

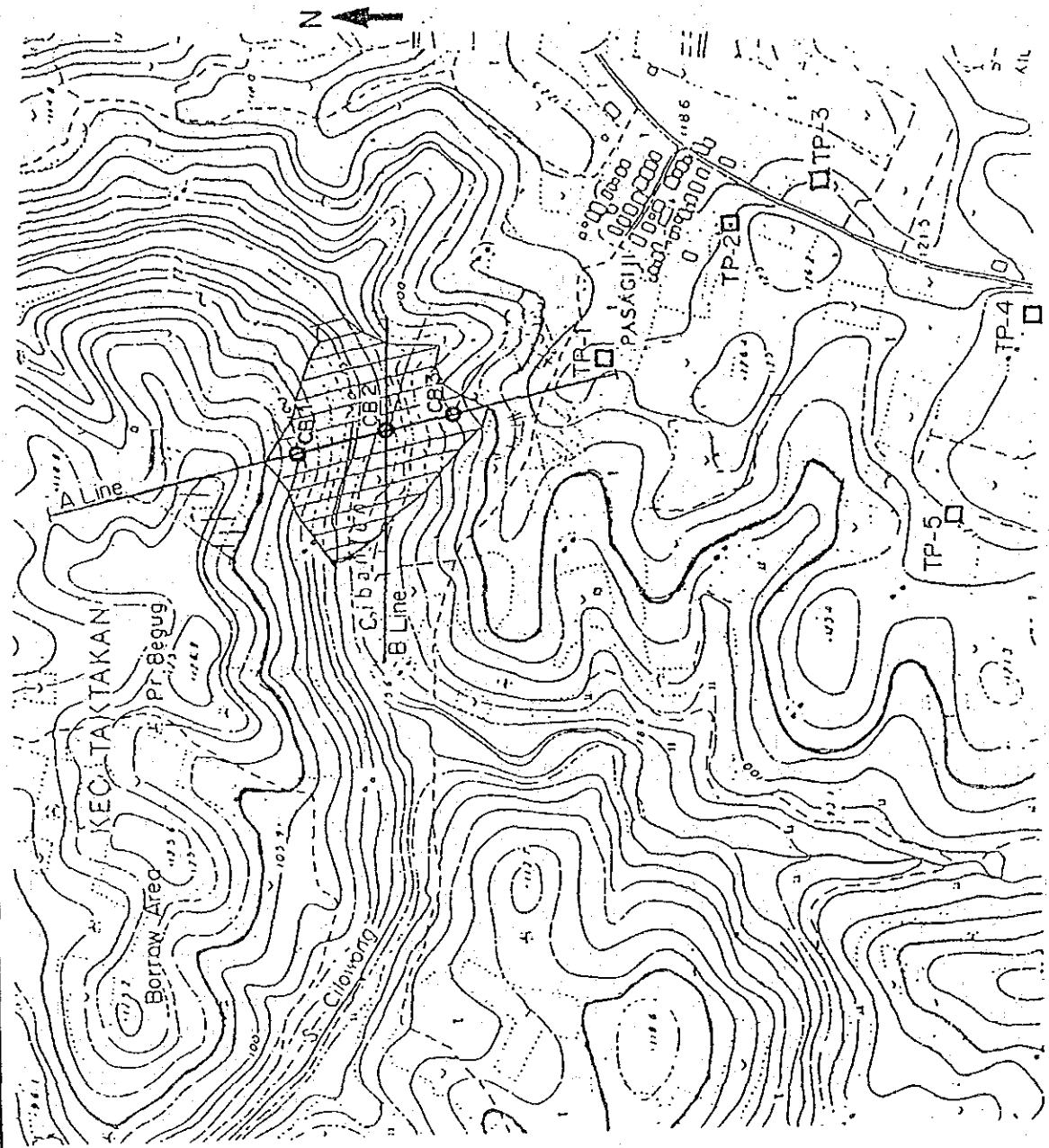
DATA BOOK IV.
CONSTRUCTION MATERIAL

IV.1 Location Map for Test Pits

LEGEND :

- Tes pit
- Boring hole
- Seismic line

Scale 1:5000



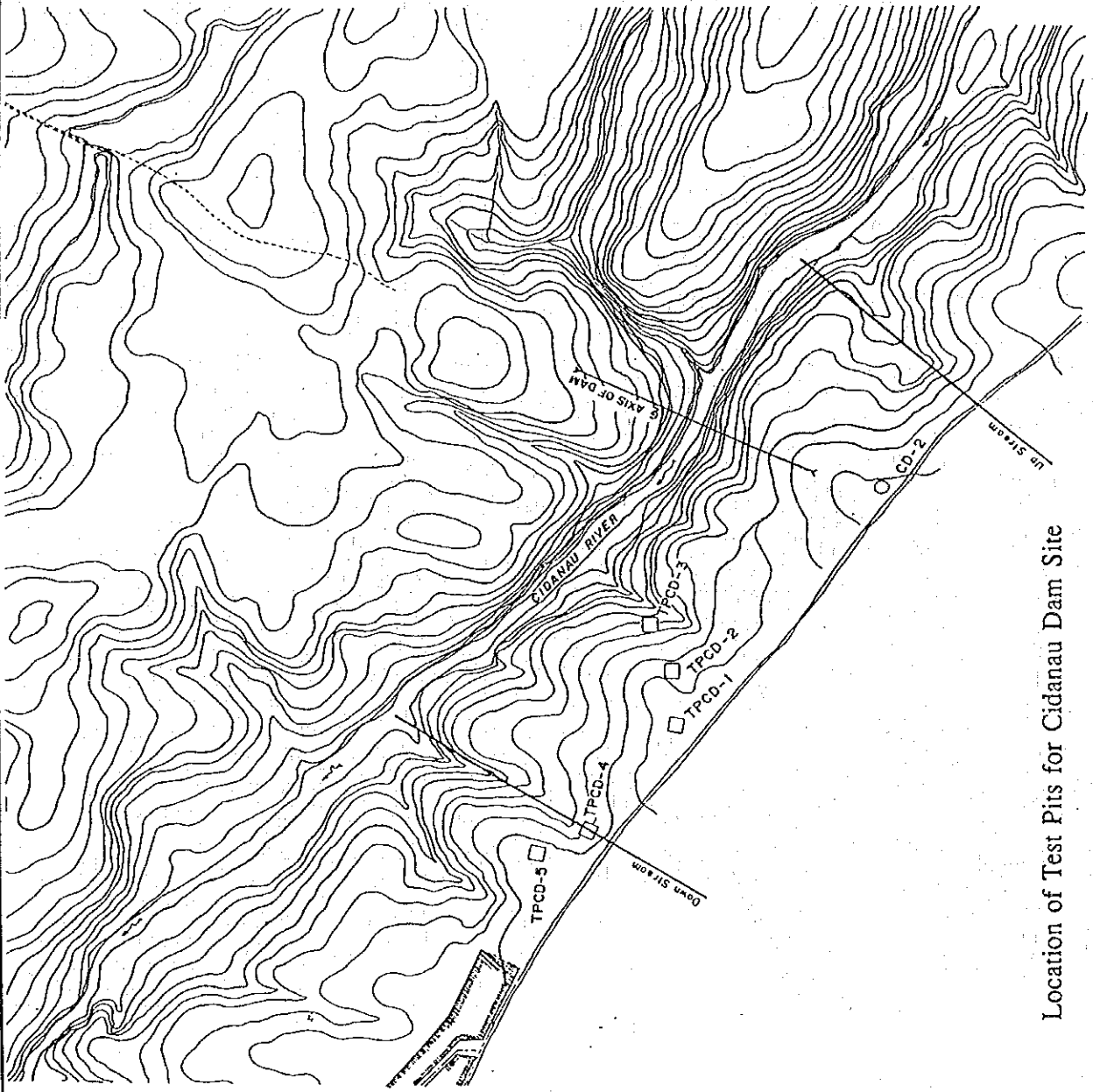
Location of Test Pits for Cibanten Dam Site




MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 FEASIBILITY STUDY ON CIDANAU-CIBANTEN
 WATER RESOURCES DEVELOPMENT PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

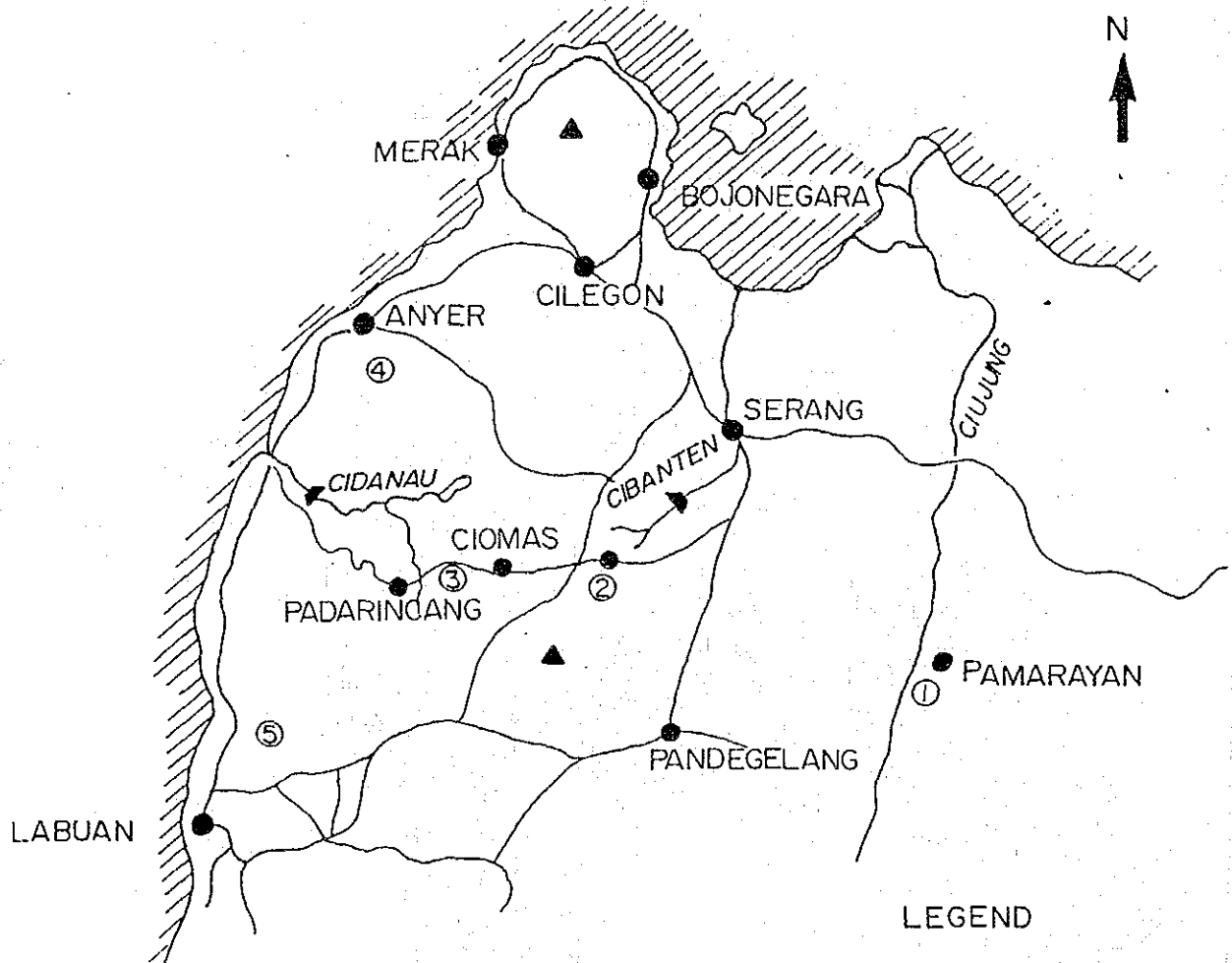
- LEGEND**
- BORING HOLE
 - TEST PIT
 - CROSS SECTION LINE



Location of Test Pits for Cidanau Dam Site

 MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
FEASIBILITY STUDY ON CIDANAU-CIBANTEN
WATER RESOURCES DEVELOPMENT PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND
① - ⑤ Test Pits

Location of Test Pits for Filter Material

IV.2 Summary of Laboratory Tests for Cibanten and Cidanau Borrow Sites

Table TEST RESULTS OF SAMPLES ON CIDANAU AREA

Sample No.	CD-1		CD-2		CD-3		CD-4		CD-5	
	Sampling depth (GL- m)		Sampling depth (GL- m)		Sampling depth (GL- m)		Sampling depth (GL- m)		Sampling depth (GL- m)	
Specific gravity	2.702	2.697	2.698	2.677	2.703	2.691	2.715	2.713	2.728	2.622
Gravel (%)	0	0	0	0	0	0	0	0	0	0
Sand (%)	3	2	2	2	2	2	2	2	2	2
Silt (%)	32	17	29	13	28	29	24	26	33	35
Clay (%)	65	81	69	85	70	69	74	72	65	63
Max. size (mm)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Liquid limit (LL) (%)	83.14	87.94	83.20	90.96	95.54	94.80	95.94	92.83	88.01	81.41
Plastic limit (PL) (%)	45.83	48.35	50.50	49.58	47.77	48.92	55.67	57.97	45.48	47.27
Plasticity index (PI)	37.31	39.59	32.70	41.38	47.77	45.88	40.27	34.86	42.53	34.14
Unified soil classification	MH	MH	MH	MH	MH	MH	MH	MH	MH	MH
Natural moisture content (%)	53.73	55.96	56.63	51.98	53.23	50.60	56.10	56.50	51.89	51.50
Optimum moisture content (OMC) (%)	43.0	43.6	45.8	46.7	45.2	45.9	46.7	46.6	47.2	44.0
Maximum dry density (DDmax) (t/m ³)	1.165	1.161	1.160	1.156	1.180	1.164	1.154	1.154	1.161	1.179
Triaxial shear (UU condition)										
Cohesion (kgf/cm ²)								0.75	0.19	
Internal friction angle (degrees)								11.8	15.3	

CLAY	0.005	S	I	L	T	0.075	FINE SAND	0.425	COARSE SAND	2	FINE GRAVEL	4.75	MEDIUM GRAVEL	19	COARSE GRAVEL	75	COBBLE	300	BOULDERS
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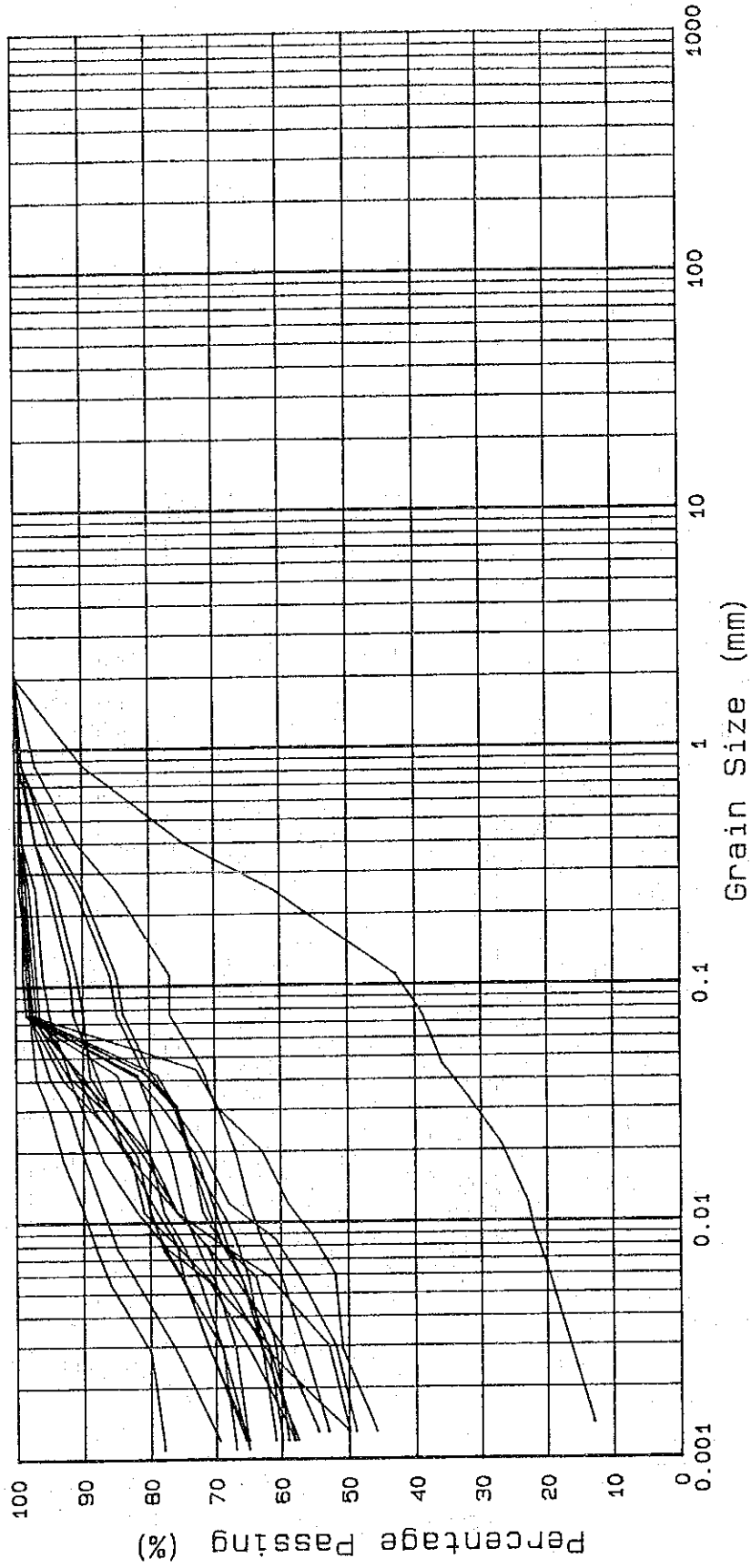


Fig. Grading Curves of All Samples

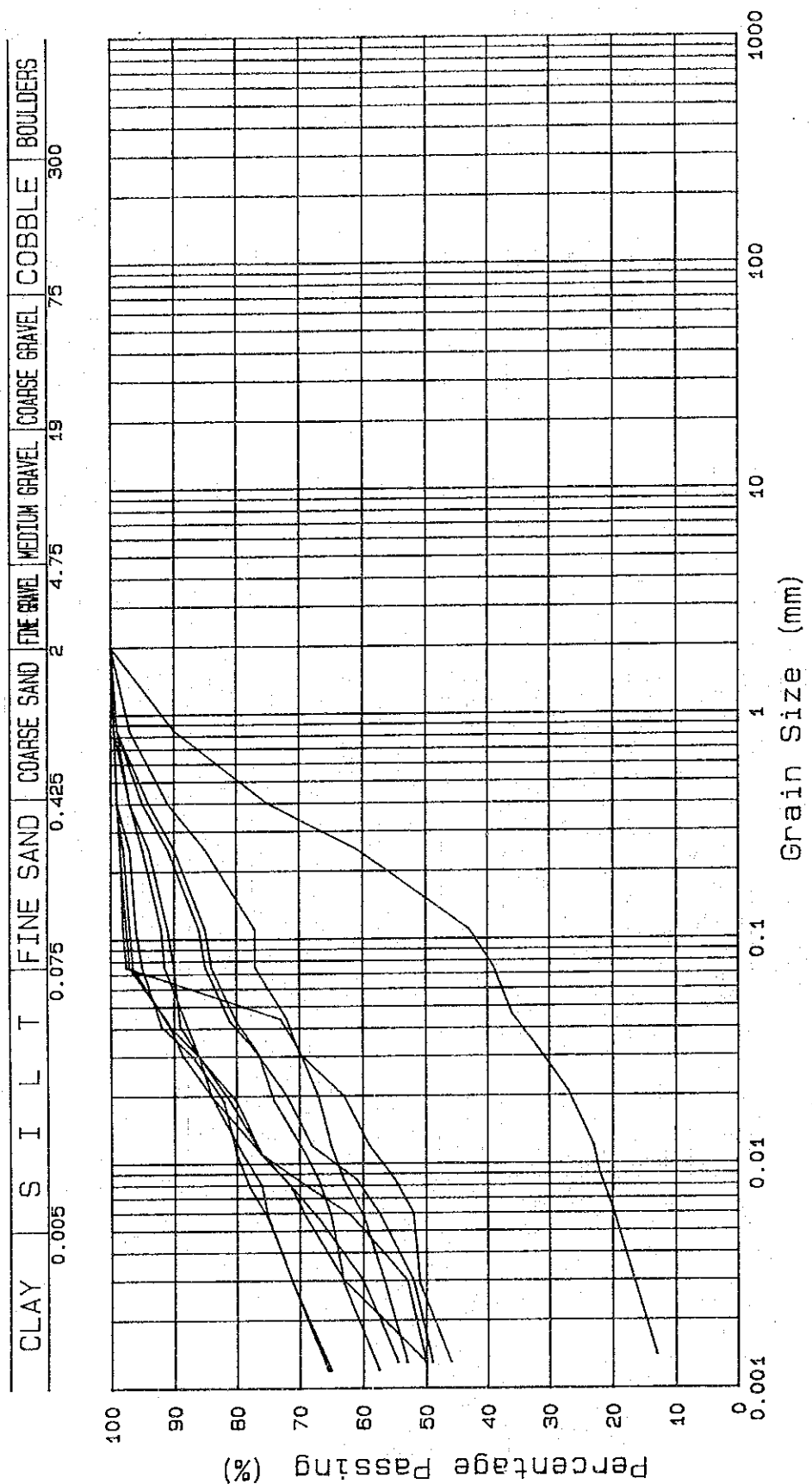


Fig. Grading Curves of Samples from Cibanten Area

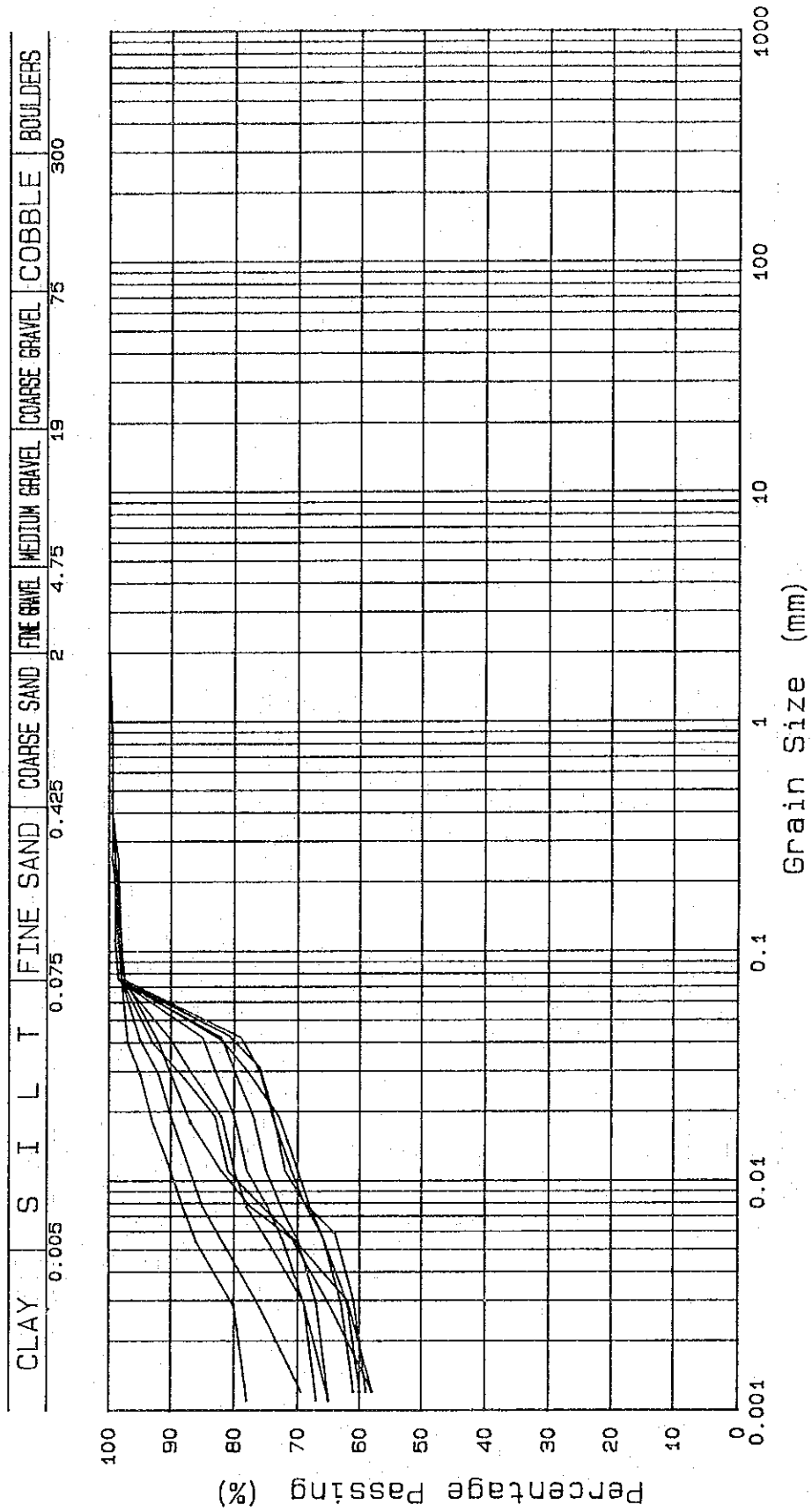


Fig. Grading Curves of Samples from Cidanau Area

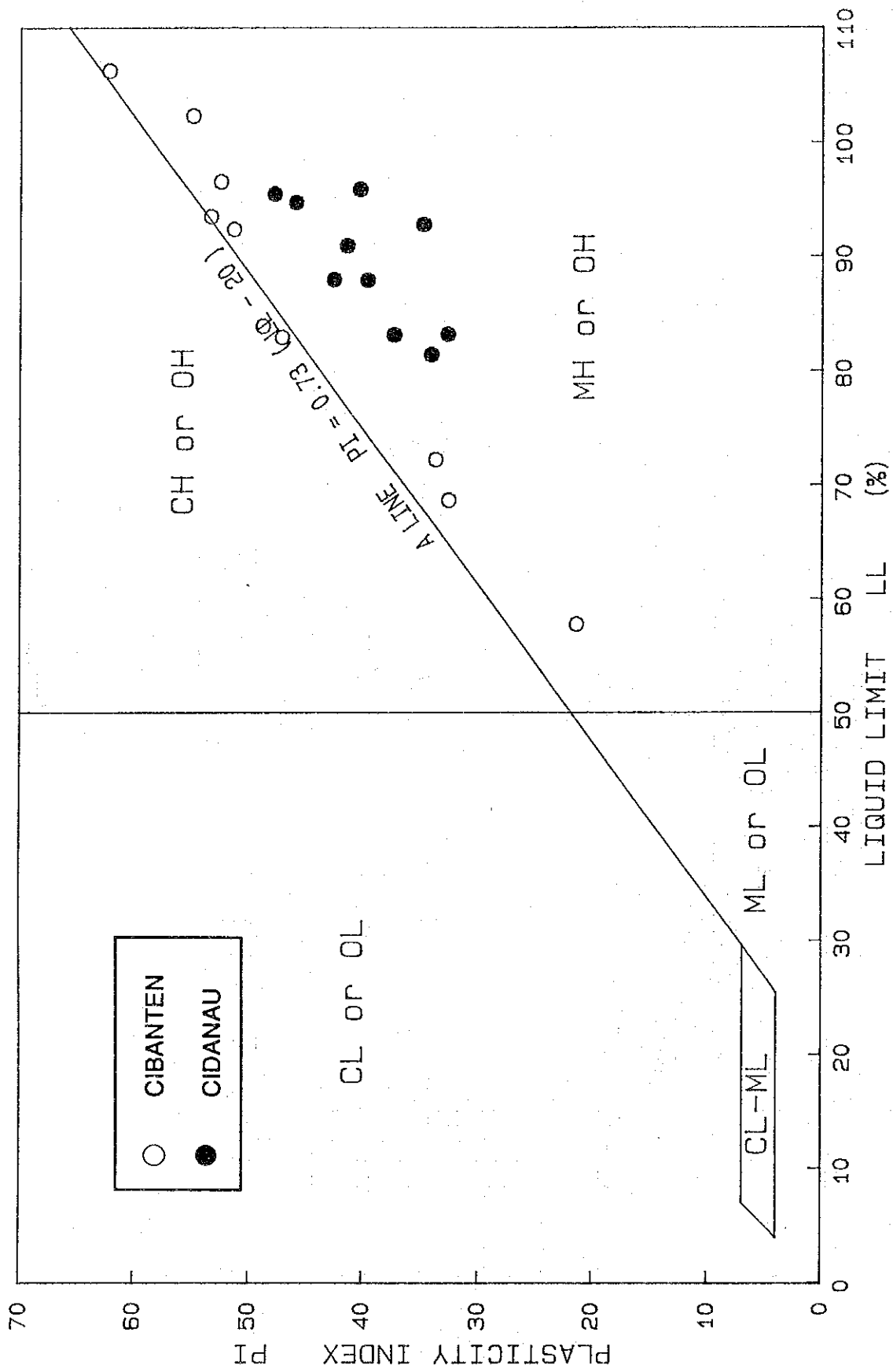


Fig. Plasticity Chart of All Samples

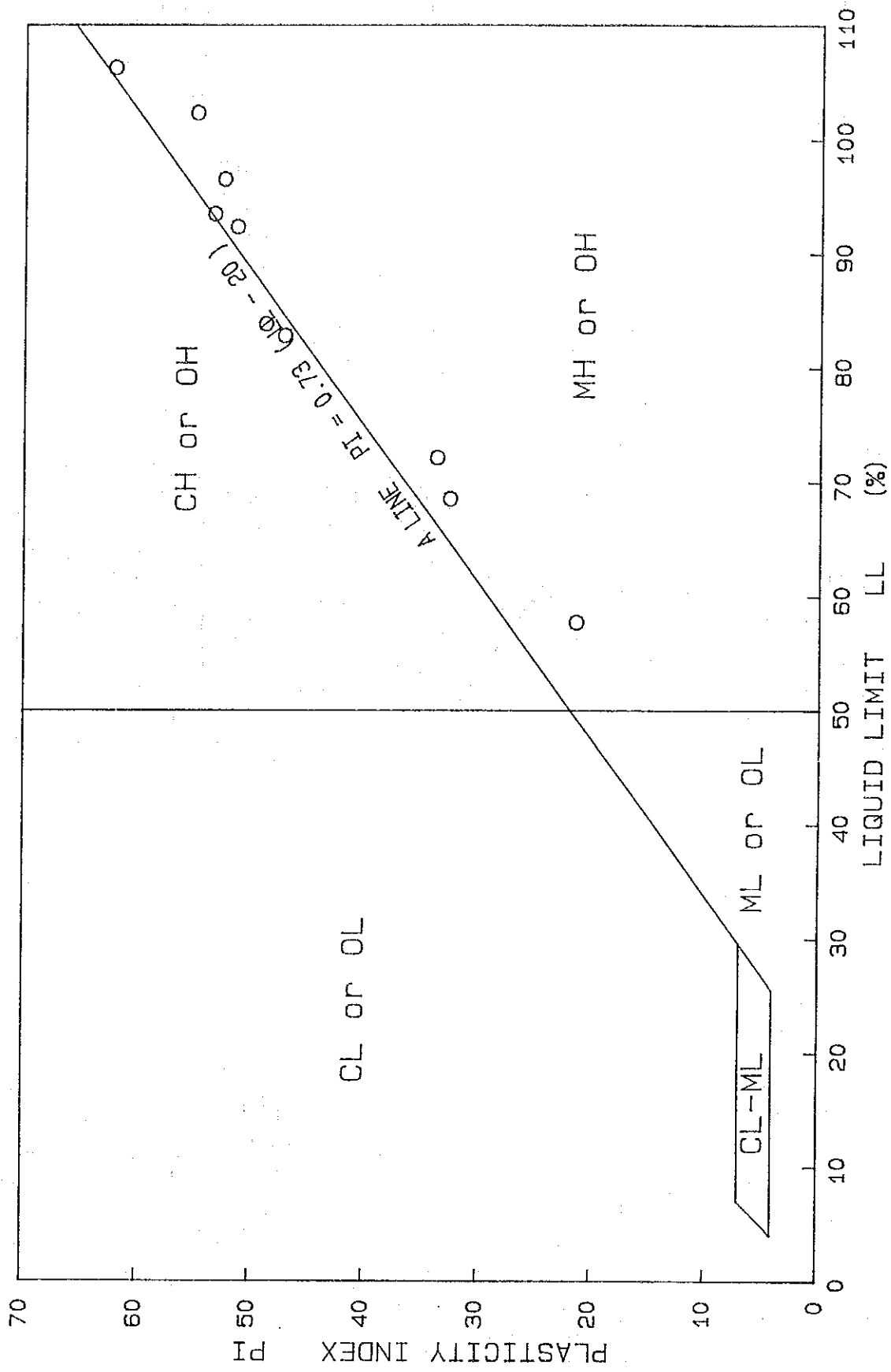


Fig. Plasticity Chart of Samples from Cibanten Area

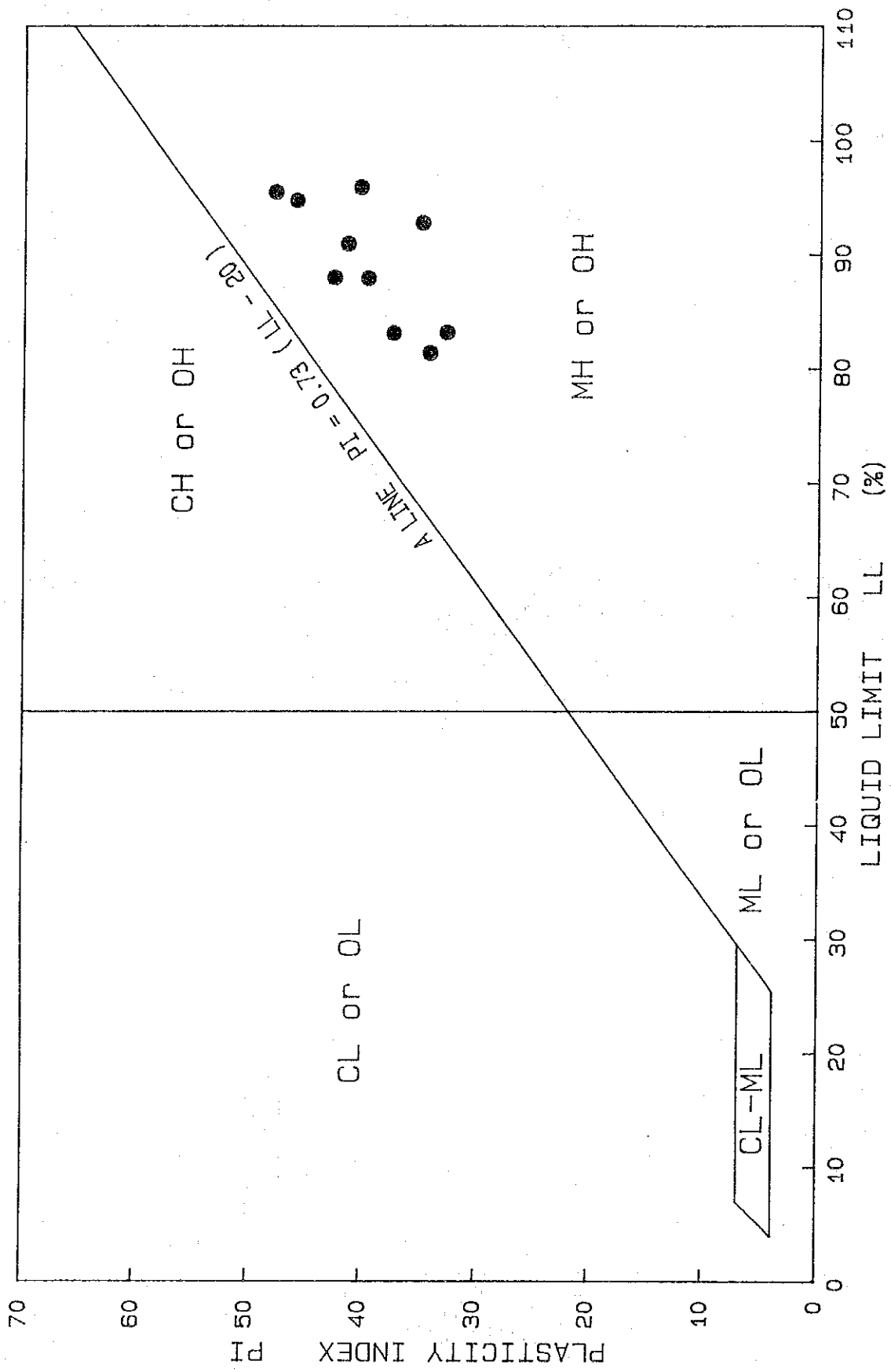
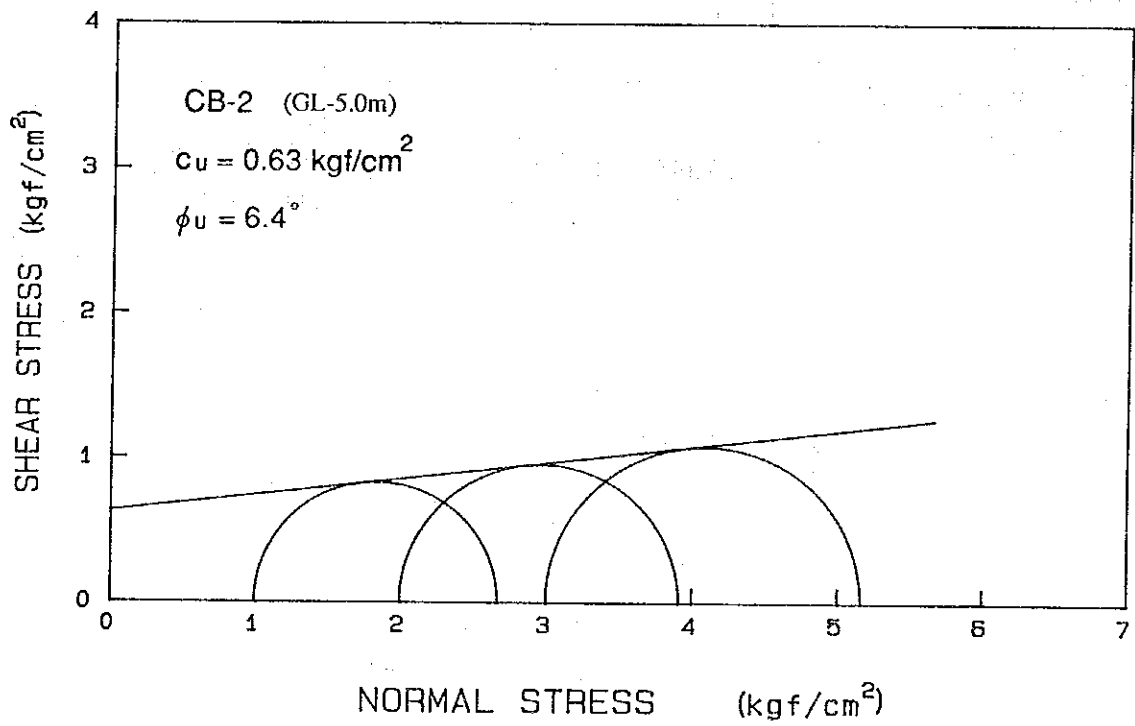


Fig. Plasticity Chart of Samples from Cidanau Area



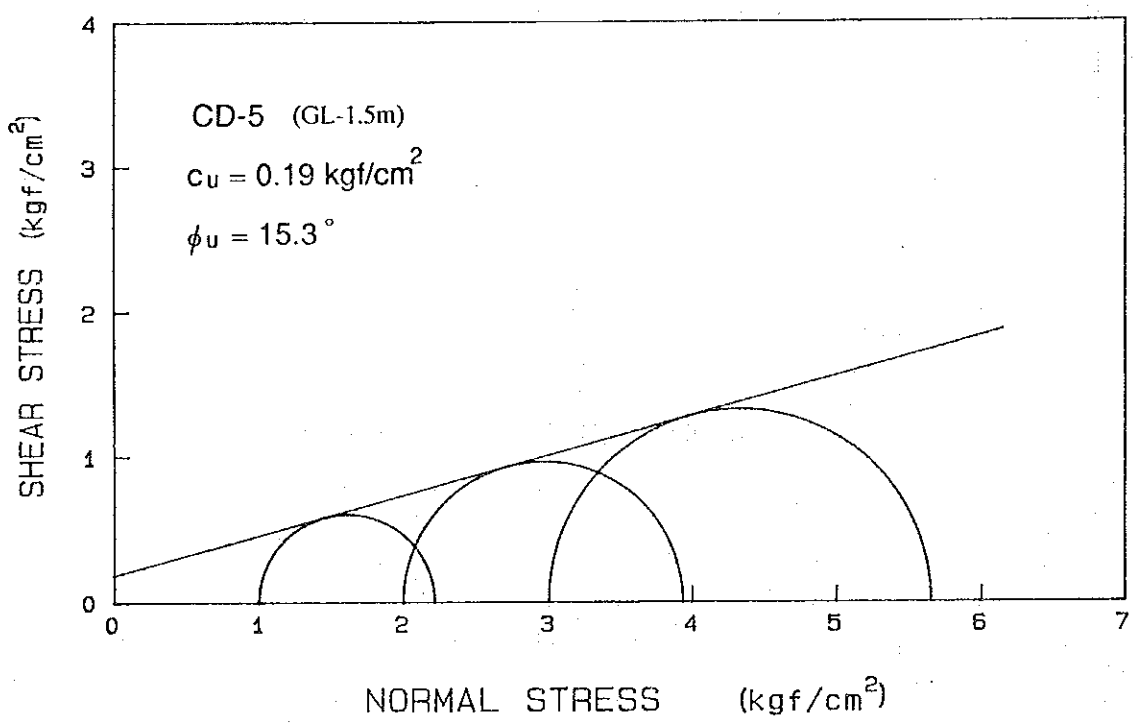
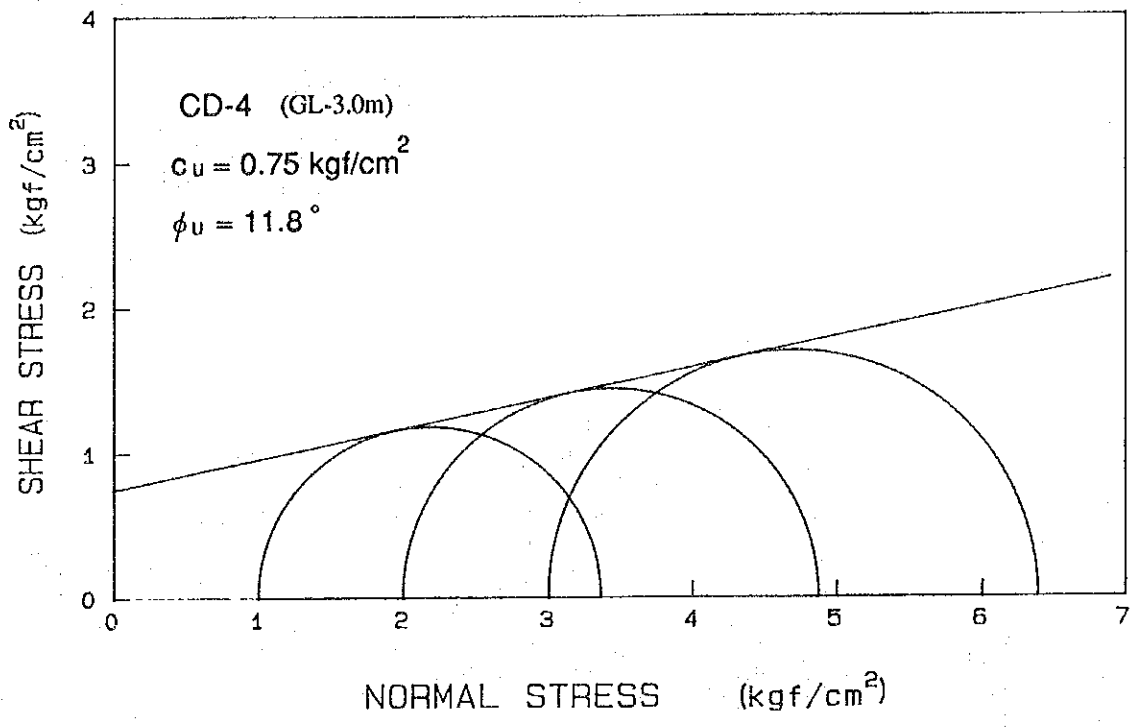


Table Test Results of Sand/gravel Material

Test Items		Padarincang				
		Riverbed		Right Bank	Anyer	Labuan
		GL.	GL.-1.0m			
Specific gravity (coarse aggregate)	OD	2.43	2.34		2.50	2.42
	SSD	2.54	2.33		2.58	2.53
	Apparent	2.73	2.59		2.72	2.73
Absorption (%)		4.5	5.2		3.3	4.7
Specific gravity (fine aggregate)			2.85	2.80		
Gradation (%)	gravel	100	87	34	100	100
	sand	0	13	31	0	0
	silt	0	0	14	0	0
	clay	0	0	21	0	0
Abrasion loss (%)	class A		28.1			
	class B		40.1			
	class C		40.4			
	class E		24.1			

OD : Oven dry basis
SSD : Saturated surface dry basis

CLAY	0.005	S	0.075	I	0.075	L	0.425	T	0.425	FINE SAND	0.425	COARSE SAND	2	FINE GRAVEL	2	MEDIUM GRAVEL	4.75	19	COARSE GRAVEL	19	75	COBBLE	75	300	BOULDERS	300
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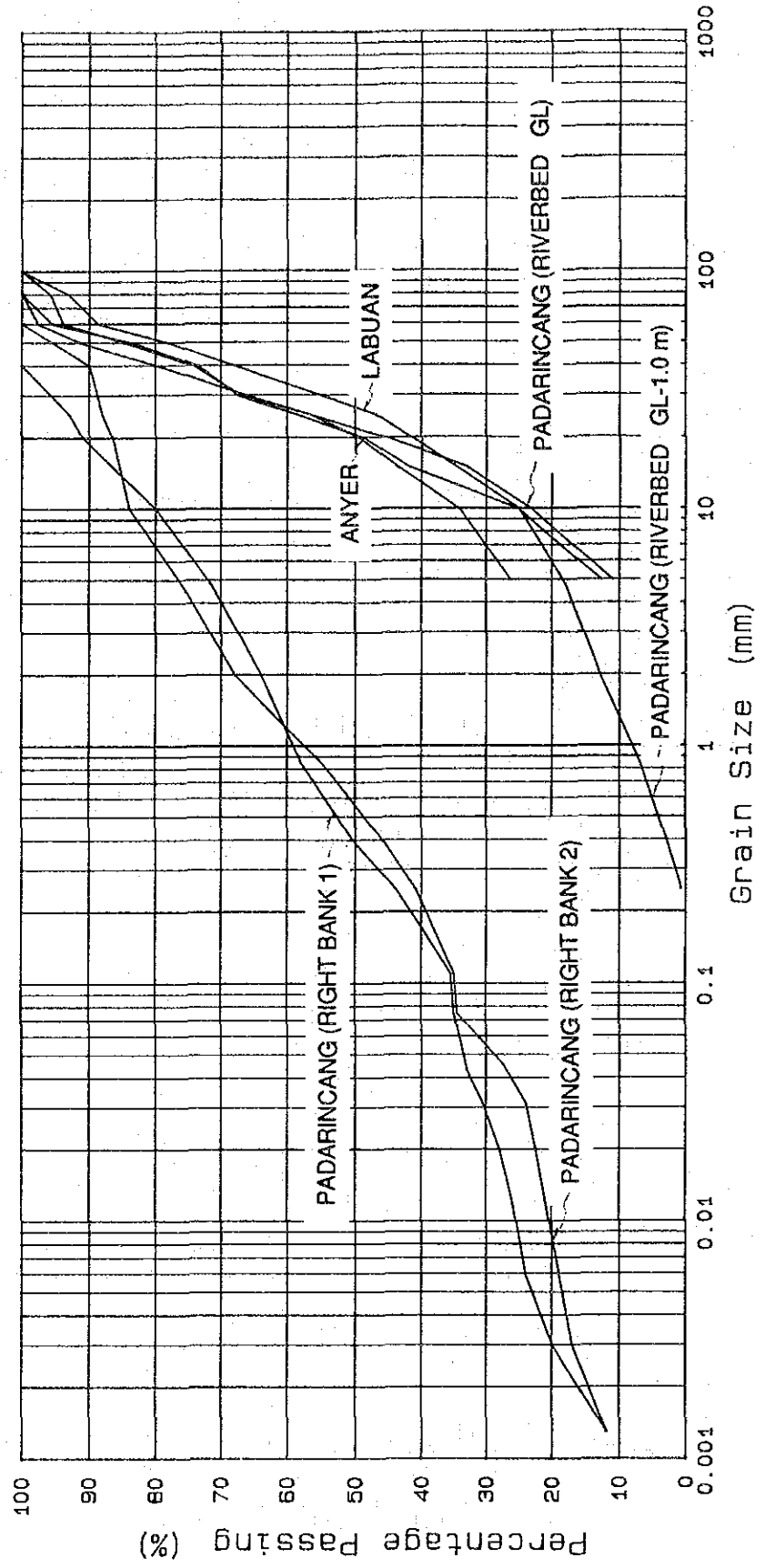


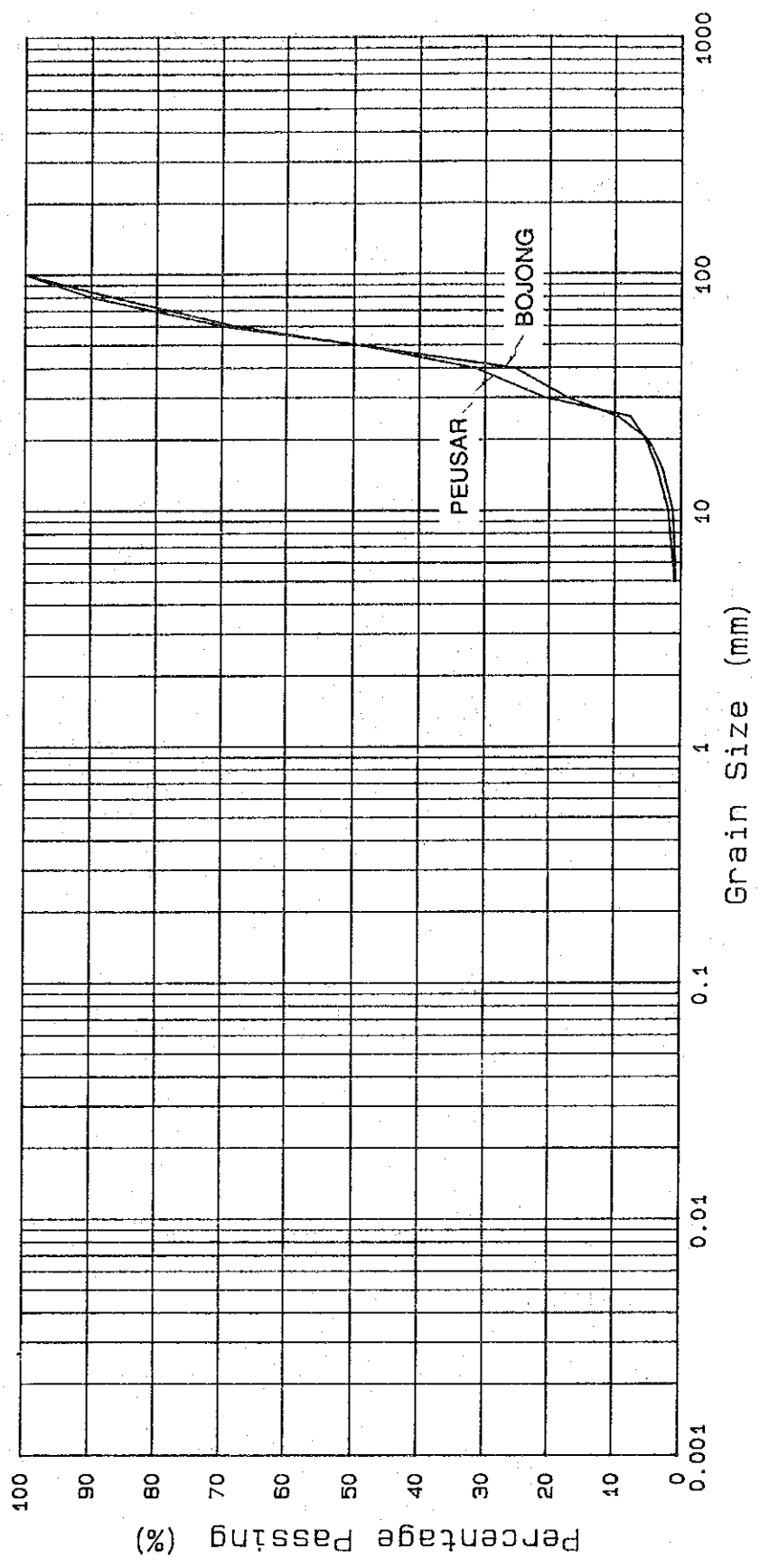
Table Test Results of Rock Material

Test Items		Bojong	Peusar
Specific gravity	OD	2.21	2.63
	SSD	2.35	2.69
	Apparent	2.57	2.81
Absorption (%)		6.4	2.5
Gradation (%)	gravel	100	100
	sand	0	0
	silt	0	0
	clay	0	0
Abrasion loss (%)	class A	57.7	21.7
	class B	49.7	23.2
	class C	47.9	36.5
	class E	42.9	16.2

OD : Oven dry basis

SSD : Saturated surface dry basis

CLAY	S	I	L	T	FINE SAND	COARSE SAND	FINE GRAVEL	MEDIUM GRAVEL	COARSE GRAVEL	COBBLE	BOULDERS
	0.005				0.075	0.425	2	4.75	19	75	300



IV.3 Core Material Tests for Krenceng Borrow Sites

SPECIFIC GRAVITY AND ABSORPTION TEST
CORE BORE

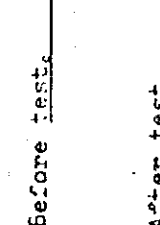

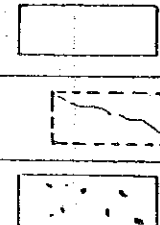
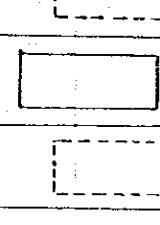
Testing date :

Location :	Cidanau Cibanten			
Sample no :	-			
Depth (M)	17.50 - 17.80 M			
(B)				
(C+S) gr	734.0	751.5		
(C) gr	175.0	190.0		
(S) gr	559.0	561.5		
(C)				
(C+S) gr	971.0	969.0		
(C) gr	604.5	604.5		
(S) gr	366.5	365.0		
(A)				
(C+S) gr	640.5	654.0		
(C) gr	175.0	190.0		
(S) gr	465.5	464.0		
Specific Grav.	2.904	2.858		
Average :	2.881			
Absorption(%)	20.19	21.01		
Average :	20.60 %			

Remark : Specific Gravity: $\frac{B}{B - C}$

TESTING DATE : Januari 13, 1992

COMPRESSIVE STRENGTH CORE L E

Core bore / Depth. (M)	Cidanau - Cibanten	
	17.50	17.80 m
Weight of sample (gr)	625.50	625.00
Diameter (cm)	5.96	5.94
	5.96	5.90
	5.965	5.93
	5.97	5.96
	5.97	5.95
Average :	5.95	5.97
	5.963	5.942
	12.45	12.49
Height (cm)	12.54	12.53
	12.495	12.51
Area (cm ²)	27.2967	27.7303
	348.9440	346.9065
Volume (cm ³)	1.7965	1.8016-
	2.904	2.858
Specific Gravity	2.881	
Absorption (%)	20.19	21.01
	Average : 20.60	
Comp. strength (ton)	1.800	1.800
	65.94	64.91
Stress (kg/cm ²)	Average : 65.43	
	Sketch	
Before test.		
After test.		

SPECIFIC GRAVITY AND ABSORPTION TEST
CORE BORE

Testing date : Januari 18, 1992

Cidanau Cibanten

Location : KR 4

BT 2

Depth : 19.25 - 19.65 M

19.15 - 19.40 M

(S S D)

(C+S) gr	487.0	588.0	589.0	497.5	648.5
(C) gr	76.0	81.0	93.0	90.0	87.0
(S) gr	411.0	509.0	496.0	407.5	561.5

(in water)

(C+S) gr	881.0	935.0	929.0	902.5	975.0
(C) gr	706.0	706.0	706.0	706.0	706.0
(S) gr	175.0	229.0	223.0	196.5	269.0

(oven dry)

(C+S) gr	417.5	507.0	507.5	486.0	564.5
(C) gr	76.0	81.0	93.0	90.0	87.0
(S) gr	341.5	426.0	414.5	346.0	477.5

Specific gra.

1.741

1.824

1.817

1.930

1.920

Average :

1.794

1.925

Absorption(%)

20.35

19.48

19.66

17.77

17.59

Average :

19.83 %

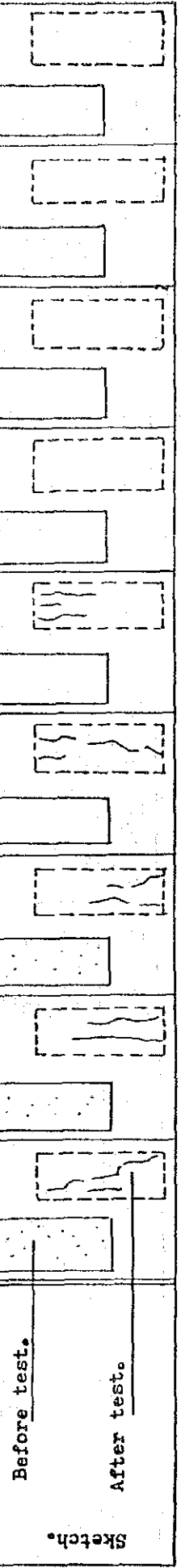
17.68 %

Remark : Specific gravity : $\frac{B}{C}$; Absorption : $\frac{B-A}{A} \times 100 \%$

Testing date : Januari 17, 1992

COMPRESSIVE STRENGTH CORE BORE

Core bore / depth(M)	KR 4 : 19.25 - 19.65 M		DT 2 : 19.15 - 19.40 M	
Weight of sample (gr)	521.0	549.0	583.0	540.0
Diameter (cm)	6.13	5.94	5.85	5.94
	5.88	5.85	5.85	5.94
	5.83	5.83	5.95	5.98
	5.98	5.83	5.95	5.98
	5.83	5.81	5.96	5.95
Average : (cm)	5.81	5.86	5.98	5.97
	5.91	5.85	5.92	5.96
	12.61	12.91	11.99	11.05
	12.60	12.94	12.03	11.07
	12.605	12.925	12.01	11.06
Area : (cm ²)	27.4325	26.8783	27.5254	27.8986
	345.7867	347.4020	330.5800	308.5585
Volume: (cm ³)	1.5068	1.5803	1.7636	1.7501
	1.741	1.824	1.930	1.920
Specific gravity	Average : 1.925			
	1.794			
Absorption (%)	20.35	19.48	17.77	17.59
	Average : 19.83 %			
Comp. Strength (ton)	1.100	1.500	1.500	1.600
	Average : 1.925			
Stress (kg / cm ²)	40.098	55.807	54.495	57.351
	Average : 51.6821 kg/cm ²			
Sketch:	Before test.		After test.	



WATER CONTENT of SOIL

		$\frac{WW(WI, \text{wet soil} + \text{Container}) - DW(WI, \text{dry soil} + \text{Container})}{DW(WI, \text{dry soil} + \text{Container}) - TW(WI, \text{Container})} \times 100 = \frac{Ww(WI \text{ of water})}{Ws(WI \text{ of dry soil})} \times 100 = WC\%$																															
Date	Sample No	Average WC	Calculation																														
29/12/1991	TKK - 1 (-3.00)m	18.40	<table border="0"> <tr> <td colspan="2">No J-06</td> <td colspan="2">No L-63</td> <td colspan="2">No J-61</td> </tr> <tr> <td>WW 64.5147</td> <td>DW 60.1131</td> <td>WW 61.1713</td> <td>DW 69.2680</td> <td>WW 69.2680</td> <td>DW 62.8202</td> </tr> <tr> <td>DW 60.1131</td> <td>TW 36.4344</td> <td>DW 69.2680</td> <td>TW 37.9435</td> <td>DW 62.8202</td> <td>TW 38.2182</td> </tr> <tr> <td>Ww 4.4016</td> <td>Ws 23.6787</td> <td>Ww 3.6319</td> <td>Ws 19.5880</td> <td>Ww 4.4478</td> <td>Ws 24.6020</td> </tr> <tr> <td colspan="2">WC = 18.59</td> <td colspan="2">WC = 18.54</td> <td colspan="2">WC = 18.07</td> </tr> </table>	No J-06		No L-63		No J-61		WW 64.5147	DW 60.1131	WW 61.1713	DW 69.2680	WW 69.2680	DW 62.8202	DW 60.1131	TW 36.4344	DW 69.2680	TW 37.9435	DW 62.8202	TW 38.2182	Ww 4.4016	Ws 23.6787	Ww 3.6319	Ws 19.5880	Ww 4.4478	Ws 24.6020	WC = 18.59		WC = 18.54		WC = 18.07	
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WW 64.5147	DW 60.1131	WW 61.1713	DW 69.2680	WW 69.2680	DW 62.8202																												
DW 60.1131	TW 36.4344	DW 69.2680	TW 37.9435	DW 62.8202	TW 38.2182																												
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WC = 18.59		WC = 18.54		WC = 18.07																													
29/12/1991	TKK - 2 (-1.50)m	10.98	<table border="0"> <tr> <td colspan="2">No J-18</td> <td colspan="2">No J-91</td> <td colspan="2">No L-64</td> </tr> <tr> <td>WW 75.1726</td> <td>DW 71.5771</td> <td>WW 72.6745</td> <td>DW 69.2065</td> <td>WW 74.3461</td> <td>DW 70.6998</td> </tr> <tr> <td>DW 71.5771</td> <td>TW 39.5314</td> <td>DW 69.2065</td> <td>TW 36.9551</td> <td>DW 70.6998</td> <td>TW 37.4916</td> </tr> <tr> <td>Ww 3.5955</td> <td>Ws 32.0457</td> <td>Ww 3.4680</td> <td>Ws 32.2514</td> <td>Ww 3.6463</td> <td>Ws 33.2082</td> </tr> <tr> <td colspan="2">WC = 11.21</td> <td colspan="2">WC = 10.75</td> <td colspan="2">WC = 10.98</td> </tr> </table>	No J-18		No J-91		No L-64		WW 75.1726	DW 71.5771	WW 72.6745	DW 69.2065	WW 74.3461	DW 70.6998	DW 71.5771	TW 39.5314	DW 69.2065	TW 36.9551	DW 70.6998	TW 37.4916	Ww 3.5955	Ws 32.0457	Ww 3.4680	Ws 32.2514	Ww 3.6463	Ws 33.2082	WC = 11.21		WC = 10.75		WC = 10.98	
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29/12/1991	TKK - 3 (-3.00)m	19.64	<table border="0"> <tr> <td colspan="2">No J-46</td> <td colspan="2">No J-03</td> <td colspan="2">No L-35</td> </tr> <tr> <td>WW 70.7987</td> <td>DW 64.9304</td> <td>WW 63.5309</td> <td>DW 59.3901</td> <td>WW 78.8255</td> <td>DW 72.9923</td> </tr> <tr> <td>DW 64.9304</td> <td>TW 35.6418</td> <td>DW 59.3901</td> <td>TW 37.8726</td> <td>DW 72.9923</td> <td>TW 42.2916</td> </tr> <tr> <td>Ww 5.8683</td> <td>Ws 29.2886</td> <td>Ww 4.1408</td> <td>Ws 21.5175</td> <td>Ww 5.8332</td> <td>Ws 43.7007</td> </tr> <tr> <td colspan="2">WC = 20.04</td> <td colspan="2">WC = 19.24</td> <td colspan="2">WC = 19.54</td> </tr> </table>	No J-46		No J-03		No L-35		WW 70.7987	DW 64.9304	WW 63.5309	DW 59.3901	WW 78.8255	DW 72.9923	DW 64.9304	TW 35.6418	DW 59.3901	TW 37.8726	DW 72.9923	TW 42.2916	Ww 5.8683	Ws 29.2886	Ww 4.1408	Ws 21.5175	Ww 5.8332	Ws 43.7007	WC = 20.04		WC = 19.24		WC = 19.54	
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WC = 20.04		WC = 19.24		WC = 19.54																													
29/12/1991	TKK - 2 (-3.00)m	25.01	<table border="0"> <tr> <td colspan="2">No J-93</td> <td colspan="2">No J-25</td> <td colspan="2">No J-63</td> </tr> <tr> <td>WW 72.7181</td> <td>DW 66.0191</td> <td>WW 72.0458</td> <td>DW 65.0283</td> <td>WW 68.0556</td> <td>DW 61.2307</td> </tr> <tr> <td>DW 66.0191</td> <td>TW 38.9695</td> <td>DW 65.0288</td> <td>TW 36.9722</td> <td>DW 61.2307</td> <td>TW 34.2836</td> </tr> <tr> <td>Ww 6.6990</td> <td>Ws 27.0496</td> <td>Ww 7.0170</td> <td>Ws 28.0566</td> <td>Ww 6.8169</td> <td>Ws 26.9551</td> </tr> <tr> <td colspan="2">WC = 24.73</td> <td colspan="2">WC = 25.01</td> <td colspan="2">WC = 25.28</td> </tr> </table>	No J-93		No J-25		No J-63		WW 72.7181	DW 66.0191	WW 72.0458	DW 65.0283	WW 68.0556	DW 61.2307	DW 66.0191	TW 38.9695	DW 65.0288	TW 36.9722	DW 61.2307	TW 34.2836	Ww 6.6990	Ws 27.0496	Ww 7.0170	Ws 28.0566	Ww 6.8169	Ws 26.9551	WC = 24.73		WC = 25.01		WC = 25.28	
No J-93		No J-25		No J-63																													
WW 72.7181	DW 66.0191	WW 72.0458	DW 65.0283	WW 68.0556	DW 61.2307																												
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Ww 6.6990	Ws 27.0496	Ww 7.0170	Ws 28.0566	Ww 6.8169	Ws 26.9551																												
WC = 24.73		WC = 25.01		WC = 25.28																													
30/12/1991	TKK-1:2 (95:5)%	17.00	<table border="0"> <tr> <td colspan="2">No L-35</td> <td colspan="2">No J-03</td> <td colspan="2">No J-46</td> </tr> <tr> <td>WW 72.5441</td> <td>DW 68.3153</td> <td>WW 70.0661</td> <td>DW 65.3841</td> <td>WW 68.7595</td> <td>DW 63.9646</td> </tr> <tr> <td>DW 68.3153</td> <td>TW 42.2916</td> <td>DW 65.3841</td> <td>TW 37.8726</td> <td>DW 63.9646</td> <td>TW 35.6418</td> </tr> <tr> <td>Ww 4.2288</td> <td>Ws 25.0237</td> <td>Ww 4.7225</td> <td>Ws 27.5115</td> <td>Ww 4.7949</td> <td>Ws 28.3228</td> </tr> <tr> <td colspan="2">WC = 16.90</td> <td colspan="2">WC = 17.17</td> <td colspan="2">WC = 16.93</td> </tr> </table>	No L-35		No J-03		No J-46		WW 72.5441	DW 68.3153	WW 70.0661	DW 65.3841	WW 68.7595	DW 63.9646	DW 68.3153	TW 42.2916	DW 65.3841	TW 37.8726	DW 63.9646	TW 35.6418	Ww 4.2288	Ws 25.0237	Ww 4.7225	Ws 27.5115	Ww 4.7949	Ws 28.3228	WC = 16.90		WC = 17.17		WC = 16.93	
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WC = 16.90		WC = 17.17		WC = 16.93																													
30/12/1991	TKK-3:2 (90:10)%	14.36	<table border="0"> <tr> <td colspan="2">No J-39</td> <td colspan="2">No J-76</td> <td colspan="2">No J-26</td> </tr> <tr> <td>WW 68.8487</td> <td>DW 65.1493</td> <td>WW 64.7863</td> <td>DW 61.3530</td> <td>WW 67.6117</td> <td>DW 63.7392</td> </tr> <tr> <td>DW 65.1493</td> <td>TW 39.5476</td> <td>DW 61.3530</td> <td>TW 37.1270</td> <td>DW 63.7392</td> <td>TW 36.9722</td> </tr> <tr> <td>Ww 3.6994</td> <td>Ws 25.6017</td> <td>Ww 3.4333</td> <td>Ws 24.2260</td> <td>Ww 3.8725</td> <td>Ws 26.7670</td> </tr> <tr> <td colspan="2">WC = 14.45</td> <td colspan="2">WC = 14.17</td> <td colspan="2">WC = 14.47</td> </tr> </table>	No J-39		No J-76		No J-26		WW 68.8487	DW 65.1493	WW 64.7863	DW 61.3530	WW 67.6117	DW 63.7392	DW 65.1493	TW 39.5476	DW 61.3530	TW 37.1270	DW 63.7392	TW 36.9722	Ww 3.6994	Ws 25.6017	Ww 3.4333	Ws 24.2260	Ww 3.8725	Ws 26.7670	WC = 14.45		WC = 14.17		WC = 14.47	
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WC = _____		WC = _____		WC = _____																													

SPECIFIC GRAVITY TEST

Location : Cidanau-Cibanten III		Date : Jan. 7 '92		
Sample No : TPK -1 (-3.00) m		Tested by : Suminto Bd . Cs.		
Determination No				
No of Pycnometer		34	6 p	69
Weight of Pycnometer Wf in gr		36.7815	43.8528	43.2862
Weight (Pycnometer + Water) W'a in gr		143.9629	147.8055	146.5901
Temperature of Calibration (Corresponding with W'a) T' °C		25°	25°	25°
Weight (Pycnometer + Soil + Water) Wb in gr		152.7127	154.9979	153.8492
Temperature of Calibration (Corresponding to Wb) T °C		27°	27°	27°
Weight of Dry Soil Wo	No of Container	34	6 p	69
	Weight (Container + Dry Soil in gr	49.8344	56.0030	55.5221
	Weight Container in gr	36.7815	43.8528	43.2862
	Wo in gr	13.0529	12.1502	12.2359
Unit Weight of Water (γ_w) r a t i o (T °C / T' °C)		0.99947	0.99947	0.99947
Weight (Pycnometer + Water) calculation for T °C Wa in gr		143.9058	147.7501	146.5350
Wo + (Wa - Wb)				
Deflocculant correction				
Wo + (Wa - Wb) corrected		5.2460	4.9023	4.9217
Specific Gra vity at 15°C $G(T^{\circ}C) \frac{W_o}{W_o + (W_a - W_b)}$		2.4882	2.4784	2.4861
Coefficient for Temperature correction K		0.9974	0.9974	0.9974
Specific Gra vity at 15°C $G(15^{\circ}C) = K \times G(T^{\circ}C)$		2.4817	2.4719	2.4796
Average Specific Gravity (15°)			2.478	
Remarks :				

SPECIFIC GRAVITY TEST

Location : Cidanau - Cibanten III		Date : Jan 7 ' 92		
Sample No : TPK - 2 (- 1.50) m		Tested by : Suminto Bd. Cs.		
Determination No				
No of Pycnometer		63	37	16 p
Weight of Pycnometer Wf in gr		45.3558	41.3794	39.7043
Weight (Pycnometer + Water) W'a in gr		146.9911	146.5957	145.0962
Temperature of Calibration (Corresponding with W'a) T' °C		25°	25 °	25 °
Weight (Pycnometer + Soil + Water) Wb in gr		154.3102	153.3322	151.0875
Temperature of Calibration (Corresponding to Wb) T °C		27°	27°	27°
Weight of Dry Soil Wo	No of Container	63	37	16 p
	Weight (Container + Dry Soil in gr	59.3202	52.8485	51.1125
	Weight Container in gr	45.3558	41.3794	39.7043
	Wo in gr	11.9644	11.0545	11.4082
Unit Weight of Water (γ_w) ratio (T °C / T' °C)		0.99947	0.99947	0.99947
Weight (Pycnometer + Water) calculation for T °C Wa in gr		146.9369	146.5396	145.0400
Wo + (Wa - Wb)				
Deflocculant correction				
Wo + (Wa - Wb) corrected		4.5911	4.2619	5.3607
Specific Gravity at 15°C $G(T^{\circ}C) \frac{W_o}{W_o + (W_a - W_b)}$		2.6060	2.5938	2.1281
Coefficient for Temperature correction K		0.9974	0.9974	0.9974
Specific Gravity at 15°C $G(15^{\circ}C) = K \times G(T^{\circ}C)$		2.5992	2.5870	2.1225
Average Specific Gravity (15°)		2.593		
Remarks :				

SPECIFIC GRAVITY TEST

Location : Cidanau - Cibanten III		Date : Jan 7 '92		
Sample No : TPK - 2 (- 3.00) m		Tested by : Suminto Bd.Ca.		
Determination No				
No of Pycnometer		1	6	29
Weight of Pycnometer Wf in gr		40.2040	40.2226	43.2973
Weight (Pycnometer + Water) W'a in gr		145.3053	145.7308	146.7923
Temperature of Calibration (Corresponding with W'a) T' °C		25 °	25 °	25 °
Weight (Pycnometer + Soil + Water) Wb in gr		151.0746	150.4929	153.8249
Temperature of Calibration (Corresponding to Wb) T °C		27 °	27 °	27 °
Weight of Dry Soil Wo	No of Container	1	6	29
	Weight (Container + Dry Soil in gr	49.7791	48.2017	54.9722
	Weight Container in gr	40.2040	40.2226	43.2973
	Wo in gr	9.5751	7.9791	11.6749
Unit Weight of Water (γ_w) ratio (T °C / T' °C)		0.99947	0.99947	0.99947
Weight (Pycnometer + Water) calculation for T °C Wa in gr		145.2493	145.6746	146.7371
Wo + (Wa - Wb)				
Deflocculant correction				
Wo + (Wa - Wb) corrected		3.7498	3.1608	4.5871
Specific Gravity at 15 °C $G(T^{\circ}C) \frac{W_o}{W_o + (W_a - W_b)}$		2.5535	2.5244	2.5452
Coefficient for Temperature correction K		0.9974	0.9974	0.9974
Specific Gravity at 15 °C $G(15^{\circ}C) = K \times G(T^{\circ}C)$		2.5468	2.5178	2.5385
Average Specific Gravity (15 °)		2.534		
Remarks :				

SPECIFIC GRAVITY TEST

Location : Cidanau - Cibanten III		Date : Jan 6 ' 92		
Sample No : TPK - 3 (- 3.00) m		Tested by : Juminto Bd. Cs.		
Determination No				
No of Pycnometer		68	20	10
Weight of Pycnometer Wf in gr		38.9845	36.1697	44.1388
Weight (Pycnometer + Water) W'a in gr		144.5188	142.4602	147.4579
Temperature of Calibration (Corresponding with W'a) T' °C		25 °	25 °	25 °
Weight (Pycnometer + Soil + Water) Wb in gr		149.2503	148.6229	153.3887
Temperature of Calibration (Corresponding to Wb) T °C		27 °	27 °	27 °
Weight of Dry Soil Wo	No of Container	68	20	10
	Weight (Container + Dry Soil) in gr	47.0107	46.6085	54.1771
	Weight Container in gr	38.9845	36.1697	44.1388
Wo in gr		8.0262	10.4388	10.0383
Unit Weight of Water (γ_w) ratio (T °C / T' °C)		0.99947	0.99947	0.99947
Weight (Pycnometer + Water) calculation for T °C Wa in gr		144.4626	142.4036	147.4028
Wo + (Wa - Wb)				
Deflocculant correction				
Wo + (Wa - Wb) corrected		3.2385	4.2195	4.0524
Specific Gravity at 15 °C $G(T^{\circ}C) = \frac{W_o}{W_o + (W_a - W_b)}$		2.4784	2.4739	2.4771
Coefficient for Temperature correction K		0.9974	0.9974	0.9974
Specific Gravity at 15 °C $G(15^{\circ}C) = K \times G(T^{\circ}C)$		2.4719	2.4675	2.4706
Average Specific Gravity (15 °)		2.470		
Remarks :				

SPECIFIC GRAVITY TEST

Location : Cidanau - Cibanten III		Date : Jan 6 '92		
Sample No : TPK - 1; PK - 2 (95 : 5)		Tested by : Suminto Bd . Cs.		
Determination No.				
No of Pycnometer		16 p	6	69
Weight of Pycnometer Wf in gr		39.7043	36.7815	43.2862
Weight (Pycnometer + Water) W'a in gr		145.0963	143.9629	146.5901
Temperature of Calibration (Corresponding with W'a) T' °C		25°	25°	25°
Weight (Pycnometer + Soil + Water) Wb in gr		151.1759	149.8653	152.8038
Temperature of Calibration (Corresponding to Wb) T °C		28°	28°	28°
Weight of Dry Soil Wo	No of Container	16 p	6	69
	Weight (Container + Dry Soil in gr	49.9873	46.7862	53.8215
	Weight Container in gr	39.7043	36.7815	43.2862
	Wo in gr	10.2830	10.0047	10.5353
Unit Weight of Water (γ_w) r a t i o (T °C / T' °C)		0.99918	0.99918	0.99918
Weight (Pycnometer + Water) calculation for T °C Wa in gr		145.0098	143.8750	146.5053
Wo + (Wa - Wb)				
Deflocculant correction				
Wo + (Wa - Wb) corrected		4.1169	4.0144	4.2369
Specific Gra vity at 15°C $G(T^{\circ}C) \frac{W_o}{W_o + (W_a - W_b)}$		2.4977	2.4922	2.4865
Coefficient for Temperature correction K		0.9971	0.9971	0.9971
Specific Gra vity at 15°C $G(15^{\circ}C) = K \times G(T^{\circ}C)$		2.4904	2.4850	2.4793
Average Specific Gravity (15°)		2.485		
Remarks :				

SPECIFIC GRAVITY TEST

Location : Cidanau - Cibanten III		Date : Jan 6 '92		
Sample No : TPK-3 : TPK-2 (90 : 10)		Tested by : Suminto Bd. Es.		
Determination No				
No of Pycnometer		37	1	34
Weight of Pycnometer Wf in gr		41.3794	40.2040	36.7815
Weight (Pycnometer + Water) W'a in gr		146.5957	145.3053	143.9629
Temperature of Calibration (Corresponding with W'a) T' °C		25°	25°	25°
Weight (Pycnometer + Soil + Water) Wb in gr		152.6752	152.1480	150.4344
Temperature of Calibration (Corresponding to Wb) T °C		28°	28°	28°
Weight of Dry Soil Wo	No of Container	37	1	34
	Weight (Container + Dry Soil in gr	51.6595	51.7423	47.6917
	Weight Container in gr	41.3794	40.2040	36.7815
	Wo in gr	10.2801	11.5383	10.9102
Unit Weight of Water (γ_w) ratio (T °C / T' °C)		0.99918	0.99918	0.99918
Weight (Pycnometer + Water) calculation for T °C Wa in gr		146.5094	145.2191	143.8750
Wo + (Wa - Wb)				
Deflocculant correction				
Wo + (Wa - Wb) corrected		4.1143	4.6094	4.3508
Specific Gravity at 15°C $G(T^{\circ}C) = \frac{W_o}{W_o + (W_a - W_b)}$		2.4986	2.5032	2.5076
Coefficient for Temperature correction K		0.9971	0.9971	0.9971
Specific Gravity at 15°C $G(15^{\circ}C) = K \times G(T^{\circ}C)$		2.4914	2.4960	2.5003
Average Specific Gravity (15°)		2.4960		
Remarks :				

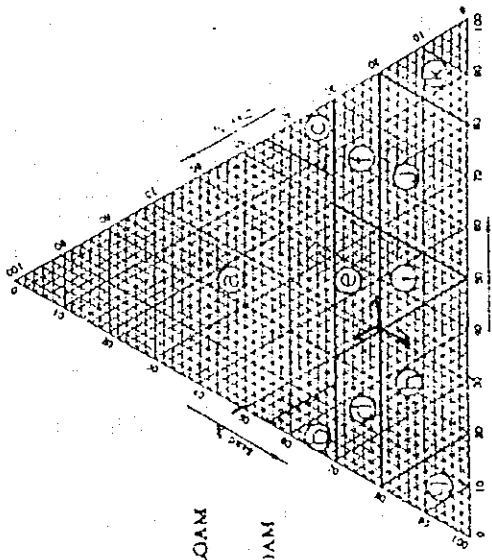
RESULT OF GRAIN SIZE ANALYSIS

LOCATION : CIDANAU / CIBANTEN 3

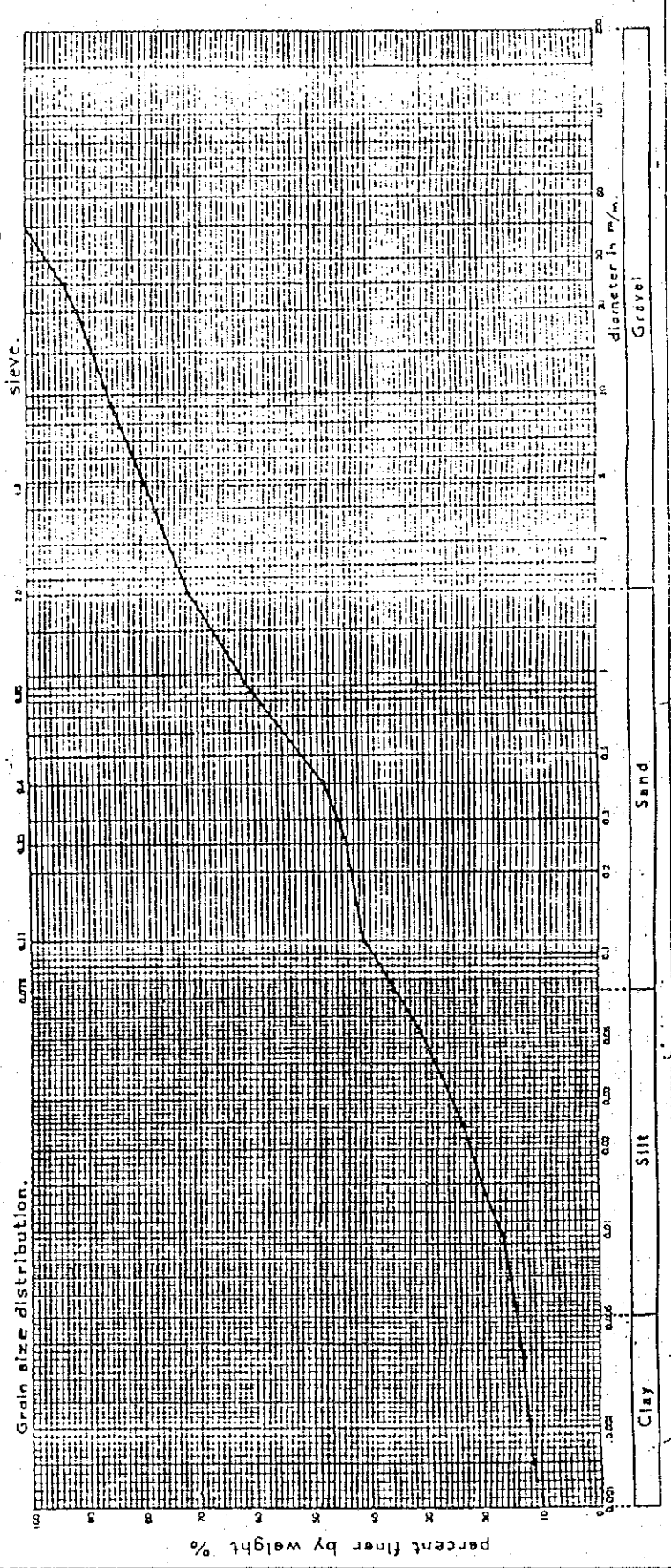
DATE : December 30, 1991

TESTED BY : Sur. nto B Specific Gravity : 2.478

- a CLAY
- b SANDY CLAY
- c SILTY CLAY
- d SANDY CLAY LOAM
- e CLAYEY LOAM
- f SILTY CLAY LOAM
- g SAND
- h SANDY LOAM
- i LOAM
- j SILTY LOAM
- k SILT



Sample No.	Gravel %	Sand %	Silt %	Clay %	Max. size mm	D.60 mm	D.10 mm	Uniformity Coefficient	Classification
TK - 1	29	35	22	14	38.1	0.85	-	-	Loam
(- 3.00)	-	49	31	20	2.00				



RESULT OF GRAIN SIZE ANALYSIS

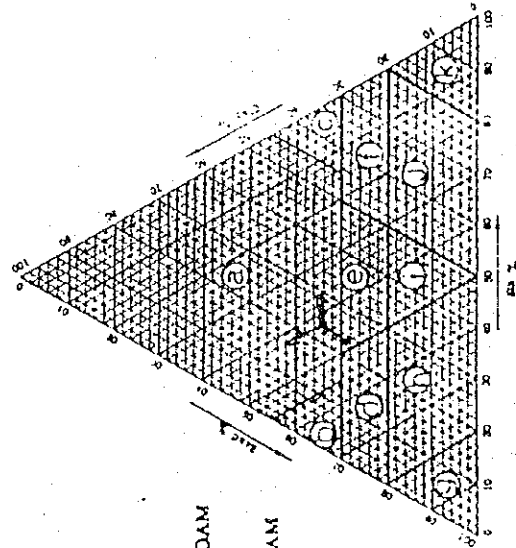
LOCATION : CIDANAU / CIBANTEN 3

DATE : December 30, 1991

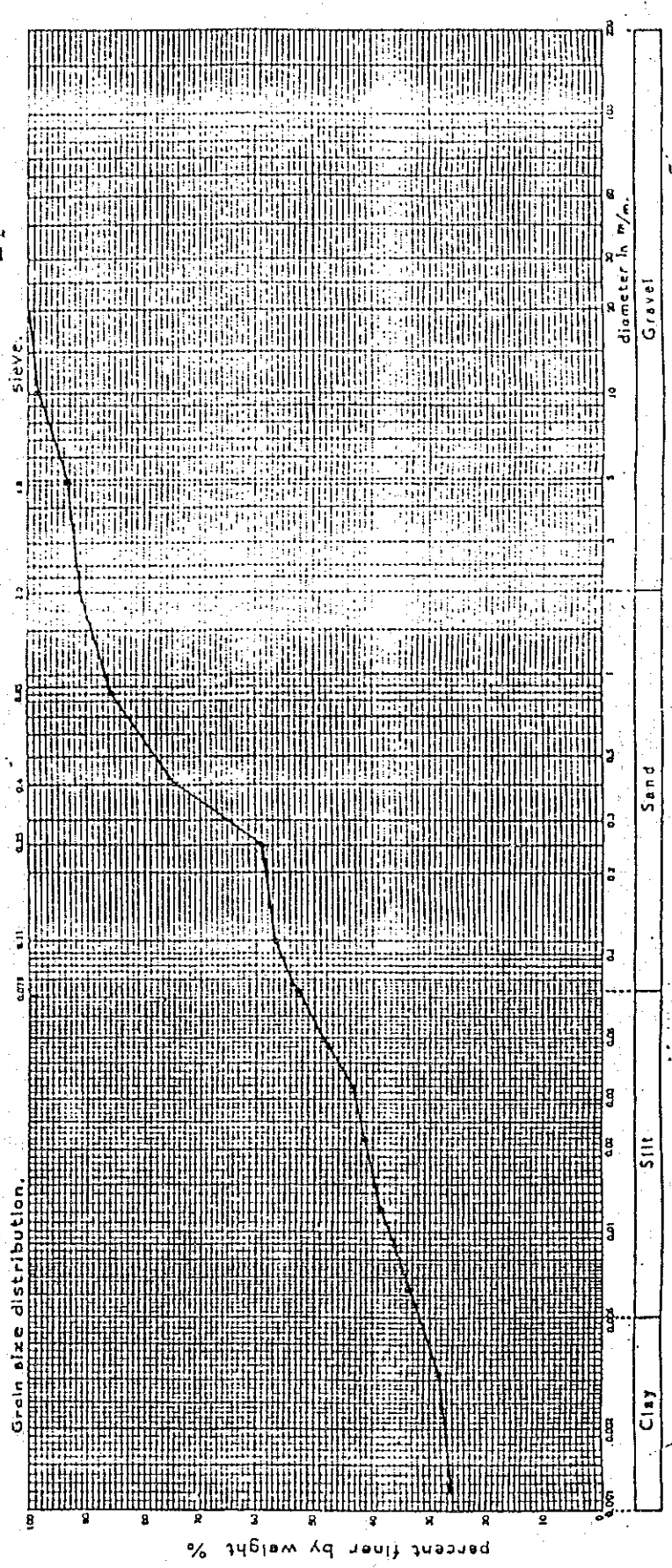
TESTED BY : Suminto B

Specific Gravity : 2.593

- a) CLAY
- b SANDY CLAY
- c SILTY CLAY
- d SANDY CLAY LOAM
- e CLAYEY LOAM
- f SILTY CLAY LOAM
- g SAND
- h SANDY LOAM
- i LOAM
- j SILTY LOAM
- k SILT



Sample No.	Gravel %	Sand %	Silt %	Clay %	Max size m.m.	D.60 m.m.	D.10 m.m.	Uniformity Coefficient	Classification
TEK - 2	8	39	21	32	19.1	0.36	-	-	
(- 1.50)	-	42	23	35	2.0	-	-	-	Clay



RESULT OF GRAIN SIZE ANALYSIS

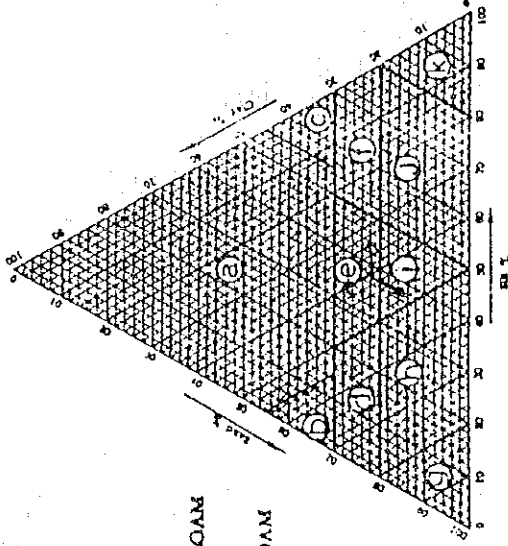
LOCATION : CIDANAU / CIBALUMEN 3.

DATE : December, 26 -1991

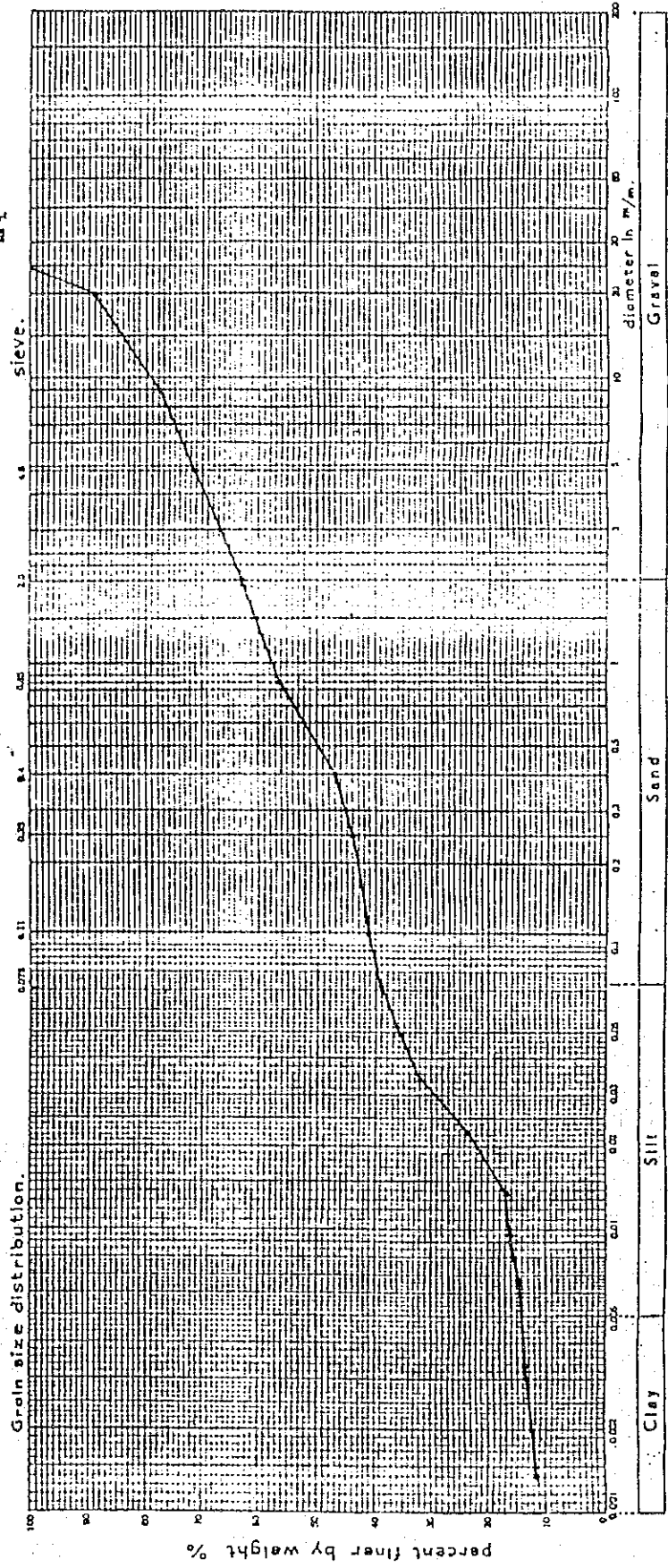
TESTED BY : Suminto.B.

Specific Gravity : 2.534

- a CLAY
- b SANDY CLAY
- c SILTY CLAY
- d SANDY CLAY LOAM
- e CLAYEY LOAM
- f SILTY CLAY LOAM
- g SAND
- h SANDY LOAM
- i LOAM
- j SILTY LOAM
- k SILT

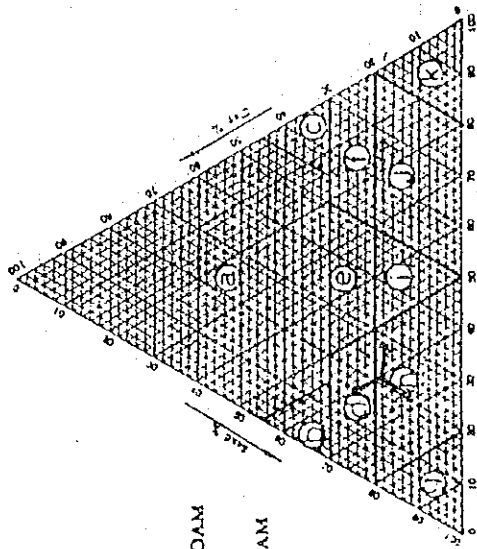


Sample No.	Gravel %	Sand %	Silt %	Clay %	Maxsize m.m.	D.60 m.m.	D.10 m.m.	Uniformity Coefficient	Classification
TK-2	37	25	24	14	25.4	1.5	-		Clayey Loam
(-3.00)m	-	40	38	22	2.00				

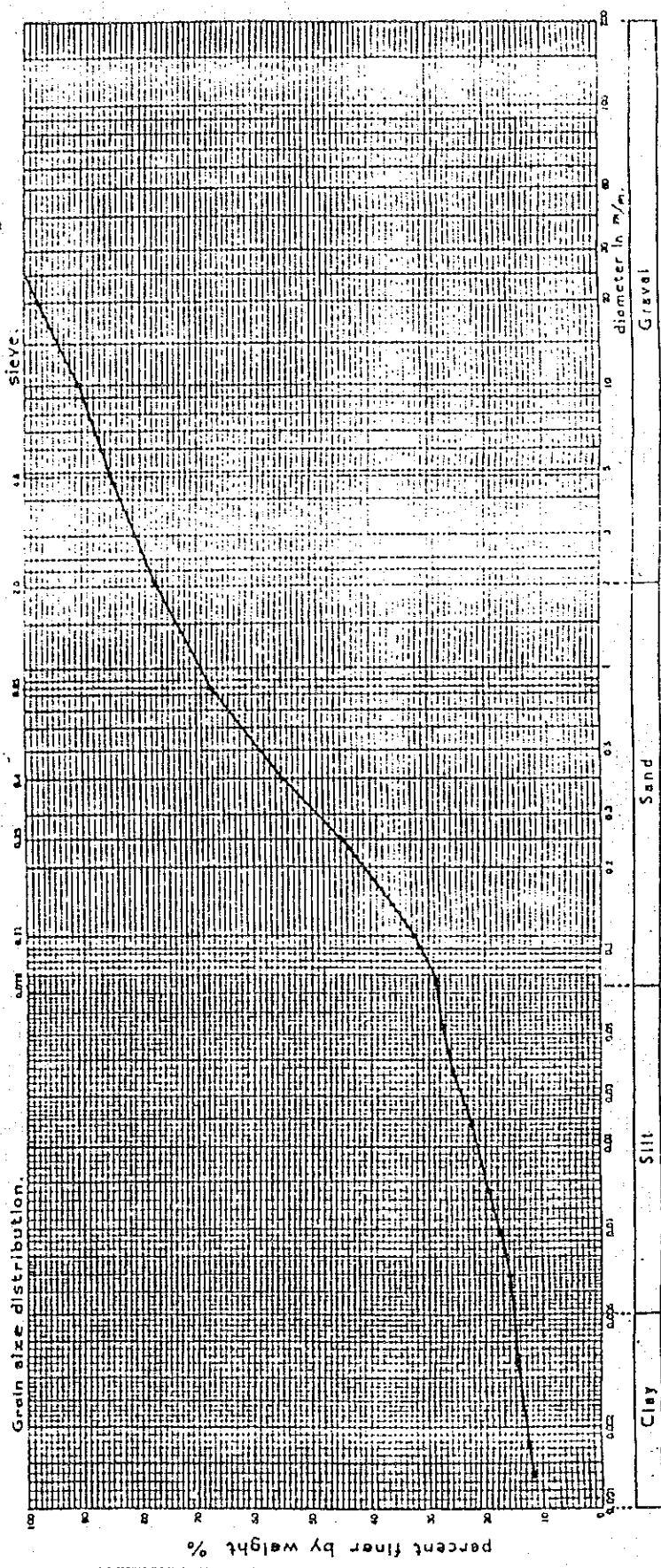


RESULT OF GRAIN SIZE ANALYSIS

LOCATION : CIDANAU / CIBANTEN .3 .
 DATE : December ,26-1991
 TESTED BY : Suminto.B. Specific Gravity : 2.470



Sample No.	Gravel %	Sand %	Silt %	Clay %	Max size mm	D.60 mm	D.10 mm	Uniformity Coefficient	Classification
TK-3 (-3.00)	22	47	16	15	25.4	0.55	-	-	Sandy Loam



RESULT OF GRAIN SIZE ANALYSIS

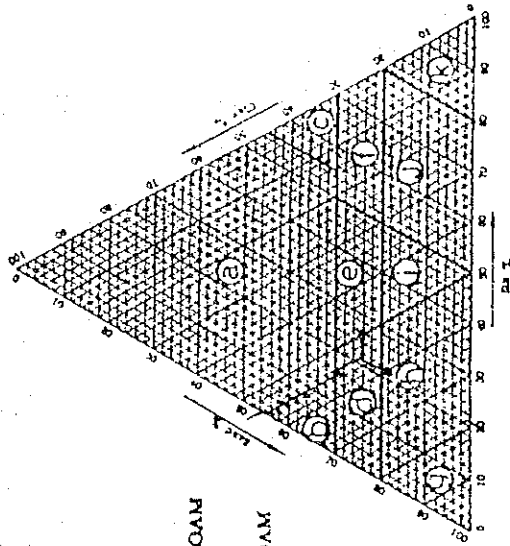
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DATE : December, 24 -1991

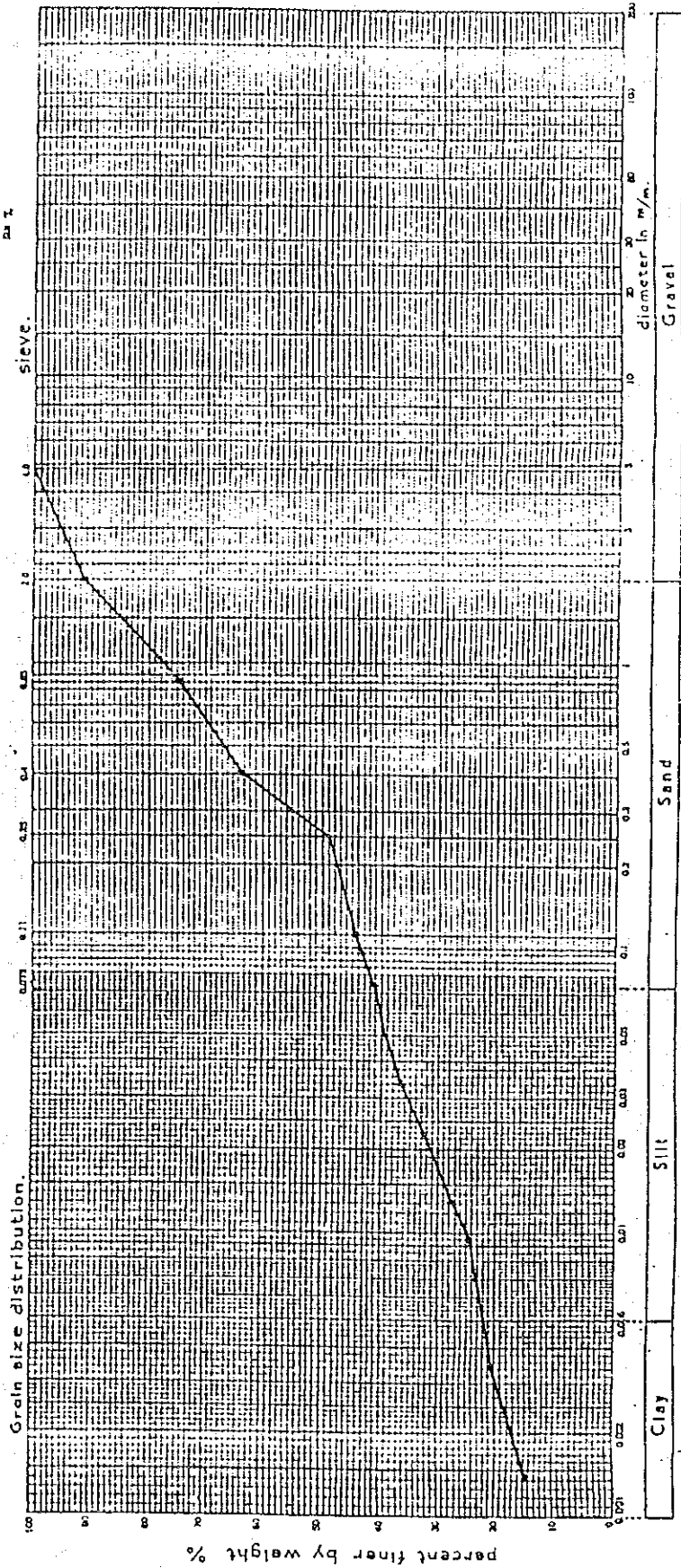
TESTED BY : Suminto.P.

Specific Gravity : 2.485

- a CLAY
- b SANDY CLAY
- c SILTY CLAY
- d SANDY CLAY LOAM**
- e CLAYEY LOAM
- f SILTY CLAY LOAM
- g SAND
- h SANDY LOAM
- i LOAM
- j SILTY LOAM
- k SILT



Sample No.	Gravel %	Sand %	Silt %	Clay %	Max size m.m.	D.60 m.m.	D.10 m.m.	Uniformity Coefficient	Classification
TKR 1:2	8	40	20	22	5.00	0.38	-	-	Sandy Clay Loam
(95:5)	-	54	21	25	2.00	-	-	-	

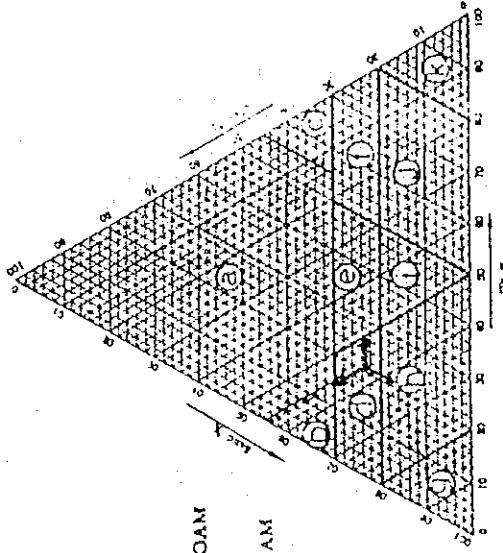


RESULT OF GRAIN SIZE ANALYSIS

LOCATION : CIDANAU / CIBANTEN . 3.

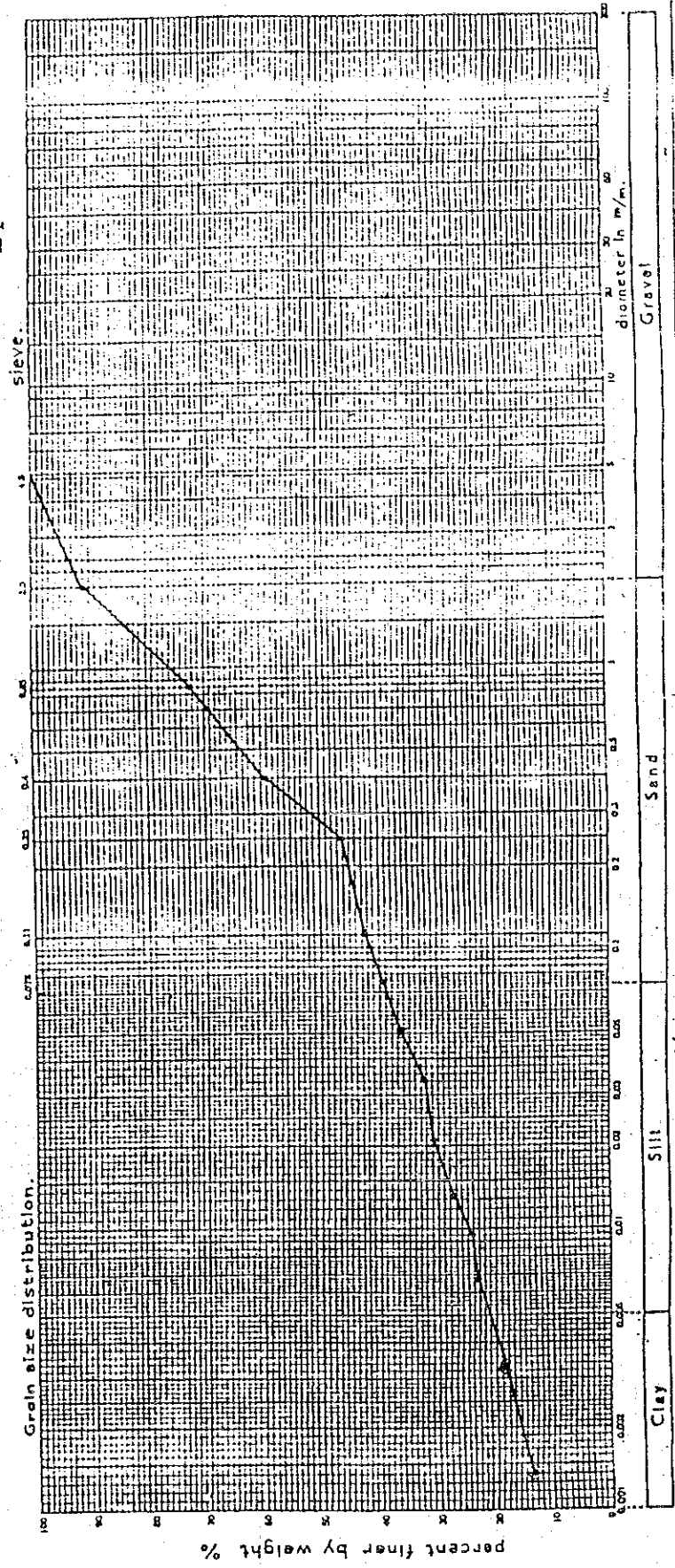
DATE : December , 24 - 1991

TESTED BY : Suminto.B. Specific Gravity : _____



- a CLAY
- b SANDY CLAY
- c SILTY CLAY
- d SANDY CLAY LOAM
- e CLAYEY LOAM
- f SILTY CLAY LOAM
- g SAND
- h SANDY LOAM
- i LOAM
- j SILTY LOAM
- k SILT

Sample No.	Gravel %	Sand %	Silt %	Clay %	Maxsize mm	D.60 mm	D.10 mm	Uniformity Coefficient	Classification
TK-3:2	9	51	19	21	5.00	0.42	-	-	Sandy Clay
(90:10)		56	21	23	2.00	-	-	---	Loam



LIQUID LIMIT & PLASTIC LIMIT TEST
[ESSAI DE LIMITE DE LIQUIDITÉ ET DE LIMITE DE PLASTICITÉ]

FOR REPORTING
 (POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)		CIPANAU / CIBANTEN III	
DATE (DATE)	JANUARI, 6 - 1992.	TESTED BY (ESSAI PAR)	A. Teguh .S.

FLOW CURVE
 (COURBE DE DÉTERMINATION DE LA LIMITE DE LIQUIDITÉ)

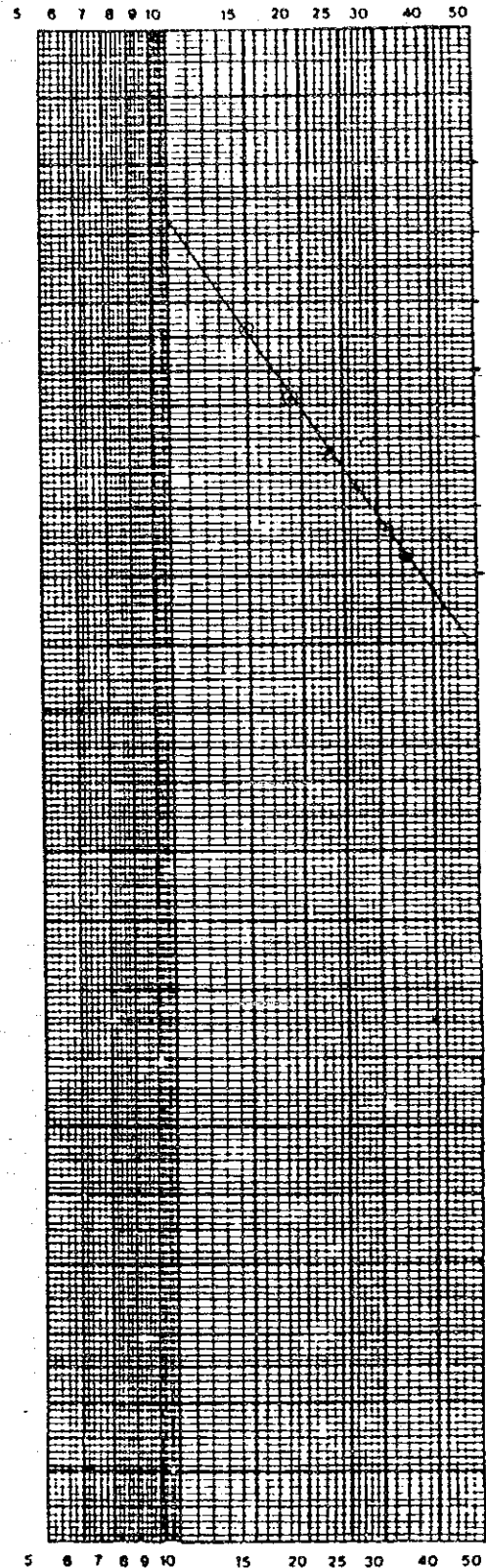
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)		No. TEK.2 (1.5 m - m)	
LIQUID LIMIT TEST (LIMITE DE LIQUIDITÉ)			PLASTIC LIMIT TEST (LIMITE DE PLASTICITÉ)
TEST NO (N° DE L'ESSAI)	NO. OF BLOWS (NOMBRE DE COUP)	WATER CONTENT (TENEUR EN EAU)	TEST NO (N° DE L'ESSAI)
1	35	33.15 %	1
2	31	33.35 %	2
3	27	33.65 %	3
4	23	33.92 %	
5	19	34.30 %	
6	15	34.80 %	MEAN VALUE VALEUR MOYENNE
LIQUID LIMIT (LIMITE DE LIQUIDITÉ)		PLASTIC LIMIT (LIMITE DE PLASTICITÉ)	PLASTICITY INDEX (INDICE DE PLASTICITÉ)
w_L	33.78 %	w_p	16.37 %
		I_p	17.41

F.I = 4.48

CL

SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)		No. TEK.2. (m - 3.01)	
LIQUID LIMIT TEST (LIMITE DE LIQUIDITÉ)			PLASTIC LIMIT TEST (LIMITE DE PLASTICITÉ)
TEST NO (N° DE L'ESSAI)	NO. OF BLOWS (NOMBRE DE COUP)	WATER CONTENT (TENEUR EN EAU)	TEST NO (N° DE L'ESSAI)
1		%	1
2		%	2
3		%	3
4		%	
5		%	
6		%	MEAN VALUE VALEUR MOYENNE
LIQUID LIMIT (LIMITE DE LIQUIDITÉ)		PLASTIC LIMIT (LIMITE DE PLASTICITÉ)	PLASTICITY INDEX (INDICE DE PLASTICITÉ)
w_L	NP %	w_p	%
		I_p	

WATER CONTENT
(TENEUR EN EAU) (%)



NUMBER OF BLOWS (NOMBRE DE COUP)

LIQUID LIMIT & PLASTIC LIMIT TEST
[ESSAI DE LIMITE DE LIQUIDITE ET DE LIMITE DE PLASTICITE]

FOR REPORTING
 (POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY (DENOMINATION DE L'ENQUETE ET LOCALITE)		CIDANAU / CIBANTEN	
DATE (DATE)	JANUARI, 6 -1992	TESTED BY (ESSAI PAR)	A.Teguh.S.

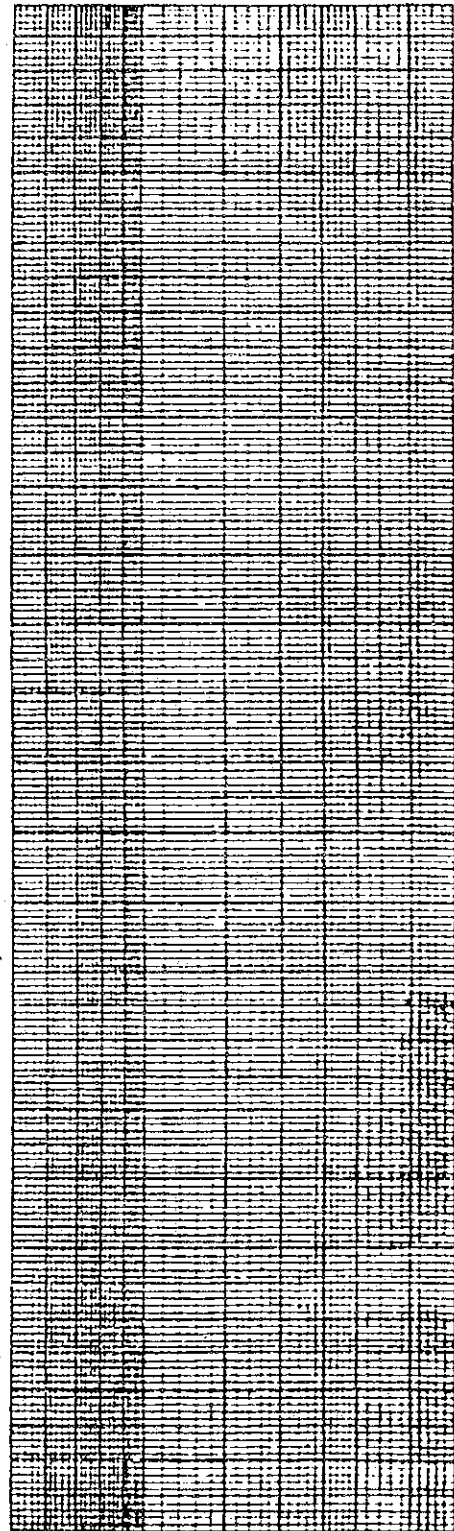
FLOW CURVE
 (COURBE DE DETERMINATION DE LA LIMITE DE LIQUIDITE)

5 6 7 8 9 10 15 20 25 30 40 50

SAMPLE NO. & DEPTH (N° DE L'ECHANTILLON ET PROFONDEUR)		No. THK.1-2 (95 : 5)		
LIQUID LIMIT TEST (LIMITE DE LIQUIDITE)			PLASTIC LIMIT TEST (LIMITE DE PLASTICITE)	
TEST NO. (N° DE L'ESSAI)	NO. OF BLOWS (NOMBRE DE COUP)	WATER CONTENT (TENEUR EN EAU)	TEST NO. (N° DE L'ESSAI)	WATER CONTENT (TENEUR EN EAU)
1		%	1	%
2		%	2	%
3		%	3	%
4		%		
5		%		
6		%	MEAN VALUE (VALEUR MOYENNE)	
LIQUID LIMIT (LIMITE DE LIQUIDITE)		PLASTIC LIMIT (LIMITE DE PLASTICITE)	PLASTICITY INDEX (INDICE DE PLASTICITE)	
w_L	NP %	w_p %	I_p	

SAMPLE NO. & DEPTH (N° DE L'ECHANTILLON ET PROFONDEUR)		No. THK.3-2 (90 : 10)		
LIQUID LIMIT TEST (LIMITE DE LIQUIDITE)			PLASTIC LIMIT TEST (LIMITE DE PLASTICITE)	
TEST NO. (N° DE L'ESSAI)	NO. OF BLOWS (NOMBRE DE COUP)	WATER CONTENT (TENEUR EN EAU)	TEST NO. (N° DE L'ESSAI)	WATER CONTENT (TENEUR EN EAU)
1		%	1	%
2		%	2	%
3		%	3	%
4		%		
5		%		
6		%	MEAN VALUE (VALEUR MOYENNE)	
LIQUID LIMIT (LIMITE DE LIQUIDITE)		PLASTIC LIMIT (LIMITE DE PLASTICITE)	PLASTICITY INDEX (INDICE DE PLASTICITE)	
w_L	NP %	w_p %	I_p	

WATER CONTENT
(TENEUR EN EAU) (%)



5 6 7 8 9 10 15 20 25 30 40 50

NUMBER OF BLOWS (NOMBRE DE COUP)

LIQUID LIMIT & PLASTIC LIMIT TEST
[ESSAI DE LIMITE DE LIQUIDITE ET DE LIMITE DE PLASTICITE]

FOR REPORTING
 [POUR LE RAPPORT]

NAME OF SURVEY & LOCALITY [DENOMINATION DE L'ENQUETE ET LOCALITE]		CIDANAU / CIBANTEN	
DATE [DATE]	JANUARI, 5 -1992	TESTED BY [ESSAI PAR]	A. Teguh .B.

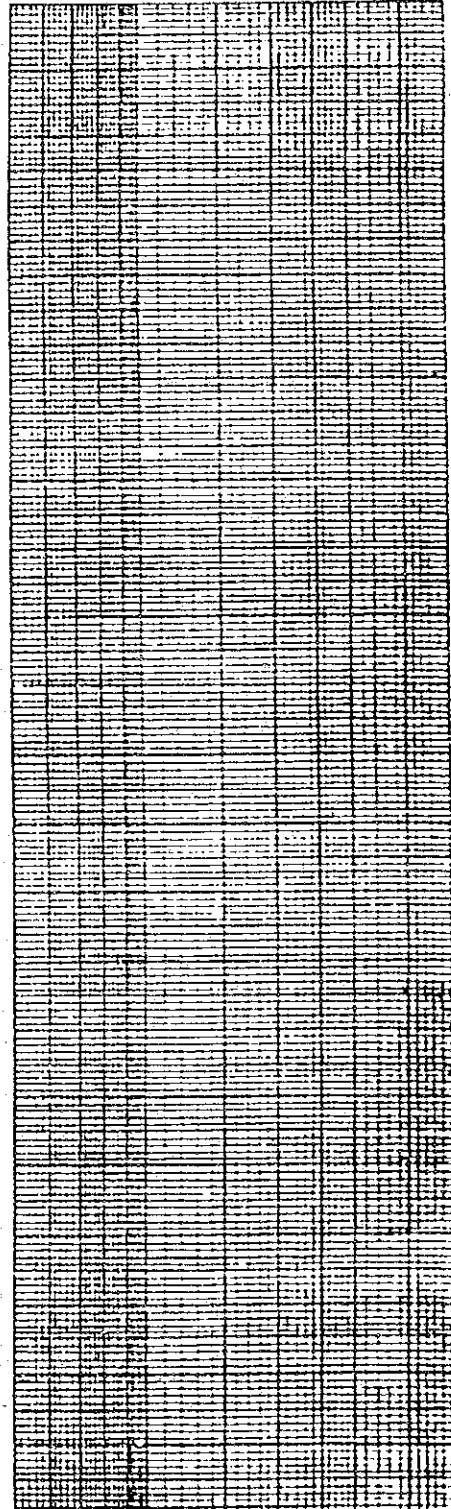
FLOW CURVE
 [COURBE DE DETERMINATION DE LA LIMITE DE LIQUIDITE]

5 6 7 8 9 10 15 20 25 30 40 50

SAMPLE NO. & DEPTH [IN DE L'ECHANTILLON ET PROFONDEUR]			No. THK.1 (-3.0 m)		
LIQUID LIMIT TEST [LIMITE DE LIQUIDITE]			PLASTIC LIMIT TEST [LIMITE DE PLASTICITE]		
TEST NO [N° DE L'ESSAI]	NO OF BLOWS [NOMBRE DE COUPE]	WATER CONTENT [TENEUR EN EAU]	TEST NO [N° DE L'ESSAI]	WATER CONTENT [TENEUR EN EAU]	
1		%	1	%	
2		%	2	%	
3		%	3	%	
4		%			
5		%			
6		%		MEAN VALUE [VALEUR MOYENNE]	
LIQUID LIMIT [LIMITE DE LIQUIDITE]		PLASTIC LIMIT [LIMITE DE PLASTICITE]		PLASTICITY INDEX [INDICE DE PLASTICITE]	
w_L	NP %	w_P	%	I_p	

SAMPLE NO. & DEPTH [IN DE L'ECHANTILLON ET PROFONDEUR]			No. THK.3 (m - -3.0m)		
LIQUID LIMIT TEST [LIMITE DE LIQUIDITE]			PLASTIC LIMIT TEST [LIMITE DE PLASTICITE]		
TEST NO [N° DE L'ESSAI]	NO OF BLOWS [NOMBRE DE COUPE]	WATER CONTENT [TENEUR EN EAU]	TEST NO [N° DE L'ESSAI]	WATER CONTENT [TENEUR EN EAU]	
1		%	1	%	
2		%	2	%	
3		%	3	%	
4		%			
5		%			
6		%		MEAN VALUE [VALEUR MOYENNE]	
LIQUID LIMIT [LIMITE DE LIQUIDITE]		PLASTIC LIMIT [LIMITE DE PLASTICITE]		PLASTICITY INDEX [INDICE DE PLASTICITE]	
w_L	NP %	w_P	%	I_p	

WATER CONTENT
[TENEUR EN EAU] (%)



5 6 7 8 9 10 15 20 25 30 40 50

NUMBER OF BLOWS [NOMBRE DE COUPE]

PERMEABILITY TEST (ESSAI DE PERMÉABILITÉ)					
NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)		Cidanau - Cibanten III		DATE (DATE)	Jan.16.'92
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)		TPK-1 (- 3.00)m		TESTED BY (ESSAYÉ PAR)	Joko Wahono Cs.
APPARATUS (N°) (N° DE L'APPAREIL)		CONTAINER NO. (N° DU RÉCIPENT)		SAMPLE (ÉCHANTILLON)	
				(UNDISTURBED - UNPERTURBÉ) (DISTURBED - PERTURBÉ)	
DIAMETER (DIAMÈTRE)	DIAMETER (DIAMÈTRE)	(cm)	1.50	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)	
	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	$a^2(\text{cm}^2)$	1.7671	BEFORE TEST (AVANT ESSAI)	AFTER TEST (APRÈS ESSAI)
DIAMETER (DIAMÈTRE)	DIAMETER (DIAMÈTRE)	(cm)	10.00	WEIGHT CONTAINER-SPECIMEN (POIDS RÉCIPENT - SPÉCIMEN)	3684
	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	$A(\text{cm}^2)$	78.5398	WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	1675
LENGTH (LONGUEUR)	LENGTH (LONGUEUR)	(cm)	12.70	WET DENSITY (DENSITÉ HUMIDE)	1.675
	VOLUME (VOLUME)	$V=AL(\text{cm}^3)$	997.4557	DEGREE OF SATURATION (DEGRÉ DE SATURATION)	72.12
WEIGHT OF CONTAINER (POIDS DU RÉCIPENT)		W _c	2009	WATER CONTENT (TENEUR EN EAU)	24.50
TEMP. CORRECTED (TEMP. CORRIGÉE)		G	2.478	DRY DENSITY (DENSITÉ SÈCHE)	1.345
				VOID RATIO (INDICE DES VIDES)	0.842

TEST NO. (N° DE L'ESSAI)	1	2	3		
TIME OF INITIAL OBSERVATION (MOMENT OU L'OBSERVATION COMMENCE)	10.00	08.25	16.15		
TIME OF FINAL OBSERVATION (MOMENT OU L'OBSERVATION FINIT)	08.25	16.15	08.35		
ELAPSED TIME (TEMPS ÉCoulÉ)	80700	28200	58800		
CONSTANT HEAD METHOD (MÉTHODE DES NIVEAUX CONSTANTES)	* HEAD (DIFFÉRENCE DE NIVEAU)	h (cm)			
	$A \cdot (t_1 - t_2)$				
	L · h				
	VOLUME OF DISCHARGE IN $t_1 - t_2$ (VOLUME D'ÉPANCHEMENT EN $t_1 - t_2$)	$Q(\text{cm}^3)$			
	$Q/A \cdot (t_1 - t_2)$				
$k_v = \frac{L}{h} \cdot \frac{Q}{A \cdot (t_1 - t_2)}$ (cm/sec)					
FALLING HEAD METHOD (MÉTHODE DES NIVEAUX VARIABLES)	* HEAD AT t_1 (OFF. DE NIVEAU À t_1)	$h_1(\text{cm})$	213.0	213.0	213.0
	* HEAD AT t_2 (OFF. DE NIVEAU À t_2)	$h_2(\text{cm})$	206.0	209.8	208.0
	h_1/h_2		1.0340	1.0153	1.0240
	$\log_{10}(h_1/h_2)$		1.451×10^{-2}	6.574×10^{-3}	1.032×10^{-2}
	a · L		22.4428	22.4428	22.4428
	aL/A		0.2858	0.2858	0.2858
	$2.3/(t_1 - t_2)$		2.850×10^{-5}	8.1560×10^{-5}	3.912×10^{-5}
	** $k_v = \frac{aL}{A} \cdot \frac{2.3}{(t_1 - t_2)} \cdot 10 \log_{10} \frac{h_1}{h_2}$ (cm/sec)		1.182×10^{-7}	1.532×10^{-7}	1.153×10^{-7}
	WATER TEMPERATURE (TEMPÉRATURE DE L'EAU)	T (°C)	25°	25°	25°
	*** μ_{15}		0.9979	0.9979	0.9979
** $k_{15} = k_v \cdot \frac{\mu_{15}}{\mu_t}$		1.179×10^{-7}	1.529×10^{-7}	1.151×10^{-7}	
MEAN VALUE OF k_{15} (VALEUR MOYENNE DE k_{15})		1.286×10^{-7} cm/sec			

WATER CONTENT BEFORE TEST (TENEUR EN EAU AVANT ESSAI)	
w_2	L - 42
w_1	82.2270
w_2	73.6839
w_1	73.6839
w_2	38.5418
w_1	8.5431
w_2	35.1421
w	24.31
w_2	L - 23
w_1	74.2125
w_2	67.0180
w_1	67.0180
w_2	38.1824
w_1	7.1945
w_2	28.8356
w	24.95
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	
w	24.63
WATER CONTENT AFTER TEST (TENEUR EN EAU APRÈS ESSAI)	
w_2	L - 3
w_1	84.3057
w_2	73.1278
w_1	73.1278
w_2	40.1740
w_1	11.1799
w_2	32.9538
w	33.92
w_2	L - 13
w_1	91.8020
w_2	78.1009
w_1	78.1009
w_2	38.0958
w_1	13.7011
w_2	40.0051
w	34.18
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	
w	34.05

* DIFFERENCE BETWEEN HEAD WATER AND TALWATER
(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
*** μ_{15} IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT 15°C.
(μ_{15} EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À 15°C.)

** COEFFICIENT OF PERMEABILITY AT 15°C
(OR 15°C)
(COEFFICIENT DE PERMÉABILITÉ À 15°C)
(OU 15°C)

PERMEABILITY TEST
(ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)	Cidanau - Cibanten III	DATE (DATE)	Jan. 17 - (91
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK-2 (-1.50) m	TESTED BY (ESSAYÉ PAR)	Joko Wahono Co.

APPARATUS NO. (N° DE L'APPAREIL)	CONTAINER NO. (N° DU RÉCIENT)	SAMPLE (ÉCHANTILLON)	UNDISTURBED / UNSTURBED (INTACT / DÉTRAITÉ)
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PARTIE (PARTIE)	DIAMETER (DIAMÈTRE)	GROSS SECTIONAL AREA (SURF. DE LA SECTION)	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)		BEFORE TEST (AVANT ESSAI)	AFTER TEST (APRÈS ESSAI)
			DIAMETER (DIAMÈTRE)	1.000	WEIGHT OF CONTAINER + SPECIMEN (POIDS RÉCIENT + SPÉCIMEN)	W ₁
DIAMETER (DIAMÈTRE)	10.000	WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	W ₂ = W ₁ - W ₃	1908	2000	
GROSS SECTIONAL AREA (SURF. DE LA SECTION)	78.5398	WET DENSITY (DENSITÉ HUMIDE)	W ₂ / V ₂	1.908	2.000	
DEPTH (LONGUEUR)	12.70	DEGREE OF SATURATION (DEGRÉ DE SATURATION)	S ₂ (%)	74.70	99.40	
VOLUME (VOLUME)	V = AL (m ³)	WATER CONTENT (TENEUR EN EAU)	w (%)	17.00	22.61	
WEIGHT OF CONTAINER (POIDS DU RÉCIENT)	W ₃ (g)	DRY DENSITY (DENSITÉ SÈCHE)	W ₂ / (V ₂ - W ₃ / G)	1.631	1.631	
FIELD DENSITY (DENSITÉ DE CHAMP)	G	WATER CONTENT (TENEUR EN EAU)	w (%)	0.599	0.589	

TIME OF INITIAL OBSERVATION (MOMENT OU L'OBSERVATION COMMENCE)	1			2			3			
	13.00	13.00	09.18	10.00	09.18	10.00	09.25	09.18	10.00	
09.18	09.18	10.00	09.25	09.18	10.00	09.25	09.18	10.00		
73080	73080	83880	41100	73080	83880	41100	73080	83880		
* HEAD (DIFFÉRENCE DE NIVEAU)	h (cm)			h (cm)			h (cm)			
A (l ₁ - l ₂)										
L h										
VOLUME OF DISCHARGE IN t ₁ - t ₂ (VOLUME D'ÉPANCHEMENT EN t ₁ - t ₂)	Q (m ³)			Q (m ³)			Q (m ³)			
Q/A (l ₁ - l ₂)										
k _r = L / h * Q / (A (l ₁ - l ₂)) (cm/sec)										
* HEAD AT t ₁ (DIFF. DE NIVEAU À t ₁)	h ₁ (cm)	210.0	210.0	210.0	210.0	210.0	210.0	210.0		
* HEAD AT t ₂ (DIFF. DE NIVEAU À t ₂)	h ₂ (cm)	207.5	204.6	207.4	207.5	204.6	207.4	207.5		
h ₁ / h ₂		1.0120	1.02639	1.01254	1.0120	1.02639	1.01254	1.0120		
log ₁₀ (h ₁ / h ₂)		5.2012x10 ⁻³	1.1314x10 ⁻²	5.4105x10 ⁻³	5.2012x10 ⁻³	1.1314x10 ⁻²	5.4105x10 ⁻³	5.2012x10 ⁻³		
a - L		9.9746	9.9746	9.9746	9.9746	9.9746	9.9746	9.9746		
a/LA		0.1270	0.1270	0.1270	0.1270	0.1270	0.1270	0.1270		
2.3/(l ₁ - l ₂)		3.1472x10 ⁻⁵	2.7420x10 ⁻⁵	5.5961x10 ⁻⁵	3.1472x10 ⁻⁵	2.7420x10 ⁻⁵	5.5961x10 ⁻⁵	3.1472x10 ⁻⁵		
k _r = aL / A * 2.3 / (l ₁ - l ₂) * 10 ¹⁰ h ₁ / h ₂ (cm/sec)		2.0789x10 ⁻⁸	3.9398x10 ⁻⁸	3.8453x10 ⁻⁸	2.0789x10 ⁻⁸	3.9398x10 ⁻⁸	3.8453x10 ⁻⁸	2.0789x10 ⁻⁸		
WATER TEMPERATURE (TEMPÉRATURE DE L'EAU)	t (°C)	25°	25°	25°	25°	25°	25°	25°		
μ ₁₅ / μ _t		0.9979	0.9979	0.9979	0.9979	0.9979	0.9979	0.9979		
k ₁₅ = k _r * μ ₁₅ / μ _t		2.0745x10 ⁻⁸	3.9316x10 ⁻⁸	3.8372x10 ⁻⁸	2.0745x10 ⁻⁸	3.9316x10 ⁻⁸	3.8372x10 ⁻⁸	2.0745x10 ⁻⁸		
MEAN VALUE OF k ₁₅ (VALEUR MOYENNE DE k ₁₅)		3.2811 x10 ⁻⁸								

WATER CONTENT BEFORE TEST (TENEUR EN EAU AVANT ESSAI)	
No J - 82	
W ₁ 78.3572	W ₂ 72.8555
W ₃ 72.8555	W ₄ 40.4399
W ₅ 5.4977	W ₆ 32.4156
w = 16.92 %	
No J - 56	
W ₁ 84.9710	W ₂ 77.9745
W ₃ 77.9745	W ₄ 36.8914
W ₅ 6.9965	W ₆ 41.0831
w = 17.03 %	
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	w = 17.00 %

WATER CONTENT AFTER TEST (TENEUR EN EAU APRÈS ESSAI)	
No J - 91	
W ₁ 85.6138	W ₂ 76.5633
W ₃ 76.5633	W ₄ 36.9551
W ₅ 9.0505	W ₆ 39.6082
w = 22.85 %	
No J - 60	
W ₁ 87.4767	W ₂ 78.4516
W ₃ 78.4516	W ₄ 38.0981
W ₅ 9.0271	W ₆ 40.3535
w = 22.37 %	
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	w = 22.61 %

* DIFFERENCE BETWEEN HEAD WATER AND TAL WATER
(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * μ₁₅ IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT 15°C.
(μ₁₅ EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À 15°C.)

* COEFFICIENT OF PERMEABILITY AT 15°C
(COEFFICIENT DE PERMÉABILITÉ À 15°C)
 (OR 15°C)
(OU 15°C)

PERMEABILITY TEST
(ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY (NOM DE LA SURVEILLE ET LOCALITÉ)	Cidenu - Cibanten III	DATE (DATE)	Jan 16 - '92
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK - 2 (- 3.00) m	TESTED BY (ESSAYÉ PAR)	Joko Wahono Cs.

ACCOUNTING NO. (N° DE L'APPAREIL)	CONTAINER NO. (N° DU RÉCÉPENT)	SAMPLE (ÉCHANTILLON)	UNSATURATED - TEST SPECIMEN (NIVEAU - ÉCHANTILLON)
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DIAMETER (DIAMÈTRE)	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	DIAMETER (DIAMÈTRE)	CROSS SECTIONAL AREA (SURF. DE LA SECTION)	CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)		BEFORE TEST (AVANT ESSAI)	AFTER TEST (APRÈS ESSAI)
				WEIGHT OF CONTAINER + SPECIMEN (POIDS RÉCÉPENT + SPÉCIMEN)	WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	WATER CONTENT (TENEUR EN EAU)	WATER CONTENT (TENEUR EN EAU)
1.500	1.76715	10.000	78.5398	3694	1704	3799	1809
		12.70	1000	1.704	1.339	1.809	1.339
				77.35	0.892	99.70	0.893
				27.23		35.11	
				1.339		1.339	
				2.534		0.892	0.893

TIME OF INITIAL OBSERVATION (MOMENT OU L'OBSERVATION COMMENCE)	TIME OF FINAL OBSERVATION (MOMENT OU L'OBSERVATION FINIT)	ELAPSED TIME (TEMPS ÉCoulÉ)	CONSTANT HEAD METHOD (MÉTHODE DES NIVEAUX CONSTANTES)		
			1	2	3
08.15	08.26	87060			
08.26	16.41	29700			
08.25	08.25	56640			
HEAD (DIFFÉRENCE DE NIVEAU)					
A - (L ₁ - L ₂)					
L · h					
VOLUME OF DISCHARGE IN (VOLUME D'ÉPANCHEMENT EN)					
Q/A · (L ₁ - L ₂)					
k _r = $\frac{L}{h} \cdot \frac{Q}{A(L_1 - L_2)}$ (cm/sec)					
HEAD AT t ₁ (DIFF. DE NIVEAU À t ₁)			210.0	204.5	202.9
HEAD AT t ₂ (DIFF. DE NIVEAU À t ₂)			204.5	202.9	199.5
h ₁ /h ₂			1.0269	1.0079	1.01704
log ₁₀ (h ₁ /h ₂)			1.1526x10 ⁻²	3.4113x10 ⁻³	7.3391x10 ⁻³
a · L			22.4428	22.4428	22.4428
aL/A			0.2858	0.2858	0.2858
2.3/(L ₁ - L ₂)			2.6419x10 ⁻⁵	7.7441x10 ⁻⁵	4.1042x10 ⁻⁵
k ₁₅ = $\frac{aL}{A} \cdot \frac{2.3}{(L_1 - L_2)} \cdot 10^{10} \frac{h_1}{h_2}$ (cm/sec)			8.7011x10 ⁻⁸	7.5487x10 ⁻⁸	8.6072x10 ⁻⁸
WATER TEMPERATURE (TEMPÉRATURE DE L'EAU)			25°	25°	25°
μ _T / μ ₁₅			0.9979	0.9979	0.9979
k ₁₅ = k _r $\frac{\mu_{15}}{\mu_T}$			8.6828x10 ⁻⁸	7.5329x10 ⁻⁸	8.5891x10 ⁻⁸
MEAN VALUE OF k ₁₅ (VALEUR MOYENNE DE k ₁₅)			8.2683x10 ⁻⁸ cm/sec		

WATER CONTENT BEFORE TEST (TENEUR EN EAU AVANT ESSAI)	
No. J - 06	
w. 73.5733	w. 65.6087
w. 65.6087	w. 36.4344
w. 7.9646	w. 29.1743
w = 27.30	
No. L - 63	
w. 77.9094	w. 69.3756
w. 69.3756	w. 37.9435
w. 8.5338	w. 31.4321
w = 27.15	
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	
w = 27.23	
WATER CONTENT AFTER TEST (TENEUR EN EAU APRÈS ESSAI)	
No. J - 18	
w. 95.0096	w. 80.2972
w. 80.2972	w. 39.5314
w. 14.7114	w. 40.7658
w = 36.09	
No. J - 91	
w. 87.9397	w. 74.9664
w. 74.9664	w. 36.9551
w. 12.9733	w. 38.0113
w = 34.13	
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	
w = 35.11	

* DIFFERENCE BETWEEN HEAD WATER AND TAIL WATER
(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
*** μ_T IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T °C.
(μ_T EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T °C.)

** COEFFICIENT OF PERMEABILITY AT T °C
(OR 15 °C)
(COEFFICIENT DE PERMÉABILITÉ À T °C
OU 15 °C)

PERMEABILITY TEST
(ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)	Cidanau - Cibanten III	DATE (DATE)	Jan, 10 - '92
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK - 3 (3.00) m	TESTED BY (ESSAYÉ PAR)	Joko.W.

APPARATUS NO. (N° DE L'APPAREIL)	CONTAINER NO. (N° DU RÉCÉPENT)	SAMPLE ÉCHANTILLON	(UNSTURBED - DISTURBED) (INTACT - DÉTRAITÉ)
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Burette (BURETTE)	Diameter (diamètre)	(cm)	1.0	CONCENTRATION OF SPECIMEN (CONCENTRATION DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAI)	AFTER TEST (APRÈS ESSAI)	
	Cross sectional area (SURF. DE LA SECTION)	$a(\text{cm}^2)$	0.7854				
Specimen (SPÉCIMEN)	Diameter (diamètre)	(cm)	10.0	Weight container specimen (POIDS RÉCÉPENT - SPÉCIMEN)	W_1	3776	3871
	Cross sectional area (SURF. DE LA SECTION)	$A(\text{cm}^2)$	78.5398	Weight of specimen (POIDS DU SPÉCIMEN)	$W_2 = W_1 - W_0$	1770	1865
	Length (longueur)	$L(\text{cm})$	12.70	Wet density (DENSITÉ HUMIDE)	$\rho_w = W_2 / V$	1.770	1.865
	Volume (volume)	$V = AL(\text{cm}^3)$	997.45546	Degree of saturation (DEGRÉ DE SATURATION)	S_r	77.39	99.72
	Weight of container (POIDS DU RÉCÉPENT)	$W_0(\text{g})$	2006	Water content (TENEUR EN EAU)	w	22.60	29.05
Specific gravity (DENSITÉ RELATIVE)	G_s	2.496	Porosity (POROSITÉ)	n	1.444	1.445	
				Void ratio (INDICE DES VIDES)	e	0.729	0.729

Time of L. Essay	1	2	3		
Time of initial observation (instant où l'observation commence)	16.00	08.12	16.01		
Time of final observation (moment où l'observation finit)	08.10	16.00	08.10		
Elapsed time (temps écoulé)	58200	28080	58140		
Constant head method (Méthode des niveaux constants)	Head (différence de niveau)	$h(\text{cm})$			
	$A(h_1 - h_2)$				
	$L \cdot h$				
	Volume of discharge in $t_1 - t_2$ (volume d'épanchement en $t_1 - t_2$)	$Q(\text{cm}^3)$			
	$Q/A(h_1 - h_2)$				
$k_r = \frac{L}{h} \cdot \frac{Q}{A(h_1 - h_2)}$ (cm/sec)					
Falling head method (Méthode des niveaux variables)	Head at t_1 (diff. de niveau à t_1)	$h_1(\text{cm})$	213	213	213
	Head at t_2 (diff. de niveau à t_2)	$h_2(\text{cm})$	197.8	206.8	199.9
	h_1/h_2		1.0768	1.0300	1.0655
	$\log_{10}(h_1/h_2)$		3.215×10^{-2}	1.283×10^{-2}	2.7567×10^{-2}
	$a \cdot L$		9.9746	9.9746	9.9746
	aL/A		0.12700	0.12700	0.12700
	$2.3/(t_1 - t_2)$		3.9514×10^{-5}	8.1909×10^{-5}	3.9560×10^{-5}
$k_r = \frac{aL}{A} \cdot \frac{2.3}{(t_1 - t_2)} \cdot 10^{10} \log_{10} \frac{h_1}{h_2}$ (cm/sec)		1.6137×10^{-7}	1.3345×10^{-7}	1.3850×10^{-7}	
Water temperature (température de l'eau)	$T(^{\circ}\text{C})$	25	25	25	
μ_{15} / μ_{15}		0.9979	0.9979	0.9979	
$k_{15} = k_r \cdot \frac{\mu_{15}}{\mu_T}$		1.6103×10^{-7}	1.3317×10^{-7}	1.3821×10^{-7}	
Mean value of k_{15} (valeur moyenne de k_{15})		1.4414×10^{-7} cm/sec			

Water content before test (teneur en eau avant essai)	No. J 93	
W_1	92.1482	W_2 73.6851
W_2	73.6851	W_3 38.9695
W_3	7.9325	W_4 34.7156
w	22.85	
	No. J 26	
W_1	77.2920	W_2 69.9267
W_2	69.9267	W_3 36.9722
W_3	7.3653	W_4 32.9545
w	22.35	
Mean water content (teneur moyenne en eau)	$w = 22.60$	

Water content after test (teneur en eau après essai)	No. L 35	
W_1	92.1482	W_2 81.1967
W_2	81.1767	W_3 43.2916
W_3	10.9715	W_4 37.8851
w	28.96	
	No. J 03	
W_1	92.6331	W_2 79.4667
W_2	79.4667	W_3 34.2836
W_3	13.1664	W_4 45.1831
w	29.14	
Mean water content (teneur moyenne en eau)	$w = 29.05$	

* DIFFERENCE BETWEEN HEAD WATER AND TAL WATER
(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 *** μ_{15} IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T °C.
(μ_{15} EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T °C.)
 ** COEFFICIENT OF PERMEABILITY AT T °C
(COEFFICIENT DE PERMÉABILITÉ À T °C)
 OR 15 °C
 OU 15 °C

PERMEABILITY TEST
(ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY (NOM DE LA SURVEILLE ET LOCALITÉ)	Cidanau - Cibanten III	DATE (DATE)	Jan, 9 - '92
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK-1 : 2 (95 : 5)	TESTED BY (ESSAYÉ PAR)	Joko.W.
APPARATUS NO. (N° DE L'APPAREIL)		CONTAINER NO. (N° DU RÉCIPENT)	
		SAMPLE (ÉCHANTILLON)	UNDISTURBED - UNSTURBED (INTACT - DÉTRUIT)

PROPERTY (PROPRIÉTÉ)	UNIT (UNITÉ)	BEFORE TEST (AVANT ESSAI)	AFTER TEST (APRÈS ESSAI)
DIAMETER (DIAMÈTRE)	(m)	1.50	
CROSS SECTIONAL AREA (SURF. DE LA SECTION)	$a(m^2)$	1.7671	
DIAMETER (DIAMÈTRE)	(m)	10.0	
CROSS SECTIONAL AREA (SURF. DE LA SECTION)	$A(m^2)$	78.5398	
LENGTH (LONGUEUR)	$L(m)$	12.73	
VOLUME (VOLUME)	$V=AL(m^3)$	1000	
WEIGHT OF CONTAINER (POIDS DU RÉCIPENT)	$W_c(kg)$	1982	
WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	$W_s(kg)$		
DENSITY (DENSITÉ)	G	2.485	
WEIGHT OF CONTAINER + SPECIMEN (POIDS RÉCIPENT + SPÉCIMEN)	$W_c + W_s$		
WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	$W_s = W - W_c$	3772	3811
WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	$W_s = W - W_c$	1740	1829
WET DENSITY (DENSITÉ MOUILLÉE)	$\gamma_w = W_s / V$	1.740	1.829
DEGREE OF SATURATION (DEGRÉ DE SATURATION)	$S_r = W_s / (V \cdot G)$	77.51	98.0
WATER CONTENT (TENEUR EN EAU)	$w = W_w / W_s$	24.08	30.45
SOY DENSITY (DENSITÉ SÈCHE)	$\gamma_d = W_s / V$	1.402	1.402
WATER CONTENT (TENEUR EN EAU)	$w = W_w / W_s$	0.772	0.772

TIME (TEMPS)	1	2	3
TIME OF INITIAL OBSERVATION (MOMENT OU L'OBSERVATION COMMENCE)	08.30	08.40	08.40
TIME OF FINAL OBSERVATION (MOMENT OU L'OBSERVATION FINIT)	08.35	08.40	08.51
ELAPSED TIME (TEMPS ÉCOULÉ)	86700	96400	87060
HEAD (DIFFÉRENCE DE NIVEAU)	$h_1(m)$		
$A \cdot (1 - t_1)$			
$L \cdot h$			
VOLUME OF DISCHARGE IN (VOLUME D'ÉPANCHEMENT EN)			
$Q/A \cdot (1 - t_1)$			
$k_r = \frac{L}{h} \frac{Q}{A \cdot (1 - t_1)}$ (cm/sec)			
HEAD AT t_1 (DIFF. DE NIVEAU À t_1)	$h_1(m)$	213	213
HEAD AT t_2 (DIFF. DE NIVEAU À t_2)	$h_2(m)$	209.5	210.7
h_1/h_2		1.0167	1.0109
$\log_{10}(h_1/h_2)$		7.1956×10^{-3}	4.7151×10^{-3}
$a \cdot L$		22.4428	22.4428
aL/A		0.2858	0.2858
$2.3/(1 - t_1)$		2.6528×10^5	2.6620×10^5
$k_r = \frac{aL}{A} \frac{2.3}{(1 - t_1)} \log_{10} \frac{h_1}{h_2}$ (cm/sec)		5.4546×10^8	3.5866×10^8
WATER TEMPERATURE (TEMPÉRATURE DE L'EAU)	$T(^{\circ}C)$		
μ_{15}			
$k_{15} = k_r \frac{\mu_{15}}{\mu_{15}}$			
MEAN VALUE OF k_{15} (VALEUR MOYENNE DE k_{15})			cm/sec

WATER CONTENT BEFORE TEST (TENEUR EN EAU AVANT ESSAI)
$w = 24.56\%$
$w = 23.60\%$
$w = 24.08\%$
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
$w = 24.08\%$
WATER CONTENT AFTER TEST (TENEUR EN EAU APRÈS ESSAI)
$w = 31.02\%$
$w = 29.88\%$
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
$w = 30.45\%$

* DIFFERENCE BETWEEN HEAD WATER AND TALWATER
(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 ** μ IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT $T^{\circ}C$.
 *** μ IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT $T^{\circ}C$.

* COEFFICIENT OF PERMEABILITY AT $T^{\circ}C$
 OR $15^{\circ}C$
 (COEFFICIENT DE PERMÉABILITÉ À $T^{\circ}C$
 OU $15^{\circ}C$)

PERMEABILITY TEST
(ESSAI DE PERMÉABILITÉ)

NAME OF SURVEY & LOCALITY (NOM DE L'APPAREIL)	Cidanau - Cibanten III	DATE (DATE)	Jan, 1 - '92
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK-3 : 2 (90 : 10)	TESTED BY (ESSAYÉ PAR)	Joko W

APPARATUS NO. (N° DE L'APPAREIL)	CONTAINER NO. (N° DU RÉCIPENT)	SAMPLE (ÉCHANTILLON)	UNSATURATED - UNSATURÉ
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BURETTE (BURETTE)	DIAMETER (DIAMÈTRE)		CONDITIONS OF SPECIMEN (CONDITIONS DU SPÉCIMEN)	BEFORE TEST (AVANT ESSAI)		AFTER TEST (APRÈS ESSAI)	
	(cm)	(m)		WEIGHT CONTAINER + SPECIMEN (POIDS RÉCIPENT + SPÉCIMEN)	W _k	3756	3866
SPECIMEN (SPÉCIMEN)	CROSS SECTIONAL AREA (SURF. DE LA SECTION)		WEIGHT OF SPECIMEN (POIDS DU SPÉCIMEN)	W _s	1747	1857	WET DENSITY (DENSITÉ HUMIDE)
	(cm ²)	(m ²)					
SPECIMEN (SPÉCIMEN)	DIAMETER (DIAMÈTRE)		DEGREE OF SATURATION (DEGRÉ DE SATURATION)	S ₁	71.92	97.9	WATER CONTENT (TENEUR EN EAU)
	(cm)	(m)					
SPECIMEN (SPÉCIMEN)	CROSS SECTIONAL AREA (SURF. DE LA SECTION)		WET DENSITY (DENSITÉ HUMIDE)	W _w	1.444	1.444	MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
	(cm ²)	(m ²)					
SPECIMEN (SPÉCIMEN)	LENGTH (LONGUEUR)		SPECIFIC GRAVITY (DENSITÉ SÈCHE)	G _s	2.496	2.496	MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
	(cm)	(m)					
SPECIMEN (SPÉCIMEN)	VOLUME (VOLUME)		SPECIFIC GRAVITY (DENSITÉ SÈCHE)	G _s	2.496	2.496	MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)
	(cm ³)	(m ³)					

TIME (N° DE L'ESSAI)	1		2		3		
	TIME OF INITIAL OBSERVATION (MOMENT OU L'OBSERVATION COMMENCE)	08.30	08.44	08.45	08.45	08.45	08.45
TIME OF FINAL OBSERVATION (MOMENT OU L'OBSERVATION FINIT)	08.37	08.45	08.45	08.45	08.45	09.32	
ELAPSED TIME (TEMPS ÉCOULÉ)	86820	86460	86460	86460	86460	89220	
CONSTANT HEAD METHOD (MÉTODE DES NIVEAUX CONSTANTES)	* HEAD (DIFFÉRENCE DE NIVEAU)	h (cm)		h (cm)		h (cm)	
	A · (1 ₁ - 1 ₂)						
	L · h						
	VOLUME OF DISCHARGE IN (t ₁ - t ₂) (VOLUME D'ÉPANCHEMENT EN (t ₁ - t ₂))	Q (cm ³)		Q (cm ³)		Q (cm ³)	
Q/A · (1 ₁ - 1 ₂)							
k _v = $\frac{L}{h} \cdot \frac{Q}{A(1_1 - 1_2)}$ (cm/sec)							
FALLING HEAD METHOD (MÉTODE DES NIVEAUX VARIABLES)	* HEAD AT t ₁ (DIFF. DE NIVEAU À t ₁)	h ₁ (cm)		h ₁ (cm)		h ₁ (cm)	
	* HEAD AT t ₂ (DIFF. DE NIVEAU À t ₂)	h ₂ (cm)		h ₂ (cm)		h ₂ (cm)	
	h ₁ /h ₂	1.0406		1.0401		1.0417	
	log ₁₀ (h ₁ /h ₂)	1.7298x10 ⁻²		1.7083x10 ⁻²		1.7729x10 ⁻²	
	a · L	9.9746		9.9746		9.9746	
	aL/A	0.1270		0.1270		0.1270	
	2.3/(1 ₁ - 1 ₂)	7		7		7	
* k _f = $\frac{aL}{A} \cdot \frac{2.3}{(1_1 - 1_2)} \cdot 10^{10} \cdot \frac{h_1}{h_2}$ (cm/sec)	5.8198x10 ⁻⁸		5.7714x10 ⁻⁸		5.8043x10 ⁻⁸		
WATER TEMPERATURE (TEMPÉRATURE DE L'EAU)	t (°C)		t (°C)		t (°C)		
μ _t	0.9979		0.9979		0.9979		
k ₁₅ = k _t · $\frac{\mu_{15}}{\mu_t}$	5.8076x10 ⁻⁸		5.7593x10 ⁻⁸		5.7921x10 ⁻⁸		
MEAN VALUE OF k ₁₅ (VALEUR MOYENNE DE k ₁₅)			5.7863x10 ⁻⁸				

WATER CONTENT BEFORE TEST (TENEUR EN EAU AVANT ESSAI)	
h ₂ J 46	
w ₁ 74.5125	w ₂ 67.7770
w ₂ 67.7770	w ₃ 35.6418
w ₃ 6.7355	w ₄ 32.1352
w = 20.96 %	
h ₂ J 61	
w ₁ 72.7934	w ₂ 66.7833
w ₂ 66.7833	w ₃ 38.2183
w ₃ 6.0101	w ₄ 28.5651
w = 21.04 %	
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	
w = 21.0 %	

WATER CONTENT AFTER TEST (TENEUR EN EAU APRÈS ESSAI)	
h ₂ J 06	
w ₁ 85.8751	w ₂ 74.9516
w ₂ 74.9516	w ₃ 36.4344
w ₃ 10.9235	w ₄ 38.5172
w = 28.36 %	
h ₂ J 74	
w ₁ 83.8618	w ₂ 73.4361
w ₂ 73.4361	w ₃ 37.2105
w ₃ 10.4257	w ₄ 36.2256
w = 28.28 %	
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU)	
w = 28.57 %	

* DIFFERENCE BETWEEN HEAD WATER AND TAIL WATER
(DIFFÉRENCE ENTRE LE NIVEAU D'EAU EN TÊTE DE COLONNE ET LE NIVEAU D'ÉPANCHEMENT)
 * μ_t IS THE COEFFICIENT OF VISCOSITY OF THE WATER AT T °C.
(μ_t EST LE COEFFICIENT DE VISCOSITÉ DE L'EAU À T °C.)

* k IS COEFFICIENT OF PERMEABILITY AT T °C
(k IS LE COEFFICIENT DE PERMÉABILITÉ À T °C)
 (OR 15 °C)
(OU 15 °C)

COMPACTION TEST
(ESSAI DE COMPACTAGE)

FOR REPORTING
(POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ÉCHANTILLON ET LOCALITÉ)	CIDANAU, CIBANTEN	DATE (DATE)	Desember 30.1991
SAMPLE NO & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK.1 (- 3.00 m - m)	TESTED BY (ESSAI PAR)	Triyanto Effendy cs.

MOULD (MOULE)	No	WEIGHT (POIDS)	1959 g	INSIDE DIAMETER (DIAMÈTRE INT)	10 cm	CAPACITY (CAPACITÉ)	1000 cm ³	
RAMMER (MORSE)	WEIGHT (POIDS)	2.50 g	HEIGHT OF DROP (HAUTEUR DE CHUTE)	30 cm	BLOWS PER LAYER (NOMBRE DE COUPS POUR CHAQUE COUCHE)	3	NUMBER OF LAYERS (NOMBRE DE COUCHE)	25
MATERIAL USED FOR SPECIMENS (MATÉRIAU CHOISI POUR LES SPÉCIMENS)				REFREPROCESSING-DIFFERENT (RECONDITIONNÉ-AUTRE)	SOIL PREPARED FOR TEST (SOL PRÉPARÉ POUR L'ESSAI)		AIRDRIED-NOT DRIED (SÈCHÉ À L'AIR LIBRE-NON SÈCHÉ)	

NATURAL WATER CONTENT (TENEUR NATURELLE EN EAU) w_n %

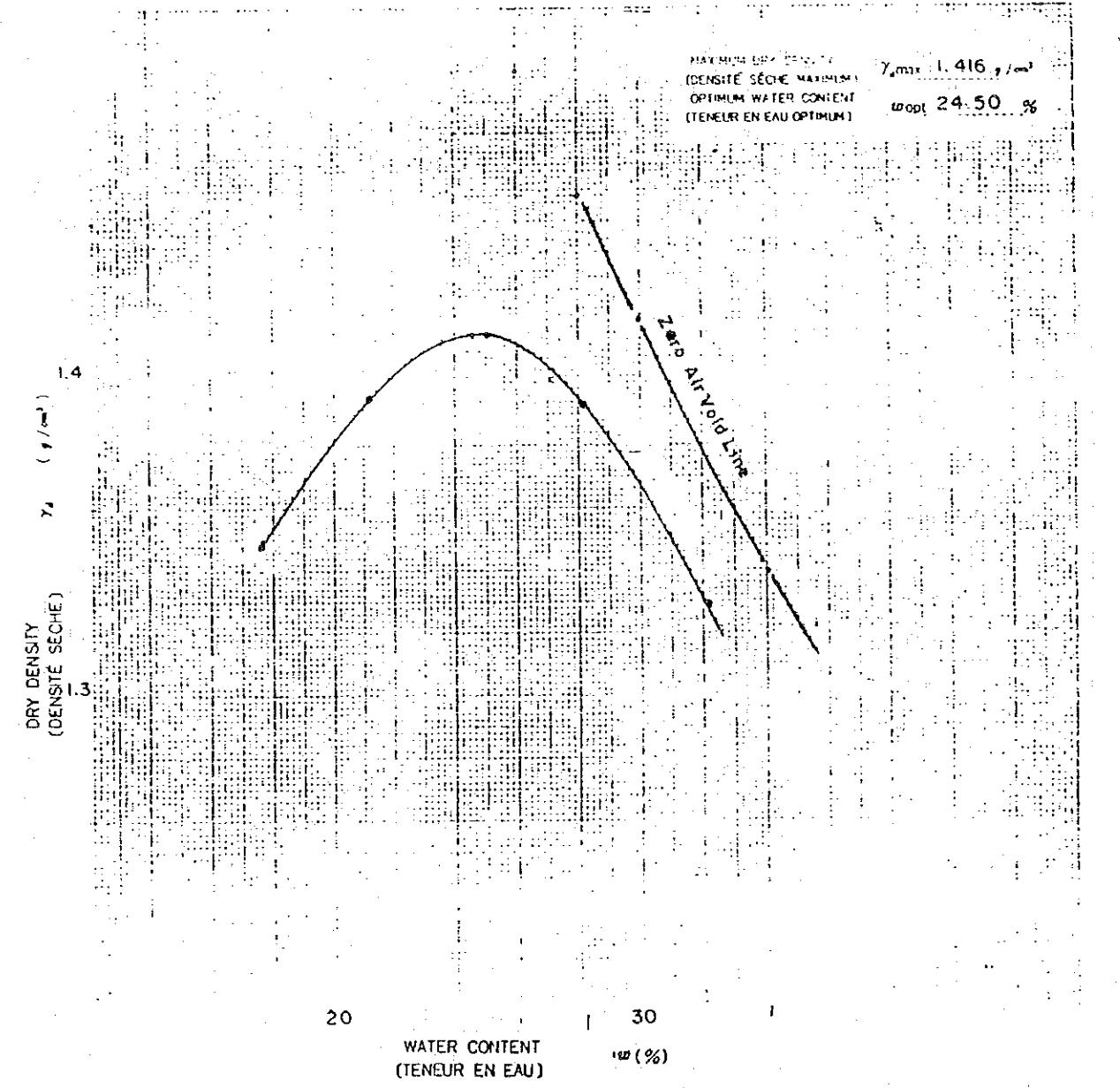
WATER CONTENT AFTER AIR DRY (TENEUR EN EAU APRÈS SÈCHAGE À L'AIR LIBRE) %

SPECIFIC GRAVITY (PODS SPÉCIFIQUE) _____

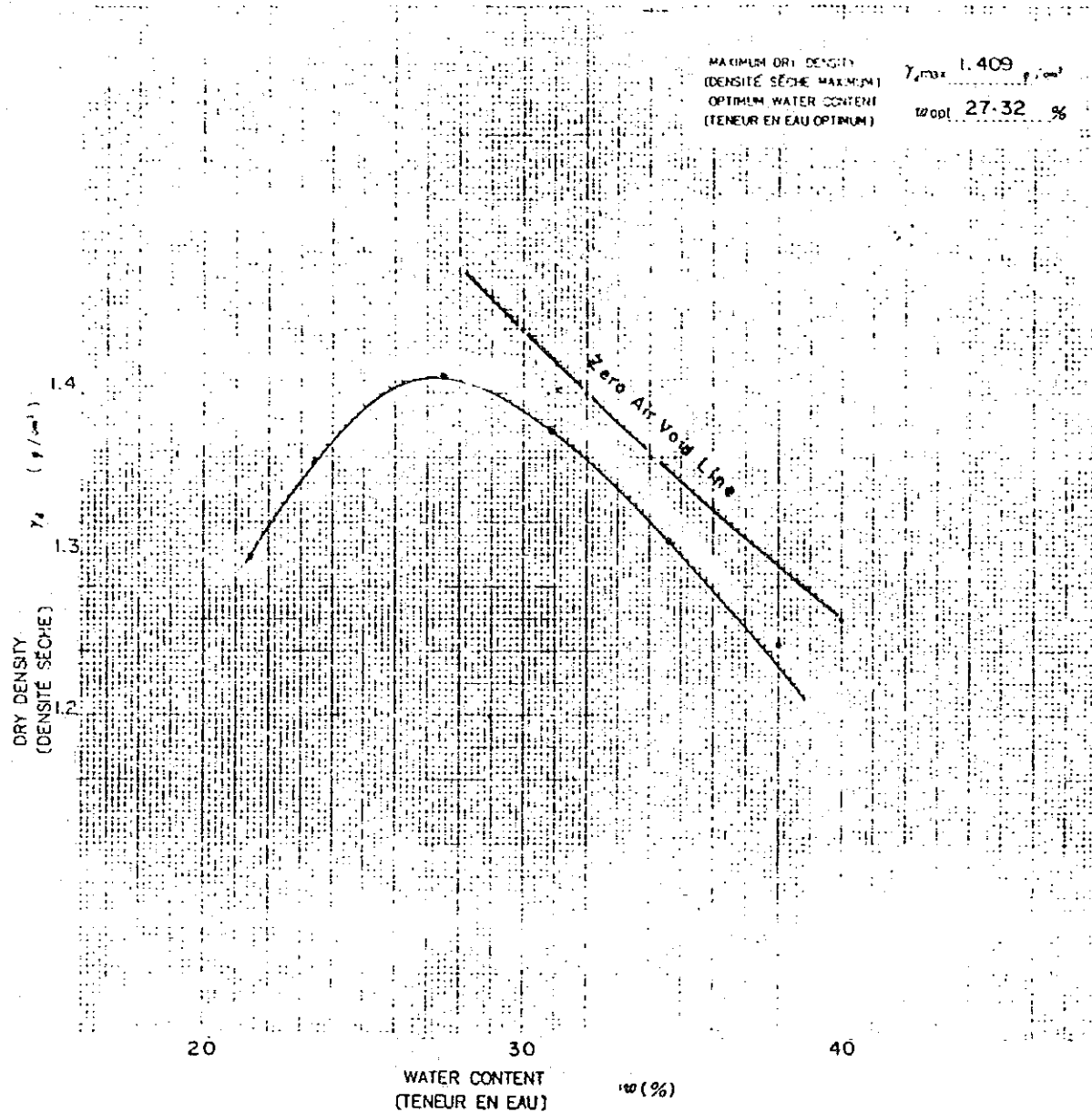
MAX. GRAIN SIZE ALLOWED (GRANULOMÉTRIE MAXIMUM ADMISE) _____

% OF MATERIAL OVER THE MAX. GRAIN SIZE ALLOWED (% DE MATÉRIAU DE GRANULOMÉTRIE SUPÉRIEURE À CELLE ADMISE) _____ %

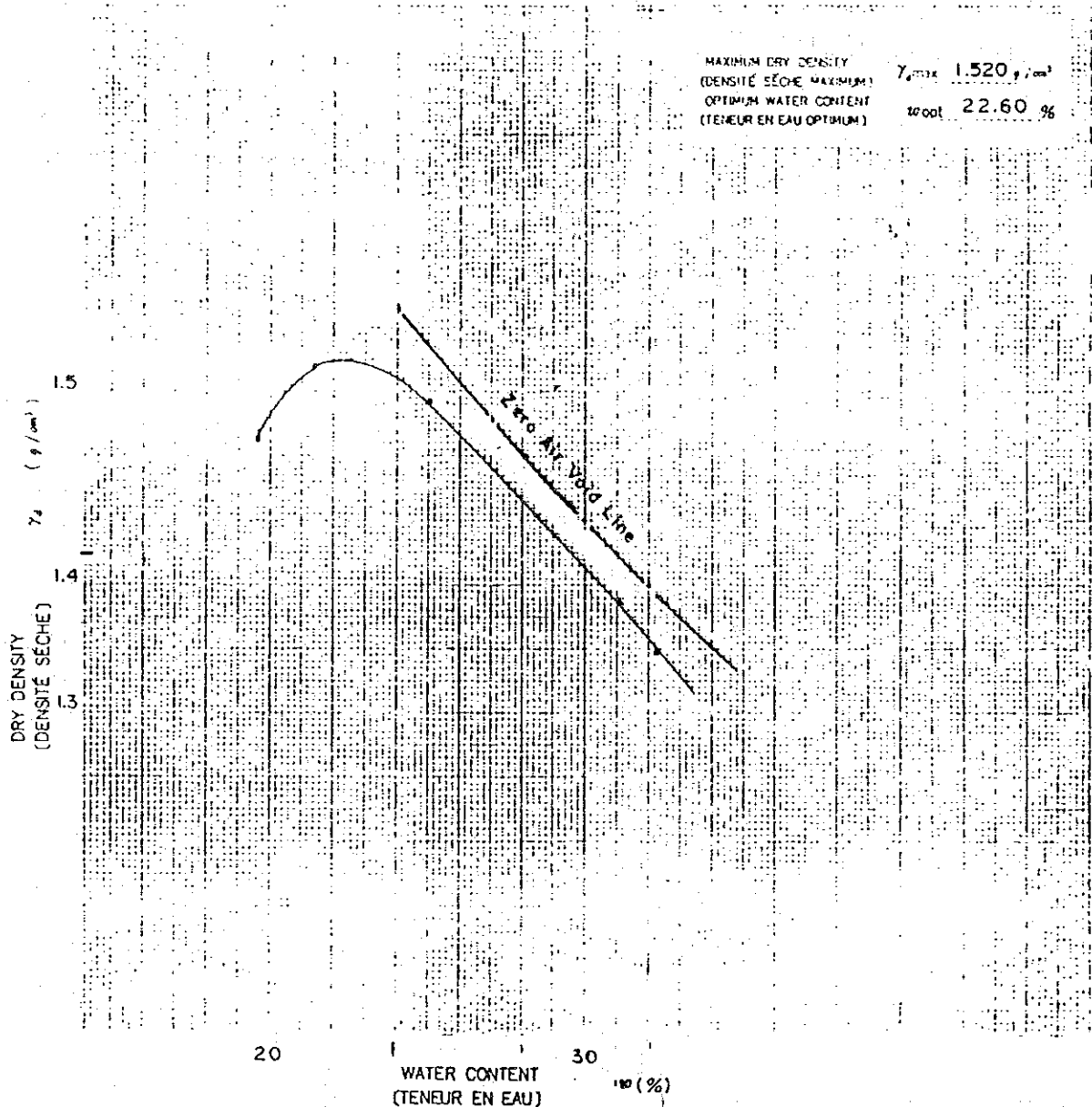
TEST NO. (N° DE L'ESSAI)	1	2	3	4	5	6	7	8
DRY DENSITY (DENSITÉ SÈCHE) γ_d (g/cm ³)								
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU) w (%)								



COMPACTION TEST (ESSAI DE COMPACTAGE)			FOR REPORTING (POUR LE RAPPORT)					
NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'INDUSTRIE ET LOCALITÉ)		CIDANAU, CIBANTEN		DATE (DATE)	Desember. 30, 1991			
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)		TPK.2 (- 3.00 m - m)		TESTED BY (ESSAI PAR)	Triyanto Effendyca.			
MOLD MOULE	No.	WEIGHT (POIDS)	1959	INSIDE DIAMETER (DIAMÈTRE INT.)	10 cm CAPACITY (CAPACITÉ) 1000 cm ³			
RAMMER (PILON)	WEIGHT (POIDS) 2.50	HEIGHT OF DROP (HAUTEUR DE CHUTE) 30	cm	BLOWS PER LAYER (NOMBRE DE COUPS POUR CHAQUE COUCHE) 3	NUMBER OF LAYERS (NOMBRE DE COUCHE) 25			
MATERIAL USED FOR SPECIMENS (MATÉRIAU CHOISI POUR DU LES SPÉCMENS)		REPROCESSING-DIFFERENT (RECONDITIONNÉ -AUTRE)	SOIL PREPARED FOR TEST (SOL PRÉPARÉ POUR L'ESSAI)		AIREDRIED-NOT DRIED (SÉCHÉ À L'AIR LIBRE-NON SÉCHÉ)			
NATURAL WATER CONTENT (TENEUR NATURELLE EN EAU) _____ %		WATER CONTENT AFTER AIR DRY (TENEUR EN EAU APRÈS SÉCHAGE À L' AIR LIBRE) _____ %		SPECIFIC GRAVITY (POIDS SPÉCFIQUE) _____				
MAX. GRAIN SIZE ALLOWED (GRANULOMÉTRIE MAXIMUM ADMISE) _____		% OF MATERIAL OVER THE MAX. GRAIN SIZE ALLOWED (% DE MATÉRIAU DE GRANULOMÉTRIE SUPÉRIEURE À CELLE ADMISE) _____		%				
TEST NO. (N° DE L' ESSAI)	1	2	3	4	5	6	7	8
DRY DENSITY (DENSITÉ SÈCHE) γ_d (g/cm ³)								
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU) w (%)								



COMPACTION TEST (ESSAI DE COMPACTAGE)				FOR REPORTING (POUR LE RAPPORT)				
NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ÉCHANTILLON ET LOCALITÉ)		CIDANAU, CIBANTÉN		DATE (DATE)	Desember, 29, 1991			
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)		TPK. 3 (- 3.00 m - m)		TESTED BY (ESSAI PAR)	Triyanto Effendy, cs			
MOULD (MOULE)	No	WEIGHT (POIDS)	1967	INSIDE DIAMETER (DIAMÈTRE INT)	10 cm			
RAMMER (PILON)	WEIGHT (POIDS)	2.50	HEIGHT OF DROP (HAUTEUR DE CHUTE)	30 cm	BLOWS PER LAYER (NOMBRE DE COUPS POUR CHAQUE COUCHE)			
				3	NUMBER OF LAYERS (NOMBRE DE COUCHE)			
MATERIAL USED FOR SPECIMENS (MATÉRIAU CHOISI POUR DU LES SPÉCIMENS)		REPROCESSING-DIFFERENT (RECONDITIONNÉ-AUTRE)		SOIL PREPARED FOR TEST (SOL PRÉPARÉ POUR L'ESSAI)	AIR DRIED-NOT DRIED (SÉCHÉ À L'AIR LIBRE-NON SÉCHÉ)			
NATURAL WATER CONTENT (TENEUR NATURELLE EN EAU) w_n %		WATER CONTENT AFTER AIR DRY (TENEUR EN EAU APRÈS SÉCHAGE À L'AIR LIBRE) %		SPECIFIC GRAVITY (POIDS SPÉCIFIQUE) _____ %				
MAX. GRAIN SIZE ALLOWED (GRANULOMÉTRIE MAXIMUM ADMISE)		% OF MATERIAL OVER THE MAX. GRAIN SIZE ALLOWED (% DE MATÉRIAU DE GRANULOMÉTRIE SUPÉRIEURE À CELLE ADMISE)		%				
TEST NO. (N° DE L'ESSAI)	1	2	3	4	5	6	7	8
DRY DENSITY (DENSITÉ SÈCHE) γ_d (g/cm ³)								
MEAN WATER CONTENT (TENEUR MOYENNE EN EAU) w (%)								



COMPACTION TEST
(ESSAI DE COMPACTAGE)

FOR REPORTING
(POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)	CIDANAU, CIBANTEN	DATE (DATE)	Desember, 30, 1991
SAMPLE NO & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK 3:2 (90:10) % (m - m)	TESTED BY (ESSAI PAR)	Triyanto Effendy cs

MOULD (MOULE)	No	WEIGHT (POIDS)	1967 g	INSIDE DIAMETER (DIAMÈTRE INT.)	10 cm	CAPACITY (CAPACITÉ)	1000 cm ³	
RAMMER (FRON)	WEIGHT (POIDS)	2.50 kg	HEIGHT OF DROP (HAUTEUR DE CHUTE)	30 cm	BLOWS PER LAYER (NOMBRE DE COUPS POUR CHAQUE COUCHE)	3	NUMBER OF LAYERS (NOMBRE DE COUCHE)	25
MATERIAL USED FOR SPECIMENS (MATÉRIAU CHOISI POUR DU LES SPÉCIMENS)		REPROCESSING-OFFERENT (RECONDITIONNÉ-AUTRE)		SOIL PREPARED FOR TEST (SOL PRÉPARÉ POUR L'ESSAI)		AIRDRIED-NOT DRIED (SÉCHÉ À L'AIR LIBRE-NON SÉCHÉ)		

NATURAL WATER CONTENT (TENEUR NATURELLE EN EAU) w _____ %

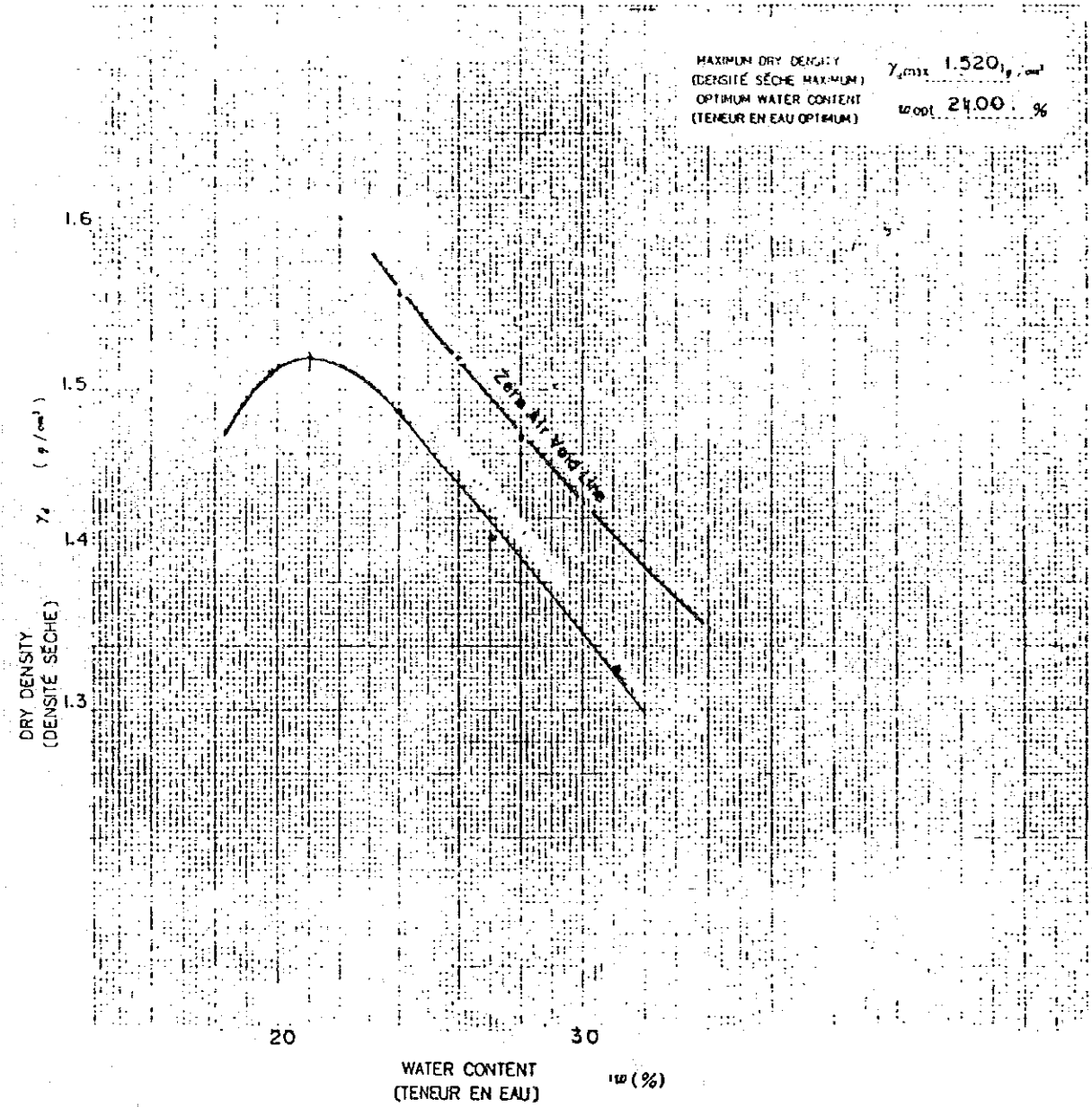
WATER CONTENT AFTER AIR DRY (TENEUR EN EAU APRÈS SÉCHAGE À L'AIR LIBRE) _____ %

SPECIFIC GRAVITY (POIDS SPÉCIFIQUE) _____

MAX. GRAIN SIZE ALLOWED (GRANULOMÉTRIE MAXIMUM ADMISE) _____ mm

% OF MATERIAL OVER THE MAX. GRAIN SIZE ALLOWED (% DE MATÉRIAU DE GRANULOMÉTRIE SUPÉRIEURE À CELLE ADMISE) _____ %

TEST NO. (N° DE L'ESSAI)	1	2	3	4	5	6	7	8
DRY DENSITY (DENSITÉ SÈCHE) γ_d (g/cm ³)								
WATER CONTENT (TENEUR EN EAU) w (%)								

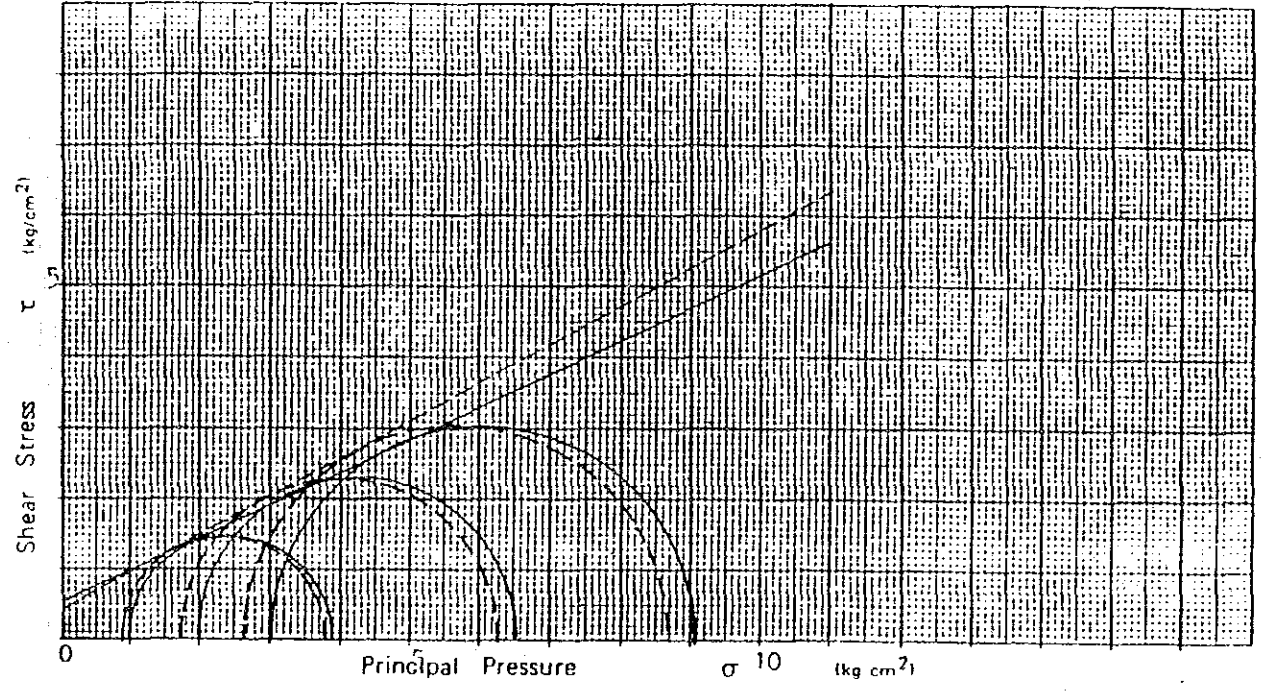
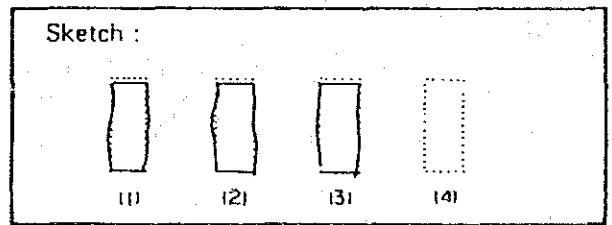


TRIAxIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3 Date January - 16 - 1992
 Sample No. TK - 1 (- 3.00)m Tested by Tri E Cs
 Sample : ~~Undisturbed~~ Disturbed Testing method : UU : CU : CU : CD
 Preconsolidation load _____ kg/cm² Shearing method ~~Stress control~~ Strain control
 Condition : 95% δd max Specific gravity G_s 2.478

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.673	1.675	1.675		
Water content	w %	25.00	24.75	24.51		
Dry density	$\gamma_d = \frac{100n}{100+w}$ g/cm ³	1.338	1.343	1.345		
Void ratio	$e = \frac{Gs \gamma_w}{\gamma} - 1$	0.846	0.840	0.836		
Degree of saturation	$S_r = w G_s / e$ %	73.04	72.81	72.41		
Lateral pressure	(σ_3) (kg/cm ²)	1	2	3		
Max. compression stress	$\sigma_1 - (\sigma_3)$ kg/cm ²	2.856	4.501	6.068		
Volume change by consolidation	$\Delta L/L$ (%)	1.22	2.72	2.83		
Pore water pressure	u kg/cm ²	0.109	0.272	0.329		
Shear strain	$\Delta V/V_s$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

	Total Stress	Effective Stress
Cohesion C kg/cm ²	0.55	0.40
Angle of internal friction ϕ	24° 28'	26° 22'
Coefficient of friction $\tan \phi$	0.455	0.540

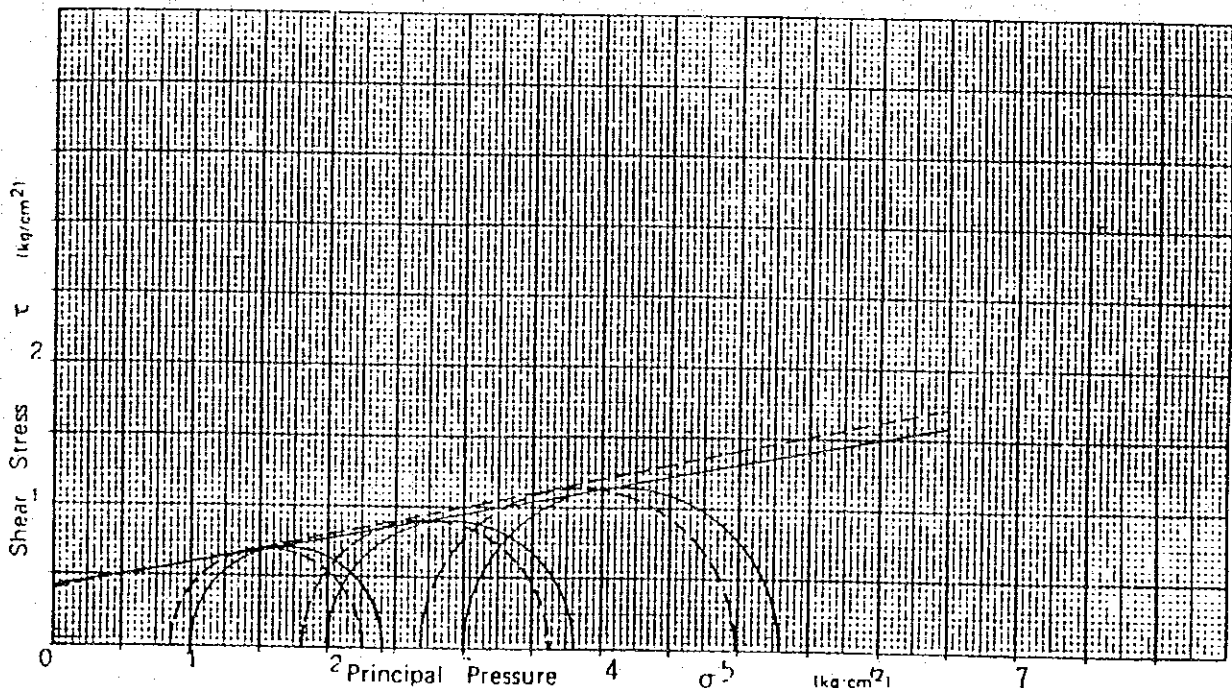
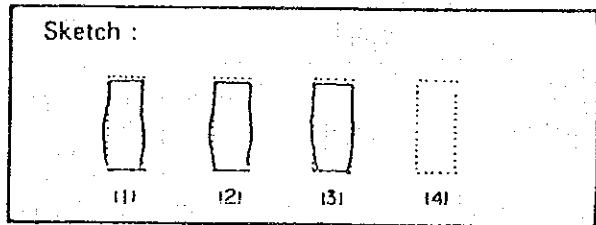


TRIAxIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3 Date January 18, 1992
 Sample No. TK - 2 (- 1.50)m Tested by Tri E Cs
 Sample : ~~Undisturbed~~ Disturbed Testing method : UU : CU : CU : CD
 Preconsolidation load _____ kg/cm² Shearing method ~~Stress control~~ Strain control
 Condition : 95% γ_d max Specific gravity G_s 2.543

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.909	1.907	1.907		
Water content	w %	16.95	17.08	17.11		
Dry density	$\gamma_d = \frac{100n}{100+w}$ g/cm ³	1.632	1.629	1.628		
Void ratio	$e = \frac{G_s w}{\gamma_d} - 1$	0.513	0.517	0.517		
Degree of saturation	$S_r = \frac{w G_s}{e}$ %	81.58	81.69	81.77		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max. compression stress	$\sigma_1 - \sigma_3$ kg/cm ²	1.408	1.778	2.280		
Volume change by consolidation	$\Delta L/L$ (%)	1.26	1.75	2.30		
Pore water pressure	u kg/cm ²	0.158	0.196	0.305		
Shear strain	$\Delta V/V_e$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

	Total Stress	Effective Stress
Cohesion C kg/cm ²	0.42	0.40
Angle of internal friction ϕ	10° 12'	11° 19'
Coefficient of friction tan ϕ	0.18	0.20

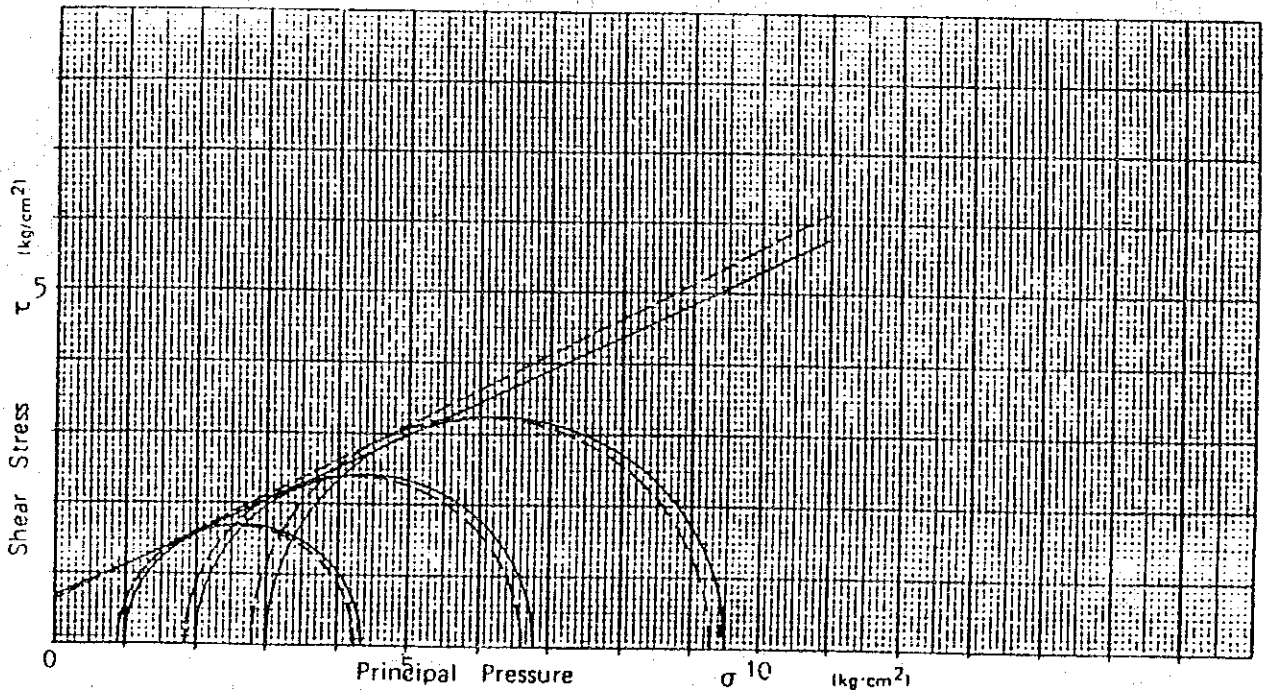
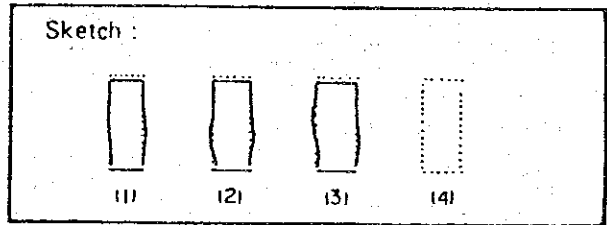


TRIAxIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3 Date January 12, 1992
 Sample No. TK - 2 (- 3.00)m Tested by Tri E Cs
 Sample : ~~Undisturbed~~ Disturbed Testing method : UU : CU : CU : CD
 Preconsolidation load _____ kg/cm² Shearing method ~~Stress control~~ Strain control
 Condition : 95% γ_d max Specific gravity G_s 2.534

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.701	1.703	1.703		
Water content	w %	27.34	27.68	27.95		
Dry density	$\gamma_d = \frac{100\gamma}{100+w}$ g/cm ³	1.336	1.334	1.331		
Void ratio	$e = \frac{Gs w}{\gamma_d} - 1$	0.849	0.852	0.856		
Degree of saturation	$S_r = wGs/e$ %	79.53	80.26	80.67		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max. compression stress	$\sigma_1 - \sigma_3$ kg/cm ²	3.293	4.791	6.534		
Volume change by consolidation	$\Delta L/L$ (%)	1.72	1.97	2.08		
Pore water pressure	u kg/cm ²	0.090	0.174	0.199		
Shear strain	$\Delta V/V_0$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

	Total Stress	Effective Stress
Cohesion c kg/cm ²	0.70	0.65
Angle of internal friction ϕ	24° 42'	26° 34'
Coefficient of friction $\tan \phi$	0.46	0.50



TRIAxIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3

Date January 19, 1992

Sample No. TKK - 3 (- 3.00)m

Tested by Tri B Cs

Sample : ~~Undisturbed~~ Disturbed

Testing method : UU : CU : CU : CD

Preconsolidation load _____ kg/cm²

Shearing method ~~Stress control~~
Strain control

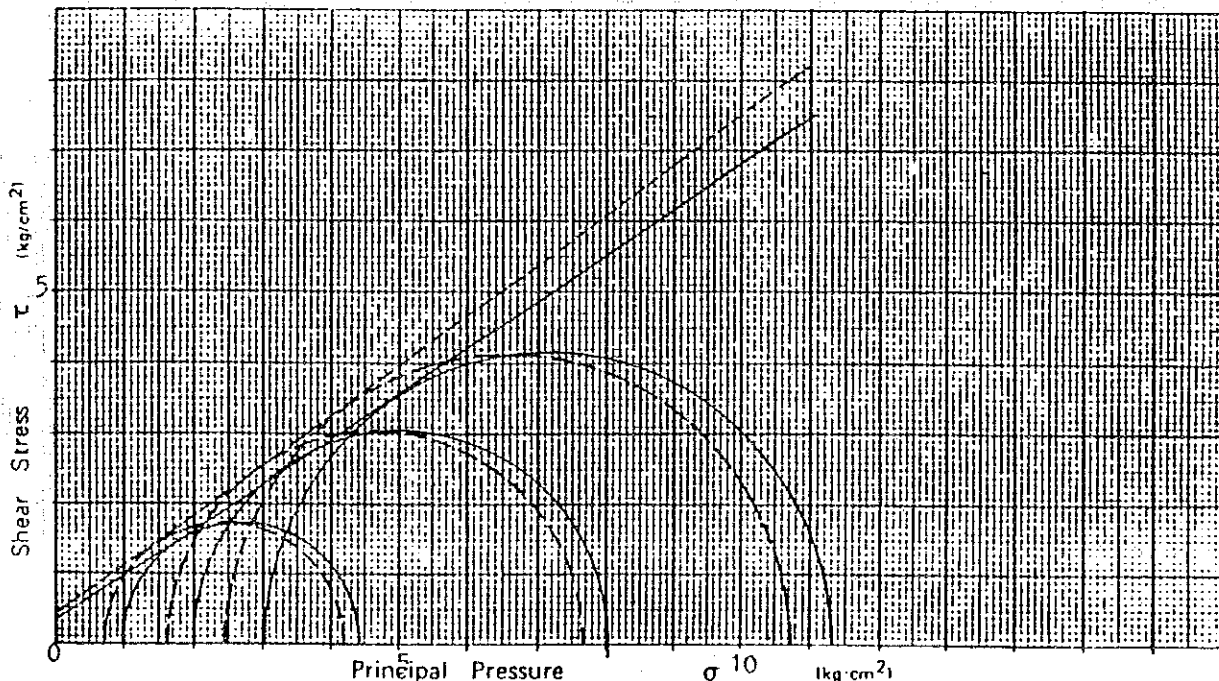
Condition : 95% γ_d max

Specific gravity G_s 2.470

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.768	1.770	1.770		
Water content	w %	22.71	22.96	22.03		
Dry density	$\gamma_d = \frac{100n}{100+w}$ g/cm ³	1.441	1.440	1.451		
Void ratio	$e = \frac{G_s w}{\gamma_d} - 1$	0.714	0.716	0.703		
Degree of saturation	$S_r = w G_s / e$ %	78.53	79.22	77.41		
Lateral pressure	(σ_3) (kg/cm ²)	1	2	3		
Max. compression stress	$\sigma_1 - \sigma_3$ kg/cm ²	3.410	6.063	9.380		
Volume change by consolidation	$\Delta L/L$ (%)	0.90	1.59	2.11		
Pore water pressure	u kg/cm ²	0.272	0.370	0.506		
Shear strain	$\Delta V/V_0$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

	Total Stress	Effective Stress
Cohesion c kg/cm ²	0.34	0.42
Angle of internal friction ϕ	32° 49'	35° 18'
Coefficient of friction $\tan \phi$	0.645	0.708

Sketch :



TRIAXIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3

Date January 14, 1992

Sample No. TK-1(-3.00):TK-2(1.50)

Tested by Tri E Cs

Sample : Undisturbed (95 : 5) %
Disturbed

Testing method : UU : CU : CU : CD

Preconsolidation load _____ kg/cm²

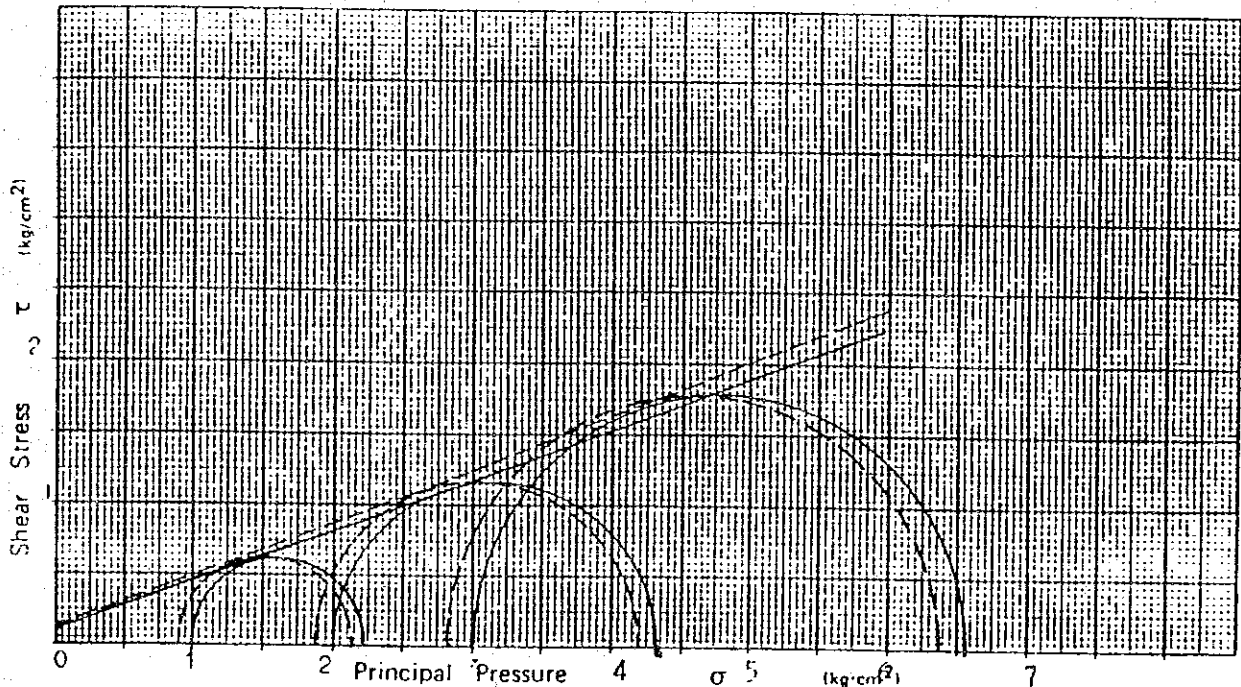
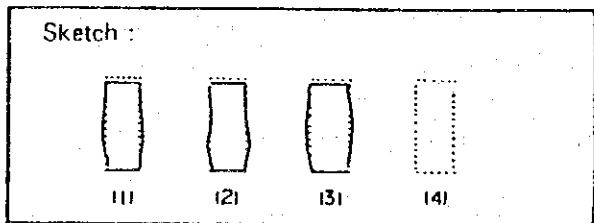
Shearing method ~~Stress control~~
Strain control

Condition : 95% γ_d max

Specific gravity G_s 2.485

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.726	1.728	1.728		
Water content	w %	23.97	24.08	24.35		
Dry density	$\gamma_d = \frac{100n}{100+w}$ g/cm ³	1.392	1.393	1.390		
Void ratio	$e = \frac{G_s \gamma_w}{\gamma_d} - 1$	0.774	0.774	0.778		
Degree of saturation	$S_r = w G_s / e$ %	76.49	76.89	77.36		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max. compression stress	$\sigma_1 - \sigma_3$ kg/cm ²	1.211	2.720	3.443		
Volume change by consolidation	$\Delta L/L$ (%)	2.36	2.66	2.85		
Pore water pressure	u kg/cm ²	0.090	0.122	0.185		
Shear strain	$\Delta V/V_e$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

	Total Stress	Effective Stress
Cohesion c kg/cm ²	0.10	0.12
Angle of internal friction ϕ	19° 48'	20° 33'
Coefficient of friction $\tan \phi$	0.36	0.375

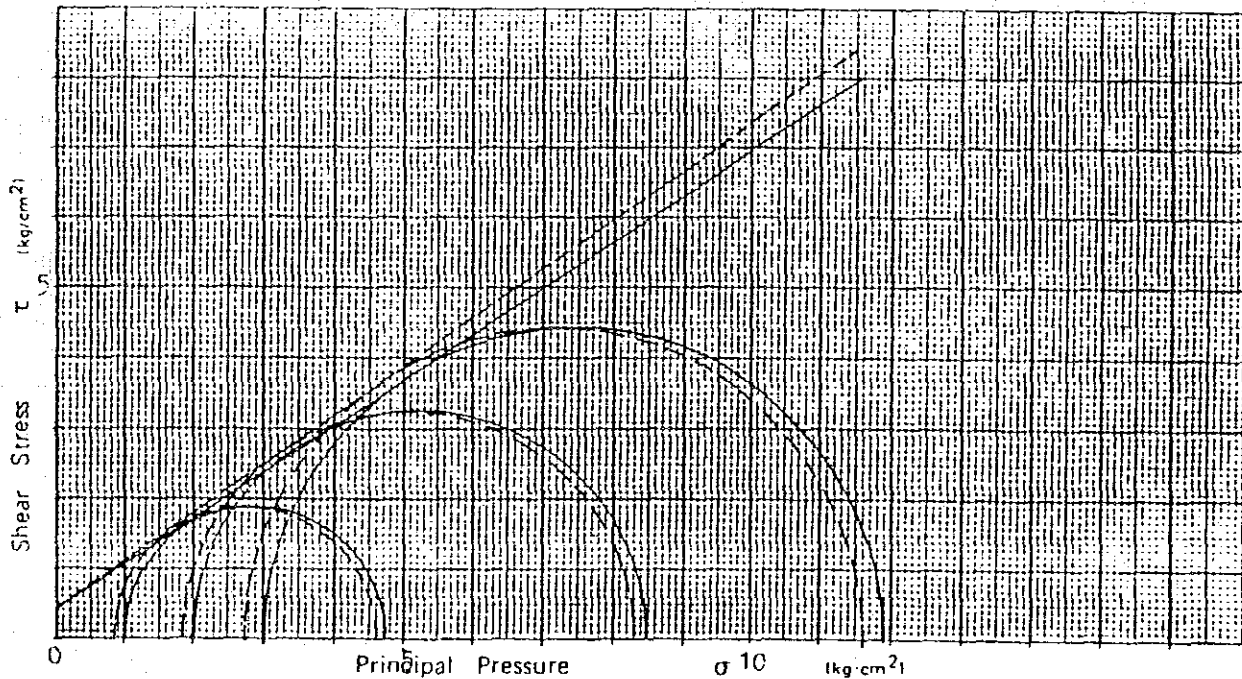
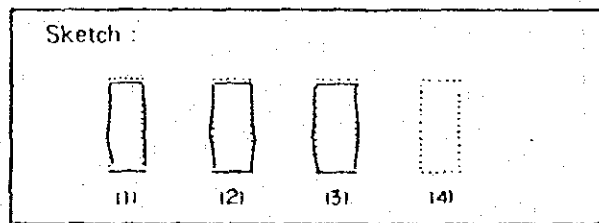


TRIAXIAL COMPRESSION TEST

Location GIDANAU / CIBANTEN 3 Date January 9, 1992
 Sample No. TK-3(-3.00):TK-2(-1.50) Tested by Tri E Cs
 Sample : Undisturbed (90 : 10)% Disturbed Testing method : UU : CU : CU : CD
 Preconsolidation load _____ kg/cm² Shearing method Stress control
 Condition : 95% S_r max Specific gravity G_s 2.496 Strain control

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.746	1.747	1.747		
Water content	w %	20.83	21.17	20.56		
Dry density	$\gamma_d = \frac{100h}{100+w}$ g/cm ³	1.445	1.442	1.449		
Void ratio	$e = \frac{G_s \gamma_w}{\gamma} - 1$	0.709	0.713	0.705		
Degree of saturation	$S_r = wG_s/e$ %	72.53	73.72	72.08		
Lateral pressure	$\bar{\sigma}_3$ (kg/cm ²)	1	2	3		
Max compression stress	$\sigma_1 - \sigma_3$ kg/cm ²	3.709	6.432	9.963		
Volume change by consolidation	$\Delta L/L$ (%)	1.07	1.49	2.78		
Pore water pressure	u kg/cm ²	0.125	0.166	0.269		
Shear strain	$\Delta V/V_e$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

	Total Stress	Effective Stress
Cohesion c kg/cm ²	0.45	0.42
Angle of internal friction ϕ	33° 1'	34° 48'
Coefficient of friction $\tan \phi$	0.65	0.695



TRIAxIAL COMPRESSION TEST

Location GIDANAU / CIBANTEN 3

Date January 8, 1992

Sample No. TPK - 1 (- 3.00)m

Tested by Tri Ef Gs

Sample : Undisturbed Disturbed

Testing method : UU : CU : CU : CD

Preconsolidation load _____ kg/cm²

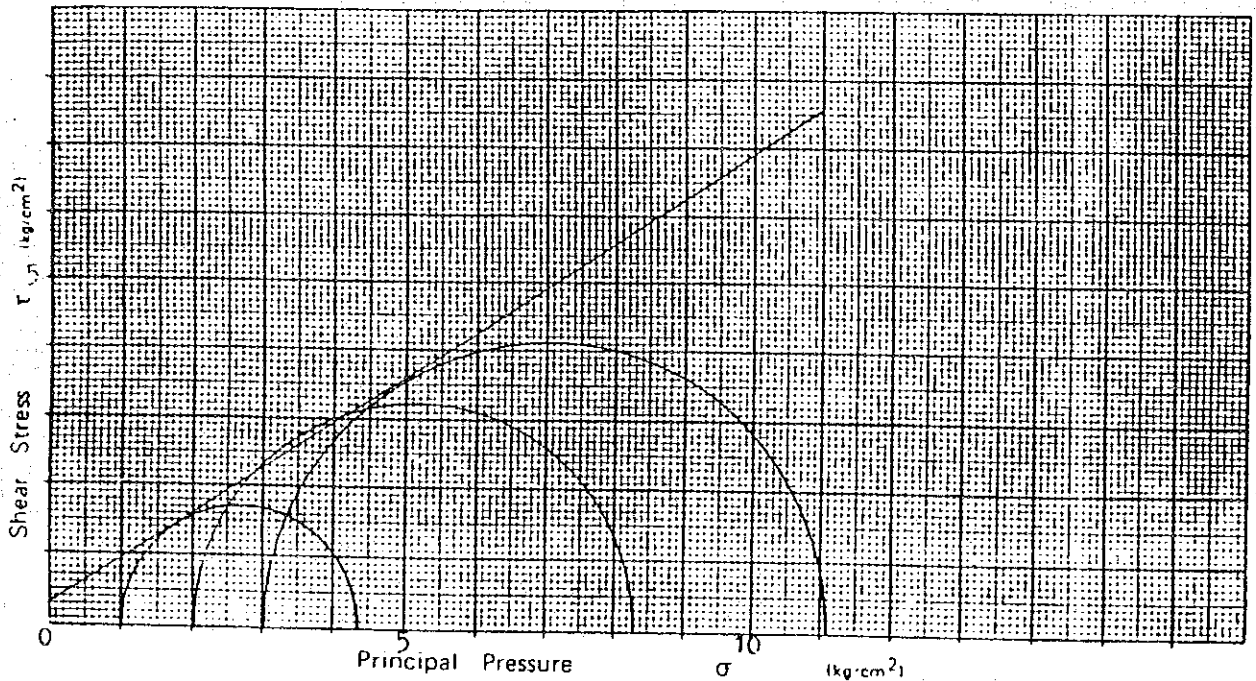
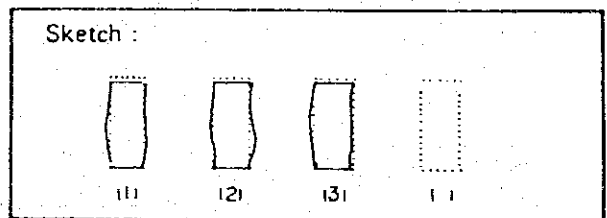
Shearing method Stress control
Strain control

Condition : 95% δ_d max

Specific gravity Gs 2.478

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.675	1.673	1.675		
Water content	w %	24.48	24.51	24.53		
Dry density	$\gamma_d = \frac{100\gamma_t}{100+w}$ g/cm ³	1.346	1.344	1.345		
Void ratio	$e = \frac{G_s \gamma_w}{\gamma_d} - 1$	0.842	0.844	0.842		
Degree of saturation	$S_r = wG_s / e$ %	72.08	71.94	72.17		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max compression stress	σ_1 (kg/cm ²)	4.344	8.303	11.134		
Volume change by consolidation	$\Delta L/L$ (%)	-	-	-		
Volume change at shearing	$\Delta V/V$ (%)	-	-	-		
Shear strain	$\Delta V/V_0$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

Result of test		
Cohesion	C kg/cm ²	0.30
Angle of internal friction	ϕ	33° 25'
Coeff. of friction	$\tan \phi$	0.66



TRIAxIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3

Date January 8, 1992

Sample No. T P K - 2 (- 1.50)_m

Tested by Tri Ef Cs

Sample : ~~Undisturbed~~ Disturbed

Testing method (UU) : CU : CU : CD

Preconsolidation load _____ kg/cm²

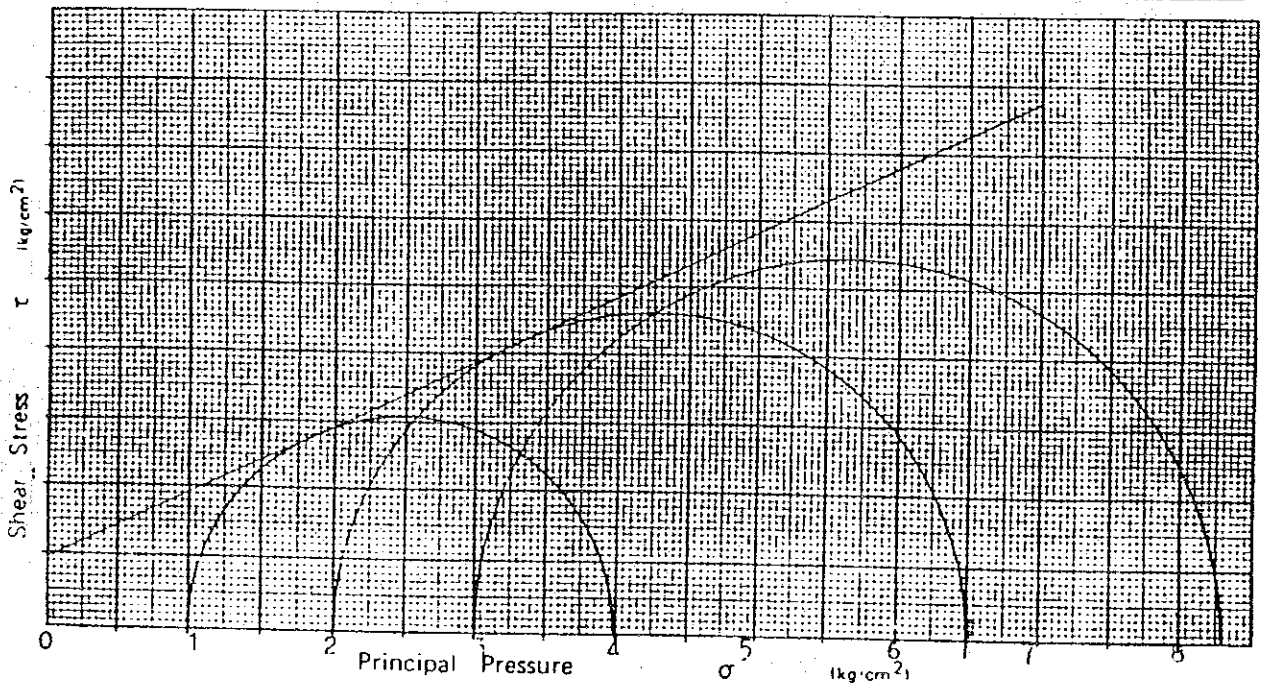
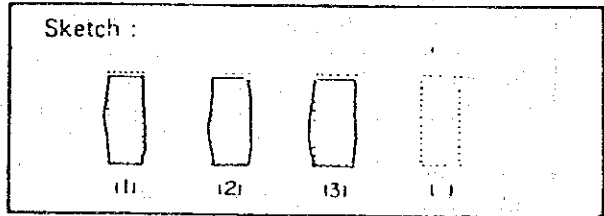
Shearing method Stress control
Strain control

Condition : 95% γ_d max

Specific gravity G_s 2.593

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.907	1.909	1.907		
Water content	w %	17.04	16.98	17.05		
Dry density	$\gamma_d = \frac{100p}{100+w}$ g/cm ³	1.629	1.632	1.624		
Void ratio	$e = \frac{G_s w}{\gamma_d} - 1$	0.591	0.589	0.592		
Degree of saturation	$S_r = w G_s / e$ %	74.71	74.76	74.74		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max. compression stress	σ_1 (kg/cm ²)	5.949	6.471	11.562		
Volume change by consolidation	$\Delta L/L$ (%)	-	-	-		
Volume change at shearing	$\Delta V/V$ (%)	-	-	-		
Shear strain	$\Delta V/V_0$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

Result of test	
Cohesion C kg/cm ²	0.48
Angle of internal friction ϕ	25° 55'
Coeff. of friction $\tan \phi$	0.486

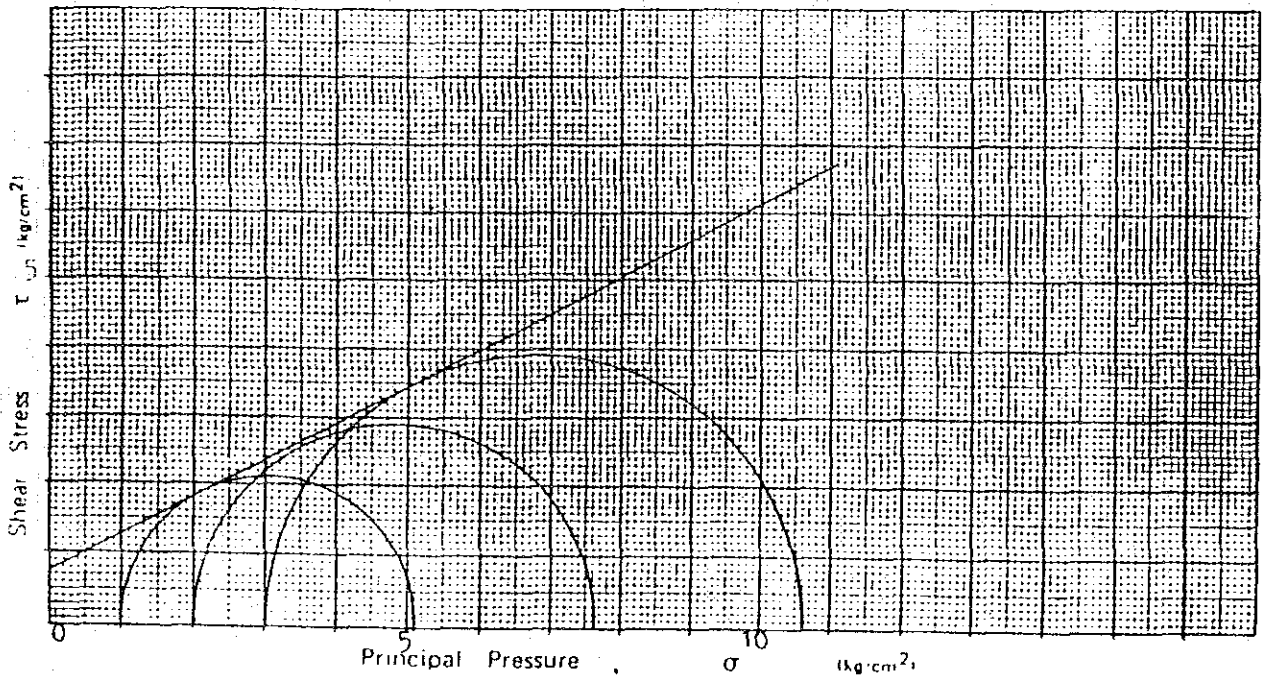
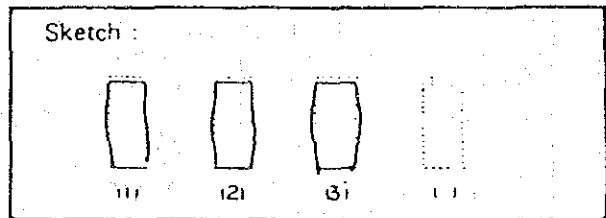


TRIAXIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3 Date January 9, 1992
 Sample No. T P K - 2 (- 3.00)m Tested by Tri Ef Cs
 Sample : Undisturbed Disturbed Testing method (UU) : CU : CU : CD
 Preconsolidation load _____ kg/cm² Shearing method Stress control
 Condition : 95% γ_d max Specific gravity Gs 2.534 Strain control

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_w = \frac{W}{V}$ g/cm ³	1.703	1.703	1.701		
Water content	w %	27.30	27.34	27.35		
Dry density	$\gamma_d = \frac{100 \gamma_w}{100 + w}$ g/cm ³	1.338	1.337	1.336		
Void ratio	$e = \frac{G_s \gamma_w}{\gamma_d} - 1$	0.894	0.805	0.891		
Degree of saturation	$S_r = w G_s / e$ %	77.37	77.43	77.25		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max compression stress	σ_1 (kg/cm ²)	4.241	8.893	11.704		
Volume change by consolidation	$\Delta L/L$ (%)	-	-	-		
Volume change at shearing	$\Delta V/V$ (%)	-	-	-		
Shear strain	$\Delta V/V_s$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

Result of test		
Cohesion	C kg cm ²	0.74
Angle of internal friction	ϕ	28° 22'
Coeff. of friction	$\tan \phi$	0.54

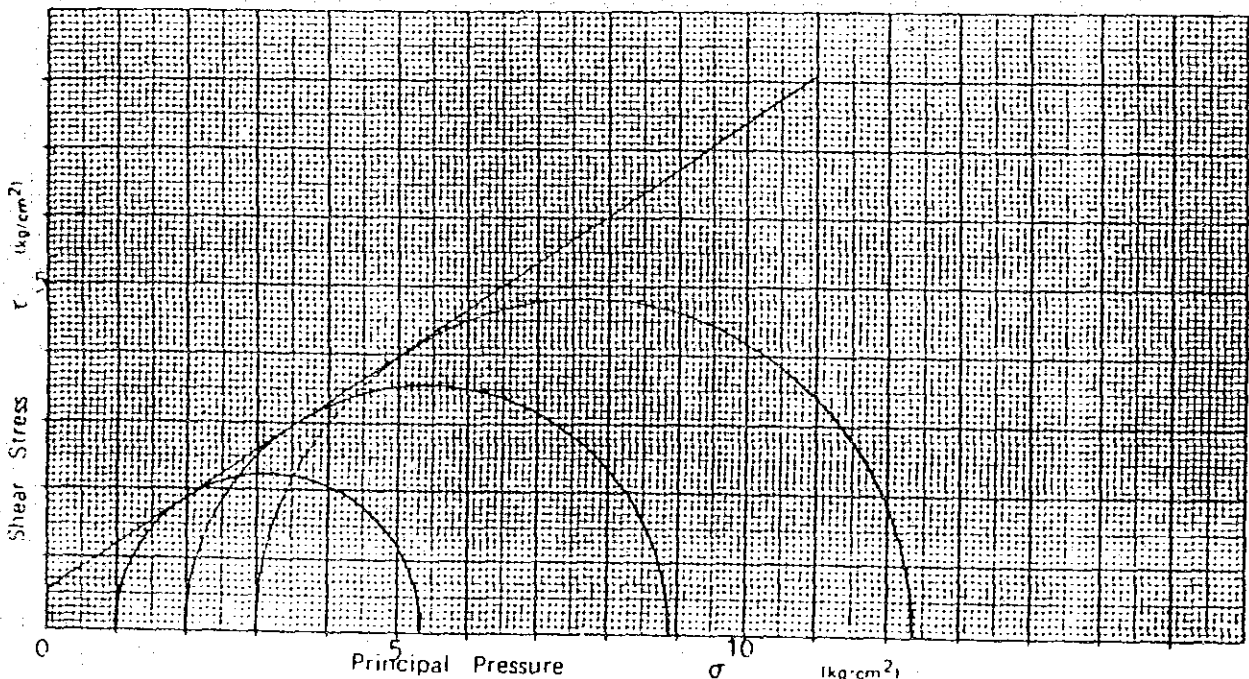
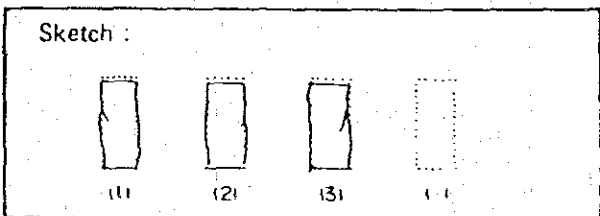


TRIAXIAL COMPRESSION TEST

Location CIDANAU / GIBANTEN 3 Date January 8, 1992
 Sample No. T P K - 3 (- 3.00)m Tested by Tri Ef Cs
 Sample : Undisturbed Disturbed Testing method : UU : CU : CU : CD
 Preconsolidation load _____ kg/cm² Shearing method Stress control
 Condition : 95% γ_d max Specific gravity Gs 2.470
 Shearing method Strain control

Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_w = \frac{W}{V}$ g/cm ³	1.770	1.768	1.770		
Water content	w %	22.53	22.62	22.55		
Dry density	$\gamma_d = \frac{100 \rho}{100 + w}$ g/cm ³	1.445	1.442	1.444		
Void ratio	$e = \frac{G_s \gamma_w}{\gamma_d} - 1$	0.710	0.713	0.710		
Degree of saturation	$S_r = w G_s / e$ %	78.39	78.39	78.43		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max. compression stress	σ_1 (kg/cm ²)	5.281	8.350	12.323		
Volume change by consolidation	$\Delta L/L$ (%)	-	-	-		
Volume change at shearing	$\Delta V/V$ (%)	-	-	-		
Shear strain	$\Delta V/V_e$ (%)	-	-	-		
Rate of shear	mm/min.	1	1	1		

Result of test		
Cohesion	C kg/cm ²	0.53
Angle of internal friction	ϕ	34° 24'
Coeff. of friction	$\tan \phi$	0.685



TRIAXIAL COMPRESSION TEST

Location CIDANAU / CIBANTEN 3

Date January 7, 1992

Sample No. TIK 3 (-3.00) : TIK 2 (-1.50)

Tested by Tri Ef Cs

Sample : ~~Undisturbed~~ Disturbed
(90 : 10)%

Testing method : UU : CU : CU : CD

Preconsolidation load _____ kg/cm²

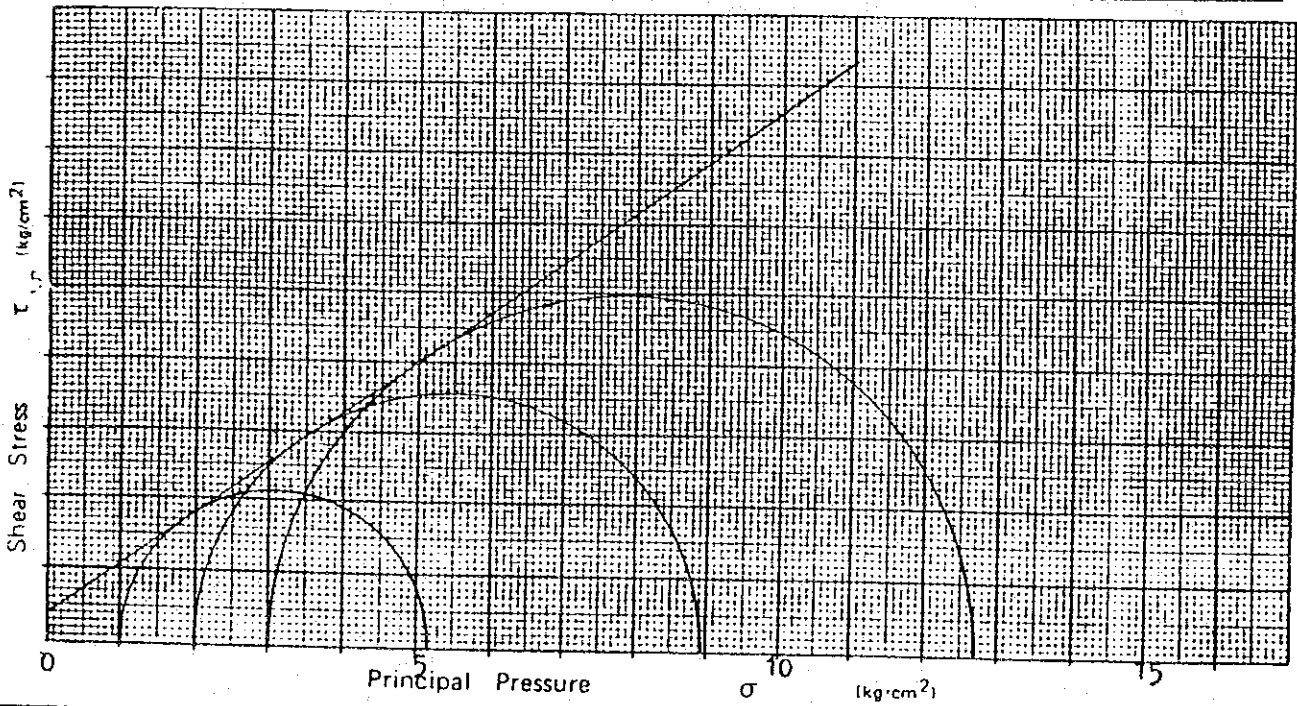
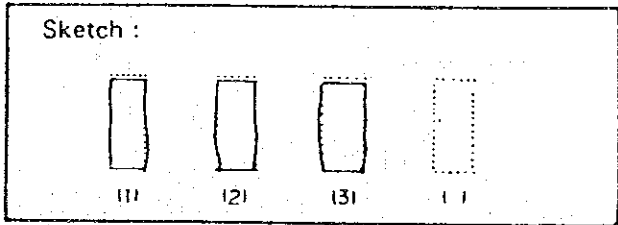
Shearing method : ~~Stress control~~
Strain control

Condition : 95% δ_d max

Specific gravity Gs 2.496

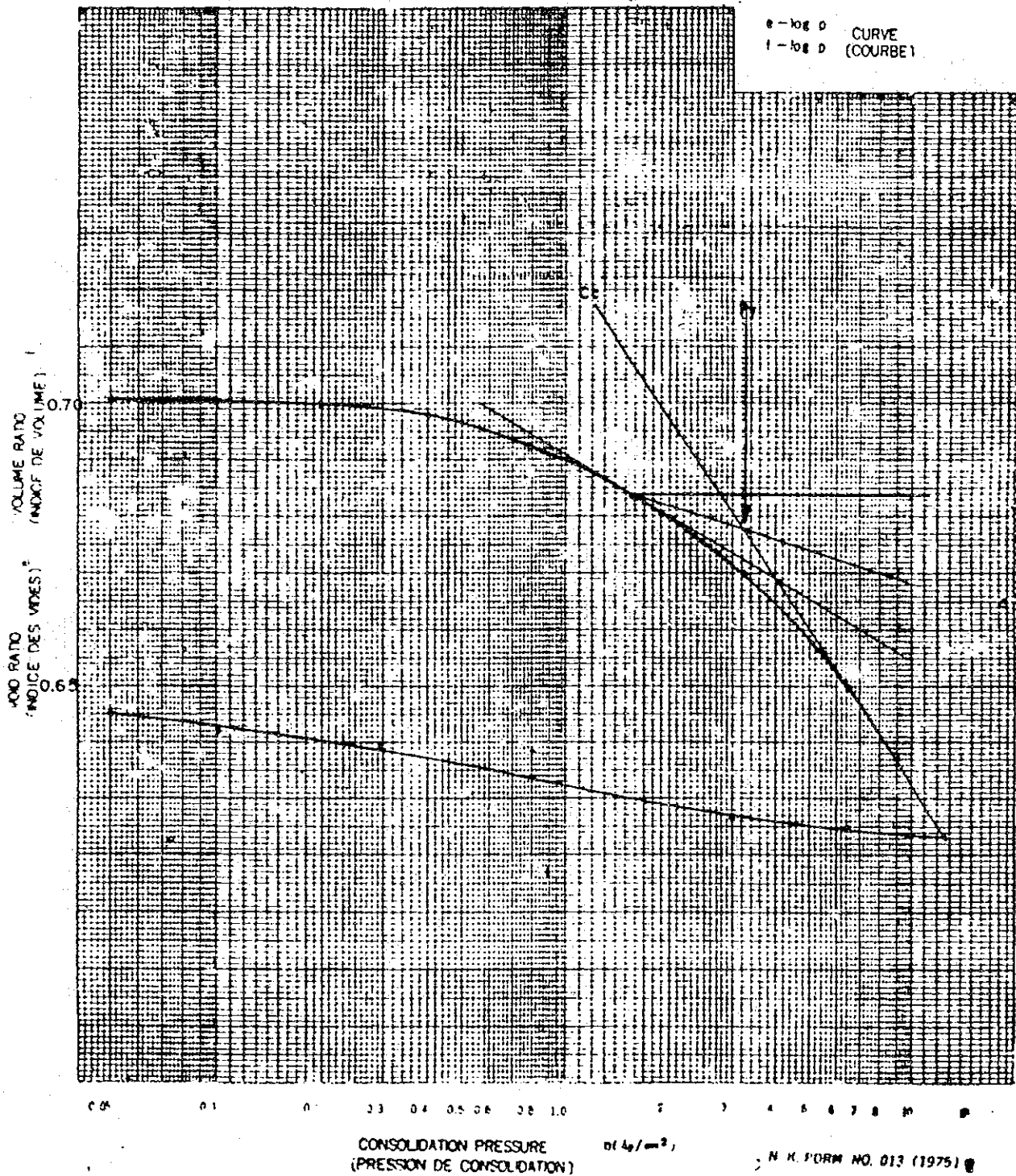
Test piece No.		(1)	(2)	(3)	(4)	(5)
Initial height	cm	12.5	12.5	12.5		
Diameter	cm	5.0	5.0	5.0		
Wet density	$\gamma_t = \frac{W}{V}$ g/cm ³	1.747	1.746	1.747		
Water content	w %	20.97	21.04	20.96		
Dry density	$\gamma_d = \frac{100 \gamma_t}{100 + w}$ g/cm ³	1.444	1.443	1.444		
Void ratio	$e = \frac{G_s \gamma_w}{\gamma_t} - 1$	0.728	0.730	0.728		
Degree of saturation	$S_r = w G_s / e$ %	71.86	71.91	71.84		
Lateral pressure	σ_3 (kg/cm ²)	1	2	3		
Max. compression stress	σ_1 (kg/cm ²)	5.105	8.893	12.704		
Volume change by consolidation	$\Delta L/L$ (%)	-	-	-		
Volume change at shearing	$\Delta V/V$ (%)	-	-	-		
Shear strain	$\Delta V/V_e$ (%)	-	-	-		
Rate of shear	mm/min	1	1	1		

Result of test		
Cohesion	C kg/cm ²	0.40
Angle of internal friction	ϕ	35° 45'
Coeff. of friction	$\tan \phi$	0.72



CONSOLIDATION TEST (ESSAI DE CONSOLIDATION)		(e - log P CURVE (1 - log P (COURBE)))		FOR REPORTING (POUR LE RAPPORT)
NAME OF SURVEY & LOCALITY (DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)	CIDANAU / CIBANTEN 3	DATE (DATE)	January 20, 1992	
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)	TPK - 3 (-3.00m - m.)	TESTED BY (ESSAI PAR)	Soelomo	
ALREADY TESTED OR DISTURBED (IMPACTÉ OU DÉTRIMÉ)	# CLASSIFICATION (CLASSIFICATION)	# SPECIFIC GRAVITY Gs (POIDS SPÉCIFIQUE)	# LIQUID LIMIT (LIMIT DE LIQUIDITÉ)	# INITIAL DIMENSION OF SPECIMEN (DIMENSION INITIALE DU SPÉCIMEN)
95% δd max		2.470		HEIGHT (HAUTEUR) (cm) 2.00 DIAMETER (DIAMÈTRE) (cm) 6.00
# INITIAL WATER CONTENT w, % (TENEUR EN EAU INITIALE)	# INITIAL VOLUME RATIO (INDICE DE VOLUME INITIAL)	# INITIAL VOID RATIO (INDICE DES VIDES INITIAL)	# DEGREE OF INITIAL SATURATION S _i , % (DEGRÉ DE SATURATION INITIALE)	# COMPRESSION INDEX (INDICE DE COMPRESSION)
22.60		0.712	78.4	0.112
				# YIELD STRESS OF COAGULATION (LIMITE D'ÉLASTICITÉ DE CONSOLIDATION)
				3.2

* THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED.
(LES ENREGISTREMENTS NE SONT PAS NÉCESSAIRES QUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE)

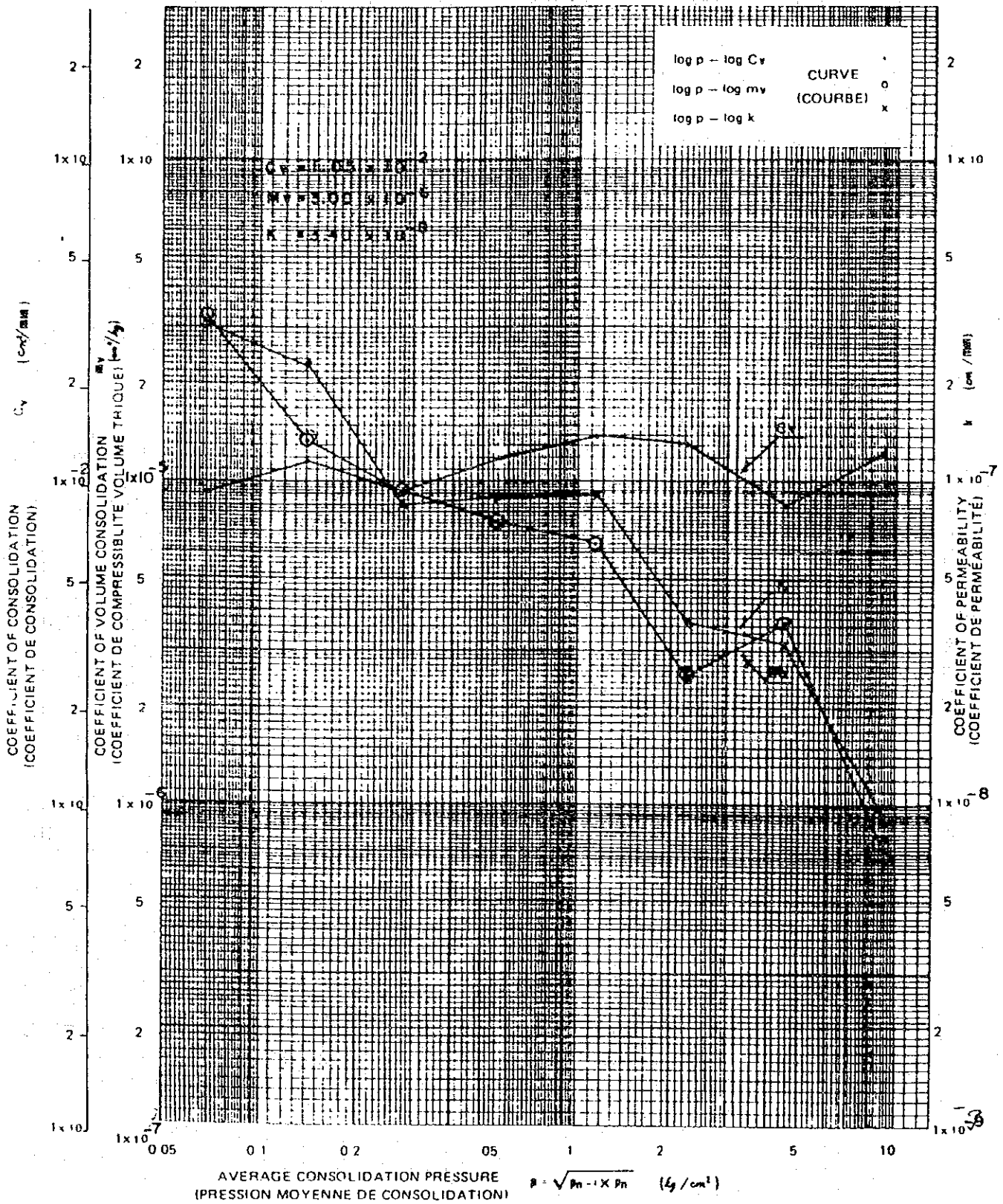


**CONSOLIDATION TEST
(ESSAI DE CONSOLIDATION)**

P - C_v, m_v, k
(COURBE)

FOR REPORTING
(POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY (DÉHOMINATION DE L'ENQUÊTE ET LOCALITÉ)	CIDANAU / CIBANTEN 3	DATE (DATE)	January 8, 1992
SAMPLE NO & DEPTH (IN DE L'ÉCHANTILLON ET PROFONDEUR)	TPK - 3 (-3.00 m ~ m)	TESTED BY (ESSAI PAR)	S o e t o m o



PT INDR KARYA
Consulting Engineers

**CONSOLIDATION TEST
(ESSAI DE CONSOLIDATION)**

P - Cv, mv, k
CURVE
(COURBE)

FOR REPORTING
(POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY
(DÉNOMINATION DE L'ENQUÊTE ET LOCALITÉ)

CIDANAU / CIBANTEN 3

DATE
(DATE)

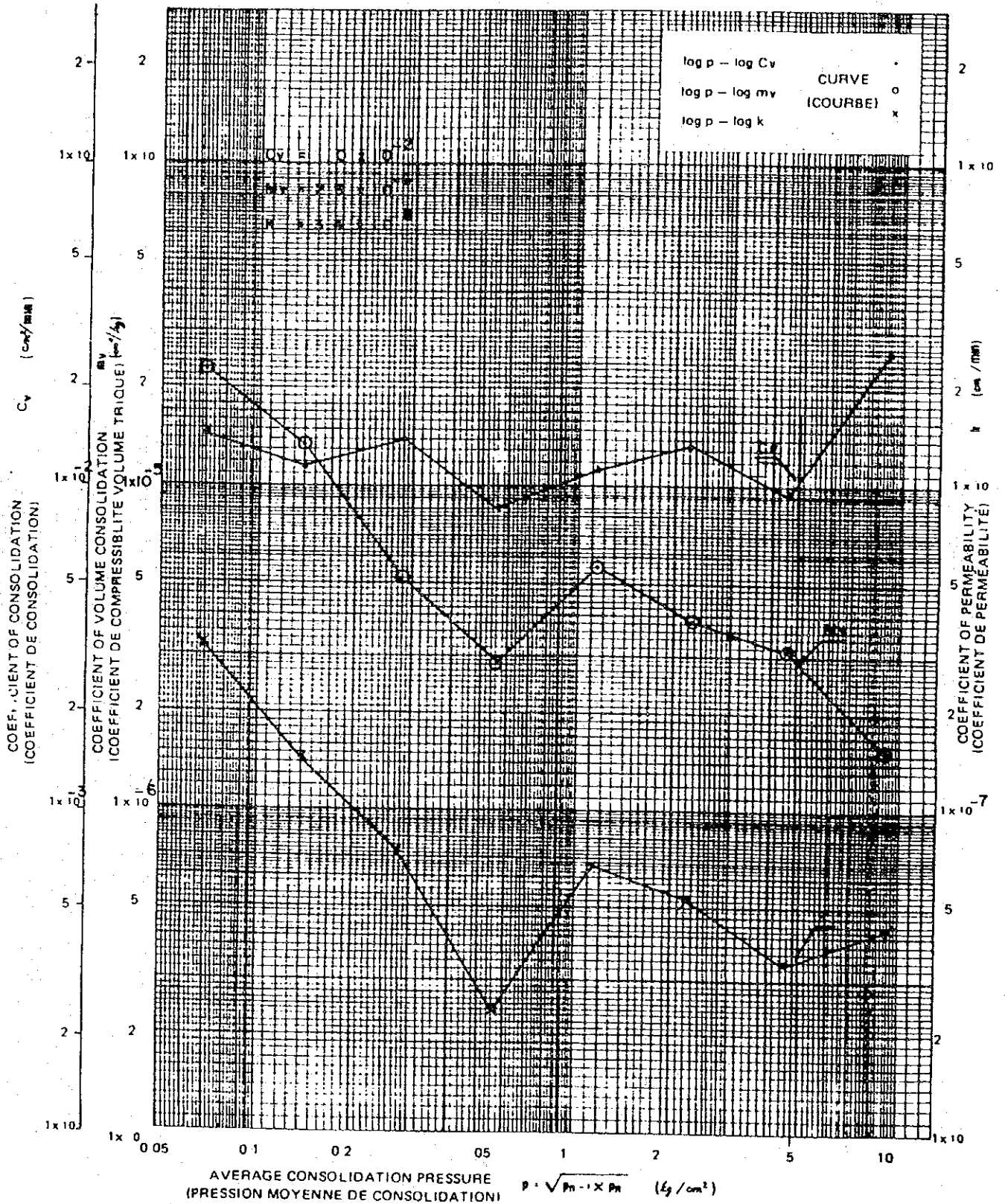
January 8, 1992

SAMPLE NO & DEPTH
(IN DE L'ÉCHANTILLON ET PROFONDEUR)

TPK-1(-3.00):TPK-2(-1.50)=(95:5) %

TESTED BY
(ESSAI PAR)

Soelomo



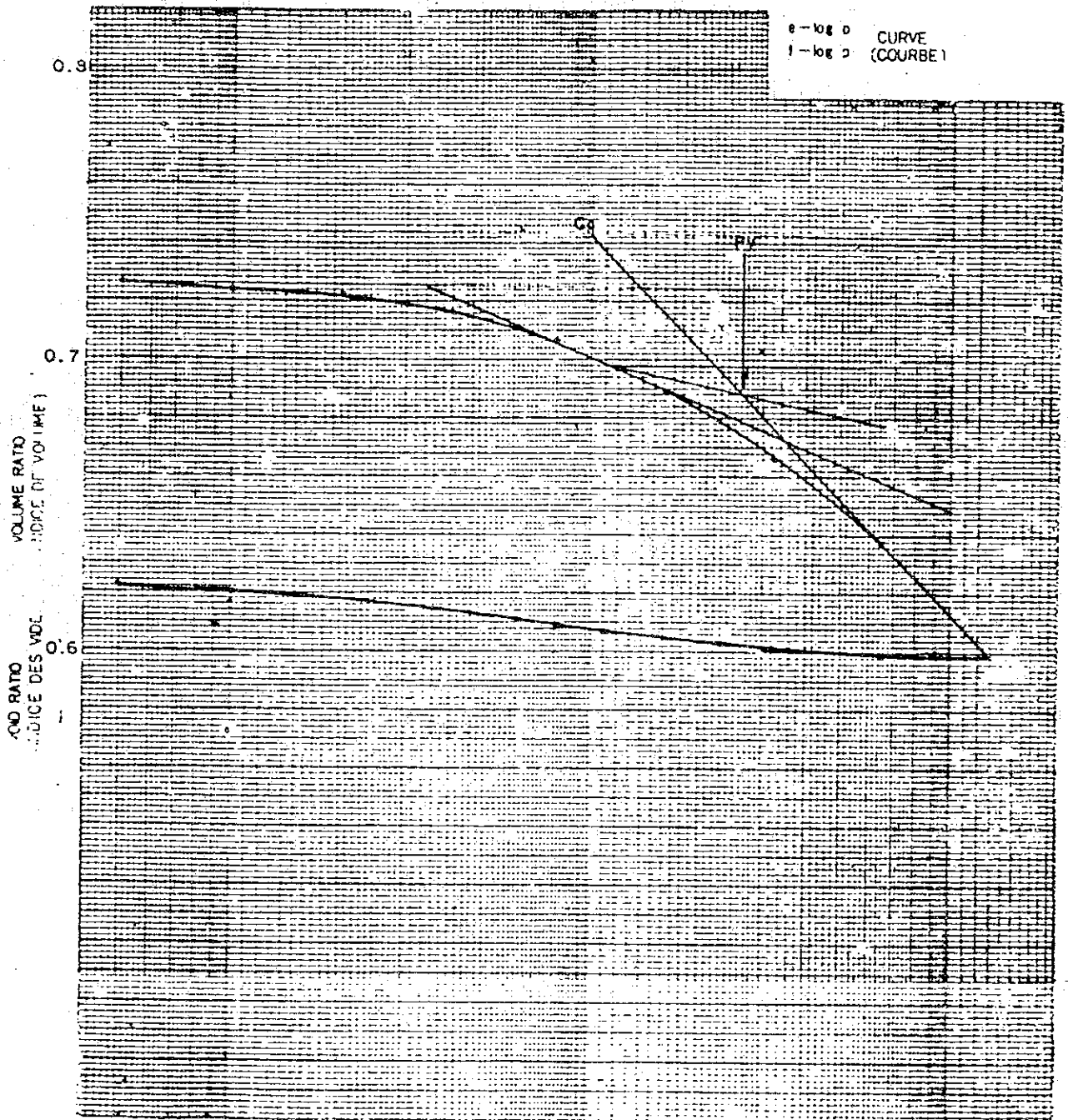
CONSOLIDATION TEST
(ESSAI DE CONSOLIDATION)

(e-log P CURVE)
(1-log P (COURBE))

FOR REPORTING
POUR LE RAPPORT

NAME OF SURVEY & LOCALITY (DÉSIGNATION DE LA QUANTITÉ ET LOCALITÉ)		CIDANAU / CIBANTEN 3		DATE (DATE)	January 8, 1992
SAMPLE NO. & DEPTH (N° DE L'ÉCHANTILLON ET PROFONDEUR)		TPK-3(-3.00); TPK-2(-1.50) (90:10)%		TESTED BY (ESSAI PAR)	Sootomo
# UNDISTURBED OR DISTURBED (INTACT OU REMANIÉ)	# CLASSIFICATION (CLASSIFICATION)	# SPECIFIC GRAVITY (POIDS SPÉCIFIQUE)	# LIQUID LIMIT (LIMIT DE LIQUIDITÉ)	# INITIAL DIMENSION OF SPECIMEN (DIMENSION INITIALE DU SPÉCIMEN)	
				HEIGHT (HAUTEUR)	DIAMETER (DIAMÈTRE)
95% Y_d max		2.496		2.00	6.00
# INITIAL WATER CONTENT w_p (%) (TENEUR EN EAU INITIALE)	# INITIAL VOLUME RATIO (INDICE DE VOLUME) INITIAL	# INITIAL VOID RATIO (INDICE DES VIDES) INITIAL	# DEGREE OF INITIAL SATURATION S_{at} (%) (DEGRÉ DE SATURATION) INITIALE	COMPRESSION INDEX (INDICE DE COMPRESSION)	YIELD STRESS OF CONSOLIDATION (LIMITE D'ÉLASTICITÉ DE CONSOLIDATION)
21.00		0.729	71.9	0.128	2.6

THE RECORDING IS NOT NECESSARY IN THE CASE THAT CALCULATION DATA SHEET IS APPENDED.
LE GRAPHIQUE NE FIGURE PAS QUAND LA FEUILLE DES CALCULS DÉTAILLÉS EST ANNEXÉE.



**CONSOLIDATION TEST
(ESSAI DE CONSOLIDATION)**

P - Cv, mv, k
(CURVE)
(COURBE)

FOR REPORTING
(POUR LE RAPPORT)

NAME OF SURVEY & LOCALITY
(DÉNOMINATION DE L'ÉPROUÈTE ET LOCALITÉ)

CIDANAU / CIBANTEN 3

DATE
(DATE)

January 8, 1992

SAMPLE NO & DEPTH
(N° DE L'ÉCHANTILLON ET PROFONDEUR)

TPK-3(-3.00) : TPK-2(-1.50) = (90:10)%

TESTED BY
(ESSAI PAR)

Soetomô

