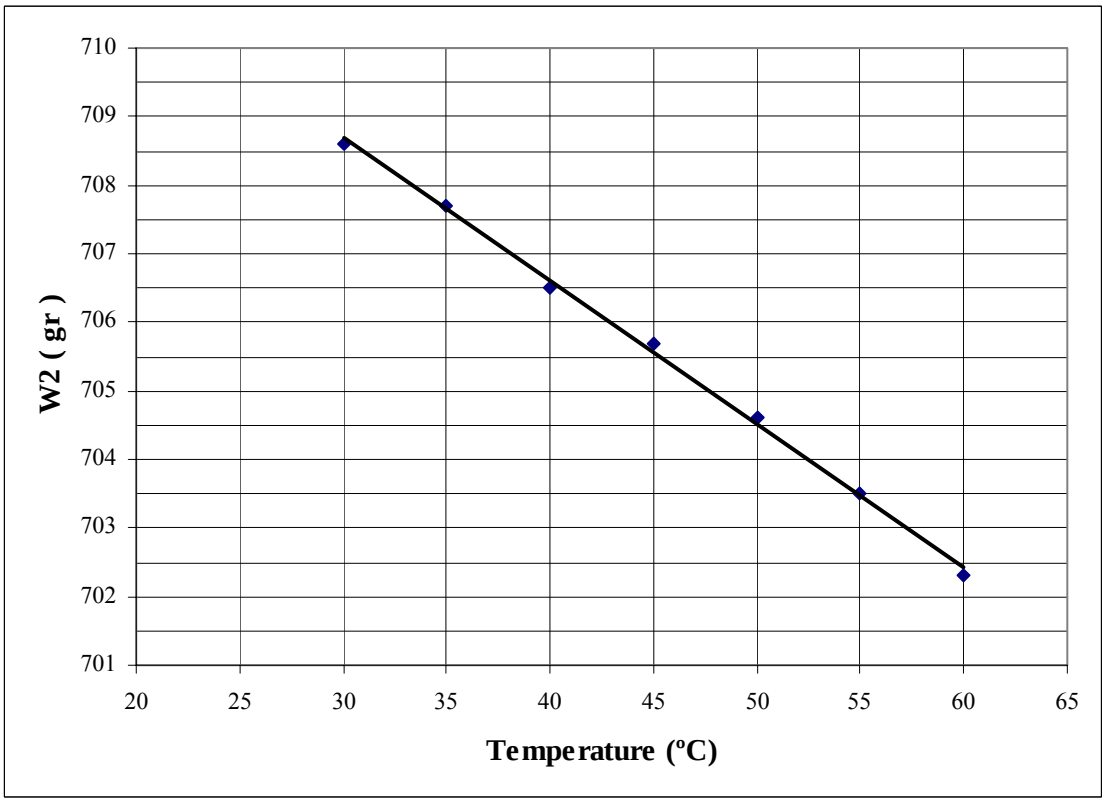
Lampiran 1 : Data Penelitian *Erlenmeyer Calibration.*

ERLENMEYER CALIBRATION

Erlenmeyer Data	Form No. : I.3 / 2-3
Erlenmeyer No. : 5	Test No. : 1
Wt. of bottle ; Wb : 187,3 gr	Date : 25 April 2005
	Tested by : Ganda Remarto Sinaga

Determination		1	2	3	4	5
Wt. Bottle+water	; W2 (gr)	702,3	703,5	704,6	705,7	706,5
Temperature	; T (ºC)	60	55	50	45	40

Determination		6	7	8	9	10
Wt. Bottle+water	; W2 (gr)	707,7	708,6			
Temperature	; T (ºC)	35	30			



Lampiran 2 : Data Penelitian *Specific Gravity Test* Pasir Murni.

SPECIFIC GRAVITY TEST

Soil sample	: Pasir coklat kekuning-kuningan	Form No.	: I.3 / 3-3
	:	Test No.	: 1
Location	: Padalarang	Date	: 25 April 2005
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 1		

Determination		1	2	3	4	5
Wt. bottle + water + soil	; W1 (grf)	755,2	756,3	757,4	758,4	759,4
Temperature	; T (ºC)	60	55	50	45	40
Wt. bottle + water	; W2 (grf)	702,3	703,5	704,6	705,7	706,7
Spec. gravity of water at T	; GT	0,9832	0,9857	0,9881	0,9902	0,9922
Spec. gravity of soil	; Gs	2,66	2,66	2,67	2,66	2,67

Determination		6	7	8	9	10
Wt. bottle + water + soil	; W1 (grf)	760,4	761,1			
Temperature	; T (ºC)	35	30			
Wt. bottle + water	; W2 (grf)	707,7	708,6			
Spec. gravity of water at T	; GT	0,9941	0,9957			
Spec. gravity of soil	; Gs	2,67	2,66			

Wt. of dish + dry soil	(grf)	282,5
Wt. of dish	(grf)	198,6
Wt. of dry soil	; Ws (grf)	83,9

$$Gs = \frac{W_s * G_T}{W_2 - W_1 + W_S}$$

AVERAGE VALUE Gs = <u>2,66</u>

Lampiran 3 : Data Penelitian *Specific Gravity Test* Abu Batu Murni.

SPECIFIC GRAVITY TEST

Soil sample	: Abu batu	Form No.	: I.3 / 3-3
	:	Test No.	: 1
Location	: Padalarang	Date	: 25 April 2005
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 2		

Determination		1	2	3	4	5
Wt. bottle + water + soil	; W1 (grf)	756,9	758,1	759,0	760,2	760,9
Temperature	; T (ºC)	60	55	50	45	40
Wt. bottle + water	; W2 (grf)	702,3	703,5	704,6	705,7	706,7
Spec. gravity of water at T	; GT	0,9832	0,9857	0,9881	0,9902	0,9922
Spec. gravity of soil	; Gs	2,68	2,69	2,68	2,69	2,67

Determination		6	7	8	9	10
Wt. bottle + water + soil	; W1 (grf)	761,9	762,8			
Temperature	; T (ºC)	35	30			
Wt. bottle + water	; W2 (grf)	707,7	708,6			
Spec. gravity of water at T	; GT	0,9941	0,9957			
Spec. gravity of soil	; Gs	2,68	2,68			

Wt. of dish + dry soil	(grf)	283,7
Wt. of dish	(grf)	197,5
Wt. of dry soil	; Ws (grf)	86,2

$$Gs = \frac{W_s * G_T}{W_2 - W_1 + W_S}$$

AVERAGE VALUE Gs = 2,68

Lampiran 4 : Data Penelitian *Specific Gravity Test* Pasir + 5% Abu Batu.

SPECIFIC GRAVITY TEST

Soil sample	: Pasir + 5% Abu batu	Form No.	: I.3 / 3-3
	:	Test No.	: 1
Location	: Padalarang	Date	: 28 April 2005
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 3		

Determination		1	2	3	4	5
Wt. bottle + water + soil	; W1 (grf)	755,4	756,6	757,7	758,6	759,5
Temperature	; T (ºC)	60	55	50	45	40
Wt. bottle + water	; W2 (grf)	702,3	703,5	704,6	705,7	706,7
Spec. gravity of water at T	; GT	0,9832	0,9857	0,9881	0,9902	0,9922
Spec. gravity of soil	; Gs	2,67	2,67	2,68	2,67	2,67

Determination		6	7	8	9	10
Wt. bottle + water + soil	; W1 (grf)	760,5	761,3			
Temperature	; T (ºC)	35	30			
Wt. bottle + water	; W2 (grf)	707,7	708,6			
Spec. gravity of water at T	; GT	0,9941	0,9957			
Spec. gravity of soil	; Gs	2,67	2,67			

Wt. of dish + dry soil	(grf)	282,2
Wt. of dish	(grf)	198,1
Wt. of dry soil	; Ws (grf)	84,1

$$Gs = \frac{W_s * G_T}{W_2 - W_1 + W_S}$$

AVERAGE VALUE Gs = 2,67

Lampiran 5 : Data Penelitian *Specific Gravity Test* Pasir + 15% Abu Batu.

SPECIFIC GRAVITY TEST

Soil sample	: Pasir + 15% Abu batu	Form No.	: I.3 / 3-3
	:	Test No.	: 1
Location	: Padalarang	Date	: 28 April 2005
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 4		

Determination		1	2	3	4	5
Wt. bottle + water + soil	; W1 (grf)	755,9	756,9	758,0	759,0	759,9
Temperature	; T (ºC)	60	55	50	45	40
Wt. bottle + water	; W2 (grf)	702,3	703,5	704,6	705,7	706,7
Spec. gravity of water at T	; GT	0,9832	0,9857	0,9881	0,9902	0,9922
Spec. gravity of soil	; Gs	2,68	2,67	2,67	2,67	2,67

Determination		6	7	8	9	10
Wt. bottle + water + soil	; W1 (grf)	761,0	761,7			
Temperature	; T (ºC)	35	30			
Wt. bottle + water	; W2 (grf)	707,7	708,6			
Spec. gravity of water at T	; GT	0,9941	0,9957			
Spec. gravity of soil	; Gs	2,68	2,67			

Wt. of dish + dry soil	(grf)	283,3
Wt. of dish	(grf)	198, 6
Wt. of dry soil	; Ws (grf)	84,7

$$Gs = \frac{W_s * G_T}{W_2 - W_1 + W_S}$$

AVERAGE VALUE Gs = 2,67

Lampiran 6 : Data Penelitian *Specific Gravity Test* Pasir + 25% Abu Batu.

SPECIFIC GRAVITY TEST

Soil sample	: Pasir + 25% Abu batu	Form No.	: I.3 / 3-3
	:	Test No.	: 1
Location	: Padalarang	Date	: 28 April 2005
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 5		

Determination		1	2	3	4	5
Wt. bottle + water + soil	; W1 (grf)	756,2	757,3	758,3	759,4	760,3
Temperature	; T (ºC)	60	55	50	45	40
Wt. bottle + water	; W2 (grf)	702,3	703,5	704,6	705,7	706,7
Spec. gravity of water at T	; GT	0,9832	0,9857	0,9881	0,9902	0,9922
Spec. gravity of soil	; Gs	2,68	2,68	2,68	2,68	2,68

Determination		6	7	8	9	10
Wt. bottle + water + soil	; W1 (grf)	761,2	762,1			
Temperature	; T (ºC)	35	30			
Wt. bottle + water	; W2 (grf)	707,7	708,6			
Spec. gravity of water at T	; GT	0,9941	0,9957			
Spec. gravity of soil	; Gs	2,68	2,68			

Wt. of dish + dry soil	(grf)	283,0
Wt. of dish	(grf)	197,9
Wt. of dry soil	; Ws (grf)	85,1

$$Gs = \frac{W_s * G_T}{W_2 - W_1 + W_S}$$

AVERAGE VALUE Gs = 2,68

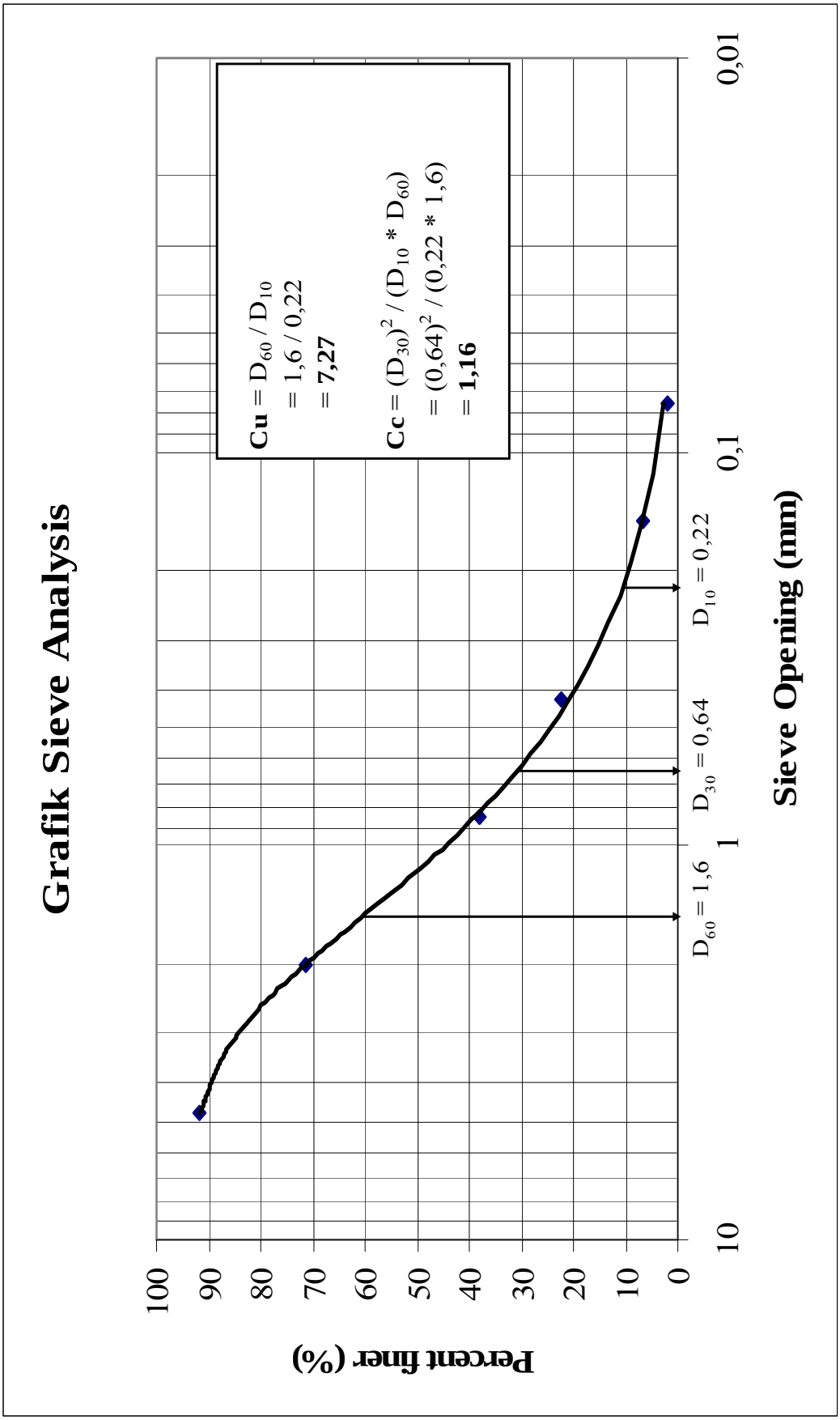
Lampiran 7 : Data Penelitian Analisis Tapis (*Sieve Analysis*) Tanah Pasir

SIEVE ANALYSIS

Soil sample	:Pasir coklat kekuning-kuningan	Form No.	: I.3 / 1-2
	:	Test No.	: 2
Location	:Padalarang	Date	: 2 Mei 2005
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 1 Gs = 2,66		

SOIL SAMPLE WEIGHT :	Container No.	:	Pan
	Wt. Container+dry soil (grf)	:	697,1
	Wt. Container (grf)	:	97,1
	Wt. of dry soil used (grf)	:	600,0

Sieve No.	Sieve Opening (mm)	Weight sieve (grf)	WT. sieve + soil (grf)	Wt. soil retaned (grf)	Percent retained (%)	Cumul. Percent (%)	Percent finer (%)
4	4,75	512,6	563,0	50,4	8,4	8,4	91,6
10	2,00	437,8	558,1	120,3	20,05	28,45	71,55
20	0,85	388,1	589,1	201,0	33,5	61,95	38,05
40	0,425	284,9	379,0	94,1	15,68	77,63	22,37
100	0,15	280,5	374,6	94,1	15,68	93,31	6,69
200	0,075	267,6	295,0	27,4	4,57	97,88	2,12
Pan		357,4	370,1	12,7	2,12	100,00	0
			Σ =	600			


Grafik Sieve Analysis
Percent finer (%)
Sieve Opening (mm)
100
90
80
70
60
50
40
30
20
10
0
10
1
0,1
0,01
D_{60} = 1,6
D_{30} = 0,64
D_{10} = 0,22
Cu = D_{60} / D_{10}
= 1,6 / 0,22
= 7,27
Cc = $(D_{30})^2$ / (D_{10} * D_{60})
= $(0,64)^2$ / (0,22 * 1,6)
= 1,16

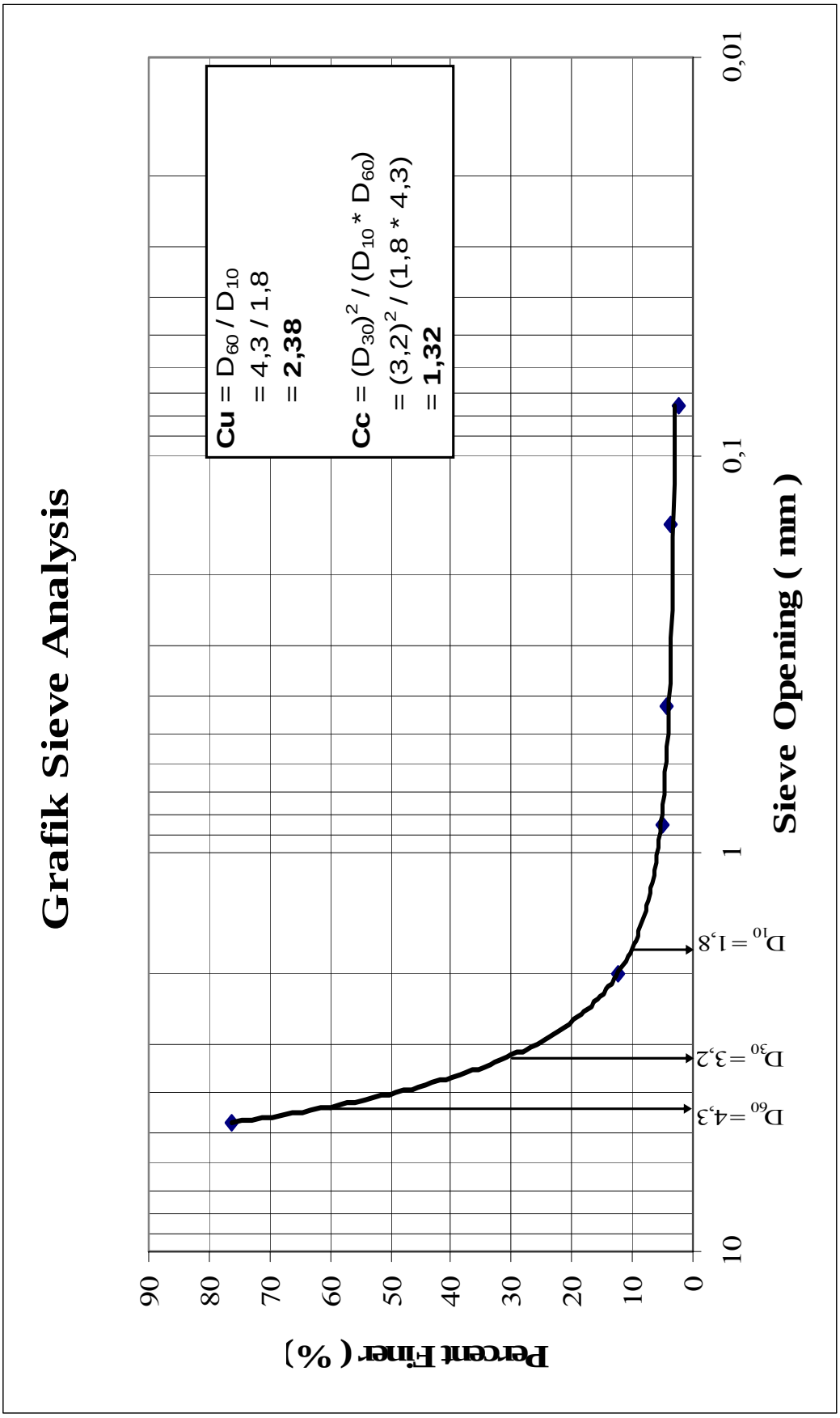
Lampiran 8 : Data Penelitian Analisis Tapis (*Sieve Analysis*) Abu Batu.

SIEVE ANALYSIS

Soil sample	:Abu Batu	Form No.	: I.3 / 1-2
	:	Test No.	: 2
Location	:Padalarang	Date	: 21 Januari 2006
Boring No.	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 1 Gs = 2,68		

SOIL SAMPLE WEIGHT :	Container No.	:	Pan
	Wt. Container+dry soil (grf)	:	696,9
	Wt. Container (grf)	:	96,9
	Wt. of dry soil used (grf)	:	600,0

Sieve No.	Sieve Opening (mm)	Weight sieve (grf)	WT. sieve + soil (grf)	Wt. soil retaned (grf)	Percent retained (%)	Cumul. Percent (%)	Percent finer (%)
4	4,75	511,6	654,0	142,4	23,73	23,73	76,27
10	2,00	437,1	820,0	382,9	63,82	87,55	12,45
20	0,85	387,3	432,5	45,2	7,53	95,08	4,92
40	0,425	284,4	288,0	3,6	0,60	95,68	4,32
100	0,15	280,3	284,0	3,7	0,62	96,30	3,70
200	0,075	267,3	275,6	8,3	1,38	97,68	2,32
Pan		356,7	370,6	13,9	2,32	100	0
			Σ =	600			


Grafik Sieve Analysis
Cu = D60 / D10
= 4,3 / 1,8
= 2,38
Cc = (D30)2 / (D10 * D60)
= (3,2)2 / (1,8 * 4,3)
= 1,32
D60 = 4,3
D30 = 3,2
D10 = 1,8
Percent Finer (%)
Sieve Opening (mm)
0
10
20
30
40
50
60
70
80
90
10
1
0,1
0,01

Lampiran 9 : Data Penelitian Kompaksi (*Compaction Test*) Pasir Murni.

COMPACTION TEST

Soil sample	: Pasir coklat kekuning-kuningan	Form No.	: I.3 / 1-1
		Test No.	: 3
Location	: Padalarang	Date	: 22 Agustus 2005
Depth	: Gs 2,66	Tested by	: Ganda Remarto Sinaga
Sample No.	: 1	Type of test	: Standard Proctor

Sample No.	1	2	3	4	5	6

Density Destination

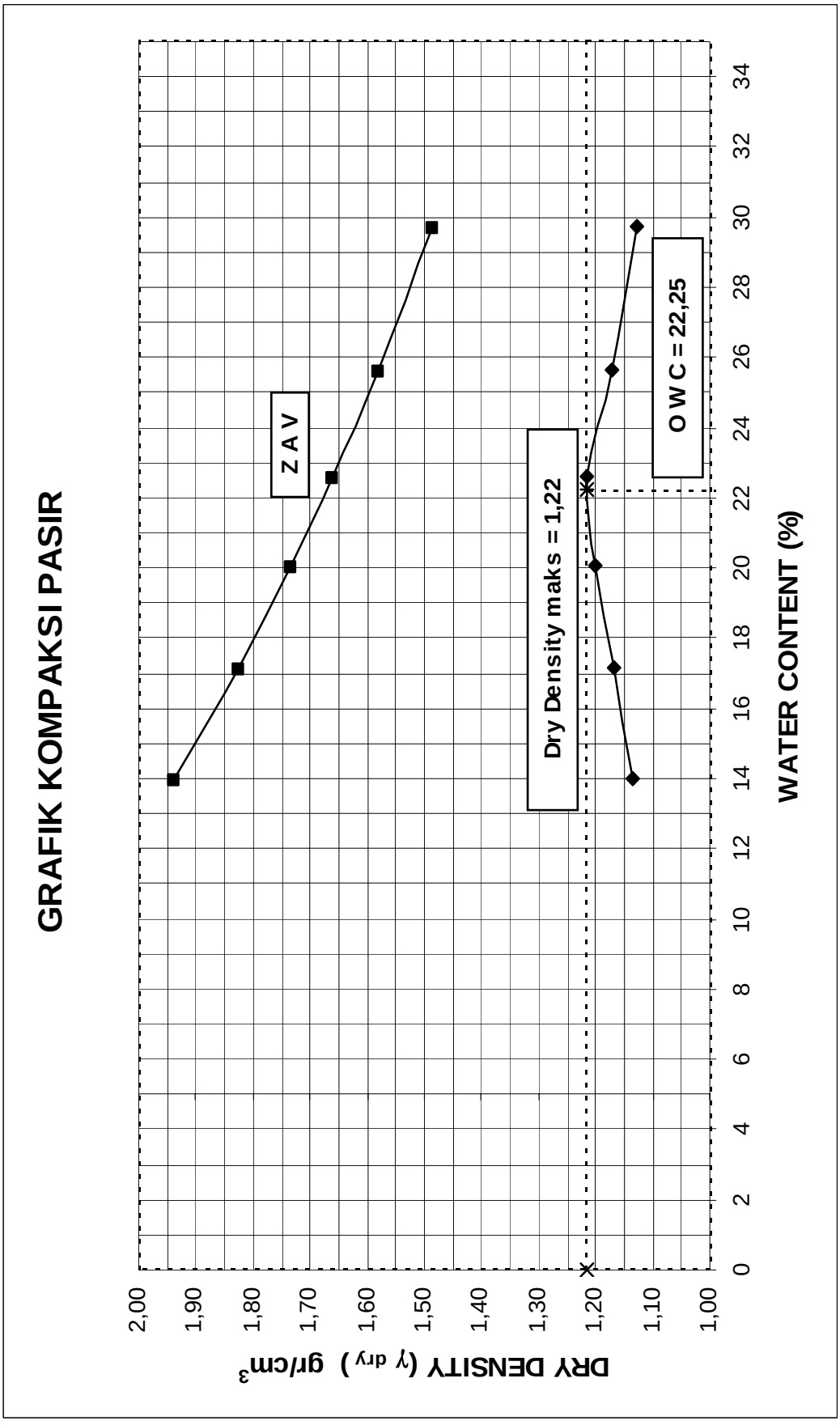
Assumed water content		(%)	14	17	20	23	26	29
Wt. Mold+Compacted soil		(gr)	5276,00	5345,00	5415,70	5461,80	5445,00	5435,00
Weight of Mold		(gr)	4070,70	4070,70	4070,70	4070,70	4070,70	4070,70
Volume of Mold		(cm^3)	932,02	932,02	932,02	932,02	932,02	932,02
Wt. Of Compacted soil		(gr)	1205,30	1274,30	1345,00	1391,10	1374,30	1364,30
Wet density	; γ wet	(gr/cc)	1,293	1,367	1,443	1,493	1,475	1,464
Dry density	; γ dry	(gr/cc)	1,134	1,167	1,202	1,217	1,173	1,128
Void ratio	; e		1,35	1,28	1,21	1,19	1,27	1,36
POROSITY	; n		0,57	0,56	0,55	0,54	0,56	0,58

Zero Air Void	1,94	1,83	1,73	1,66	1,58	1,48

Water Content Determination

Container no.		A	B	C	D	E	F
Wt. cont.+wet soil	(gr)	326,20	336,00	303,40	289,90	323,50	324,50
Wt. cont.+dry soil	(gr)	294,00	296,50	263,40	248,20	270,70	265,00
Wt. of water	(gr)	32,20	39,50	40,00	41,70	52,80	59,50
Wt. of container	(gr)	64,50	66,30	64,00	64,00	65,00	65,00
Wt. of drysoil	(gr)	229,50	230,20	199,40	184,20	205,70	200,00
WATER CONTENT	(%)	14,03	17,16	20,06	22,64	25,67	29,75

Spesific Gravity	2,66	Maksimum Dry Density (gr/cm^3)		1,22
Optimum Water Content (%)	22,25	95 % Maksimum Dry Density (gr/cm^3)		1,16


GRAFIK KOMPAKSI PASIR
DRY DENSITY (γ dry) gr/cm³
2,00
1,90
1,80
1,70
1,60
1,50
1,40
1,30
1,20
1,10
1,00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
WATER CONTENT (%)
Z A V
Dry Density maks = 1,22
O W C = 22,25

Lampiran 10 : Data Penelitian Kompaksi (*Compaction Test*) Abu Batu Murni.

COMPACTION TEST

Soil sample	: Abu batu		Form No. : I.3 / 1-1
			Test No. : 3
Location	: Padalarang		Date : 2 September 2005
Depth	:	Gs 2,68	Tested by : Ganda Remarto Sinaga
Sample No.	: 2		Type of test : Standard Proctor

Sample No.	1	2	3	4	5	6

Density Destination

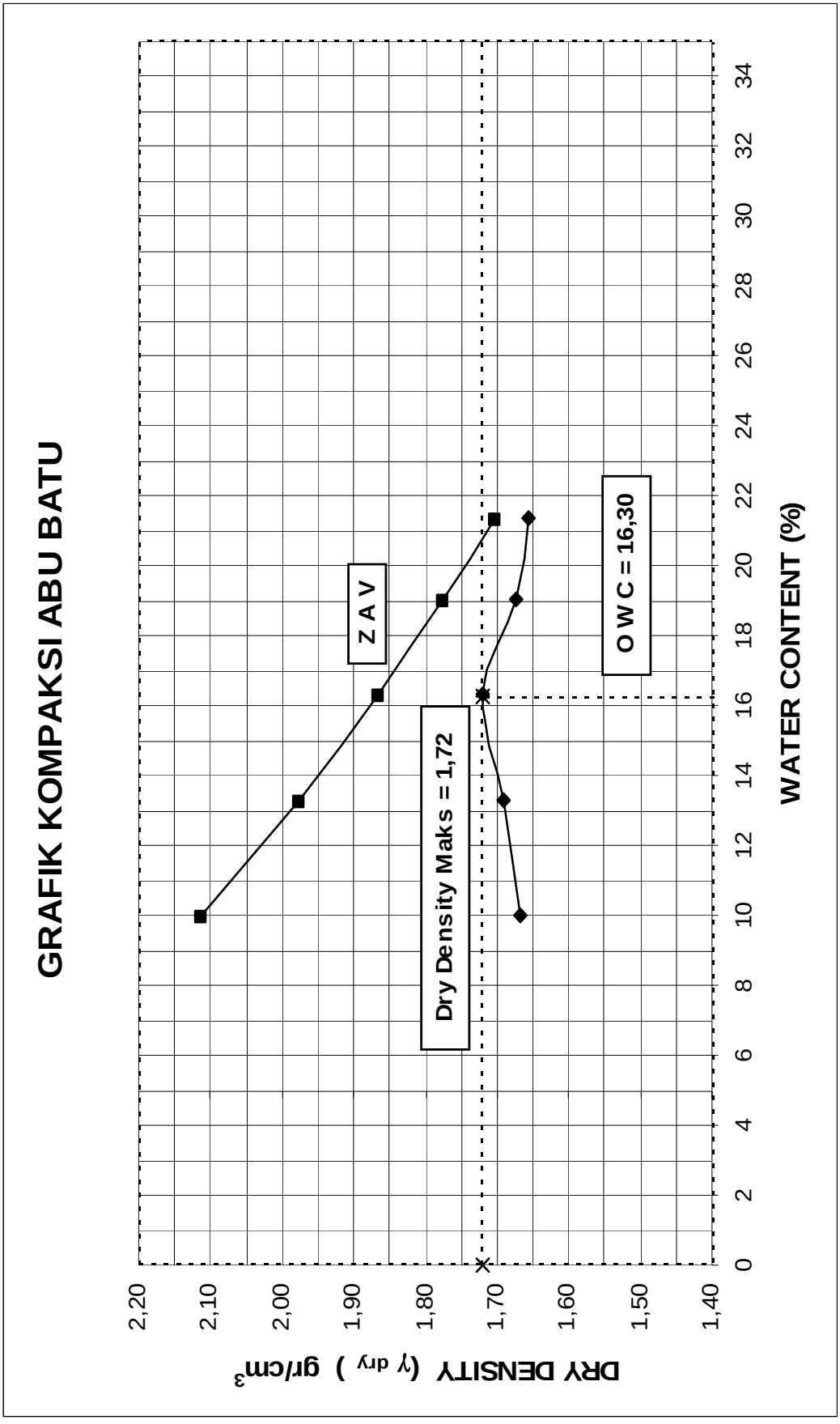
Assumed water content		(%)	10	13	16	19	22	
Wt. Mold+Compacted soil		(gr)	5781,90	5857,20	5935,90	5928,00	5945,20	
Weight of Mold		(gr)	4070,70	4070,70	4070,70	4070,70	4070,70	
Volume of Mold		(cm^3)	932,02	932,02	932,02	932,02	932,02	
Wt. Of Compacted soil		(gr)	1711,20	1786,50	1865,20	1857,30	1874,50	
Wet density	; γ wet	(gr/cc)	1,836	1,917	2,001	1,993	2,011	
Dry density	; γ dry	(gr/cc)	1,669	1,692	1,720	1,674	1,657	
Void ratio	; e		0,61	0,58	0,56	0,60	0,62	
POROSITY	; n		0,38	0,37	0,36	0,38	0,38	

Zero Air Void	2,11	1,98	1,86	1,77	1,70	

Water Content Determination

Container no.		A	B	C	D	E	F
Wt. cont.+wet soil	(gr)	211,90	214,50	217,10	216,40	261,40	
Wt. cont.+dry soil	(gr)	198,50	197,00	195,40	191,60	227,00	
Wt. of water	(gr)	13,40	17,50	21,70	24,80	34,40	
Wt. of container	(gr)	64,60	65,30	62,50	61,40	66,20	
Wt. of drysoil	(gr)	133,90	131,70	132,90	130,20	160,80	
WATER CONTENT	(%)	10,01	13,29	16,33	19,05	21,39	

Spesific Gravity		2,68	Maksimum Dry Density	(gr/cm^3)	1,72
Optimum Water Content	(%)	16,30	95 % Maksimum Dry Density	(gr/cm^3)	1,63


GRAFIK KOMPAKSI ABU BATU
DRY DENSITY (γ dry) gr/cm³
2,20
2,10
2,00
1,90
1,80
1,70
1,60
1,50
1,40
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
WATER CONTENT (%)
Z A V
O W C = 16,30
Dry Density Maks = 1,72

Lampiran 11 : Data Penelitian Kompaksi (*Compaction Test*) Pasir + 5% Abu Batu.

COMPACTION TEST

Soil sample	: Pasir + 5% Abu batu		Form No. : I.3 / 1-1
			Test No. : 3
Location	: Padalarang		Date : 26 September 2005
Depth	:	Gs 2,67	Tested by : Ganda Remarto Sinaga
Sample No.	: 3		Type of test : Standard Proctor

Sample No.	1	2	3	4	5	6

Density Destination

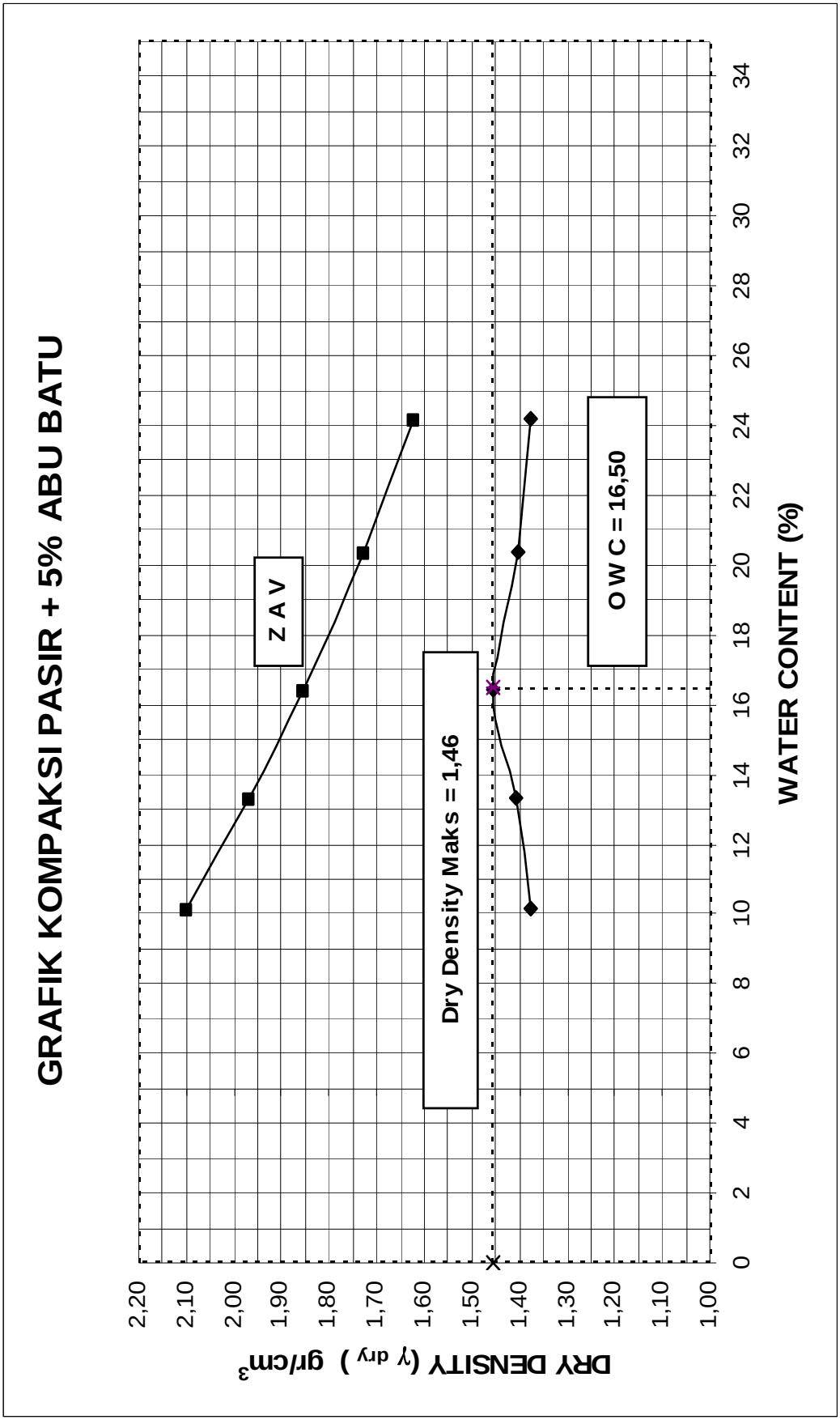
Assumed water content		(%)	10	13	16	20	24	
Wt. Mold+Compacted soil		(gr)	5481,70	5557,20	5650,50	5643,00	5663,40	
Weight of Mold		(gr)	4070,70	4070,70	4070,70	4070,70	4070,70	
Volume of Mold		(cm^3)	932,02	932,02	932,02	932,02	932,02	
Wt. Of Compacted soil		(gr)	1411,00	1486,50	1579,80	1572,30	1592,70	
Wet density	; γ wet	(gr/cc)	1,514	1,595	1,695	1,687	1,709	
Dry density	; γ dry	(gr/cc)	1,374	1,408	1,456	1,401	1,376	
Void ratio	; e		0,94	0,90	0,83	0,91	0,94	
POROSITY	; n		0,49	0,47	0,45	0,48	0,48	

Zero Air Void	2,10	1,97	1,86	1,73	1,62	

Water Content Determination

Container no.		A	B	C	D	E	F
Wt. cont.+wet soil	(gr)	211,90	221,10	221,10	204,00	267,40	
Wt. cont.+dry soil	(gr)	198,50	202,90	199,00	179,90	228,20	
Wt. of water	(gr)	13,40	18,20	22,10	24,10	39,20	
Wt. of container	(gr)	66,40	66,20	64,60	61,70	66,20	
Wt. of drysoil	(gr)	132,10	136,70	134,40	118,20	162,00	
WATER CONTENT	(%)	10,14	13,31	16,44	20,39	24,20	

Spesific Gravity		2,67	Maksimum Dry Density	(gr/cm^3)	1,46
Optimum Water Content	(%)	16,50	95 % Maksimum Dry Density	(gr/cm^3)	1,38


GRAFIK KOMPAKSI PASIR + 5% ABU BATU
DRY DENSITY (γ dry) gr/cm³
2,20
2,10
2,00
1,90
1,80
1,70
1,60
1,50
1,40
1,30
1,20
1,10
1,00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
WATER CONTENT (%)
Z A V
O W C = 16,50
Dry Density Maks = 1,46

Lampiran 12 : Data Penelitian Kompaksi (*Compaction Test*) Pasir + 15 % Abu Batu.

COMPACTION TEST

Soil sample	: Pasir + 15% Abu batu		Form No. : I.3 / 1-1
			Test No. : 3
Location	: Padalarang		Date : 17 November 2005
Depth	:	Gs 2,67	Tested by : Ganda Remarto Sinaga
Sample No.	: 4		Type of test : Standard Proctor

Sample No.	1	2	3	4	5	6

Density Destination

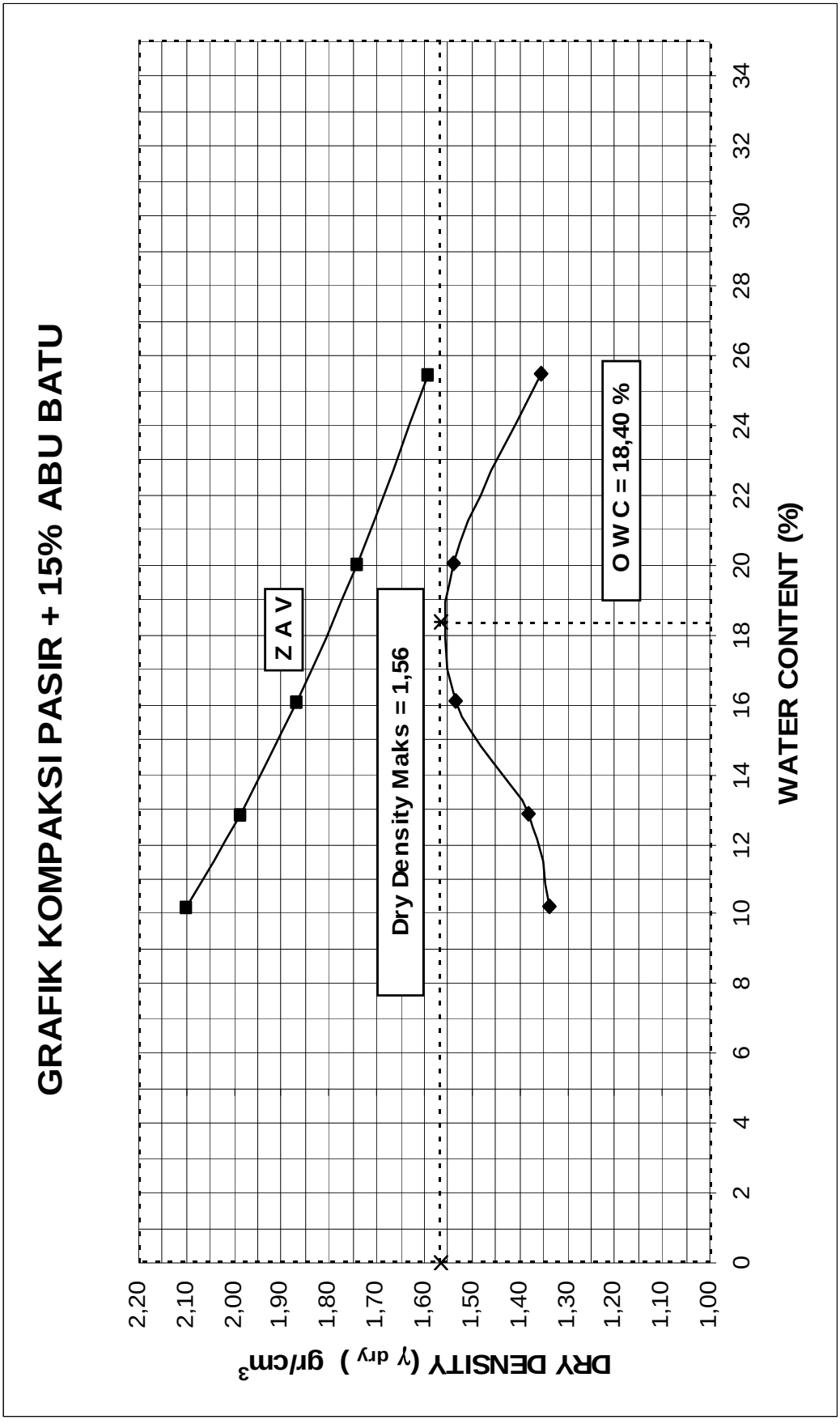
Assumed water content		(%)	10	13	16	20	24	
Wt. Mold+Compacted soil		(gr)	5442,40	5523,00	5732,00	5792,00	5657,00	
Weight of Mold		(gr)	4070,70	4070,70	4070,70	4070,70	4070,70	
Volume of Mold		(cm^3)	932,02	932,02	932,02	932,02	932,02	
Wt. Of Compacted soil		(gr)	1371,70	1452,30	1661,30	1721,30	1586,30	
Wet density	; γ wet	(gr/cc)	1,472	1,558	1,782	1,847	1,702	
Dry density	; γ dry	(gr/cc)	1,336	1,380	1,535	1,538	1,357	
Void ratio	; e		1,00	0,93	0,74	0,74	0,97	
POROSITY	; n		0,50	0,48	0,43	0,42	0,49	

Zero Air Void	2,10	1,99	1,87	1,74	1,59	

Water Content Determination

Container no.		A	B	C	D	E	F
Wt. cont.+wet soil	(gr)	213,50	224,40	234,50	212,00	327,10	
Wt. cont.+dry soil	(gr)	199,80	206,10	212,00	187,00	273,80	
Wt. of water	(gr)	13,70	18,30	22,50	25,00	53,30	
Wt. of container	(gr)	65,40	64,30	72,50	62,40	64,50	
Wt. of drysoil	(gr)	134,40	141,80	139,50	124,60	209,30	
WATER CONTENT	(%)	10,19	12,91	16,13	20,06	25,47	

Spesific Gravity		2,67	Maksimum Dry Density	(gr/cm^3)	1,56
Optimum Water Content	(%)	18,40	95 % Maksimum Dry Density	(gr/cm^3)	1,49


GRAFIK KOMPAKSI PASIR + 15% ABU BATU
DRY DENSITY (γ dry) gr/cm³
2,20
2,10
2,00
1,90
1,80
1,70
1,60
1,50
1,40
1,30
1,20
1,10
1,00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
WATER CONTENT (%)
Z A V
Dry Density Maks = 1,56
O W C = 18,40 %

Lampiran 13 : Data Penelitian Kompaksi (*Compaction Test*) Pasir + 25% Abu Batu.

COMPACTION TEST

Soil sample	: Pasir + 25% Abu batu	Form No.	: I.3 / 1-1
		Test No.	: 3
Location	: Padalarang	Date	: 5 Januari 2006
Depth	: Gs 2,68	Tested by	: Ganda Remarto Sinaga
Sample No.	: 5	Type of test	: Standard Proctor

Sample No.	1	2	3	4	5	6

Density Destination

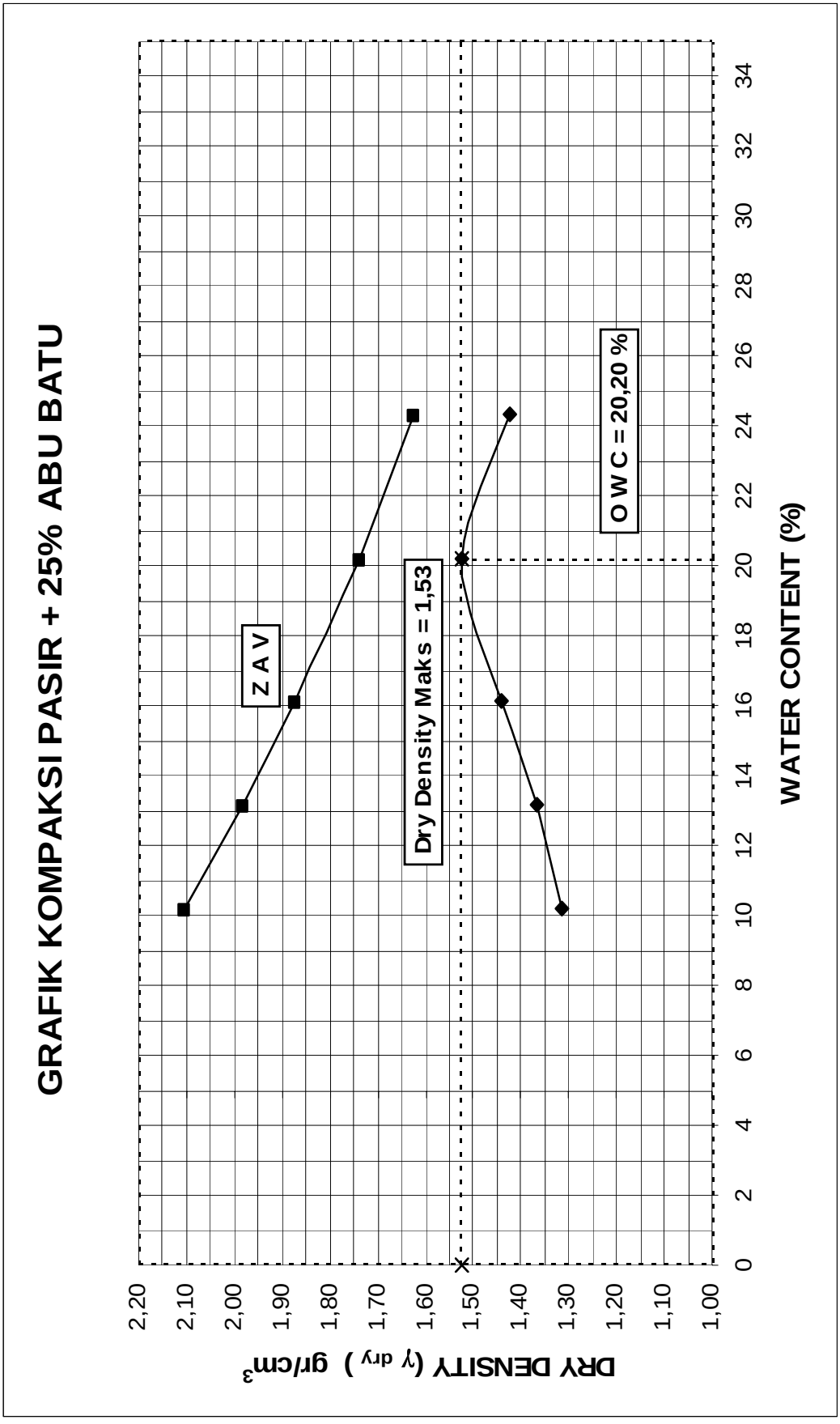
Assumed water content		(%)	10	13	16	20	24	
Wt. Mold+Compacted soil		(gr)	5422,10	5512,00	5631,90	5780,00	5720,00	
Weight of Mold		(gr)	4070,70	4070,70	4070,70	4070,70	4070,70	
Volume of Mold		(cm^3)	932,02	932,02	932,02	932,02	932,02	
Wt. Of Compacted soil		(gr)	1351,40	1441,30	1561,20	1709,30	1649,30	
Wet density	; γ wet	(gr/cc)	1,450	1,546	1,675	1,834	1,770	
Dry density	; γ dry	(gr/cc)	1,316	1,366	1,442	1,525	1,423	
Void ratio	; e		1,04	0,96	0,86	0,76	0,88	
POROSITY	; n		0,51	0,49	0,46	0,43	0,47	

Zero Air Void	2,10	1,98	1,87	1,74	1,62	

Water Content Determination

Container no.		A	B	C	D	E	F
Wt. cont.+wet soil	(gr)	212,30	223,40	207,20	204,30	342,80	
Wt. cont.+dry soil	(gr)	198,80	205,10	187,40	180,30	288,70	
Wt. of water	(gr)	13,50	18,30	19,80	24,00	54,10	
Wt. of container	(gr)	66,40	66,20	64,60	61,70	66,20	
Wt. of drysoil	(gr)	132,40	138,90	122,80	118,60	222,50	
WATER CONTENT	(%)	10,20	13,17	16,12	20,24	24,31	

Spesific Gravity		2,68	Maksimum Dry Density	(gr/ cm^3)	1,53
Optimum Water Content	(%)	20,20	95 % Maksimum Dry Density	(gr/ cm^3)	1,45


GRAFIK KOMPAKSI PASIR + 25% ABU BATU
DRY DENSITY (γ dry) gr/cm³
2,20
2,10
2,00
1,90
1,80
1,70
1,60
1,50
1,40
1,30
1,20
1,10
1,00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
WATER CONTENT (%)
Z A V
Dry Density Maks = 1,53
O W C = 20,20 %

Lampiran 14 : Data Gabungan Pengujian Kompaksi (*Compaction Test*).

GABUNGAN PENGUJIAN KOMPAKSI

Soil sample : Pasir murni + berbagai campuran abu batu		Form No.	: I.3 / 1-1
		Test No.	: 3
Location	: Padalarang	Date	: 5 Januari 2006
Depth	:	Tested by	: Ganda Remarto Sinaga
Sample No.	: 1 s/d 5	Type of test	: Standard Proctor

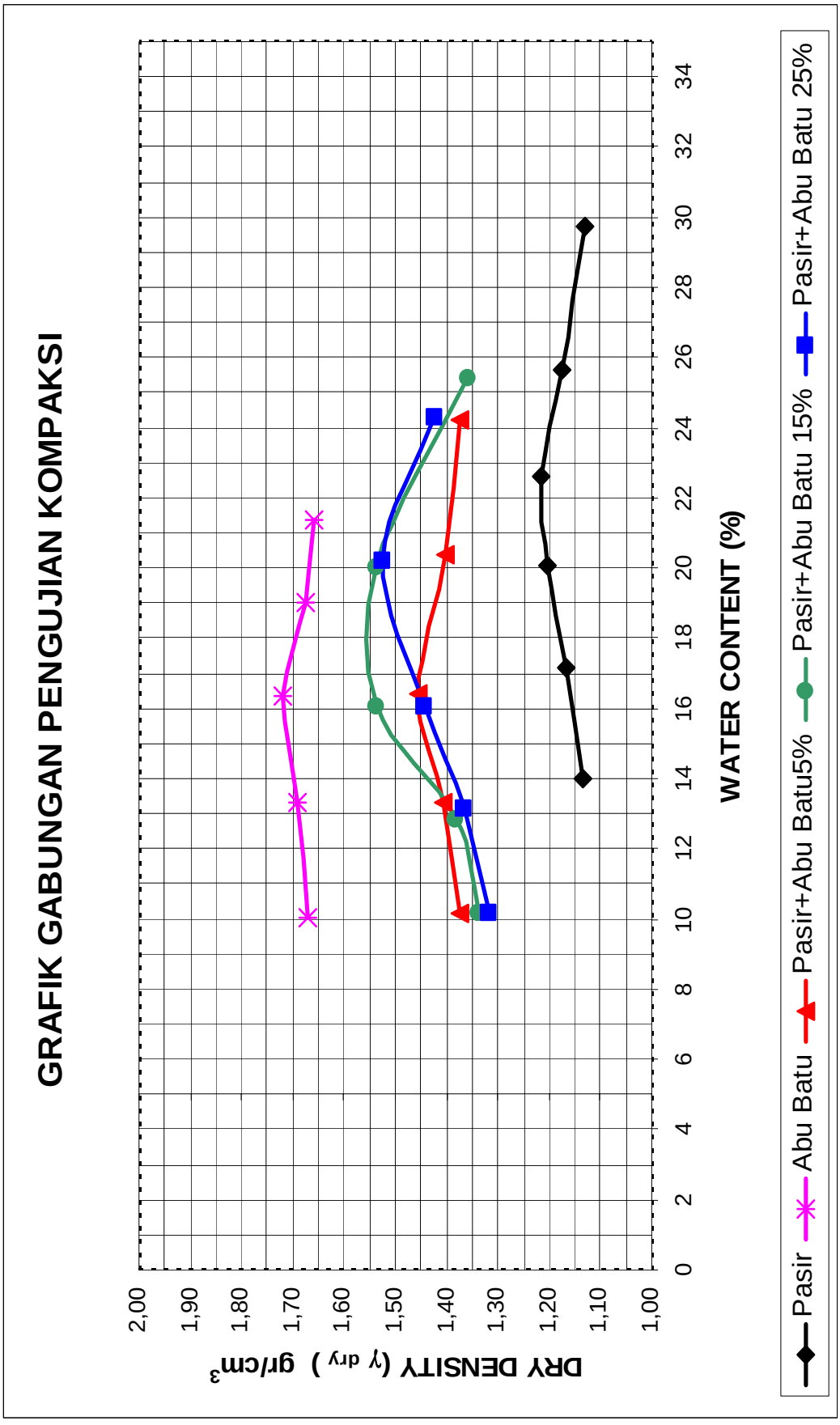
SAMPLE NO.		**1**	**PASIR MURNI**					
Dry Density	; γ dry	(gr/ cm³)	1,134	1,167	1,202	1,217	1,173	1,128
Water Content		(%)	14,03	17,16	20,06	22,64	25,67	29,75

SAMPLE NO.		**2**	**ABU BATU MURNI**					
Dry Density	; γ dry	(gr/ cm³)	1,669	1,692	1,720	1,674	1,657	
Water Content		(%)	10,01	13,29	16,33	19,05	21,39	

SAMPLE NO.		**3**	**CAMPURAN PASIR + ABU BATU 5 %**					
Dry Density	; γ dry	(gr/ cm³)	1,374	1,408	1,456	1,401	1,376	
Water Content		(%)	10,14	13,31	16,44	20,39	24,20	

SAMPLE NO.		**4**	**CAMPURAN PASIR + ABU BATU 15 %**					
Dry Density	; γ dry	(gr/ cm³)	1,336	1,380	1,535	1,538	1,357	
Water Content		(%)	10,19	12,91	16,13	20,06	25,47	

SAMPLE NO.		**5**	**CAMPURAN PASIR + ABU BATU 25 %**					
Dry Density	; γ dry	(gr/ cm³)	1,316	1,366	1,442	1,525	1,423	
Water Content		(%)	10,20	13,17	16,12	20,24	24,31	


GRAFIK GABUNGAN PENGUJIAN KOMPAKSI
DRY DENSITY (γ dry) gr/cm³
2,00
1,90
1,80
1,70
1,60
1,50
1,40
1,30
1,20
1,10
1,00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
WATER CONTENT (%)
Pasir
Abu Batu
Pasir+Abu Batu5%
Pasir+Abu Batu 15%
Pasir+Abu Batu 25%

Lampiran 15 : Tabel *Specific Gravity Of Water*.

TABEL SPECIFIC GRAVITY OF WATER

º C	0	1	2	3	4
0	0.9999	0,9999	1,0000	1,0000	1,0000
10	0.9997	0,9996	0,9995	0,9994	0,9993
20	0.9982	0,9980	0,9978	0,9976	0,9973
30	0.9957	0,9954	0,9951	0,9947	0,9944
40	0.9922	0,9919	0,9915	0,9911	0,9907
50	0.9881	0,9876	0,9872	0,9867	0,9862
60	0.9832	0,9827	0,9822	0,9817	0,9811
70	0.9778	0,9772	0,9767	0,9761	0,9755
80	0.9718	0,9712	0,9606	0,9699	0,9693
90	0.9653	0,9647	0,9640	0,9633	0,9626

º C	5	6	7	8	9
0	1,0000	1,0000	0,9999	0,9999	0,9999
10	0,9991	0,9990	0,9988	0,9986	0,9984
20	0,9971	0,9968	0,9965	0,9963	0,9960
30	0,9941	0,9937	0,9934	0,9930	0,9926
40	0,9902	0,9898	0,9894	0,9890	0,9885
50	0,9857	0,9852	0,9848	0,9842	0,9838
60	0,9806	0,9800	0,9795	0,9789	0,9784
70	0,9749	0,9743	0,9737	0,9731	0,9724
80	0,9686	0,9680	0,9673	0,9667	0,9660
90	0,9619	0,9612	0,9605	0,9598	0,9591

Lampiran 16 : Data Hasil Pengujian Bahan Abu Batu.

DEPARTEMEN PERINDUSTRIAN DAN PERDAGANGAN
BADAN PENELITIAN DAN PENGEMBANGAN INDUSTRI DAN PERDAGANGAN
BALAI BESAR BAHAN DAN BARANG TEKNIK
Jl. Sangkuriang No. 14 Bandung 40135 JAWA BARAT - INDONESIA
Telp. 022 - 2504088,2510682, 2504828, 2507626 Fax. 022 - 2502027
E-mail : b4t@bdg.centrin.net.id

LAPORAN NO. : 6-04-04-0023 TANGGAL : 13-8-2004

BAHAN : 1 (satu) contoh aggregat kasar..

DIBUAT UNTUK : PT. GUNUNG PADA KASIH
Desa Giri Asih Batujajar.

CONTOH DITERIMA TGL. : 28-07-2004.

HASIL PENGUJIAN

URAIAN PENGUJIAN	CONTOH SPLIT 1/2 LAGADAR	SYARAT MUTU ASTM C 33
1.ANALISA AYAK.		
a.Pembagian besar butir		
Bagian yang menembus :		
25,0 mm, %	100,0	
19,0 mm, %	85,8	
12,5 mm, %	30,2	
9,5 mm, %	5,9	
b.Angka kehalusan (FM)	7,083	
2.BOBOT ISI		
a.Diisi gembur, kg/ltr	1,190	
b.Diisi padat, kg/ltr	1,370	
3.BERAT JENIS DAN PENYERAPAN AIR.		
a.Berat jenis keadaan kering	2,28	
b.Berat jenis jenuh dan kering muka (ssd. Condition).	2,38	
c.Berat jenis nyata	2,54	
d.Penyerapan air pada keadaan jenuh dan kering muka, %	4,41	

DEPARTEMEN PERINDUSTRIAN DAN PERDAGANGAN
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LAPORAN NO. : 6-04-04-0023

URAIAN PENGUJIAN	CONTOH SPLIT 1 / 2 LAGADAR	SYARAT MUTU ASTM C 33
4.KADAR LUMPUR Bagian lebih halus dari 75 µm (No. 200), % :	0,85	Maks. 1 %
5. Kekerasan Abrasi (L.A. Machine), % :	29,2	Maks. 50 %
6. Kekekalan (Soundness) Dengan garam Natrium Sulfat, % :	3,94	Maks. 12 %

BALAI BESAR BAHAN DAN BARANG TEKNIK
Kepala Lab. Beton,

RAHMAN HENDAYANA
NIP. 090006754

PERHATIAN A : Hasil-hasil pengujian ini tidak untuk diumumkan dan hanya berlaku untuk contoh-contoh yang bersangkutan
B : Membuat kutipan dengan maksud dan dalam bentuk apapun juga, harus memuat seluruh isi laporan pengujian ini. Mengutip sebagian dari isinya, dilarang keras