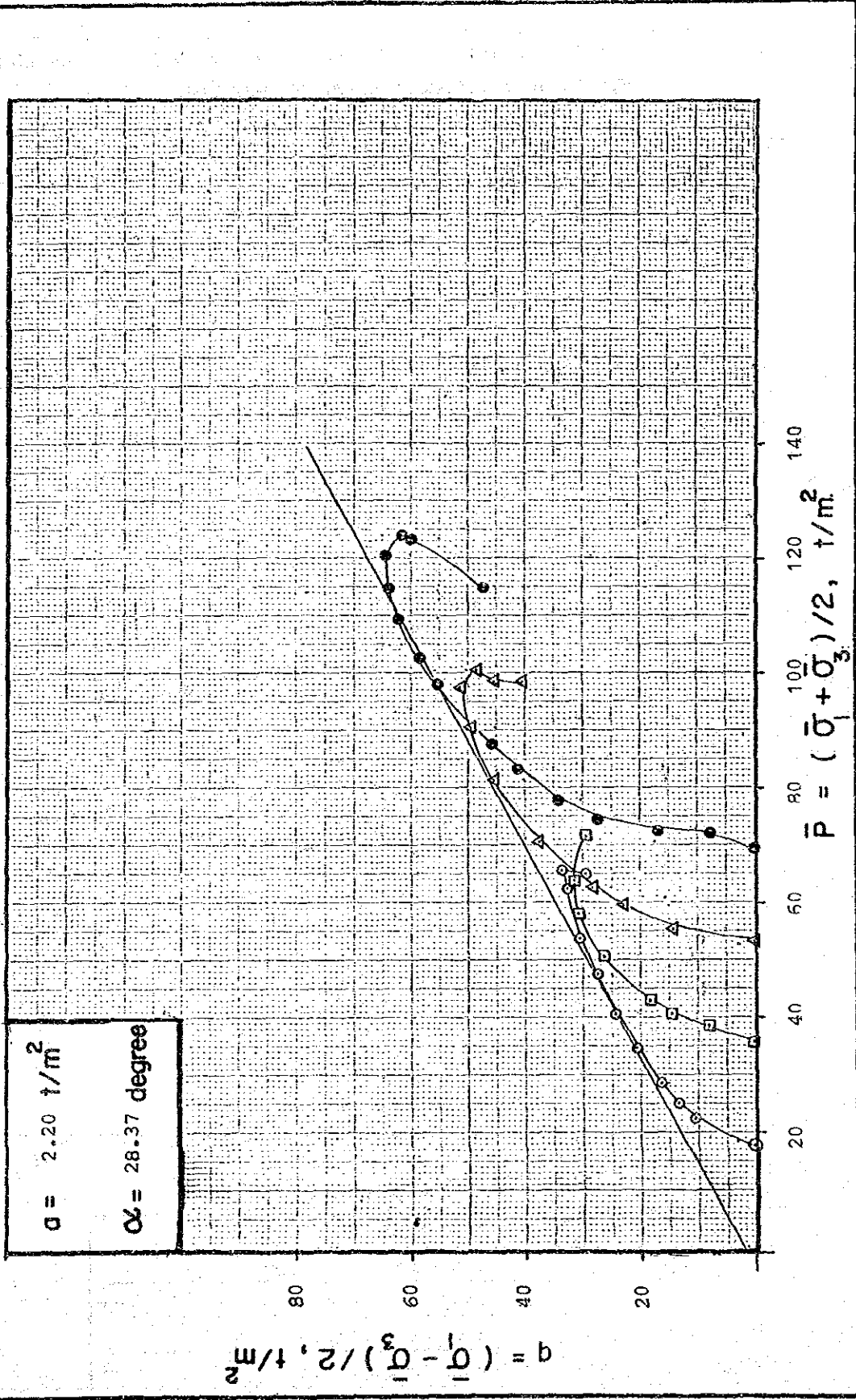
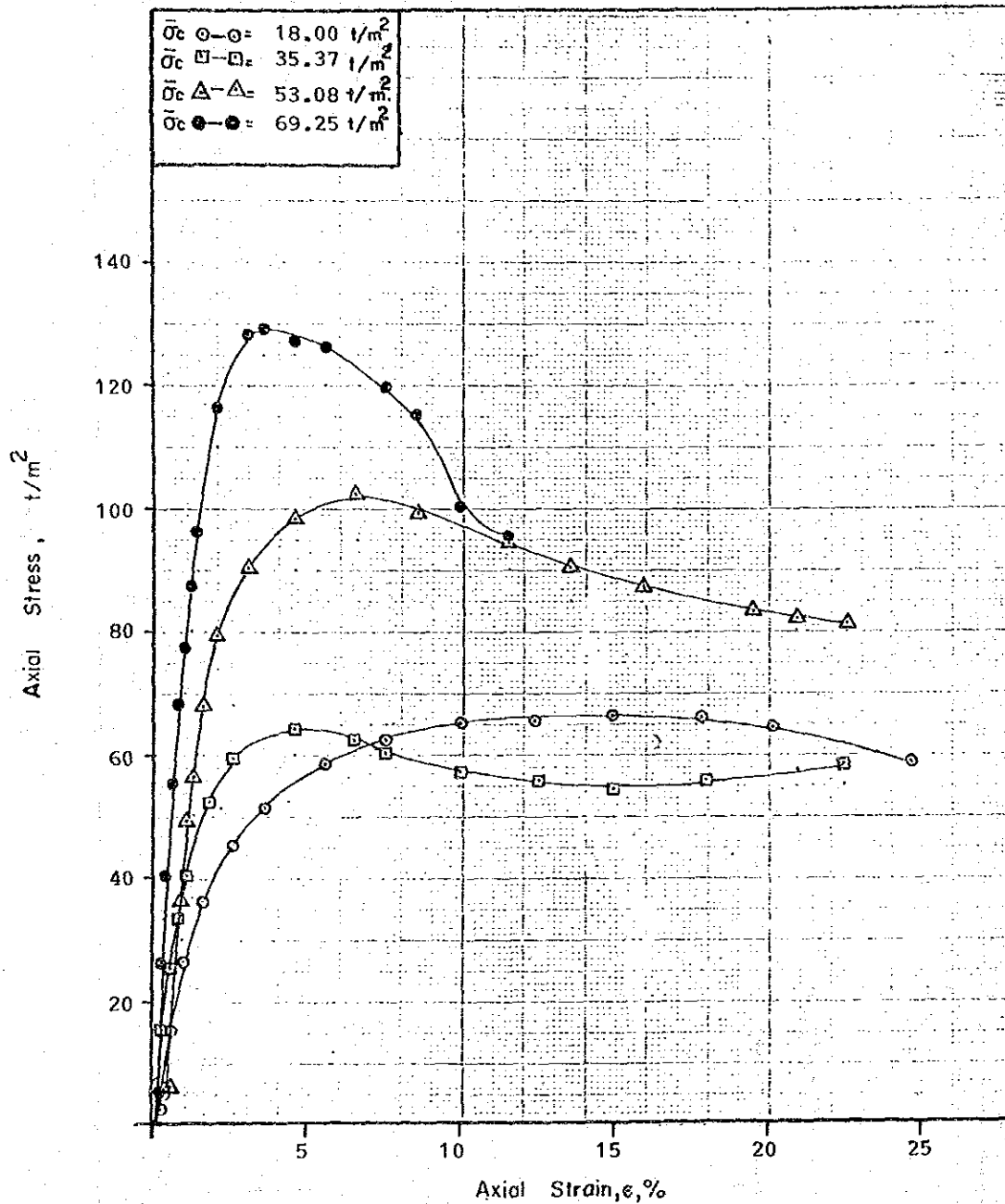


MATERIAL TESTING SECTION GEOLOGY AND SOIL ENGINEERING DIVISION.  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.

PROJECT. LAM TA KONG  
 SAMPLE NO. PU-1 | DATE. 10/11/33  
 DEPTH. 4.80 m.



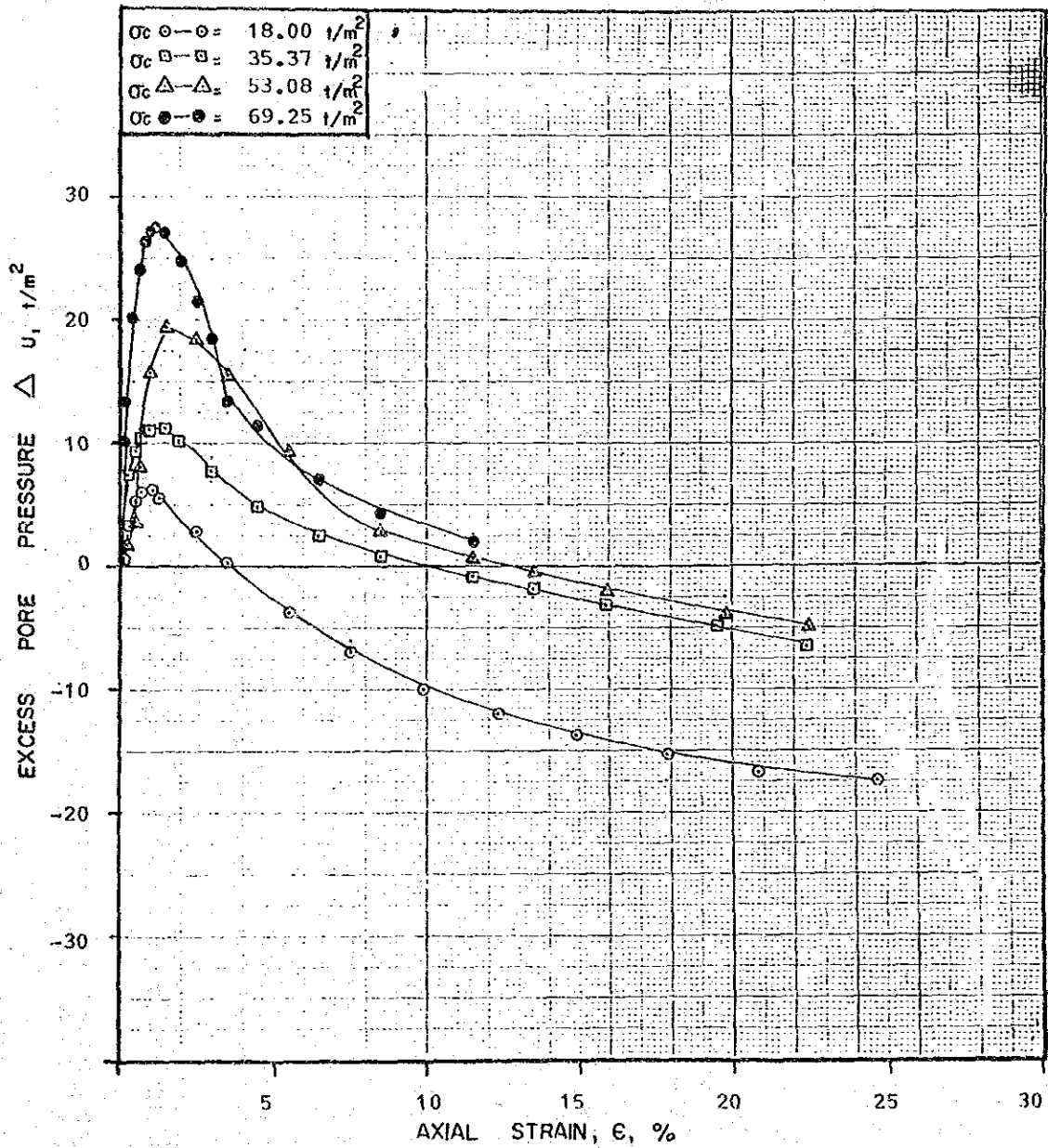
MATERIAL TESTING SECTION, GEOLOGY AND SOIL ENGINEERING DIVISION  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.  
**STRESS - STRAIN CURVE**



Project: LAM TA KONG	Location:
Type of Test: CIU	Boring No.: PC-1
Test No.:	Depth: 4.80 m.
Water Content 14.10-14.69 %	Sample Description:
Dry Unit Weight 1.880-1.920 t/m <sup>3</sup>	By Compressi Stress t/m <sup>2</sup>

MATERIAL TESTING SECTION,  
GEOLOGY AND SOIL ENGINEERING DIVISION,  
SURVEY AND ECOLOGY DEPARTMENT, EGAT.

**PORE PRESSURE VS. STRAIN**



PROJECT. LAM TA KONG	LOCATION.
TYPE OF TEST. CIU	BORING NO. PU-1
TEST NO.	DEPTH 4.80 m.
WATER CONTENT. 14.10-14.69 %	SAMPLE DESCRIPTION
DRY UNIT WEIGHT. 1.880-1.920 $t/m^3$	TESTED BY
BY COMPRESSION STRESS $t/m^2$	

TRIAXIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAN TA KONG TP or RH PU-3 ,Depth = 5.00 m. ,Specimen No. = 1  
 Type of Specimen ,Strain rate (aa./min) = 0.1 ,Type of Test : CIU

Init.Height(ca) = 28.61 ,Init.Diameter(ca) = 10.59 ,Init.Area (sq.ca) = 88.881 V0= 1815.35  
 Cell Pressure = 55.00 psi., = 3.87 kg/sq.cm. ,Init.Pore Pressure rdg. = 29.000 psi. 2.04 kg/sq.ca  
 Rack Pressure = 30.00 psi.,  
 Eff.Conf.Pressure = 26.00 psi., = 1.828 kg/sq.cm. ,Proving Ring Constant = 0.8259 kg/div.

Dry Density = 1.785 ton/cu.m at Water Content = 14.55 % by Comp. Stress = kgf/sq.c  
 \*B\* Value= 97.3

Volume Change = 13.30 cc. Hc. = 28.54 cm. Vc= 1796.75 cc Ac= 87.49 sq.ca  
 Prerotation date : 22/11/33 Saturation date : 22/11/33  
 Consolidation date: 9/11/33 Shearing date : 10/11/33

Deform. Load Dial	Pore(u)	Strain	Cor. Area	Dev. Stress	Excess u	Hor. DS	A-Para	PI Eff.	PS Eff.	Eff. P	Eff. Q
kg/cm. Rdg. (div)	100-l psi	%	sq.ca	kg/sq.ca	kg/sq.ca			kg/sq.ca	kg/sq.ca	KG/SQ.CM	KG/SQ.CM
0.0	0.0	290	87.40	0.00	0.00	0.00	0.00	1.83	1.83	1.83	0.00
5.0	17.0	293	87.50	0.16	0.02	0.09	0.13	1.97	1.81	1.89	0.00
15.0	35.0	295	87.54	0.33	0.04	0.10	0.11	2.12	1.79	1.96	0.17
25.0	47.0	300	87.58	0.44	0.07	0.24	0.16	2.20	1.76	1.93	0.21
40.0	54.0	304	87.65	0.51	0.10	0.20	0.19	2.24	1.73	1.98	0.25
55.0	57.0	304	87.71	0.54	0.10	0.29	0.18	2.27	1.73	2.00	0.27
70.0	61.0	306	87.70	0.57	0.11	0.31	0.20	2.29	1.72	2.00	0.25
90.0	110.0	308	87.86	1.03	0.49	0.57	0.48	2.37	1.54	1.85	0.50
110.0	140.0	322	87.95	1.31	0.72	0.72	0.55	2.43	1.11	1.77	0.66
130.0	150.0	411	88.03	1.40	0.85	0.81	0.57	2.46	0.98	1.72	0.71
150.0	174.0	424	88.12	1.63	0.94	0.89	0.58	2.52	0.89	1.70	0.80
170.0	187.0	433	88.21	1.75	1.01	0.96	0.57	2.57	0.82	1.70	0.80
180.0	192.0	435	88.25	1.80	1.02	0.98	0.57	2.61	0.81	1.71	0.90
200.0	206.0	440	88.34	1.93	1.05	1.05	0.55	2.70	0.77	1.74	0.91
220.0	215.0	442	88.42	2.01	1.07	1.10	0.53	2.77	0.76	1.76	1.00
240.0	220.0	442	88.51	2.05	1.07	1.12	0.52	2.81	0.74	1.79	1.01
260.0	234.0	444	88.60	2.18	1.09	1.19	0.50	2.93	0.75	1.84	1.00
300.0	250.0	444	88.77	2.33	1.00	1.27	0.47	3.07	0.75	1.91	1.10
350.0	265.0	443	88.99	2.46	1.08	1.35	0.44	3.21	0.75	1.98	1.20
400.0	275.0	441	89.21	2.55	1.06	1.39	0.42	3.31	0.77	2.04	1.27
500.0	292.0	437	89.66	2.69	1.03	1.47	0.38	3.48	0.79	2.14	1.34
600.0	308.0	431	90.11	2.82	0.99	1.54	0.35	3.66	0.80	2.25	1.41
700.0	322.0	427	90.56	2.94	0.96	1.61	0.33	3.80	0.86	2.33	1.47
900.0	349.0	415	91.49	3.15	0.88	1.72	0.28	4.10	0.95	2.52	1.56
1100.0	374.0	404	92.43	3.34	0.80	1.83	0.24	4.37	1.03	2.70	1.67
1300.0	398.0	394	93.39	3.52	0.73	1.93	0.21	4.62	1.10	2.88	1.70
1500.0	410.0	385	94.37	3.66	0.67	2.00	0.18	4.82	1.16	2.99	1.80
1700.0	437.0	375	95.37	3.78	0.60	2.07	0.16	5.01	1.23	3.12	1.80
2000.0	460.0	363	96.41	3.92	0.51	2.14	0.13	5.23	1.31	3.27	1.90
2300.0	482.0	351	98.51	4.04	0.43	2.21	0.11	5.44	1.40	3.42	2.00
2500.0	496.0	342	99.60	4.11	0.37	2.25	0.09	5.58	1.46	3.52	2.06
2700.0	507.0	336	100.72	4.16	0.32	2.27	0.08	5.66	1.50	3.58	2.06
3000.0	521.0	326	102.44	4.20	0.25	2.30	0.06	5.78	1.57	3.68	2.10
3200.0	531.0	319	103.62	4.23	0.20	2.32	0.05	5.86	1.62	3.74	2.12
3600.0	544.0	307	106.07	4.24	0.12	2.32	0.03	5.94	1.71	3.83	2.12
3900.0	544.0	300	107.99	4.16	0.07	2.28	0.02	5.92	1.76	3.84	2.06
4200.0	557.0	296	109.96	4.18	0.04	2.29	0.01	5.97	1.79	3.88	2.07
4500.0	562.0	293	112.00	4.14	0.00	2.27	0.00	5.90	1.81	3.80	2.00

TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAN TA KONG TP or BH PU-3 ,Depth = 5.00 m. ,Specimen No. = 2  
 Type of Specimen ,Strain rate (mm/min) = 0.1 ,Type of Test : CIU

Init. Height (cm) = 28.44 ,Init. Diameter (cm) = 10.57 ,Init. Area (sq. cm.) = 87.749 V<sub>0</sub> = 1793.58  
 Cell Pressure = 98.00 psi. = 6.33 kg/sq. cm. ,Init. Pore Pressure rdg. = 38.700 psi. 2.16 kg/sq. cm  
 Back Pressure = 38.00 psi.,  
 Eff. Conf. Pressure = 59.30 psi., = 4.169 kg/sq. cm. ,Proving Ring Constant = 0.4232 kg/div.

Dry Density = 1.918 ton/cu. m at Water Content = 13.28 % by Comp. Stress = kgf/sq. cm  
 "R" Value = 97.1

Volume Change = 22.08 cc. H<sub>c</sub> = 20.36 cc. V<sub>c</sub> = 1771.58 cc. A<sub>c</sub> = 87.03 sq. cm

Preparation date : 22/11/33 Saturation date : 22/11/33

Consolidation date : 9/11/33 Shearing date : 10/11/33

Deform. Load Dial	Pore (ul)	Strain	Cor. Area	Dev. Stress	Excess u	Nor. OS	A-Para	Pl Eff.	P3 Eff.	Eff. P	Eff. Q
kg. Bl mm. Rdg. (div)	10E-1 psi	%	sq. cm	kg/sq. cm	kg/sq. cm			kg/sq. cm	kg/sq. cm	KG/50. CM	KG/50. CM
0.0	0.0	307	87.03	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.87
5.0	135.0	307	87.05	0.65	0.00	0.16	0.00	4.83	4.17	4.50	0.93
15.0	263.0	341	87.09	1.20	0.24	0.31	0.19	5.21	3.93	4.57	0.94
25.0	355.0	375	87.14	1.72	0.48	0.41	0.20	5.42	3.69	4.55	0.94
40.0	469.0	417	87.20	2.28	0.77	0.55	0.34	5.67	3.40	4.53	1.14
55.0	570.0	460	87.26	2.76	1.08	0.65	0.39	5.86	3.09	4.40	1.30
70.0	653.0	498	87.33	3.16	1.29	0.76	0.41	6.05	2.88	4.46	1.50
90.0	750.0	521	87.41	3.63	1.50	0.87	0.41	6.30	2.66	4.43	1.62
110.0	850.0	543	87.50	4.01	1.66	0.96	0.41	6.52	2.51	4.52	2.01
130.0	950.0	558	87.59	4.38	1.76	1.03	0.41	6.70	2.40	4.56	2.15
150.0	944.0	575	87.67	4.56	1.88	1.09	0.41	6.84	2.29	4.56	2.20
170.0	986.0	583	87.76	4.75	1.94	1.14	0.41	6.98	2.23	4.61	2.30
180.0	1004.0	586	87.80	4.84	1.96	1.16	0.41	7.05	2.21	4.63	2.42
200.0	1043.0	591	87.89	5.02	2.00	1.20	0.40	7.19	2.17	4.63	2.50
220.0	1065.0	594	87.90	5.12	2.02	1.23	0.39	7.27	2.15	4.71	2.50
240.0	1095.0	595	88.07	5.21	2.02	1.25	0.39	7.36	2.14	4.75	2.60
260.0	1107.0	598	88.15	5.31	2.05	1.27	0.38	7.44	2.12	4.70	2.60
300.0	1147.0	593	88.33	5.50	2.05	1.32	0.37	7.62	2.12	4.87	2.70
350.0	1184.0	596	88.55	5.66	2.03	1.36	0.36	7.80	2.14	4.97	2.80
400.0	1215.0	596	88.77	5.79	2.03	1.39	0.35	7.93	2.14	5.03	2.91
500.0	1269.0	589	89.22	6.02	1.99	1.44	0.33	8.21	2.19	5.20	3.01
600.0	1316.0	580	89.67	6.21	1.92	1.49	0.31	8.46	2.25	5.36	3.11
700.0	1365.0	570	90.13	6.41	1.85	1.54	0.29	8.73	2.32	5.52	3.20
800.0	1450.0	551	91.05	6.74	1.72	1.62	0.25	9.19	2.45	5.82	3.30
1100.0	1530.0	529	92.00	7.04	1.56	1.69	0.22	9.65	2.61	6.13	3.50
1300.0	1606.0	507	92.96	7.31	1.41	1.75	0.19	10.07	2.76	6.42	3.60
1500.0	1677.0	485	93.95	7.55	1.25	1.81	0.17	10.47	2.92	6.69	3.70
1700.0	1747.0	466	94.96	7.79	1.12	1.87	0.14	10.84	3.05	6.94	3.80
2000.0	1844.0	433	96.51	8.09	0.89	1.94	0.11	11.37	3.28	7.33	4.00
2300.0	1929.0	407	98.11	8.32	0.70	2.00	0.09	11.79	3.47	7.63	4.10
2500.0	1979.0	390	99.21	8.44	0.58	2.02	0.07	12.03	3.59	7.81	4.22
2700.0	2022.0	374	100.34	8.53	0.47	2.05	0.06	12.23	3.70	7.96	4.26
3000.0	2091.0	347	102.07	8.63	0.28	2.07	0.03	12.52	3.89	8.20	4.31
3200.0	2123.0	330	103.26	8.70	0.16	2.09	0.02	12.71	4.01	8.36	4.35
3500.0	2193.0	293	105.73	8.78	-0.06	2.11	-0.01	13.01	4.23	8.62	4.39
3900.0	2239.0	273	107.65	8.80	-0.24	2.11	-0.03	13.21	4.41	8.81	4.40
4200.0	2261.0	254	109.65	8.73	-0.37	2.09	-0.04	13.27	4.54	8.91	4.35
4500.0	2402.0	267	111.73	9.10	-0.28	2.16	-0.03	13.55	4.45	9.08	4.50
5000.0	2802.0	267	115.74	9.91	-0.77	2.11	-0.05	13.24	3.35	9.94	4.30

TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAN TA KONG TP or BH PU-3 ,Depth = 5.00 m. ,Specimen No. = 3  
 Type of Specimen ,Strain rate (mm./min) = 0.1 ,Type of Test : CIU

Init.Height(cm.) = 20.41 ,Init.Diameter(cm) = 10.57 ,Init.Area (sq.cm.) = 87.749 V<sub>0</sub>= 1790.95  
 Cell Pressure = 130.00 psi., = 9.14 kg/sq.cm. ,Init.Pore Pressure rdg. = 30.900 psi. 2.17 kg/sq.cm  
 Rack Pressure = 30.00 psi.,  
 Eff.Conf.Pressure = 99.10 psi., = 6.960 kg/sq.cm. ,Proving Ring Constant = 1.0700 kg/div.

Dry Density = 1.860 ton/cu.m at Water Content = 15.11 % by Comp. Stress = kgf/sq.c.  
 "B" Value= 91.2

Volume Change = 50.00 cc. H<sub>c</sub> = 20.22 cm. V<sub>c</sub> = 1740.95 cc. A<sub>c</sub> = 86.10 sq.cm  
 Prerotation date : 22/11/33 Saturation date : 22/11/33  
 Consolidation date: 9/11/33 Shearing date : 10/11/33

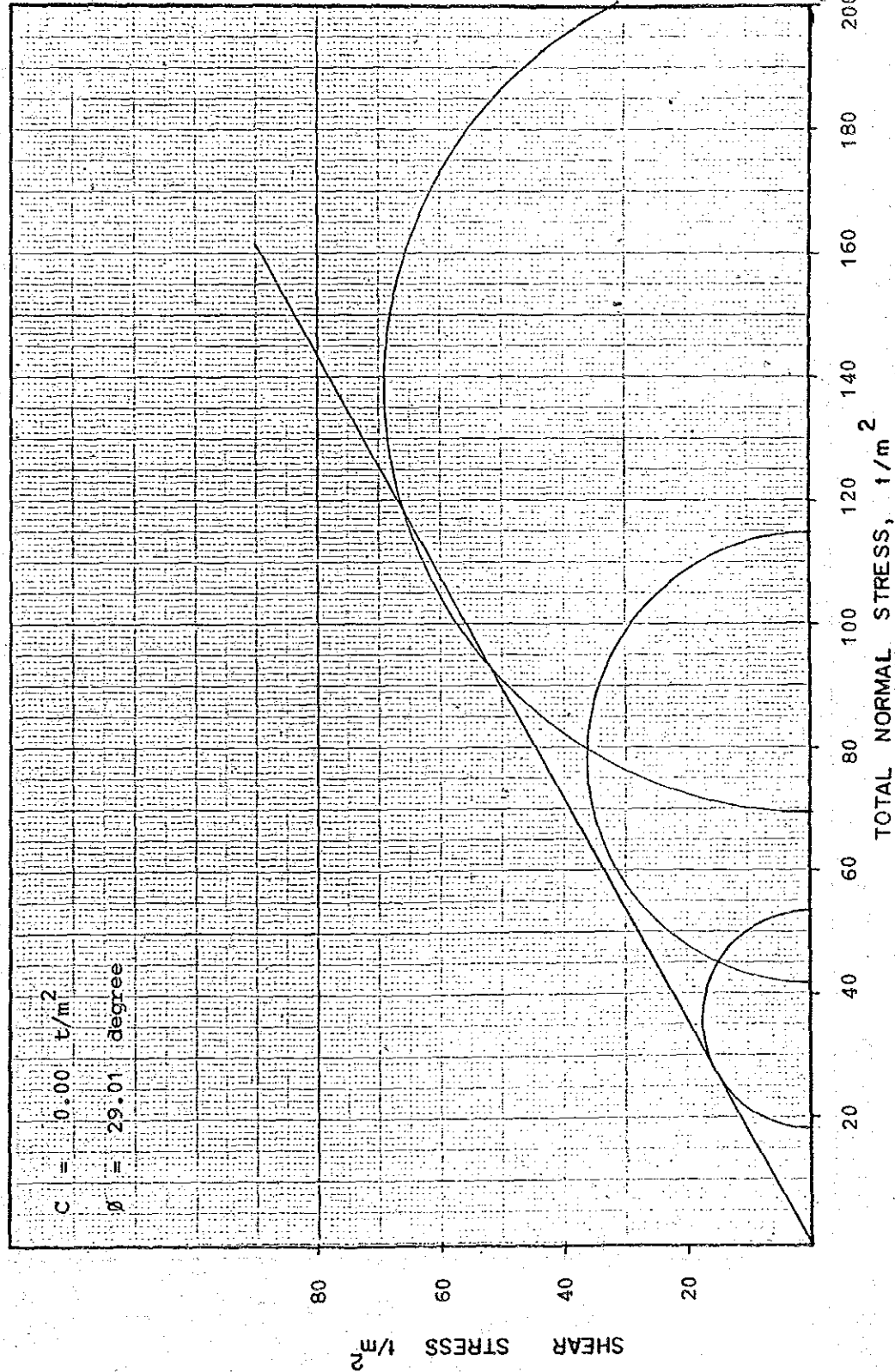
Deform. Load Dial	Pore(u)	Strain	Cor. Area	Dev. Stress	Excess u	Hor. DS	A-Para	P1 Eff.	P3 Eff.	Eff. P	Eff. Q
kg/cm. Rdg. (div)	*10E-1 psi	%	sq.cm	kg/sq.cm	kg/sq.cm			kg/sq.cm	kg/sq.cm	KG/50.CM	KG/50.CM
0.0	0.0	389	86.60	8.00	0.00	0.00	0.00	6.97	6.97	6.97	0.0
5.0	19.0	389	86.02	8.24	0.60	0.03	0.00	7.20	6.97	7.09	0.1
15.0	160.0	363	86.07	8.16	2.33	0.30	0.16	8.92	6.59	7.76	1.1
25.0	325.0	422	86.12	8.03	0.79	0.50	0.20	10.21	6.17	8.19	2.0
40.0	455.0	470	86.20	8.64	1.19	0.81	0.21	11.42	5.70	8.60	2.8
55.0	567.0	513	86.27	8.33	7.03	1.43	1.01	12.58	5.53	9.05	3.5
70.0	657.0	531	86.35	8.40	8.14	1.56	1.17	13.54	5.41	9.48	4.0
90.0	767.0	546	86.45	8.48	9.49	1.67	1.36	14.79	5.30	10.05	4.7
110.0	872.0	552	86.54	8.57	10.78	1.71	1.55	16.04	5.26	10.65	5.3
130.0	950.0	552	86.64	8.66	11.73	1.71	1.68	16.99	5.26	11.12	5.8
150.0	990.0	551	86.74	8.74	12.31	1.70	1.77	17.50	5.27	11.42	6.1
170.0	1030.0	546	86.84	8.83	12.79	1.67	1.84	18.09	5.30	11.70	6.4
180.0	1051.0	545	86.89	8.87	12.94	1.66	1.86	18.25	5.31	11.78	6.4
200.0	1072.0	541	86.99	8.96	13.19	1.63	1.89	18.53	5.34	11.93	6.6
220.0	1089.0	536	87.09	8.05	13.39	1.60	1.92	18.76	5.37	12.06	6.6
240.0	1101.0	531	87.13	8.13	13.52	1.56	1.94	18.93	5.41	12.17	6.7
260.0	1111.0	527	87.22	8.63	13.63	1.53	1.96	19.06	5.43	12.25	6.8
300.0	1120.0	516	87.40	8.81	13.81	1.46	1.98	19.32	5.51	12.42	6.9
350.0	1141.0	504	87.62	8.93	13.93	1.37	2.00	19.55	5.60	12.56	6.9
400.0	1153.0	493	87.84	8.05	14.05	1.29	2.02	19.72	5.67	12.70	7.0
500.0	1173.0	470	88.20	8.22	14.22	1.19	2.04	20.00	5.70	12.89	7.1
600.0	1180.0	464	88.73	8.33	14.33	1.09	2.06	20.28	5.83	13.04	7.1
700.0	1198.0	453	89.19	8.37	14.37	1.01	2.06	20.33	5.96	13.14	7.1
800.0	1211.0	437	90.11	8.30	14.30	0.90	2.06	20.45	6.07	13.26	7.1
1100.0	1217.0	425	91.05	8.30	14.30	0.82	2.05	20.45	6.15	13.30	7.1
1300.0	1222.0	416	92.02	8.21	14.21	0.75	2.04	20.43	6.22	13.32	7.1
1500.0	1210.0	400	93.00	8.01	14.01	0.70	2.01	20.29	6.27	13.28	7.0
1700.0	1212.0	403	94.00	8.66	13.60	0.66	1.98	20.10	6.31	13.20	6.9
2000.0	1219.0	395	95.55	8.60	13.60	0.60	1.96	20.01	6.36	13.19	6.8
2300.0	1233.0	385	97.15	8.53	13.53	0.53	1.95	20.01	6.43	13.22	6.7
2500.0	1244.0	370	98.25	8.49	13.55	0.49	1.94	20.03	6.48	13.26	6.7
2700.0	1250.0	371	99.37	8.44	13.46	0.44	1.93	19.99	6.53	13.26	6.7
3000.0	1260.0	362	101.10	8.34	13.34	0.37	1.91	19.93	6.59	13.26	6.6
3200.0	1266.0	353	102.29	8.31	13.24	0.31	1.90	19.90	6.66	13.28	6.6
3600.0	1276.0	341	104.75	8.22	13.03	0.22	1.87	19.78	6.74	13.26	6.5
3900.0	1291.0	334	106.60	8.19	12.95	0.19	1.86	19.74	6.79	13.27	6.4
4200.0	1307.0	332	103.67	8.16	12.87	0.16	1.85	19.67	6.81	13.24	6.4
4500.0	1321.0	327	110.75	8.13	12.76	0.13	1.83	19.60	6.84	13.22	6.3

MATERIAL TESTING SECTION GEOLOGY AND SOIL ENGINEERING DIVISION  
SURVEY AND ECOLOGY DEPARTMENT, EGAT.

PROJECT LAM TA KHONG

SAMPLE NO. PU-3

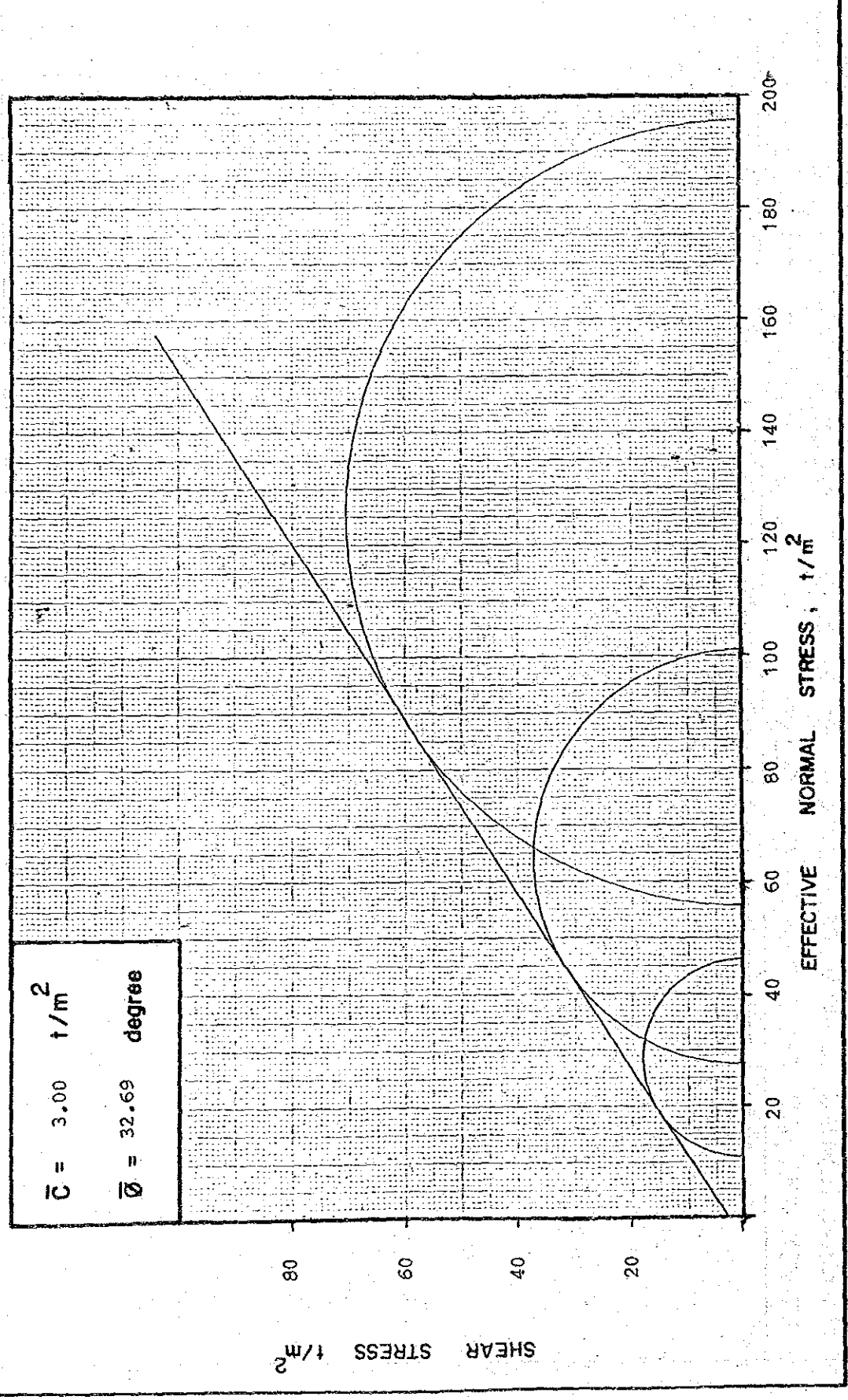
DEPT. 5.00 m. DATE 6/11/33



PROJECT LAM TA KHONG  
 SAMPLE NO. PU-3  
 DEPTH 5.00 m DATE 6/11/33

MATERIAL TESTING SECTION, GEOLOGY AND SOIL ENGINEERING DIVISION  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.

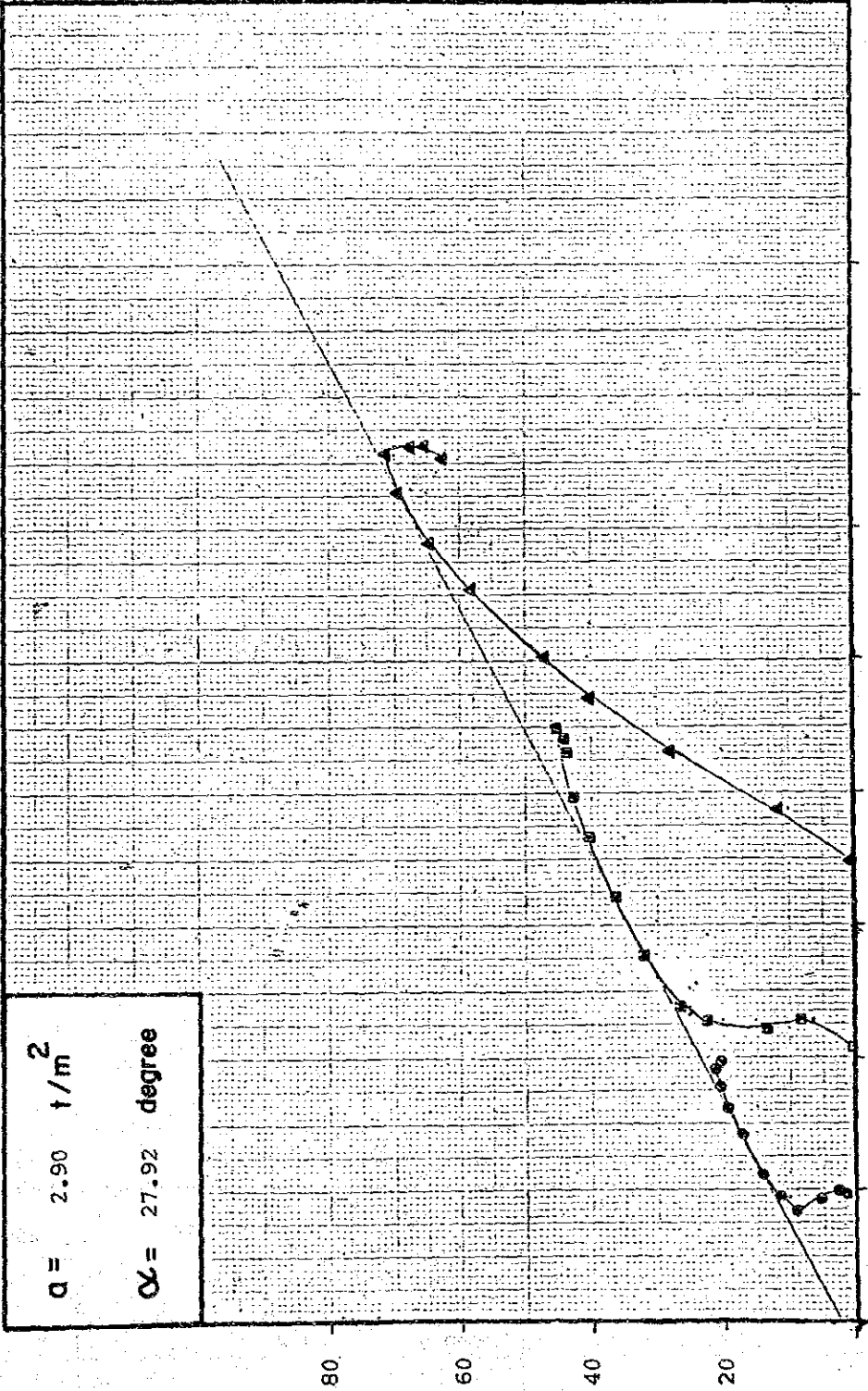
$\bar{C} = 3.00 \text{ t/m}^2$   
 $\bar{\phi} = 32.69 \text{ degree}$





PROJECT. LAM TA KHONG  
 SAMPLE NO. PU-3  
 DEPTH. 5.00 m. DATE. 16/11/38

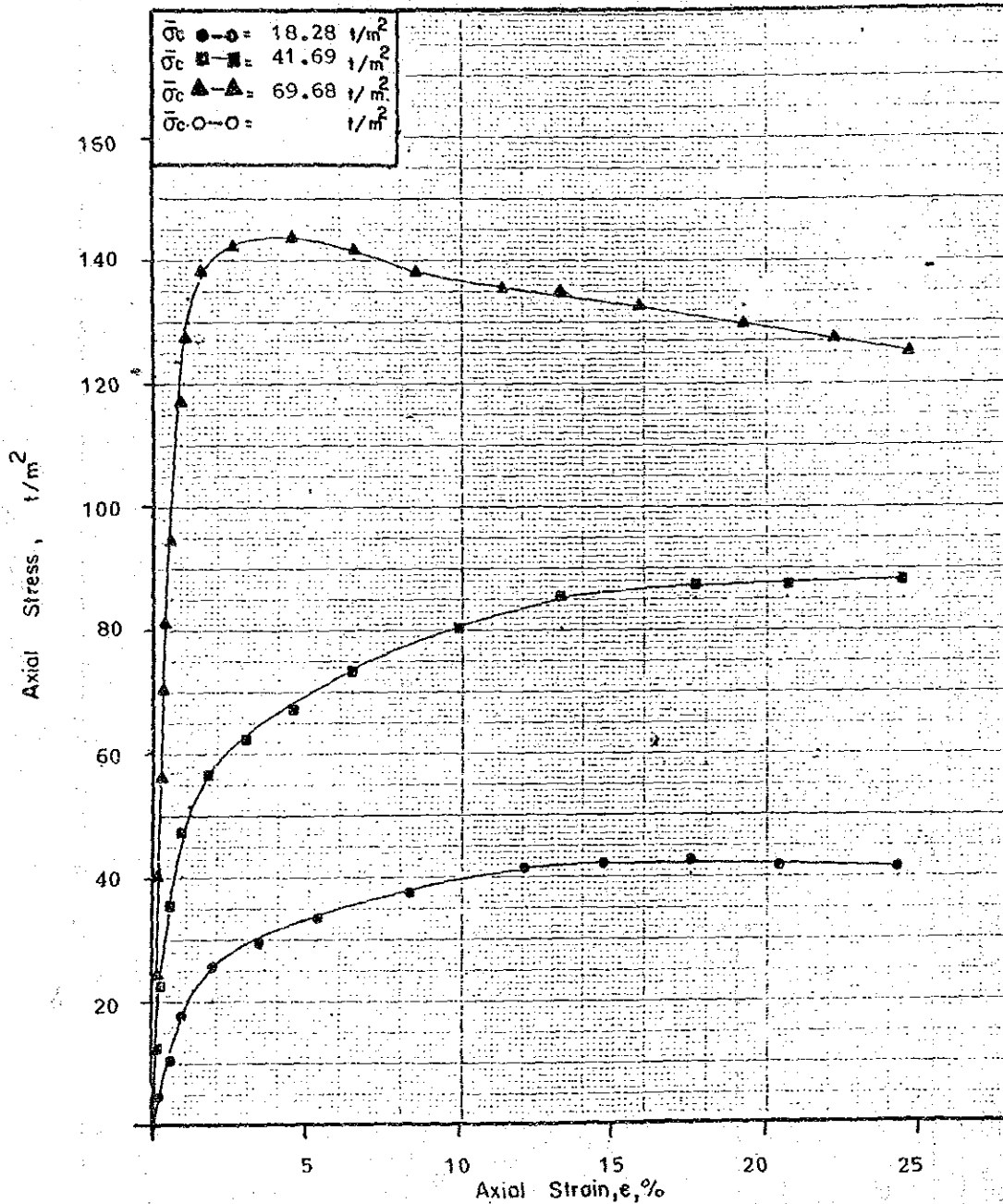
MATERIAL TESTING SECTION, GEOLOGY AND SOIL ENGINEERING DIVISION  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.



$q = 2.90 \text{ t/m}^2$   
 $\alpha = 27.92 \text{ degree}$

$$q = (\bar{\sigma}_1 - \bar{\sigma}_3) / 2, \text{ t/m}^2 = b$$

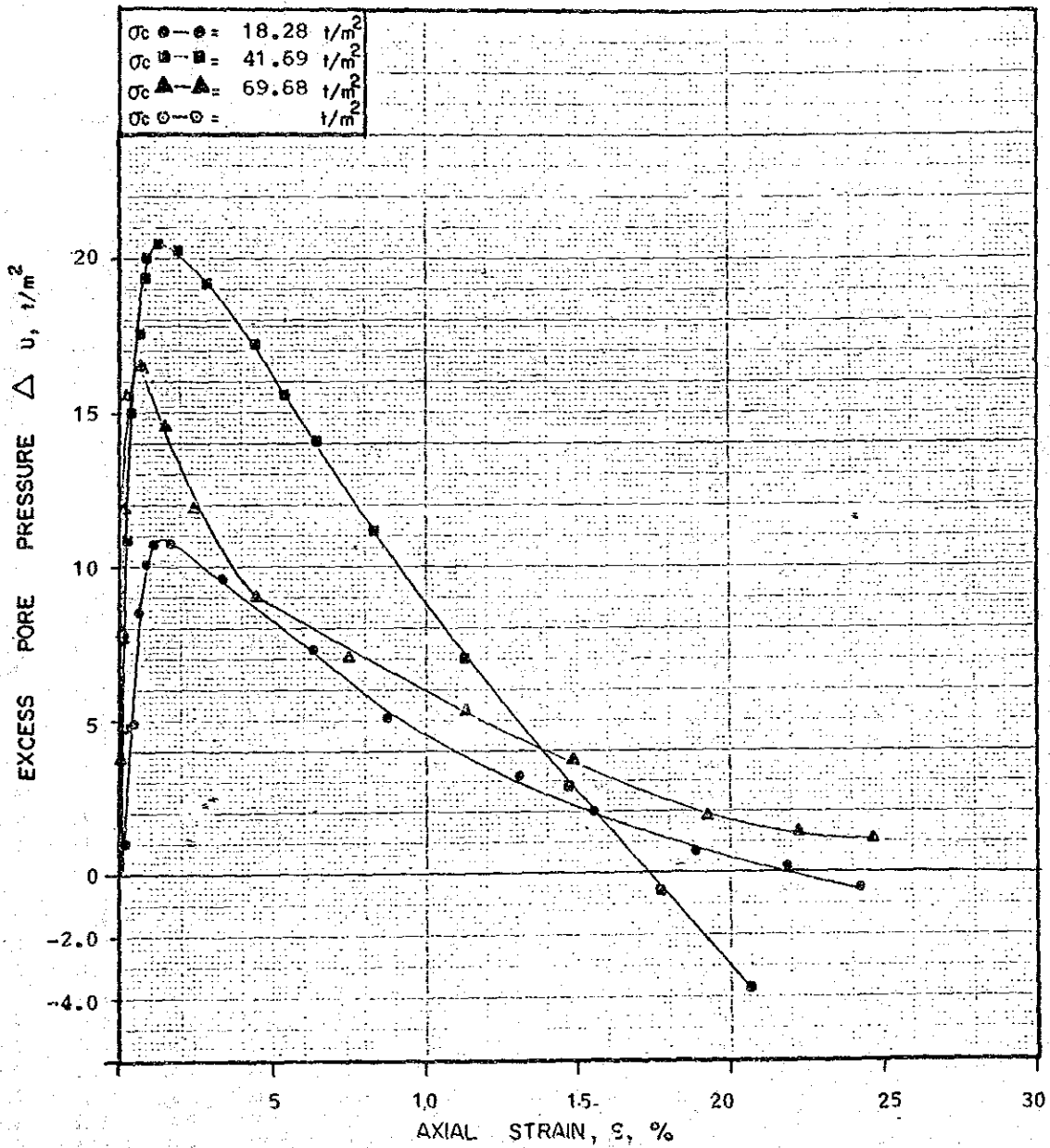
MATERIAL TESTING SECTION, GEOLOGY AND SOIL ENGINEERING DIVISION  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.  
**STRESS - STRAIN CURVE**



Project: LAM TA KHONG	Location:
Type of Test: CIU	Boring No.: PU-3
Test No.:	Depth: 5.00 m.
Water Content 13.28-15.11 %	Sample Description:
Dry Unit Weight 1.785-1.910 t/m <sup>3</sup>	By Compressi Stress t/m <sup>2</sup>

MATERIAL TESTING SECTION,  
 GEOLOGY AND SOIL ENGINEERING DIVISION,  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.

PORE PRESSURE VS. STRAIN



PROJECT.	LAM TA KHONG	LOCATION.	
TYPE OF TEST.	CIU	BORING NO.	PU-3
TEST NO.		DEPTH	5.00 m.
WATER CONTENT.	13.28-15.11 %	SAMPLE DESCRIPTION	
DRY UNIT WEIGHT	1.785-1.910 t/m <sup>3</sup>	TESTED BY	
BY COMPRESSION STRESS	t/m <sup>2</sup>		

TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAN TA KHONG TP or BH PU-4 ,Depth = 4.90 m. ,Specimen No. = 1  
 Type of Specimen ,Strain rate (mm./min) = 0.1 ,Type of Test : CIU

Init. Height (cm) = 28.57 ,Init. Diameter (cm) = 10.45 ,Init. Area (sq. cm.) = 85.767 V<sub>0</sub> = 1764.24  
 Cell Pressure = 55.00 psi. = 3.87 kg/sq. cm. ,Init. Pore Pressure rdg. = 28.788 psi. 2.02 kg/sq. cm  
 Back Pressure = 30.00 psi.  
 Eff. Conf. Pressure = 26.30 psi. = 1.849 kg/sq. cm. ,Proving Ring Constant = 0.0259 kg/div.

Dry Density = 1.751 ton/cu. m at Water Content = 13.58 % by Comp. Stress = kgf/sq. cm  
 \*R<sub>0</sub> Value = 89.61

Volume Change = 25.88 cc. Hc = 20.48 cm. Vc = 1748.44 cc. Ac = 84.99 sq. cm  
 Preparation date : 14/11/33 Saturation date : 14/11/33  
 Consolidat 7.00 15/11/33 Shearing date : 19/11/33

Deforma. #0.01 mm. Rdg. (div)	Load Dial Pore (psi)	Strain %	Cor. sq. cm	Area Dev. kg/sq. cm	Stress Excess kg/sq. cm	u	Nor. DS	A-Para	P1 Eff. kg/sq. cm	P3 Eff. kg/sq. cm	Eff. P KG/SG. CM	Eff. Q KG/SG. CM
0.0	0.0	287	0.00	84.99	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.00
5.0	19.0	287	0.02	85.01	0.10	0.00	0.10	0.00	2.03	1.85	1.94	0.05
15.0	30.0	289	0.07	85.05	0.29	0.01	0.16	0.05	2.13	1.84	1.98	0.15
25.0	32.0	291	0.12	85.10	0.31	0.03	0.17	0.09	2.13	1.82	1.98	0.18
40.0	36.0	295	0.20	85.16	0.35	0.06	0.19	0.16	2.14	1.79	1.97	0.17
55.0	37.0	298	0.27	85.22	0.36	0.08	0.19	0.22	2.13	1.77	1.95	0.18
70.0	50.0	307	0.34	85.28	0.54	0.14	0.29	0.26	2.25	1.71	1.90	0.27
90.0	102.0	337	0.44	85.37	0.99	0.35	0.53	0.36	2.48	1.50	1.99	0.49
110.0	130.0	363	0.54	85.45	1.26	0.55	0.68	0.43	2.57	1.31	1.94	0.63
130.0	149.0	383	0.65	85.54	1.44	0.67	0.78	0.47	2.61	1.17	1.89	0.72
150.0	163.0	400	0.73	85.62	1.57	0.79	0.85	0.51	2.63	1.05	1.84	0.75
170.0	172.0	412	0.83	85.70	1.66	0.88	0.90	0.53	2.63	0.97	1.80	0.80
180.0	175.0	417	0.88	85.75	1.69	0.91	0.91	0.54	2.62	0.94	1.78	0.84
200.0	180.0	427	0.98	85.83	1.73	0.98	0.94	0.57	2.60	0.86	1.73	0.87
220.0	183.0	435	1.07	85.92	1.76	1.04	0.95	0.59	2.57	0.81	1.69	0.88
240.0	184.0	440	1.17	86.00	1.77	1.08	0.96	0.61	2.54	0.77	1.66	0.88
260.0	184.0	445	1.27	86.09	1.77	1.11	0.96	0.63	2.50	0.74	1.62	0.88
300.0	186.0	453	1.47	86.26	1.78	1.17	0.96	0.66	2.46	0.68	1.57	0.88
350.0	186.0	460	1.71	86.47	1.78	1.22	0.96	0.68	2.41	0.63	1.52	0.88
400.0	187.0	466	1.95	86.69	1.78	1.26	0.96	0.71	2.37	0.59	1.48	0.88
500.0	190.0	472	2.44	87.12	1.80	1.30	0.97	0.72	2.35	0.55	1.45	0.90
600.0	191.0	475	2.93	87.56	1.80	1.32	0.97	0.73	2.33	0.53	1.43	0.90
700.0	192.0	477	3.42	88.00	1.80	1.34	0.97	0.74	2.32	0.51	1.41	0.90
900.0	193.0	480	4.40	88.90	1.79	1.36	0.97	0.76	2.29	0.49	1.39	0.90
1100.0	195.0	478	5.37	89.02	1.79	1.34	0.97	0.75	2.30	0.51	1.40	0.90
1300.0	197.0	477	6.35	90.75	1.79	1.34	0.97	0.75	2.31	0.51	1.41	0.90
1500.0	201.0	478	7.33	91.71	1.81	1.34	0.98	0.74	2.32	0.51	1.41	0.91
1700.0	205.0	478	8.30	92.69	1.83	1.34	0.99	0.74	2.33	0.51	1.42	0.91
2000.0	213.0	476	9.77	94.19	1.87	1.33	1.01	0.71	2.39	0.52	1.45	0.92
2300.0	219.0	474	11.23	95.75	1.89	1.31	1.02	0.70	2.42	0.53	1.48	0.94
2500.0	221.0	472	12.21	96.81	1.89	1.30	1.02	0.69	2.43	0.55	1.49	0.94
2700.0	223.0	468	13.19	97.90	1.88	1.27	1.02	0.68	2.46	0.58	1.52	0.96
3000.0	228.0	456	14.65	99.58	1.89	1.19	1.02	0.63	2.55	0.66	1.61	0.98
3200.0	232.0	453	15.63	100.73	1.90	1.17	1.03	0.61	2.58	0.68	1.63	0.98
3600.0	239.0	440	17.58	103.12	1.91	1.13	1.04	0.59	2.63	0.72	1.67	0.96
3900.0	244.0	445	19.05	104.99	1.92	1.11	1.04	0.58	2.66	0.74	1.70	0.96
4200.0	249.0	441	20.51	106.92	1.92	1.09	1.04	0.56	2.69	0.77	1.73	0.96
4500.0	255.0	438	21.98	108.93	1.93	1.06	1.05	0.55	2.72	0.79	1.75	0.97

TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAM TA KHONG TP or BH PU-4, Depth = 4.98 m., Specimen No. = 2  
 Type of Specimen, Strain rate (aa./min) = 0.1, Type of Test = CIU

Init. Height (ca.) = 28.64, Init. Diameter (ca.) = 18.56, Init. Area (sq.ca.) = 87.593, V<sub>0</sub> = 1887.78  
 Cell Pressure = 88.00 psi., = 5.63 kg/sq.ca., Init. Pore Pressure rdg. = 29.888 psi., 2.10 kg/sq.ca.  
 Back Pressure = 38.00 psi.,  
 Eff. Conf. Pressure = 50.20 psi., = 3.529 kg/sq.ca., Proving Ring Constant = 0.4232 kg/div.

Dry Density = 1.772 ton/cu.m at Water Content = 13.43 % by Comp. Stress = kgf/sq.c  
 \*B\* Value = 86.5

Volume Change = 35.60 cc. Hc. = 28.58 ca. Vc = 1772.18 cc. Ac = 86.43 sq.ca

Preparation date : 14/11/33 Saturation date : 14/11/33

Consolidat 7.88 15/11/33 Shearing date : 19/11/33

Deforma. #0.01 mm.Rdg.(div)	Load Dial #10E-1 psi	Pore(u)	Strain %	Cor. sq.ca	Dev.Stress kg/sq.ca	Excess u. kg/sq.ca	Nor. DS	A-Para	PI Eff. kg/sq.ca	P3 Eff. kg/sq.ca	Eff.P KG/50.CM	Eff.Q KG/50.CM
0.0	0.0	298	0.00	86.43	0.00	0.00	0.00	0.00	3.53	3.53	3.53	0.0
5.0	138.0	363	0.02	86.45	0.64	0.04	0.18	0.06	4.13	3.49	3.81	0.3
15.0	228.0	314	0.07	86.49	1.68	0.11	0.30	0.10	4.49	3.42	3.96	0.5
25.0	296.0	334	0.12	86.53	1.45	0.25	0.41	0.17	4.72	3.28	4.00	0.7
40.0	378.0	361	0.20	86.59	1.81	0.44	0.51	0.28	4.89	3.09	3.99	0.9
55.0	435.0	391	0.27	86.66	2.12	0.65	0.60	0.31	5.00	2.88	3.94	1.0
70.0	488.0	416	0.34	86.72	2.34	0.83	0.66	0.35	5.04	2.78	3.87	1.1
90.0	535.0	447	0.44	86.81	2.61	1.05	0.74	0.40	5.18	2.48	3.79	1.3
110.0	575.0	476	0.54	86.89	2.88	1.25	0.79	0.45	5.08	2.28	3.68	1.4
130.0	594.0	489	0.63	86.98	2.89	1.34	0.82	0.46	5.08	2.19	3.63	1.4
150.0	631.0	521	0.73	87.06	3.07	1.57	0.87	0.51	5.03	1.96	3.50	1.5
170.0	646.0	537	0.83	87.15	3.14	1.68	0.89	0.54	4.99	1.65	3.42	1.5
180.0	652.0	546	0.88	87.19	3.16	1.74	0.90	0.55	4.95	1.79	3.37	1.5
200.0	668.0	558	0.98	87.28	3.28	1.93	0.91	0.57	4.90	1.78	3.30	1.6
220.0	664.0	570	1.07	87.36	3.22	1.91	0.91	0.59	4.83	1.62	3.23	1.6
240.0	669.0	598	1.17	87.45	3.24	1.98	0.92	0.61	4.78	1.55	3.17	1.6
260.0	678.0	589	1.27	87.54	3.24	2.05	0.92	0.63	4.72	1.48	3.10	1.6
300.0	672.0	602	1.46	87.71	3.24	2.14	0.92	0.66	4.63	1.39	3.01	1.6
350.0	672.0	615	1.71	87.93	3.23	2.23	0.92	0.69	4.54	1.30	2.92	1.6
400.0	670.0	623	1.95	88.14	3.22	2.29	0.91	0.71	4.46	1.24	2.85	1.6
500.0	664.0	635	2.44	88.59	3.17	2.37	0.90	0.75	4.33	1.16	2.75	1.6
600.0	661.0	641	2.93	89.03	3.14	2.41	0.89	0.77	4.26	1.12	2.69	1.5
700.0	661.0	646	3.41	89.48	3.13	2.45	0.89	0.78	4.21	1.08	2.65	1.5
900.0	664.0	650	4.39	90.39	3.11	2.47	0.88	0.80	4.16	1.05	2.61	1.5
1100.0	674.0	649	5.36	91.32	3.12	2.47	0.88	0.79	4.18	1.06	2.62	1.5
1300.0	687.0	647	6.34	92.28	3.15	2.45	0.89	0.78	4.23	1.08	2.65	1.5
1500.0	704.0	644	7.32	93.25	3.20	2.43	0.91	0.76	4.29	1.10	2.69	1.6
1700.0	722.0	640	8.29	94.24	3.24	2.40	0.92	0.74	4.37	1.12	2.75	1.6
2000.0	750.0	634	9.75	95.77	3.31	2.36	0.94	0.71	4.40	1.17	2.82	1.6
2300.0	782.0	628	11.22	97.34	3.40	2.32	0.96	0.68	4.61	1.21	2.91	1.7
2500.0	803.0	622	12.19	98.43	3.45	2.28	0.98	0.66	4.70	1.25	2.98	1.7
2700.0	825.0	617	13.17	99.53	3.51	2.24	0.99	0.64	4.79	1.29	3.04	1.7
3000.0	855.0	610	14.63	101.24	3.57	2.19	1.01	0.61	4.91	1.34	3.12	1.7
3200.0	775.0	636	15.61	102.41	3.20	2.38	0.91	0.74	4.56	1.15	2.75	1.6
3600.0	891.0	618	17.56	104.83	3.56	2.19	1.01	0.62	4.89	1.34	3.11	1.7
3900.0	923.0	598	19.02	106.72	3.66	2.11	1.04	0.58	5.03	1.42	3.25	1.8
4200.0	954.0	588	20.48	108.69	3.71	2.04	1.05	0.55	5.21	1.49	3.35	1.8
4500.0	979.0	578	21.95	110.73	3.74	1.97	1.06	0.53	5.30	1.56	3.43	1.8

TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAN TA KHONG TP or BH PU-4, Depth = 4.90 m., Specimen No. = 3  
 Type of Specimen, Strain rate (aa./min) = 0.1, Type of Test : CIU

Init.Heigh(ca.) = 20.56, Init.Diameter(ca) = 10.55, Init.Area (sq.ca.) = 87.583, V<sub>0</sub> = 1600.76  
 Cell Pressure = 105.00 psi., = 7.30 kg/sq.ca., Init.Pore Pressure rdg. = 28.500 psi., 2.00 kg/sq.ca  
 Back Pressure = 30.00 psi.,  
 Eff.Conf.Pressure = 76.50 psi., = 5.379 kg/sq.ca., Proving Ring Constant = 1.9957 kg/div.

Dry Density = 1.712 ton/cu.m at Water Content = 14.56 % by Coap. Stress = kgf/sq.ca  
 \*B\* Value = 85.63

Volume Change = 64.00 cc. Hc = 20.32 ca. Vc = 1736.70 cc. Hc = 95.48 sq.ca

Preparation date : 14/11/33 Saturation date : 14/11/33

Consolidat 7.00 15/11/33 Shearing date : 19/11/33

Defora. Load Dial	Pore(u)	Strain	Cor. Area	Dev. Stress	Excess u	Hor. DS	A-Para	PI Eff.	P3 Eff.	Eff. P	Eff. Q
#0.01 mm.Rdg. (div)	#10E-1 psi	%	sq.ca	kg/sq.ca	kg/sq.ca			kg/sq.ca	kg/sq.ca	KG/SQ.CM	KG/SQ.CM
0.0	0.0	285	0.00	85.48	0.00	0.00	0.00	5.30	5.30	5.30	0.00
5.0	7.0	290	0.02	85.50	0.15	0.04	0.03	5.50	5.34	5.42	0.08
15.0	8.0	293	0.07	85.55	0.18	0.06	0.03	5.50	5.32	5.41	0.09
25.0	10.0	296	0.12	85.59	0.22	0.08	0.04	5.52	5.30	5.41	0.11
40.0	11.0	303	0.20	85.65	0.24	0.13	0.05	5.49	5.25	5.37	0.12
55.0	13.0	306	0.27	85.71	0.29	0.15	0.05	5.52	5.23	5.37	0.14
70.0	15.0	312	0.34	85.78	0.33	0.19	0.06	5.52	5.19	5.35	0.16
90.0	16.0	319	0.44	85.86	0.40	0.24	0.07	5.53	5.16	5.34	0.20
110.0	20.0	325	0.54	85.95	0.44	0.28	0.08	5.54	5.18	5.32	0.22
130.0	22.0	333	0.64	86.03	0.48	0.34	0.09	5.52	5.04	5.28	0.24
150.0	23.0	338	0.74	86.12	0.50	0.37	0.09	5.51	5.01	5.26	0.25
170.0	23.0	341	0.84	86.20	0.50	0.39	0.09	5.49	4.98	5.24	0.25
180.0	24.0	346	0.89	86.25	0.52	0.43	0.10	5.47	4.95	5.21	0.26
200.0	44.0	364	0.98	86.33	0.96	0.56	0.10	5.50	4.82	5.30	0.40
220.0	01.0	415	1.00	86.42	1.77	0.91	0.33	6.23	4.46	5.35	0.88
240.0	104.0	460	1.13	86.50	2.27	1.23	0.42	6.42	4.15	5.28	1.13
260.0	122.0	505	1.28	86.59	2.66	1.55	0.49	6.49	3.83	5.16	1.33
300.0	141.0	577	1.48	86.76	3.06	2.05	0.57	6.67	3.33	4.96	1.53
350.0	151.0	653	1.72	86.98	3.27	2.59	0.61	6.06	2.79	4.43	1.64
400.0	154.0	711	1.97	87.20	3.33	3.08	0.62	6.98	2.39	4.05	1.67
500.0	155.0	773	2.46	87.64	3.34	3.43	0.62	1.03	5.28	1.95	3.62
600.0	154.0	800	2.95	88.00	3.38	3.62	0.61	1.10	5.05	1.76	3.41
700.0	154.0	819	3.45	88.53	3.28	3.75	0.61	1.14	4.90	1.62	3.28
900.0	154.0	835	4.43	89.44	3.25	3.97	0.60	1.19	4.76	1.51	3.13
1100.0	155.0	857	5.41	90.38	3.23	3.88	0.60	1.20	4.73	1.50	3.11
1300.0	157.0	858	6.40	91.33	3.24	3.89	0.60	1.20	4.73	1.49	3.11
1500.0	161.0	835	7.38	92.30	3.29	3.97	0.61	1.18	4.80	1.51	3.16
1700.0	166.0	831	8.37	93.29	3.36	3.84	0.62	1.14	4.90	1.54	3.22
2000.0	173.0	823	9.84	94.82	3.44	3.78	0.64	1.10	5.04	1.60	3.32
2300.0	179.0	816	11.32	96.40	3.50	3.73	0.65	1.07	5.15	1.65	3.40
2500.0	183.0	809	12.31	97.40	3.54	3.68	0.66	1.04	5.23	1.69	3.46
2700.0	189.0	806	13.29	98.58	3.60	3.66	0.67	1.02	5.31	1.72	3.51
3000.0	191.0	803	14.77	100.29	3.59	3.64	0.67	1.01	5.33	1.74	3.53
3200.0	193.0	799	15.75	101.46	3.59	3.61	0.67	1.01	5.35	1.75	3.55
3600.0	193.0	795	17.72	103.89	3.54	3.59	0.66	1.01	5.33	1.79	3.56
3900.0	196.0	787	19.20	105.79	3.49	3.54	0.65	1.01	5.33	1.84	3.58
4200.0	198.0	785	20.67	107.76	3.46	3.52	0.64	1.01	5.33	1.86	3.60
4500.0	200.0	780	22.15	109.80	3.43	3.48	0.64	1.01	5.33	1.90	3.62
5222.0	232.0	777	24.61	113.79	3.35	3.42	0.62	1.02	5.31	1.95	3.63

TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, EGAT.  
 Project LAN TA KHONG TP or BH PU-4 ,Depth = 4.98 m. ,Specimen No. = 4  
 Type of Specimen ,Strain rate (cm./min) = 8.1 ,Type of Test 1 CIU

Init.Heigh(cm.) = 28.35 ,Init.Diameter(cm) = 10.55 ,Init.Area (sq.cm.) = 87.417 V<sub>0</sub>= 1778.93  
 Cell Pressure = 130.00 psi., = 9.14 kg/sq.cm. ,Init.Pore Pressure rdg. = 30.500 psi. 2.14 kg/sq.cm  
 Back Pressure = 30.00 psi.,  
 Eff.Conf.Pressure = 99.50 psi., = 6.976 kg/sq.cm. ,Proving Ring Constant = 1.0700 kg/div.

Dry Density = 1.756 ton/cu.m at Water Content = 12.57 % by Comp. Stress = kgf/sq.cm  
 "g" Value= 85.4

Volume Change = 51.28 cc. Hc = 20.15 cc. Vc = 1727.75 cc. Ac = 95.72 sq.cm  
 Preparation date 14/11/33 Saturation date 14/11/33  
 Consolidat 7.00 15/11/33 Shearing date 19/11/33

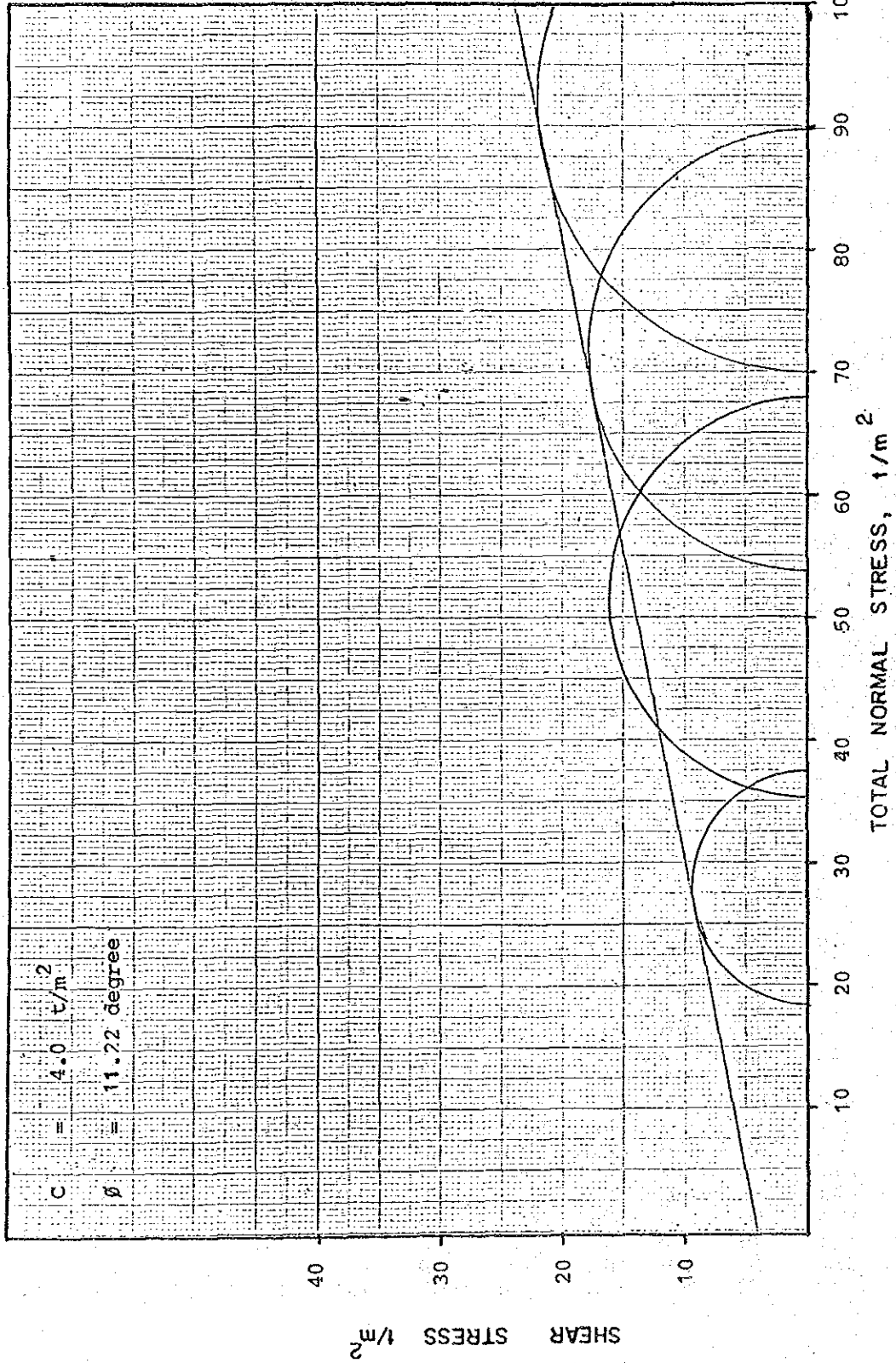
Defor. #0.0	Load Dial #0.0	Pore(u) #10E-1 psi	Strain %	Cor. Area sq.cm	Dev.Stress kg/sq.cm	Excess u kg/sq.cm	Hor. DS	A-Para	PI Eff. kg/sq.cm	PS Eff. kg/sq.cm	Eff.P KG/50.CM	Eff.Q KG/50.CM
0.0	0.0	305	0.00	85.72	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.00
5.0	17.0	389	0.02	85.74	0.21	0.03	0.03	0.13	7.18	6.97	7.07	0.1
15.0	91.0	324	0.07	85.79	1.14	0.13	0.16	0.12	8.08	6.86	7.43	0.5
25.0	118.0	344	0.12	85.83	1.47	0.27	0.21	0.19	8.19	6.72	7.46	0.7
40.0	150.0	370	0.20	85.89	1.87	0.51	0.27	0.27	8.35	6.48	7.42	0.9
55.0	180.0	419	0.27	85.96	2.24	0.68	0.32	0.36	8.43	6.19	7.31	1.1
70.0	206.0	461	0.35	86.02	2.56	1.10	0.37	0.43	8.46	5.90	7.10	1.2
90.0	235.0	515	0.45	86.11	2.92	1.48	0.42	0.51	8.44	5.52	6.90	1.4
110.0	262.0	570	0.55	86.19	3.25	1.86	0.46	0.57	8.38	5.13	6.76	1.6
130.0	283.0	612	0.65	86.20	3.51	2.16	0.50	0.62	8.35	4.84	6.59	1.7
150.0	299.0	666	0.74	86.37	3.70	2.54	0.53	0.69	8.16	4.46	6.31	1.8
170.0	312.0	704	0.84	86.45	3.88	2.81	0.55	0.75	8.05	4.19	6.12	1.9
180.0	318.0	726	0.89	86.50	3.93	2.96	0.56	0.75	7.97	4.04	6.00	1.9
200.0	325.0	750	0.99	86.50	4.02	3.18	0.57	0.79	7.83	3.81	5.82	2.0
220.0	331.0	789	1.09	86.67	4.09	3.40	0.58	0.83	7.68	3.59	5.64	2.0
240.0	336.0	815	1.19	86.76	4.14	3.59	0.59	0.87	7.55	3.41	5.48	2.0
260.0	339.0	848	1.29	86.84	4.18	3.76	0.60	0.90	7.41	3.23	5.32	2.0
300.0	342.0	879	1.49	87.02	4.21	4.03	0.60	0.96	7.17	2.97	5.07	2.1
350.0	343.0	916	1.74	87.24	4.21	4.30	0.60	1.02	6.91	2.70	4.80	2.1
400.0	343.0	942	1.98	87.46	4.20	4.40	0.60	1.07	6.71	2.52	4.62	2.1
500.0	341.0	975	2.48	87.90	4.15	4.71	0.59	1.13	6.44	2.29	4.36	2.0
600.0	340.0	997	2.98	88.35	4.12	4.87	0.59	1.18	6.25	2.13	4.19	2.0
700.0	341.0	1009	3.47	88.81	4.11	4.95	0.59	1.20	6.15	2.05	4.10	2.0
800.0	346.0	1023	4.47	89.73	4.13	5.05	0.59	1.22	6.07	1.95	4.01	2.0
1100.0	352.0	1027	5.46	90.67	4.15	5.00	0.59	1.22	6.07	1.92	4.00	2.0
1300.0	361.0	1025	6.45	91.63	4.22	5.06	0.60	1.20	6.15	1.93	4.04	2.1
1500.0	373.0	1022	7.44	92.62	4.31	5.04	0.62	1.17	6.26	1.95	4.11	2.1
1700.0	397.0	1016	8.43	93.62	4.42	5.00	0.63	1.13	6.42	2.00	4.21	2.2
2000.0	405.0	1009	9.92	95.17	4.55	4.95	0.65	1.09	6.60	2.05	4.32	2.2
2500.0	418.0	1001	11.41	96.77	4.62	4.89	0.66	1.06	6.72	2.10	4.41	2.3
2500.0	426.0	997	12.40	97.86	4.66	4.87	0.67	1.04	6.79	2.13	4.46	2.3
2700.0	434.0	992	13.40	98.98	4.69	4.93	0.67	1.03	6.86	2.17	4.51	2.3
3000.0	445.0	983	14.00	100.71	4.73	4.77	0.68	1.01	6.96	2.23	4.59	2.3
3200.0	450.0	980	15.00	101.99	4.73	4.75	0.69	1.00	6.97	2.25	4.61	2.3
3600.0	456.0	973	17.06	104.36	4.68	4.70	0.67	1.00	6.97	2.30	4.64	2.3
3900.0	460.0	970	19.35	106.29	4.63	4.60	0.66	1.01	6.95	2.32	4.64	2.3
4200.0	461.0	964	20.84	108.29	4.56	4.63	0.65	1.02	6.92	2.36	4.64	2.2
4500.0	459.0	960	22.33	110.36	4.45	4.61	0.64	1.03	6.84	2.39	4.62	2.2

MATERIAL TESTING SECTION GEOLOGY AND SOIL ENGINEERING DIVISION  
SURVEY AND ECOLOGY DEPARTMENT, EGAT.

PROJECT LAM TA KHONG

SAMPLE NO. PU-4

DEPT 4.90 m. DATE 26/11/33

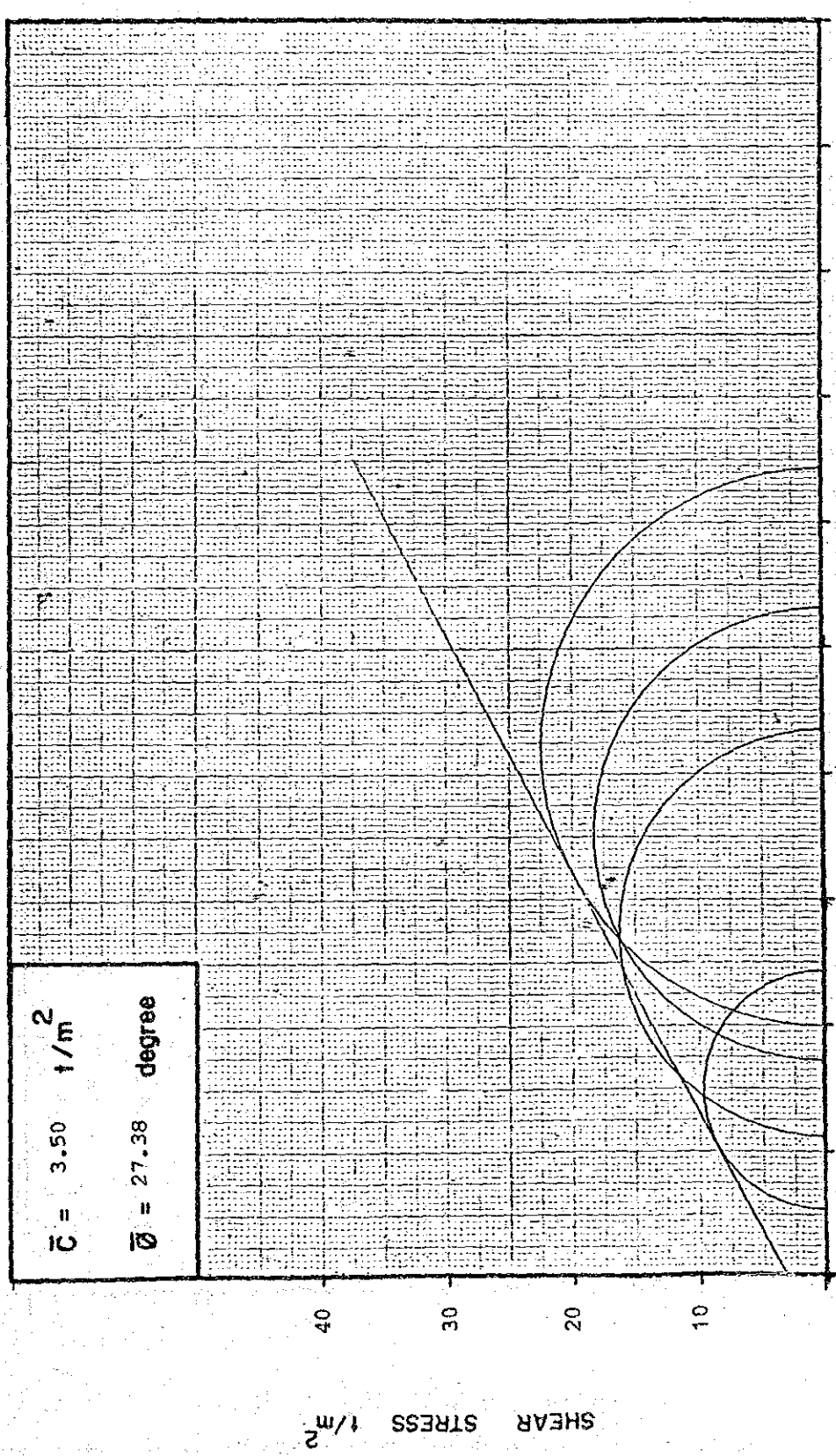




MATERIAL TESTING SECTION, GEOLOGY AND SOIL ENGINEERING DIVISION  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.

PROJECT. LAM TA KHONG  
 SAMPLE NO. PU-4  
 DEPTH. 4.90 m. DATE. 26/11/33

$\bar{c} = 3.50 \text{ t/m}^2$   
 $\bar{\phi} = 27.38 \text{ degree}$

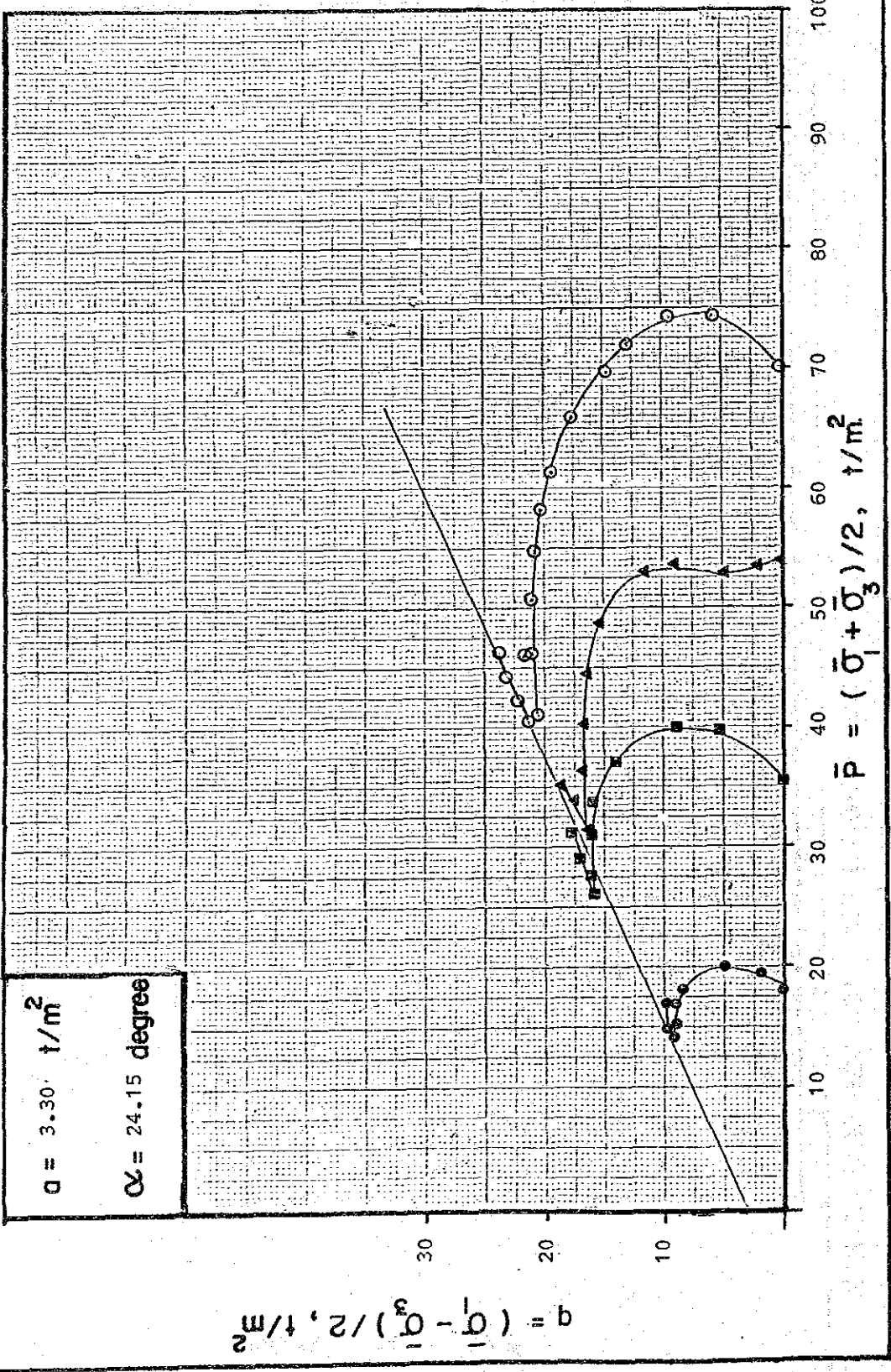


10 20 30 40 50 60 70 80 90 100  
 EFFECTIVE NORMAL STRESS,  $t/m^2$

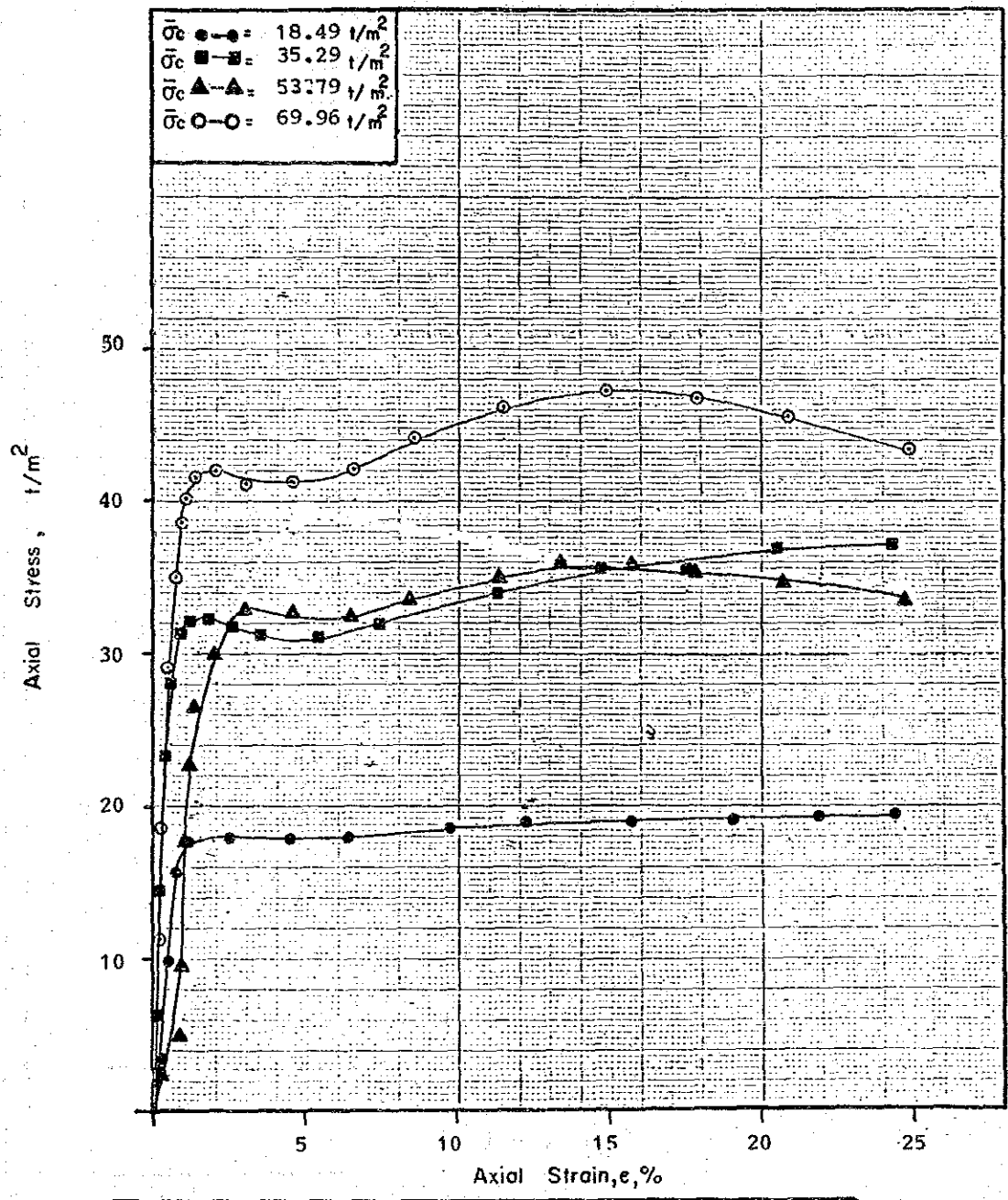
SHEAR STRESS  $t/m^2$

PROJECT. LAM TA KHONG  
 SAMPLE NO. PU-4      DATE 26/11/33  
 DEPTH. 4.90 m.

MATERIAL TESTING SECTION GEOLOGY AND SOIL ENGINEERING DIVISION.  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.



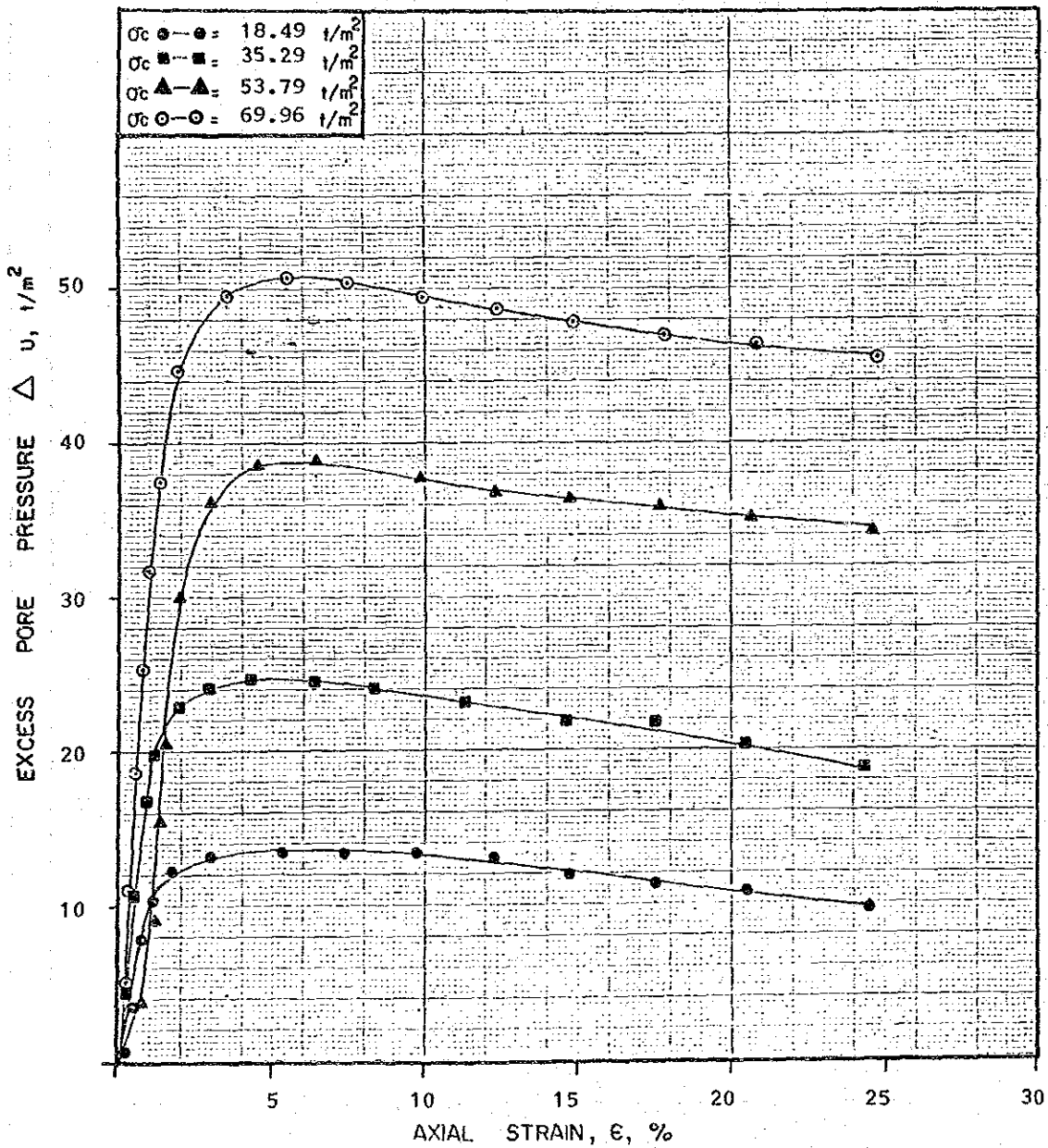
MATERIAL TESTING SECTION, GEOLOGY AND SOIL ENGINEERING DIVISION  
 SURVEY AND ECOLOGY DEPARTMENT, EGAT.  
**STRESS - STRAIN CURVE**



Project:	LAM TA KHONG	Location:	
Type of Test:	CIU	Boring No.	PU-4
Test No.:		Depth.	4.90 m.
Water Content	12.57-14.56 %	Sample Description:	
Dry Unit Weight	1.712-1.772 t/m <sup>3</sup>	By Compressi Stress	t/m <sup>2</sup>

MATERIAL TESTING SECTION,  
GEOLOGY AND SOIL ENGINEERING DIVISION,  
SURVEY AND ECOLOGY DEPARTMENT, EGAT.

PORE PRESSURE VS. STRAIN

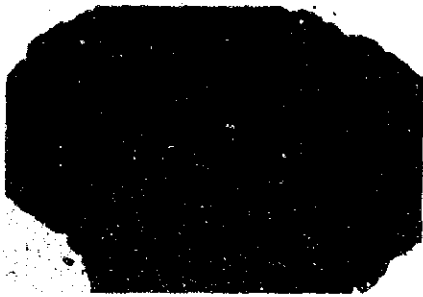


PROJECT.	LAM TA KHONG	LOCATION	
TYPE OF TEST.	CU	BORING NO.	PU-4
TEST NO.		DEPTH	4.90 m
WATER CONTENT.	12.57-14.56 %	SAMPLE DESCRIPTION	
DRY UNIT WEIGHT	1.712-1.772 $t/m^3$	TESTED BY	
BY COMPRESSION STRESS	$t/m^2$		

A-8 MINERALOGICAL ANALYSIS DATA OF DRILL CORES

A-8-(1) PHOTOGRAPHS OF SAMPLES  
A-8-(2) X-RAY DIFFRACTION CHART





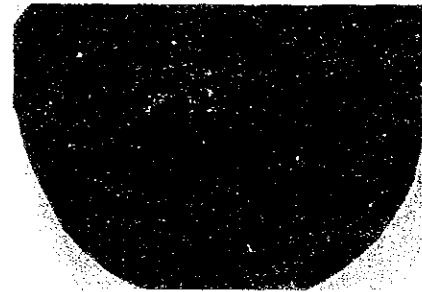
SU-1 Residual Soil (laterite)



ST-2 Siltstone



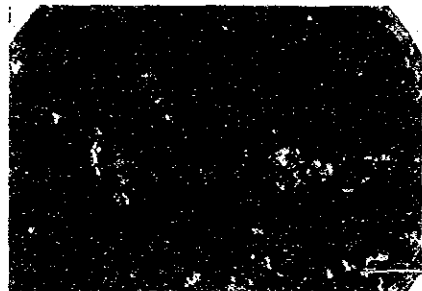
SU-2 Nodule in Residual Soil



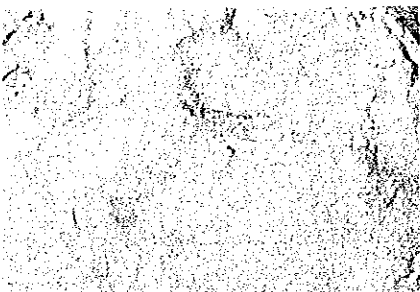
ST-3 Silty Sandstone



SU-3 Weathered Claystone



ST-6 Siltstone

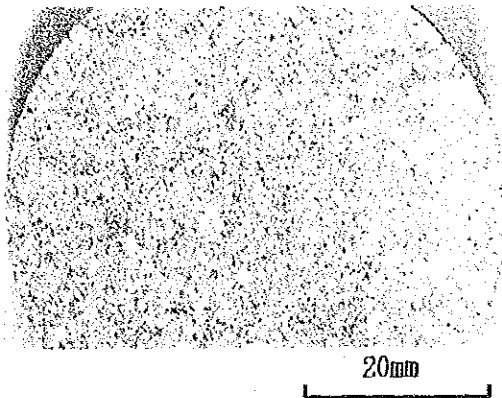


SU-5 Claystone

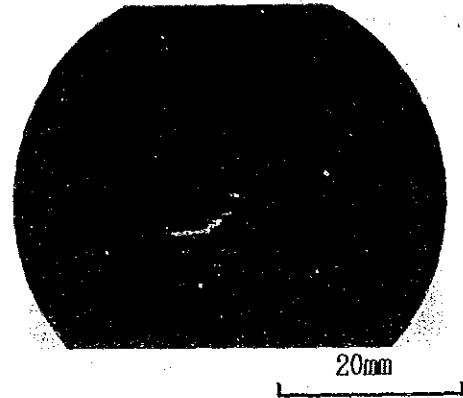
Photographs of Samples (1-3)



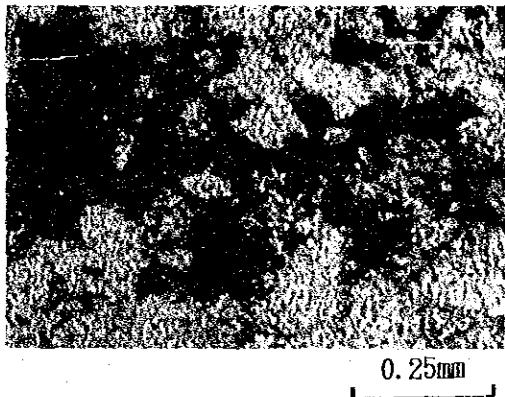




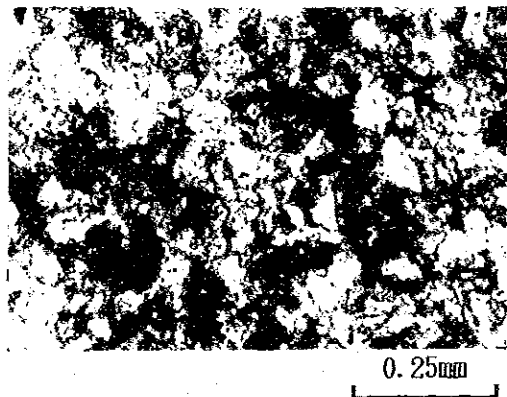
SU-4 Medium-Grained Sandstone



ST-1 Fine-Grained Sandstone  
with Calcareous Spots



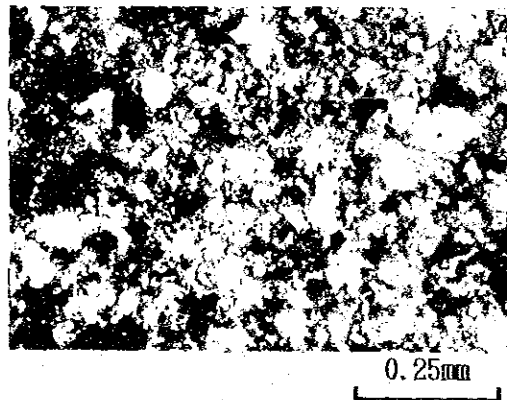
SU-4 Thin Section (Open Polar)



ST-1 Thin Section (Open Polar)



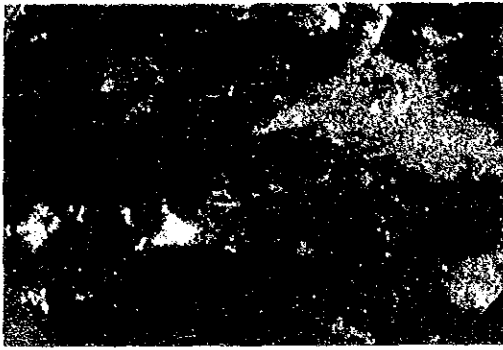
SU-4 Thin Section (Cross Polar)



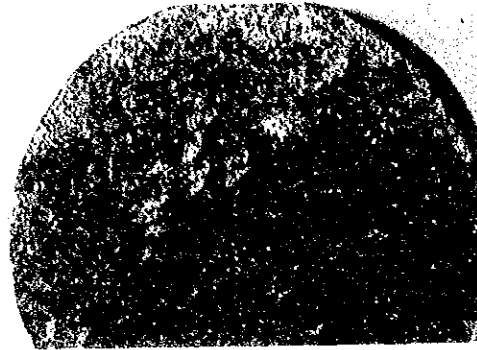
ST-1 Thin Section (Cross Polar)

Photographs of Samples ( 2-3 )

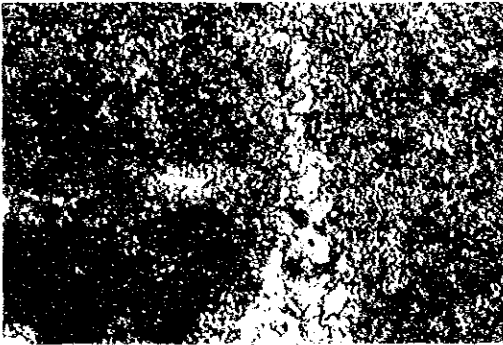




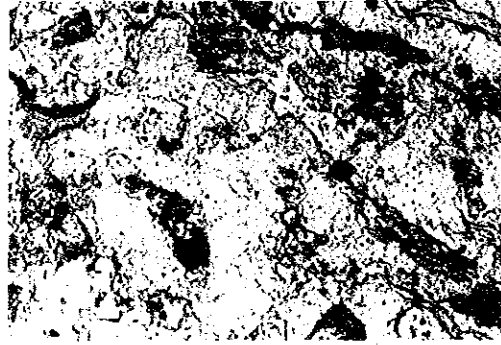
ST-4 Siltstone



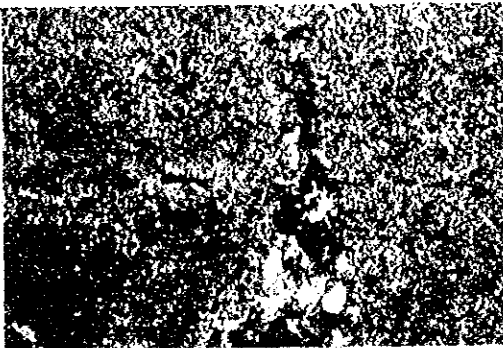
ST-5 Fine-Grained Sandstone



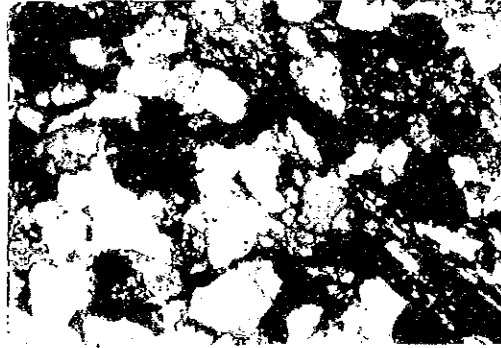
ST-4 Thin Section (Open Polar)



ST-5 Thin Section (Open Polar)



ST-4 Thin Section (Cross Polar)

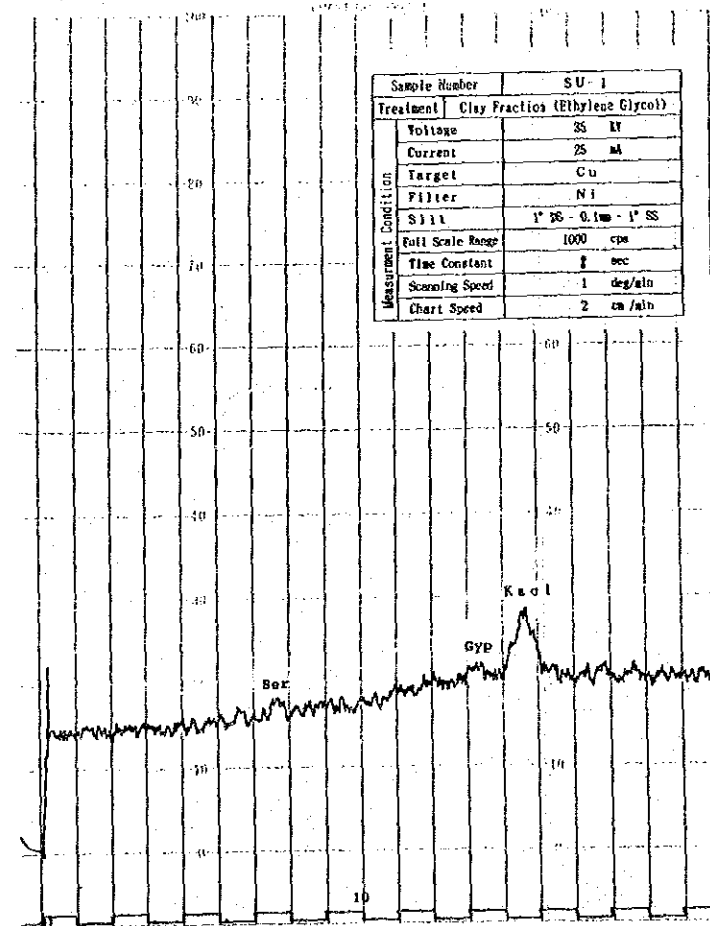
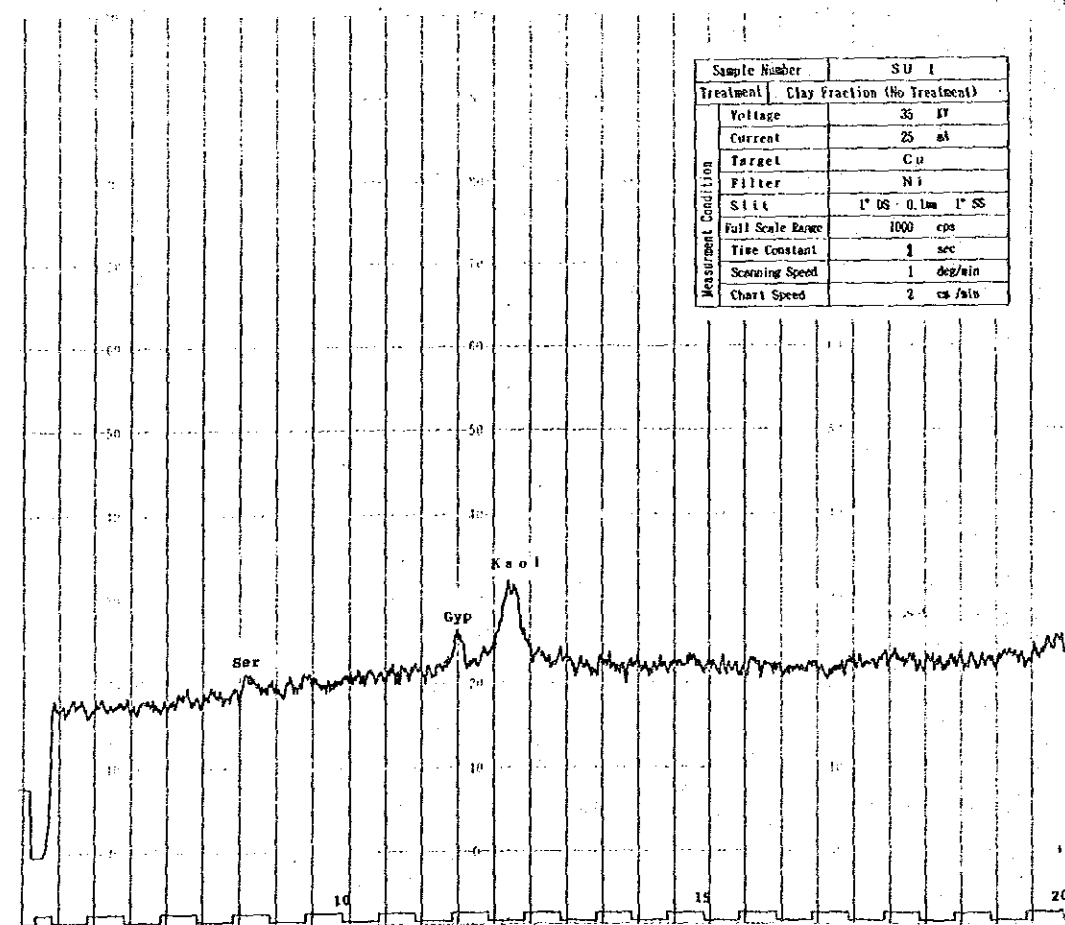
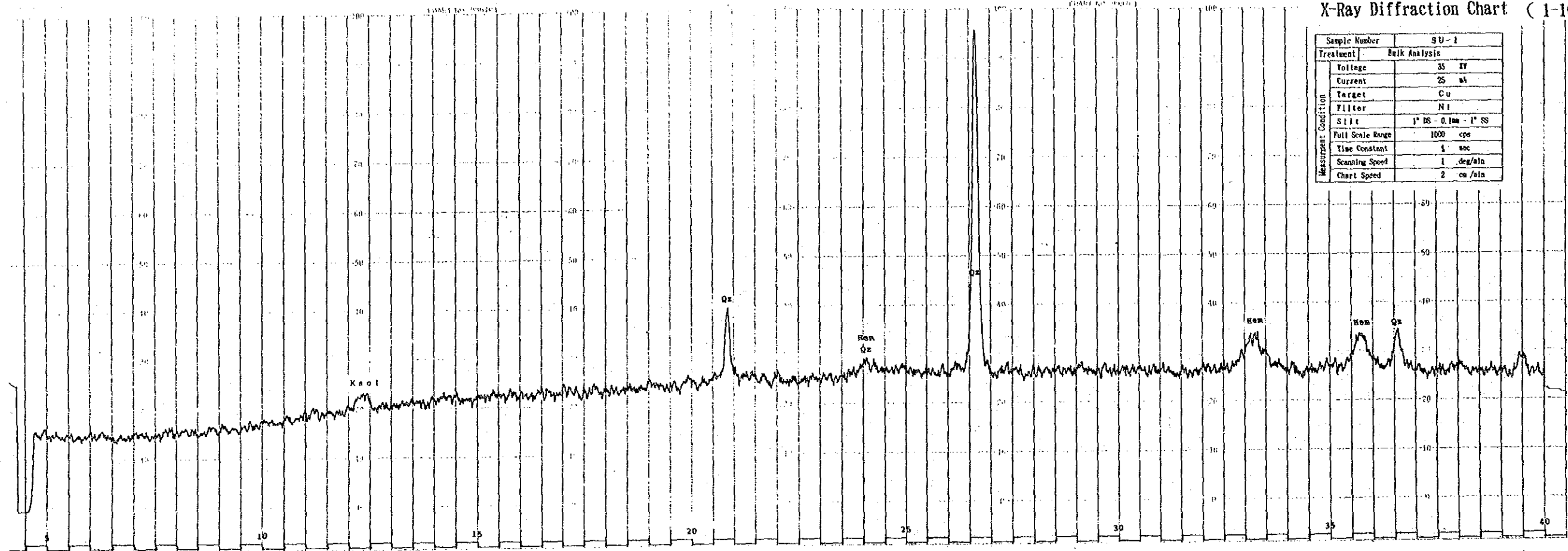


ST-5 Thin Section (Cross Polar)

Photographs of Samples ( 3-3 )

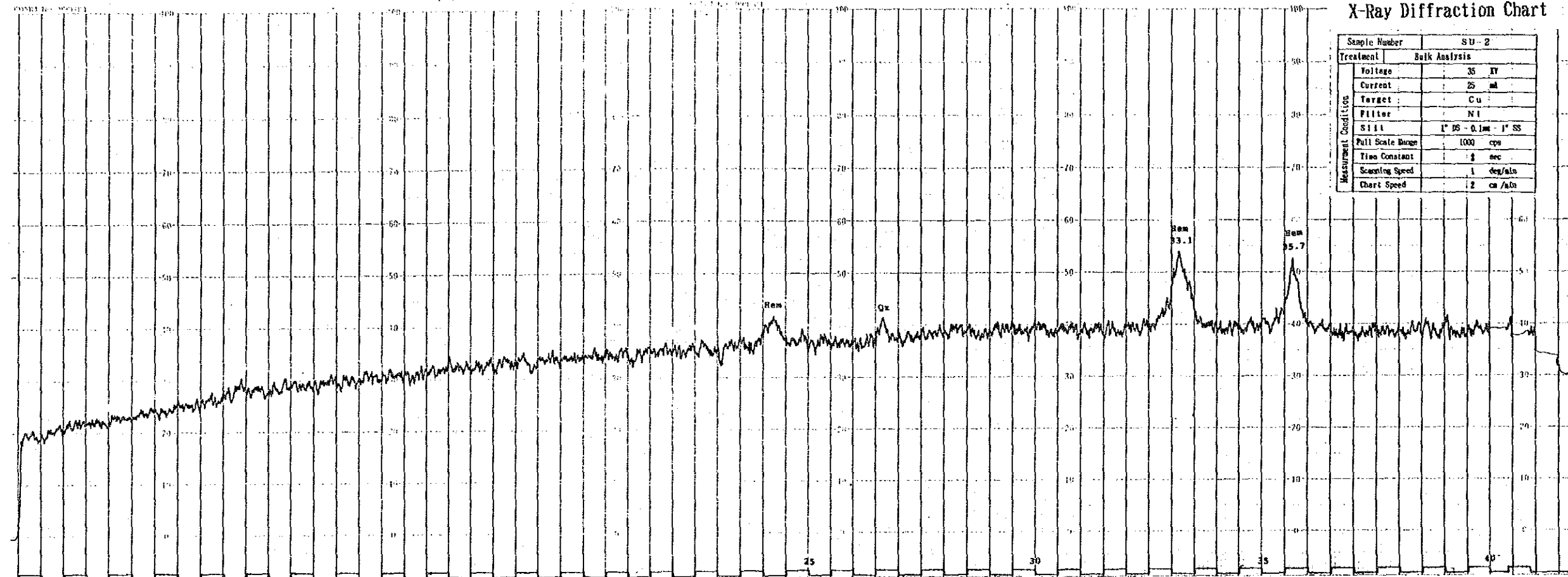


X-Ray Diffraction Chart (1-10)





### X-Ray Diffraction Chart (2-10)

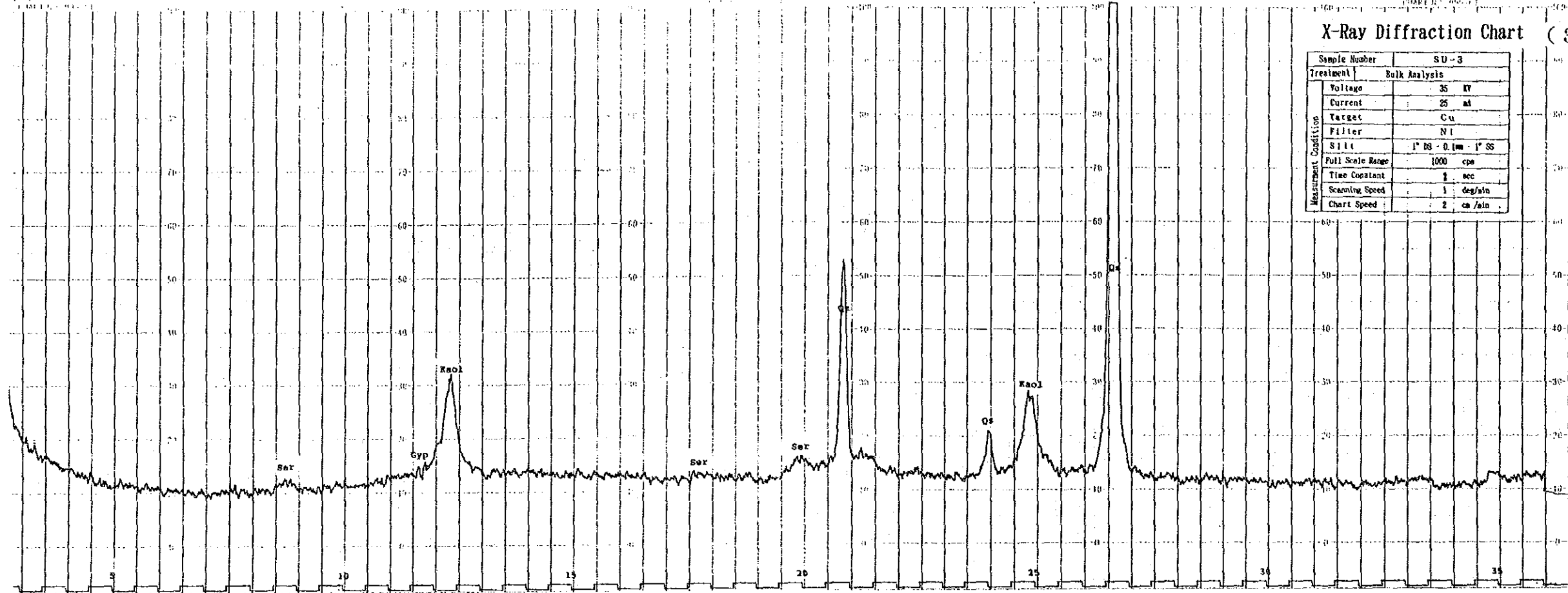




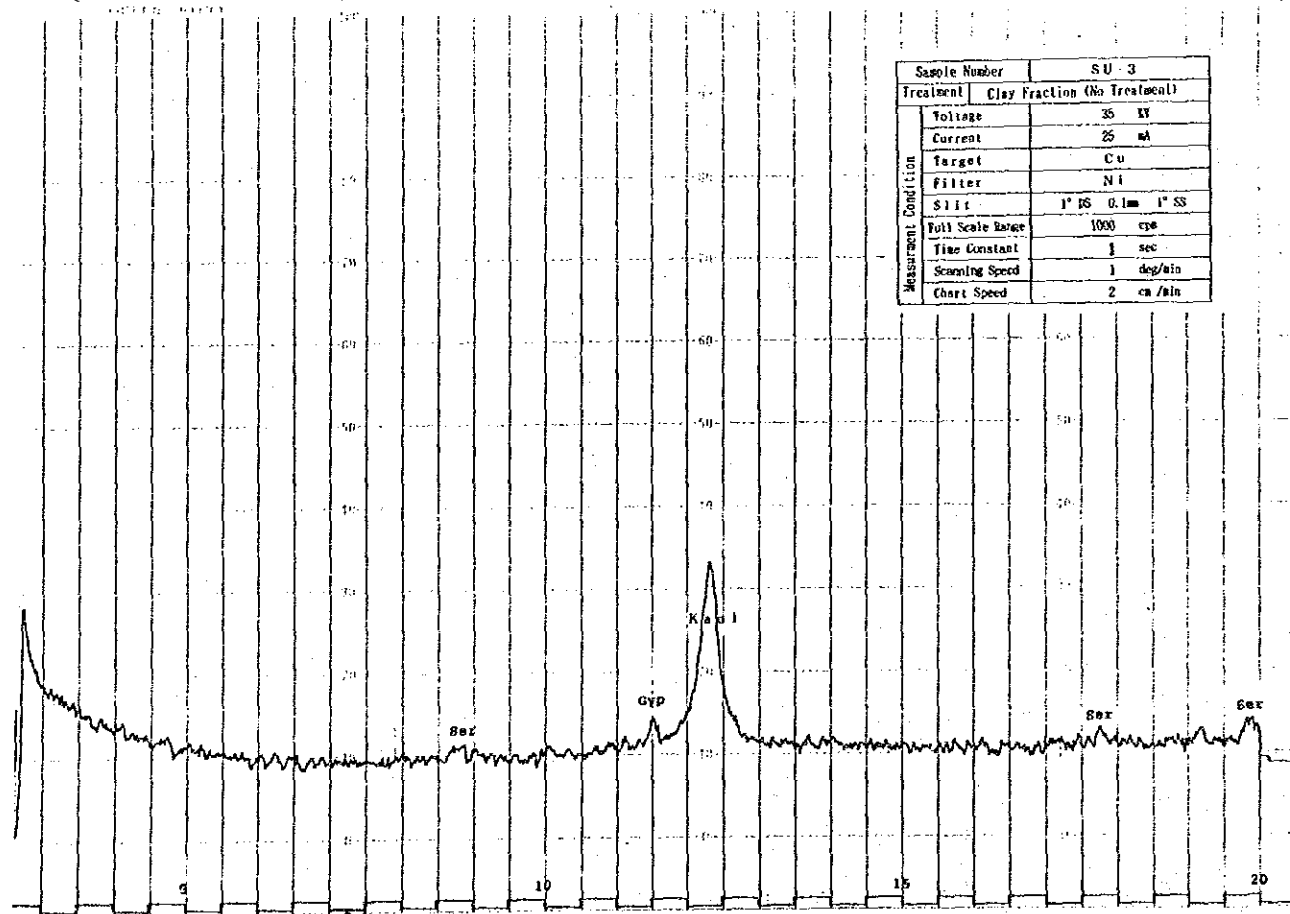


X-Ray Diffraction Chart (3-10)

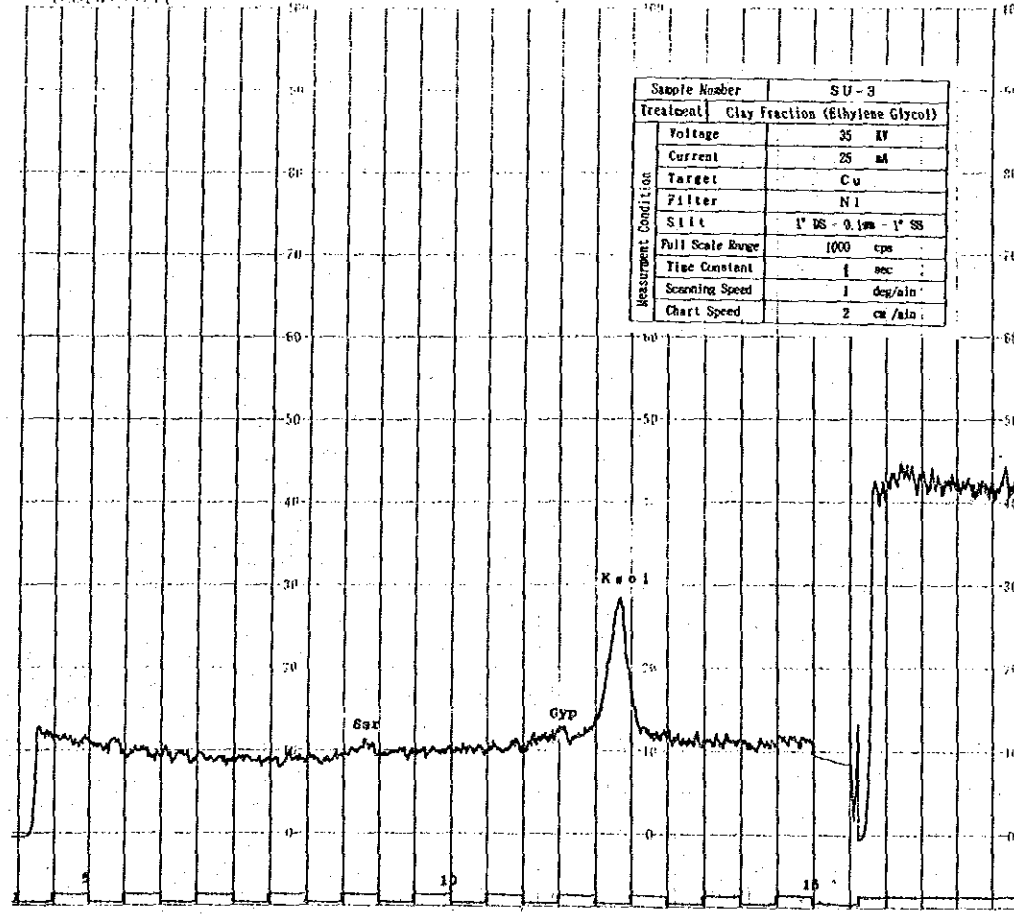
Sample Number	SU-3
Treatment	Bulk Analysis
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Slit	1° DS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	1 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



Sample Number	SU-3
Treatment	Clay Fraction (No Treatment)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Slit	1° DS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	1 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



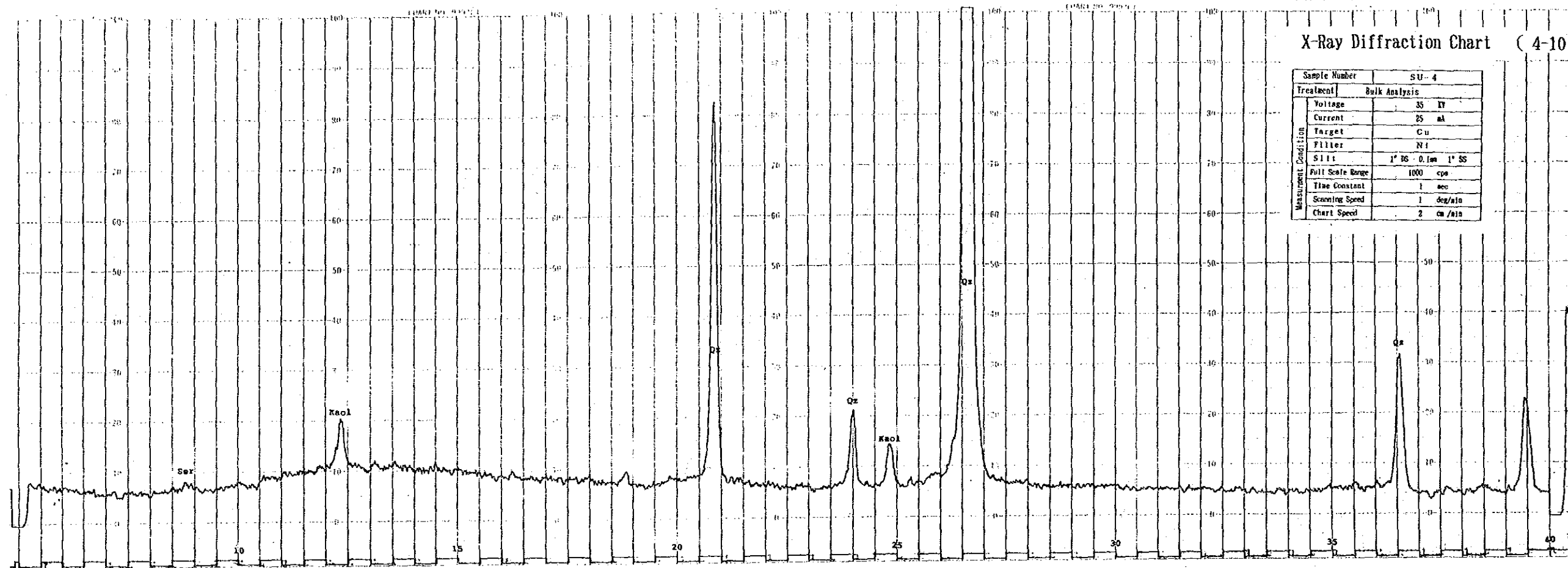
Sample Number	SU-3
Treatment	Clay Fraction (Ethylene Glycol)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Slit	1° DS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	1 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min





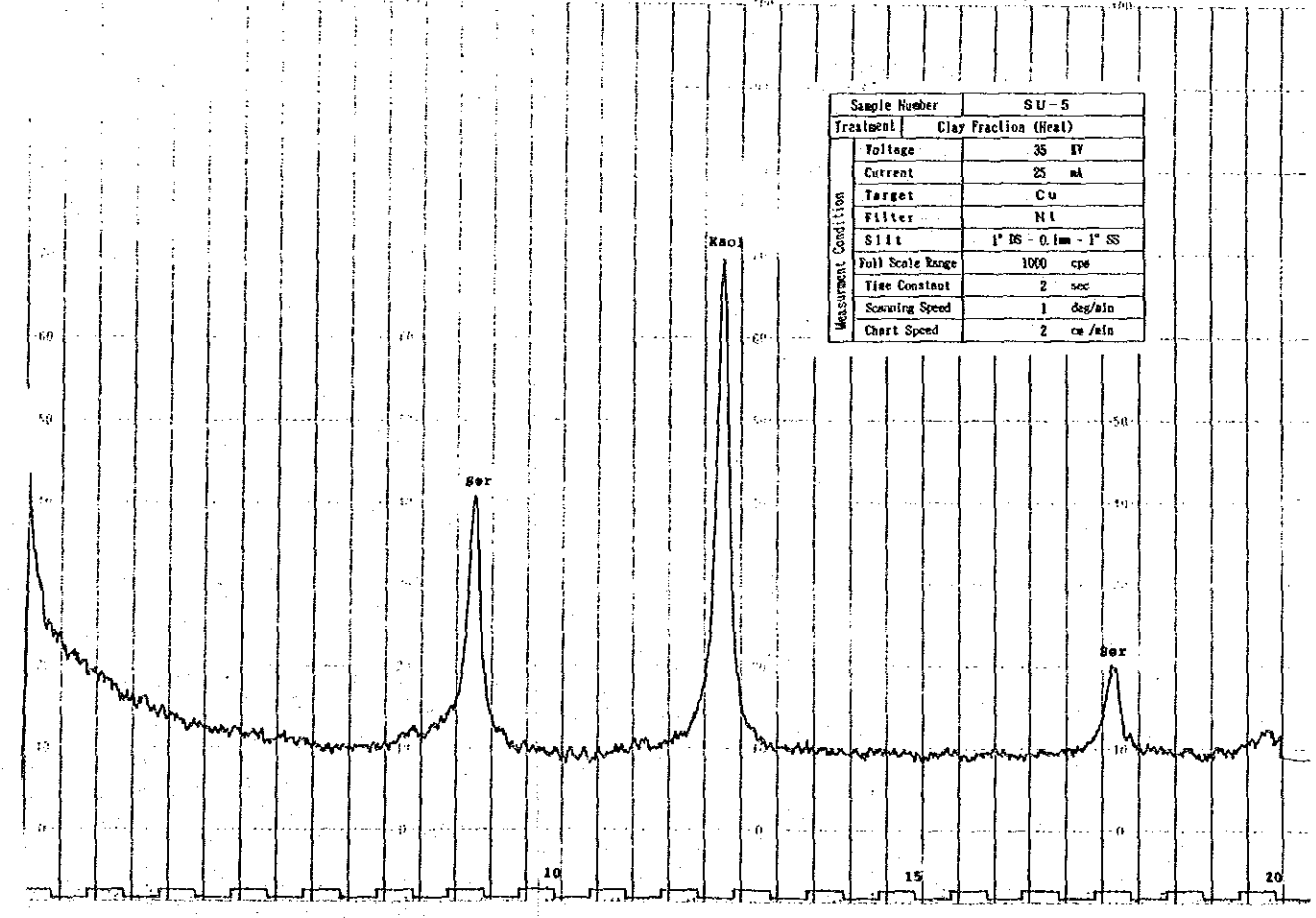
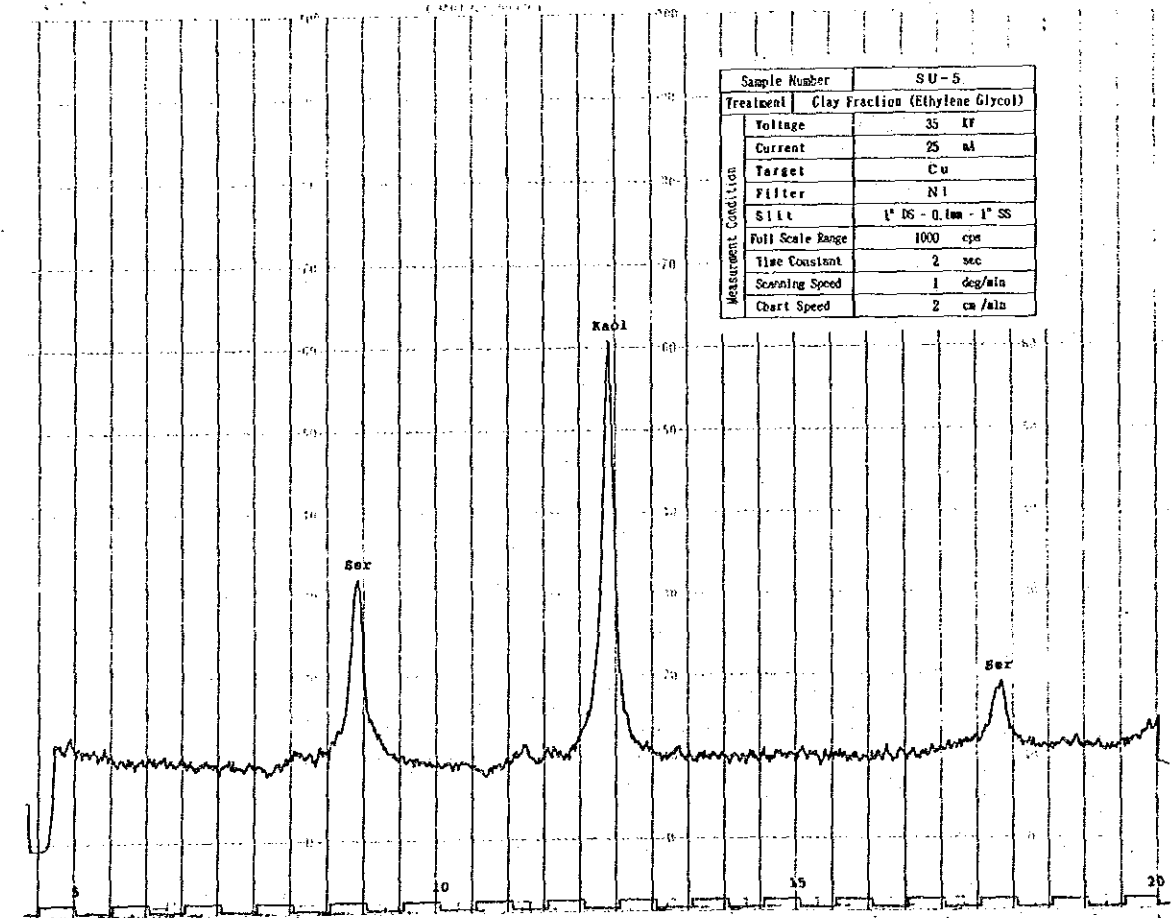
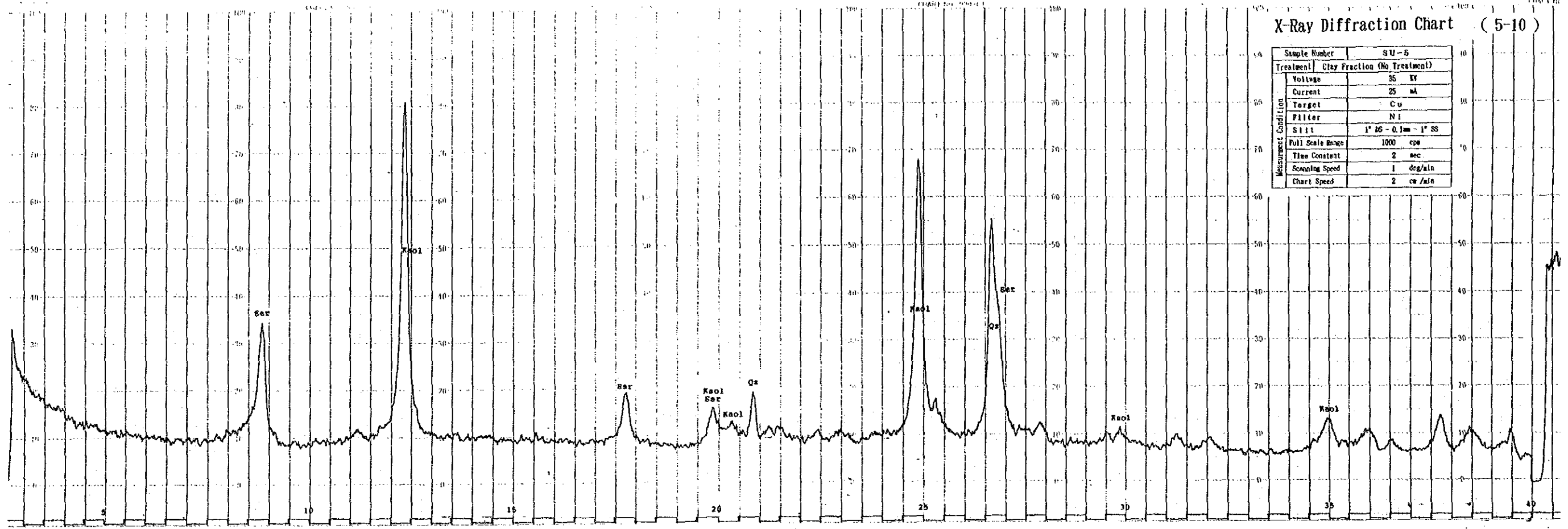
X-Ray Diffraction Chart (4-10)

Sample Number	SU-4
Treatment	Bulk Analysis
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	NI
Slit	1° BS - 0.1mm 1° SS
Full Scale Range	1000 cps
Time Constant	1 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min





### X-Ray Diffraction Chart (5-10)



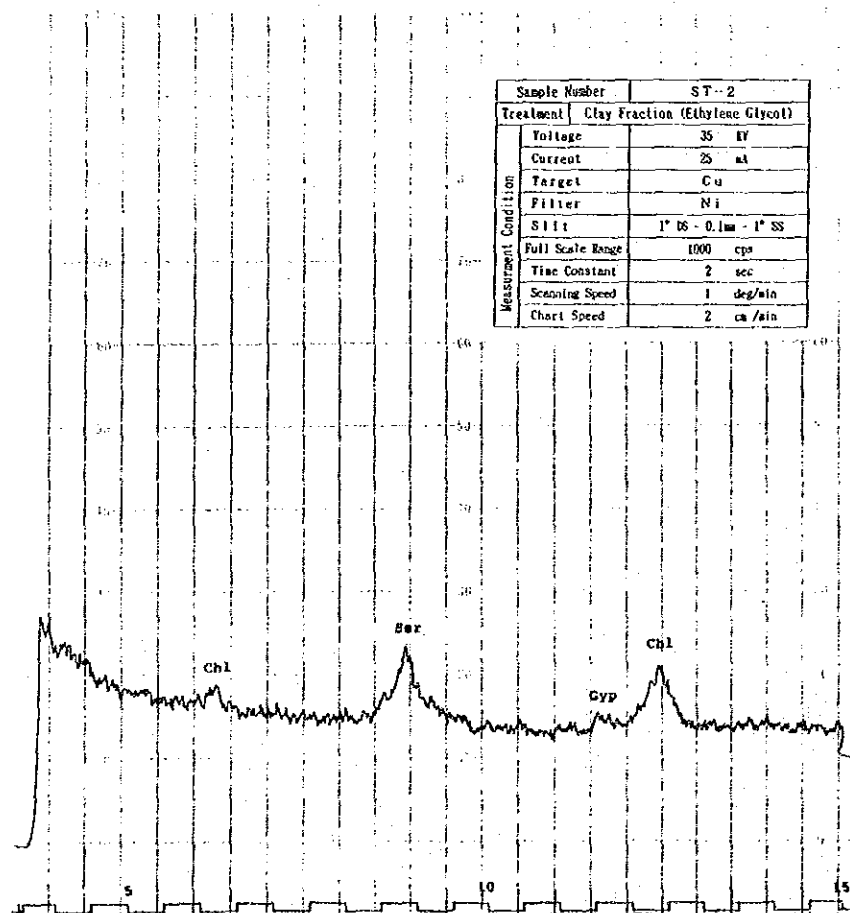


X-Ray Diffraction Chart ( 6-10 )

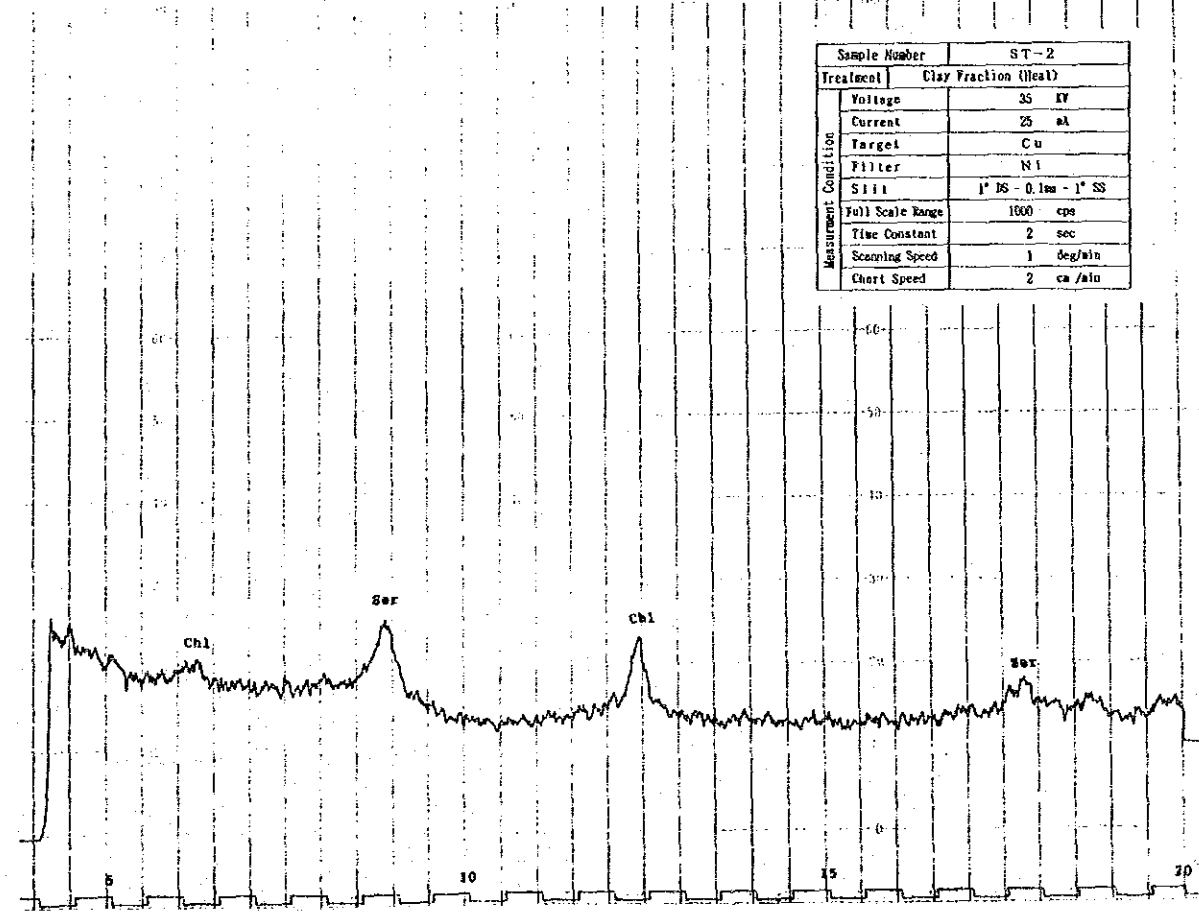
Sample Number	ST-2
Treatment	Clay Fraction (No Treatment)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Silt	1" DS - 0.1mm - 1" SS
Full Scale Range	1000 cps
Time Constant	2 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



Sample Number	ST-2
Treatment	Clay Fraction (Ethylene Glycol)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Silt	1" DS - 0.1mm - 1" SS
Full Scale Range	1000 cps
Time Constant	2 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



Sample Number	ST-2
Treatment	Clay Fraction (Heat)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Silt	1" DS - 0.1mm - 1" SS
Full Scale Range	1000 cps
Time Constant	2 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min

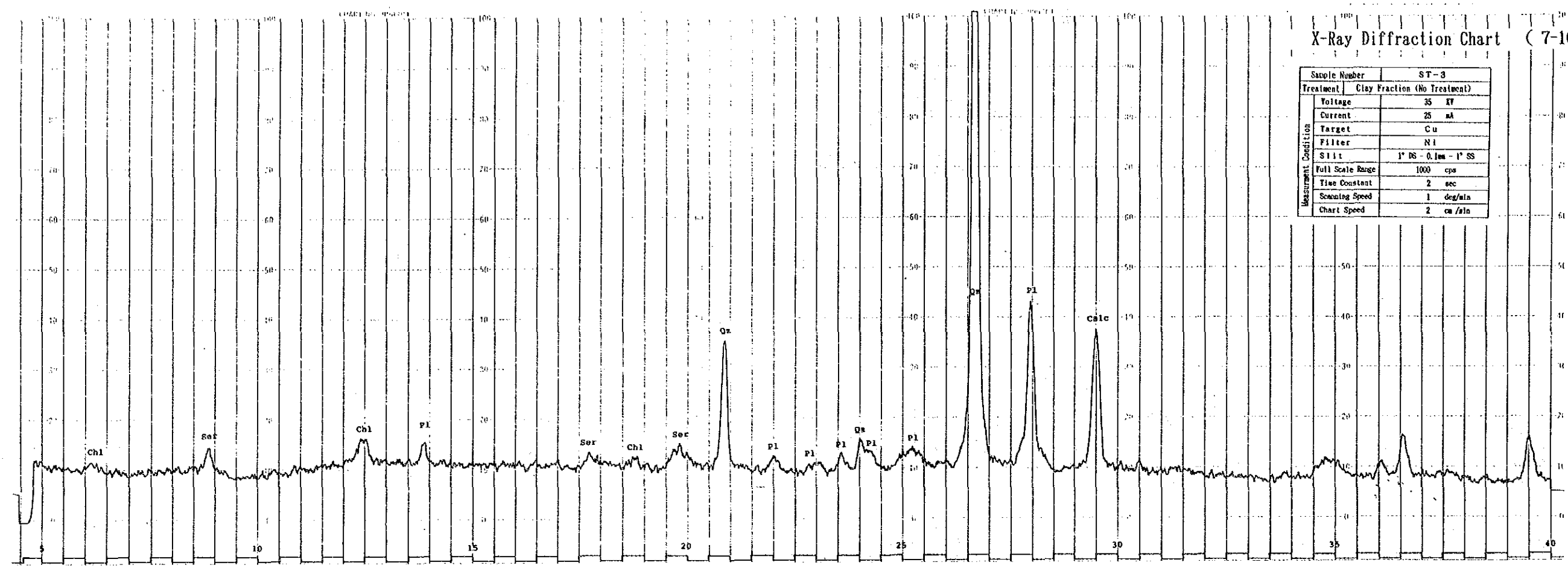






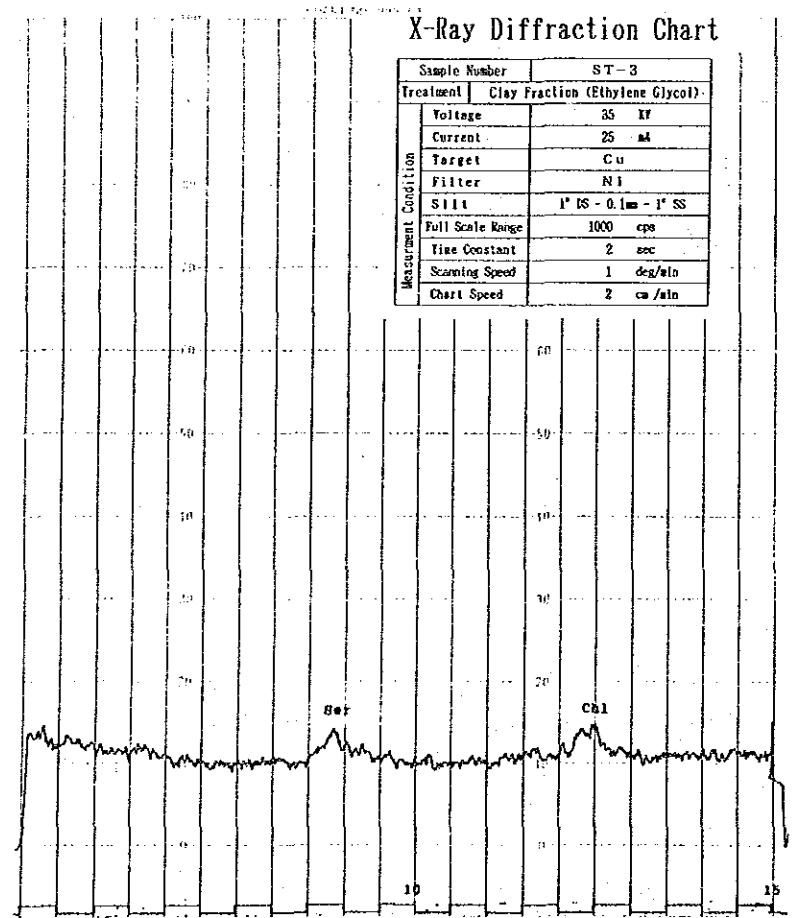
### X-Ray Diffraction Chart (7-10)

Sample Number	ST-3
Treatment	Clay Fraction (No Treatment)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Slit	1° DS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	2 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



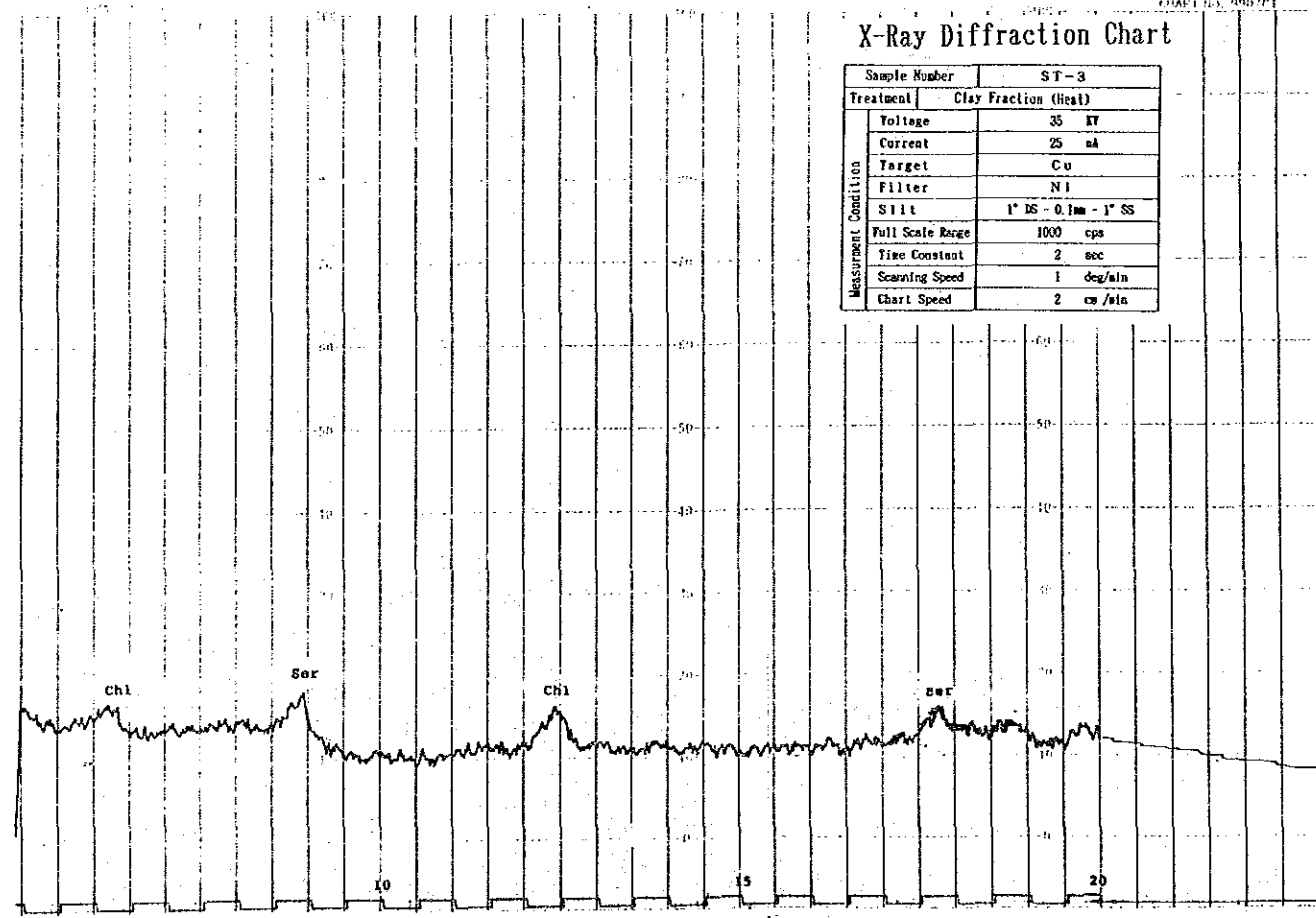
### X-Ray Diffraction Chart

Sample Number	ST-3
Treatment	Clay Fraction (Ethylene Glycol)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Slit	1° DS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	2 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min

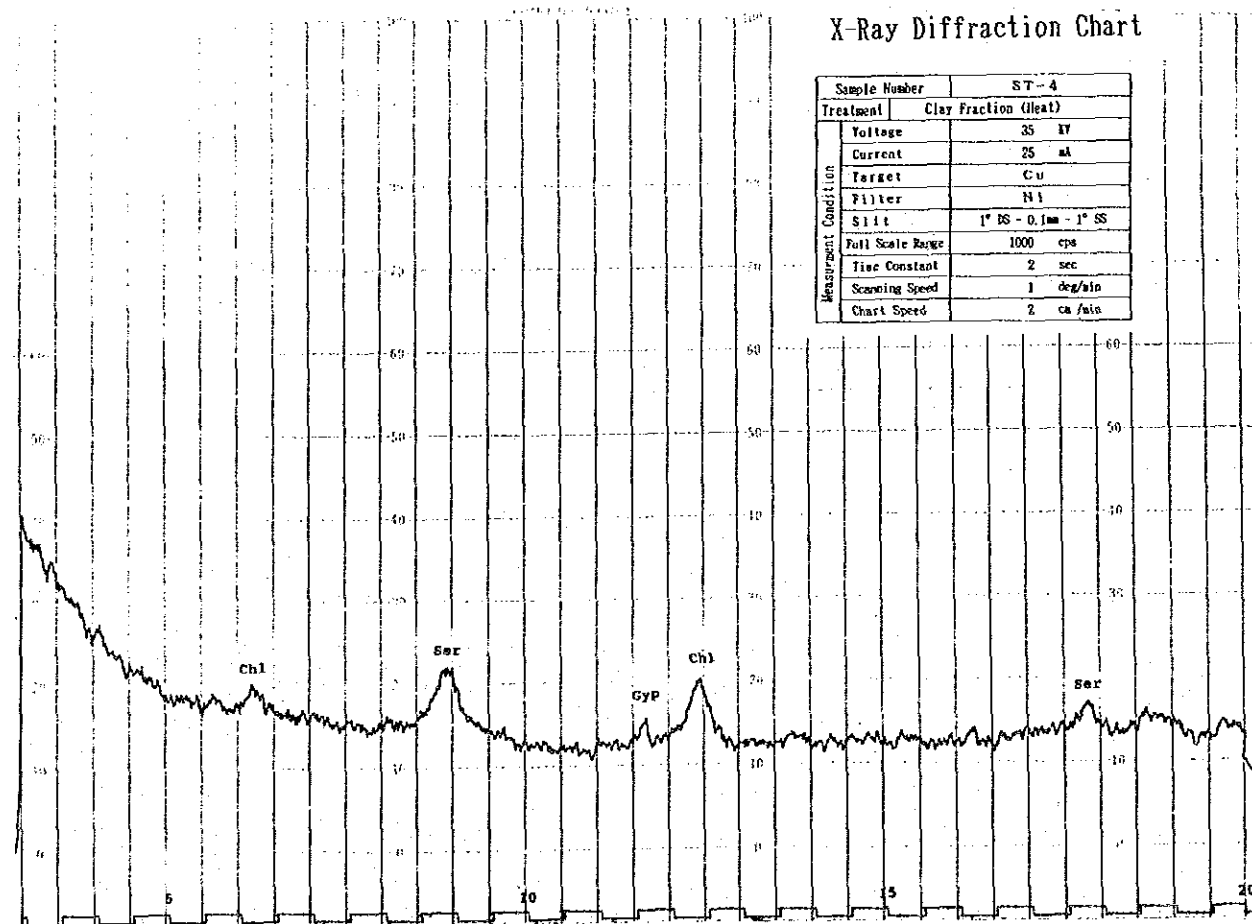
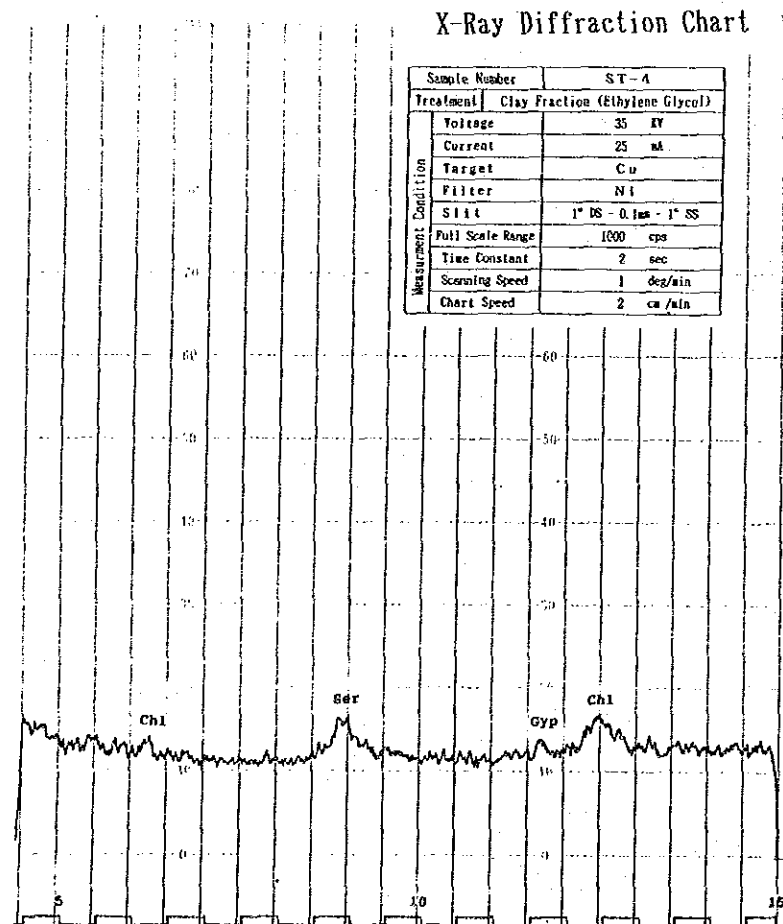
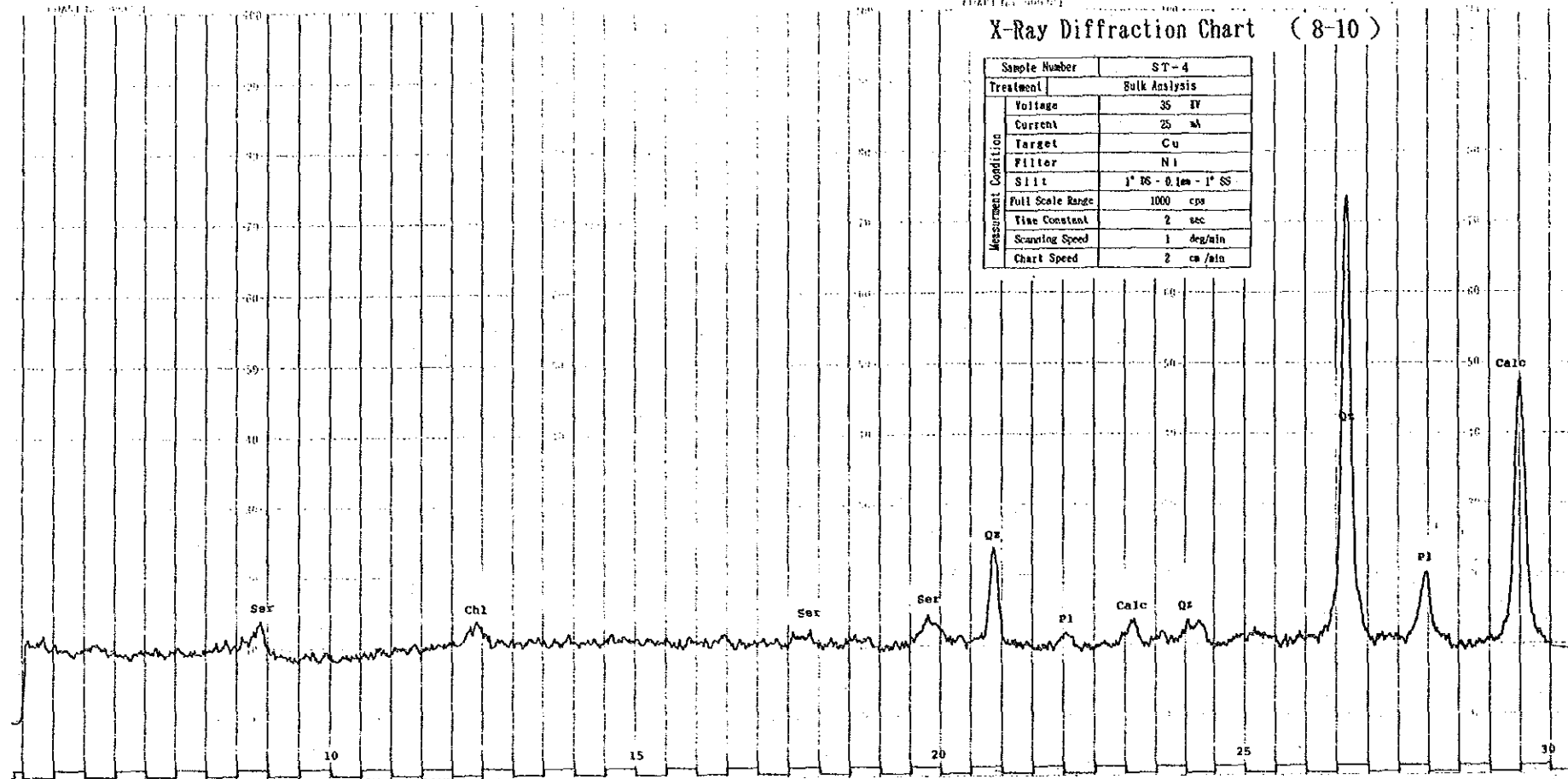


### X-Ray Diffraction Chart

Sample Number	ST-3
Treatment	Clay Fraction (Heat)
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	Ni
Slit	1° DS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	2 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



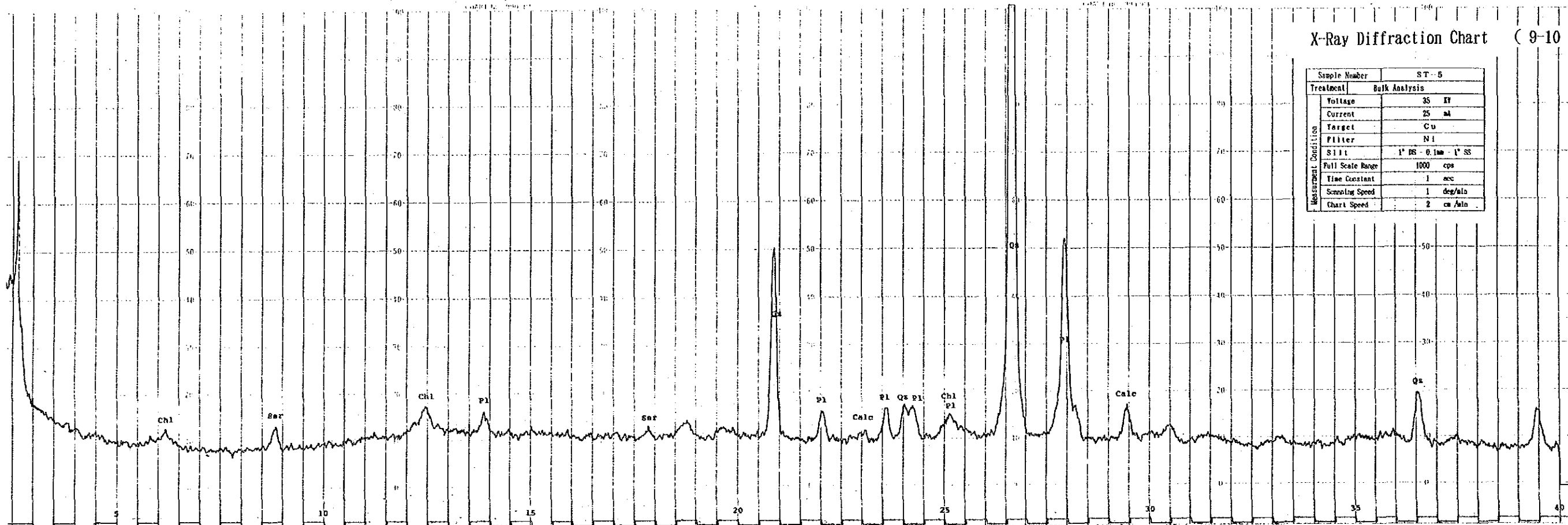






X-Ray Diffraction Chart (9-10)

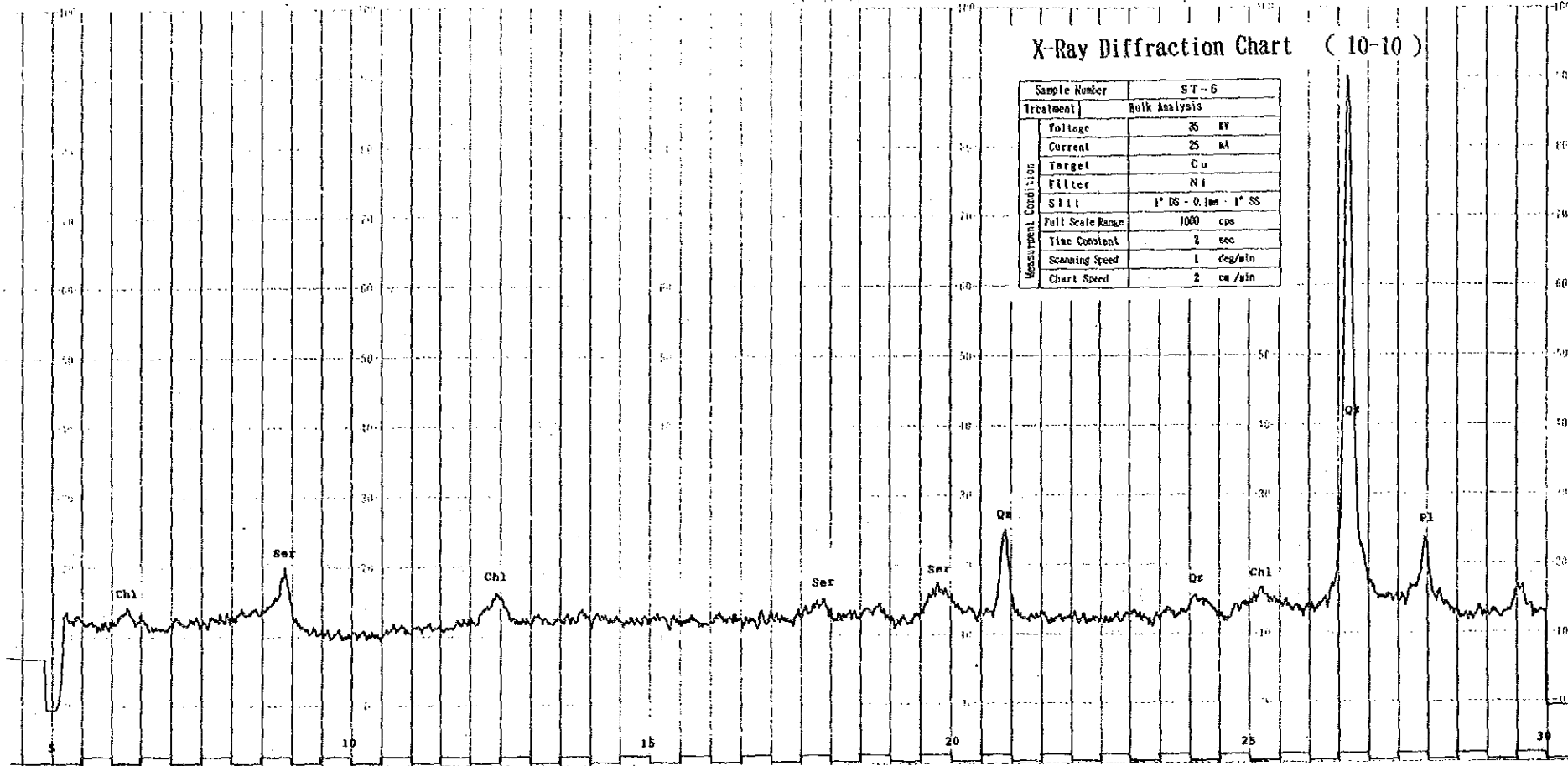
Sample Number	ST-5
Treatment	Bulk Analysis
Voltage	35 KV
Current	25 mA
Target	Cu
Filter	NI
Slit	1° BS - 0.1mm - 1° SS
Full Scale Range	1000 cps
Time Constant	1 sec
Scanning Speed	1 deg/min
Chart Speed	2 cm/min



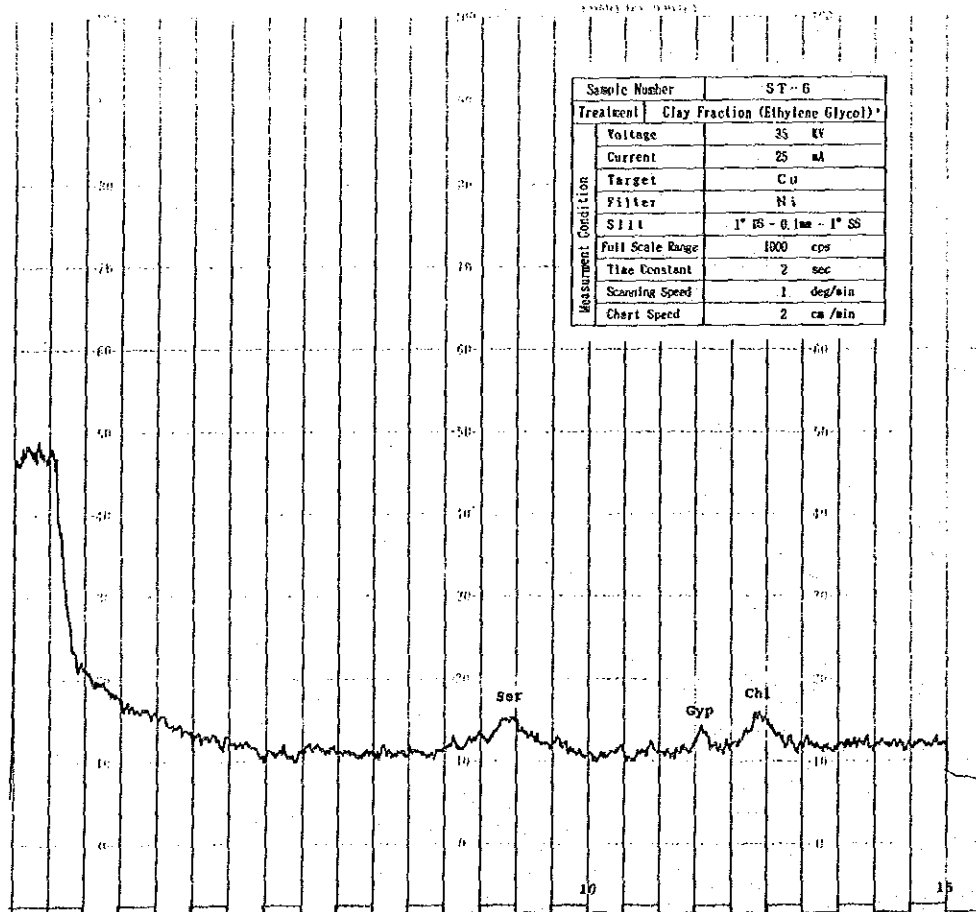


### X-Ray Diffraction Chart ( 10-10 )

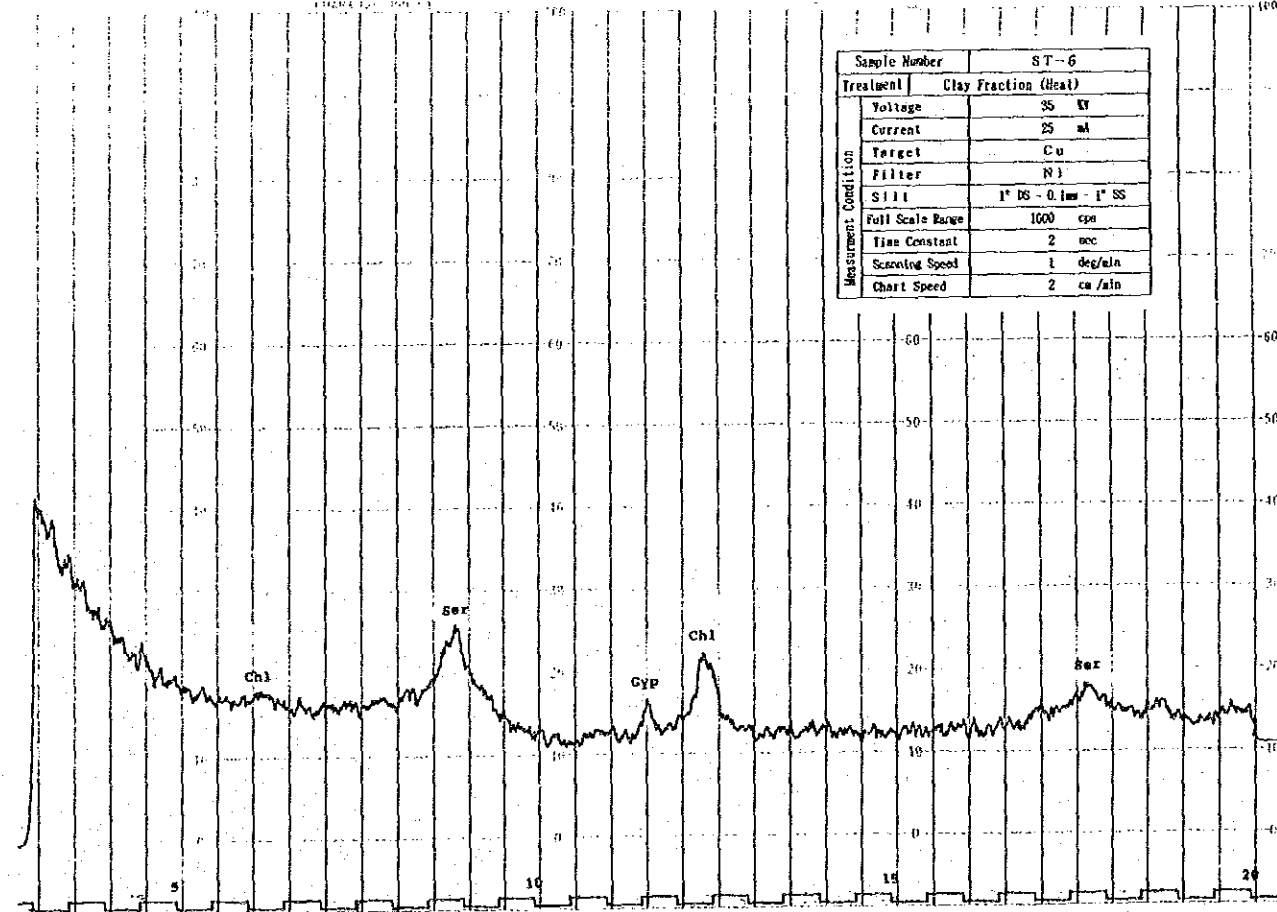
Sample Number		ST-6	
Treatment		Bulk Analysis	
Voltage	35	kv	
Current	25	ma	
Target	Cu		
Filter	Ni		
Slit	1" DS - 0.1mm - 1" SS		
Full Scale Range	1000 cps		
Time Constant	2 sec		
Scanning Speed	1 deg/min		
Chart Speed	2 cm/min		



Sample Number		ST-6	
Treatment		Clay Fraction (Ethylene Glycol)	
Voltage	35	kv	
Current	25	ma	
Target	Cu		
Filter	Ni		
Slit	1" DS - 0.1mm - 1" SS		
Full Scale Range	1000 cps		
Time Constant	2 sec		
Scanning Speed	1 deg/min		
Chart Speed	2 cm/min		



Sample Number		ST-6	
Treatment		Clay Fraction (Heat)	
Voltage	35	kv	
Current	25	ma	
Target	Cu		
Filter	Ni		
Slit	1" DS - 0.1mm - 1" SS		
Full Scale Range	1000 cps		
Time Constant	2 sec		
Scanning Speed	1 deg/min		
Chart Speed	2 cm/min		



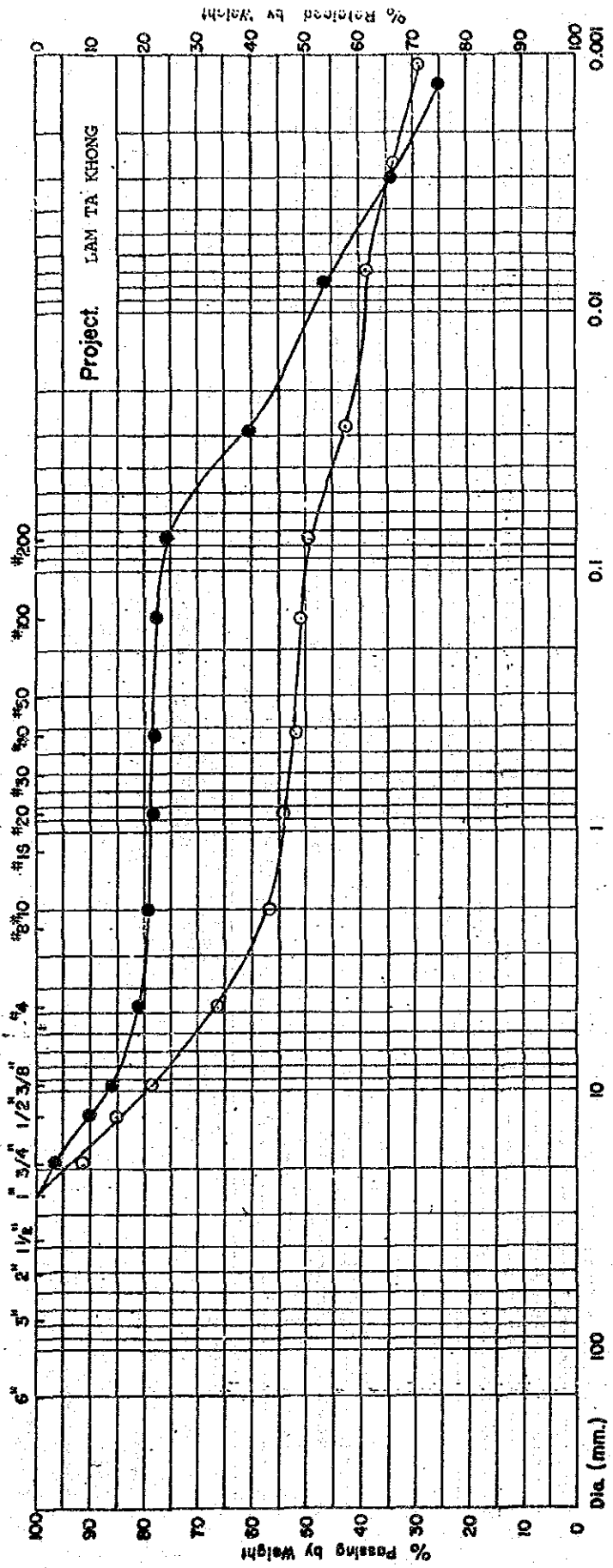




A-9 TEST DATA FOR EMBANKMENT MATERIAL

- A-9-(1) GRAIN SIZE DISTRIBUTION AND ATTERBERG LIMITS
- A-9-(2) COMPACTION AND PERMEABILITY CURVES
- A-9-(3) TRIAXIAL TEST DATA



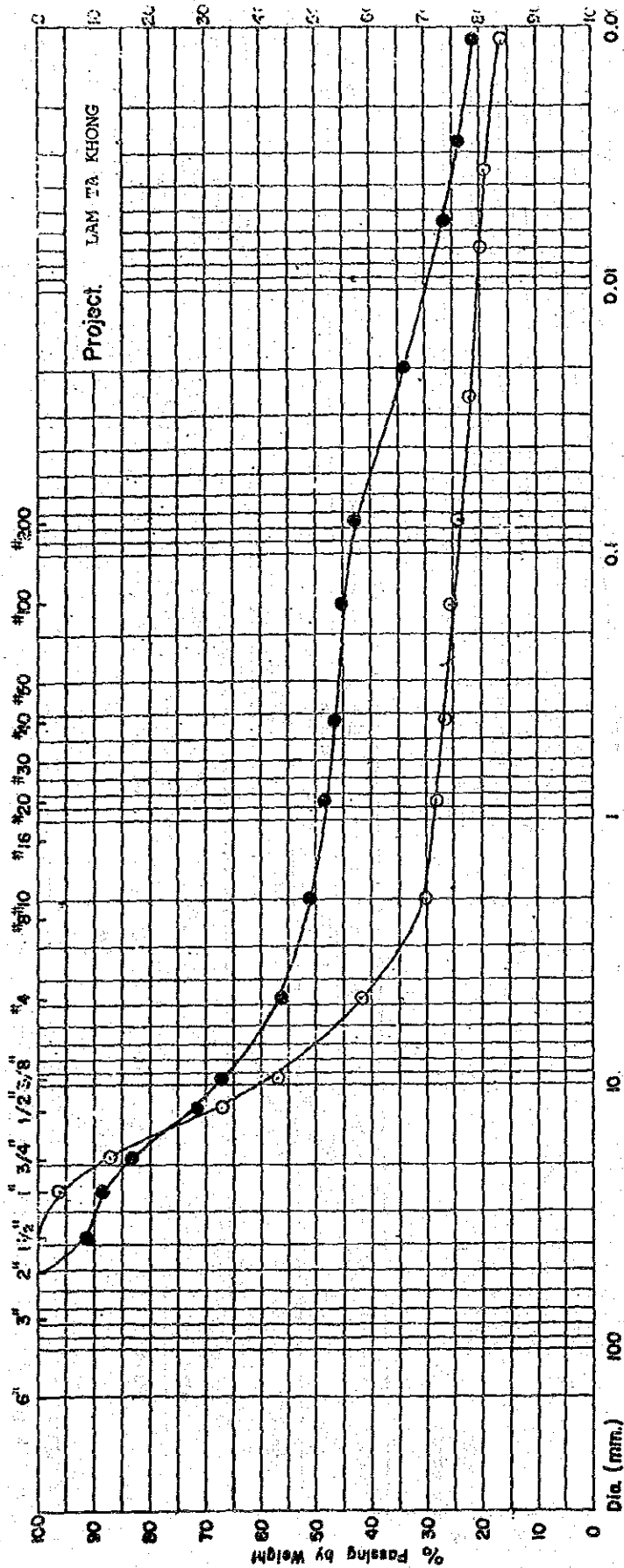


MIT.	GRAVEL		SAND			SILT		CLAY	
	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE	COARSE	MEDIUM	FINE
USCS	GRAVEL		SAND			SILT		CLAY	
AASHTO	GRAVEL		SAND			SILT		CLAY	

SAMPLE NUMBER	DEPTH (m)	SYMBOL	SOIL CLASSIFICATION	SPECIFIC GRAVITY	WATER CONTENT AT RECEIVED	ATTEBERG LIMITS		
						LL	PL	PI
PU-1	0.50-3.00	○	GM	2.72	4.03	56.00	35.96	20.04
	3.0-5.00	●	ML	2.67	6.19	44.00	27.29	16.71

Fig Grain Size Distribution and Atterberg Limits [Sheet] of [ ]



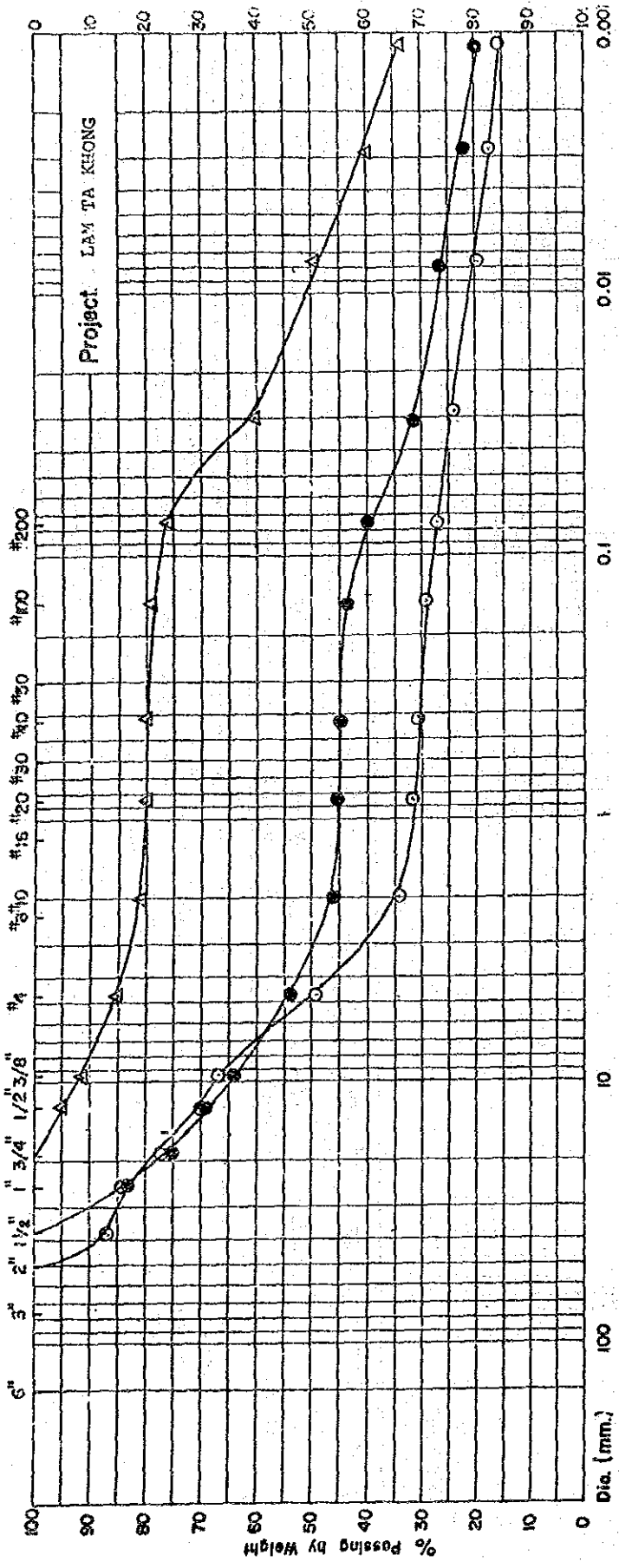


MIT.	GRAVEL		SAND			SILT	CLAY
	COARSE	MEDIUM	FINE	COARSE	MEDIUM		
USCS	COARSE GRAVEL		COARSE SAND	MEDIUM SAND	FINE SAND	SILT	CLAY
AASHO	GRAVEL		COARSE SAND	MEDIUM SAND	FINE SAND	SILT	CLAY

SAMPLE NUMBER	DEPTH (m)	SYMBOL	SOIL CLASSIFICATION	SPECIFIC GRAVITY	WATER CONTENT AT RECEIVED		ATTERBERG LIMITS	
					GM	GM	LL	PL
PD-3	0.70-3.10	○	GM	2.78	10.95	53.30	36.12	17.19
	3.10-5.00	●	GM	2.67	6.62	47.00	29.35	17.65

Fig. Grain Size Distribution and Atterberg Limits

Sheet 3

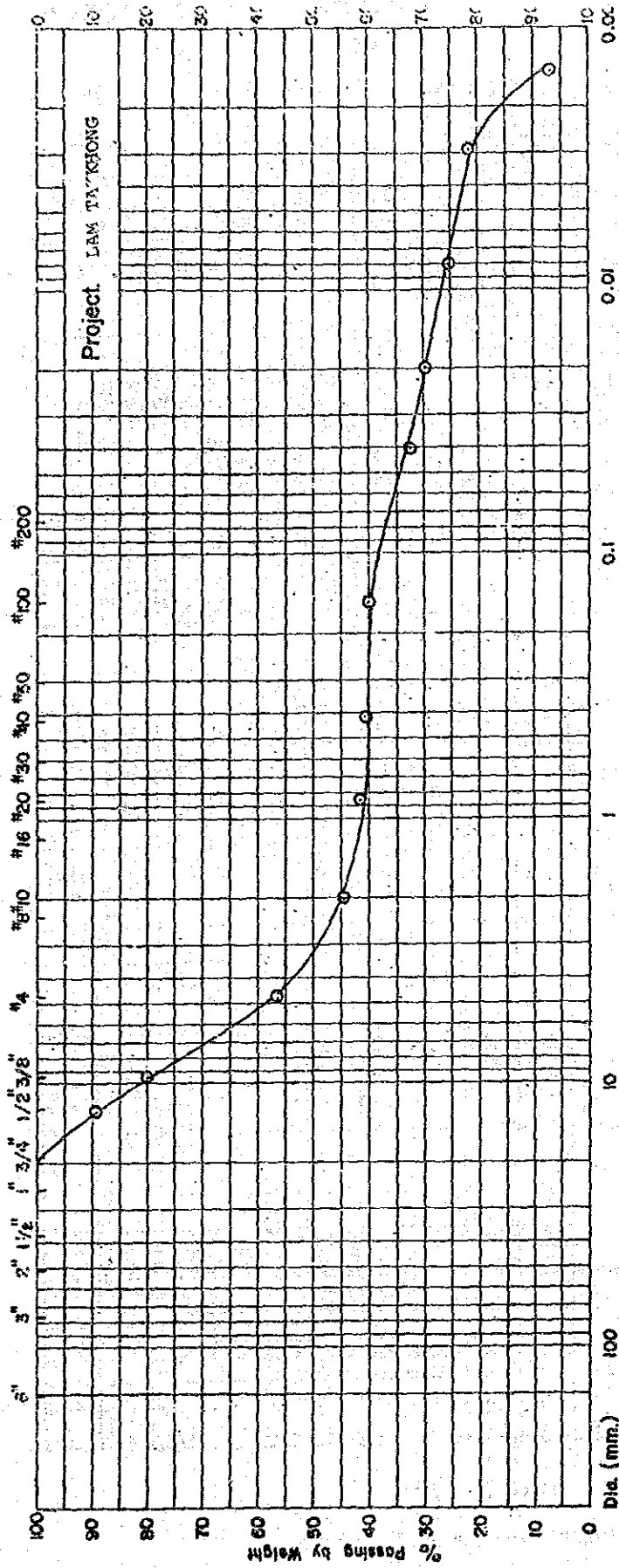


MIT.	GRAVEL		SAND		SILT		CLAY	
	COARSE	FINE	COARSE	FINE	COARSE	FINE	COARSE	FINE
USCS	COARSE GRAVEL	FINE GRAVEL	COARSE SAND	FINE SAND	COARSE SILT	FINE SILT	COARSE CLAY	FINE CLAY
AASHO	GRAVEL		SAND		SILT		CLAY	

SAMPLE NUMBER	DEPTH (m)	SYMBOL	SOIL CLASSIFICATION	SPECIFIC GRAVITY	WATER CONTENT AT RECEIVED	ATTERBERG LIMITS		
						LL	PL	PI
PO-4	0.60-3.10	○	GM	2.81	5.06	45.00	31.57	13.43
	3.10-4.40	●	GM	2.72	5.13	45.80	27.96	17.84
	4.40-5.00	△	ML-CL	2.80	3.99	45.90	25.90	20.00

Fig Grain Size Distribution and Atterberg Limits

Sheet of



MIT.	GRAVEL		SAND			SILT	CLAY
	COARSE	MEDIUM	FINE	COARSE	MEDIUM		
USCS	GRAVEL		SAND			SILT	CLAY
AASHTO	GRAVEL		SAND			SILT	CLAY

SAMPLE NUMBER	DEPTH (m)	SYMBOL	SOIL CLASSIFICATION	SPECIFIC GRAVITY	ATTERBERG LIMITS	
					LL	PL
PU-4	0.60-5.00	O	GM	2.79	46.40	17.30

Fly Grain Size Distribution and Atterberg Limits

Sheet 2/2

MATERIAL TESTING SECTION  
EGAT

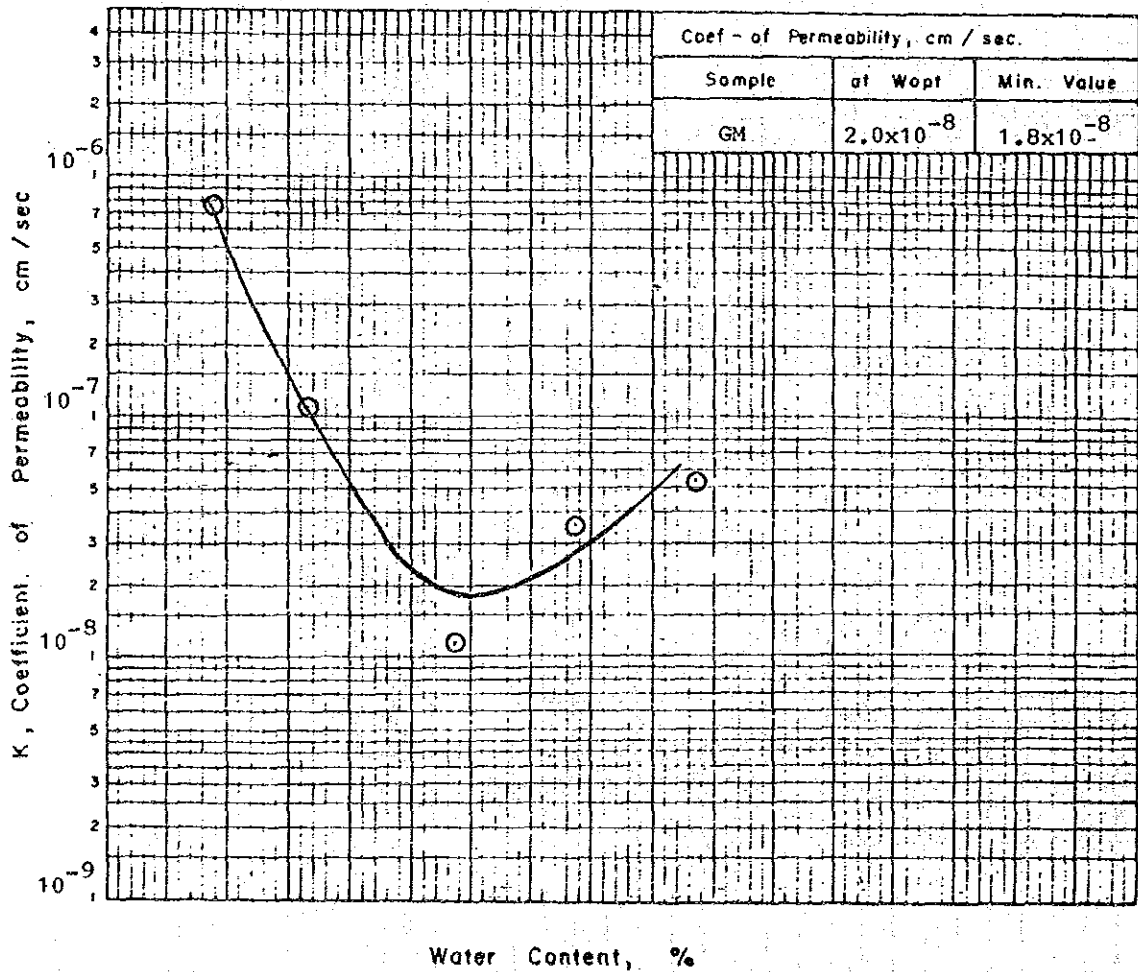
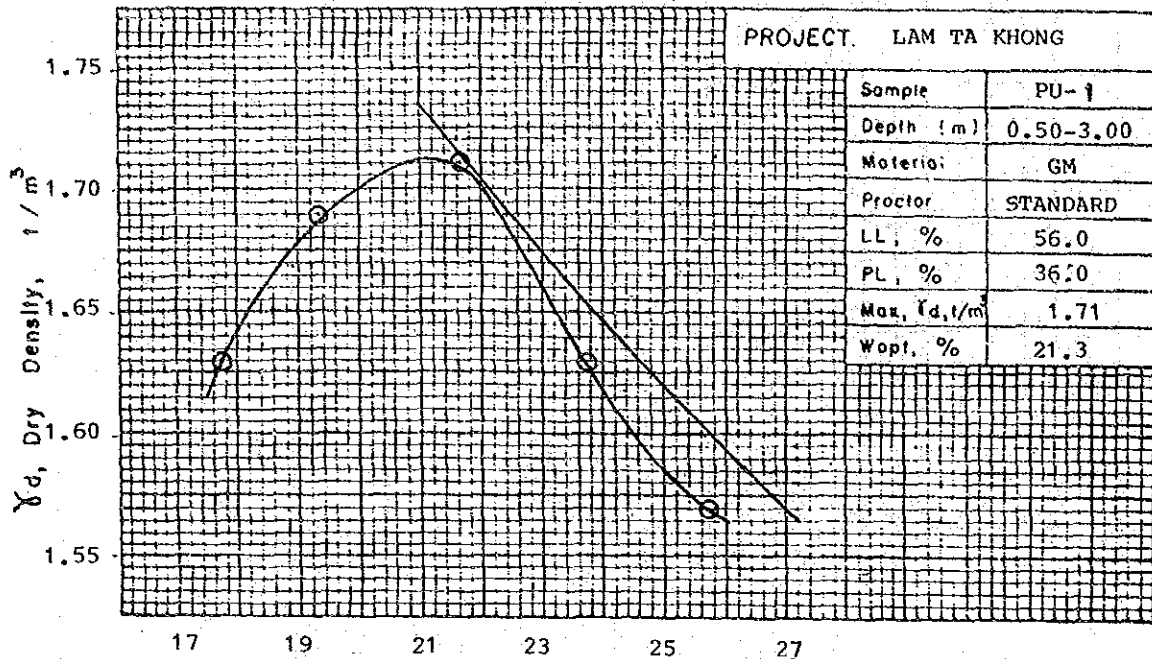


Fig. Compaction and Permeability Curves



MATERIAL TESTING SECTION  
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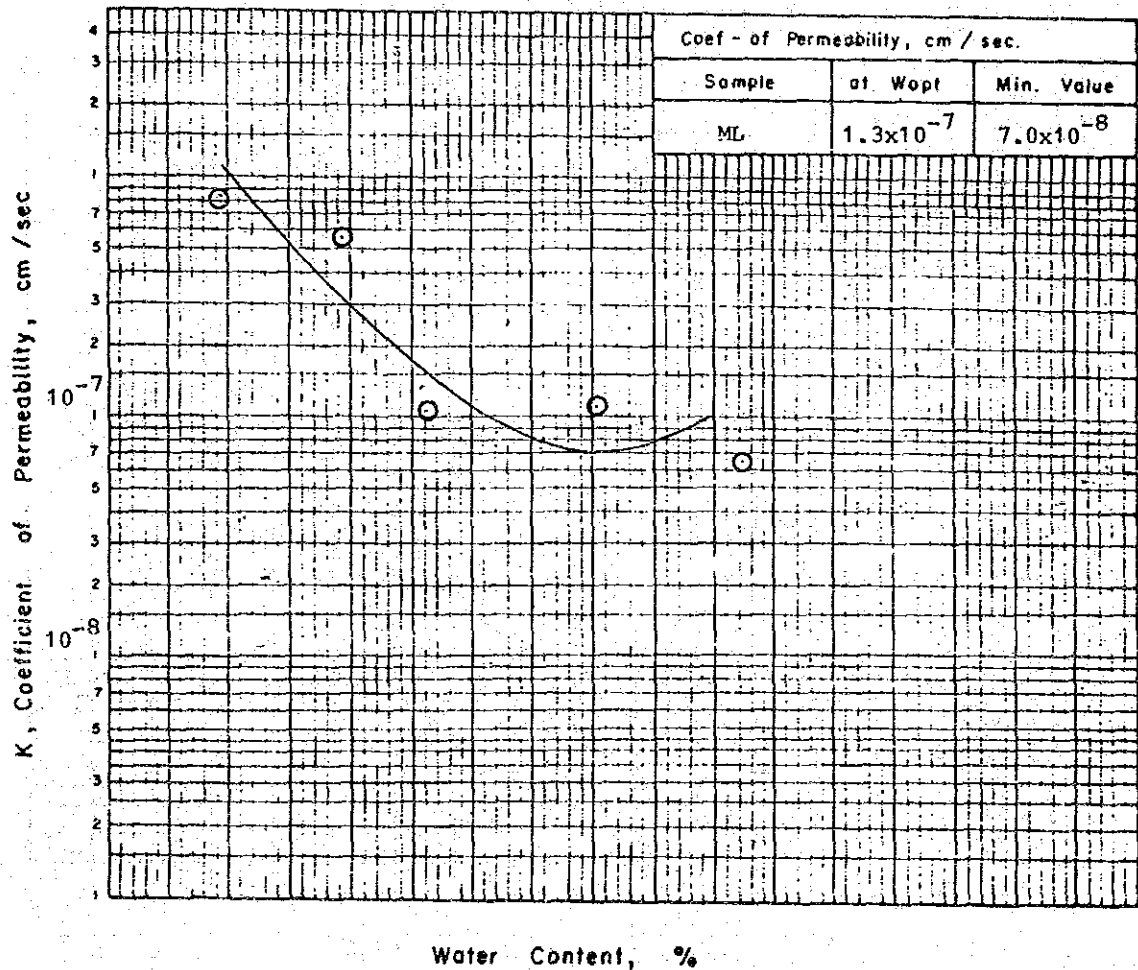
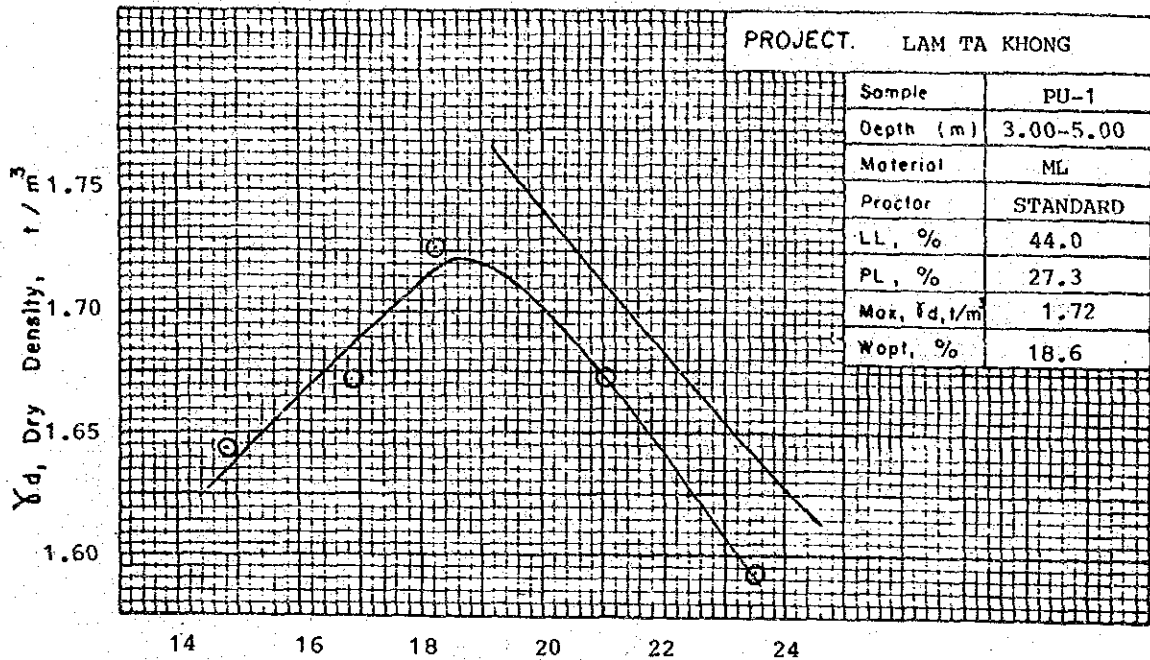


Fig. Compaction and Permeability Curves

MATERIAL TESTING SECTION  
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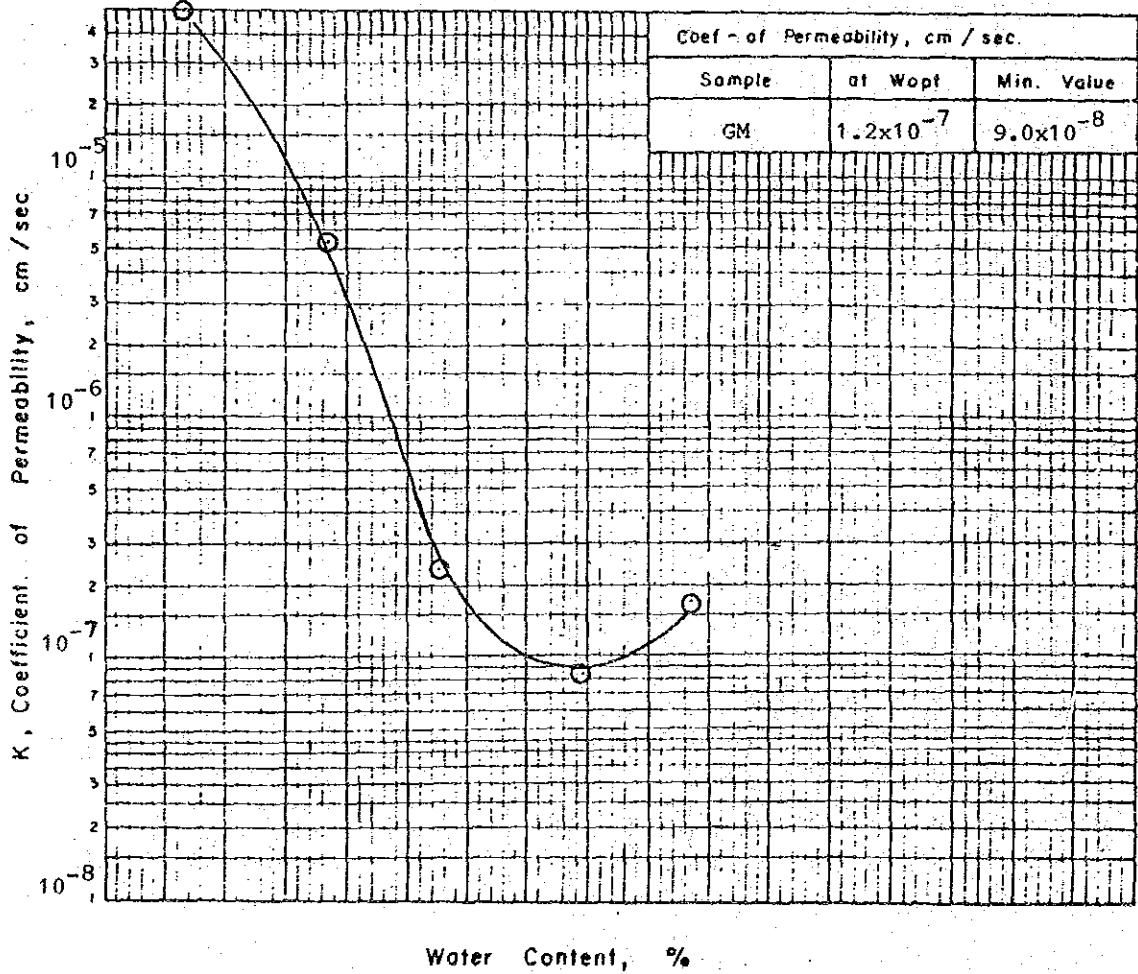
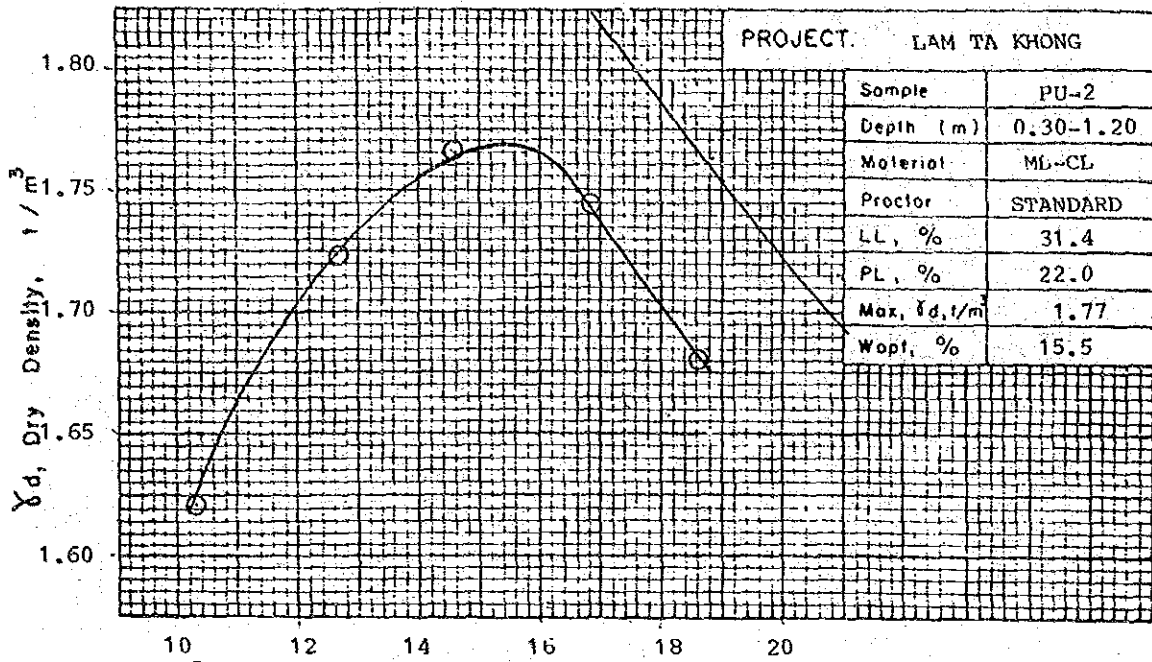


Fig. Compaction and Permeability Curves

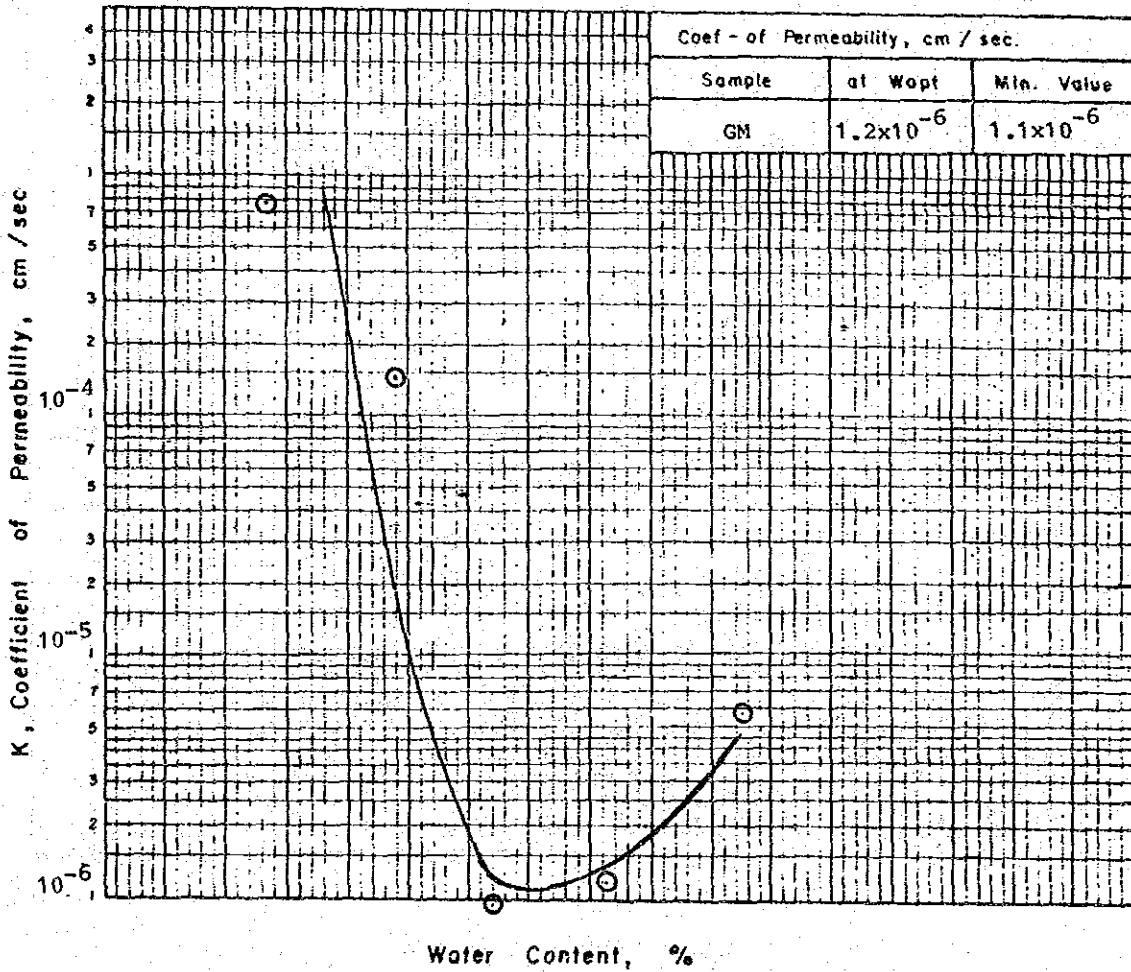
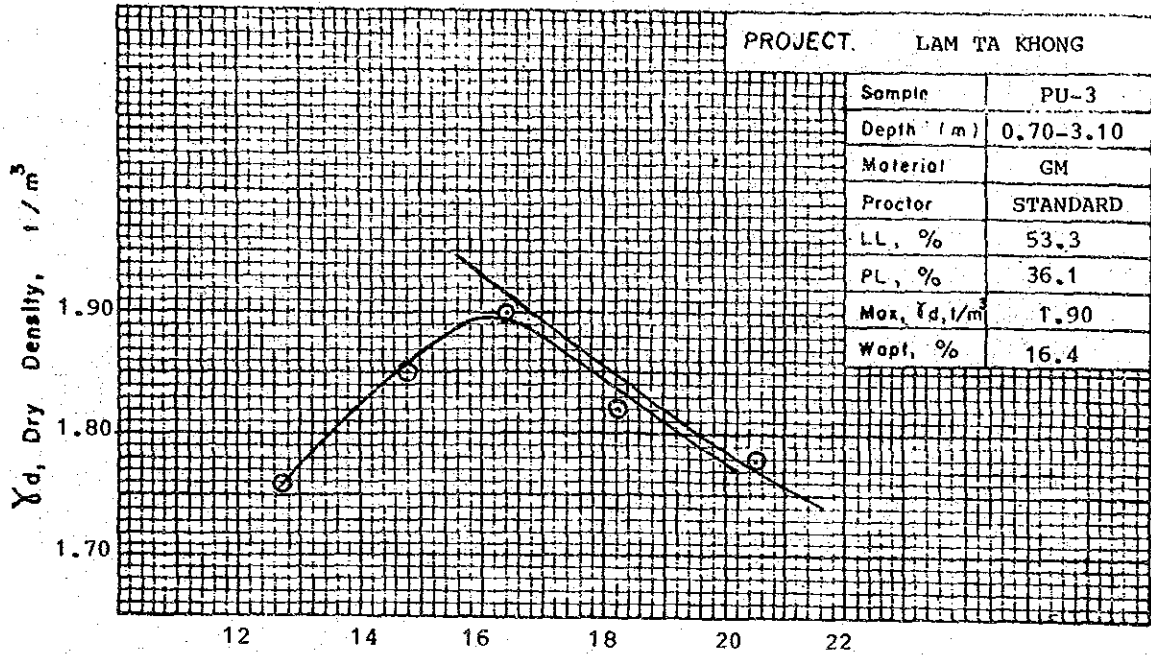


Fig. Compaction and Permeability Curves

MATERIAL TESTING SECTION  
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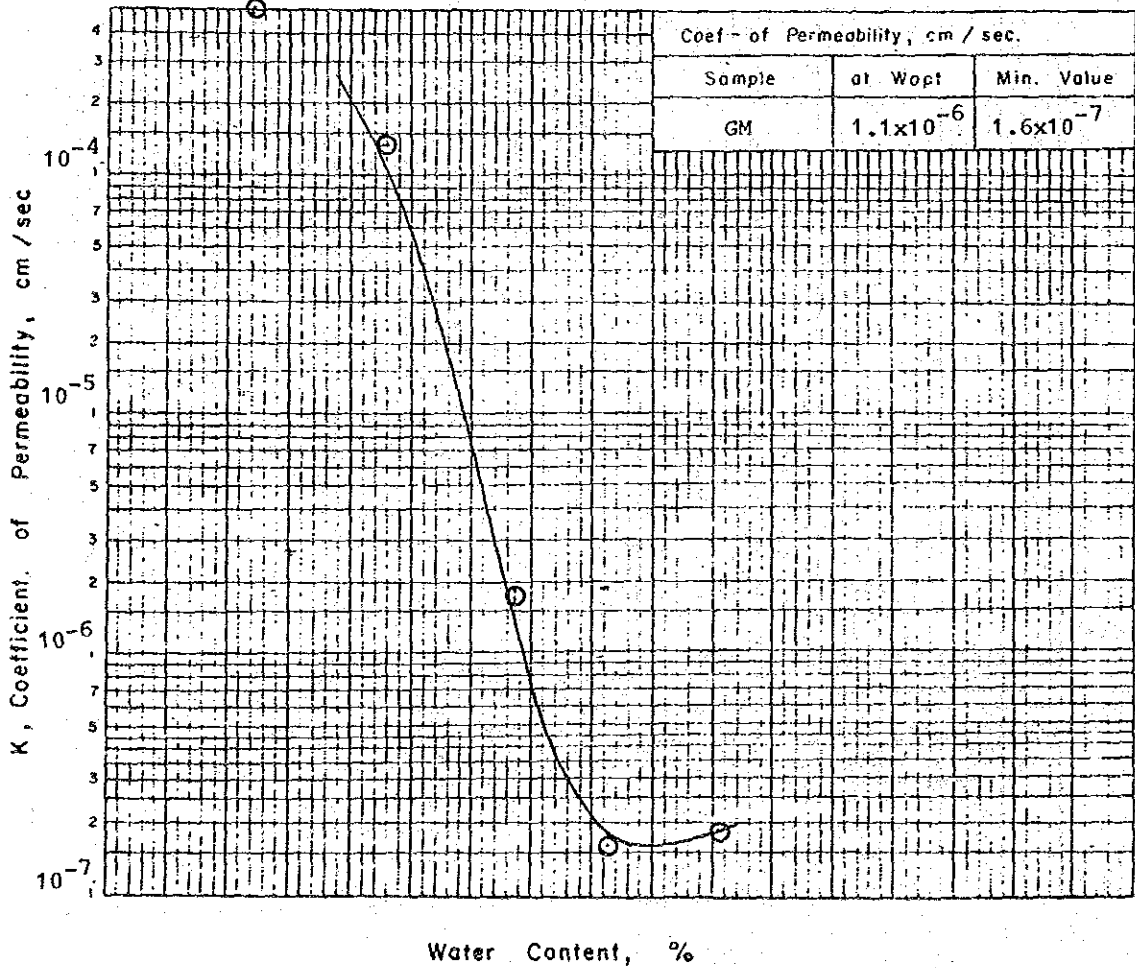
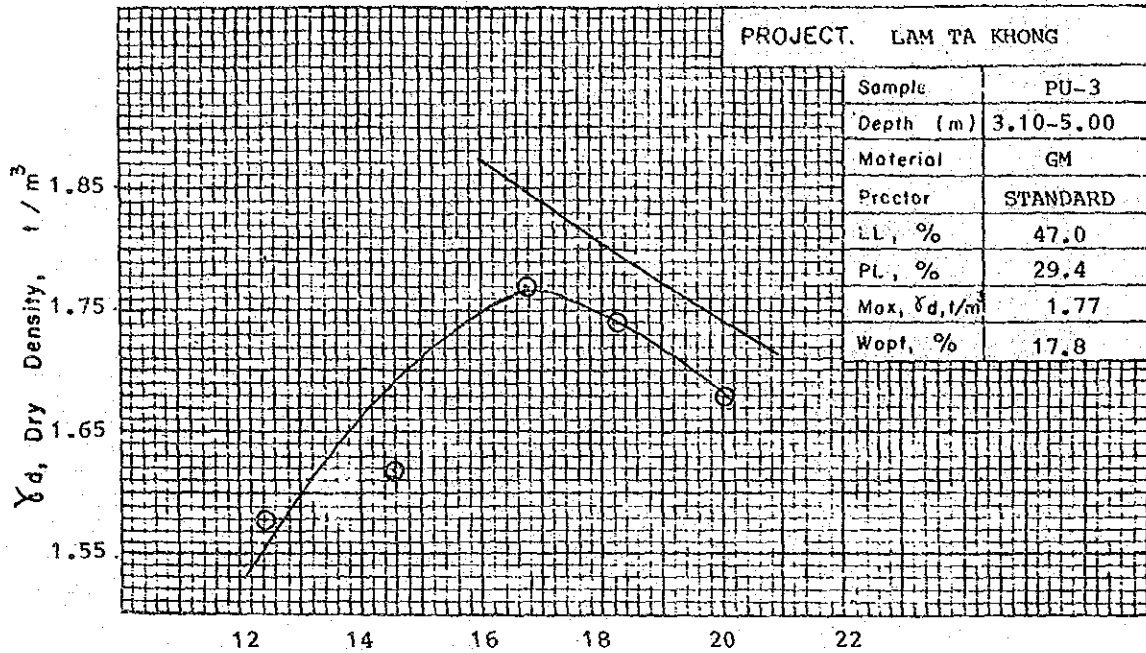


Fig. Compaction and Permeability Curves

MATERIAL TESTING SECTION  
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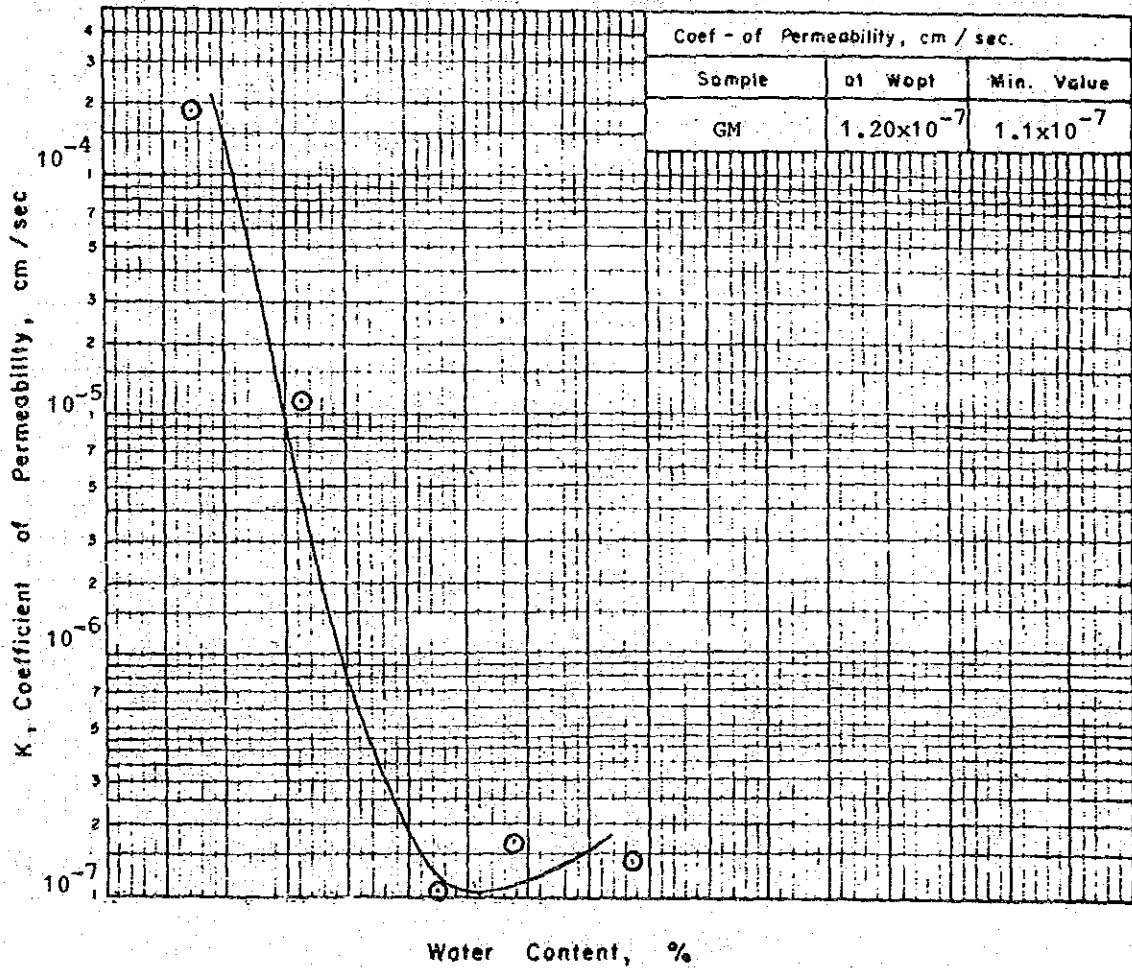
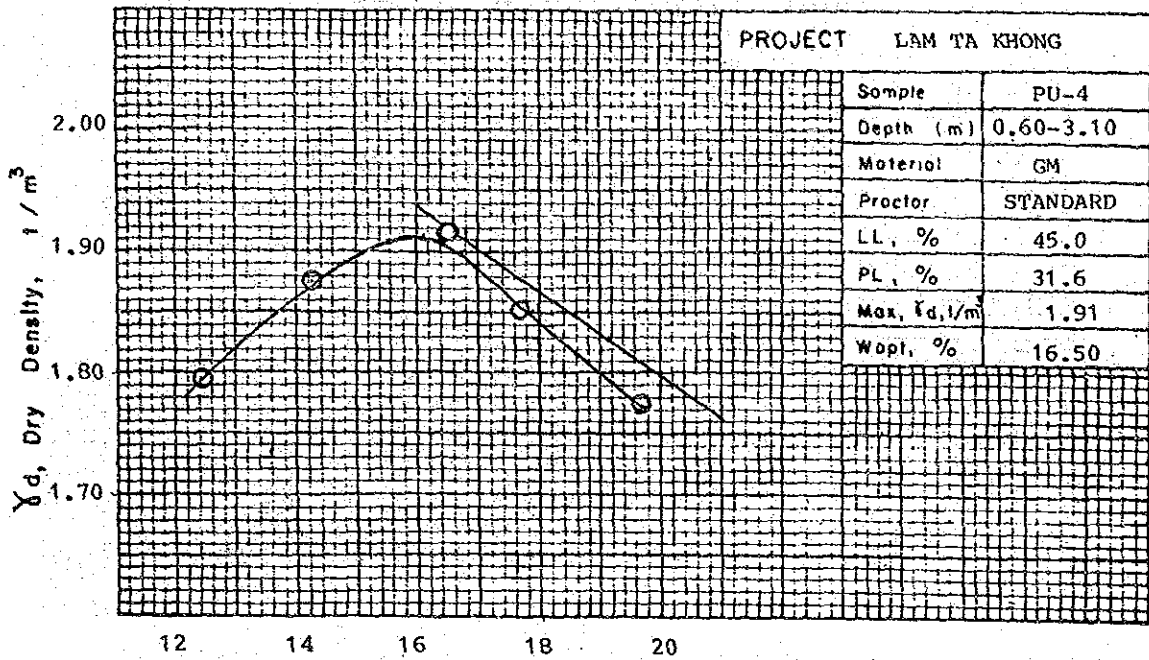


Fig. Compaction and Permeability Curves

MATERIAL TESTING SECTION  
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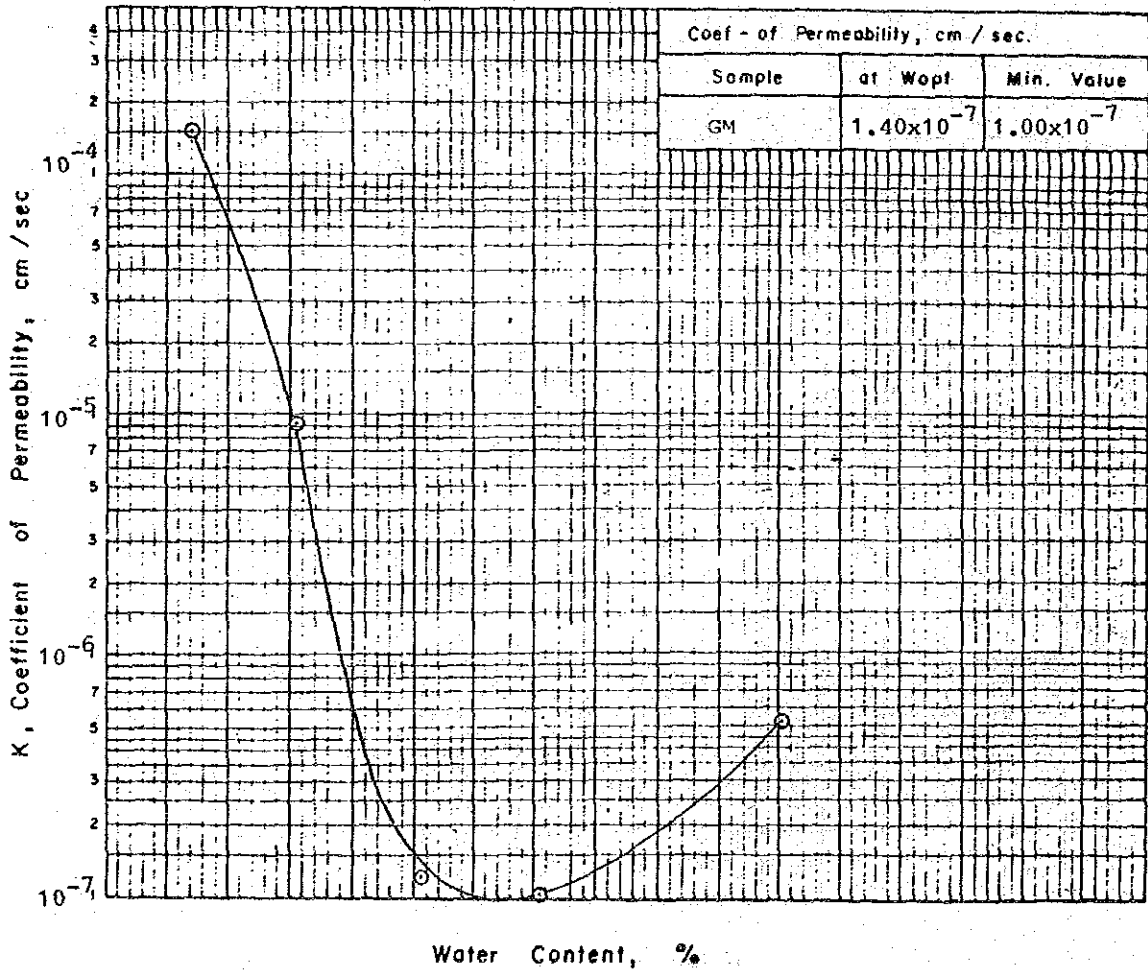
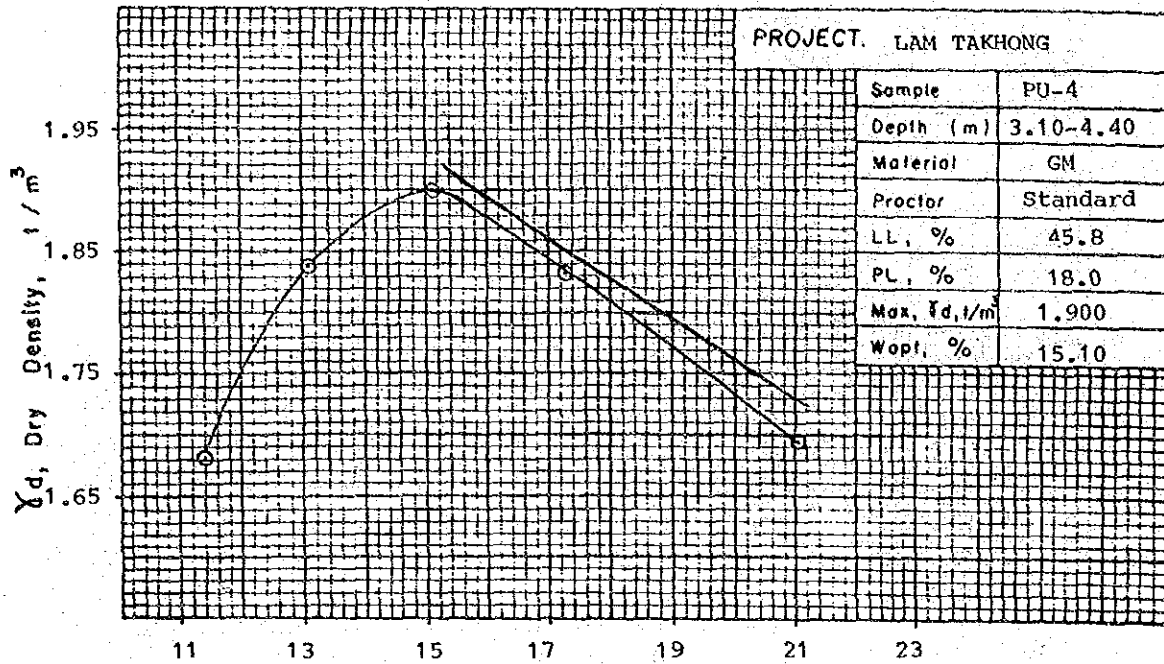


Fig. Compaction and Permeability Curves

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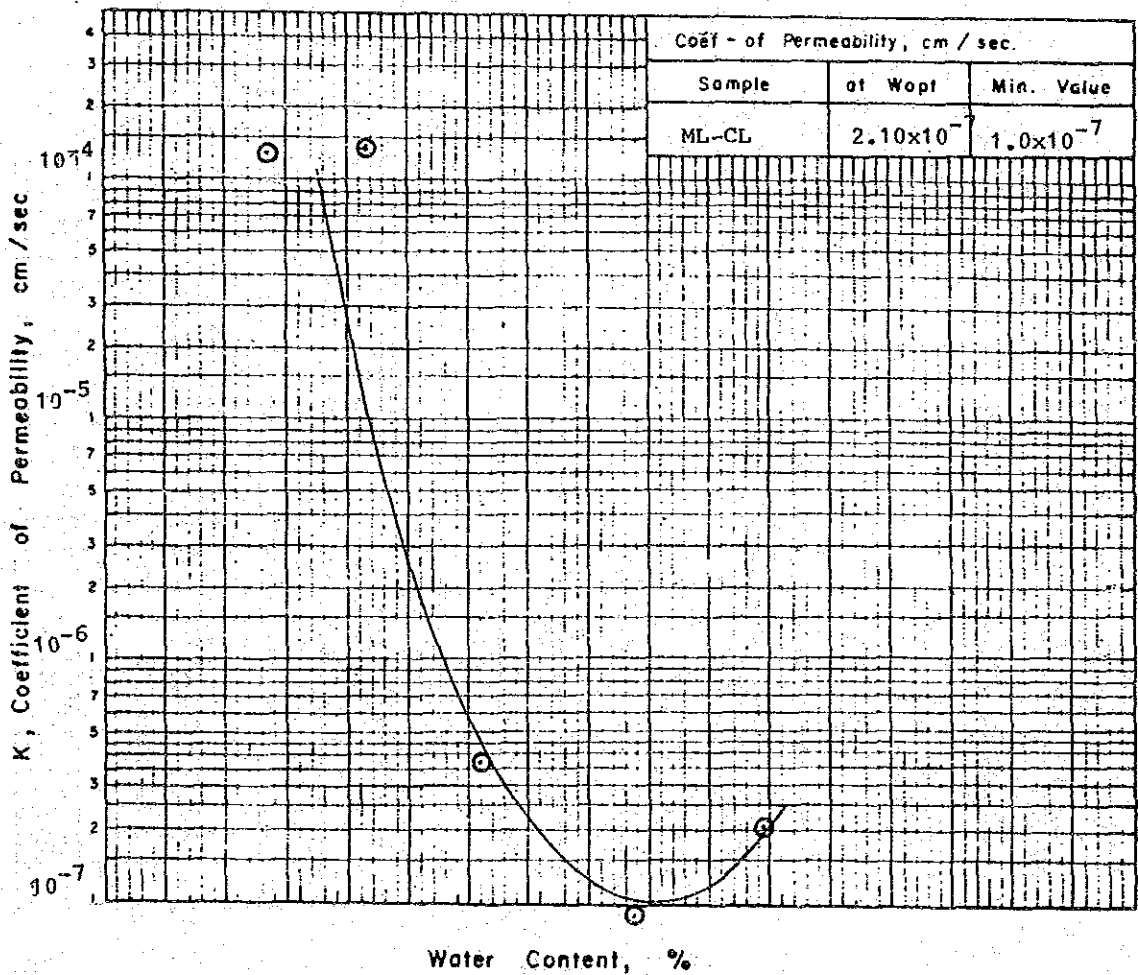
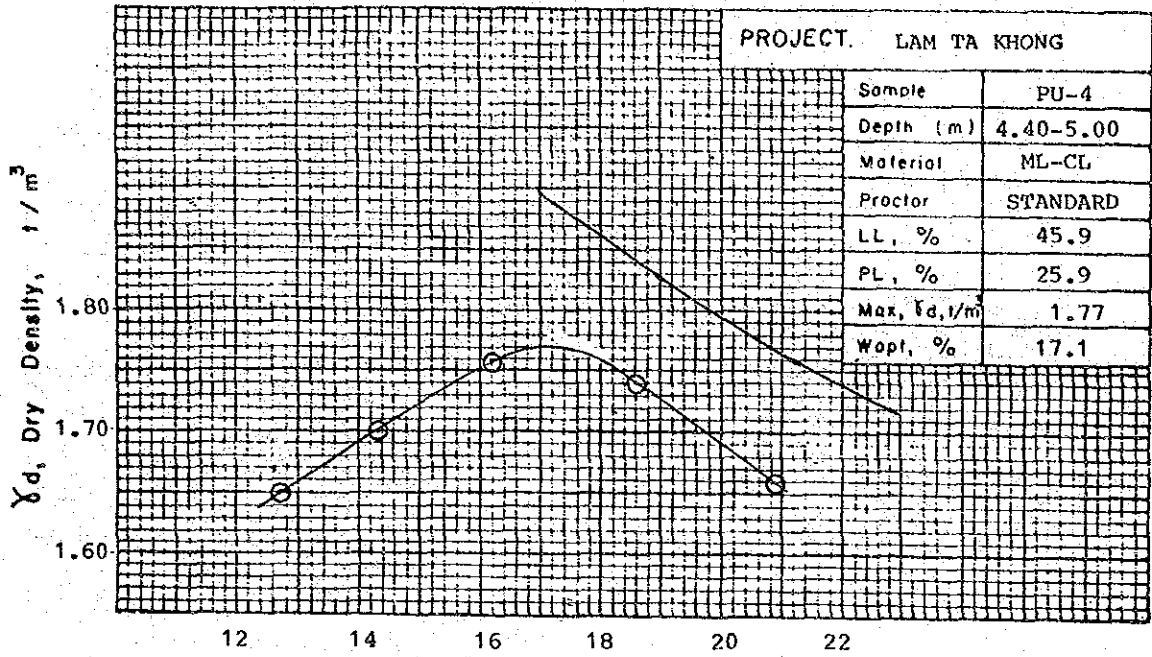


Fig. Compaction and Permeability Curves



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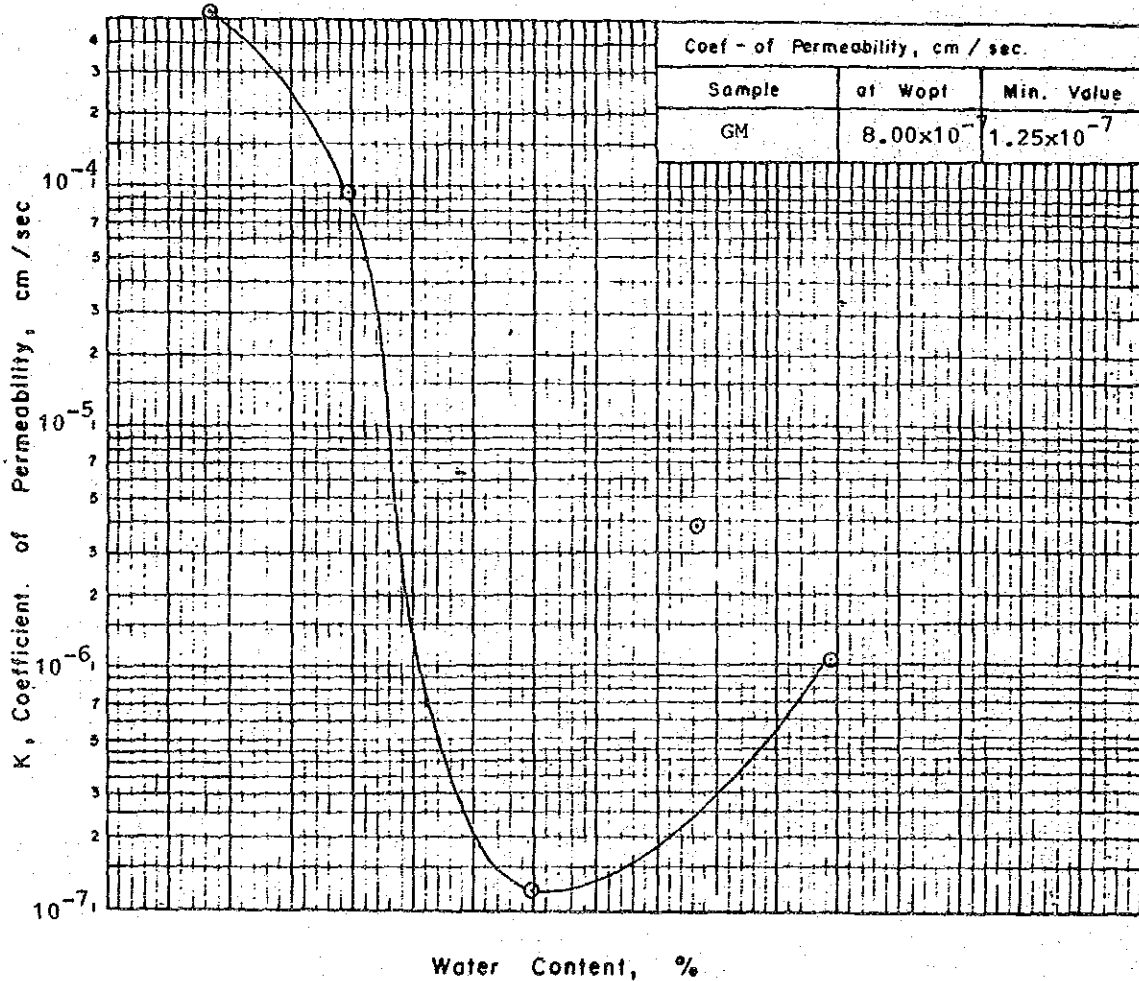
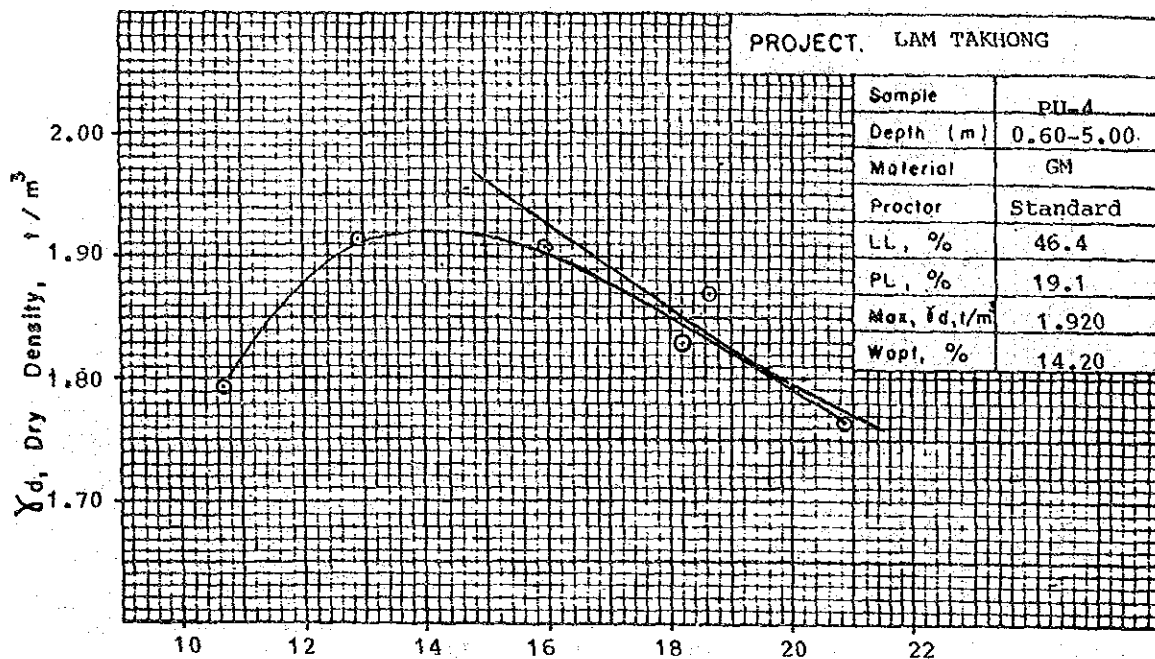


Fig. Compaction and Permeability Curves



TRIAxIAL TEST RESULT

Material Testing Section, Geology and Soil Engineering Division, Survey and Ecology Department, ECAT.  
 Project LAN-TAKONG IP or BH PU-3 ,Depth = 3.18-5.03 m. ,Specimen No. = 1  
 Type of Specimen ,Strain rate (in./min) = 0.1 ,Type of Test : CIU

Init.Height(cm.) = 28.37 ,Init.Diameter(cm) = 10.19 ,Init.Area (sq.cm.) = 81.553 V<sub>0</sub> = 1661.23  
 Cell Pressure = 58.88 psi. = 3.52 kg/sq.cm. ,Init.Pore Pressure rdg. = 30.388 psi. 2.13 kg/sq.cm  
 Back Pressure = 30.88 psi.  
 Eff.Conf.Pressure = 19.78 psi. = 1.365 kg/sq.cm. ,Proving Ring Constant = 0.8259 kg/div.  
 Max Dry Density from Standard Proctor = 1.778 ton/cu.m at Optimum Water Content = 15.80 %  
 Dry Density from Compression Method = 1.571 ton/cu.m at Water Content = 19.64 % by Comp. Stress = 4.888 kgf/sq.cm  
 Percentage of Compression Dry Density = 94.41 % Sample Plassing Sieve Number: 3/4 inch "B" Value = 58.84  
 Volume Change = 26.88 cc. H<sub>c</sub> = 28.26 cc. V<sub>c</sub> = 1635.23 cc. A<sub>c</sub> = 88.78 sq.cm  
 Preparation date : 15/10/33 Saturation date : 17/10/33  
 Consolidation date: 22/10/33 Shearing date : 24/10/33

Defor. Load Dial	Lead	Poretn	Strain	Cor.	Area	Dev.	Stress	Excess	u	Nor.	DS	A-Para	P1 Eff.	P3 Eff.	Eff.P	Eff.D
kg./sq.cm	mm.	Div	%	sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm	kg/sq.cm
0.0	0.0	383	0.00	80.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	1.39	1.39	0.00
5.0	45.0	316	0.02	80.72	0.46	0.27	0.33	0.20	1.75	1.29	1.52	0.23				
15.0	65.0	331	0.07	80.76	0.66	0.26	0.40	0.30	1.85	1.19	1.52	0.33				
25.0	78.0	342	0.12	80.80	0.78	0.27	0.56	0.35	1.87	1.11	1.58	0.39				
40.0	85.0	355	0.20	80.86	0.87	0.37	0.63	0.42	1.89	1.02	1.45	0.43				
55.0	89.0	364	0.27	80.92	0.91	0.43	0.66	0.47	1.88	0.98	1.41	0.45				
70.0	92.0	372	0.35	80.98	0.94	0.49	0.68	0.52	1.84	0.98	1.37	0.47				
90.0	94.0	380	0.44	81.04	0.95	0.54	0.69	0.57	1.82	0.84	1.32	0.48				
110.0	94.0	385	0.54	81.14	0.96	0.58	0.69	0.60	1.77	0.81	1.29	0.48				
130.0	94.0	391	0.64	81.22	0.96	0.62	0.69	0.65	1.72	0.77	1.24	0.48				
150.0	94.0	394	0.74	81.30	0.95	0.64	0.69	0.67	1.70	0.75	1.22	0.48				
170.0	92.0	398	0.84	81.38	0.93	0.67	0.67	0.72	1.65	0.72	1.16	0.47				
180.0	92.0	399	0.89	81.42	0.93	0.67	0.67	0.72	1.64	0.71	1.18	0.47				
200.0	92.0	403	0.99	81.50	0.93	0.70	0.67	0.75	1.61	0.68	1.15	0.47				
220.0	90.0	406	1.09	81.58	0.91	0.72	0.66	0.79	1.57	0.66	1.12	0.46				
240.0	90.0	407	1.18	81.66	0.91	0.73	0.66	0.83	1.56	0.65	1.11	0.46				
260.0	89.0	409	1.29	81.75	0.90	0.75	0.65	0.83	1.54	0.64	1.09	0.45				
300.0	87.0	412	1.48	81.91	0.88	0.77	0.63	0.87	1.50	0.62	1.06	0.44				
350.0	86.0	416	1.73	82.12	0.86	0.79	0.62	0.92	1.46	0.59	1.02	0.43				
400.0	85.0	419	1.97	82.32	0.85	0.82	0.62	0.96	1.42	0.57	1.00	0.43				
500.0	83.0	424	2.47	82.74	0.83	0.85	0.60	1.03	1.36	0.53	0.95	0.41				
600.0	82.0	427	2.96	83.16	0.81	0.87	0.59	1.07	1.33	0.51	0.92	0.41				
700.0	82.0	430	3.45	83.58	0.81	0.89	0.58	1.10	1.30	0.49	0.90	0.41				
900.0	82.0	435	4.44	84.45	0.80	0.93	0.58	1.16	1.26	0.46	0.86	0.40				
1100.0	83.0	437	5.43	85.33	0.80	0.94	0.58	1.17	1.25	0.44	0.84	0.40				
1300.0	83.0	437	6.42	86.23	0.81	0.94	0.59	1.16	1.26	0.44	0.85	0.41				
1500.0	80.0	437	7.40	87.15	0.83	0.94	0.60	1.13	1.28	0.44	0.86	0.42				
1700.0	91.0	437	8.39	88.09	0.85	0.94	0.62	1.10	1.30	0.44	0.87	0.43				
2000.0	96.0	436	9.87	89.53	0.89	0.94	0.64	1.06	1.34	0.45	0.89	0.44				
2300.0	101.0	436	11.35	91.03	0.92	0.94	0.66	1.02	1.37	0.45	0.91	0.46				
2500.0	105.0	436	12.34	92.05	0.94	0.94	0.68	0.99	1.39	0.45	0.92	0.47				
2700.0	109.0	436	13.32	93.10	0.97	0.94	0.70	0.97	1.42	0.45	0.93	0.48				
3000.0	115.0	437	14.80	94.72	1.00	0.94	0.72	0.94	1.45	0.44	0.94	0.50				
3200.0	118.0	436	15.79	95.83	1.02	0.94	0.73	0.92	1.47	0.45	0.96	0.51				
3600.0	125.0	436	17.77	98.13	1.05	0.94	0.76	0.89	1.50	0.45	0.98	0.53				
3900.0	129.0	434	19.25	99.93	1.07	0.92	0.77	0.86	1.53	0.46	1.00	0.53				
4200.0	133.0	434	20.73	101.80	1.08	0.92	0.78	0.85	1.54	0.46	1.00	0.54				
4500.0	137.0	433	22.21	103.73	1.07	0.91	0.79	0.84	1.56	0.47	1.02	0.55				
5000.0	146.0	431	24.67	107.13	1.13	0.90	0.81	0.80	1.61	0.47	1.05	0.56				