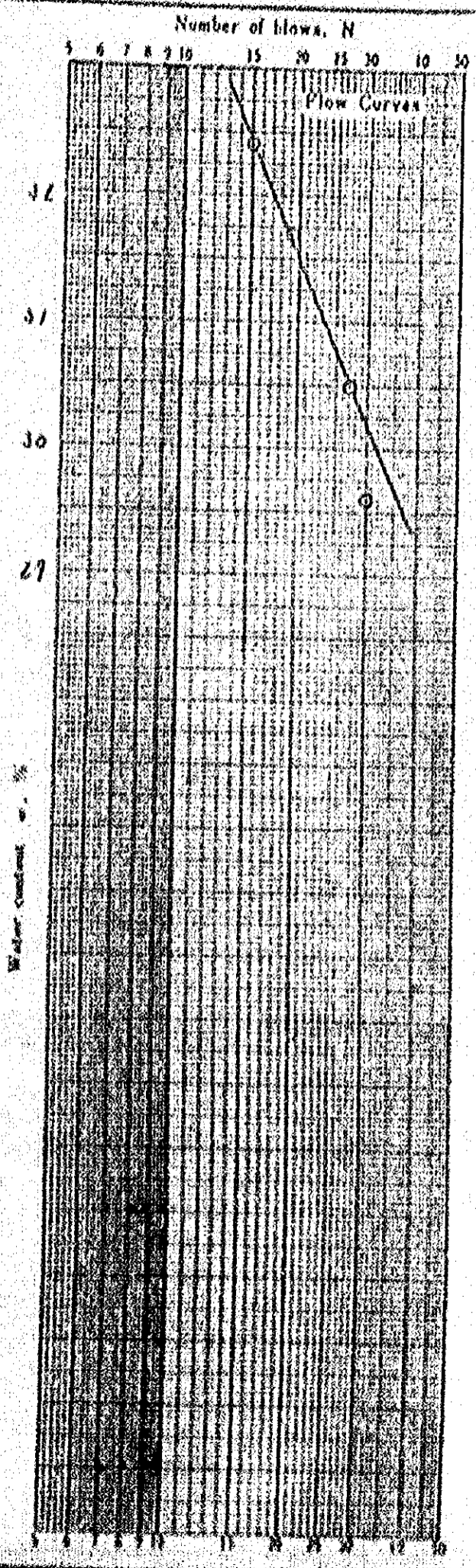
Project No. _____
 Boring No. **No 7**

of Project _____
 Date **2/10/82**

Depth	No.	(280m ~ 2845m)	
Liquid limit test		Plastic limit test	
of blow	Water content %	Test No.	Water content %
30	22.6	1	17.4
27	29.5	2	16.7
17	21.7	3	
15	21.4	Average	17.1
Plastic limit		Plasticity index	Flow index
17.1		13.7	

Depth	No.	(m ~ m)	
Liquid limit test		Plastic limit test	
of blow	Water content %	Test No.	Water content %
		1	
		2	
		3	
		Average	
Plastic limit		Plasticity index	Flow index

Depth	No.	(m ~ m)	
Liquid limit test		Plastic limit test	
of blow	Water content %	Test No.	Water content %
		1	
		2	
		3	
		Average	
Plastic limit		Plasticity index	Flow index



ATTERBERG LIMITS DETERMINATION
 The Natural Conditions Survey on the
 Development Project of the Industrial Port,
 off shore

Project No. _____
 Drawing No. **No**

Date of Test: **7/10/82**

Sample No. **334** Depth No. **190m (165m)**

Liquid limit test			Plastic limit test	
Test No.	No. of blows	Water content %	Test No.	Water content %
1	26	44.2	1	26.0
2	24	46.1	2	26.6
3	18	43.3	3	
4	9	43.7	Average	26.1

Liquid limit	Plastic limit	Plasticity index	Flow index
46.0	26.1	19.9	

Remarks

Sample No. _____ Depth No. _____

Liquid limit test			Plastic limit test	
Test No.	No. of blows	Water content %	Test No.	Water content %
1			1	
2			2	
3			3	
4			Average	

Liquid limit	Plastic limit	Plasticity index	Flow index

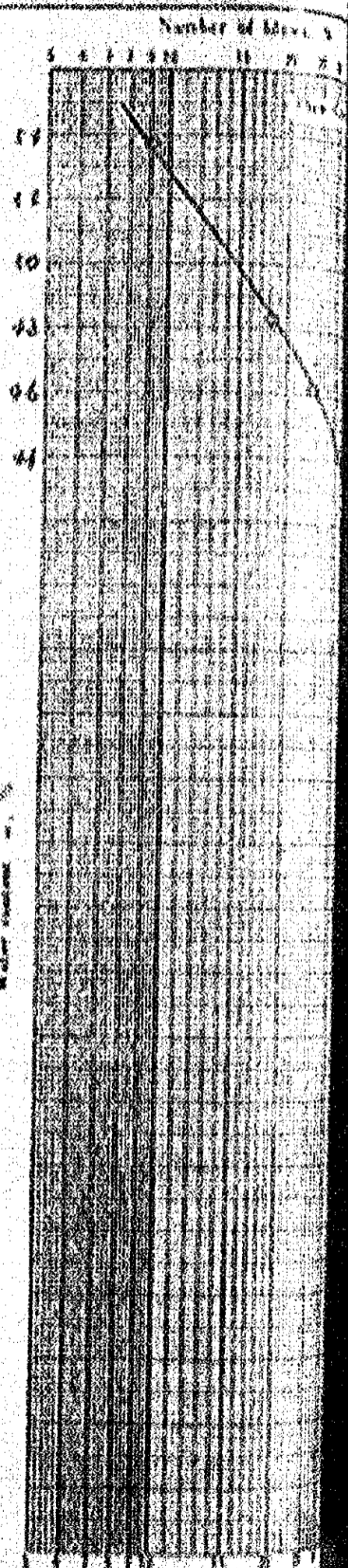
Remarks

Sample No. _____ Depth No. _____

Liquid limit test			Plastic limit test	
Test No.	No. of blows	Water content %	Test No.	Water content %
1			1	
2			2	
3			3	
4			Average	

Liquid limit	Plastic limit	Plasticity index	Flow index

Remarks



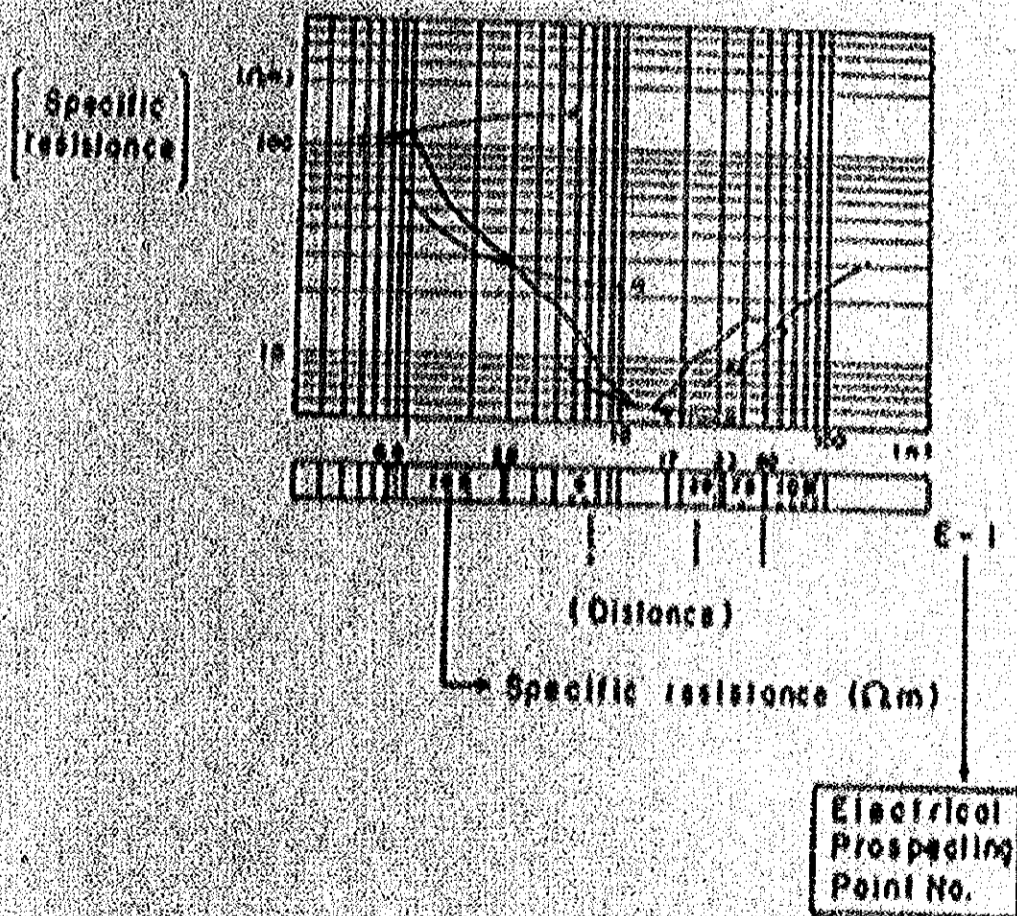
III. GEOPHYSICAL PROSPECTING

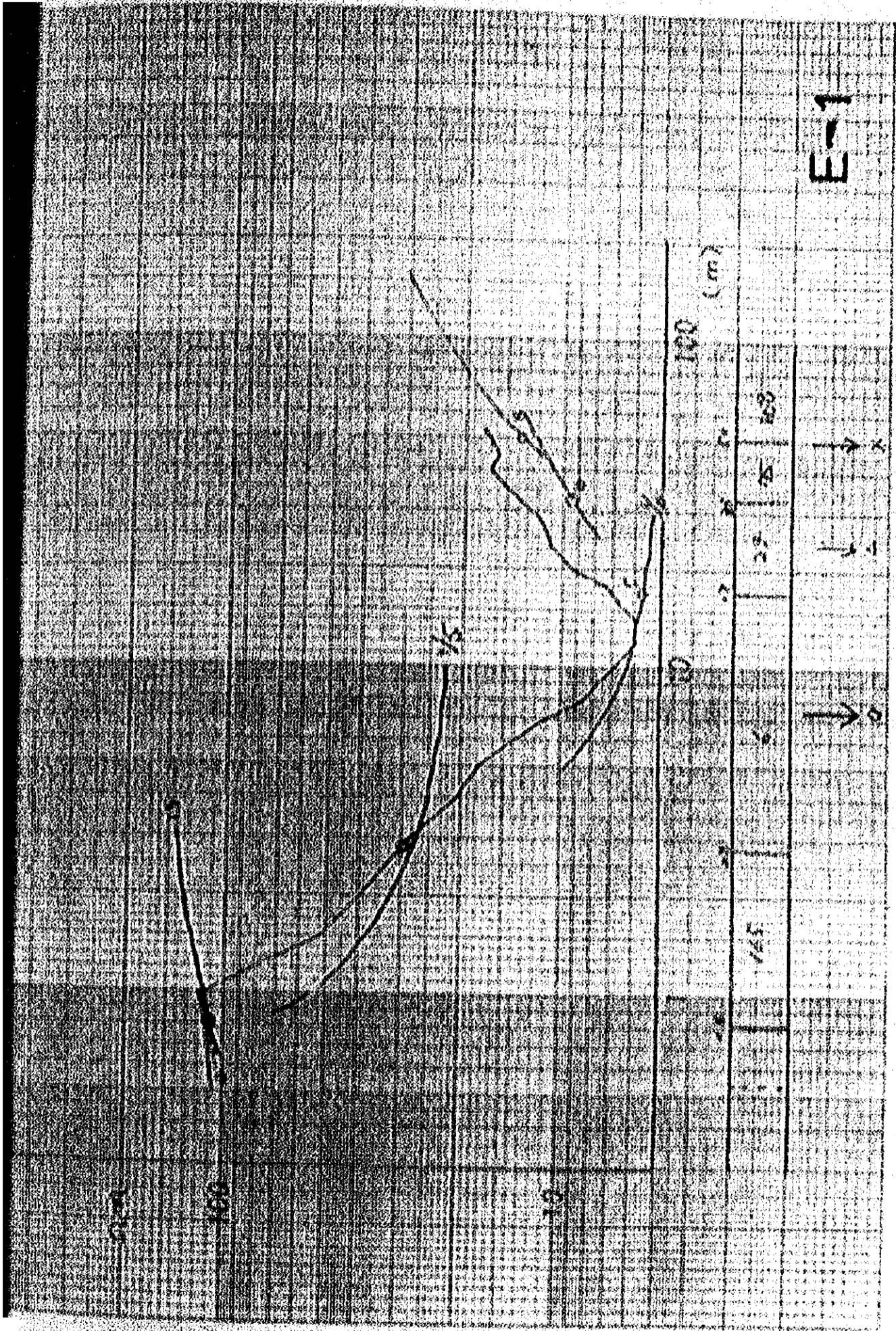
1. Electrical Prospecting

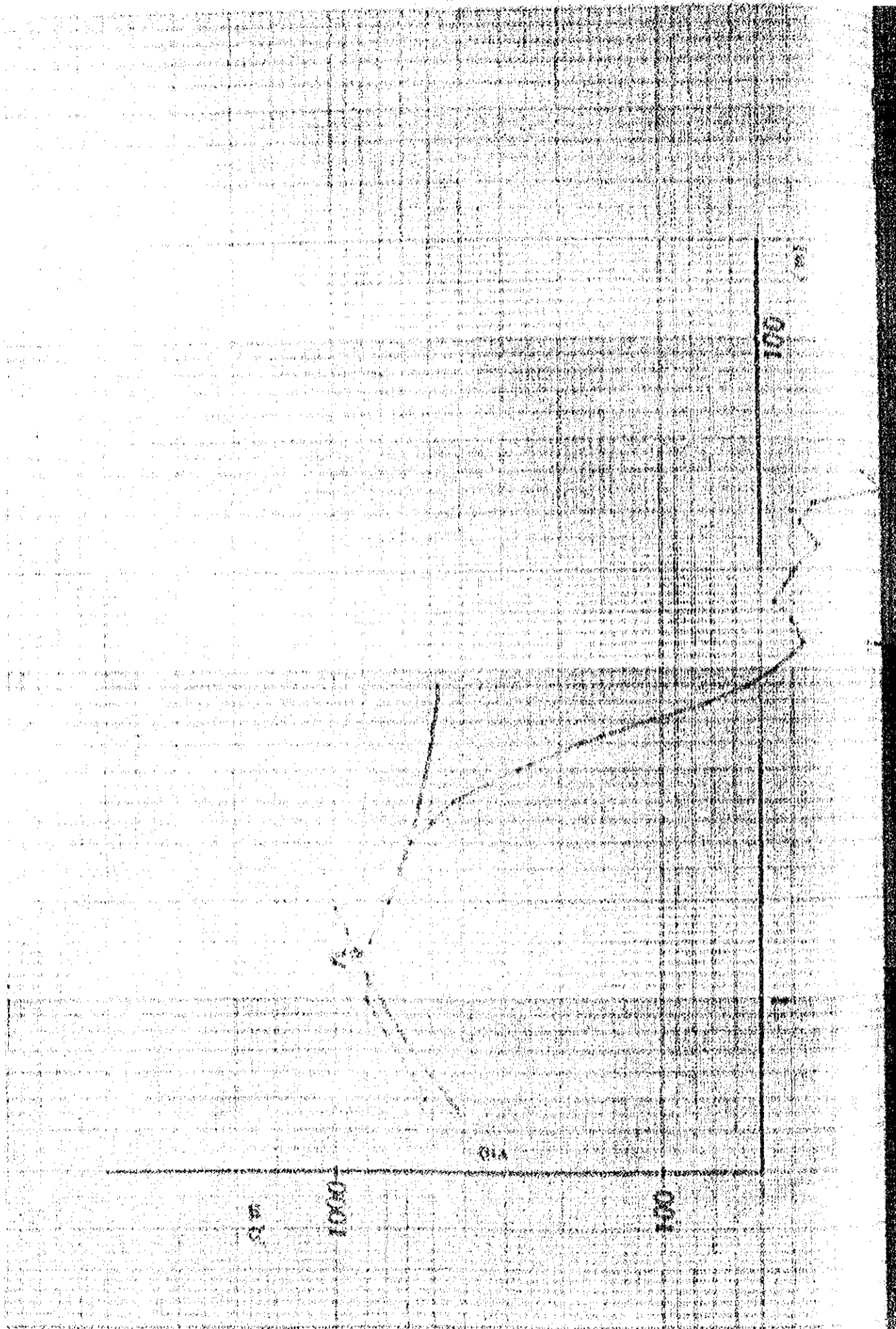
Resistivity-Depth Curves

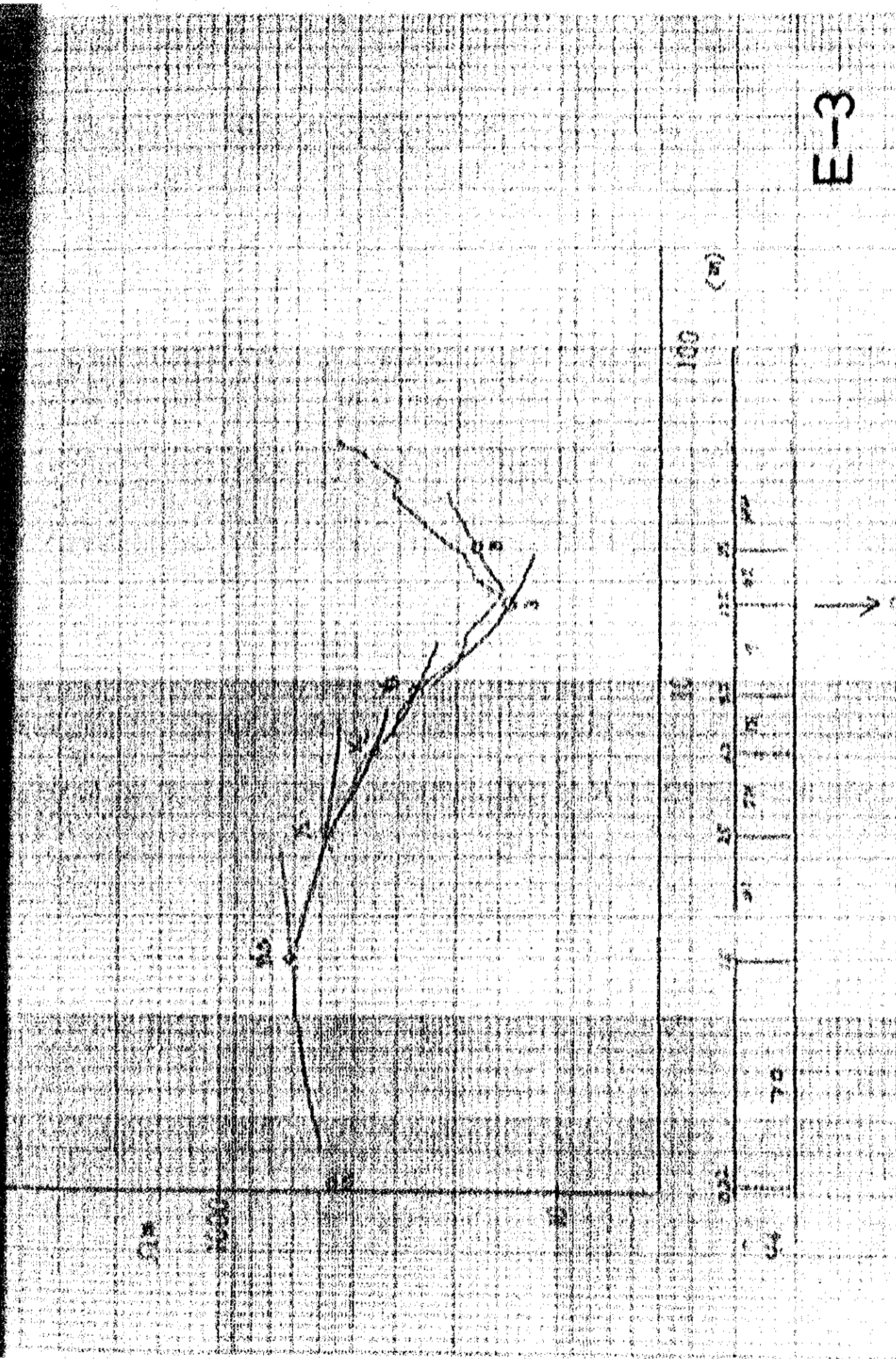
A-o Curves and Columnar Section

LEGEND

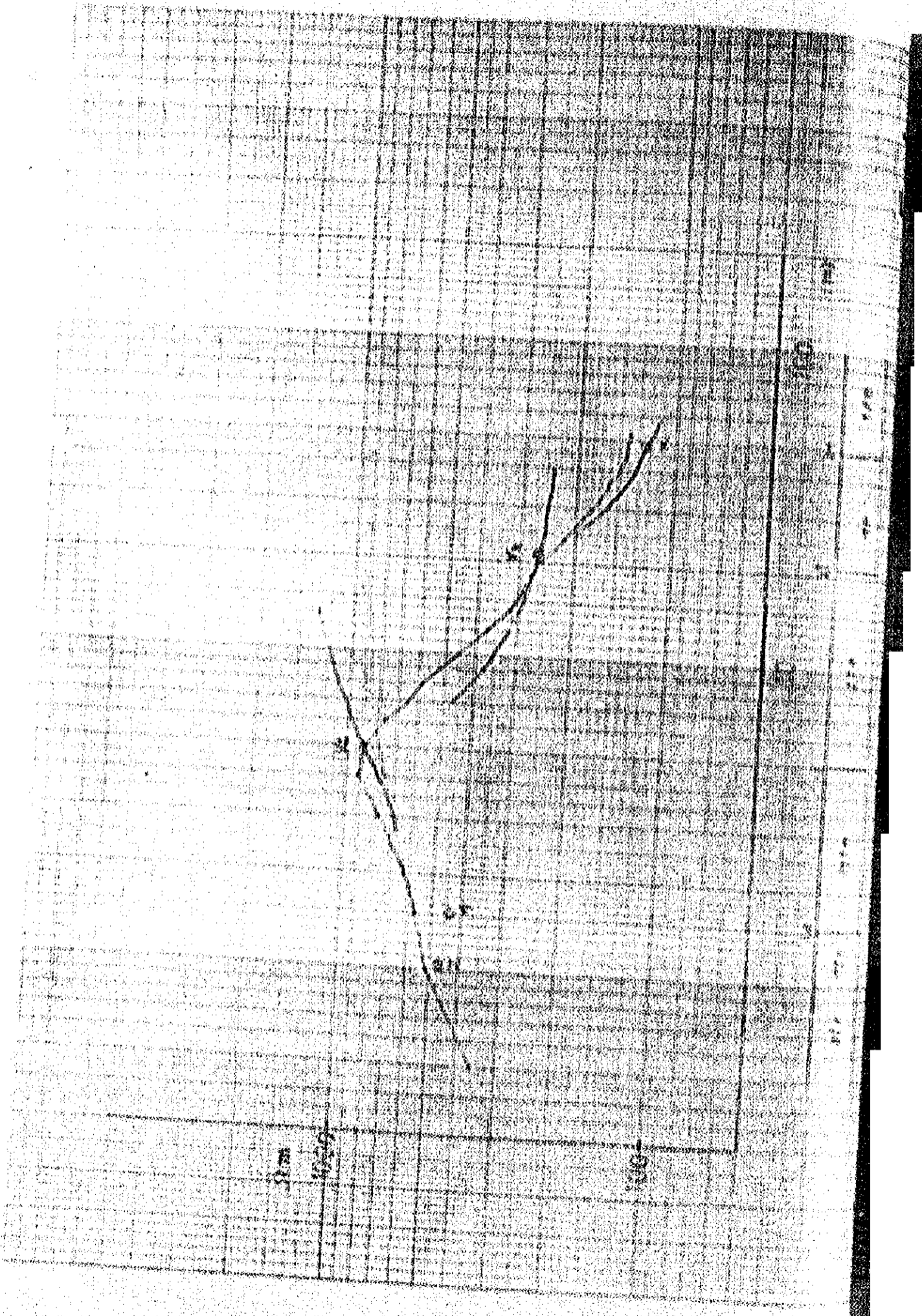








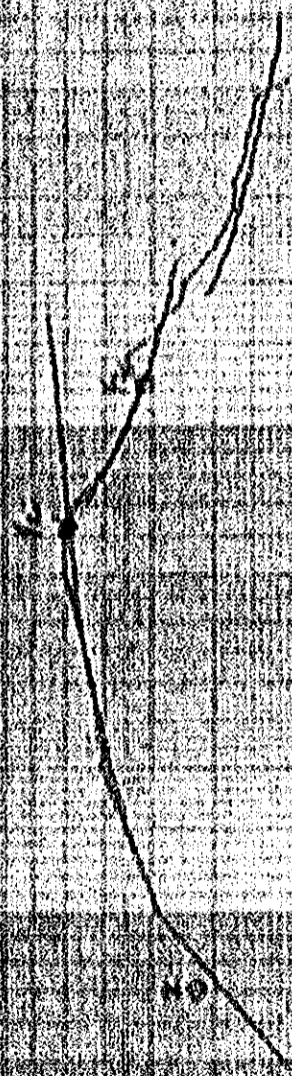
E-3



E-5

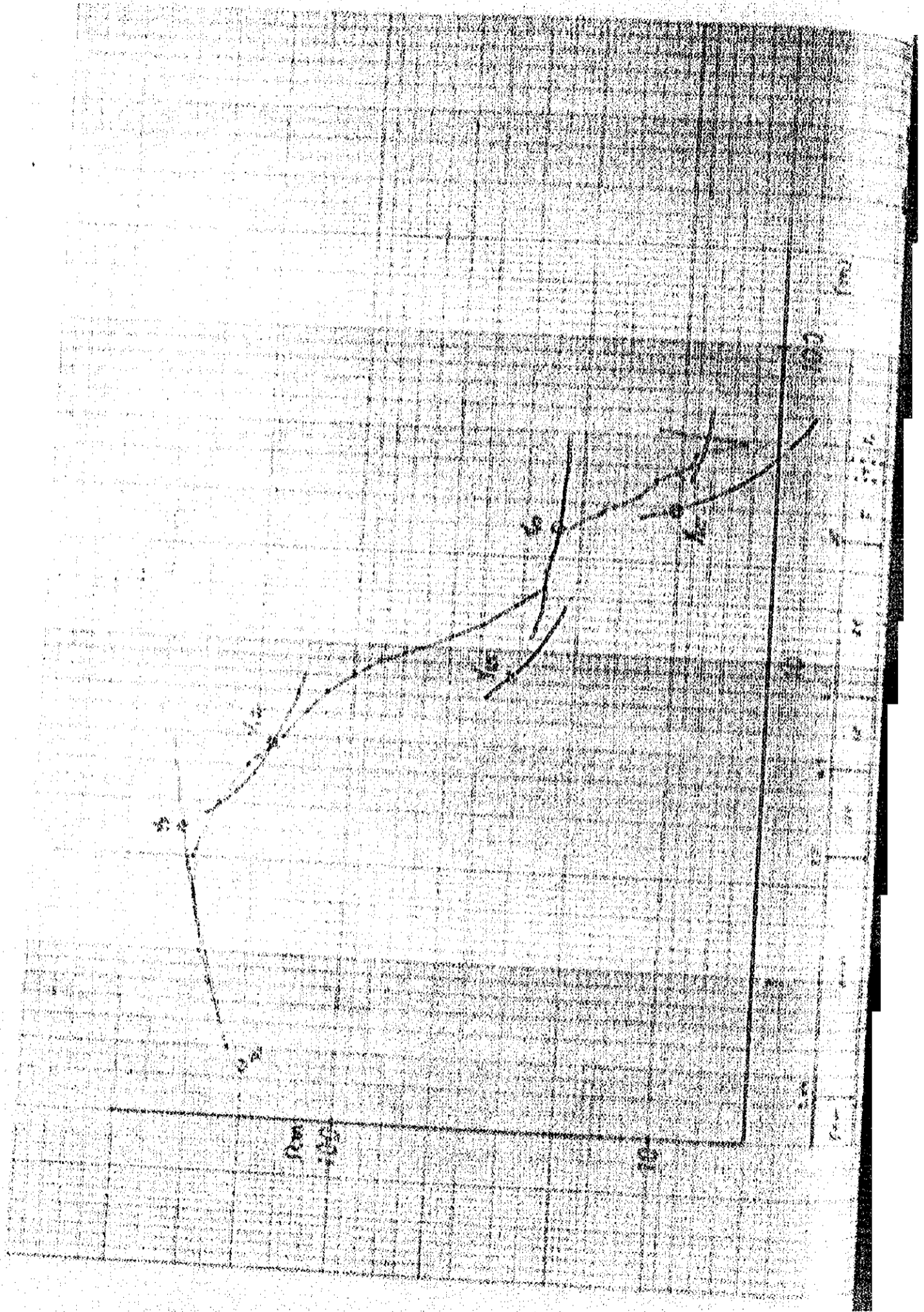
2000

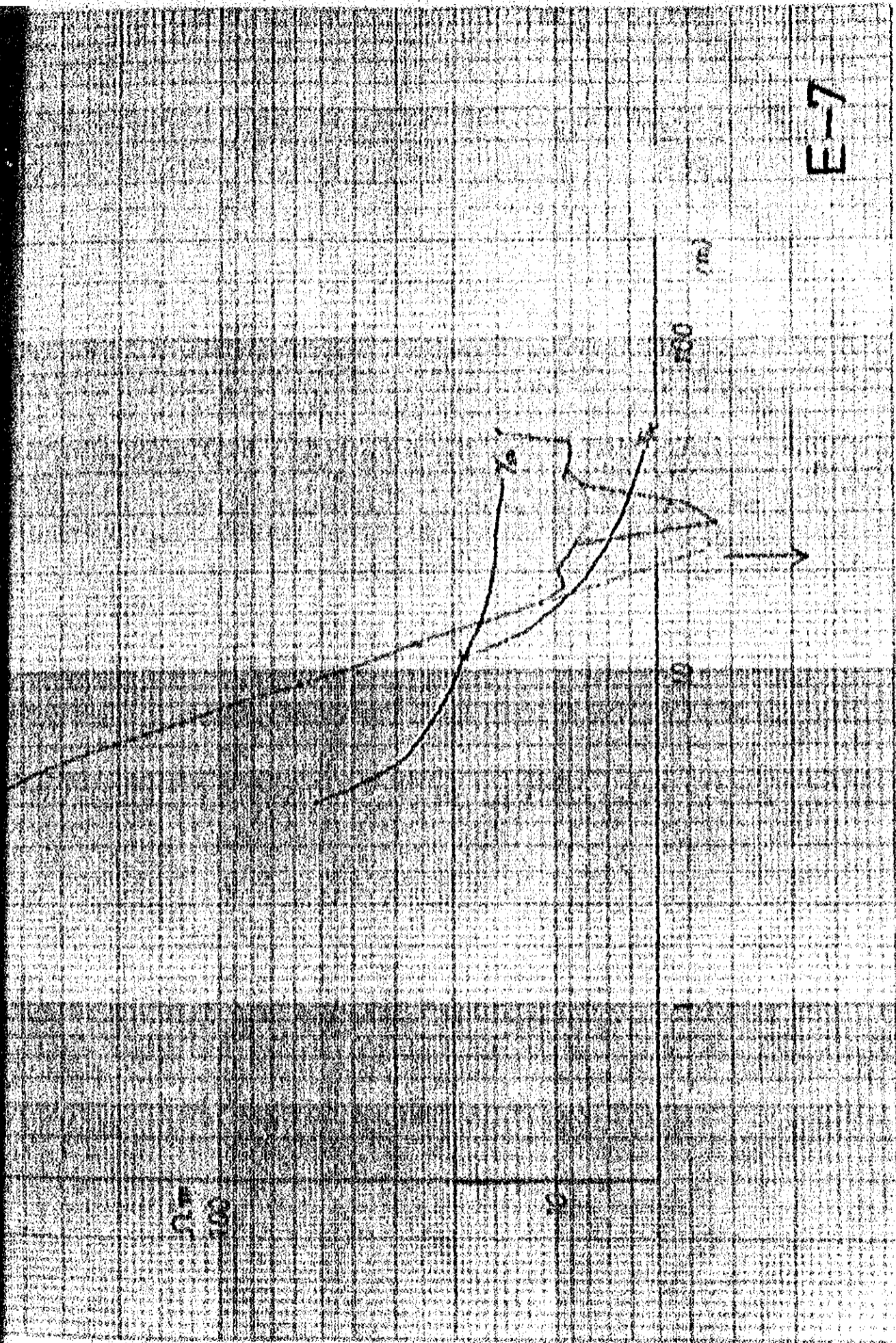
20



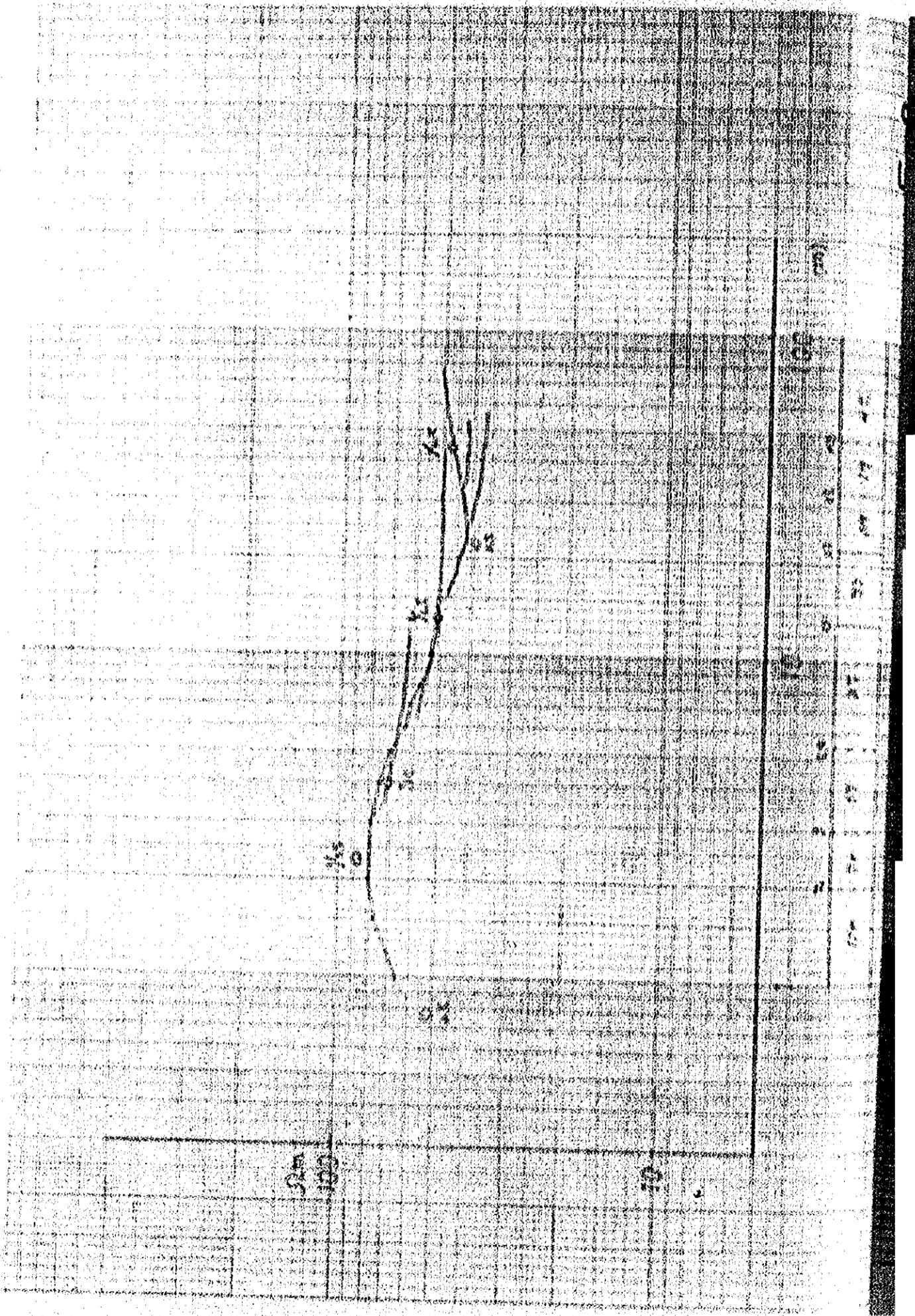
(m)	1	2	3	4	5	6	7	8	9	10
20										
30										
40										
50										
60										
70										
80										



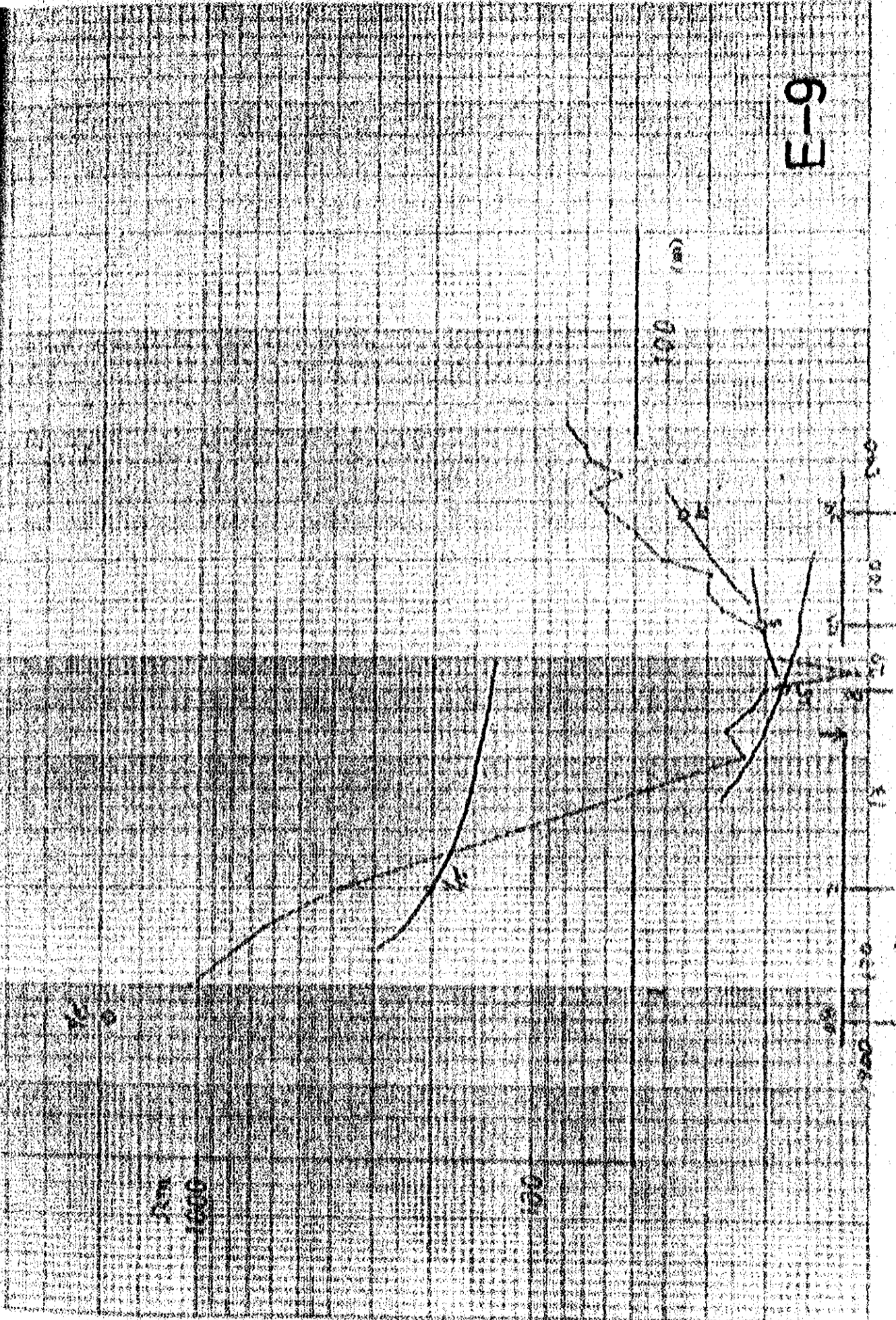


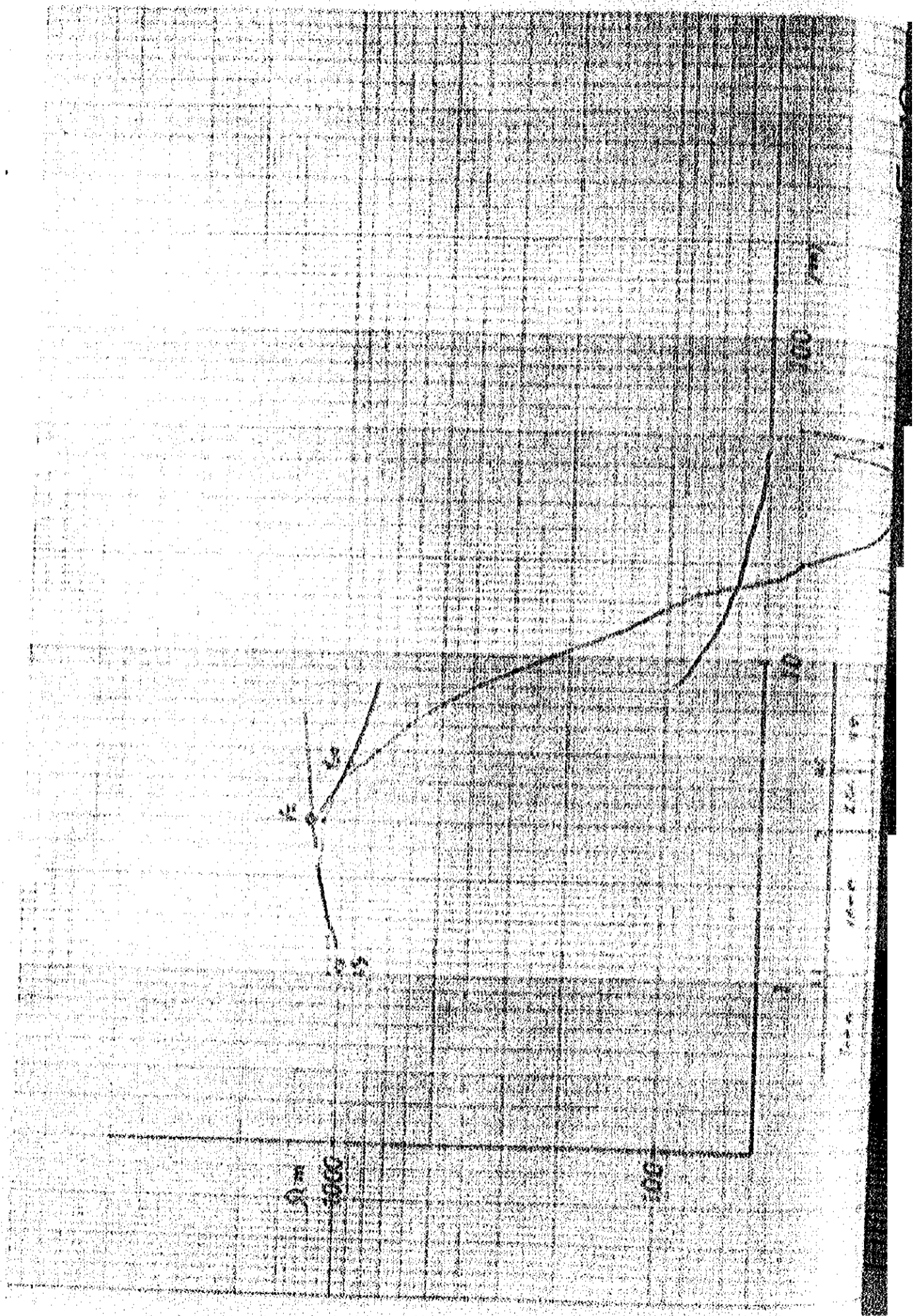


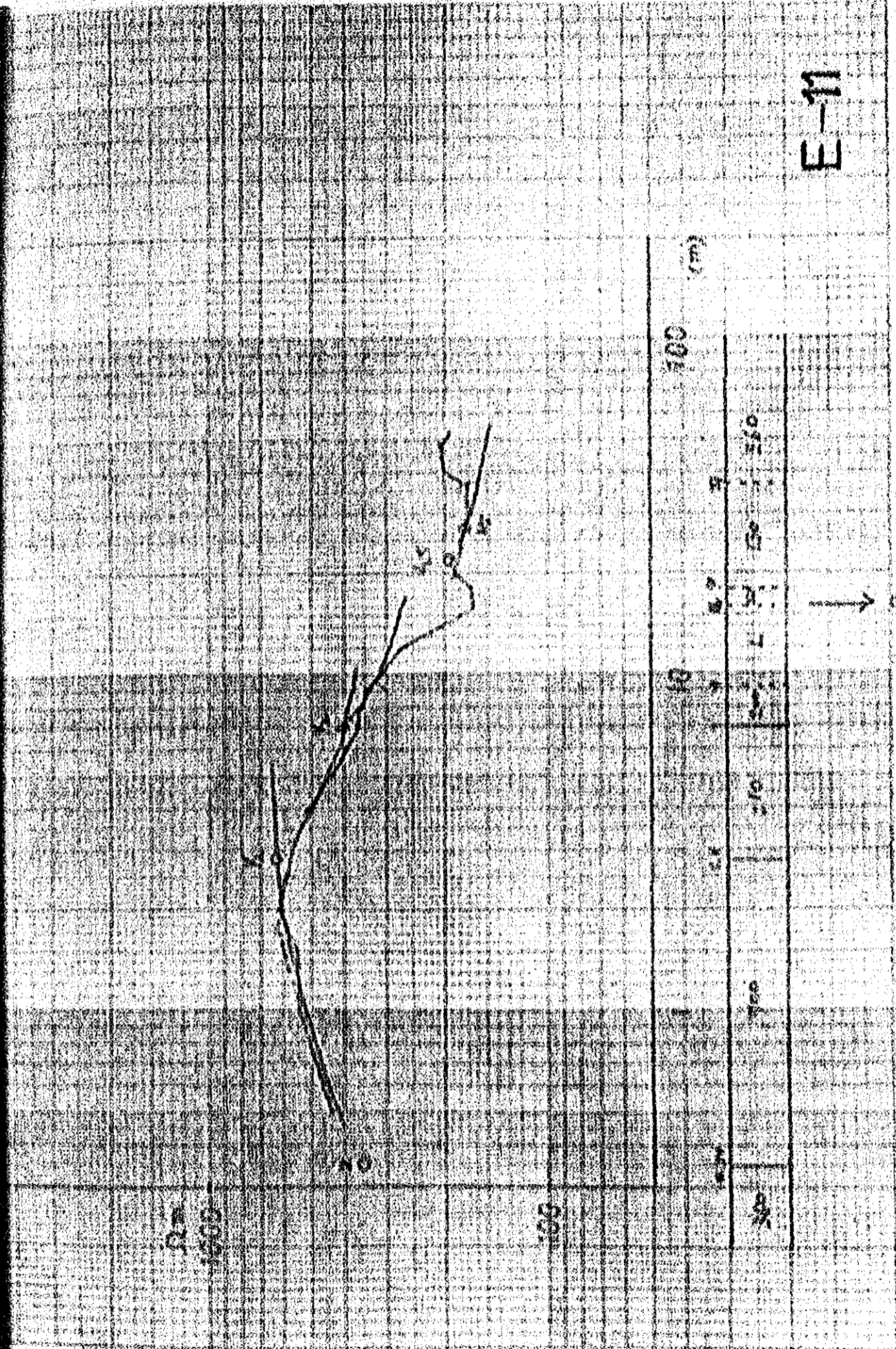
E-7



E-9

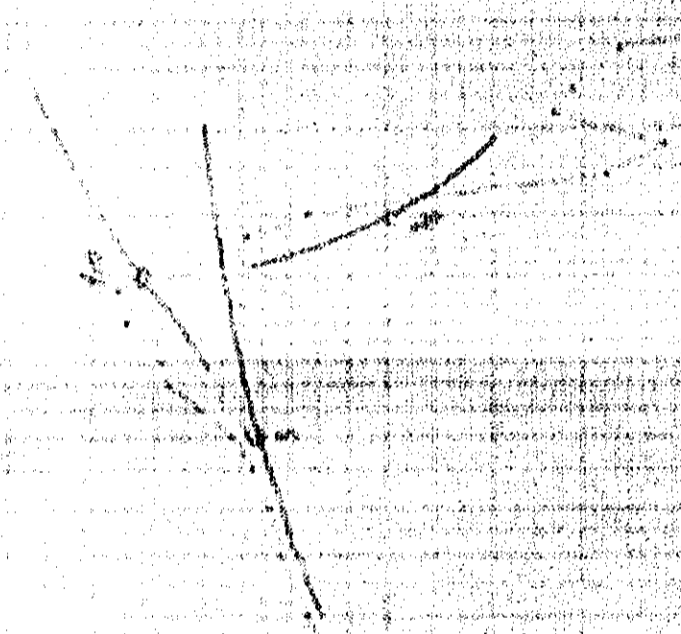






E-11

E-12

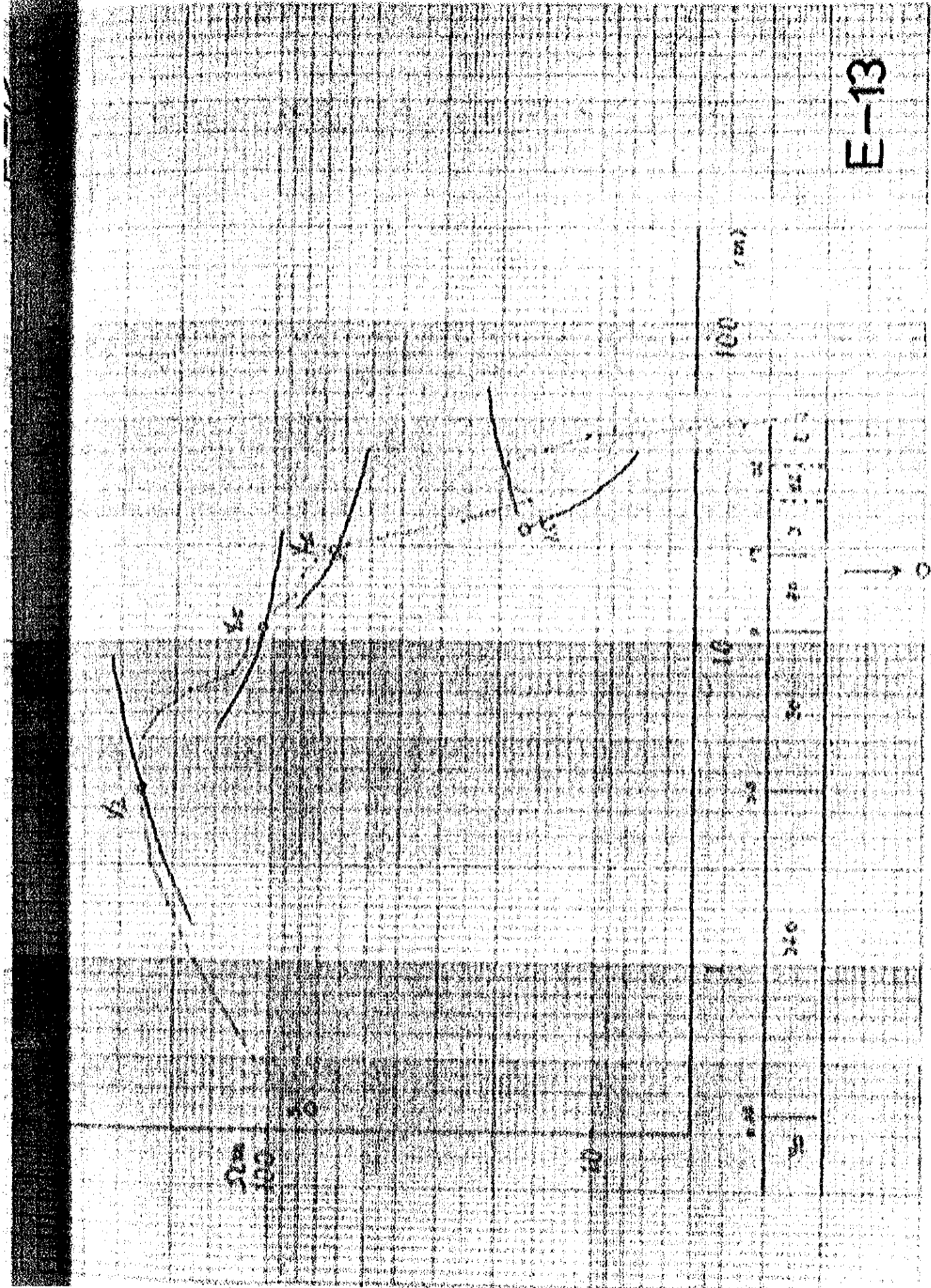


10
 20
 30
 40
 50
 60
 70
 80
 90
 100
 110
 120
 130
 140
 150
 160
 170
 180
 190
 200
 210
 220
 230
 240
 250
 260
 270
 280
 290
 300
 310
 320
 330
 340
 350
 360
 370
 380
 390
 400
 410
 420
 430
 440
 450
 460
 470
 480
 490
 500
 510
 520
 530
 540
 550
 560
 570
 580
 590
 600
 610
 620
 630
 640
 650
 660
 670
 680
 690
 700
 710
 720
 730
 740
 750
 760
 770
 780
 790
 800
 810
 820
 830
 840
 850
 860
 870
 880
 890
 900
 910
 920
 930
 940
 950
 960
 970
 980
 990
 1000

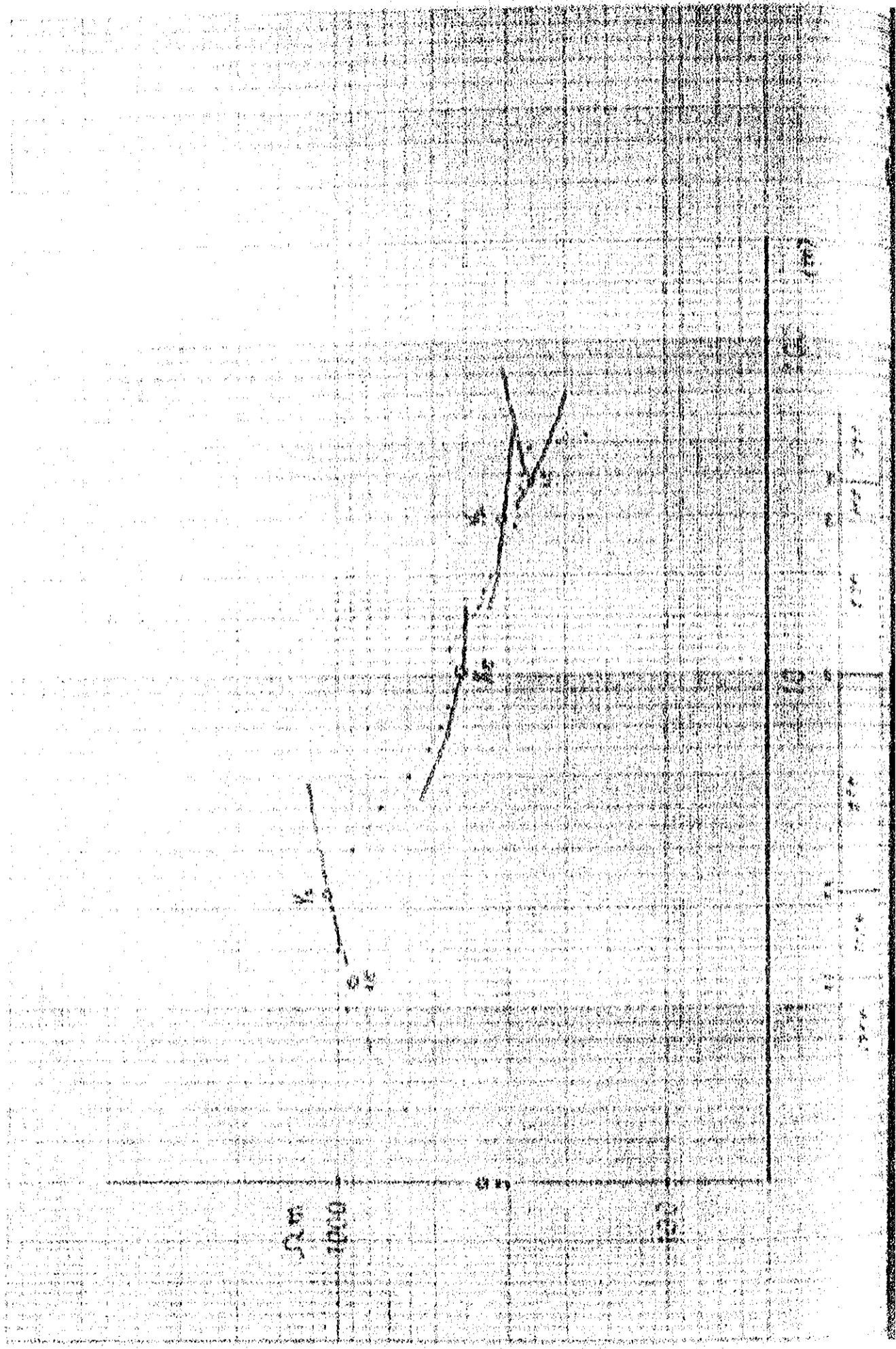
100

100

100



E-13

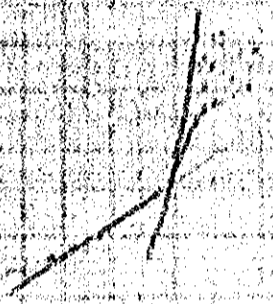




Q.A. 01

00

10



10

50

100

100

(m)

E-15