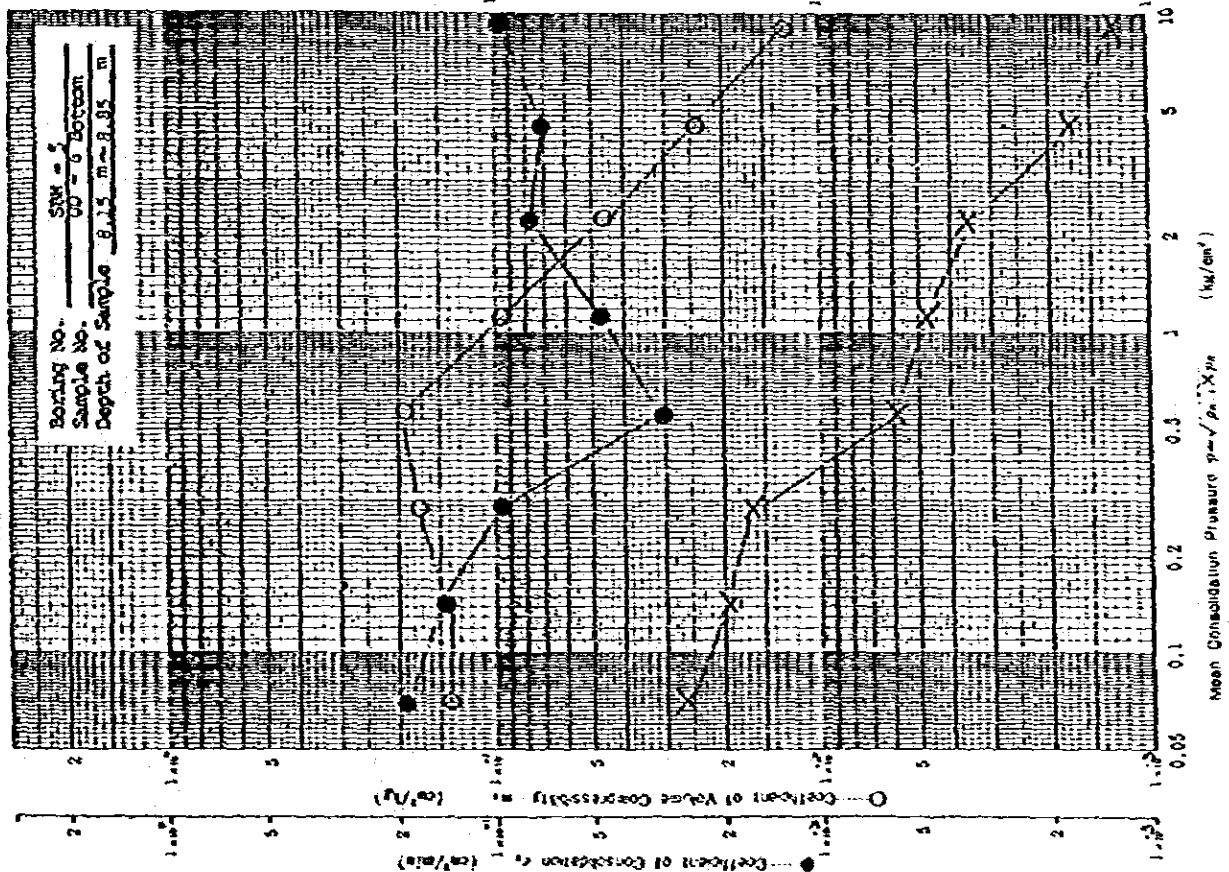
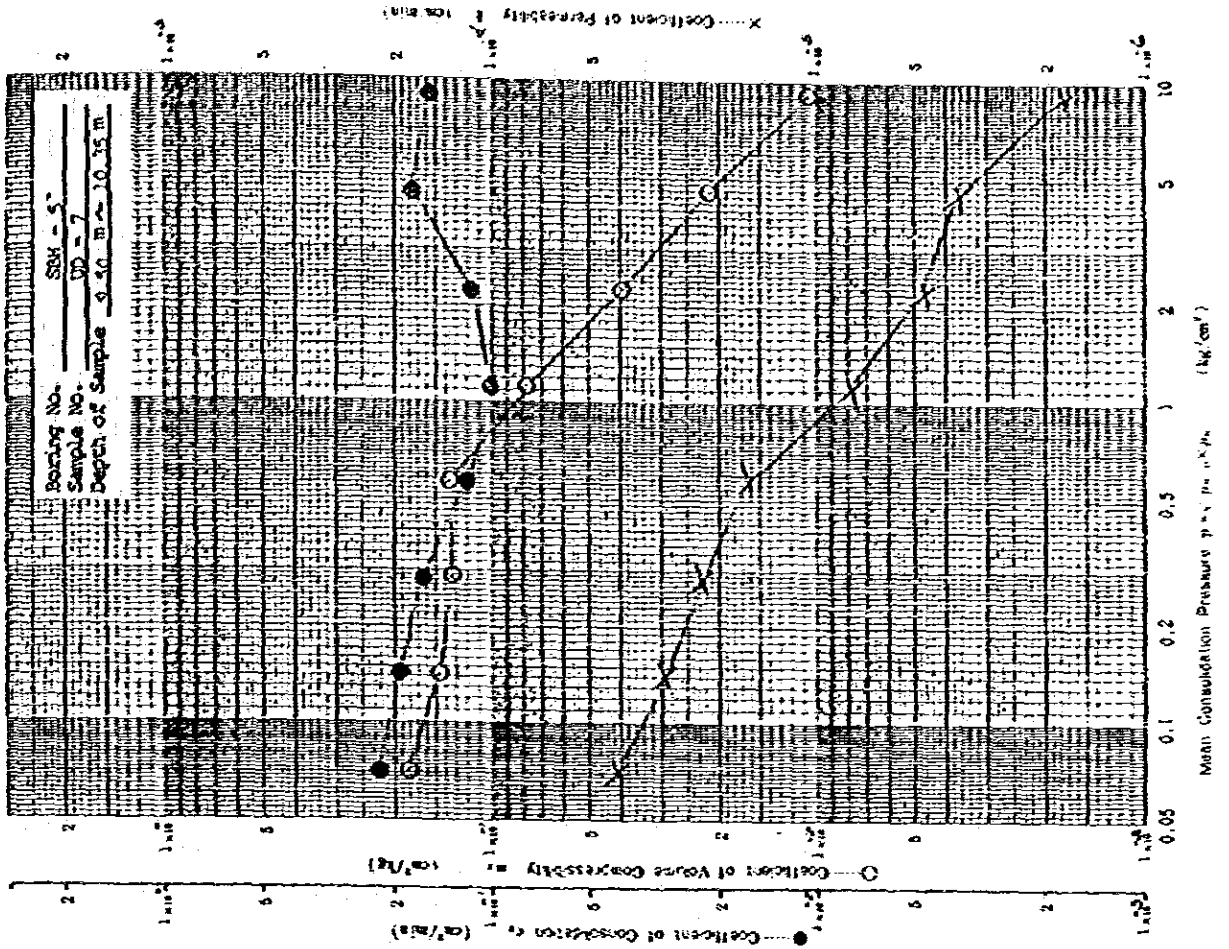


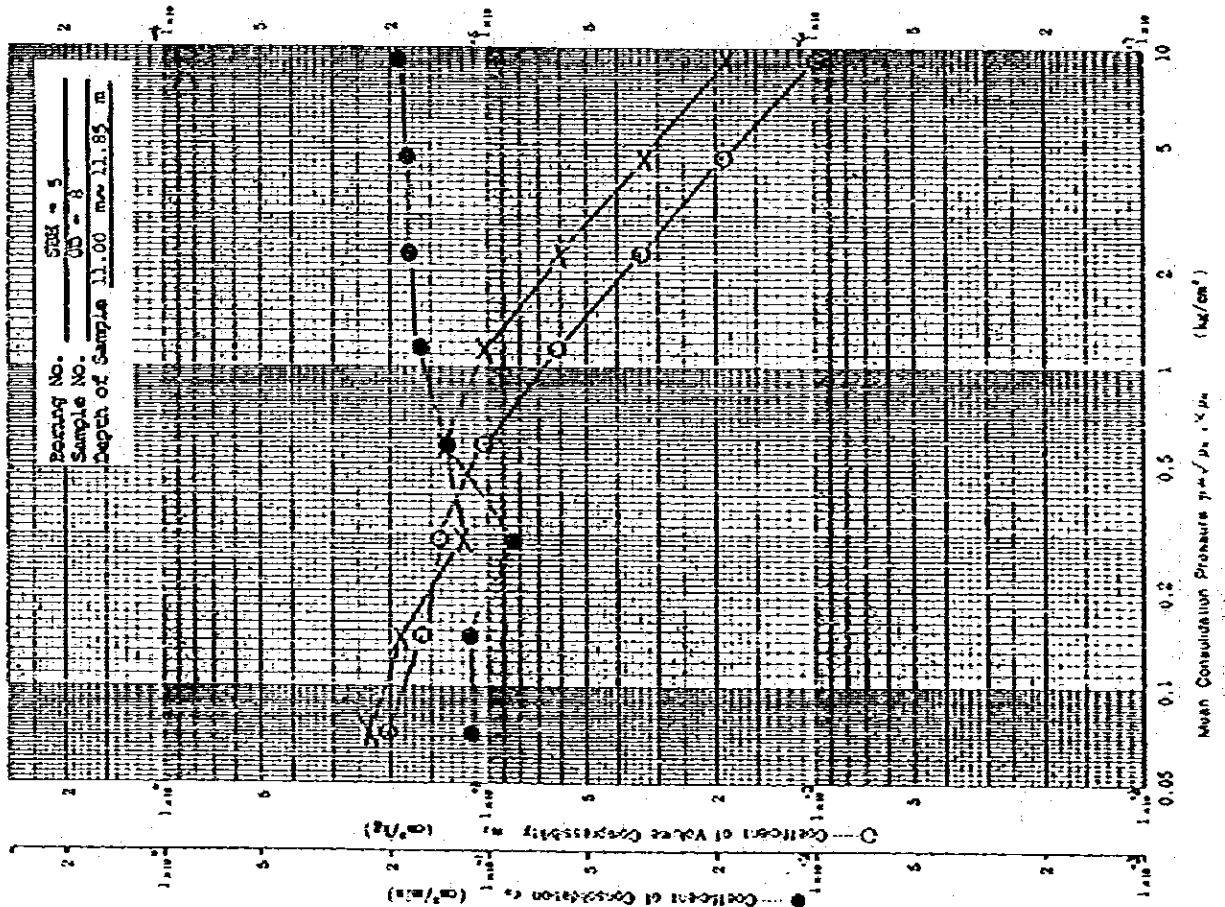
CONSOLIDATION TEST (p-Cv, mv, k, curves)



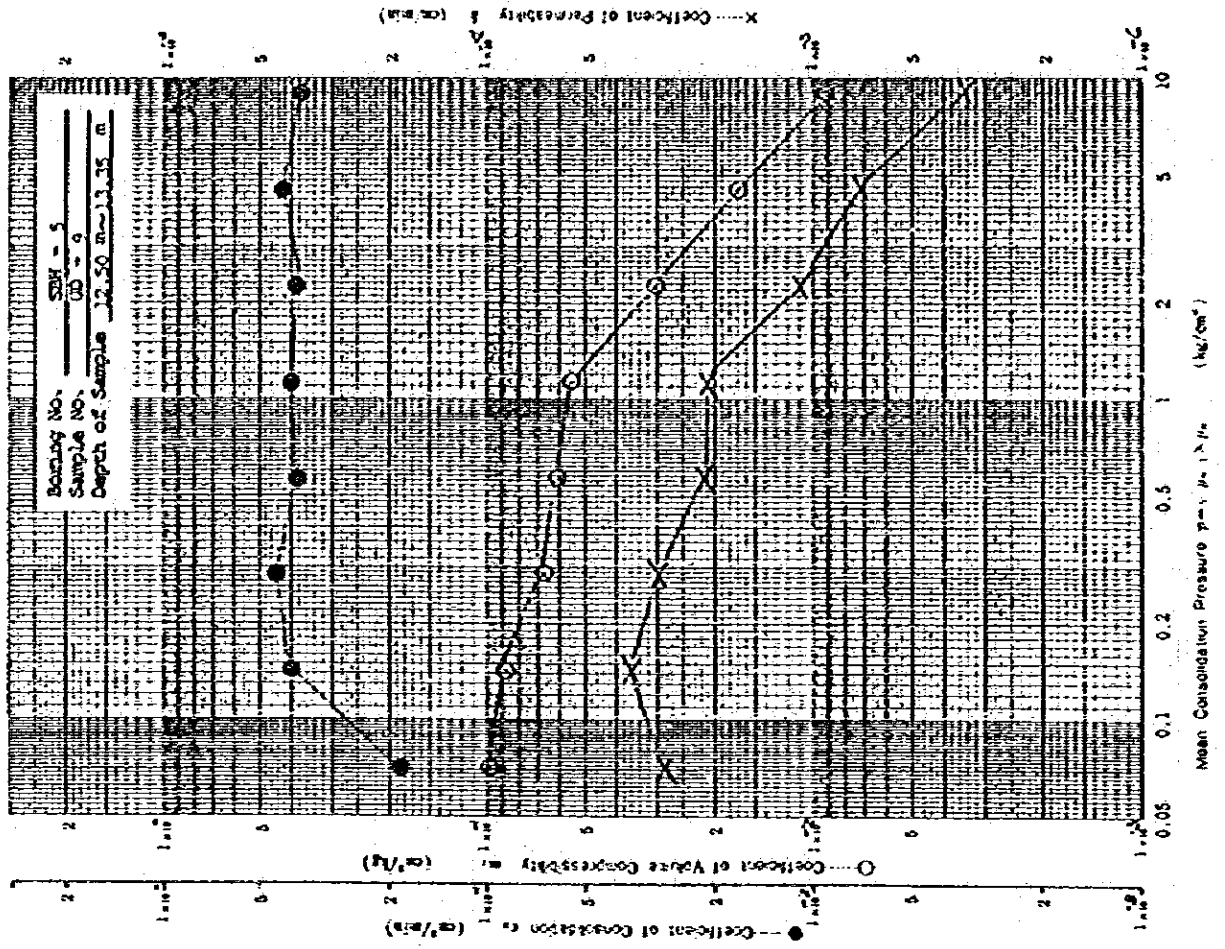
CONSOLIDATION TEST (p-Cv, mv, k, curves)



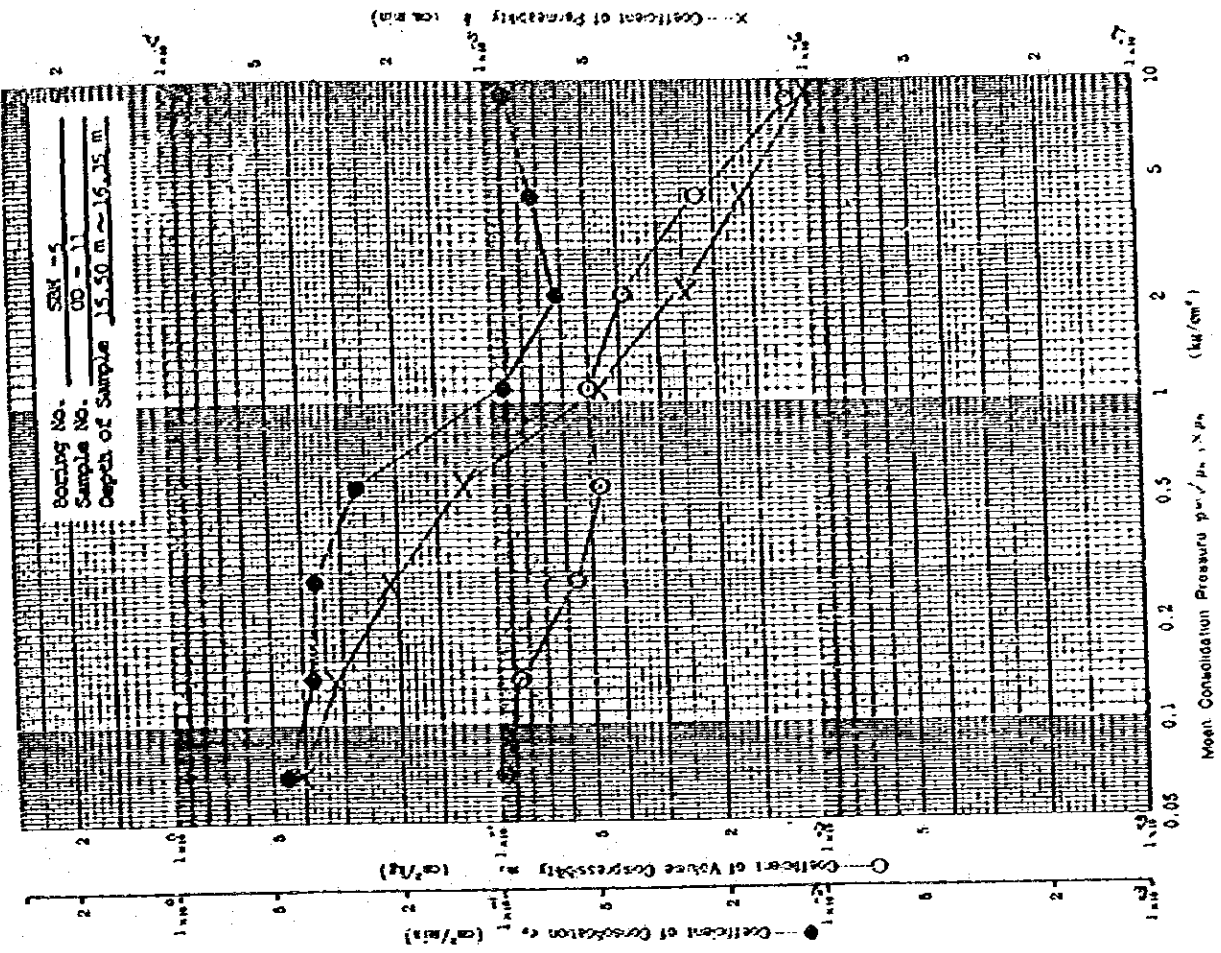
CONSOLIDATION TEST (p-Cv, mv, k, curves)



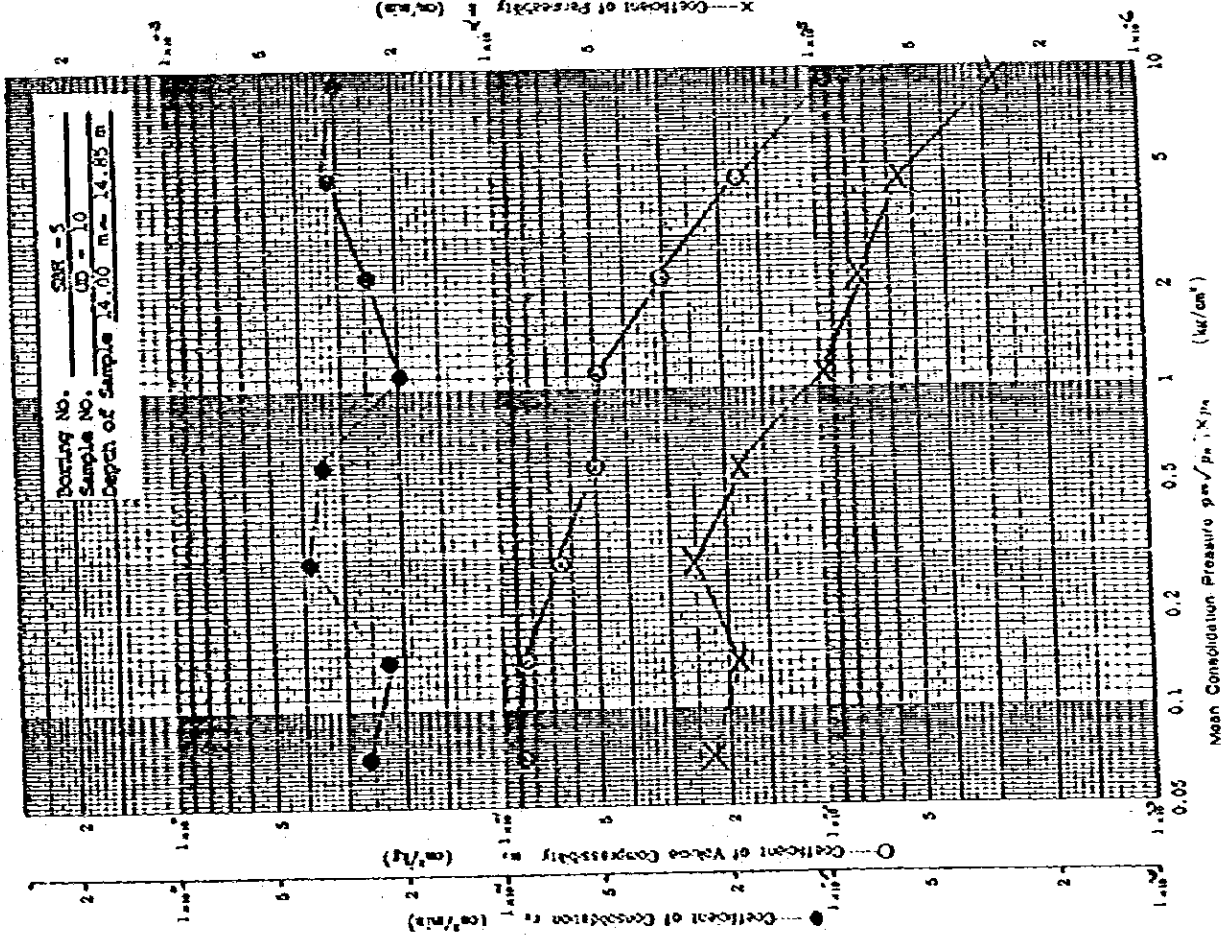
CONSOLIDATION TEST (p-Cv, mv, k, curves)



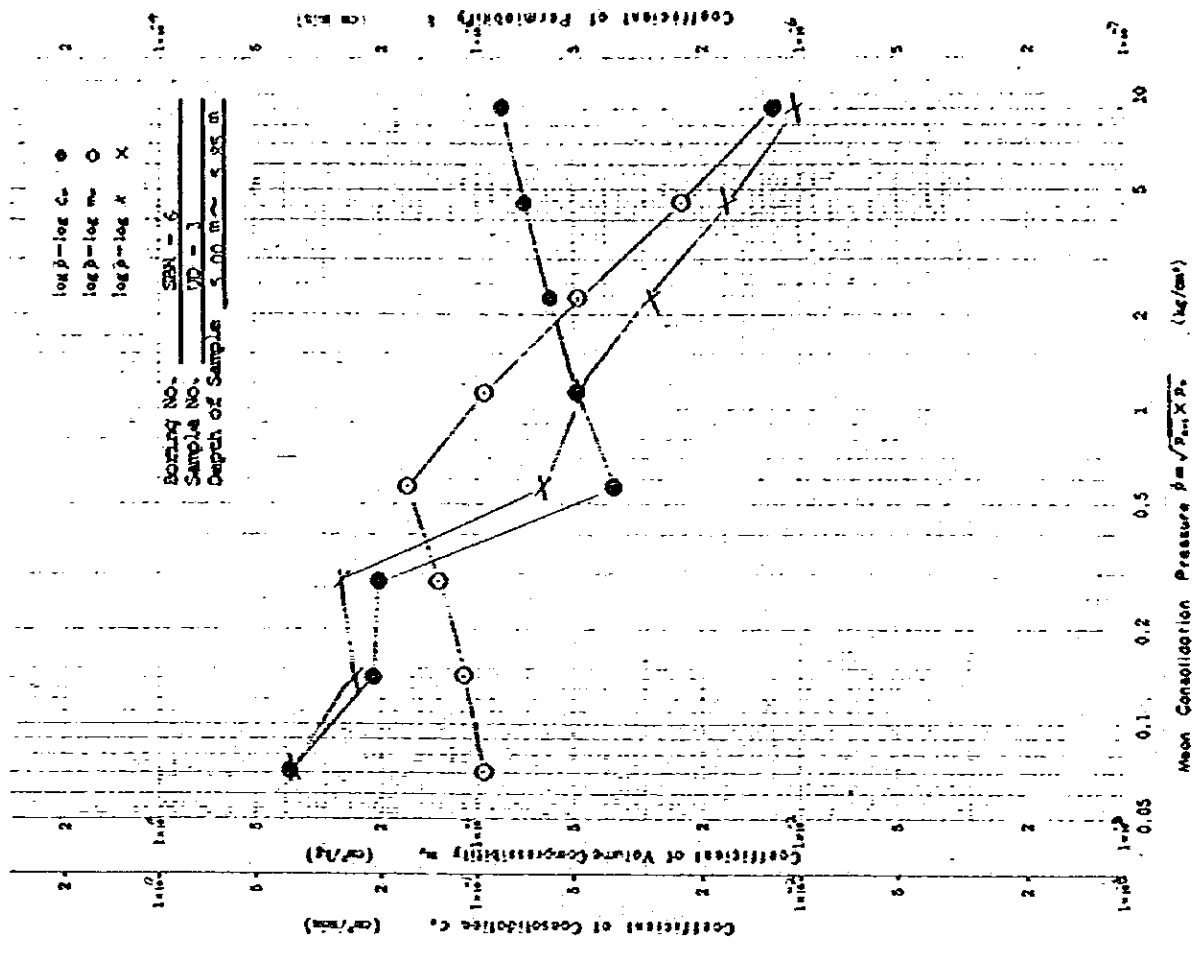
CONSOLIDATION TEST (p-Cv, mv, k, curves)



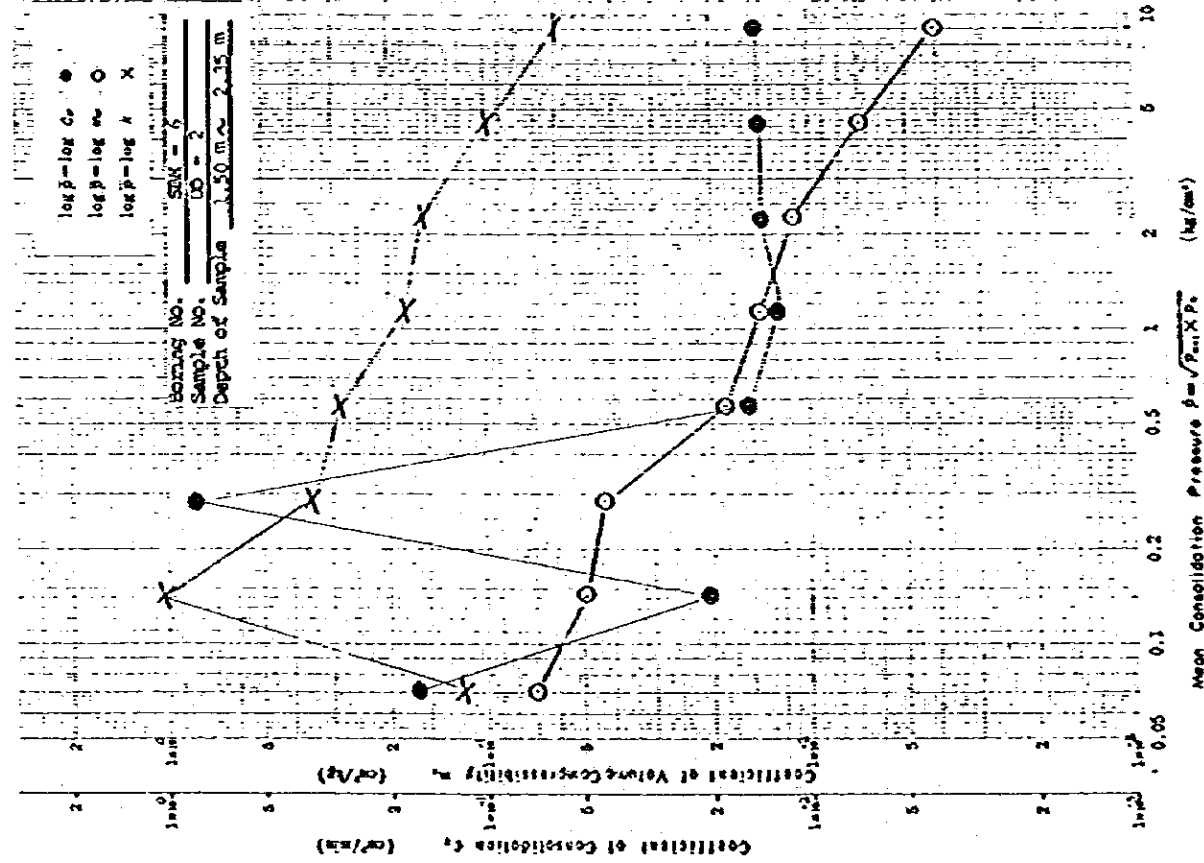
CONSOLIDATION TEST (p-Cv, mv, k, curves)



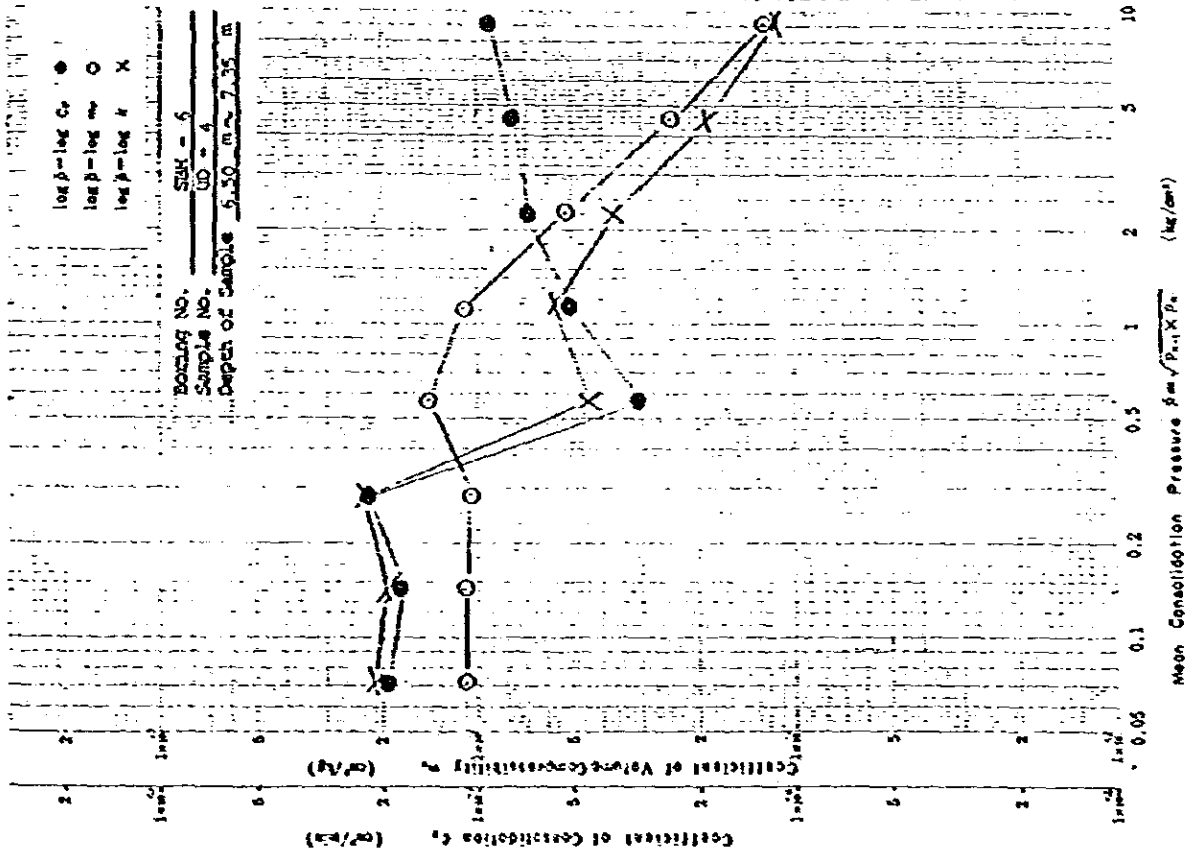
CONSOLIDATION TEST (p-Cv, mv, k, curves)



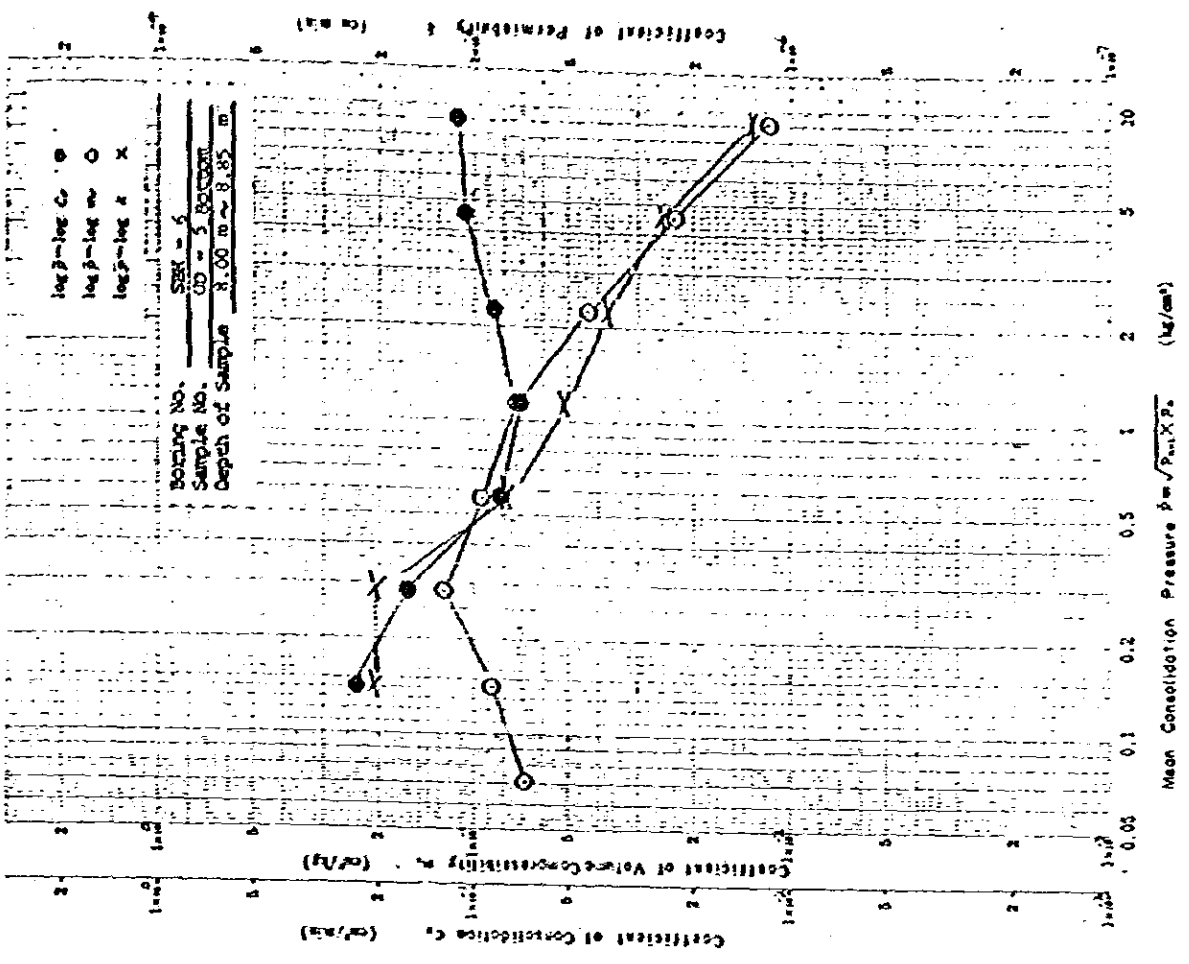
CONSOLIDATION TEST (p-Cv, mv, k, curves)



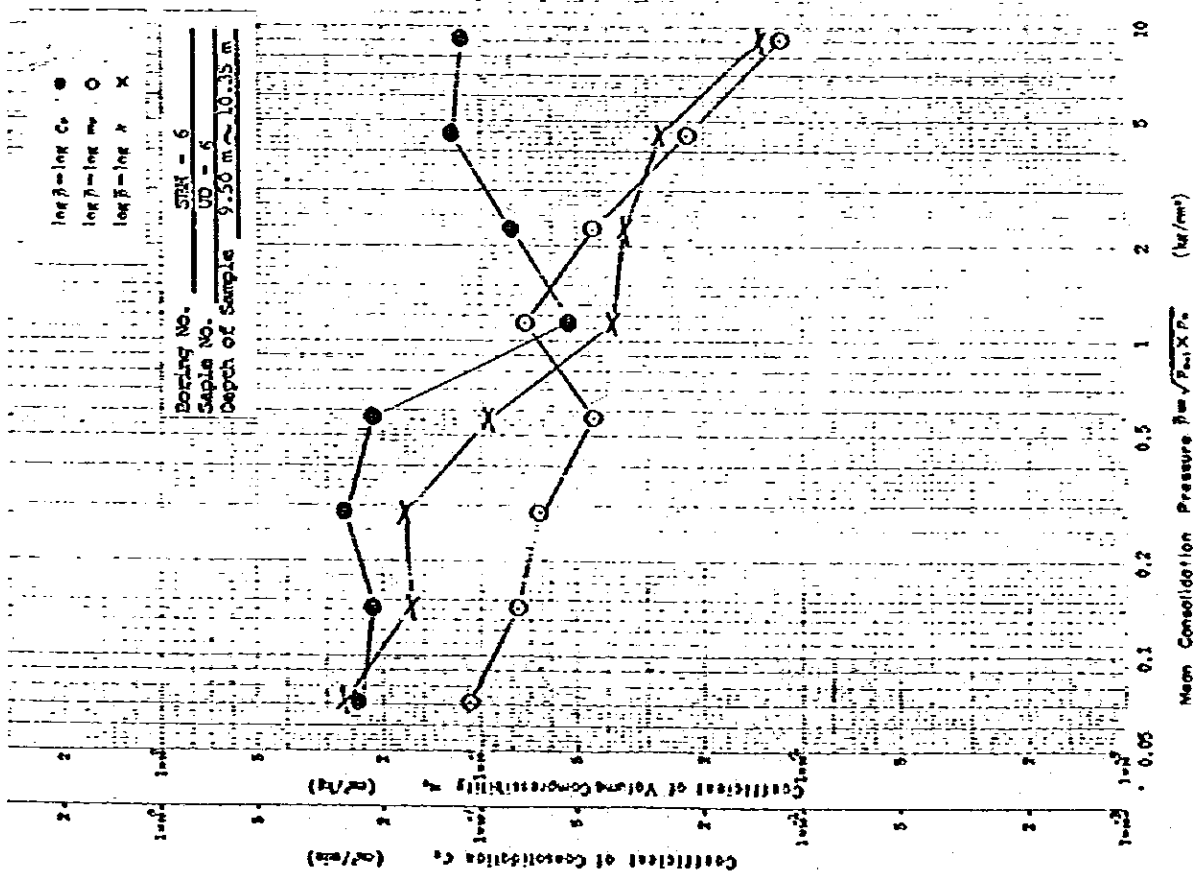
CONSOLIDATION TEST (p_v-C_v, mv, k, curves)



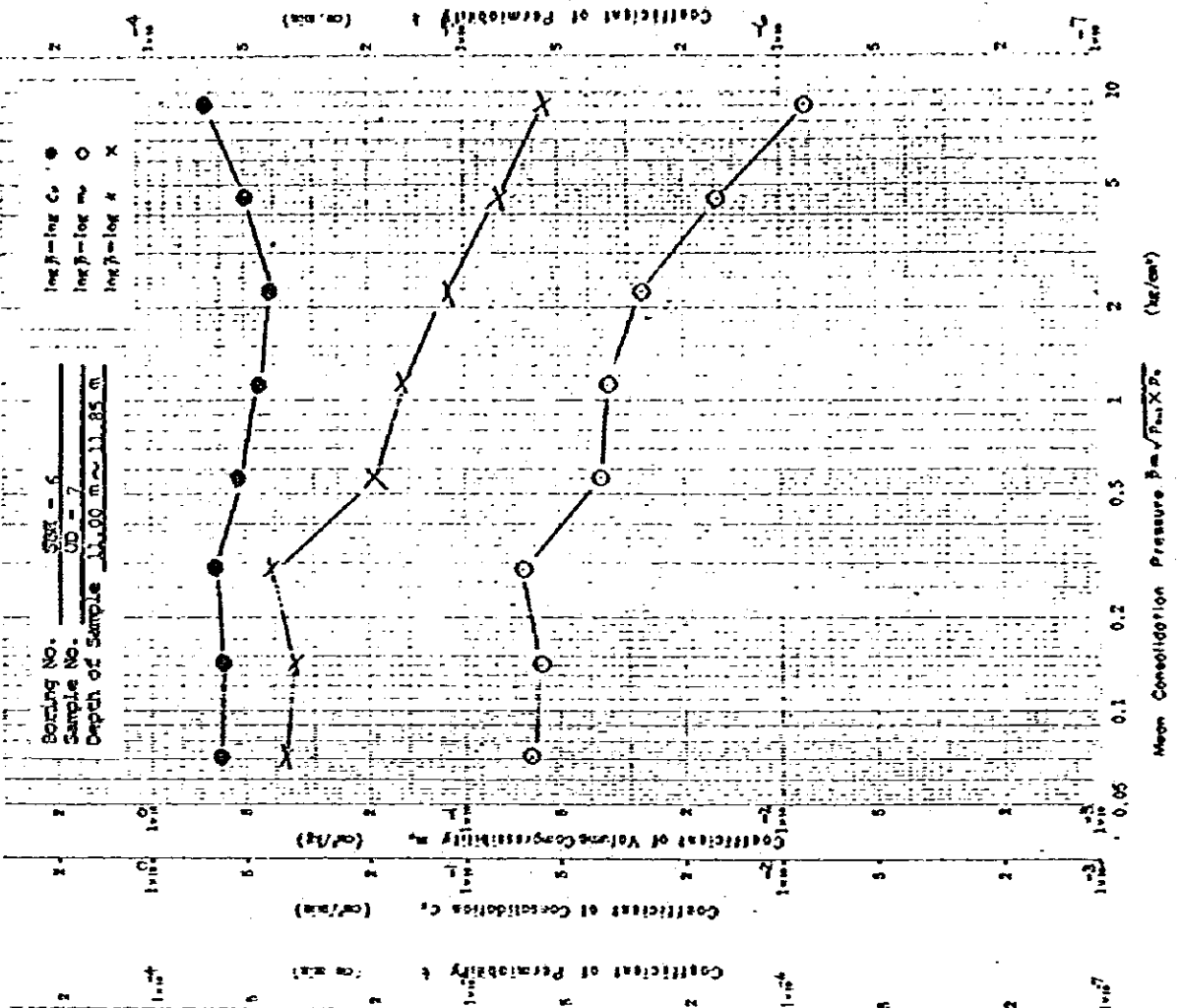
CONSOLIDATION TEST (p_v-C_v, mv, k, curves)



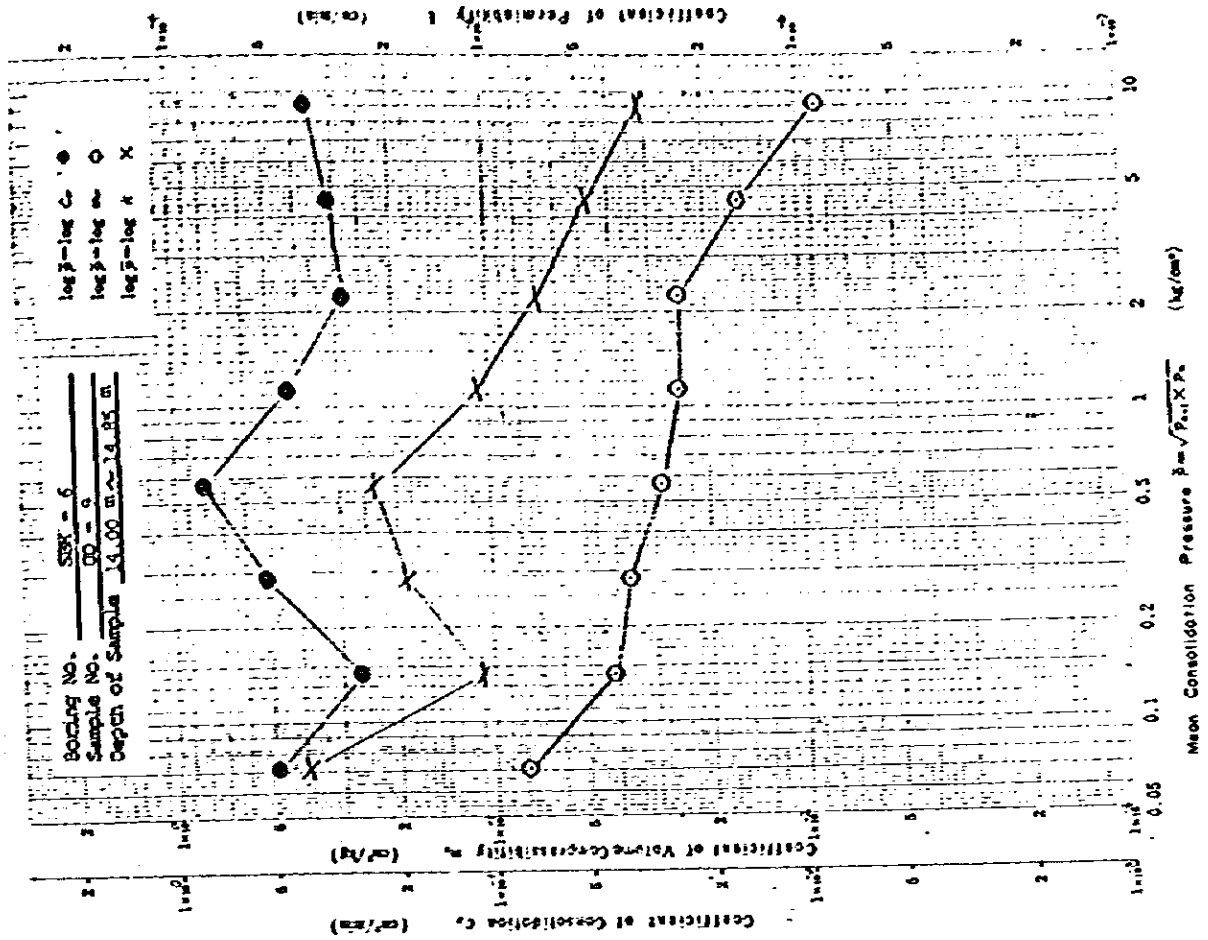
CONSOLIDATION TEST (p-Cv, mv, k, curves)



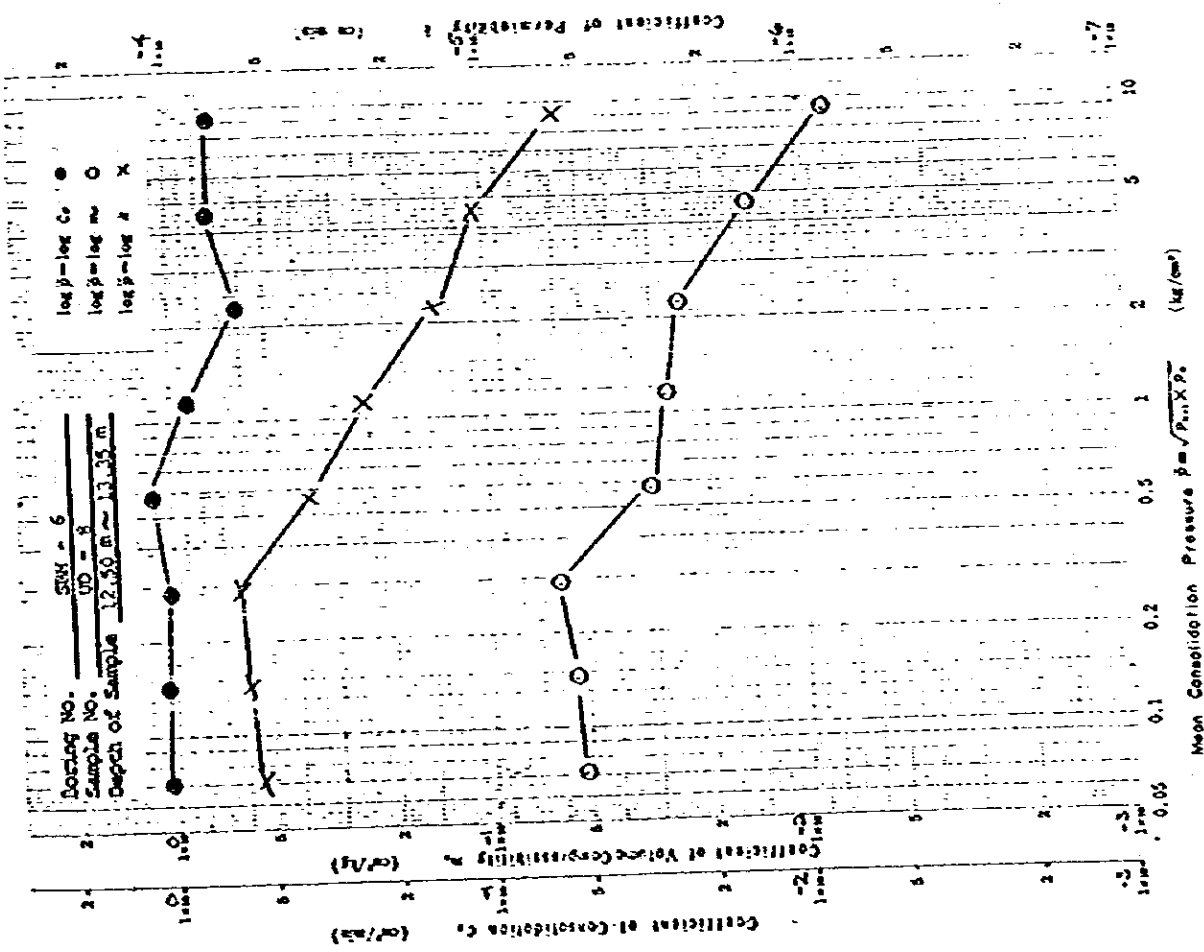
CONSOLIDATION TEST (p-Cv, mv, k, curves)



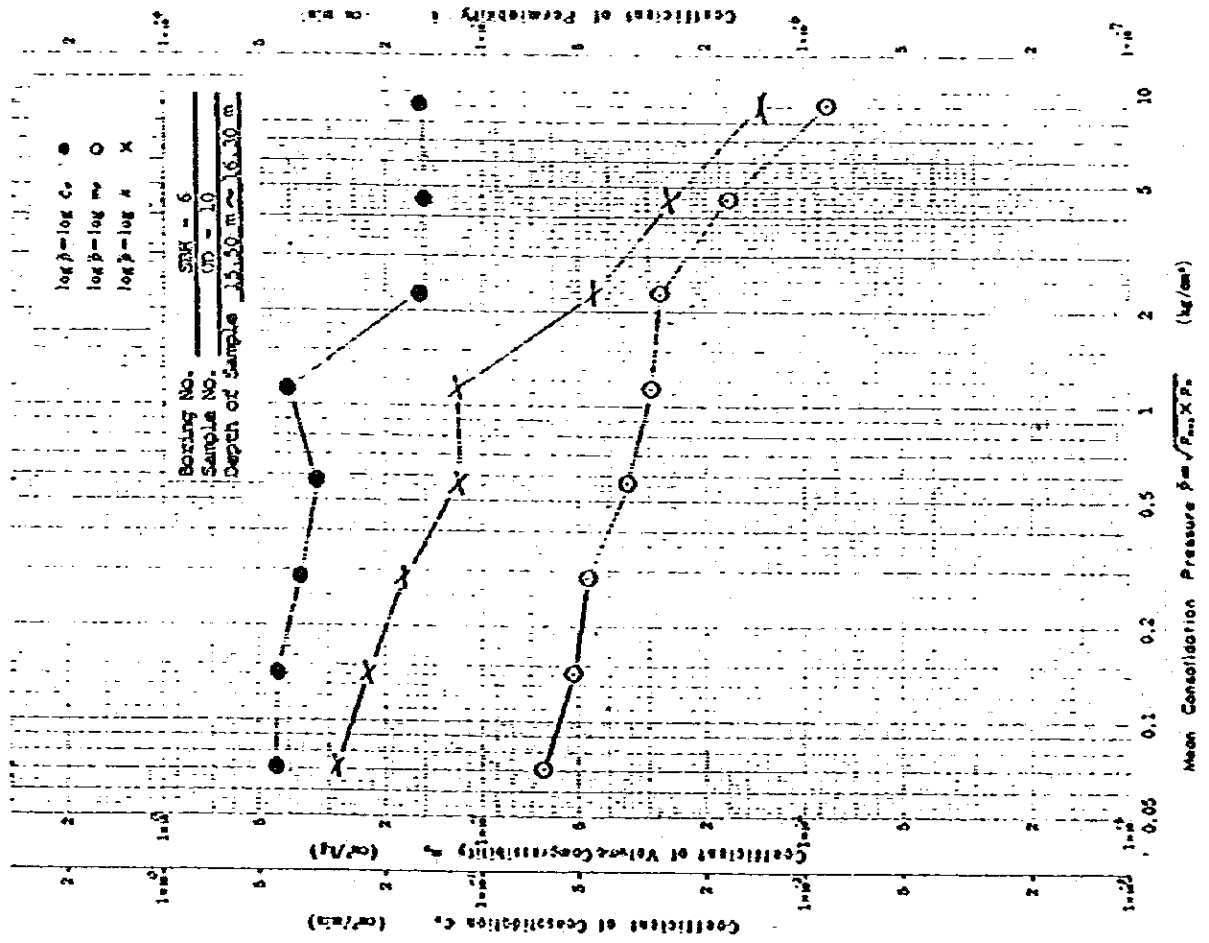
CONSOLIDATION TEST (p-Cv, mv, k, curves)



CONSOLIDATION TEST (p-Cv, mv, k, curves)



CONSOLIDATION TEST (p-Cv, mv, k, curves)



Results of Chemical Stabilization Tests (1)
(Using Lime)

Site	Line (%)	W/C (%)	Curing Period (days)	Specimen No.	Strain at Failure (%)	Unconfined Compressive Strength (kg/cm ²)		
Senev	5	70	3	1	10.6	0.860	0.870	
				2	15.0	0.880		
				3	12.0	0.870		
			7	4	8.9	1.149	1.136	
				5	10.2	1.075		
				6	8.4	1.185		
			28	7	4.1	1.930	1.946	
				8	2.7	1.970		
				9	4.4	1.920		
		90	3	10	15.0	0.385	0.379	
				11	15.0	0.368		
				12	15.0	0.385		
			7	13	15.0	0.484	0.474	
				14	13.1	0.425		
				15	15.0	0.513		
			28	16	3.7	0.884	0.997	
				17	6.8	1.133		
				18	5.4	0.982		
		10	70	3	19	1.95	1.990	1.880
					20	7.0	1.590	
					21	8.0	2.060	
				7	22	6.5	2.044	2.172
					23	7.5	2.263	
					24	7.5	2.208	
			28	25	3.7	3.170	3.117	
				26	3.0	2.882		
				27	2.5	3.298		
			90	3	28	15.0	0.719	0.679
					29	15.0	0.645	
					30	15.0	0.674	
				7	31	14.2	0.760	0.750
					32	13.4	0.770	
					33	11.0	0.720	
		28		34	4.3	1.445	1.458	
				35	5.0	1.470		

**Results of Chemical Stabilization Tests (2)
(Using Cement)**

Site	Cement (%)	W/C (%)	Curing Period (days)	Specimen No.	Strain at Failure (%)	Unconfined Strength	Compressive (kg/cm ²)
S e n t u l	5	70	3	36	2.3	1.070	1.210
				37	1.6	0.690	
				38	1.9	1.350	
			7	39	2.1	1.755	1.423
				40	2.3	1.430	
				41	1.7	1.085	
			28	42	2.2	2.475	2.243
				43	1.6	2.280	
				44	2.2	1.975	
		90	3	45	2.8	0.895	0.862
				46	2.3	0.885	
				47	2.7	0.805	
			7	48	2.8	1.080	
				49	2.4	0.920	
				50	2.2	1.030	
	28		51	0.60	1.285	0.950	
			52	1.90	0.750		
			53	1.70	0.815		
	10	70	3	54	2.4	2.500	2.320
				55	2.2	1.200	
				56	2.6	2.140	
			7	57	3.0	2.435	2.198
				58	4.0	2.450	
				59	2.5	1.710	
		28	60	2.0	3.333	2.789	
			61	2.0	2.245		
			62	3.0	1.080		1.050
90		3	63	1.8	1.020		
			64	3.5	1.270		
			65	1.5	0.970	1.128	
7	66	2.3	1.145				
	67	2.9	1.730				
	28	68	2.9	1.895	1.747		
69		2.2	1.615				

Unconfined Compression Test on a Rock Core Sample

Location	Sub-section A"-B						Sub-section B-A				
	1	2	3	4	5	6	1	2	3	4	
Specimen No.											
Sample Depth (m)	16.85 - 17.1		17.1 - 17.4		17.4 - 17.6		32.5 - 32.7		33.0 - 33.3		
Diameter of the Specimen (mm)	35	35	35	35	35	35	35	35	35	35	
Height of the Specimen (mm)	70	70	69	70	66	67	71	70	69	69	
Crushing Strength (kg/cm ²)	780	843	980	865	632	600	210	316	843	949	
Bulk Density (g/cm ³)	2.68	2.61	2.55	2.60	2.67	2.69	2.50	2.66	2.64	2.59	

F.3 Results of Laboratory Soil Tests on Samples from Setapak

	<u>Page</u>
1. Summary of Soil Test	F-121
2. Unconsolidated-Undrained Triaxial Compression Test (Mohr's Circle)	F-122
3. Consolidation Test (e-log p curves)	F-129
4. Consolidation Test (c_v , m_v , k v.s. log p)	F-136

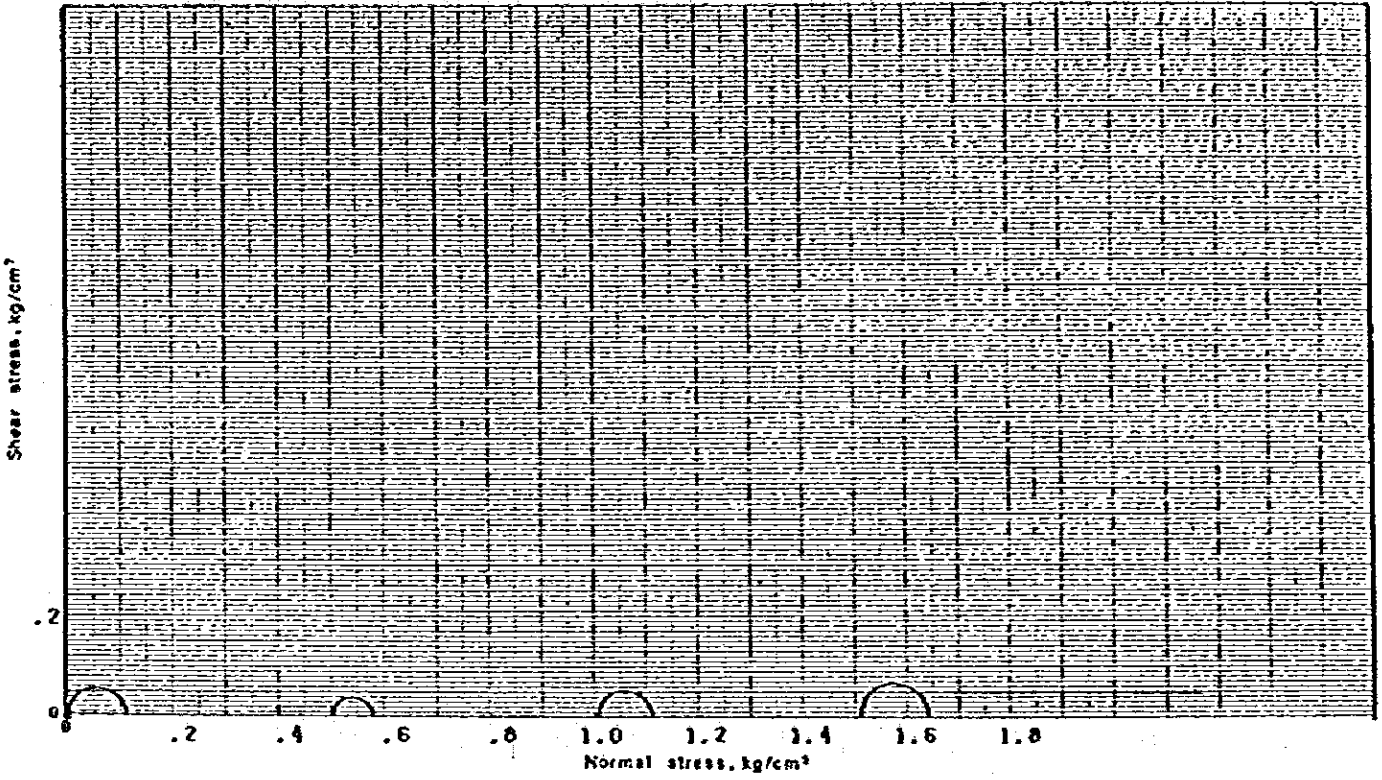
Summary of Soil Test (Setapak)

Boring No.	PBH-1				PBH-2				PBH-3				PBH-4							
	UD-1 0.50m 1.50m	UD-2 2.00m 2.80m	UD-3 2.50m 3.50m	UD-4 5.00m 6.90m	UD-5 7.00m 7.35m	UD-6 7.80m 8.65m	UD-7 8.65m 9.10m	UD-7 Middle Bottom	UD-1 1.20m 1.45m	UD-1 1.20m 1.45m	UD-2 1.85m 2.00m	UD-3 2.85m 3.00m	UD-1 3.80m 4.00m	UD-2 4.80m 5.00m	UD-2 5.85m 6.00m	UD-2 6.85m 7.00m	UD-2 7.85m 8.00m	UD-2 8.85m 9.00m	UD-2 9.85m 10.00m	UD-2 10.85m 11.00m
Condition of sample	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD
Natural water content, %	61.8	76.1	46.0	40.4	44.2	41.9	67.4	63.4	29.0	22.0	50.0	40.3	61.2	44.8	45.4	26.9	33.0	39.1	28.1	36.7
Specific gravity	2.593	2.639	2.657	2.640	2.666	2.634	2.651	2.620	2.622	2.626	2.560	2.692	2.647	2.643	2.619	2.628	2.865	2.644	2.673	2.664
Wet density, g/cm ³	1.62	1.58	1.78	1.78	1.77	1.79	1.58	1.66	1.92	2.02	1.69	1.78	1.60	1.79	1.76	1.95	1.94	1.81	1.90	1.86
Dry density, g/cm ³	1.00	0.90	1.22	1.27	1.23	1.26	0.94	1.02	1.49	1.66	1.13	1.27	0.99	1.24	1.21	1.54	1.46	1.30	1.48	1.45
Natural void ratio	1.59	1.94	1.18	1.08	1.17	1.09	1.81	1.58	0.76	0.59	1.27	1.12	1.67	1.14	1.16	0.71	0.96	1.03	0.80	0.96
Degree of saturation, %	100	100	100	99	100	100	99	100	100	99	100	97	97	100	100	100	98	100	93	100
Atterberg limits	50.5	52.7	61.8	56.5	44.7	45.6	87.6	82.4	41.9	-	58.5	33.3	61.0	43.8	53.8	61.0	66.6*	42.0	-	35.1
Plasticity index	22.6	21.1	21.9	21.7	17.2	17.8	32.1	30.3	18.3	-	27.4	16.2	23.1	16.7	20.4	22.8	26.9	17.2	-	15.6
Gravel, %	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	12	0	27
Sand, %	2	30	18	25	40	23	6	0	34	63	23	45	4	16	1	7	27	31	46	5
Silt, %	30	28	32	32	22	25	19	17	17	19	25	23	38	40	39	39	15	29	11	60
Clay, %	68	42	50	44	38	52	75	83	49	16	51	28	58	44	60	54	46	40	16	35
Colloid, %	0.250	0.420	0.420	0.420	0.420	0.420	0.420	0.074	2.00	4.76	4.76	9.52	0.420	0.420	0.105	0.42	9.52	0.42	9.52	2.00
Max. dia. macro, mm	0.0019	0.051	0.024	0.041	0.072	0.019	-	-	0.046	0.19	0.016	0.10	0.0065	0.022	0.00530	0.00870	0.058	0.053	0.64	0.022
Diam. at 10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Visual soil description	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand	Silty clay w/hand
Classification	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH
Angle of internal friction	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°
Cohesion, kg/cm ²	0.05	0.04	0.06	0.06	0.08	0.09	0.10	-	-	-	-	-	-	0.06	0.20	0.75	0.37	-	-	0.69
Condition of drainage	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u	u-u
Preconsolid. Press. kg/cm ²	-	-	(0.30)	(0.40)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Compression Index	0.08	-	0.32	0.32	0.30	-	0.26	-	0.055	-	-	-	-	0.27	0.42	0.19	0.22	-	-	0.20
Remarks	* UD denotes undisturbed samples.																			

TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
Condition of drainage U-U

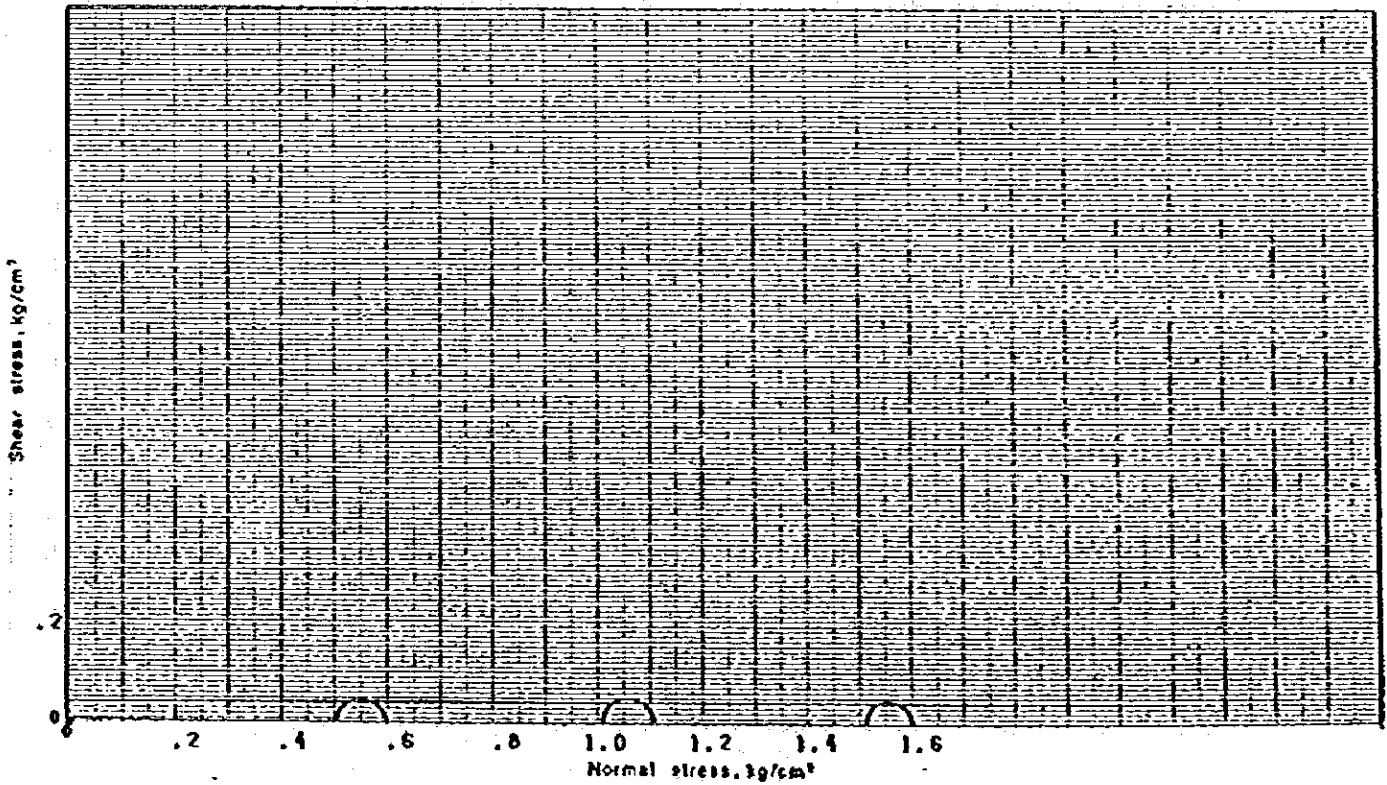
Boring No. FBH-1 Sample No. UD-1
Depth of Sample .50 m - 1.30 m
Angle of internal friction 0°
Cohesion 0.05 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
Condition of drainage U-U

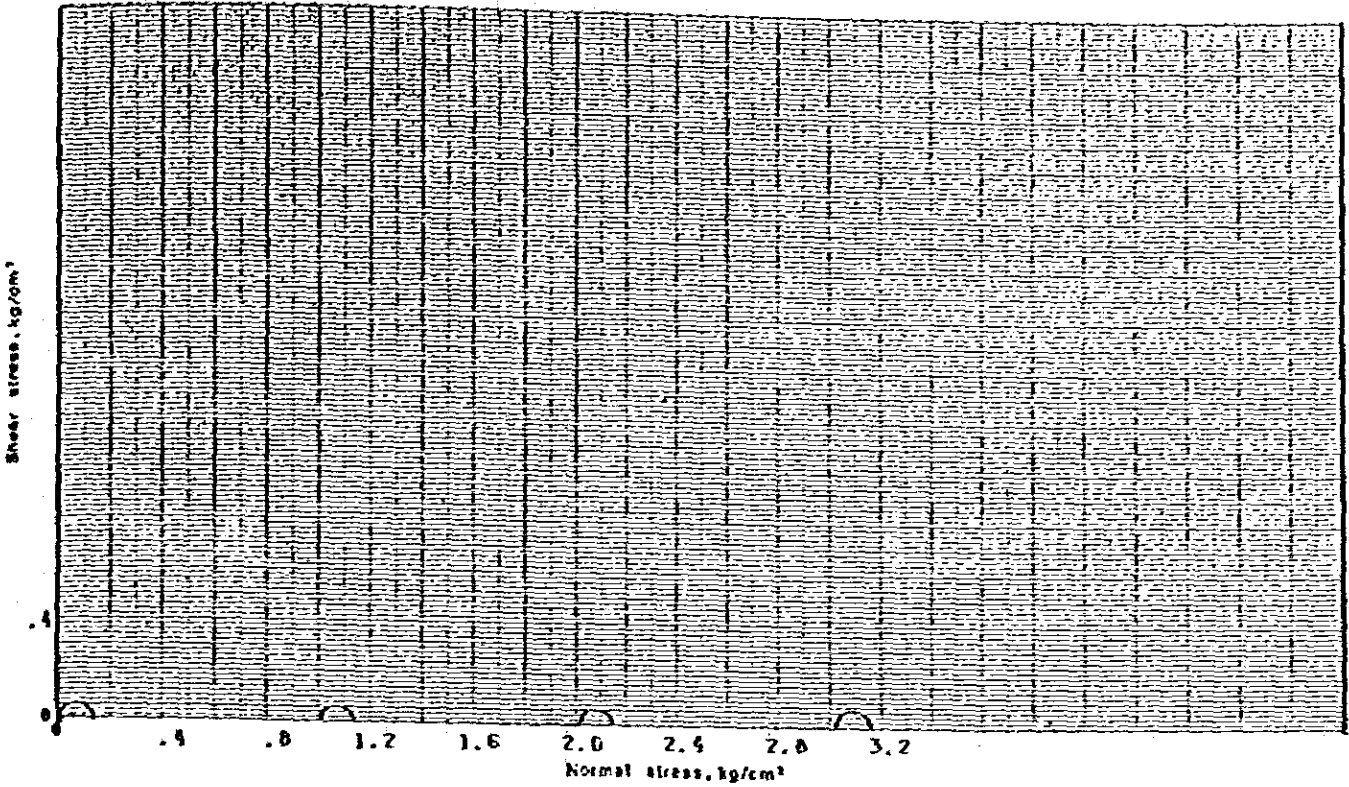
Boring No. FBH-1 Sample No. UD-2
Depth of Sample 2.00 m - 2.00 m
Angle of internal friction 0°
Cohesion 0.01 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

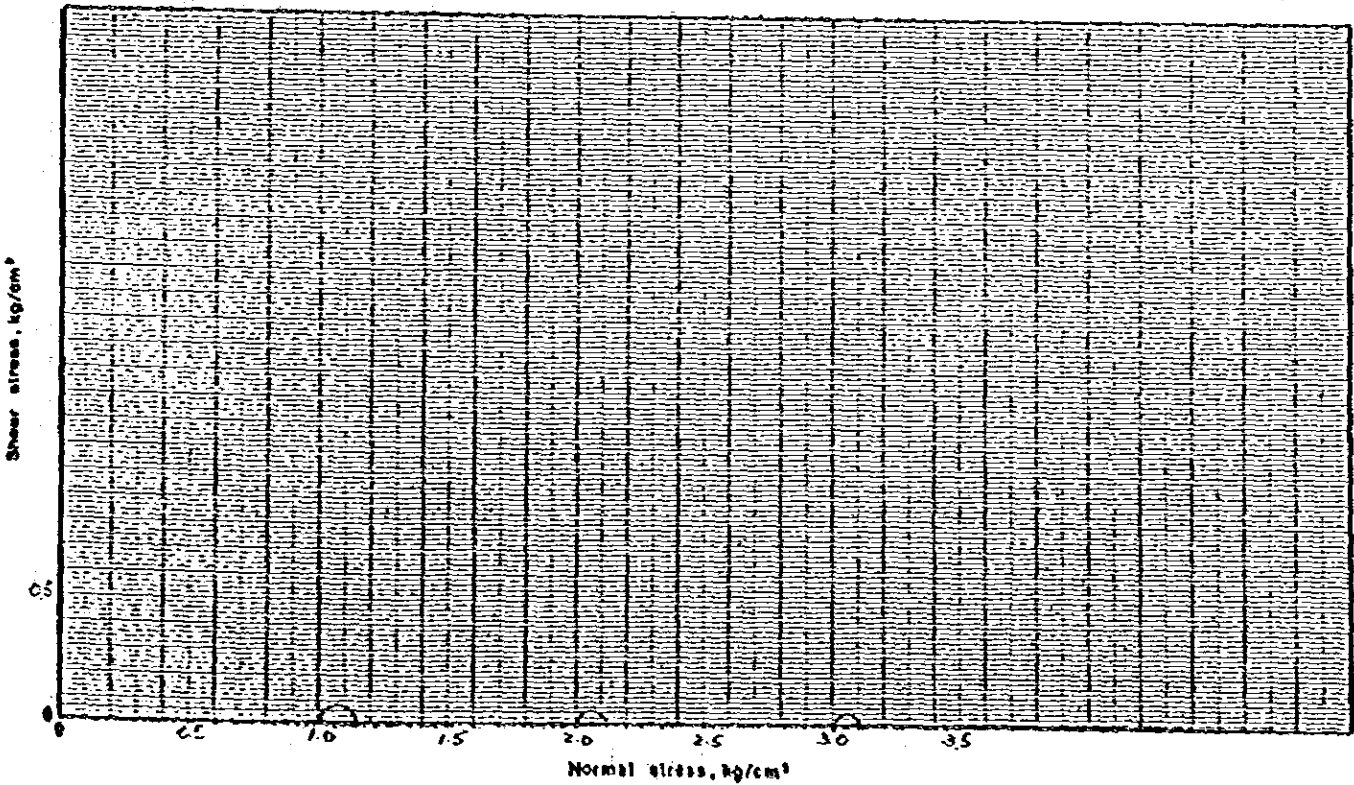
Boring No. FBH-1 Sample No. UD-3
 Depth of Sample 3.50 m - 4.30 m
 Angle of Internal friction 0°
 Cohesion 0.05 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

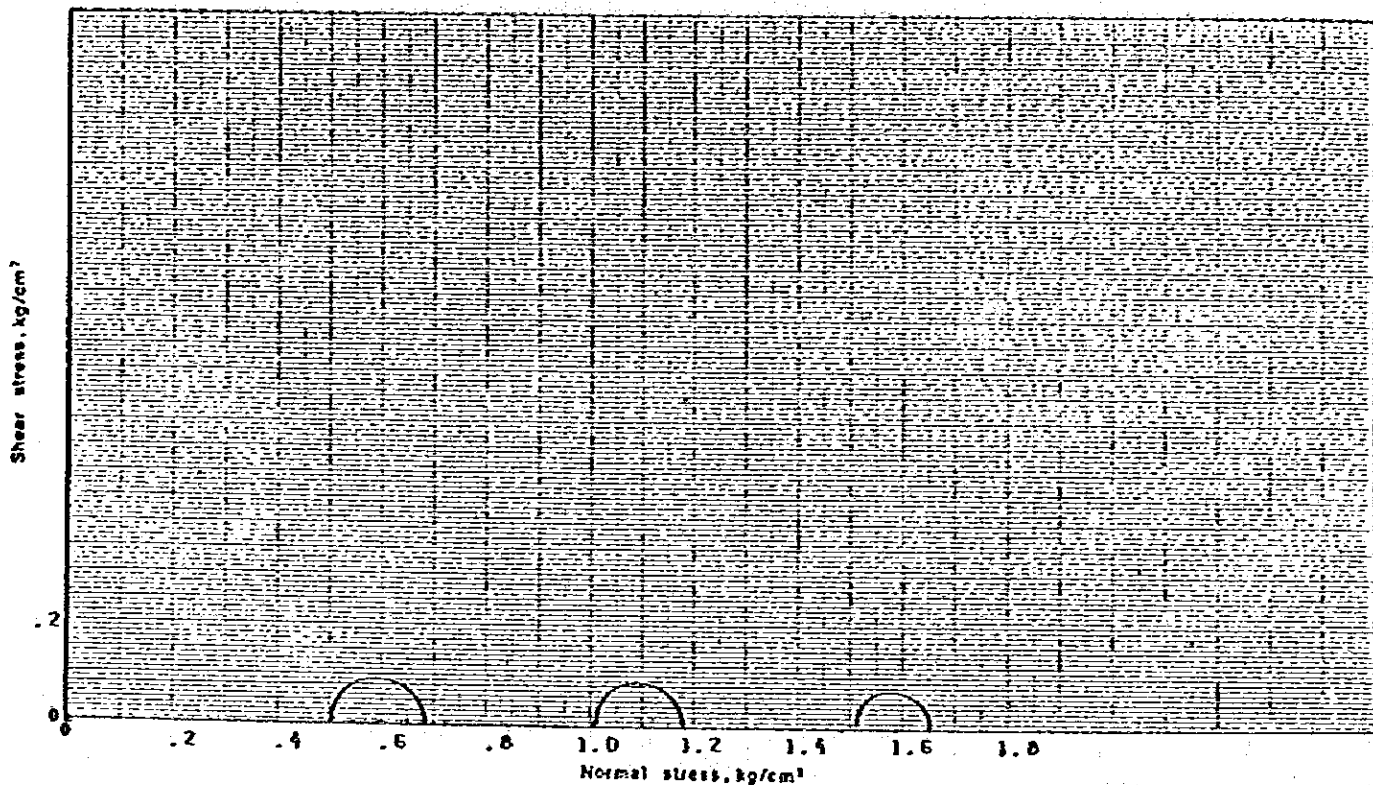
Boring No. FBH-1 Sample No. UD-4
 Depth of Sample 5.00 m - 5.80 m
 Angle of Internal friction 0°
 Cohesion 0.06 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

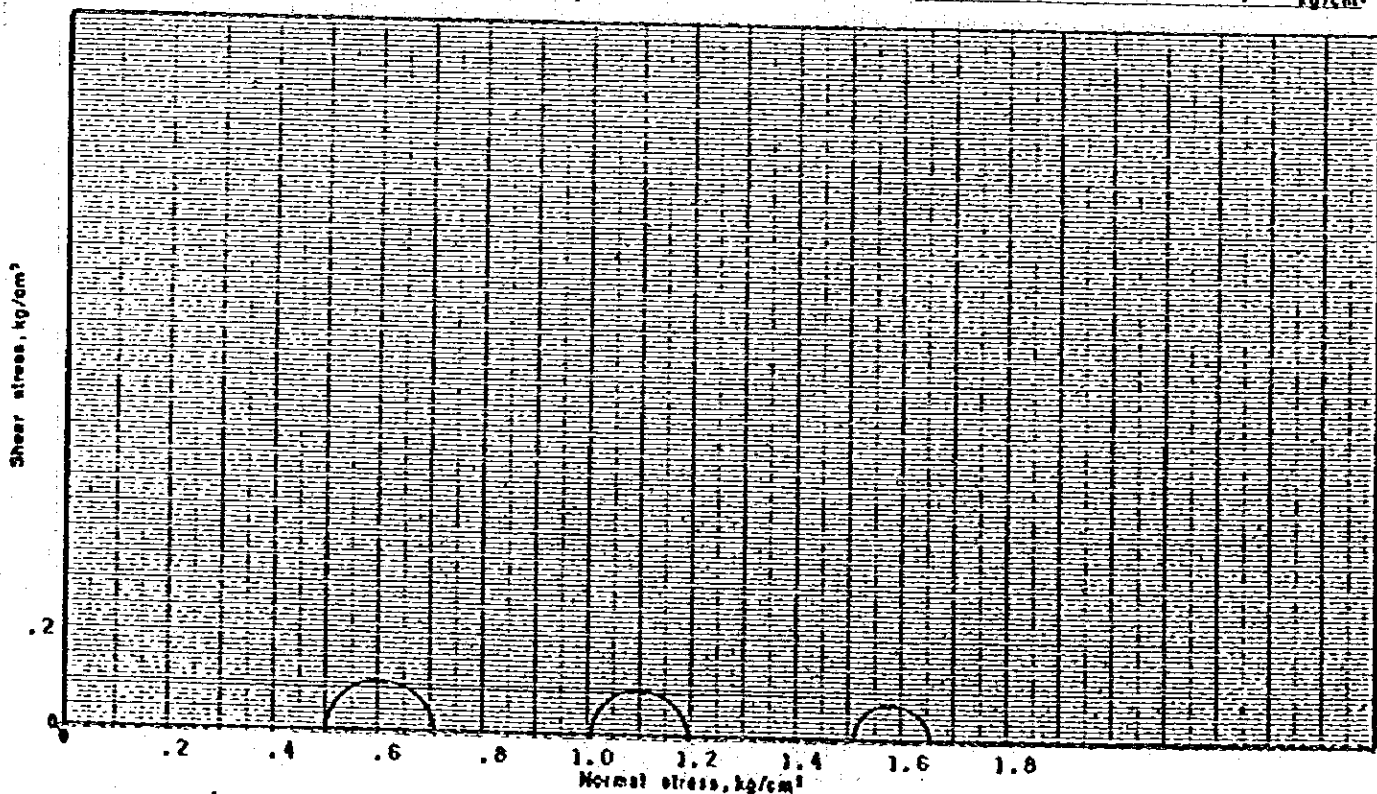
Boring No. PBH-1 Sample No. UD-5
 Depth of Sample 5.80 m. 6.60 m
 Angle of Internal friction 0°
 Cohesion 0.08 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

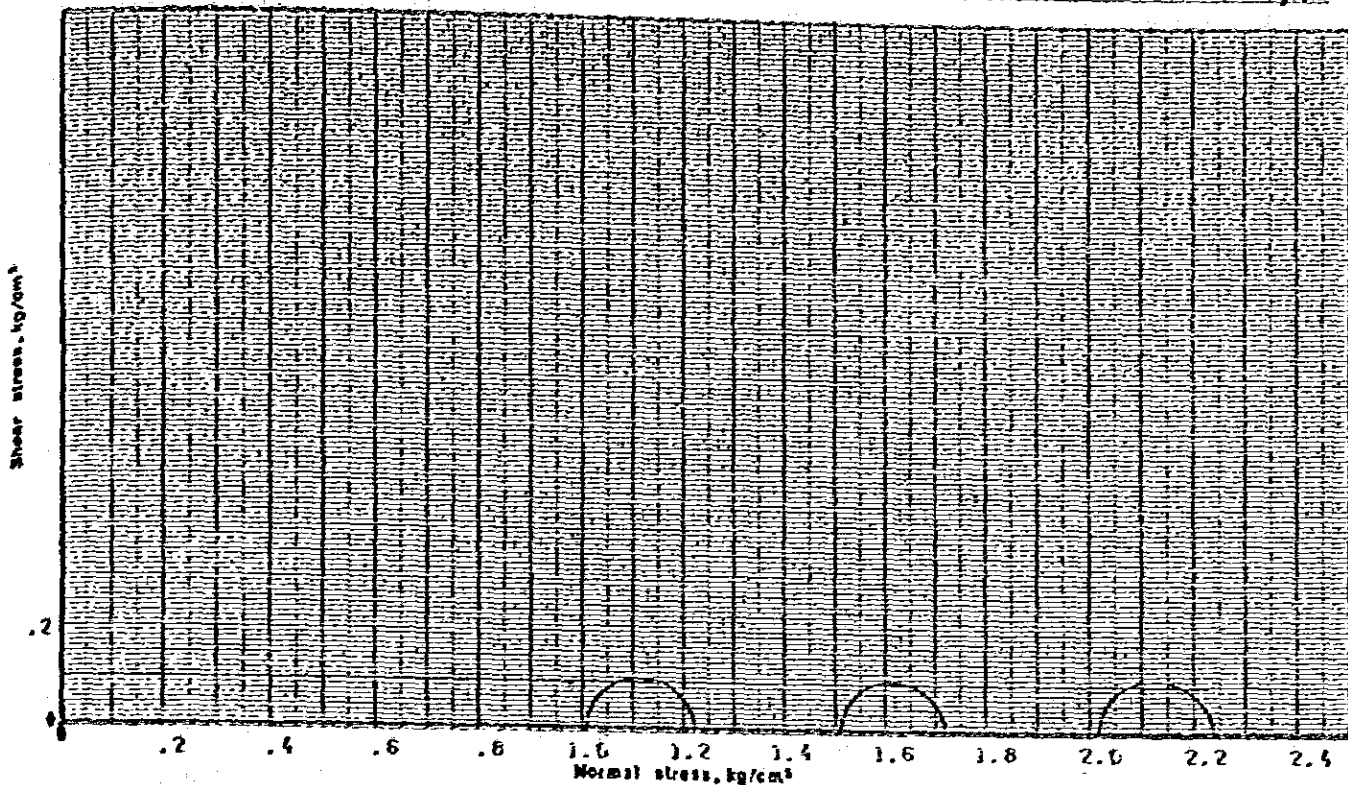
Boring No. PBH-1 Sample No. UD-6Top
 Depth of Sample 7.00 m. 7.35 m
 Angle of Internal friction 0°
 Cohesion 0.09 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

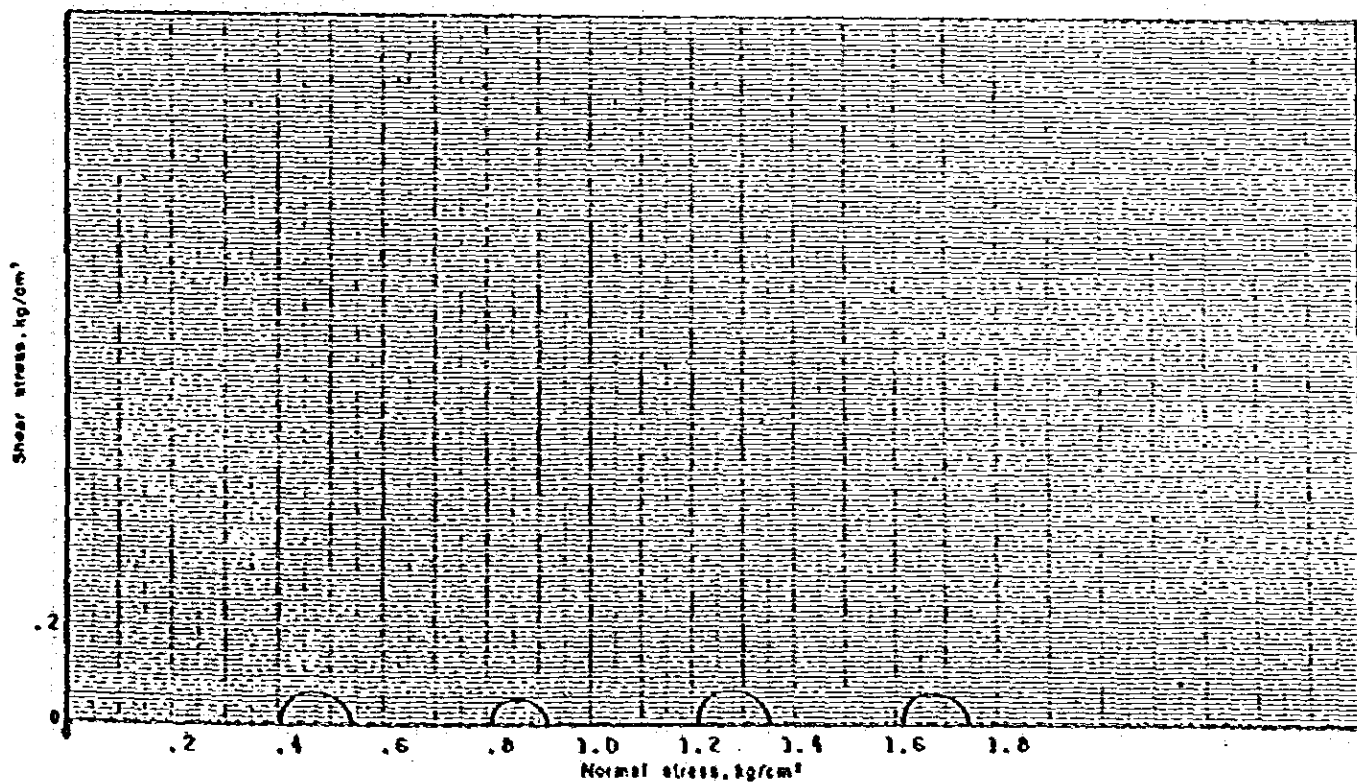
Boring No. PBH-1 Sample No. UD-6Bottom
 Depth of Sample 7.35 m - 7.80 m
 Angle of internal friction 0°
 Cohesion 0.10 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

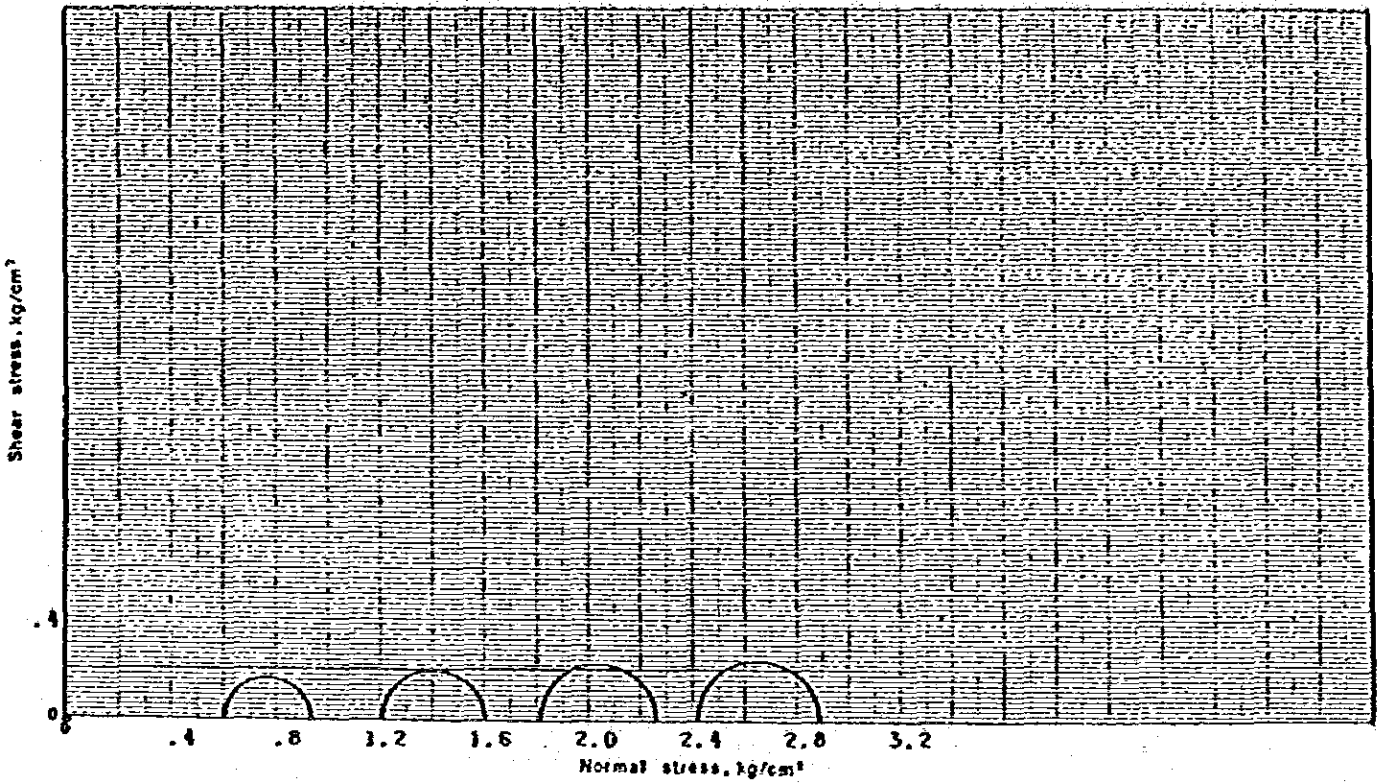
Boring No. PBH-2 Sample No. UD-2
 Depth of Sample 4.00 m - 4.25 m
 Angle of internal friction 0°
 Cohesion 0.06 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

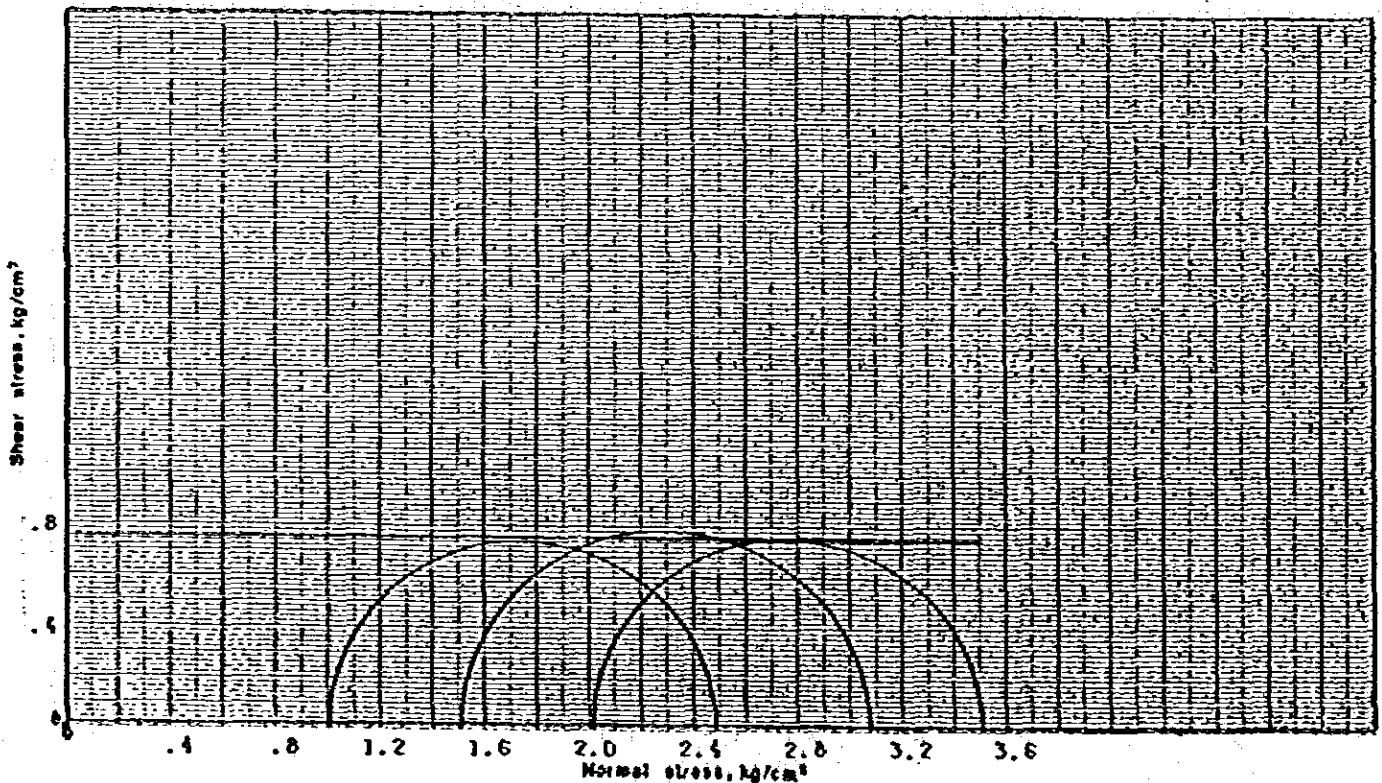
Boring No. PBH-2 Sample No. UD-3
 Depth of Sample 7.00 m. 7.85 m
 Angle of Internal friction 0°
 Cohesion 0.20 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage U-U

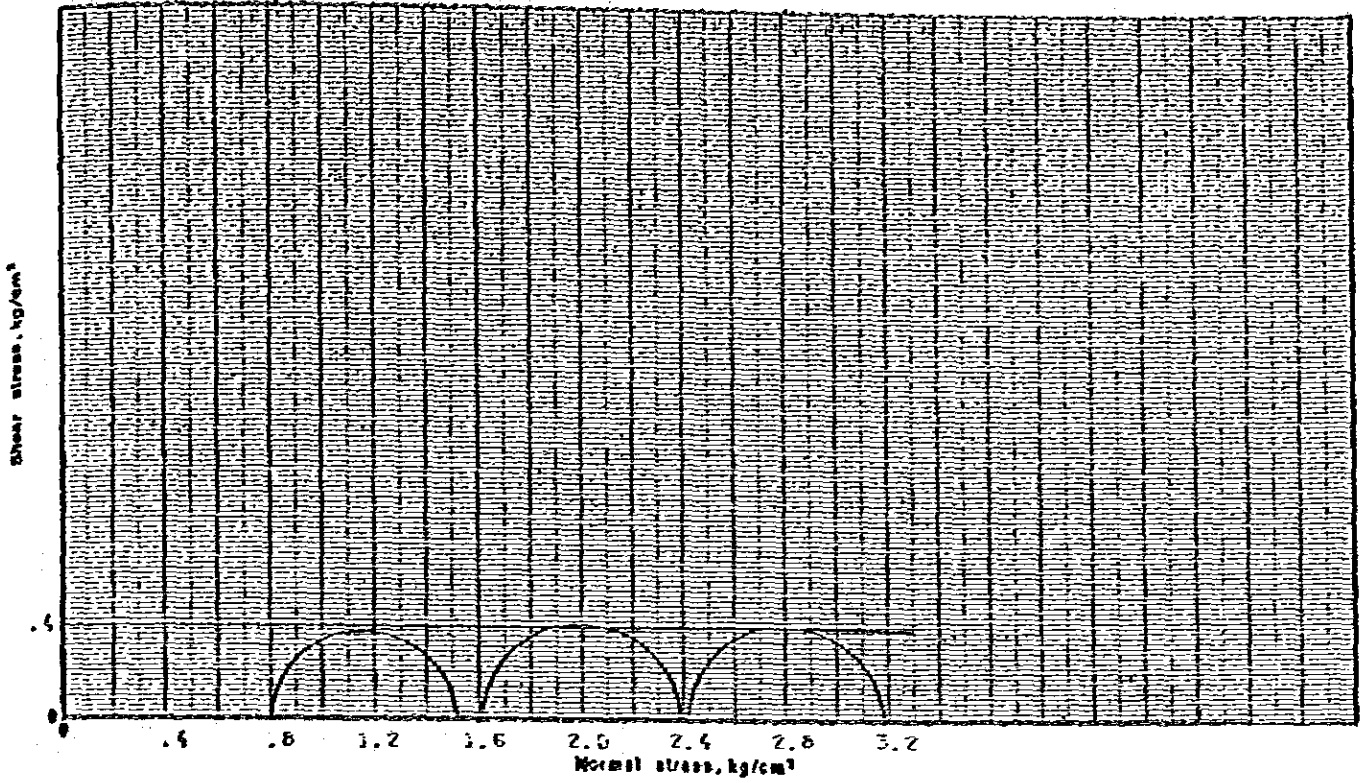
Boring No. PBH-3 Sample No. UD-1
 Depth of Sample 3.00 m. 3.80 m
 Angle of Internal friction 0°
 Cohesion 0.75 kg/cm²



TRIAxIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage 1j-1j

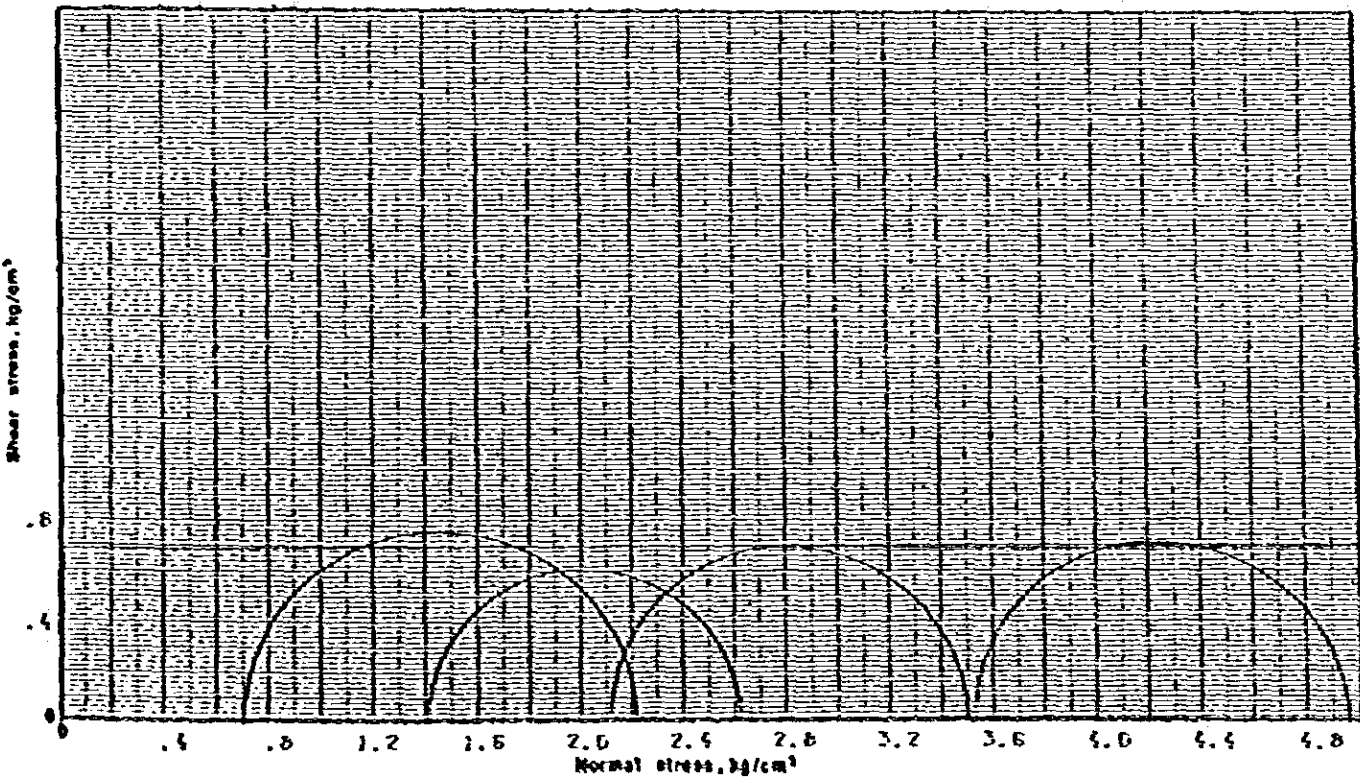
Boring No. PBH-3 Sample No. UD-2
 Depth of Sample 2.00 m. 2.80 m
 Angle of Internal Friction 0°
 Cohesion 0.37 kg/cm²



TRIAxIAL COMPRESSION TEST (Mohr's circle)

Project 267
 Condition of drainage 1j-1j

Boring No. PBH-4 Sample No. UD-3
 Depth of Sample 5.00 m. 5.85 m
 Angle of Internal Friction 0°
 Cohesion 0.69 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circles)

Project 267

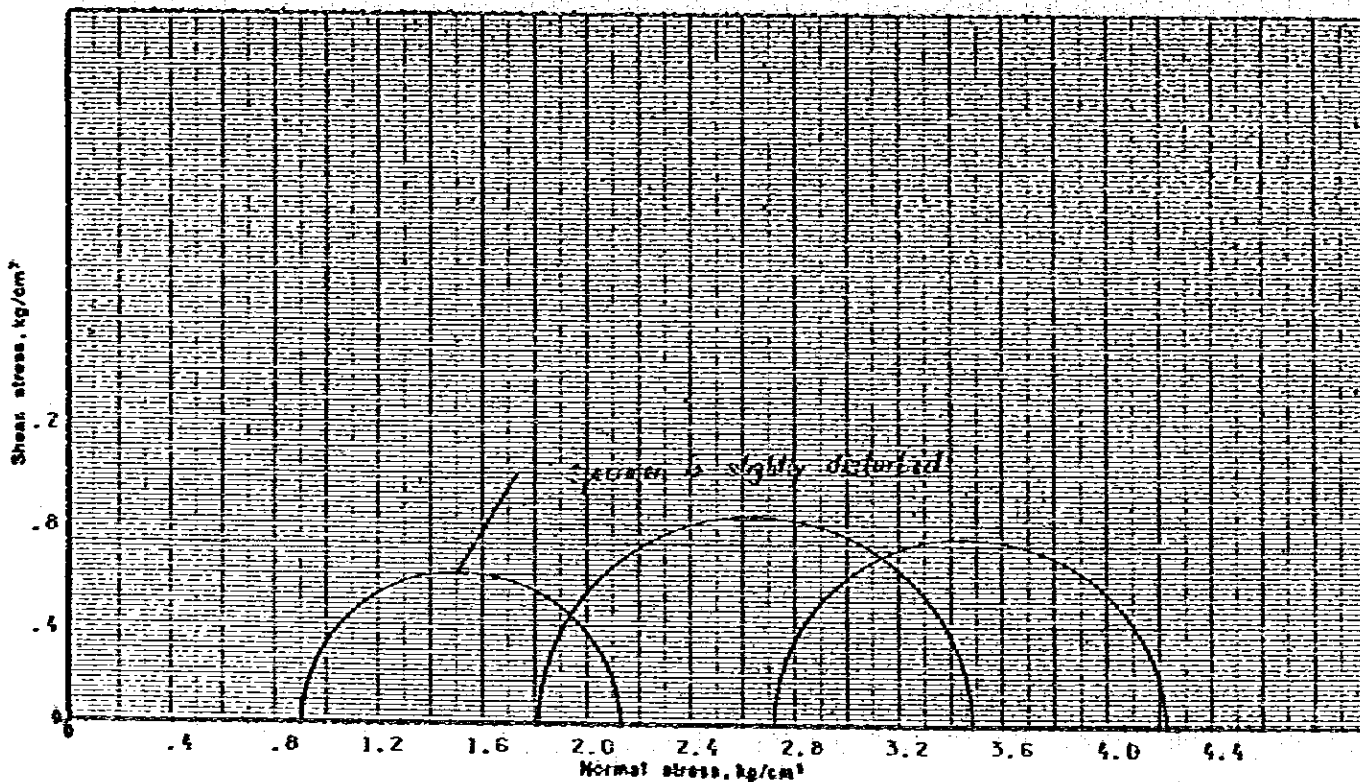
Condition of drainage U-U

Boring No. PBH-4 Sample No. UD-4

Depth of Sample 8.00 m. 8.50 m

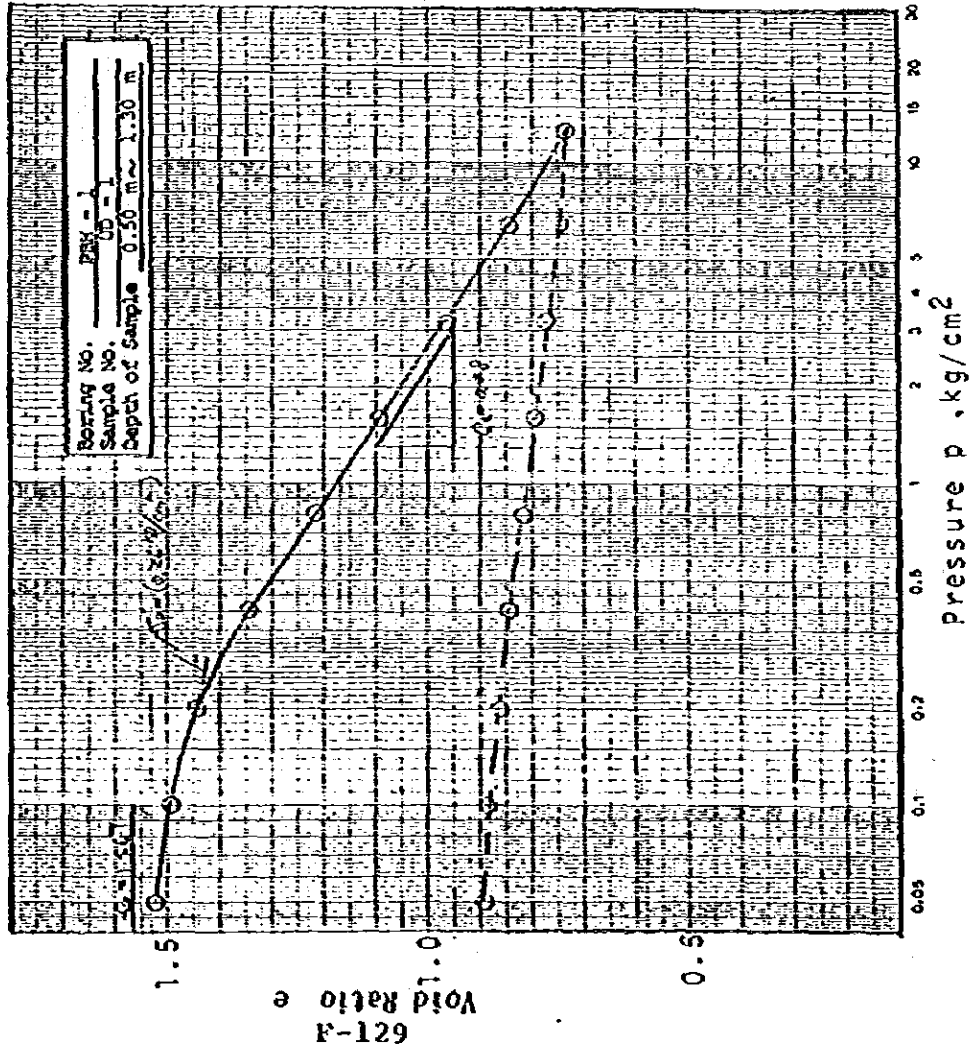
Angle of Internal Friction 0°

Cohesion (0.72) kg/cm²



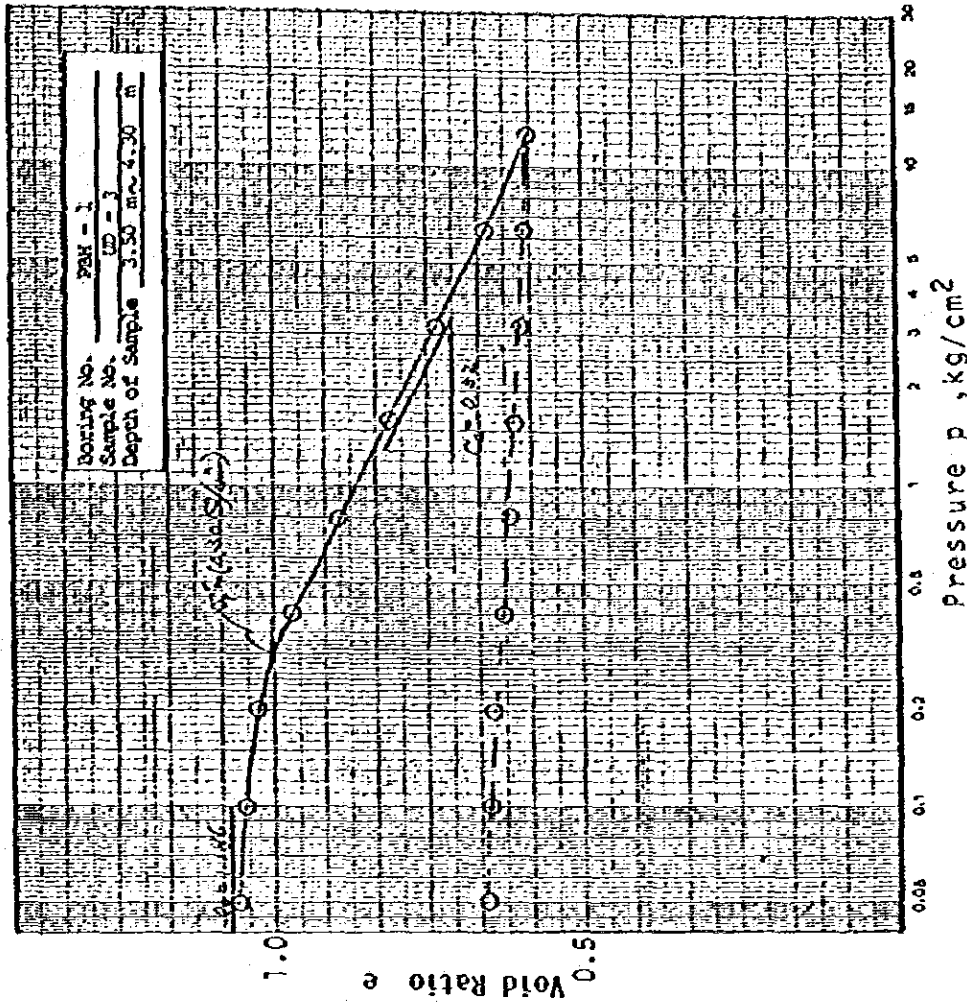
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure σ_p (kg/cm ²)	Compression Index C_c	Symbol
UL-1	0.50 ~ 1.00	50.5	1.567	(0.26)	0.37	○
						△



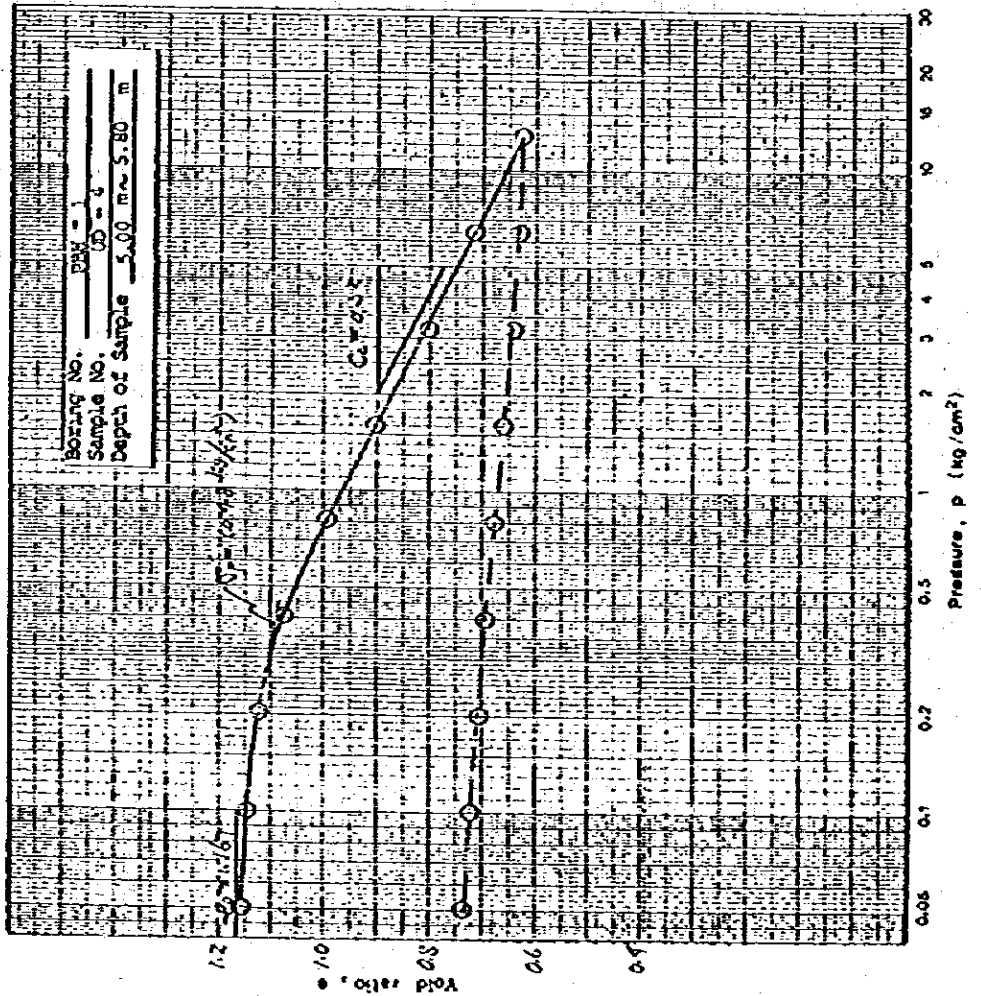
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure σ_p (kg/cm ²)	Compression Index C_c	Symbol
UL-3	3.50 ~ 4.00	61.8	1.186	(0.30)	0.32	○
						△



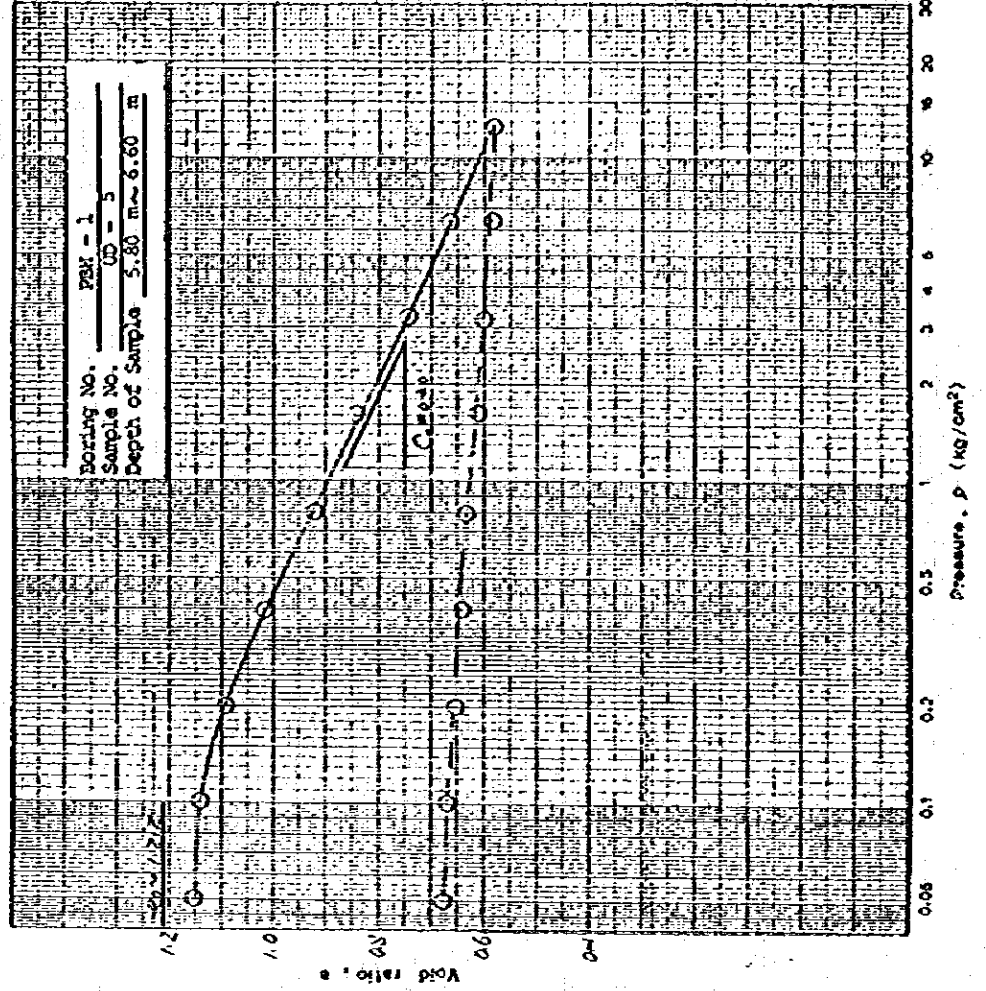
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e.	Preconsolidation Pressure C_p (kg/cm ²)	Compression Index C_c	Symbol
UD-4	5.00 ~ 5.80	44.7	1.167	(0.48)	0.32	○
						△



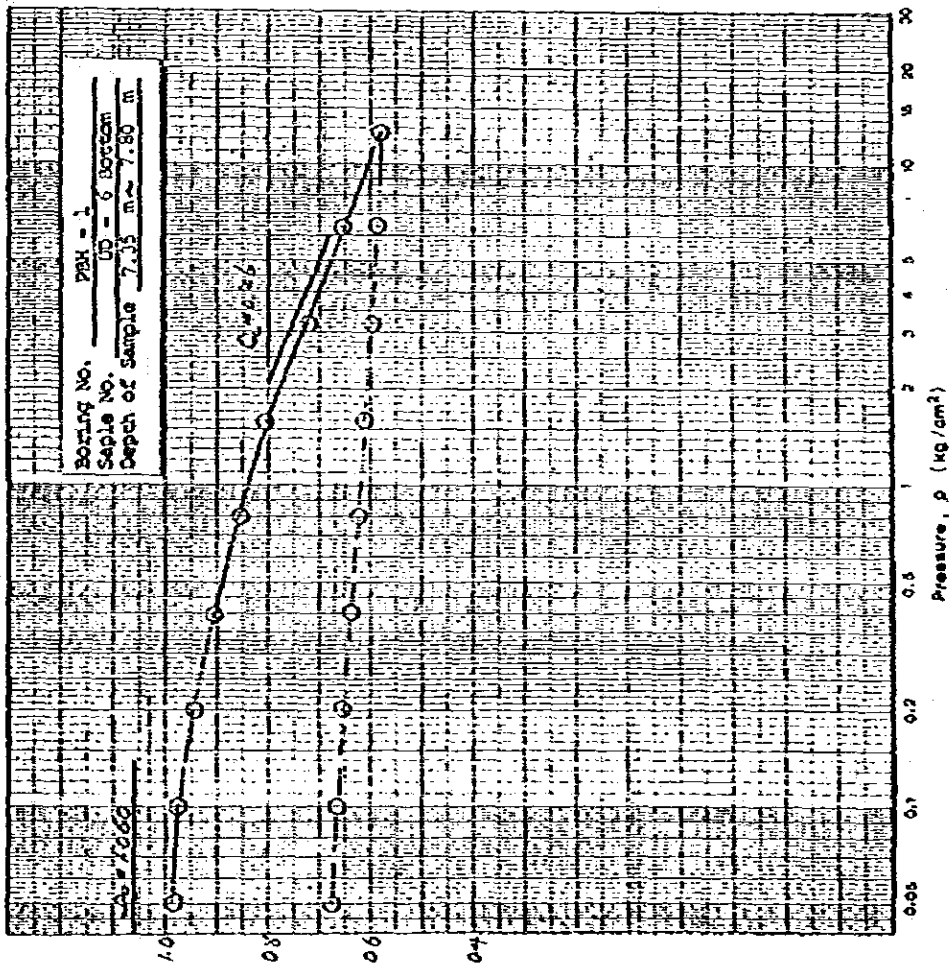
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e.	Preconsolidation Pressure C_p (kg/cm ²)	Compression Index C_c	Symbol
UD-5	5.80 ~ 6.60	44.7	1.212	-	0.30	○
						△



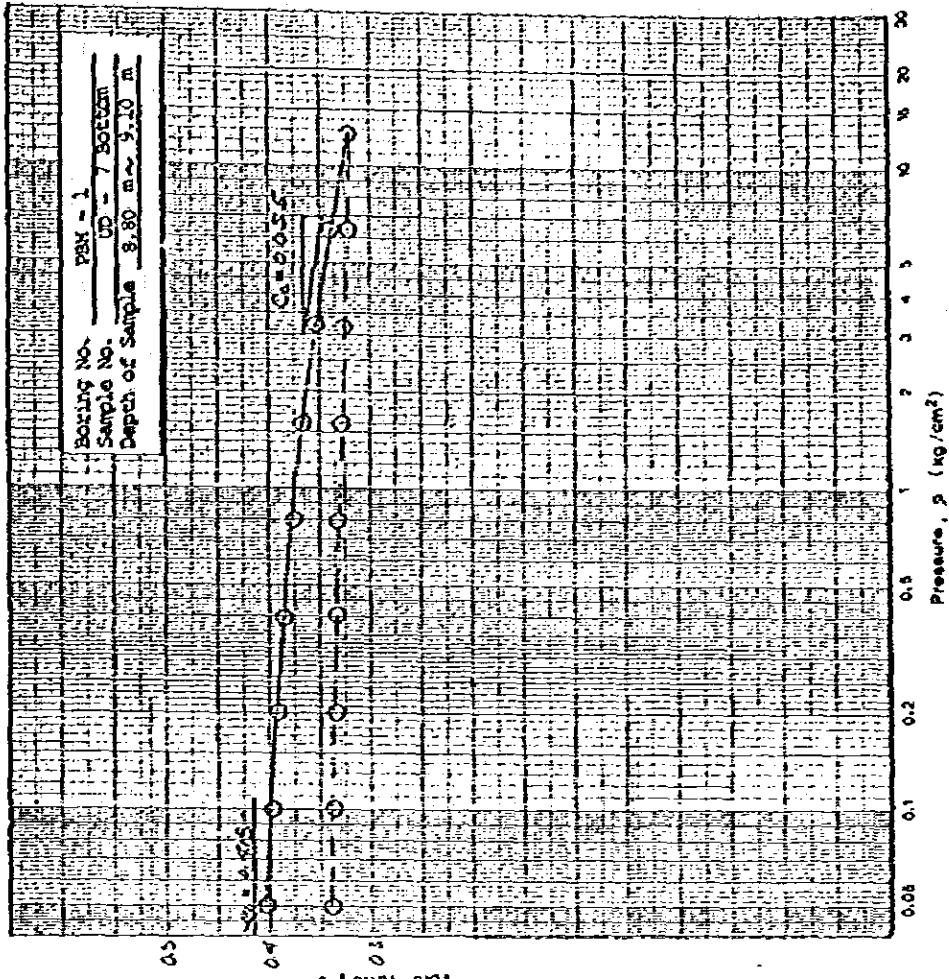
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation pressure σ_p (kg/cm ²)	Compression Index C_c	Symbol
UD-6	7.00 ~ 7.80	87.6	1.060	—	0.26	○
						△



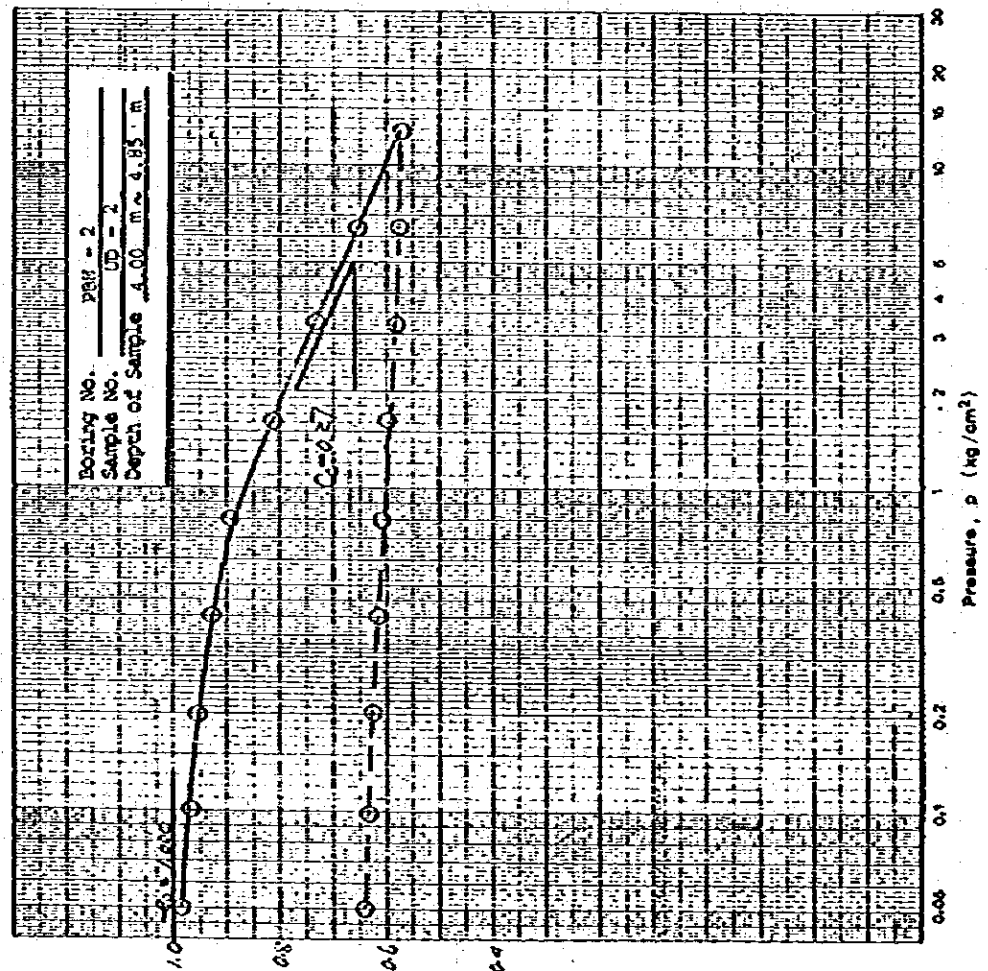
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation pressure σ_p (kg/cm ²)	Compression Index C_c	Symbol
UD-7	8.80 ~ 9.10	—	0.415	—	0.055	○
(Bottom)						△



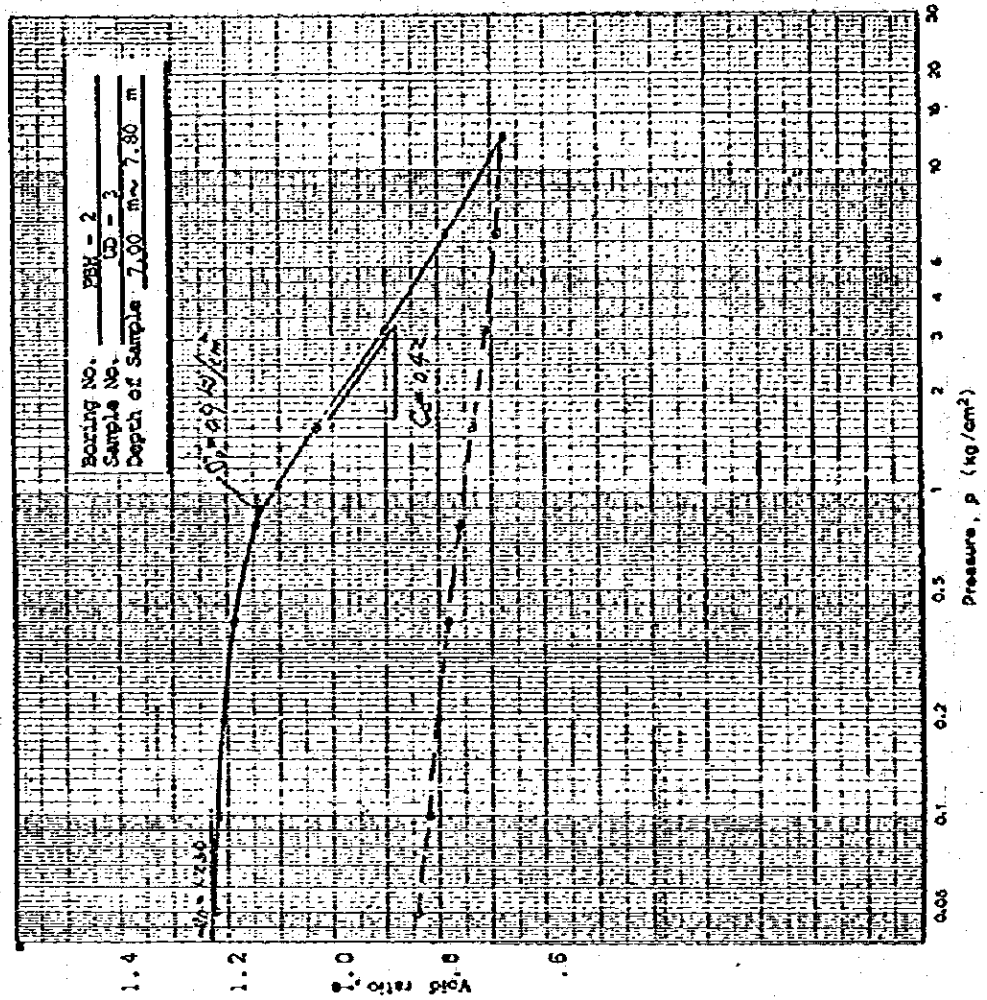
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure σ'_p (kg/cm ²)	Compression Index C_c	Symbol
UD-2	5.00 ~ 4.50	73.8	1.060	—	0.27	○
						△



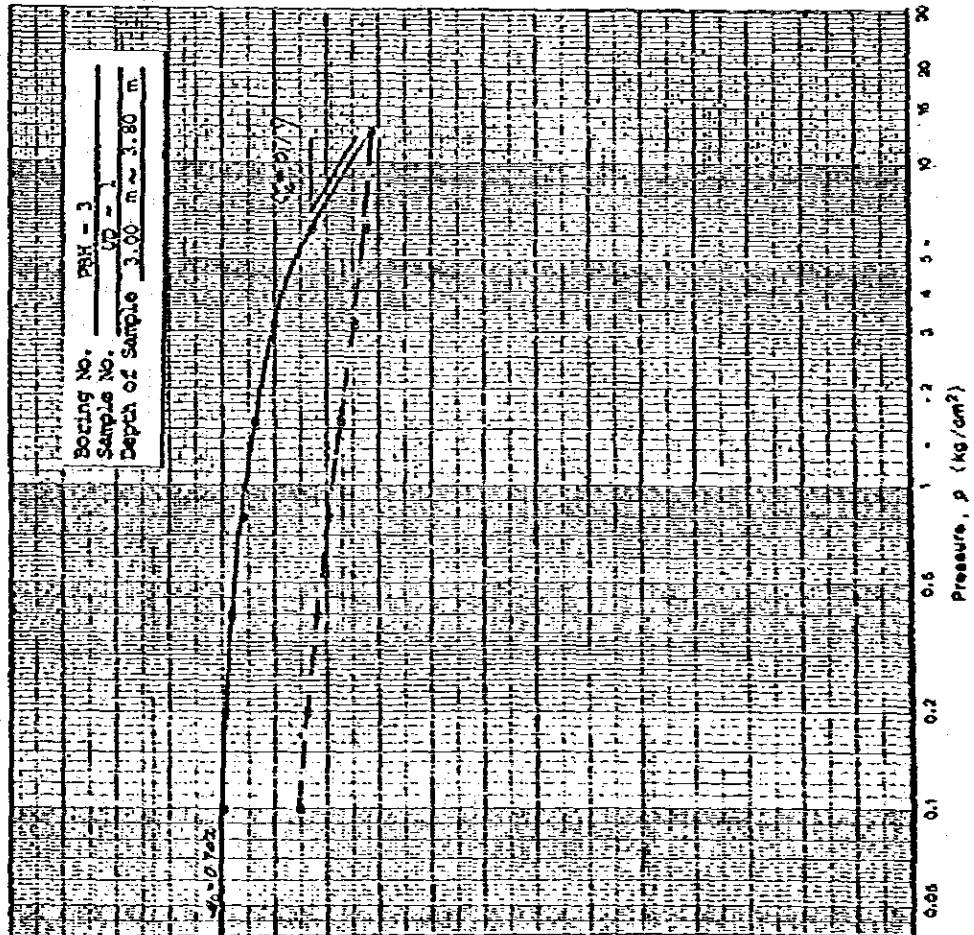
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure σ'_p (kg/cm ²)	Compression Index C_c	Symbol
UD-3	7.00 ~ 7.05	59.8	1.230	0.9	0.42	○
						△



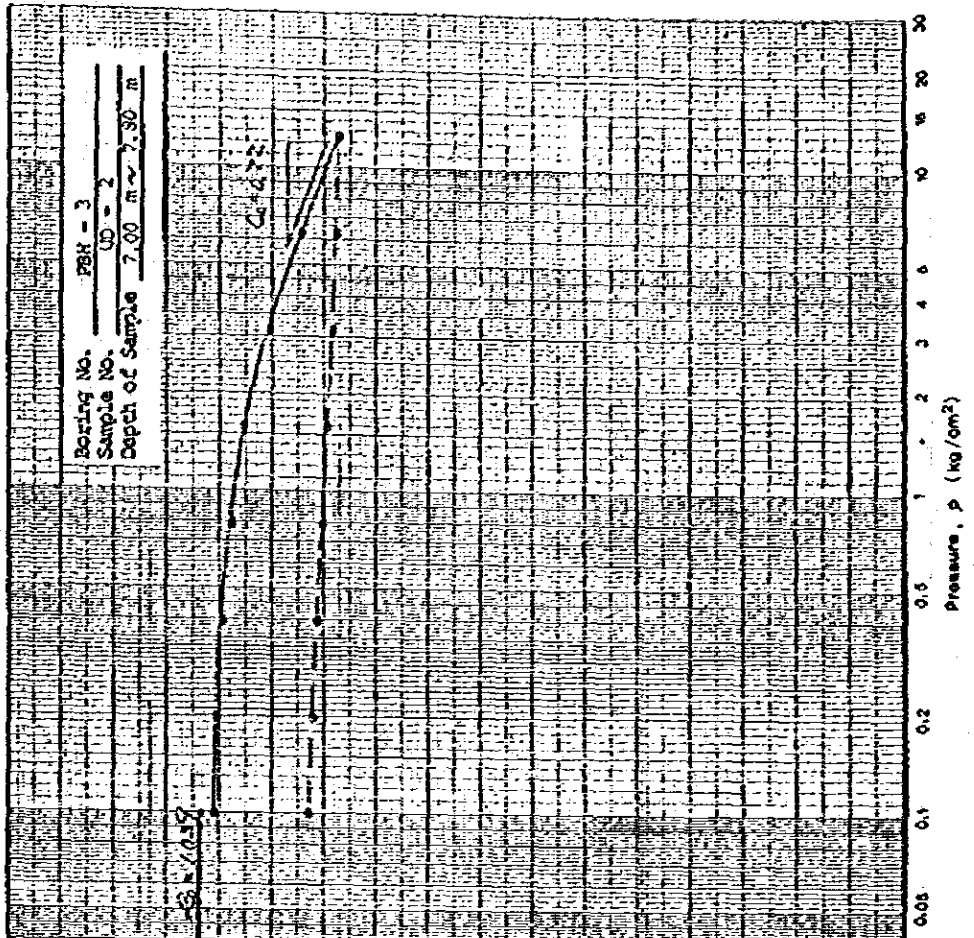
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure σ'_p (kg/cm ²)	Compression Index C_c	Symbol
UD-1	3.60 ~ 3.80	61.0	0.702	—	0.19	○
						△



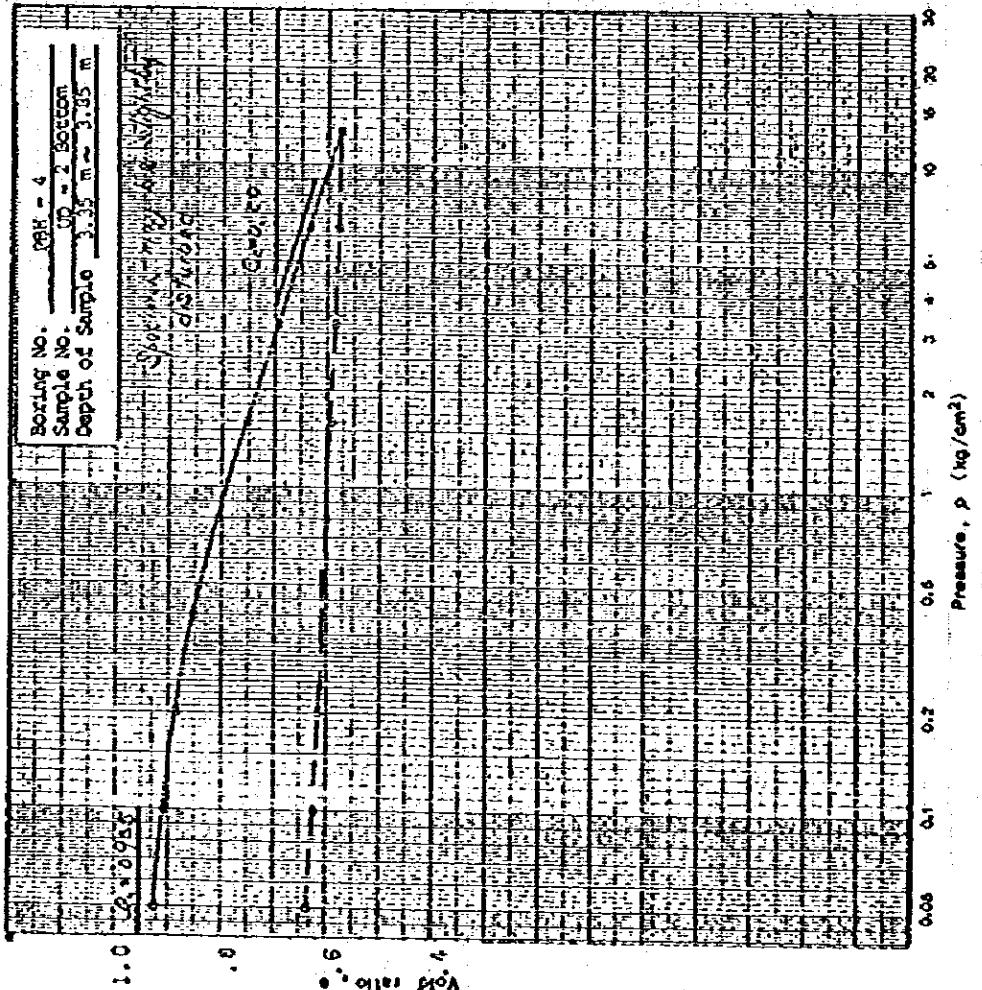
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure σ'_p (kg/cm ²)	Compression Index C_c	Symbol
UD-2	7.00 ~ 7.80	66.6	1.059	—	0.22	○
						△



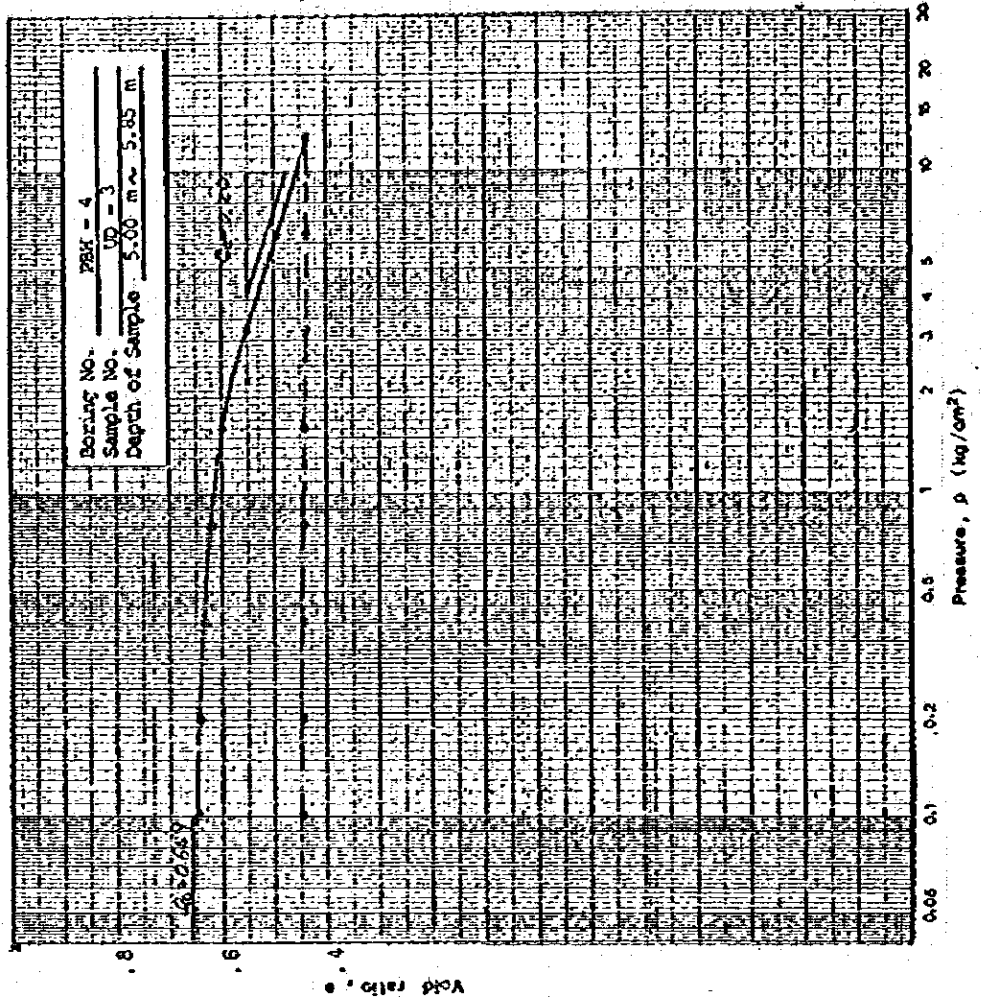
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure C_p (kg/cm ²)	Compression Index C_c	Symbol
UD-28	3.35 ~ 3.80	55.1	0.955	--	0.20	⊙
						△



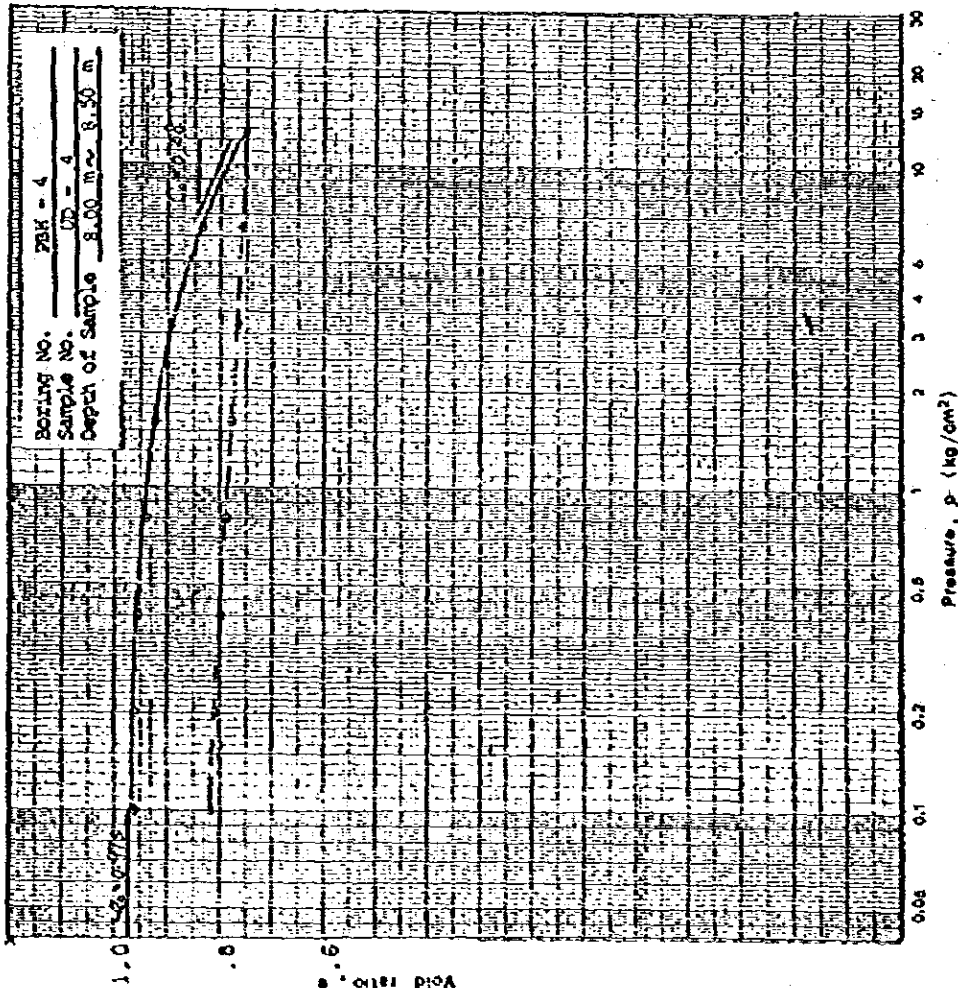
CONSOLIDATION TEST (e-log p curves)

Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_0	Preconsolidation Pressure C_p (kg/cm ²)	Compression Index C_c	Symbol
UD-3	5.00 ~ 5.85	41.8	0.659	--	0.20	⊙
						△

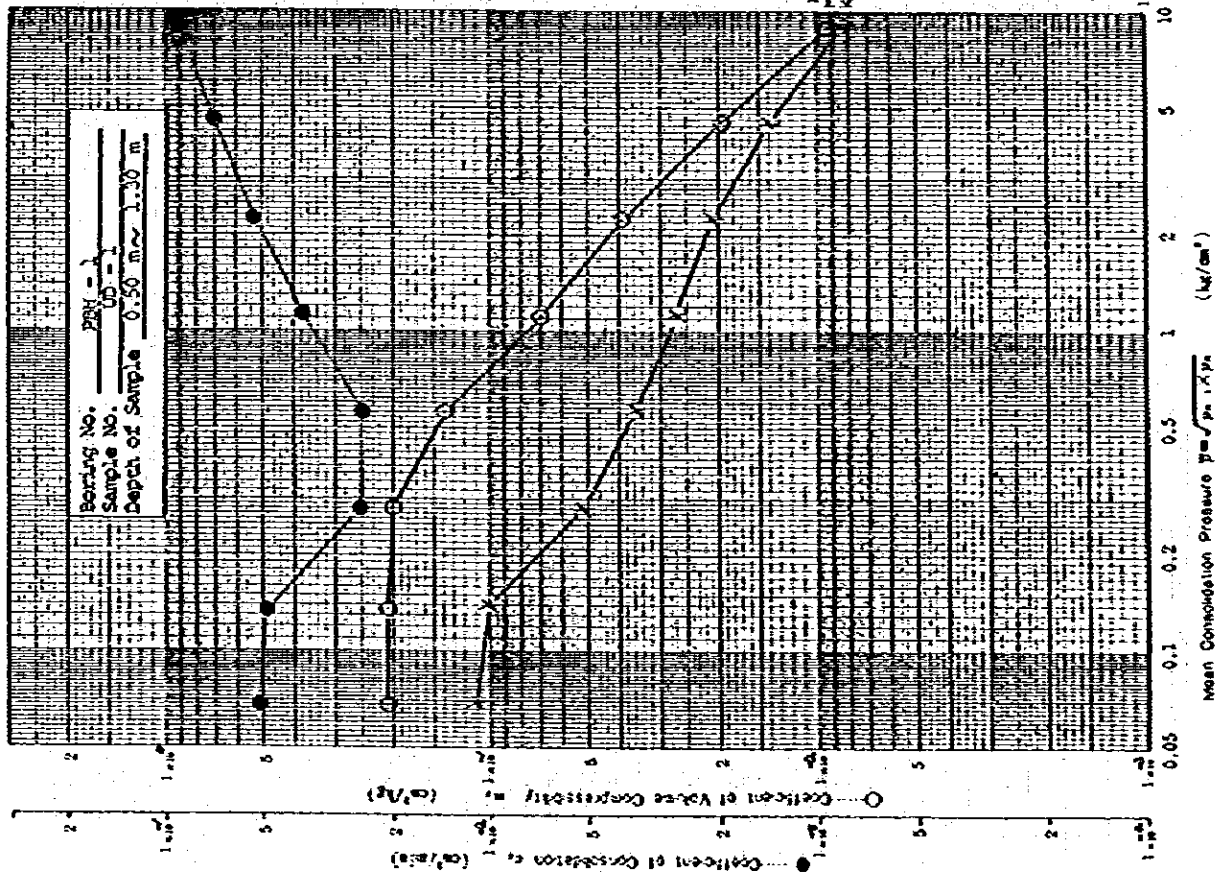


CONSOLIDATION TEST (e-log p curves)

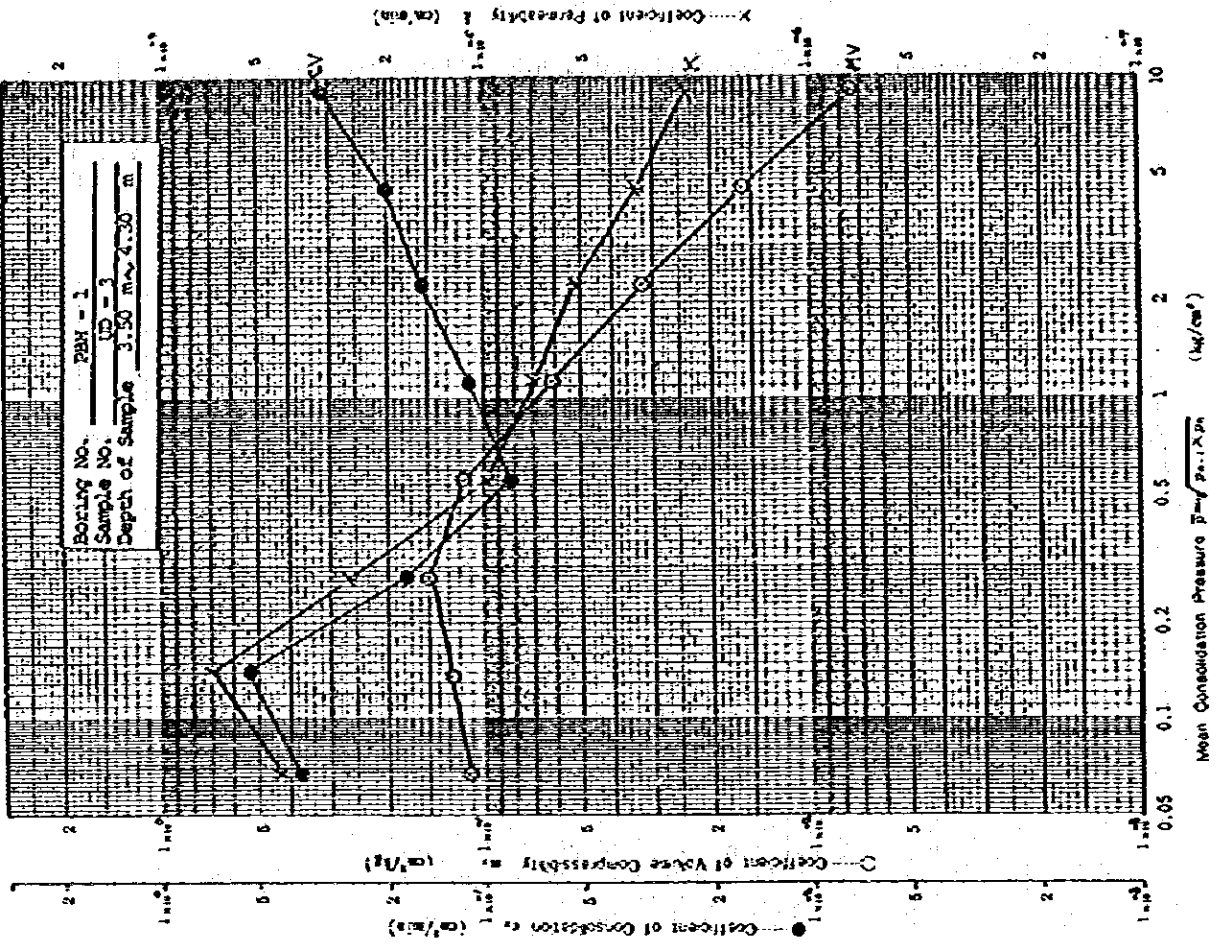
Sample No.	Depth of Sample (m)	Liquid Limit LL (%)	Initial Void Ratio e_i	Preconsolidation Pressure C_p (kg/cm ²)	Compression Index C_c	Symbol
LD-4	6.0 ~ 8.50	21.0	0.973	—	0.28	⊙
						△



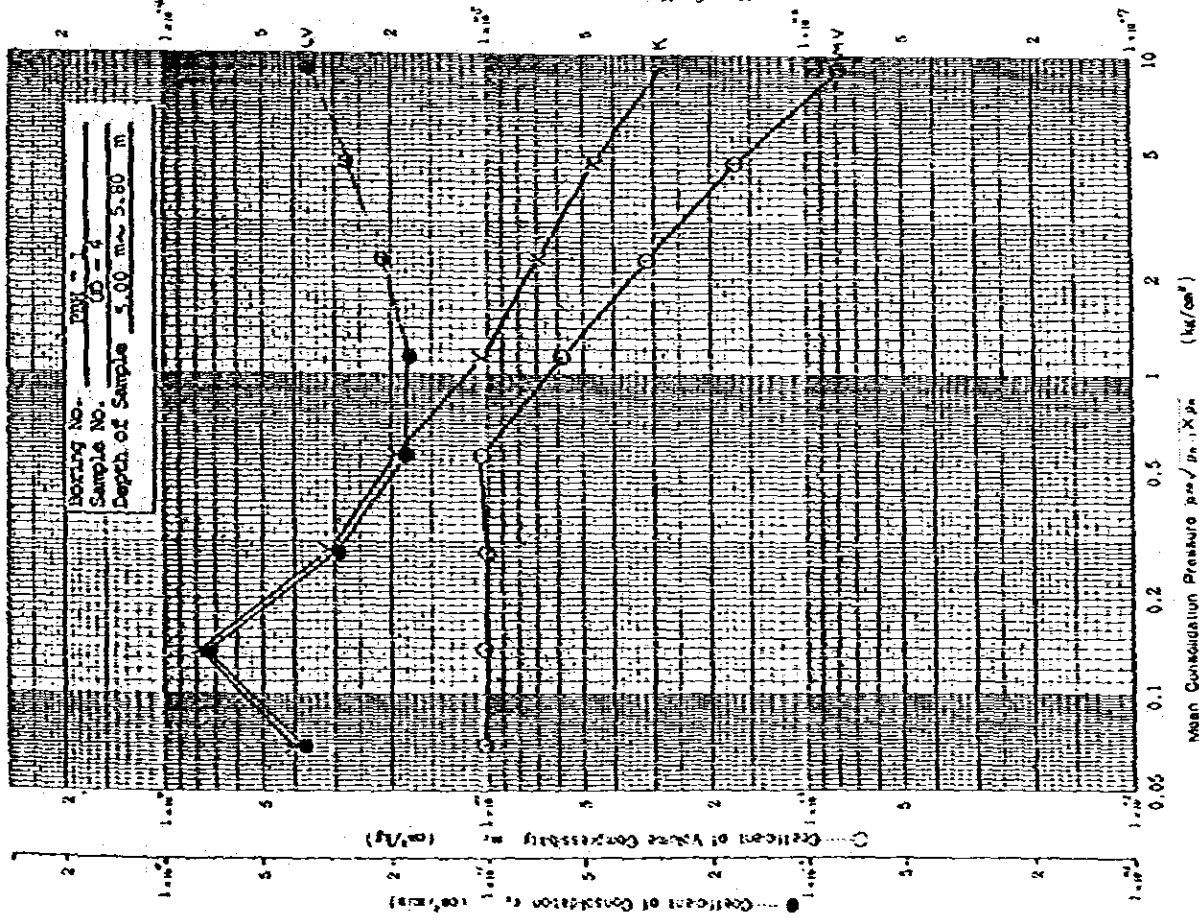
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



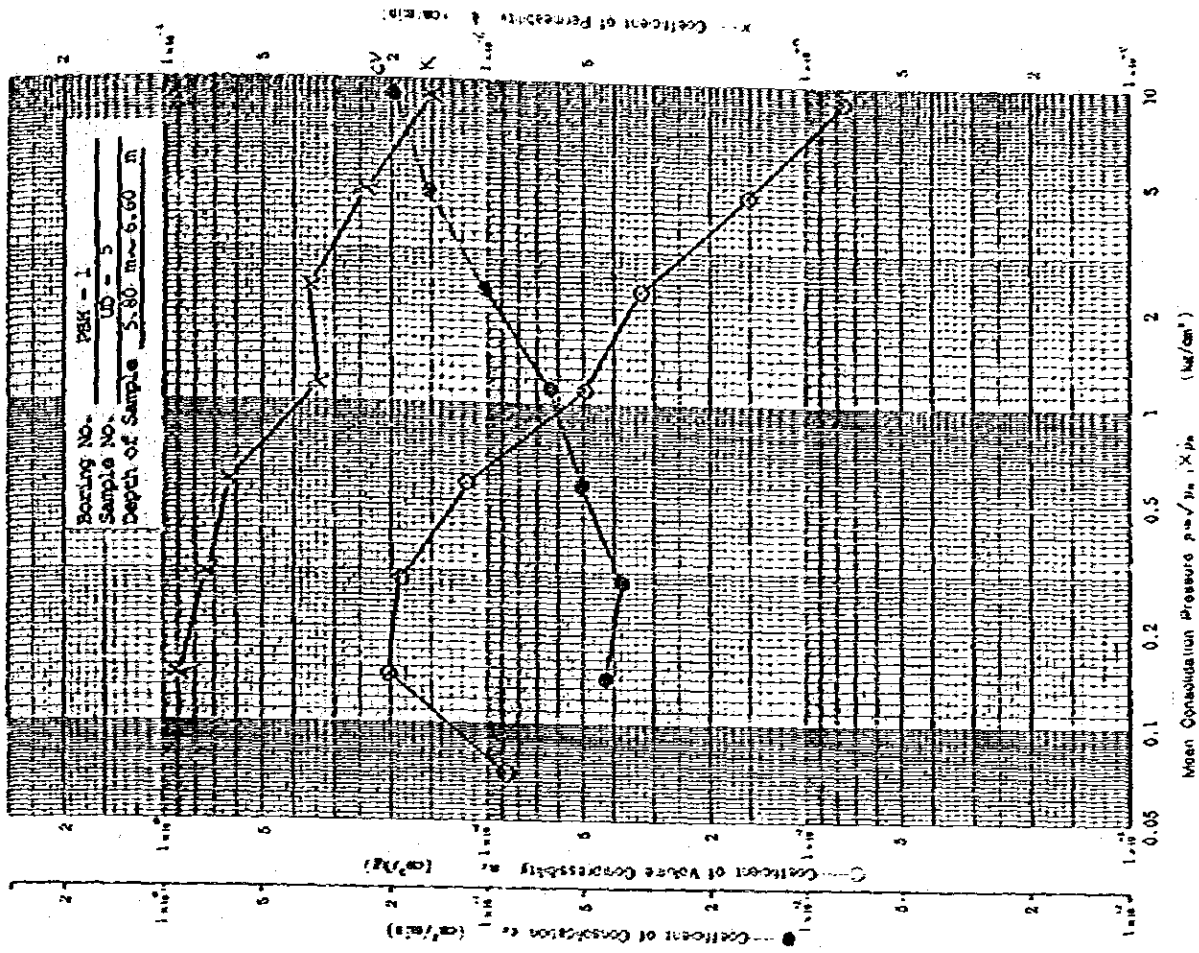
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



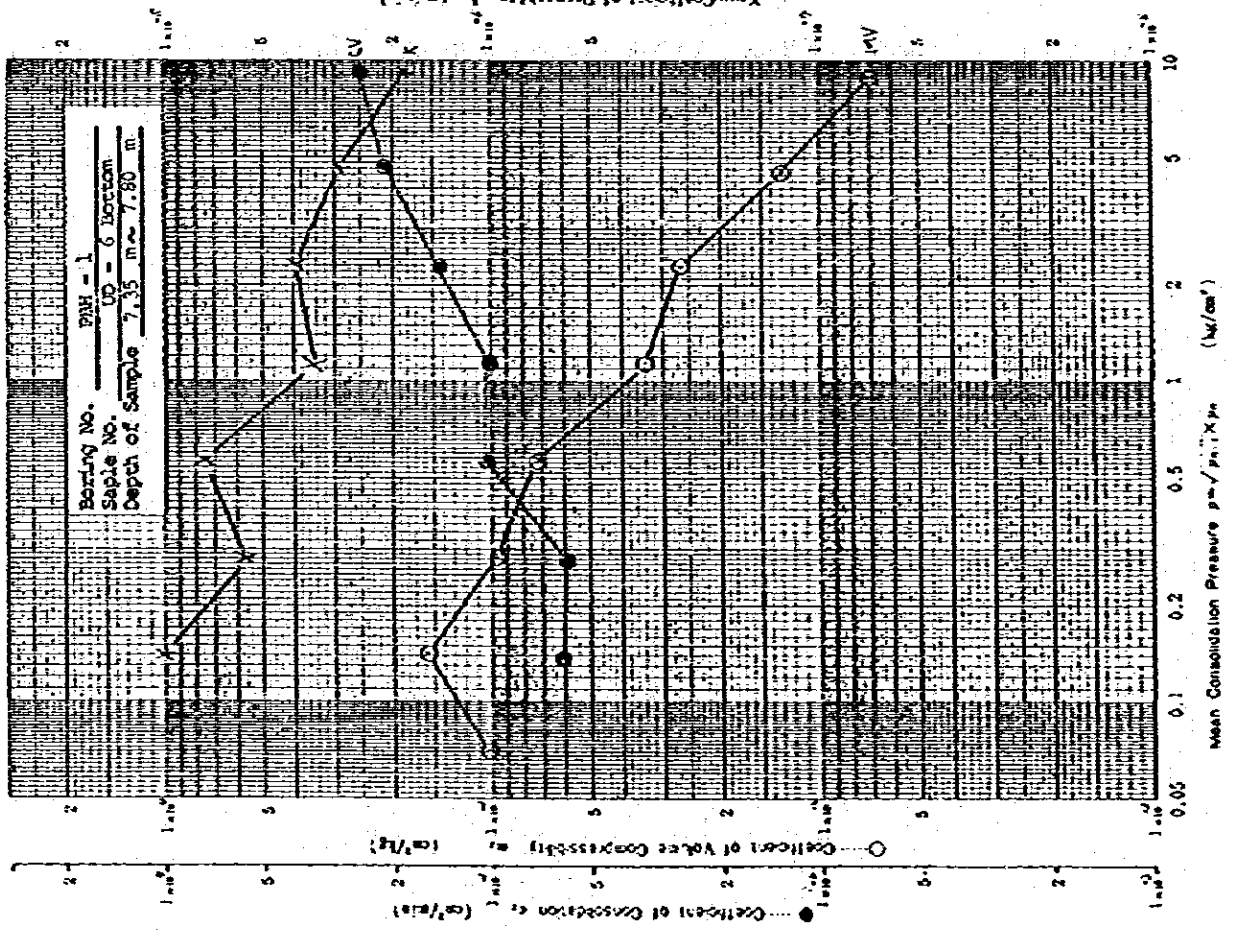
CONSOLIDATION TEST (p-Cv, mv, k, curves)



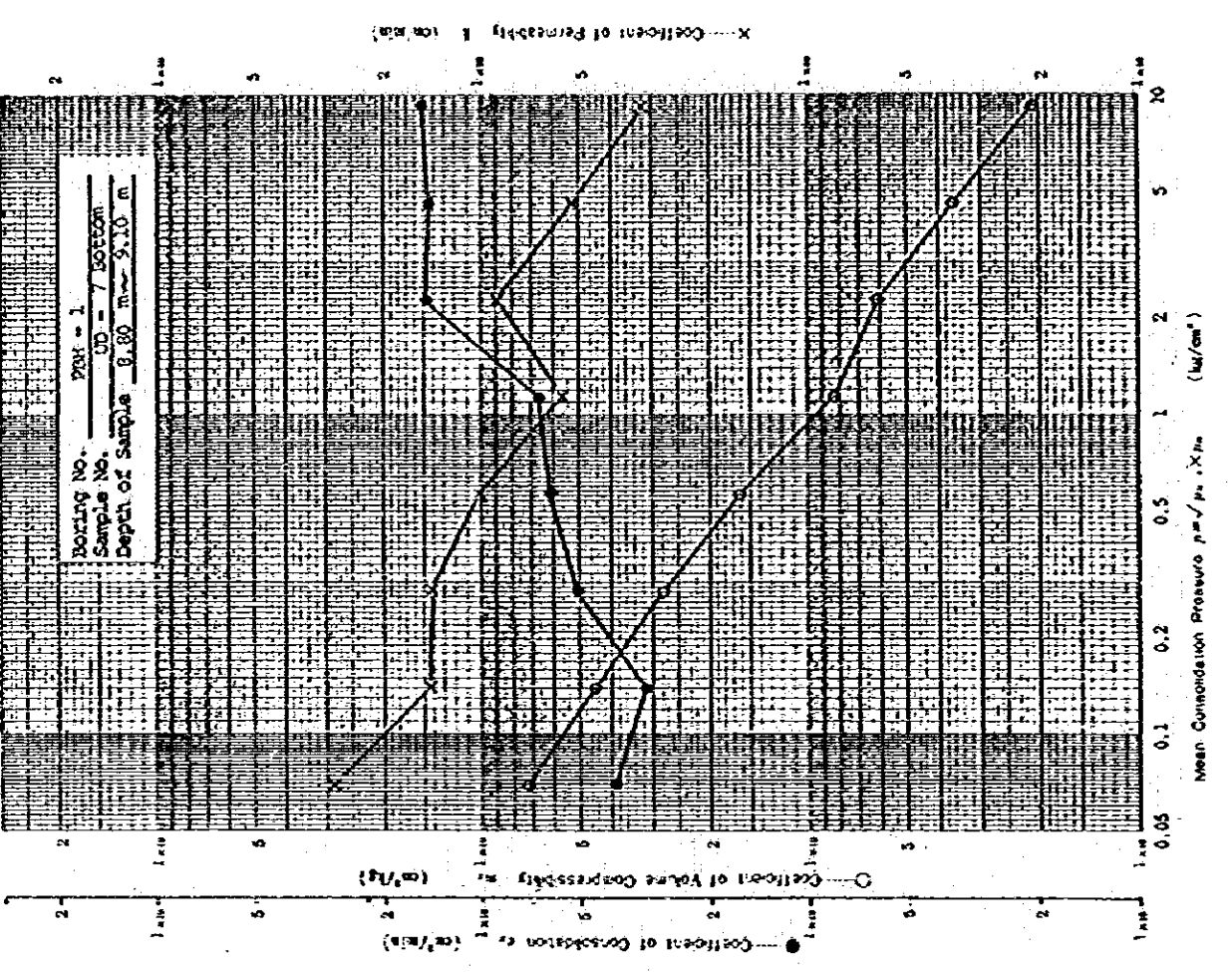
CONSOLIDATION TEST (p-Cv, mv, k, curves)



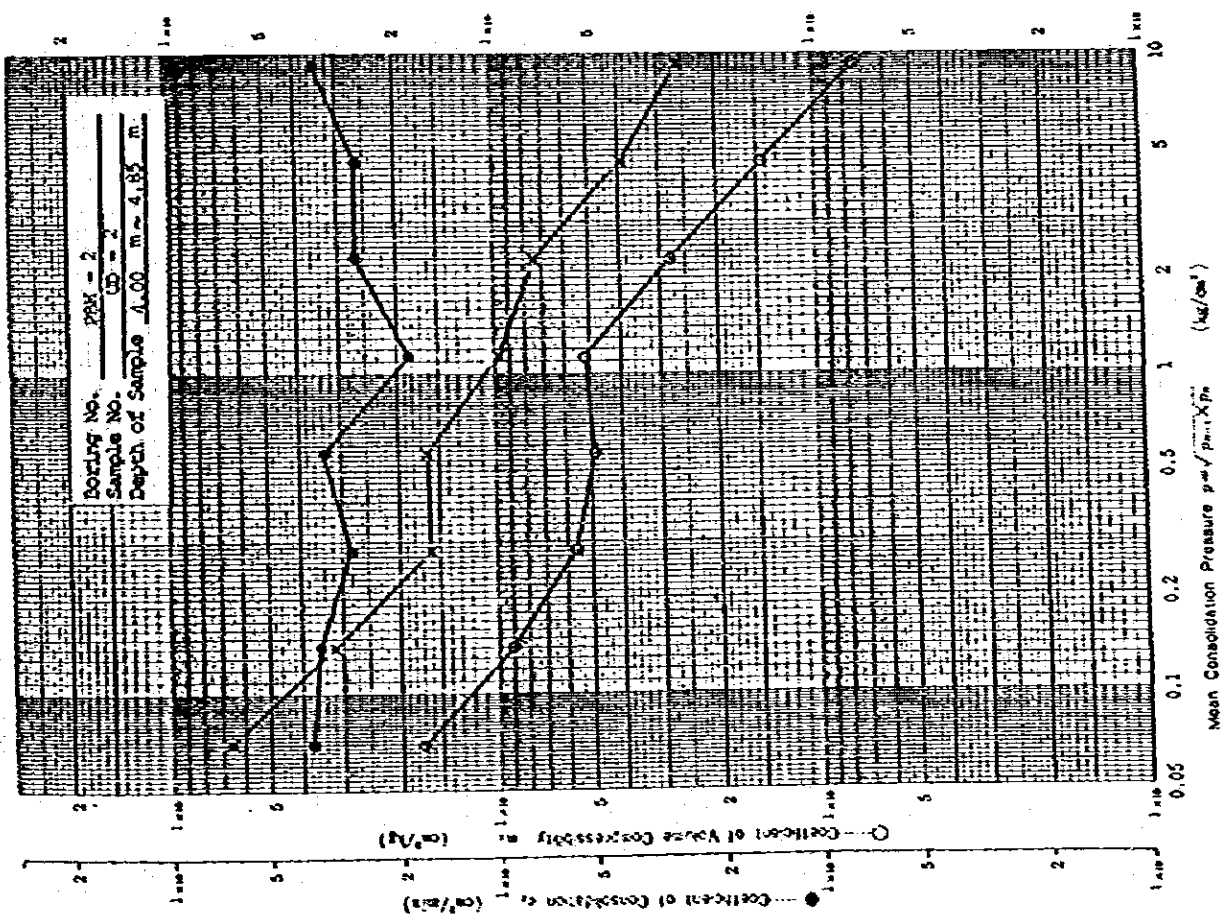
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



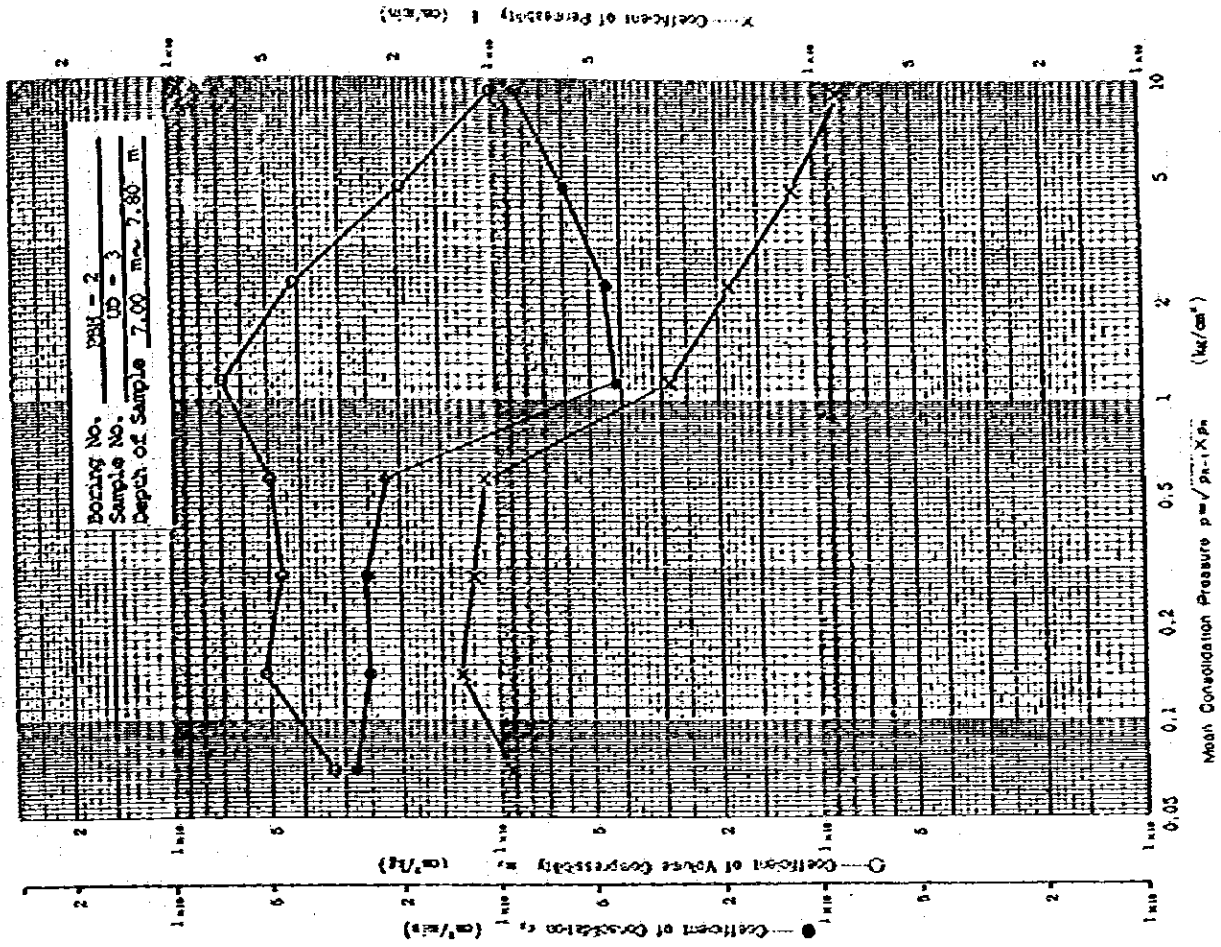
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



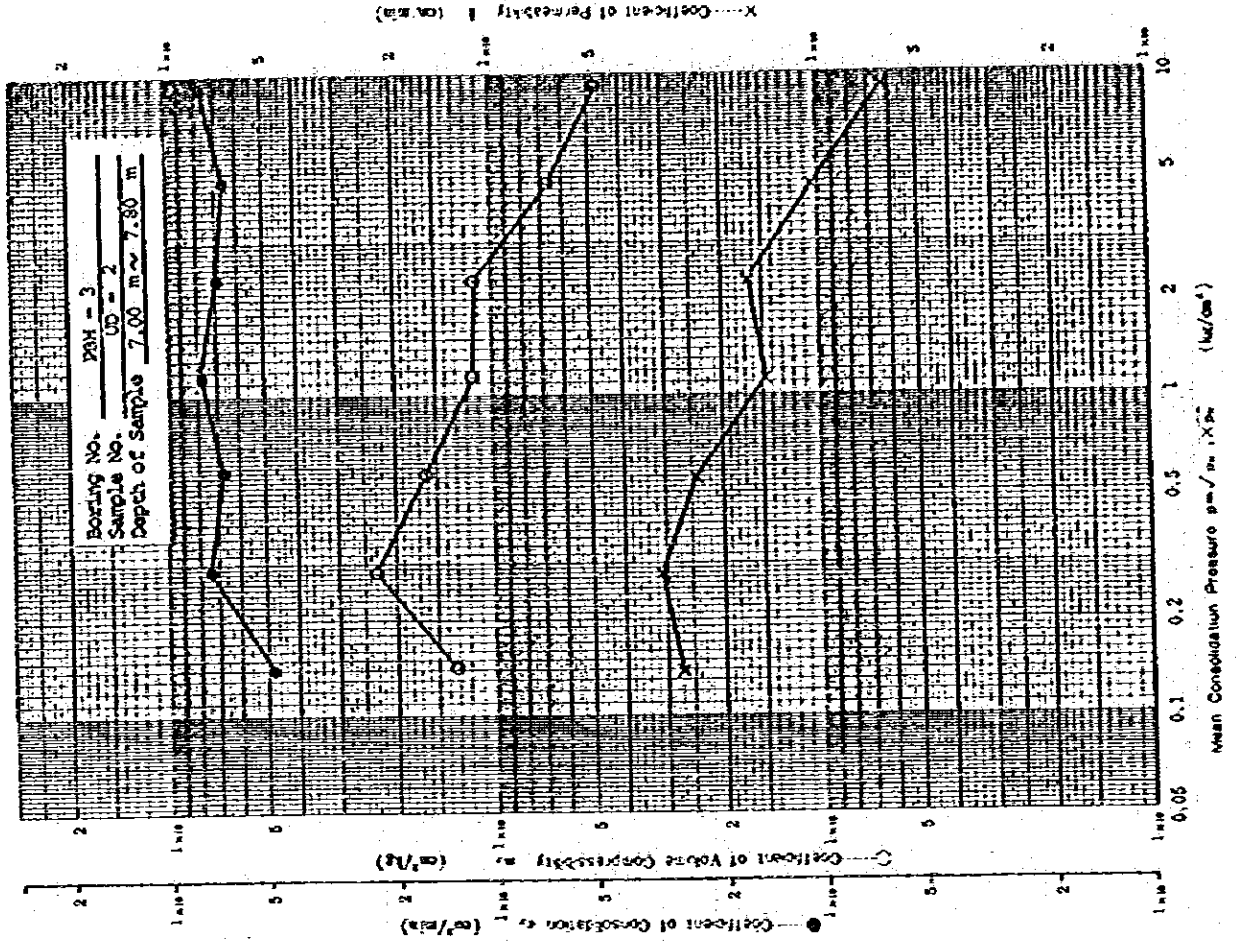
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



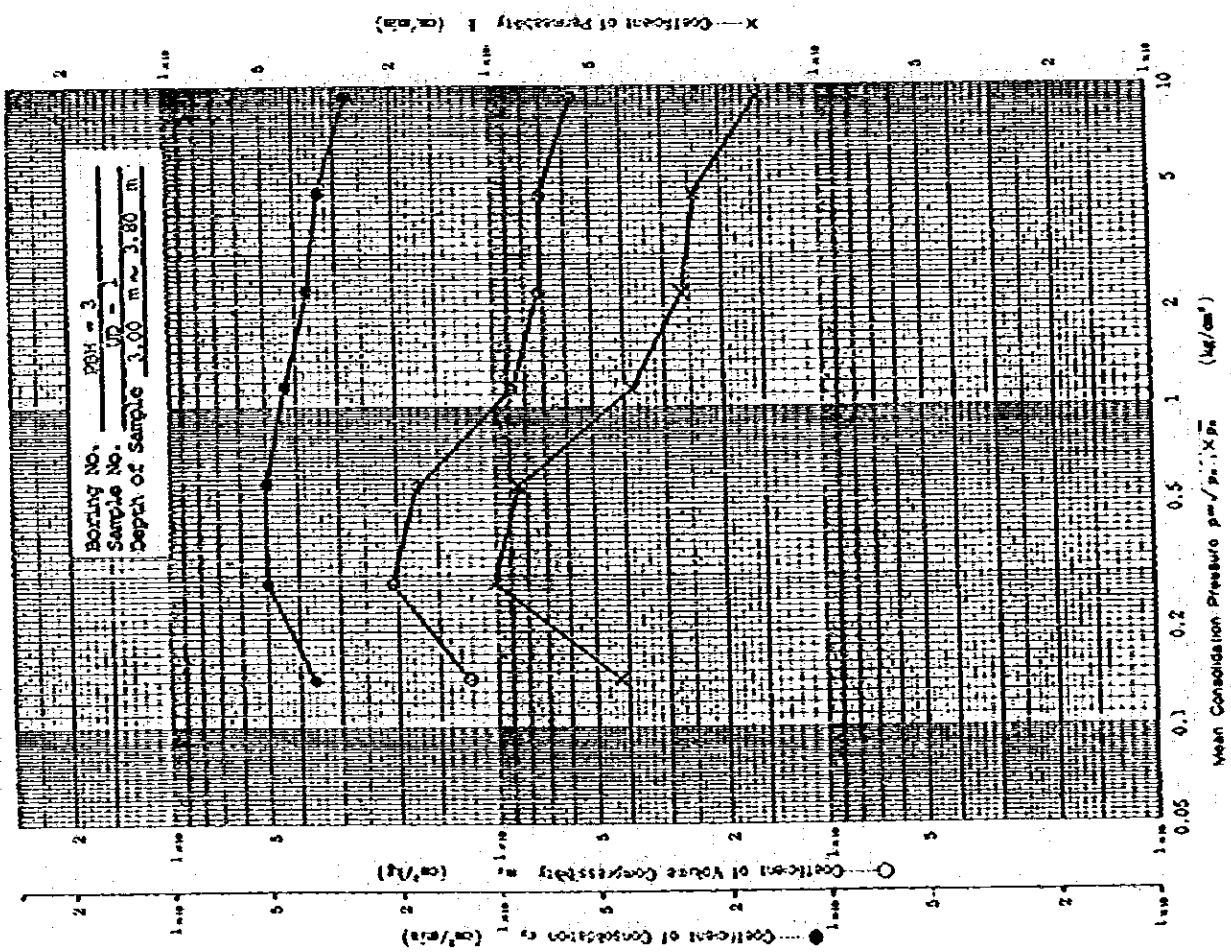
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



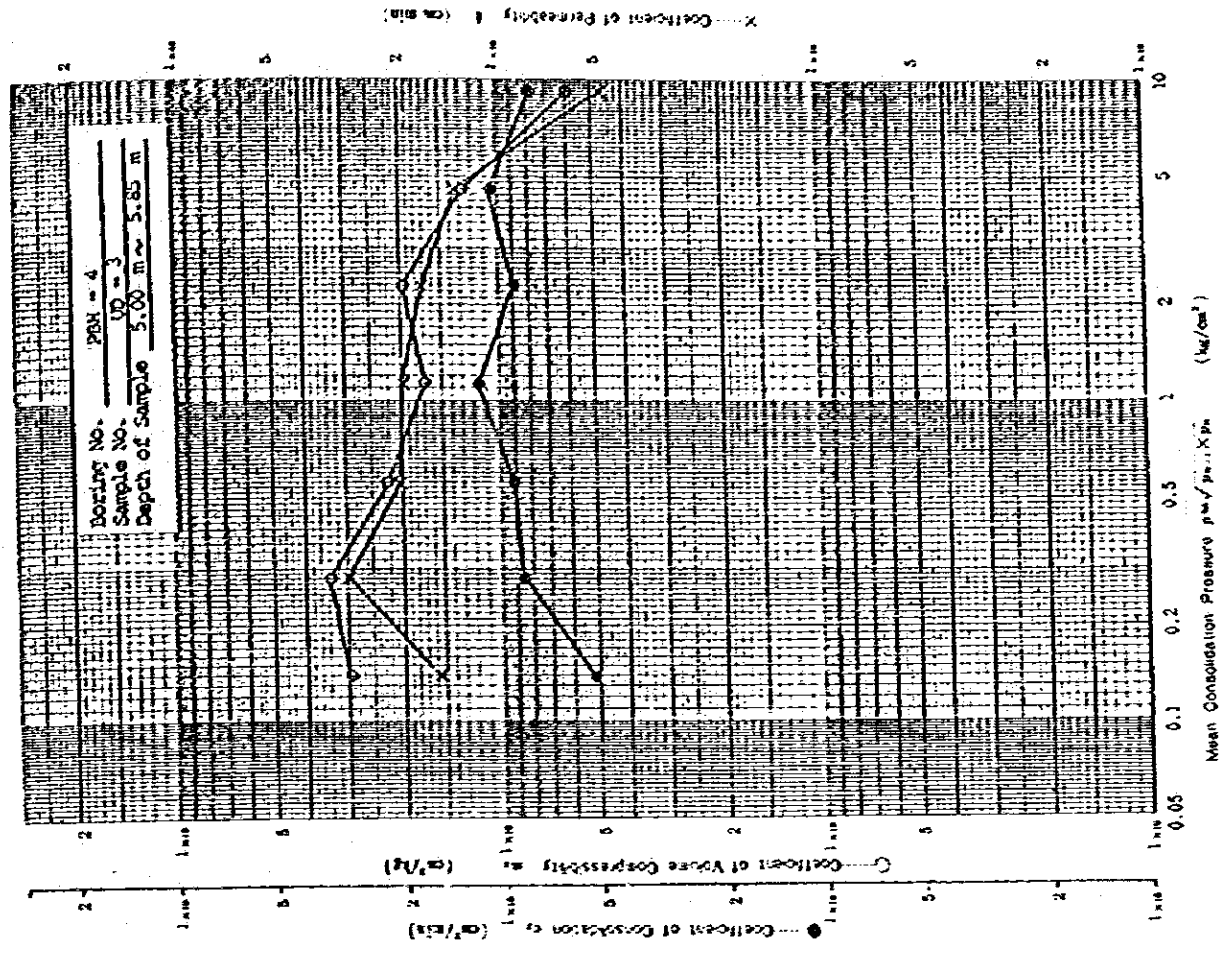
CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)



CONSOLIDATION TEST (\bar{p} - e_v , mv, k, curves)

