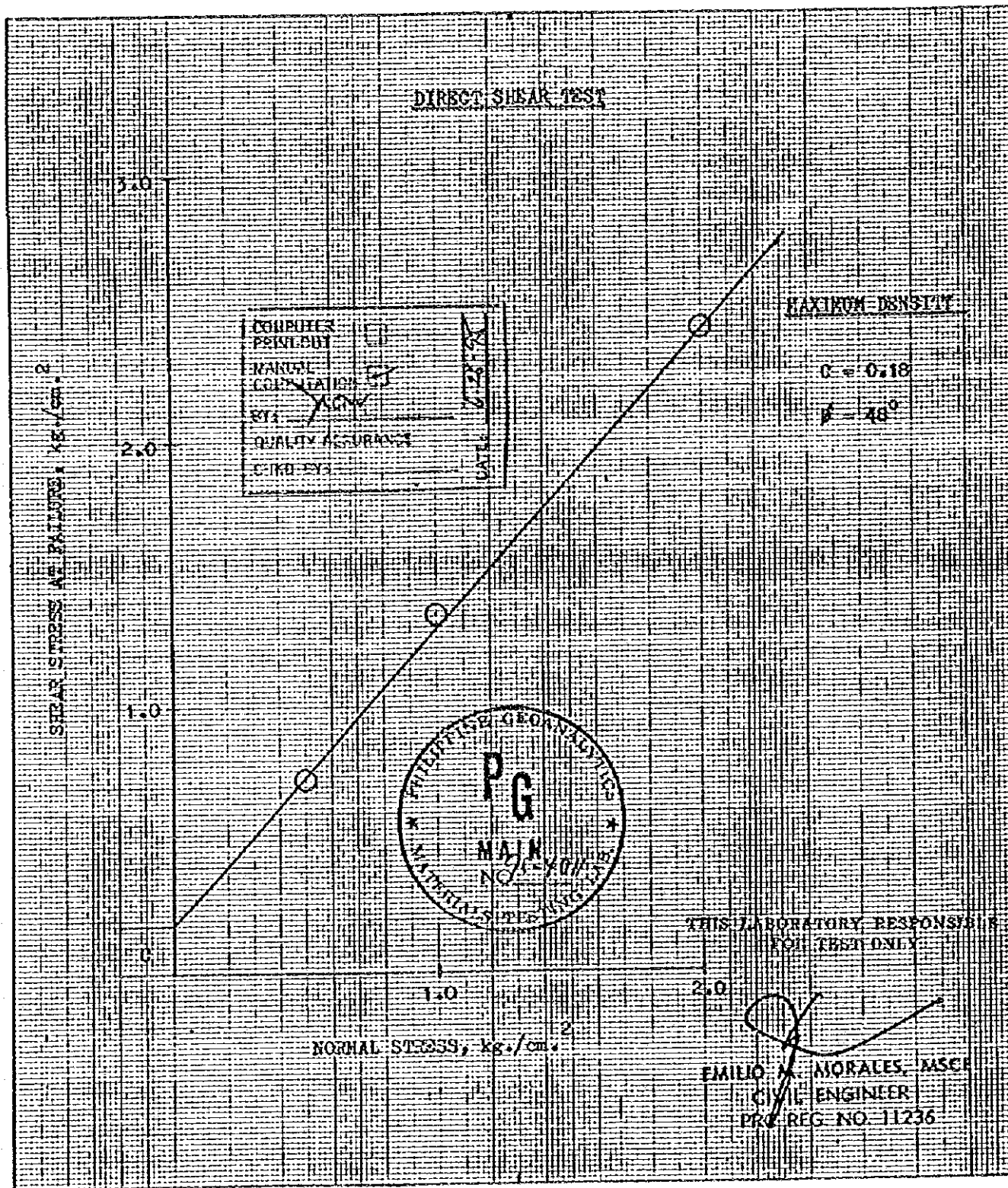
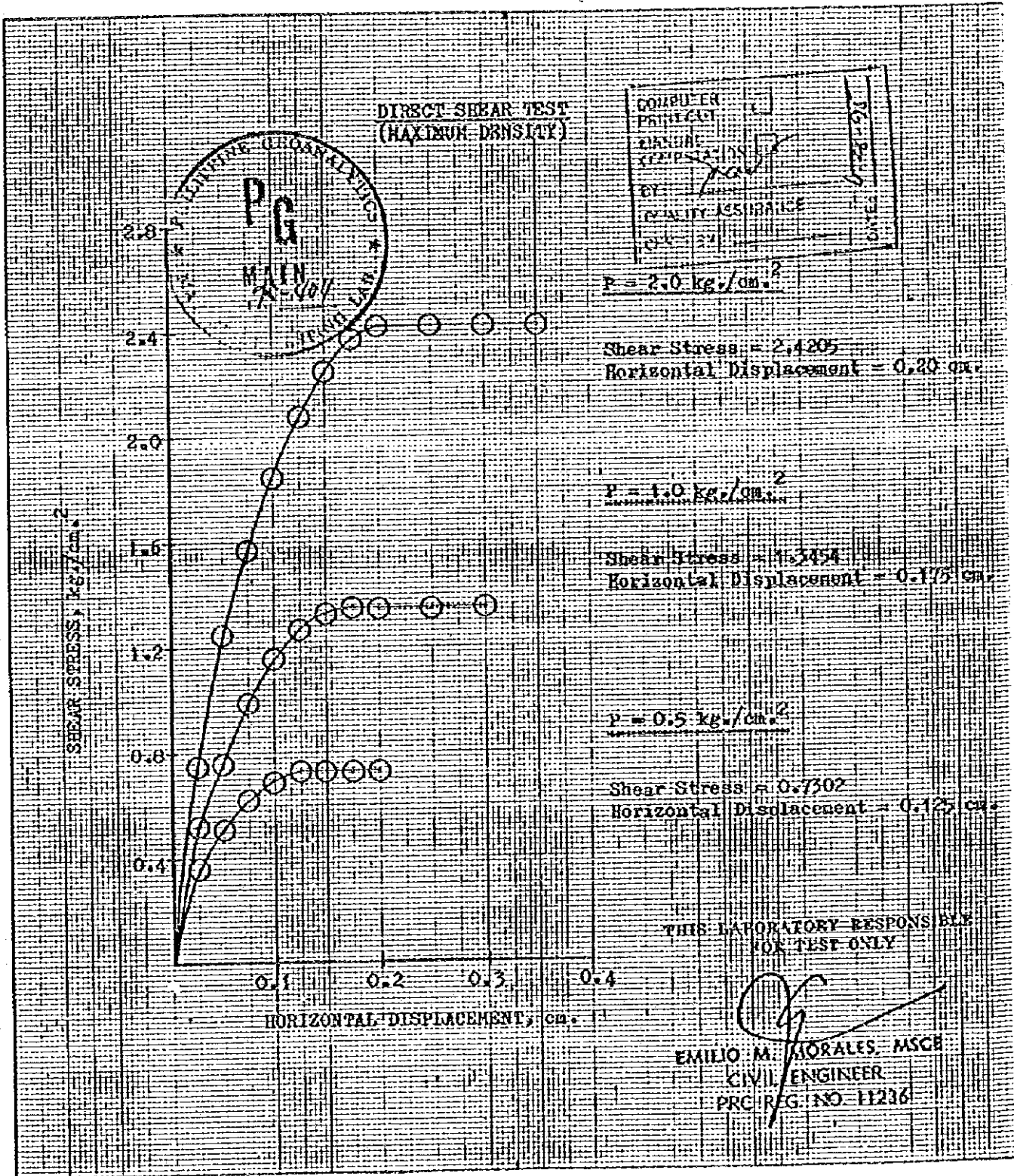


PHILIPPINE GEOANALYTICS	COMPUTER PRINTOUT <input type="checkbox"/> DETAILS PREPARED <input type="checkbox"/>	SHEET <u>2</u> OF <u>3</u>
	PROJECT: PINATUBO LOCATION: DOLORES CONSOLIDATION DAM SAMPLE: BH-2 DEPTH: 9.55 M.	JOB NO: TESTED BY: CAM DATE TESTED: 06-23-95



1 KN = 101.971 kgf
 1 MPa = 10.1971 kgf/cm²

PHILIPPINE GEOTECHNICAL ANALYTICS	COMPUTER PRINTOUT <input type="checkbox"/> DETAILS PREPARED <input type="checkbox"/>	SHEET <u>3</u> OF <u>3</u>
	PROJECT: PINATUBO LOCATION: DOLORES CONSOLIDATION DAM SAMPLE: BH-2 DEPTH: 9.55 M.	JOB NO. TESTED BY: CAM DATE TESTED: 06-23-95



1 KN = 101.971 Kgf
 1 Kg = 2.20462 lbs

COMPACTION TEST

Page 1 of 4 pages
DEPTH : 5.55 M.

Project PINATUBO Job No. _____
 Location of Project DOLORES CONSOLIDATION DAM Boring No. 3 Sample No. _____
 Description of Soil _____
 Test Performed By C.A.M. Date of Test 06-19-95
 Blows/Layer 50 No. of Layers 2 Wt. of Hammer 349 g
 Mold dimensions: Diam. 6 X 6 cm. Ht. 2 cm. Vol. 72 cu.cm.

DATE RECEIVED : _____
 DATE RELEASED 29 JUN 1995

Water Content Determination

Sample no.	1	2	3	4	5	6
Moisture can no.						
Wt. of can + wet soil						
Wt. of can + dry soil						
Wt. of water						
Wt. of can						
Wt. of dry soil						
Water content, w%						

COMPUTER PRINT OUT
 MANUAL COMPACTION
 BY: MAC
 QUALITY ASSURANCE
 CHKD BY: _____

Density Determination	MINIMUM DENSITY			MAXIMUM DENSITY		
Assumed water content	-	-	-	-	-	-
Water content, w%	-	-	-	-	-	-
Wt. of soil + mold	2,638	2,635	2,635	2,645	2,644	2,646
Wt. of mold	2,514	2,514	2,514	2,514	2,514	2,514
Wt. of soil in mold	124	121	121	131	130	132
Wet density, g/cc	1.722	1.681	1.681	1.819	1.806	1.833
Dry density γ , g/cc	Average = 1.695			Average = 1.819		

Dry density γ_{dry} , g/cc

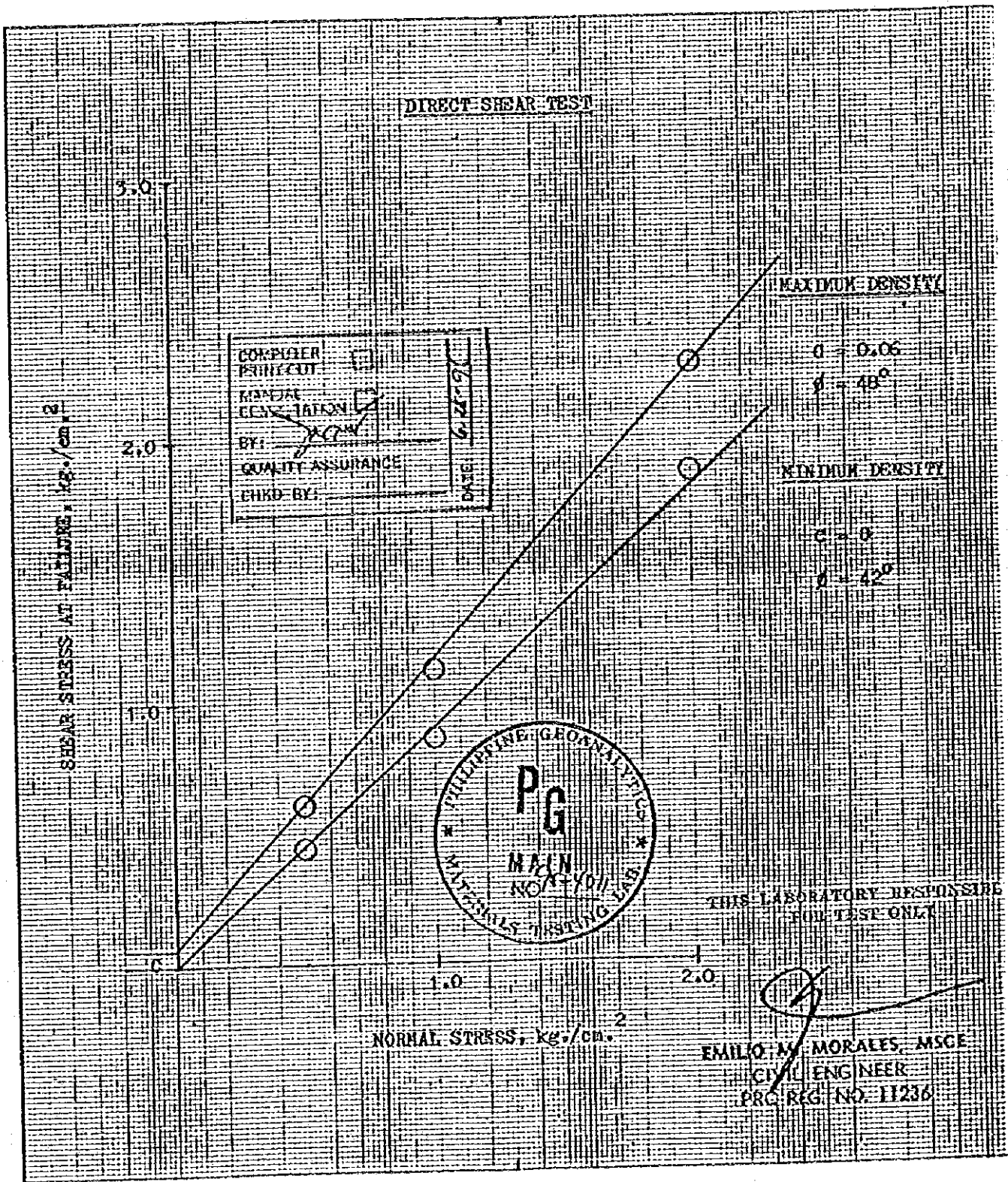
THIS LABORATORY RESPONSIBLE FOR TEST ONLY

[Signature]

EMILIO M. MORALES, MSCE
 CIVIL ENGINEER
 PRC REG. NO. 11236

Optimum moisture = _____ % Maximum dry density = _____ g/cc

PHILIPPINE GEOANALYTICS	COMPUTER PRINTOUT <input type="checkbox"/> DETAILS PREPARED <input type="checkbox"/>	SHEET <u>2</u> OF <u>4</u>
	PROJECT: <u>PINATUBO</u>	JOB NO.:
LOCATION: <u>DOLORES CONSOLIDATION DAM</u>	TESTED BY: <u>CAM</u>	CHECKED BY: <u>JEV</u>
SAMPLE: <u>BH-3</u> DEPTH: <u>5.55 M.</u>	DATE TESTED: <u>06-19-95</u>	DATE FINISHED: <u>06-19-95</u>



1 cm = 10 mm
 1 kg = 2.2046 lbs

PHILIPPINE

GEOANALYTICS

COMPUTER PRINTOUT
DETAILS PREPARED

SHEET 3 OF 4

PROJECT: PINATUBO

JOB NO:

CROSS REFERENCE:

LOCATION: DOLORES CONSOLIDATION DAM

TESTED BY: CAM

CHECKED BY: JBY

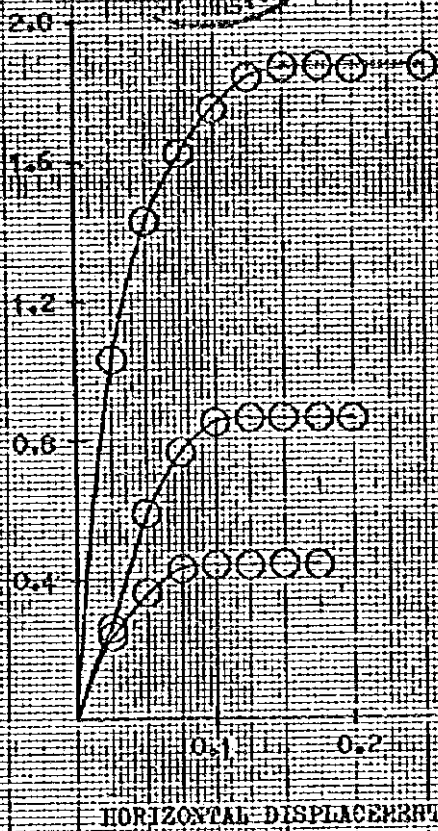
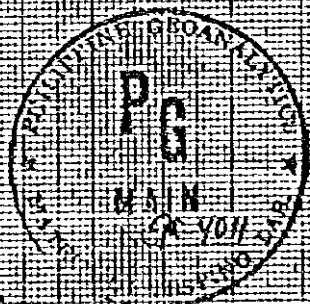
SAMPLE: BH-3 DEPTH: 5.55 M.

DATE TESTED: 06-19-95

DATE FINISHED: 06-19-95

DIRECT SHEAR TEST (MINIMUM DENSITY)

COMPUTER	<input type="checkbox"/>
PRINTOUT	<input type="checkbox"/>
MAILED	<input checked="" type="checkbox"/>
RECEIVED	<input checked="" type="checkbox"/>
BY	JBY
QUALITY ASSURANCE	<input type="checkbox"/>
CHECKED BY	



$P = 2.0 \text{ kg/cm}^2$

Shear Stress = 1.8685
Horizontal Displacement = 0.15 cm.

$P = 0.5 \text{ kg/cm}^2$

Shear Stress = 0.8595
Horizontal Displacement = 0.125 cm.

$P = 0.5 \text{ kg/cm}^2$

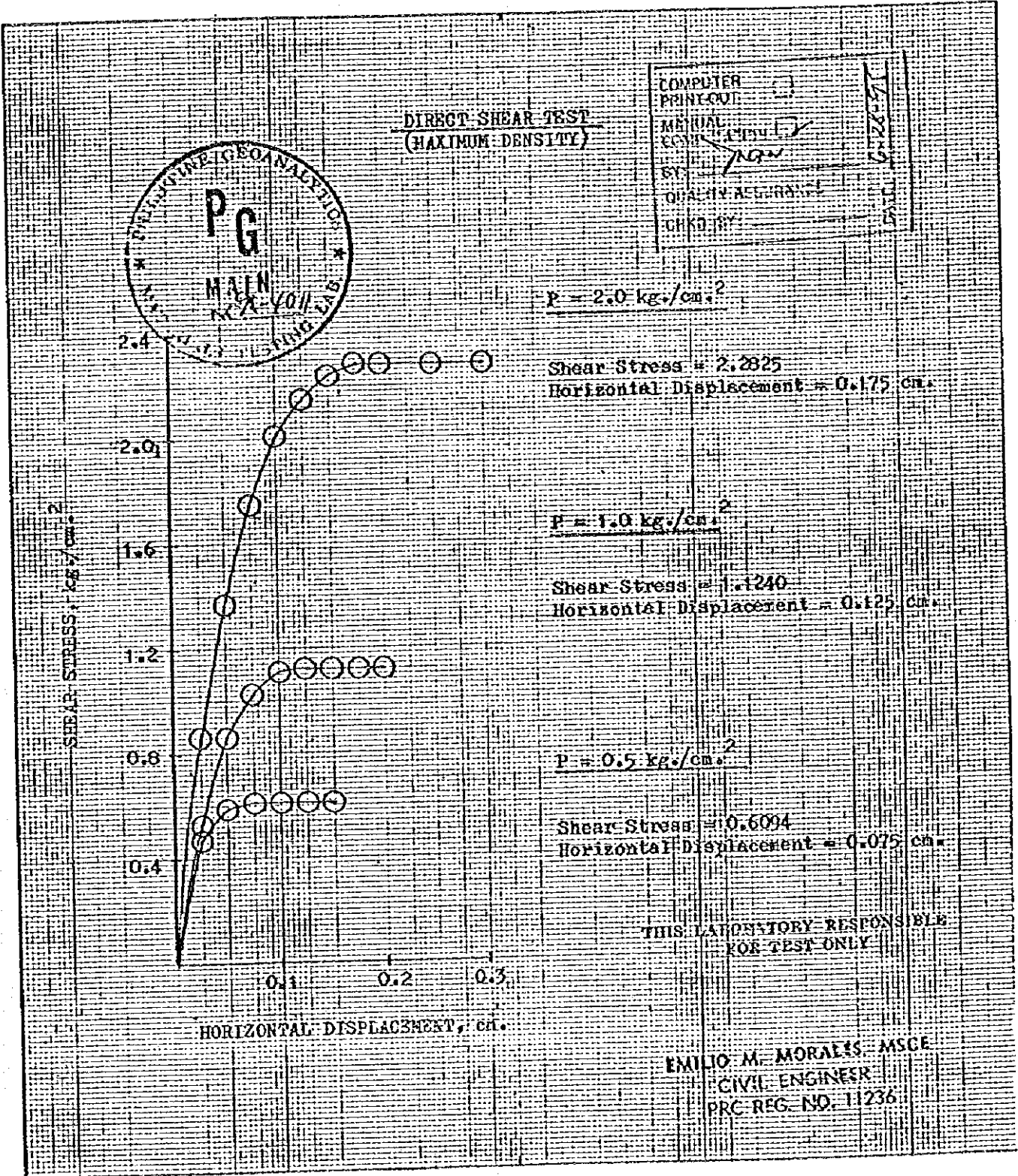
Shear Stress = 0.4427
Horizontal Displacement = 0.10 cm.

TEST LABORATORY RESPONSIBLE FOR TEST ONLY

EMILIO A. MORALES, MSCE
CIVIL ENGINEER
PRC REG. NO. 11236

1 KN = 101.971 Kg
1 KPa = 20.885 PSF

PHILIPPINE GEOANALYTICS PROJECT: PINATUBO LOCATION: DOLORES CONSOLIDATION DAM SAMPLE: BH-3 DEPTH: 5.55 M.	COMPUTER PRINTOUT <input type="checkbox"/> DETAILS PREPARED <input type="checkbox"/>	SHEET 4 OF 4
	JOB NO.:	CROSS REFERENCE:
	TESTED BY: CAM	CHECKED BY: JEV
	DATE TESTED: 06-19-95	DATE FINISHED: 06-19-95



1 KN = 10197 kgf
 1 MPa = 10197 kgf/cm²

COMPACTION TEST

Project PINATUBO Job No. DEPTH : 9.55 M.
 Location of Project DOLORES CONSOLIDATION DAM Boring No. 3 Sample No. -
 Description of Soil _____
 Test Performed By C.A.M. Date of Test 06-20-95
 Blows/Layer 50 No. of Layers 2 Wt. of Hammer 349 g
 Mold dimensions: Diam. 6 X 6 cm. Ht. 2 cm. Vol. 72 cu.cm.

DATE RECEIVED: 29 JUN 1995
 DATE RELEASED: _____

Water Content Determination

Sample no.	1	2	3	4	5	6
Moisture can no.						
Wt. of can + wet soil						
Wt. of can + dry soil						
Wt. of water						
Wt. of can						
Wt. of dry soil						
Water content, w%						

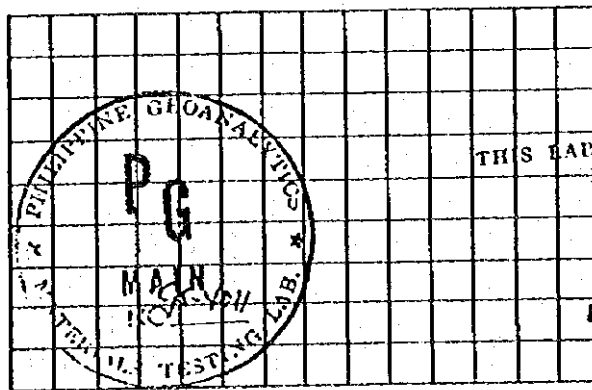
Density Determination

MINIMUM DENSITY

MAXIMUM DENSITY

	MINIMUM DENSITY			MAXIMUM DENSITY		
Assumed water content	-	-	-	-	-	-
Water content, w%	-	-	-	-	-	-
Wt. of soil + mold	2,614	2,620	2,622	2,647	2,646	2,649
Wt. of mold	2,514	2,514	2,514	2,514	2,514	2,514
Wt. of soil in mold	100	106	108	133	132	135
Wet density, g/cc	1.389	1.472	1.500	1.847	1.833	1.875
Dry density γ , g/cc	Average = 1.454			Average = 1.852		

Dry density γ_{dry} , g/cc



THIS LABORATORY RESPONSIBLE
FOR TEST ONLY

EMILIO M. MORALES, MSCE
CIVIL ENGINEER
PRC REG. NO. 11236

Water content, w%

Optimum moisture = _____ % Maximum dry density = _____ g/cc

PHILIPPINE
GEOANALYTICS

PHILIPPINE

GEOTECHNICAL ANALYTICS

COMPUTER PRINTOUT
DETAILS PREPARED

SHEET 2 OF 4

PROJECT: **PINATUBO**

JOB NO:

CROSS REFERENCE:

LOCATION: **DOLORES CONSOLIDATION DAM**

TESTED BY: **CAN**

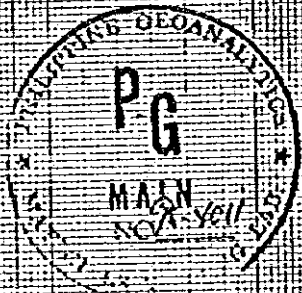
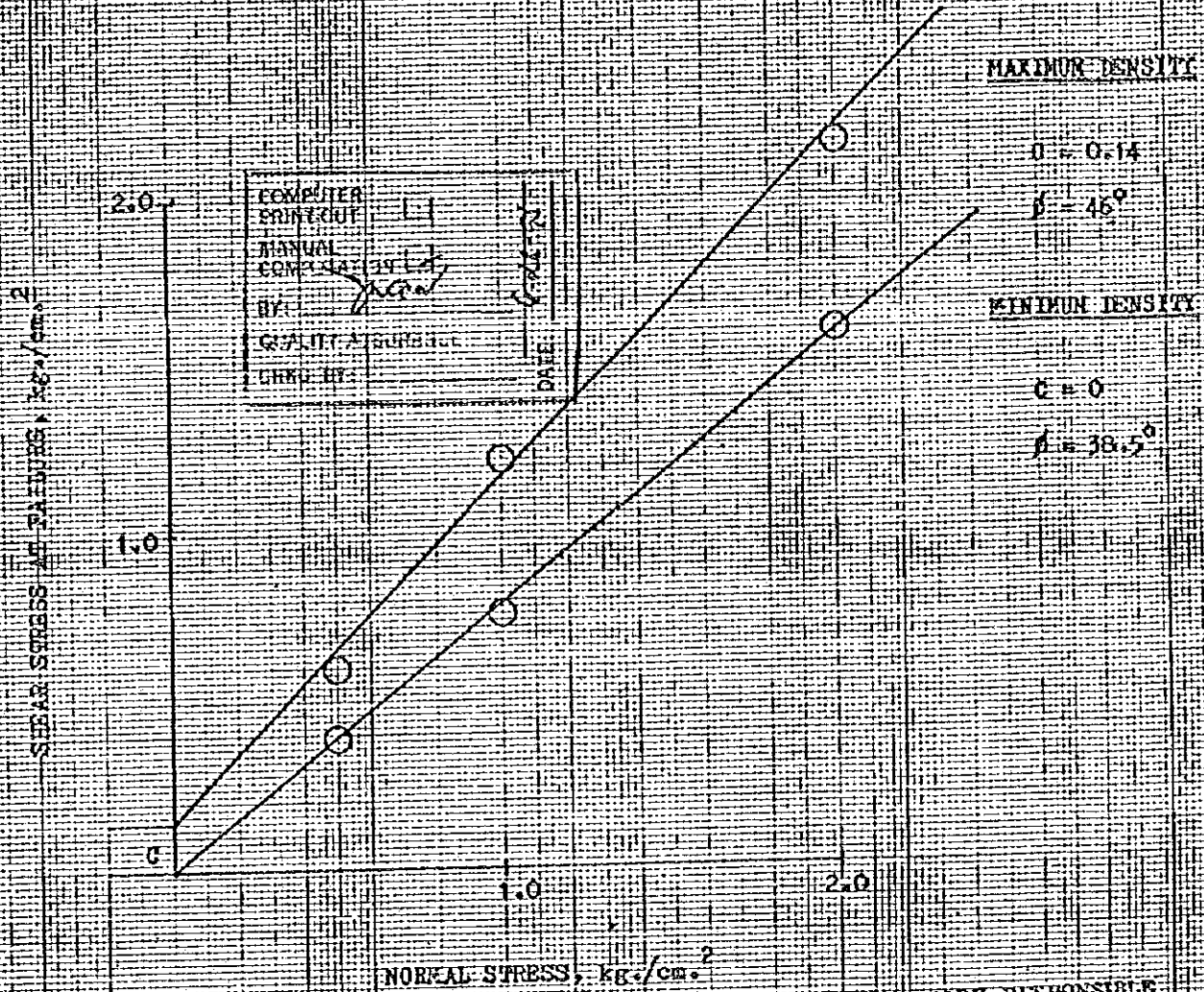
CHECKED BY: **J&Y**

SAMPLE: **BH-3** DEPTH **9.55 M.**

DATE TESTED: **06-20-95**

DATE FINISHED: **06-20-95**

DIRECT SHEAR TEST



THIS LABORATORY RESPONSIBLE FOR TEST ONLY

[Signature]
EMILIO A. MORALES, MSCE
CIVIL ENGINEER
PRC REG. NO. E1236

PHILIPPINE

GEONALYTICS

COMPUTER PRINTOUT
DETAILS PREPARED

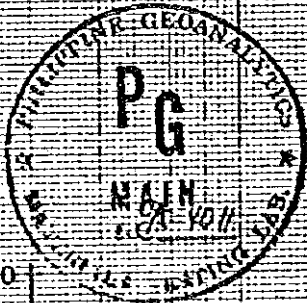
SHEET 3 OF 4

PROJECT: **PINATUBO**
LOCATION: **DOLORES CONSOLIDATION DAM**
SAMPLE: **BH-3** DEPTH: **9.55 M.**

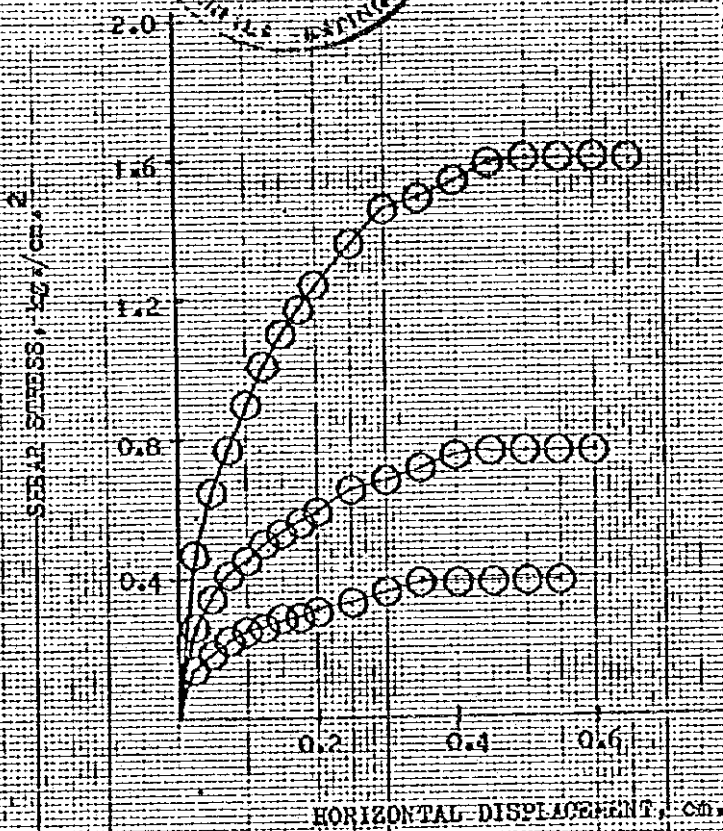
JOB NO:
TESTED BY: **GAM**
DATE TESTED: **06-20-95**

CROSS REFERENCE:
CHECKED BY: **JEV**
DATE FINISHED: **06-20-95**

DIRECT SHEAR TEST (MINIMUM DENSITY)



COMPUTER PRINTOUT	<input type="checkbox"/>
MINIMAL CONSOLIDATION	<input checked="" type="checkbox"/>
BY: GAM	6-20-95
QUALITY ASSURANCE	<input type="checkbox"/>
CHECKED BY: JEV	6-20-95



$P = 2.0 \text{ kg./cm.}^2$

Shear Stress = **1.5985**
Horizontal Displacement = **0.50 cm.**

$P = 1.0 \text{ kg./cm.}^2$

Shear Stress = **0.7589**
Horizontal Displacement = **0.45 cm.**

$P = 0.5 \text{ kg./cm.}^2$

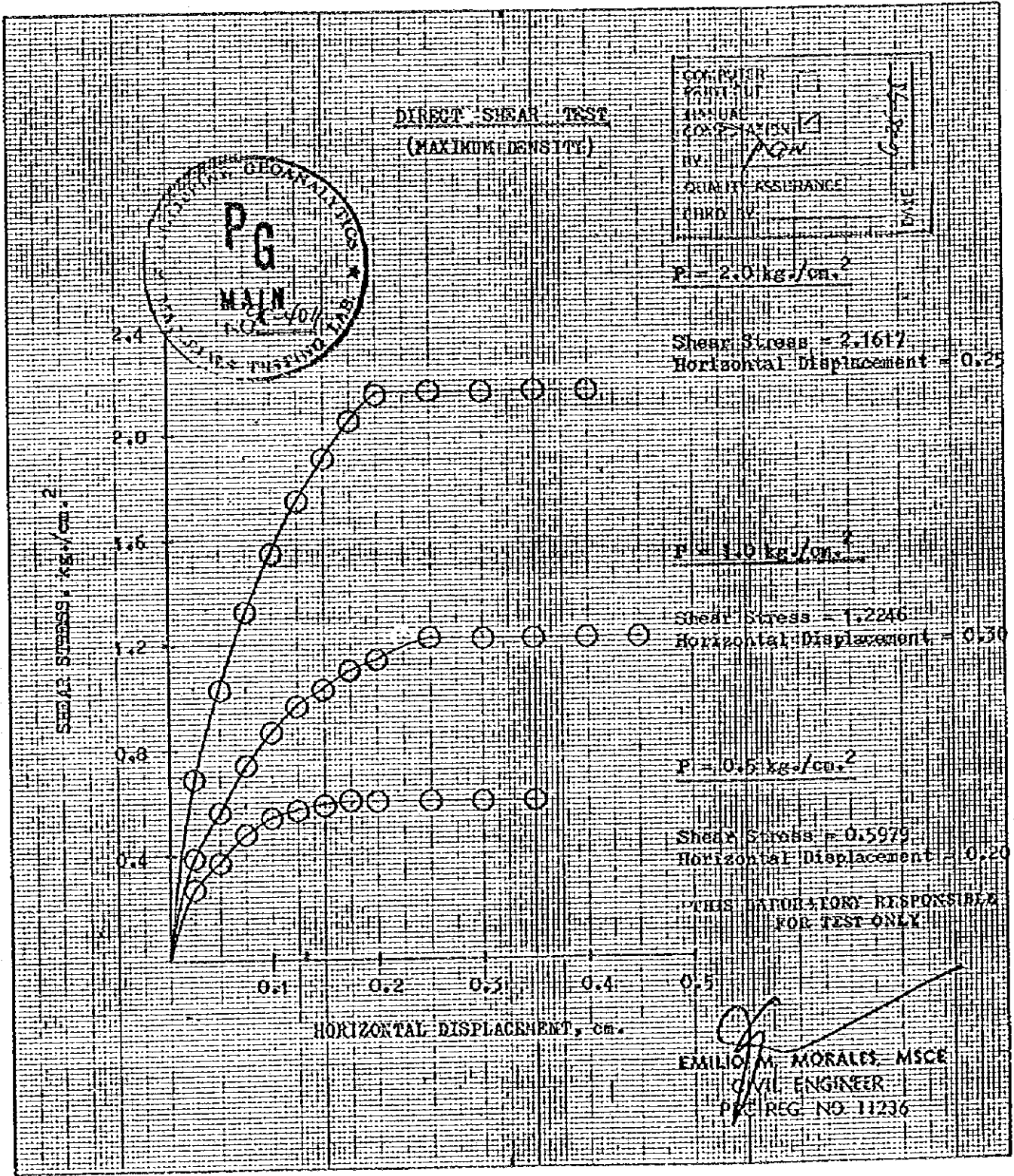
Shear Stress = **0.4350**
Horizontal Displacement = **0.40 cm.**

~~THIS LABORATORY RESPONSE IS FOR TEST ONLY~~

EMILIO M. MORALES, MSCE
CIVIL ENGINEER
PRC REG. NO. **11236**

1 KN = 101.971 Kgf
1 CM = 25.3446 mm

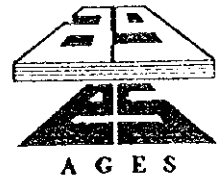
PHILIPPINE GEONALYTICS PROJECT: PINATUBO. LOCATION: DOLORES CONSOLIDATION DAM SAMPLE: BH-3 DEPTH: 9.55 M.	COMPUTER PRINTOUT <input type="checkbox"/> DETAILS PREPARED <input type="checkbox"/>	SHEET 4 of 4
	JOB NO:	CROSS REFERENCE:
	TESTED BY: CAM DATE TESTED: 06-20-095	CHECKED BY: JEV DATE FINISHED: 06-20-95



1 KN = 101.972 Kg
 1 Kg = 2.20462 lbs

PART VI

COMPACTION TEST RESULTS



COMPACTION TEST

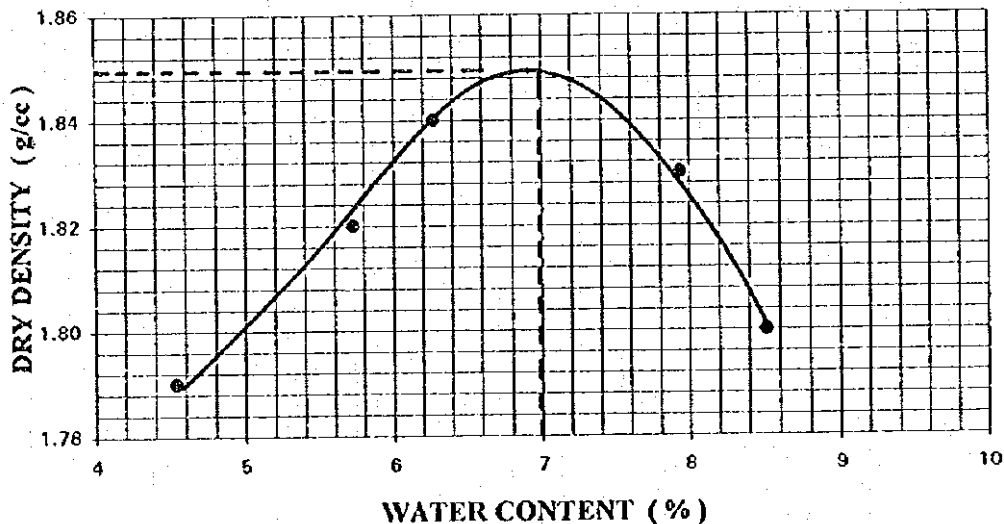
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : TM-1 Sabo Dam TEST PIT NO.: 1 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 24, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	A4	E1	379	Luis	75	105	Grace	JR	7X	200
WT. OF CAN+WET SOIL, g	204.50	217.90	226.90	228.30	217.10	222.20	194.40	219.10	203.20	219.10
WT. OF CAN+DRY SOIL, g	196.90	208.60	213.80	219.20	206.10	210.00	180.00	206.60	189.40	203.20
WT. OF WATER, g	7.60	9.30	13.10	9.10	11.00	12.20	14.40	12.50	13.80	15.90
WT. OF CAN, g	18.00	16.00	21.90	22.60	23.70	22.80	21.40	22.90	21.40	22.90
WT. OF DRY SOIL, g	178.90	192.60	191.90	196.60	182.40	187.20	158.60	183.70	168.00	180.30
WATER CONTENT, %	4.25	4.83	6.83	4.63	6.03	6.52	9.08	6.80	8.21	8.82

DENSITY DETERMINATION

AVE WATER CONTENT, %	4.54	5.73	6.27	7.94	8.52
WT. OF SOIL+MOLD, g	11530	11651	11706	11763	11700
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3935	4056	4111	4168	4105
WET DENSITY, g/cc	1.87	1.93	1.95	1.98	1.95
DRY DENSITY, g/cc	1.79	1.82	1.84	1.83	1.80

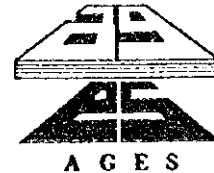


MAXIMUM DRY DENSITY = 1.85 g/cc

OPTIMUM MOISTURE CONTENT = 7.00 %

Note:

Individual grain-particles break into finer materials from hammer impact during the conduct of the tests.



COMPACTION TEST

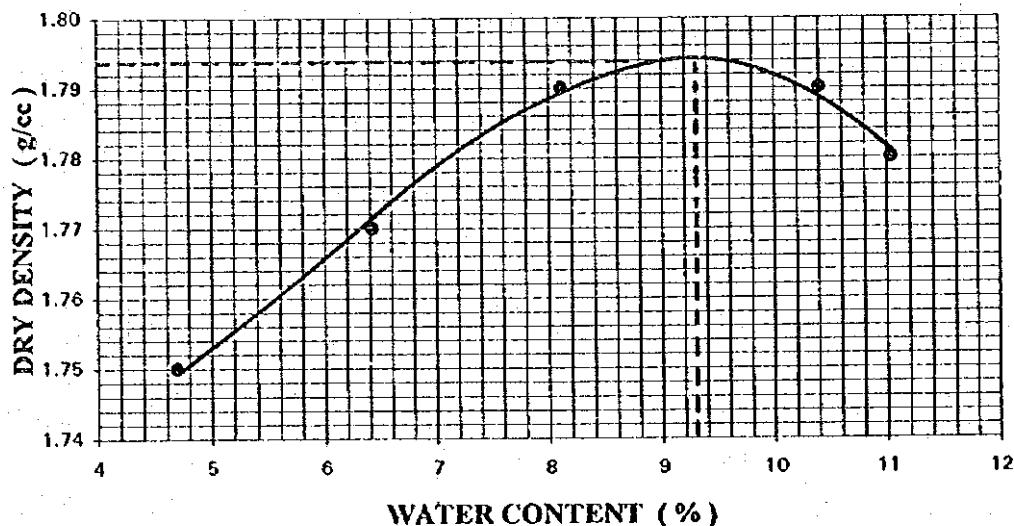
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : TM-1 Sabo Dam TEST PIT NO.: 2 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials DATE: June 24, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.		1		2		3		4		5	
MOISTURE CAN NO.		AGES	364	Phen	253	1041	G21	321	OE7	E1	E5
WT. OF CAN+WET SOIL,	g	214.30	197.20	192.60	179.30	210.00	184.90	186.70	178.50	194.40	219.10
WT. OF CAN+DRY SOIL,	g	204.60	190.30	182.10	169.70	195.50	172.60	170.80	163.10	175.80	201.20
WT. OF WATER,	g	9.70	6.90	10.50	9.60	14.50	12.30	15.90	15.40	18.60	17.90
WT. OF CAN,	g	24.30	18.00	22.40	16.80	22.60	15.90	16.50	16.60	21.40	22.90
WT. OF DRY SOIL,	g	180.30	172.30	159.70	152.90	172.90	156.70	154.30	146.50	154.40	178.30
WATER CONTENT,	%	5.38	4.00	6.57	6.28	8.39	7.85	10.30	10.51	12.05	10.04

DENSITY DETERMINATION

AVE. WATER CONTENT,	%	4.69	6.43	8.12	10.41	11.04
WT. OF SOIL+MOLD,	g	11450	11570	11680	11750	11763
WT. OF MOLD,	g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD,	g	3855	3975	4085	4155	4168
WET DENSITY,	g/cc	1.83	1.89	1.94	1.97	1.98
DRY DENSITY,	g/cc	1.75	1.77	1.79	1.79	1.78



MAXIMUM DRY DENSITY = 1.794 g/cc

OPTIMUM MOISTURE CONTENT = 9.30 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

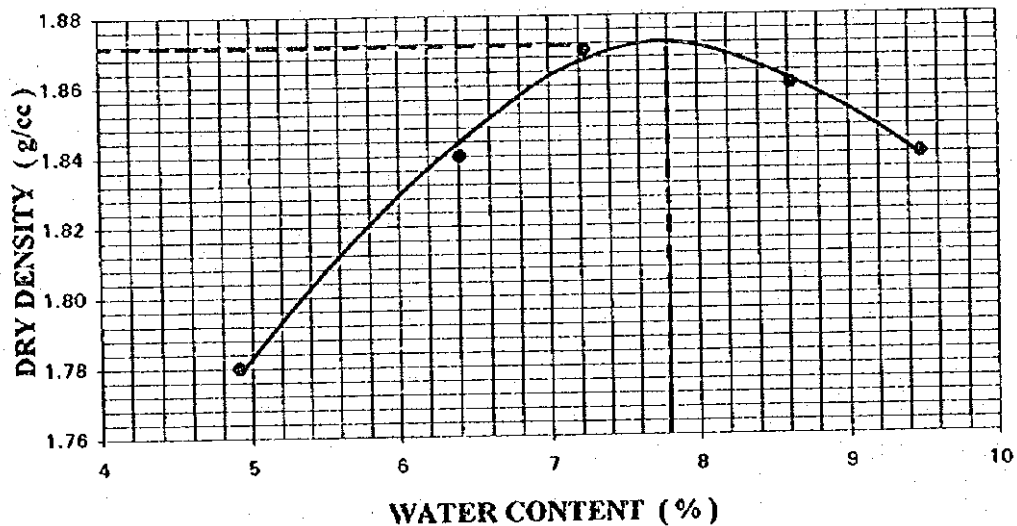
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : TM-1 Sabo Dam TEST PIT NO.: 3 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 24, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	368	1041	E34	321	JR	354	104	1036	320	114
WT. OF CAN+WET SOIL, g	181.90	199.90	178.00	198.00	201.90	205.50	211.20	224.00	233.80	242.00
WT. OF CAN+DRY SOIL, g	175.50	190.50	167.50	187.90	189.70	193.50	195.50	208.60	216.50	222.10
WT. OF WATER, g	6.40	9.40	10.50	10.10	12.20	12.00	15.70	15.40	17.30	19.90
WT. OF CAN, g	25.40	21.50	16.00	16.50	22.90	26.00	19.20	24.00	24.70	22.10
WT. OF DRY SOIL, g	150.10	169.00	151.50	171.40	166.80	167.50	176.30	184.60	191.80	200.00
WATER CONTENT, %	4.26	5.56	6.93	5.89	7.31	7.16	8.91	8.34	9.02	9.95

DENSITY DETERMINATION

AVERAGE WATER CONTENT, %		4.91	6.41	7.24	8.62	9.48
WT. OF SOIL+MOLD, g		11530	11720	11820	11850	11830
WT. OF MOLD, g		7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g		3935	4125	4225	4255	4235
WET DENSITY, g/cc		1.87	1.96	2.01	2.02	2.01
DRY DENSITY, g/cc		1.78	1.84	1.87	1.86	1.84



MAXIMUM DRY DENSITY = 1.87 g/cc

OPTIMUM MOISTURE CONTENT = 7.80 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

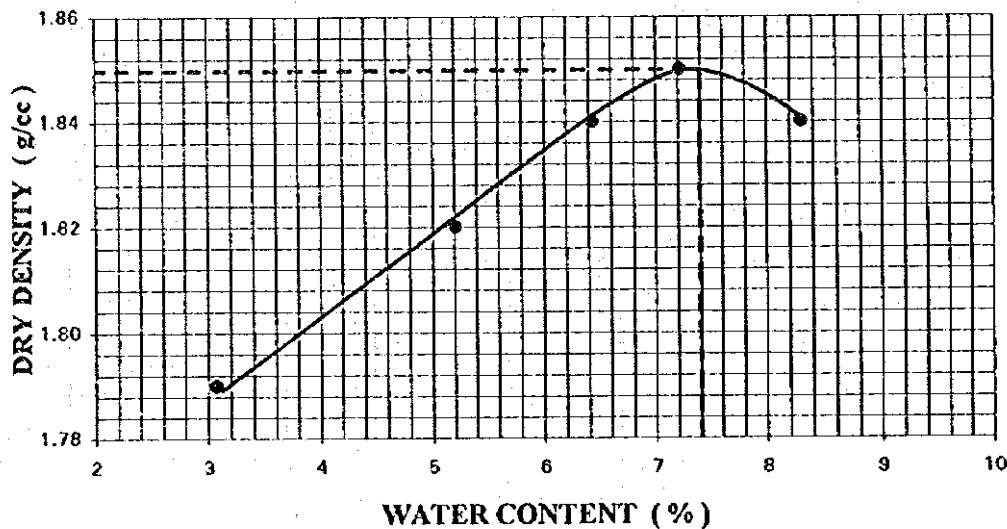
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : TM-I Sabo Dam TEST PIT NO.: 4 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 24, 1995
 TEST PROCEDURE: ASIM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	93	25X	E1	282	105	88	1030	E01	75	AGES
WT. OF CAN+WET SOIL, g	162.50	164.50	184.50	186.50	202.50	202.90	214.50	215.50	218.50	219.40
WT. OF CAN+DRY SOIL, g	158.50	160.00	175.80	178.80	190.10	193.50	201.50	202.50	203.50	204.50
WT. OF WATER, g	4.00	4.50	8.70	7.70	12.40	9.40	13.00	13.00	15.00	14.90
WT. OF CAN, g	25.80	16.80	16.00	24.30	22.80	21.50	27.60	15.80	23.60	24.30
WT. OF DRY SOIL, g	132.70	143.20	159.80	154.50	167.30	172.00	173.90	186.70	179.90	180.20
WATER CONTENT, %	3.01	3.14	5.44	4.98	7.41	5.47	7.48	6.96	8.34	8.27

DENSITY DETERMINATION

AVE. WATER CONTENT, %	3.08	5.21	6.44	7.22	8.30
WT. OF SOIL+MOLD, g	11480	11620	11710	11770	11800
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3885	4025	4115	4175	4205
WET DENSITY, g/cc	1.85	1.91	1.95	1.98	2.00
DRY DENSITY, g/cc	1.79	1.82	1.84	1.85	1.84



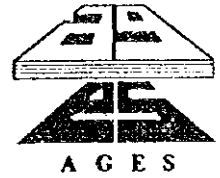
MAXIMUM DRY DENSITY = 1.85 g/cc

OPTIMUM MOISTURE CONTENT = 7.40 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.

COMPACTION TEST



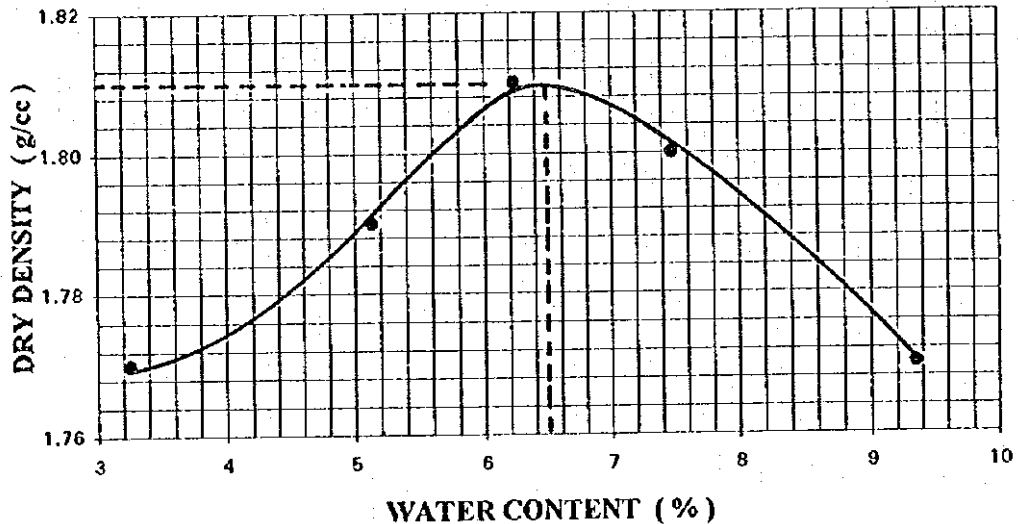
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : TM-1 Sabo Dam TEST PIT NO.: 5 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 24, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	G02	A10	E25	383	1051	115	E24	1041	253	280
WT. OF CAN+WET SOIL, g	164.90	177.40	183.90	190.00	225.00	238.30	245.00	250.00	263.10	265.80
WT. OF CAN+DRY SOIL, g	160.40	172.20	177.90	181.50	213.50	225.50	229.90	233.50	241.50	245.10
WT. OF WATER, g	4.50	5.20	6.00	8.50	11.50	12.80	15.10	16.50	21.60	20.70
WT. OF CAN, g	16.60	18.80	60.00	17.60	25.90	24.00	15.60	24.80	16.80	17.30
WT. OF DRY SOIL, g	143.80	153.40	117.90	163.90	187.60	201.50	214.30	208.70	224.70	227.80
WATER CONTENT, %	3.13	3.39	5.09	5.19	6.13	6.35	7.05	7.91	9.61	9.09

DENSITY DETERMINATION

AVE. WATER CONTENT, %	3.26	5.14	6.24	7.48	9.35
WT. OF SOIL+MOLD, g	11435	11550	11650	11660	11670
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3840	3955	4055	4065	4075
WET DENSITY, g/cc	1.82	1.88	1.93	1.93	1.94
DRY DENSITY, g/cc	1.77	1.79	1.81	1.80	1.77

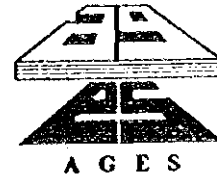


MAXIMUM DRY DENSITY = 1.81 g/cc

OPTIMUM MOISTURE CONTENT = 6.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

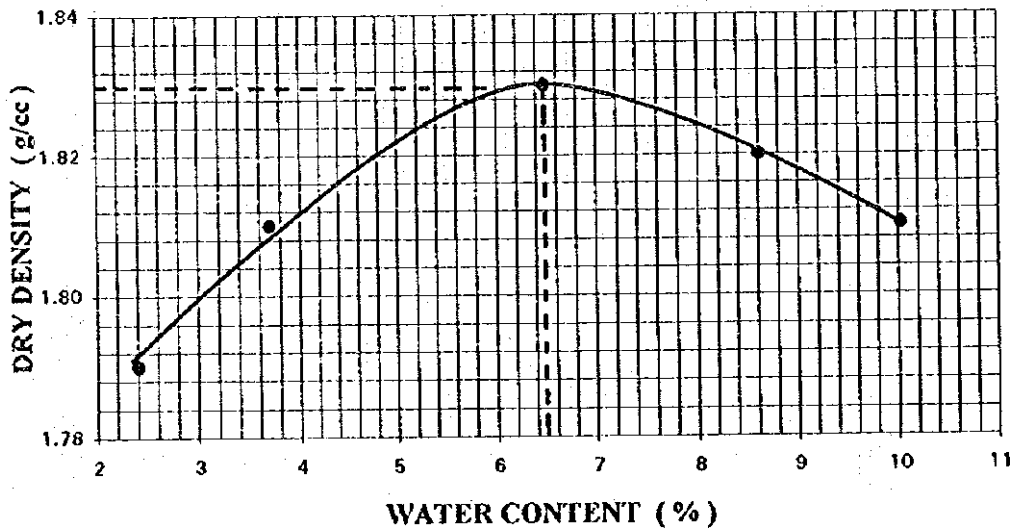
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : TM-1 Sabo Dam TEST PIT NO.: 6 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials DATE: June 24, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	338	200	E37	364	E30	1063	363	84	13X	125
WT. OF CAN+WET SOIL, g	135.50	146.10	211.80	214.20	223.30	231.20	228.50	292.20	235.70	267.50
WT. OF CAN+DRY SOIL, g	132.40	143.50	204.50	207.50	209.50	219.70	210.50	272.50	215.80	245.30
WT. OF WATER, g	3.10	2.60	7.30	6.70	13.80	11.50	18.00	19.70	19.90	22.20
WT. OF CAN, g	16.80	22.20	15.90	18.00	16.40	22.30	16.90	24.10	16.80	24.60
WT. OF DRY SOIL, g	115.60	121.30	188.60	189.50	193.10	197.40	193.60	248.40	199.00	220.70
WATER CONTENT, %	2.68	2.14	3.87	3.54	7.15	5.83	9.30	7.93	10.00	10.06

DENSITY DETERMINATION

AVE. WATER CONTENT, %	2.41	3.70	6.49	8.61	10.03
WT. OF SOIL+MOLD, g	11445	11540	11700	11750	11780
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3850	3945	4105	4155	4185
WET DENSITY, g/cc	1.83	1.87	1.95	1.97	1.99
DRY DENSITY, g/cc	1.79	1.81	1.83	1.82	1.81

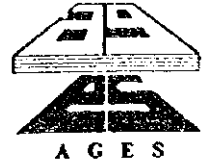


MAXIMUM DRY DENSITY = 1.83 g/cc

OPTIMUM MOISTURE CONTENT = 6.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

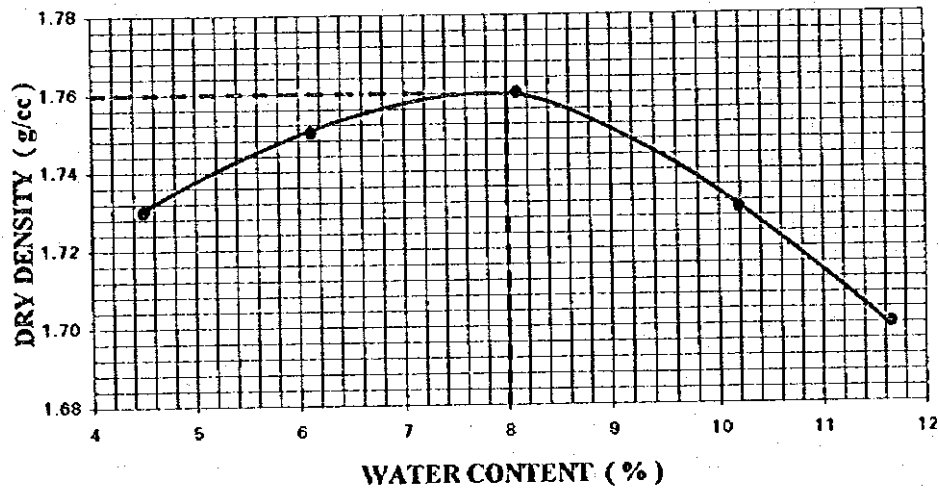
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #6 TEST PIT NO.: 1 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 22, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abae
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	E27	Epis	E2	E20	SM	E16	E34	1018	E48	357
WT. OF CAN+WET SOIL, g	172.60	186.50	189.70	199.50	211.50	222.50	234.50	264.50	282.40	294.50
WT. OF CAN+DRY SOIL, g	165.80	179.20	180.00	188.90	196.40	207.50	215.60	240.50	254.20	266.70
WT. OF WATER, g	6.80	7.30	9.70	10.60	15.10	15.00	18.90	24.00	28.20	27.80
WT. OF CAN, g	15.80	15.67	18.65	18.80	15.80	16.10	15.50	21.40	15.60	25.00
WT. OF DRY SOIL, g	150.00	163.53	161.35	170.10	180.60	191.40	200.10	219.10	238.60	241.70
WATER CONTENT, %	4.53	4.46	6.01	6.23	8.36	7.84	9.45	10.95	11.82	11.50

DENSITY DETERMINATION

AVE. WATER CONTENT, %	4.50	6.12	8.10	10.20	11.66
WT. OF SOIL+MOLD, g	11400	11500	11600	11600	11580
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3905	4005	4005	3985
WET DENSITY, g/cc	1.81	1.86	1.90	1.90	1.89
DRY DENSITY, g/cc	1.73	1.75	1.76	1.73	1.70



MAXIMUM DRY DENSITY = 1.76 g/cc

OPTIMUM MOISTURE CONTENT = 8.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

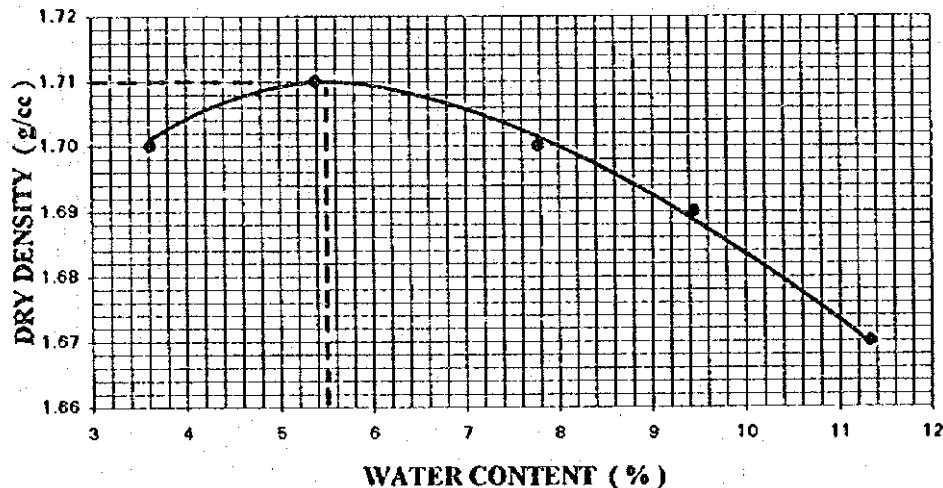
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #6 TEST PIT NO.: 2 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 22, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2101.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	20X	94	R3	E19	Tina	A4	1270	Grace	J6	43X
WT. OF CAN+WET SOIL, g	156.50	167.50	187.50	189.50	196.50	198.50	208.50	215.50	240.50	266.50
WT. OF CAN+DRY SOIL, g	151.90	162.30	180.00	180.00	183.50	185.50	192.50	198.20	215.50	243.80
WT. OF WATER, g	4.60	5.20	7.50	9.50	13.00	13.00	16.00	17.30	25.00	22.70
WT. OF CAN, g	17.80	25.60	26.60	19.00	16.30	18.60	17.20	21.40	18.60	16.00
WT. OF DRY SOIL, g	134.10	136.70	153.40	161.00	167.20	166.90	175.30	176.80	196.90	227.80
WATER CONTENT, %	3.43	3.80	4.89	5.90	7.78	7.79	9.13	9.79	12.70	9.96

DENSITY DETERMINATION

AVE WATER CONTENT, %	3.62	5.39	7.78	9.46	11.33
WT. OF SOIL+MOLD, g	11300	11390	11450	11498	11510
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3705	3795	3855	3903	3915
WET DENSITY, g/cc	1.76	1.80	1.83	1.85	1.86
DRY DENSITY, g/cc	1.70	1.71	1.70	1.69	1.67

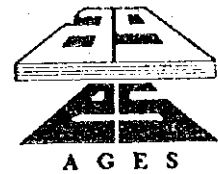


MAXIMUM DRY DENSITY = 1.71 g/cc

OPTIMUM MOISTURE CONTENT = 5.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

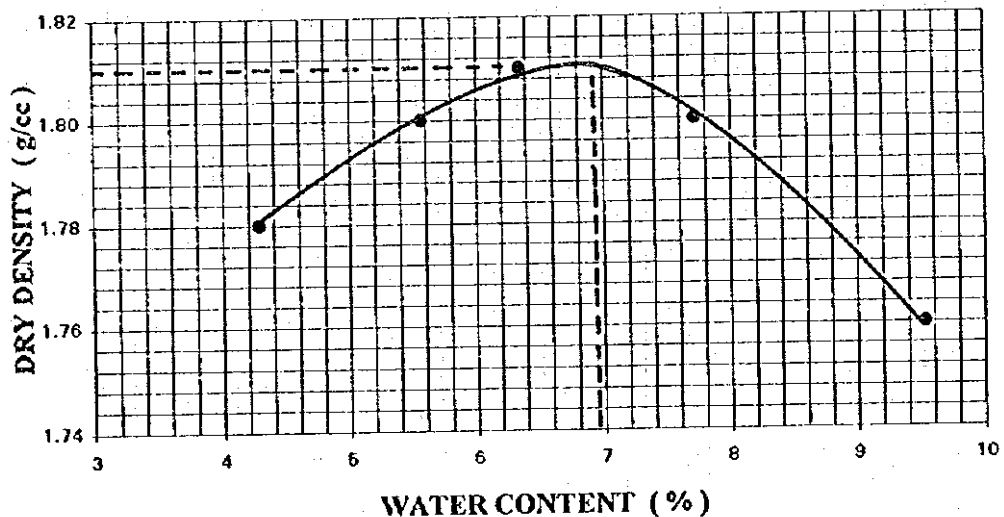
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #6 TEST PIT NO.: 3 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 22, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	1027	342	302	397	1270	307	Epis	A10	43X	110
WT. OF CAN+WET SOIL, g	144.80	146.50	178.50	189.60	209.50	212.50	223.50	233.50	242.50	253.50
WT. OF CAN+DRY SOIL, g	139.50	141.50	170.50	180.50	198.30	200.50	208.50	218.20	223.40	232.80
WT. OF WATER, g	5.30	5.00	8.00	9.10	11.20	12.00	15.00	15.30	19.10	20.70
WT. OF CAN, g	23.10	17.00	17.20	26.70	17.20	16.50	15.70	18.80	16.00	22.60
WT. OF DRY SOIL, g	116.40	124.50	153.30	153.80	181.10	184.00	192.80	199.40	207.40	210.20
WATER CONTENT, %	4.55	4.02	5.22	5.92	6.18	6.52	7.78	7.67	9.21	9.85

DENSITY DETERMINATION

AVE. WATER CONTENT, %		4.28	5.57	6.35	7.73	9.53
WT. OF SOIL+MOLD, g		11500	11590	11650	11680	11650
WT. OF MOLD, g		7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g		3905	3995	4055	4085	4055
WET DENSITY, g/cc		1.86	1.90	1.93	1.94	1.93
DRY DENSITY, g/cc		1.78	1.80	1.81	1.80	1.76



MAXIMUM DRY DENSITY = 1.81 g/cc

OPTIMUM MOISTURE CONTENT = 7.00 %

Note:

Individual grain-particles break into finer materials from hammer impact during the conduct of the tests.



COMPACTION TEST

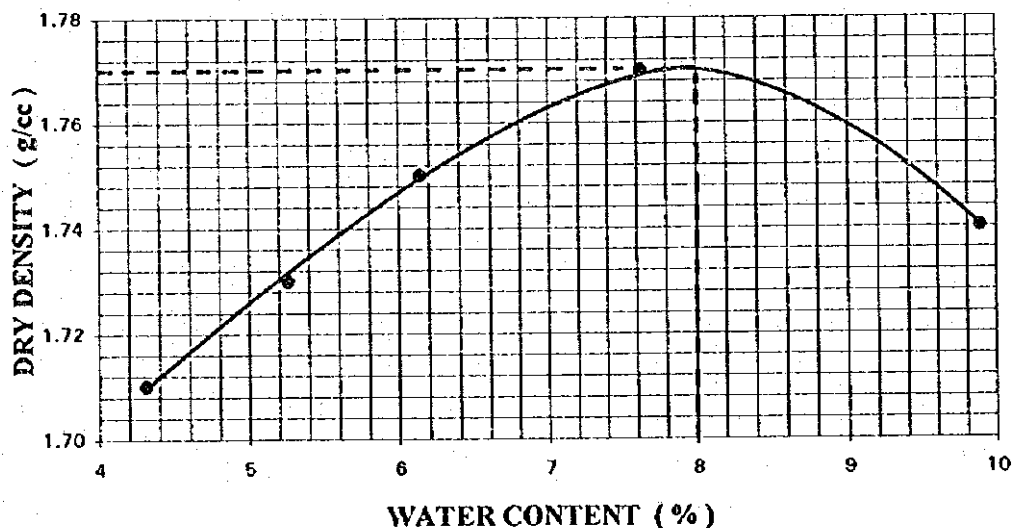
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #6 TEST PIT NO.: 4 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 23, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	S3	B5	G20	R3	E34	83	7X	128	103	Bing
WT. OF CAN+WET SOIL, g	145.50	165.50	182.50	194.50	201.50	207.50	220.00	230.00	242.90	244.90
WT. OF CAN+DRY SOIL, g	140.20	159.50	174.50	185.80	189.40	198.10	206.50	214.20	223.50	224.50
WT. OF WATER, g	5.30	6.00	8.00	8.70	12.10	9.40	13.50	15.80	19.40	20.40
WT. OF CAN, g	18.90	18.80	16.40	26.60	15.50	22.00	15.60	21.50	21.50	24.20
WT. OF DRY SOIL, g	121.30	140.70	158.10	159.20	173.90	176.10	190.90	192.70	202.00	200.30
WATER CONTENT, %	4.37	4.26	5.06	5.46	6.96	5.34	7.07	8.20	9.60	10.18

DENSITY DETERMINATION

AVE WATER CONTENT, %	4.32	5.26	6.15	7.64	9.89
WT. OF SOIL+MOLD, g	11350	11430	11500	11600	11630
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3755	3835	3905	4005	4035
WET DENSITY, g/cc	1.78	1.82	1.86	1.90	1.92
DRY DENSITY, g/cc	1.71	1.73	1.75	1.77	1.74



MAXIMUM DRY DENSITY = 1.77 g/cc

OPTIMUM MOISTURE CONTENT = 8.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

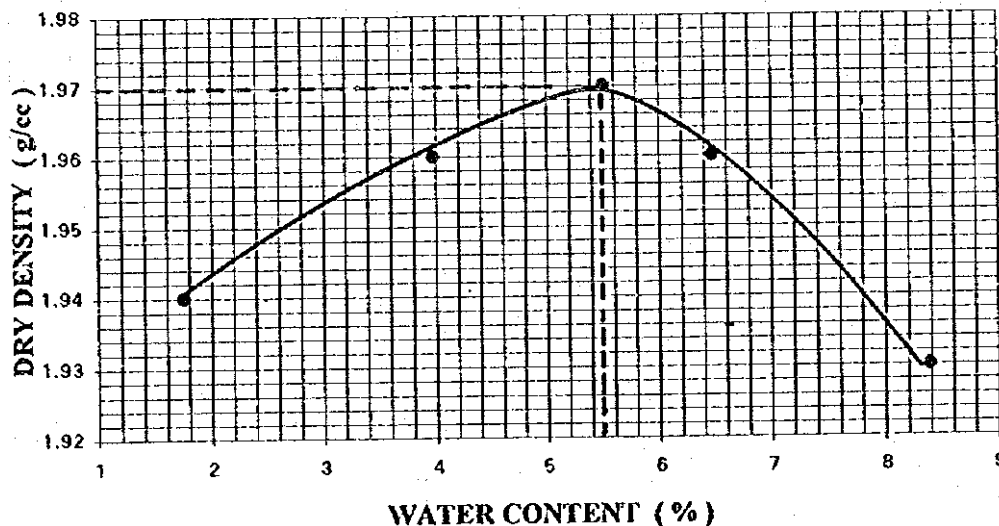
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #6 TEST PIT NO.: 5 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials DATE: June 23, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	JC	295	E16	358	1005	7Seas	E42	E500	JLA	1051
WT. OF CAN+WET SOIL, g	170.50	184.50	203.50	205.90	200.00	201.00	215.70	206.30	214.10	225.50
WT. OF CAN+DRY SOIL, g	168.00	181.50	196.50	198.50	190.90	192.00	202.80	195.40	199.30	210.00
WT. OF WATER, g	2.50	3.00	7.00	7.40	9.10	9.00	12.90	10.90	14.80	15.50
WT. OF CAN, g	19.40	16.90	16.10	16.90	27.60	27.00	15.80	15.55	22.20	25.90
WT. OF DRY SOIL, g	148.60	164.60	180.40	181.60	163.30	165.00	187.00	179.85	177.10	184.10
WATER CONTENT, %	1.68	1.82	3.88	4.07	5.57	5.45	6.90	6.06	8.36	8.42

DENSITY DETERMINATION

AVE. WATER CONTENT, %	1.75	3.98	5.51	6.48	8.39
WT. OF SOIL+MOLD, g	11750	11880	11960	11980	12000
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	4155	4285	4365	4385	4405
WET DENSITY, g/cc	1.97	2.04	2.07	2.08	2.09
DRY DENSITY, g/cc	1.94	1.96	1.97	1.96	1.93



MAXIMUM DRY DENSITY = 1.97 g/cc

OPTIMUM MOISTURE CONTENT = 5.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

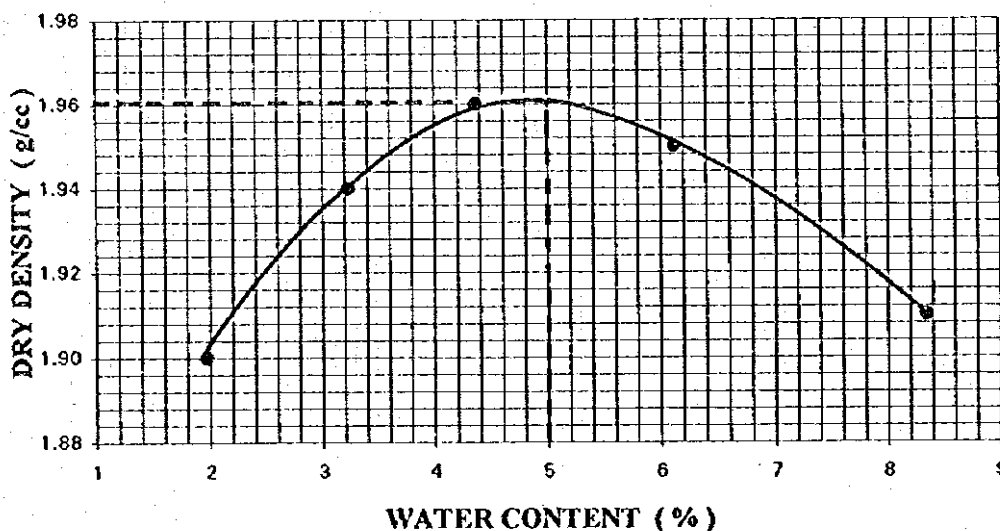
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #6 TEST PIT NO.: 6 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials DATE: June 23, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	E48	Tina	94	270	1005	85	37X	81	274	357
WT. OF CAN+WET SOIL, g	156.50	159.40	161.50	170.00	191.50	205.50	208.50	209.50	238.30	241.90
WT. OF CAN+DRY SOIL, g	153.90	156.50	157.10	165.40	184.00	198.40	197.40	199.10	221.60	224.50
WT. OF WATER, g	2.60	2.90	4.40	4.60	7.50	7.10	11.10	10.40	16.70	17.40
WT. OF CAN, g	15.60	16.30	25.60	18.00	24.10	22.60	15.80	29.60	12.20	25.00
WT. OF DRY SOIL, g	138.30	140.20	131.50	147.40	159.90	175.80	181.60	169.50	209.40	199.50
WATER CONTENT, %	1.88	2.07	3.35	3.12	4.69	4.04	6.11	6.14	7.98	8.72

DENSITY DETERMINATION

AVE. WATER CONTENT, %	1.97	3.23	4.36	6.12	8.35
WT. OF SOIL+MOLD, g	11680	11800	11900	11950	11940
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	4085	4205	4305	4355	4345
WET DENSITY, g/cc	1.94	2.00	2.05	2.07	2.06
DRY DENSITY, g/cc	1.90	1.94	1.96	1.95	1.91

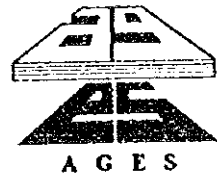


MAXIMUM DRY DENSITY = 1.96 g/cc

OPTIMUM MOISTURE CONTENT = 5.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

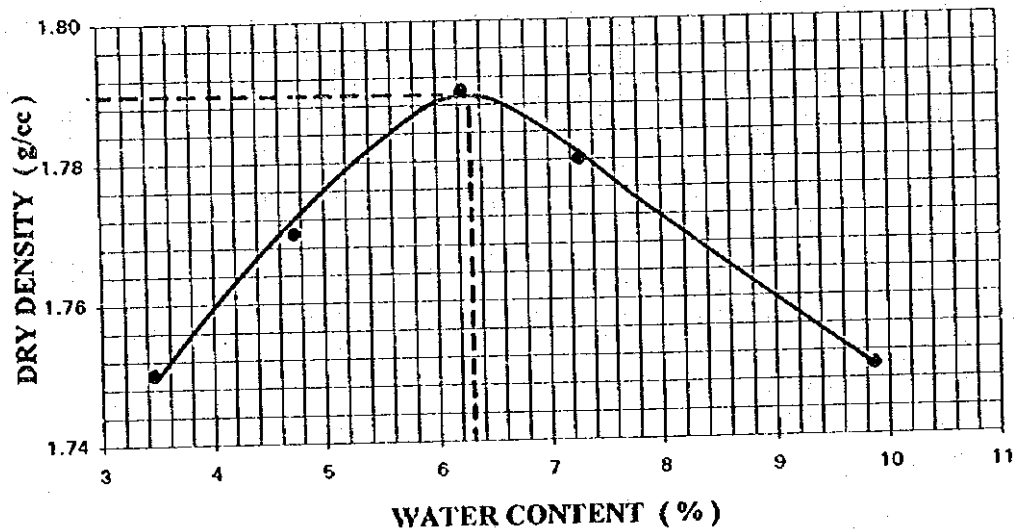
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #9 TEST PIT NO.: 1 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 21, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	1041	E500	399	B5	B6	278	7X	D9	101	7Seas
WT. OF CAN+WET SOIL, g	160.50	167.50	187.50	202.50	205.50	207.60	215.50	217.50	222.50	240.50
WT. OF CAN+DRY SOIL, g	155.90	162.50	179.50	194.50	194.50	196.50	201.50	204.50	204.50	221.50
WT. OF WATER, g	4.60	5.00	8.00	8.00	11.00	11.10	14.00	13.00	18.00	19.00
WT. OF CAN, g	25.40	15.50	16.80	18.80	19.10	17.70	16.30	18.90	24.10	27.00
WT. OF DRY SOIL, g	130.50	147.00	162.70	175.70	175.40	178.80	185.20	185.60	180.40	194.50
WATER CONTENT, %	3.52	3.40	4.92	4.55	6.27	6.21	7.56	7.00	9.98	9.77

DENSITY DETERMINATION

AVE. WATER CONTENT, %		3.46	4.74	6.24	7.28	9.87
WT. OF SOIL+MOLD, g		11400	11500	11600	11610	11650
WT. OF MOLD, g		7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g		3805	3905	4005	4015	4055
WET DENSITY, g/cc		1.81	1.86	1.90	1.91	1.93
DRY DENSITY, g/cc		1.75	1.77	1.79	1.78	1.75



MAXIMUM DRY DENSITY = 1.79 g/cc

OPTIMUM MOISTURE CONTENT = 6.30 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

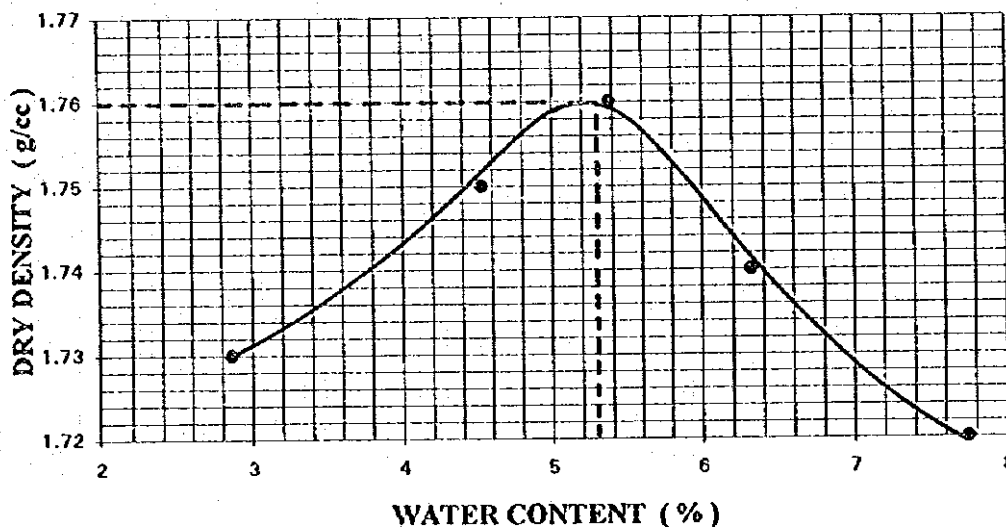
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #9 TEST PIT NO.: 2 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 21, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	Luis	G07	OE1	379	302	37X	E1	128	81	270
WT. OF CAN+WET SOIL, g	166.80	169.50	189.50	195.50	201.50	203.50	205.70	209.90	233.50	226.50
WT. OF CAN+DRY SOIL, g	162.50	165.50	182.50	187.50	193.50	192.50	194.50	198.50	218.80	211.50
WT. OF WATER, g	4.30	4.00	7.00	8.00	8.00	11.00	11.20	11.40	14.70	15.00
WT. OF CAN, g	21.80	16.00	16.60	22.50	17.20	15.80	13.80	21.50	29.00	18.00
WT. OF DRY SOIL, g	140.70	149.50	165.90	165.00	176.30	176.70	180.70	177.00	189.80	193.50
WATER CONTENT, %	3.06	2.68	4.22	4.85	4.54	6.23	6.20	6.44	7.74	7.75

DENSITY DETERMINATION

AVE. WATER CONTENT, %	2.87	4.53	5.38	6.32	7.75
WT. OF SOIL+MOLD, g	11350	11440	11500	11490	11500
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3755	3845	3905	3895	3905
WET DENSITY, g/cc	1.78	1.83	1.86	1.85	1.86
DRY DENSITY, g/cc	1.73	1.75	1.76	1.74	1.72



MAXIMUM DRY DENSITY = 1.76 g/cc

OPTIMUM MOISTURE CONTENT = 5.30 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

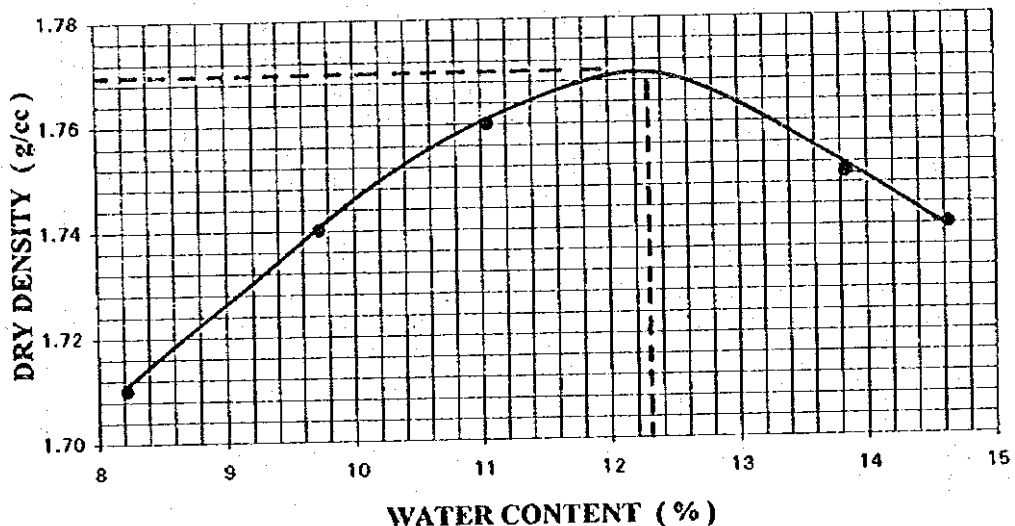
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #9 TEST PIT NO.: 3 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 21, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	Z	390	E42	G21	Phen	297	346	E50	G17	1011
WT. OF CAN+WET SOIL, g	221.50	241.50	185.50	208.50	178.50	199.50	216.50	221.50	239.90	259.50
WT. OF CAN+DRY SOIL, g	206.50	224.50	169.50	192.50	161.20	182.50	192.20	196.50	212.50	228.50
WT. OF WATER, g	15.00	17.00	16.00	16.00	17.30	17.00	24.30	25.00	27.40	31.00
WT. OF CAN, g	17.90	24.60	15.80	15.90	15.80	15.90	17.20	15.20	15.60	26.70
WT. OF DRY SOIL, g	188.60	199.90	153.70	176.60	145.40	166.60	175.00	181.30	196.90	201.80
WATER CONTENT, %	7.95	8.50	10.41	9.06	11.90	10.20	13.89	13.79	13.92	15.36

DENSITY DETERMINATION

AVE. WATER CONTENT, %	8.23	9.73	11.05	13.84	14.64
WT. OF SOIL+MOLD, g	11500	11620	11700	11800	11800
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3905	4025	4105	4205	4205
WET DENSITY, g/cc	1.86	1.91	1.95	2.00	2.00
DRY DENSITY, g/cc	1.71	1.74	1.76	1.75	1.74



MAXIMUM DRY DENSITY = 1.77 g/cc

OPTIMUM MOISTURE CONTENT = 12.30 %

Note:

Individual grain-particles break into finer materials from hammer impact during the conduct of the tests.



COMPACTION TEST

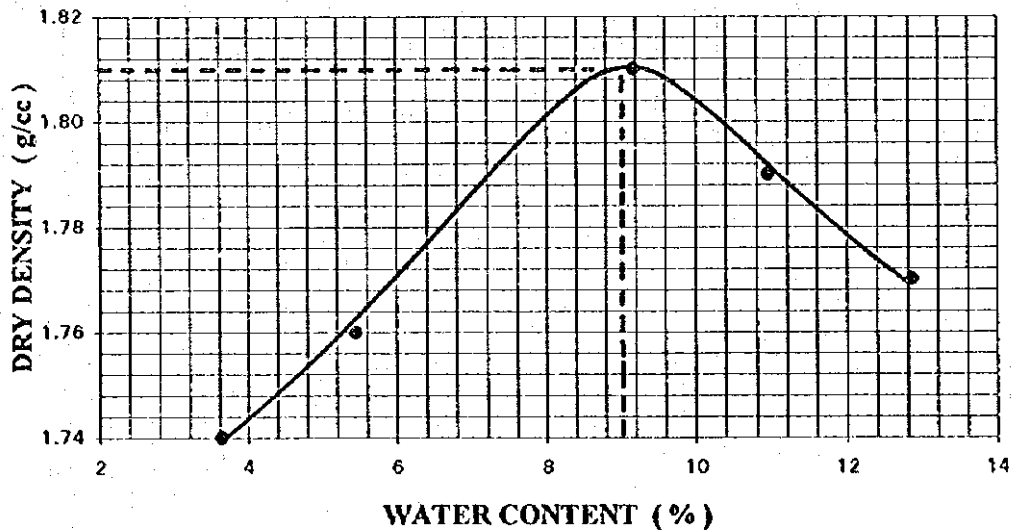
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #9 TEST PIT NO.: 4 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 21, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	S3	1005	347	1056	274	109	1009	Butch	1043	85
WT. OF CAN+WET SOIL, g	181.50	222.50	200.50	224.50	244.50	259.50	271.50	290.00	284.50	270.50
WT. OF CAN+DRY SOIL, g	177.50	213.50	191.50	213.50	225.50	240.00	246.90	264.20	255.50	241.50
WT. OF WATER, g	4.00	9.00	9.00	11.00	19.00	19.50	24.60	25.80	29.00	29.00
WT. OF CAN, g	18.80	24.10	16.60	22.30	17.20	28.90	27.60	22.70	22.60	22.70
WT. OF DRY SOIL, g	158.70	189.40	174.90	191.20	208.30	211.10	219.30	241.50	232.90	218.80
WATER CONTENT, %	2.52	4.75	5.15	5.75	9.12	9.24	11.22	10.68	12.45	13.25

DENSITY DETERMINATION

AVE. WATER CONTENT, %	3.64	5.45	9.18	10.95	12.85
WT. OF SOIL+MOLD, g	11400	11500	11750	11780	11800
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3905	4155	4185	4205
WET DENSITY, g/cc	1.81	1.86	1.97	1.99	2.00
DRY DENSITY, g/cc	1.74	1.76	1.81	1.79	1.77

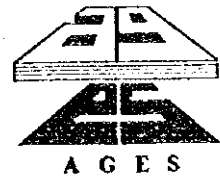


MAXIMUM DRY DENSITY = 1.81 g/cc

OPTIMUM MOISTURE CONTENT = 9.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

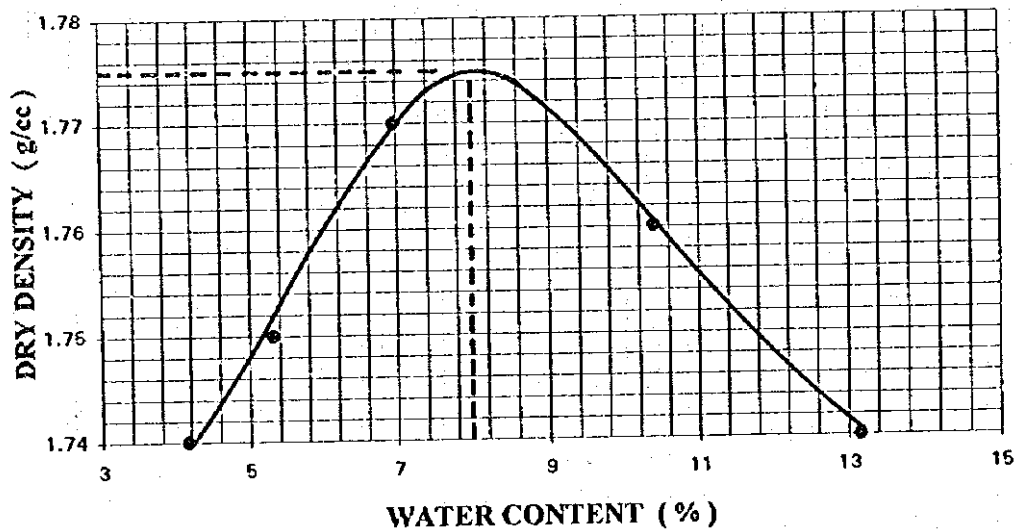
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #9 TEST PIT NO.: 5 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 21, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	365	323	E25	E36	397	298	110	295	342	1027
WT. OF CAN+WET SOIL, g	205.50	196.50	200.00	220.10	221.50	214.50	234.00	211.30	213.50	234.20
WT. OF CAN+DRY SOIL, g	197.50	190.00	190.50	210.40	208.50	202.40	213.50	193.50	190.80	209.50
WT. OF WATER, g	8.00	6.50	9.50	9.70	13.00	12.10	20.50	17.80	22.70	24.70
WT. OF CAN, g	22.30	17.80	17.00	22.30	26.70	24.40	22.20	17.00	17.00	23.10
WT. OF DRY SOIL, g	175.20	172.20	173.50	188.10	181.80	178.00	191.30	176.50	173.80	186.40
WATER CONTENT, %	4.57	3.77	5.48	5.16	7.15	6.80	10.72	10.08	13.06	13.25

DENSITY DETERMINATION

Ave. Water Content, %	4.17	5.32	6.97	10.40	13.16
WT. OF SOIL+MOLD, g	11410	11480	11580	11680	11750
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3815	3885	3985	4085	4155
WET DENSITY, g/cc	1.81	1.85	1.89	1.94	1.97
DRY DENSITY, g/cc	1.74	1.75	1.77	1.76	1.74



MAXIMUM DRY DENSITY = 1.775 g/cc

OPTIMUM MOISTURE CONTENT = 8.00 %

Note: Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

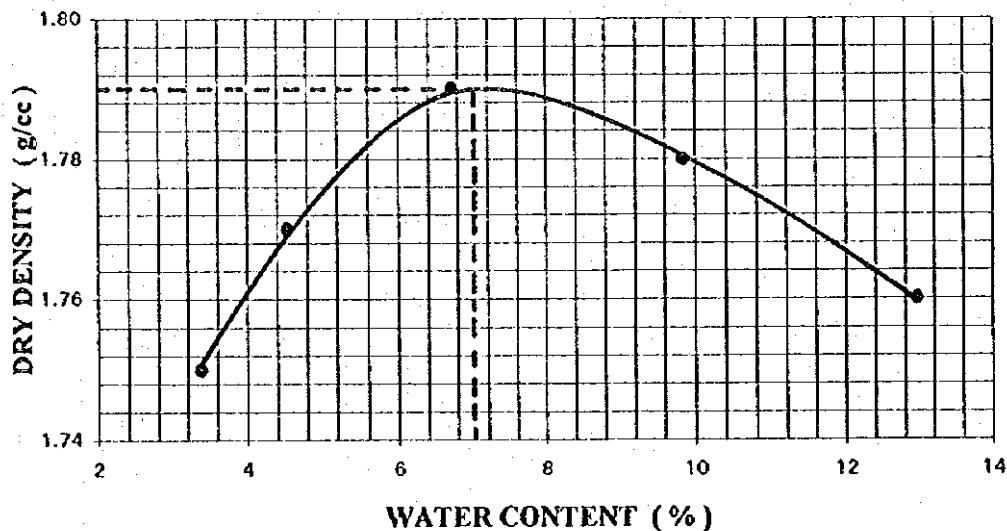
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : Sabo Dam #9 TEST PIT NO.: 6 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray gravelly SAND with pyroclastic materials. DATE: June 21, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	7X	JC	JLA	307	260	392	G20	83	Bing	103
WT. OF CAN+WET SOIL, g	173.70	191.50	224.40	221.70	231.50	246.50	214.50	212.50	242.90	245.90
WT. OF CAN+DRY SOIL, g	168.50	185.90	215.20	213.20	217.90	232.60	197.70	194.50	216.50	221.50
WT. OF WATER, g	5.20	5.60	9.20	8.50	13.60	13.90	16.80	18.00	26.40	24.40
WT. OF CAN, g	15.60	19.50	22.20	16.50	17.00	24.90	16.40	22.00	24.20	21.50
WT. OF DRY SOIL, g	152.90	166.40	193.00	196.70	200.90	207.70	181.30	172.50	192.30	200.00
WATER CONTENT, %	3.40	3.37	4.77	4.32	6.77	6.69	9.27	10.43	13.73	12.20

DENSITY DETERMINATION

AVE. WATER CONTENT, %	3.38	4.54	6.73	9.85	12.96
WT. OF SOIL+MOLD, g	11410	11500	11610	11700	11780
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3815	3905	4015	4105	4185
WET DENSITY, g/cc	1.81	1.86	1.91	1.95	1.99
DRY DENSITY, g/cc	1.75	1.77	1.79	1.78	1.76

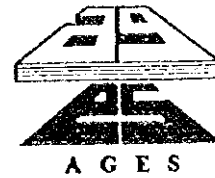


MAXIMUM DRY DENSITY = 1.79 g/cc

OPTIMUM MOISTURE CONTENT = 7.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

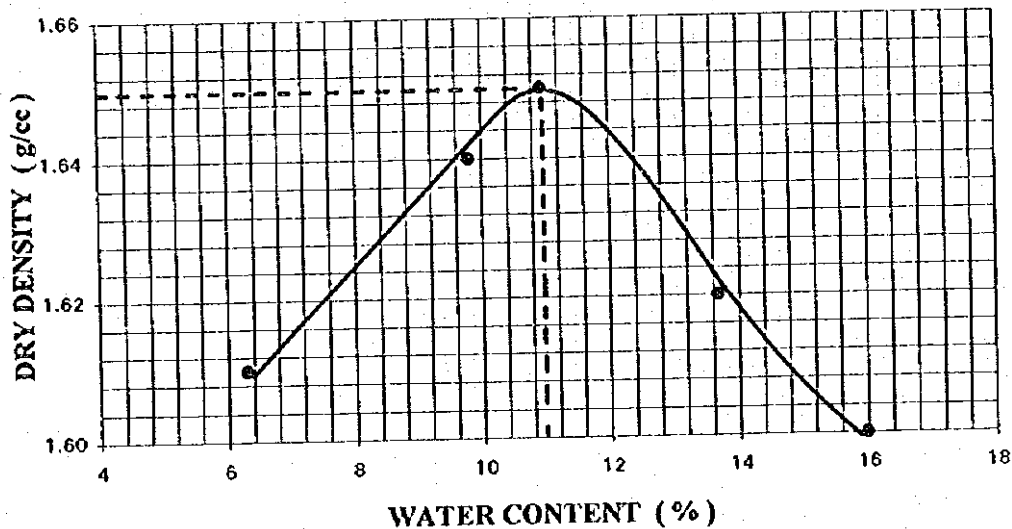
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : MASKUP Consolidation Dam TEST PIT NO.: 1 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 26, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	E36	E13	J2	1026	49X	88	D2	E9	101	A6
WT. OF CAN+WET SOIL, g	196.00	157.50	166.60	191.50	218.50	214.30	174.10	182.70	205.20	209.90
WT. OF CAN+DRY SOIL, g	185.50	149.20	153.00	177.30	199.30	194.50	155.30	163.10	180.00	183.80
WT. OF WATER, g	10.50	8.30	13.60	14.20	19.20	19.80	18.80	19.60	25.20	26.10
WT. OF CAN, g	17.00	18.70	19.00	27.00	15.80	21.50	18.70	18.80	24.10	18.80
WT. OF DRY SOIL, g	168.50	130.50	134.00	150.30	183.50	173.00	136.60	144.30	155.90	165.00
WATER CONTENT, %	6.23	6.36	10.15	9.45	10.46	11.45	13.76	13.58	16.16	15.82

DENSITY DETERMINATION

AVE. WATER CONTENT, %	6.30	9.80	10.95	13.67	15.99
WT. OF SOIL+MOLD, g	11200	11380	11450	11470	11490
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3605	3785	3855	3875	3895
WET DENSITY, g/cc	1.71	1.80	1.83	1.84	1.85
DRY DENSITY, g/cc	1.61	1.64	1.65	1.62	1.60



MAXIMUM DRY DENSITY = 1.65 g/cc

OPTIMUM MOISTURE CONTENT = 11.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

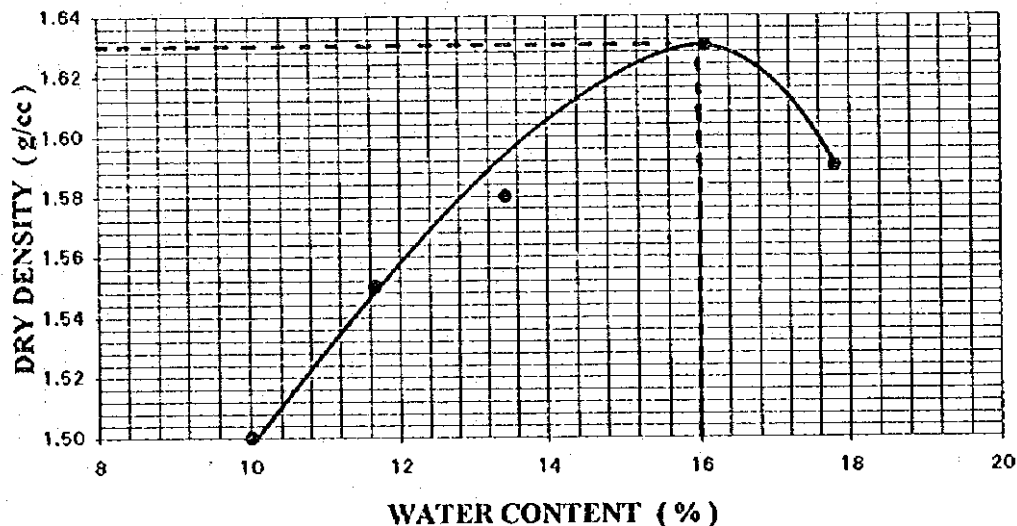
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : MASKUP Consolidation Dam TEST PIT NO.: 2 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 26, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	1051	106	1042	130	G03	1025	386	299	1048	98
WT. OF CAN+WET SOIL, g	181.50	188.60	191.50	190.50	204.70	218.20	252.10	230.00	294.30	253.40
WT. OF CAN+DRY SOIL, g	167.00	173.50	173.00	174.30	183.00	195.60	221.00	200.50	254.00	219.00
WT. OF WATER, g	14.50	15.10	18.50	16.20	21.70	22.60	31.10	29.50	40.30	34.40
WT. OF CAN, g	23.30	21.70	24.20	25.70	21.70	27.30	27.20	17.70	25.50	27.60
WT. OF DRY SOIL, g	143.70	151.80	148.80	148.60	161.30	168.30	193.80	182.80	228.50	191.40
WATER CONTENT, %	10.09	9.95	12.43	10.90	13.45	13.43	16.05	16.14	17.64	17.97

DENSITY DETERMINATION

AVE. WATER CONTENT, %	10.02	11.67	13.44	16.09	17.80
WT. OF SOIL+MOLD, g	11075	11250	11375	11585	11535
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3480	3655	3780	3990	3940
WET DENSITY, g/cc	1.65	1.74	1.80	1.90	1.87
DRY DENSITY, g/cc	1.50	1.55	1.58	1.63	1.59

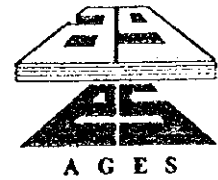


MAXIMUM DRY DENSITY = 1.63 g/cc

OPTIMUM MOISTURE CONTENT = 16.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

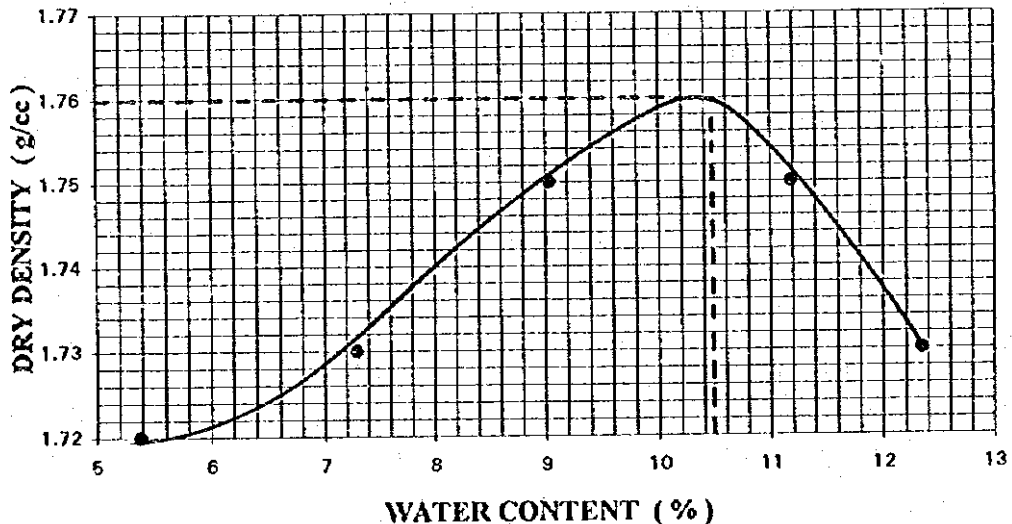
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO. : 309
 LOCATION : MASKUP Consolidation Dam TEST PIT NO.: 3 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 26, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	260	1036	1043	125	323	299	E3	130	93	104
WT. OF CAN+WET SOIL, g	155.50	156.50	177.50	180.00	192.50	196.50	206.50	208.50	220.00	223.50
WT. OF CAN+DRY SOIL, g	149.30	148.90	167.50	168.90	177.40	182.30	187.90	189.80	198.60	201.10
WT. OF WATER, g	6.20	7.60	10.00	11.10	15.10	14.20	18.60	18.70	21.40	22.40
WT. OF CAN, g	17.00	24.00	22.60	24.60	17.80	17.70	18.60	25.70	25.70	19.20
WT. OF DRY SOIL, g	132.30	124.90	144.90	144.30	159.60	164.60	169.30	164.10	172.90	181.90
WATER CONTENT, %	4.69	6.08	6.90	7.69	9.46	8.63	10.99	11.40	12.38	12.31

DENSITY DETERMINATION

AVE. WATER CONTENT, %	5.39	7.30	9.04	11.19	12.35
WT. OF SOIL+MOLD, g	11400	11500	11620	11690	11690
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3905	4025	4095	4095
WET DENSITY, g/cc	1.81	1.86	1.91	1.95	1.95
DRY DENSITY, g/cc	1.72	1.73	1.75	1.75	1.73



MAXIMUM DRY DENSITY = 1.76 g/cc

OPTIMUM MOISTURE CONTENT = 10.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

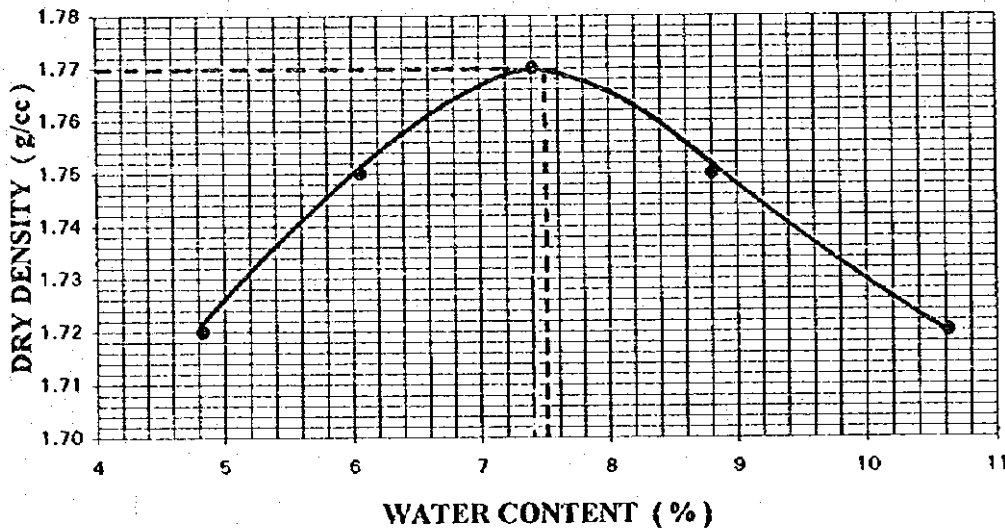
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : MASKUP Consolidation Dam TEST PIT NO.: 4 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials DATE: June 26, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	1011	101	383	365	B6	1056	E20	297	282	G07
WT. OF CAN+WET SOIL, g	146.50	152.20	171.50	174.50	191.50	218.50	228.50	234.50	241.50	244.50
WT. OF CAN+DRY SOIL, g	140.50	146.80	162.70	165.80	179.40	205.20	210.90	217.50	220.40	222.80
WT. OF WATER, g	6.00	5.40	8.80	8.70	12.10	13.30	17.60	17.00	21.10	21.70
WT. OF CAN, g	26.70	24.10	17.60	22.30	19.10	22.30	18.80	16.40	24.30	16.00
WT. OF DRY SOIL, g	113.80	122.70	145.10	143.50	160.30	182.90	192.10	201.10	196.10	206.80
WATER CONTENT, %	5.27	4.40	6.06	6.06	7.55	7.27	9.16	8.45	10.76	10.49

DENSITY DETERMINATION

AVE. WATER CONTENT, %	4.84	6.06	7.41	8.81	10.63
WT. OF SOIL+MOLD, g	11400	11500	11600	11595	11590
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3905	4005	4000	3995
WET DENSITY, g/cc	1.81	1.86	1.90	1.90	1.90
DRY DENSITY, g/cc	1.72	1.75	1.77	1.75	1.72

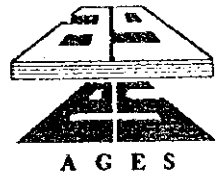


MAXIMUM DRY DENSITY = 1.77 g/cc

OPTIMUM MOISTURE CONTENT = 7.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

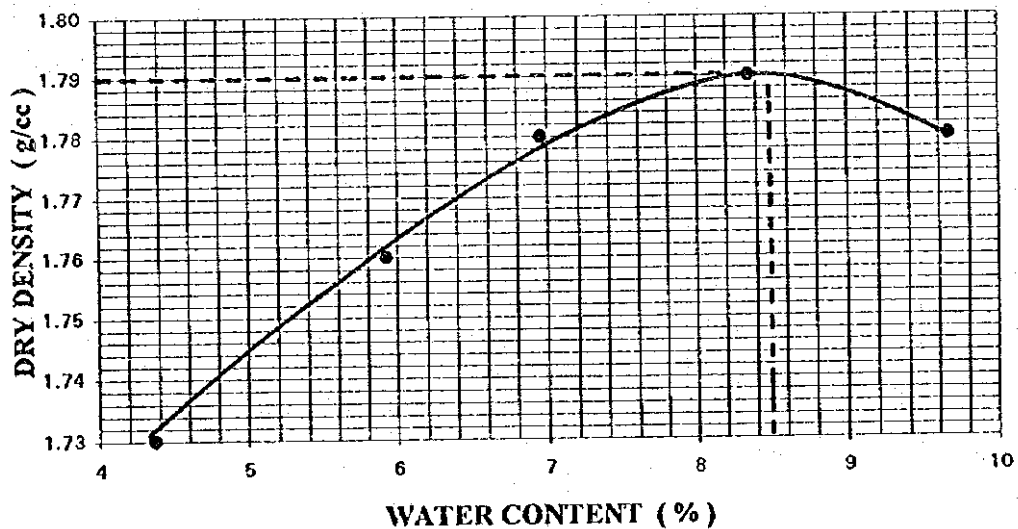
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : MASKUP Consolidation Dam TEST PIT NO.: 5 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 26, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	88	G17	1008	363	E15	1X	E34	1030	E10	G02
WT. OF CAN+WET SOIL, g	143.50	148.50	162.50	166.50	181.50	186.50	203.50	206.50	224.50	226.50
WT. OF CAN+DRY SOIL, g	138.50	142.80	154.50	158.30	170.40	176.70	189.20	192.40	204.30	210.00
WT. OF WATER, g	5.00	5.70	8.00	8.20	11.10	9.80	14.30	14.10	20.20	16.50
WT. OF CAN, g	21.00	15.60	22.50	16.90	18.60	28.30	16.00	25.60	17.40	16.60
WT. OF DRY SOIL, g	117.50	127.20	132.00	141.40	151.80	148.40	173.20	166.80	186.90	193.40
WATER CONTENT, %	4.26	4.48	6.06	5.80	7.31	6.60	8.26	8.45	10.81	8.53

DENSITY DETERMINATION

AVE. WATER CONTENT, %	4.37	5.93	6.96	8.35	9.67
WT. OF SOIL+MOLD, g	11400	11520	11600	11680	11698
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3925	4005	4085	4103
WET DENSITY, g/cc	1.81	1.86	1.90	1.94	1.95
DRY DENSITY, g/cc	1.73	1.76	1.78	1.79	1.78



MAXIMUM DRY DENSITY = 1.79 g/cc

OPTIMUM MOISTURE CONTENT = 8.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

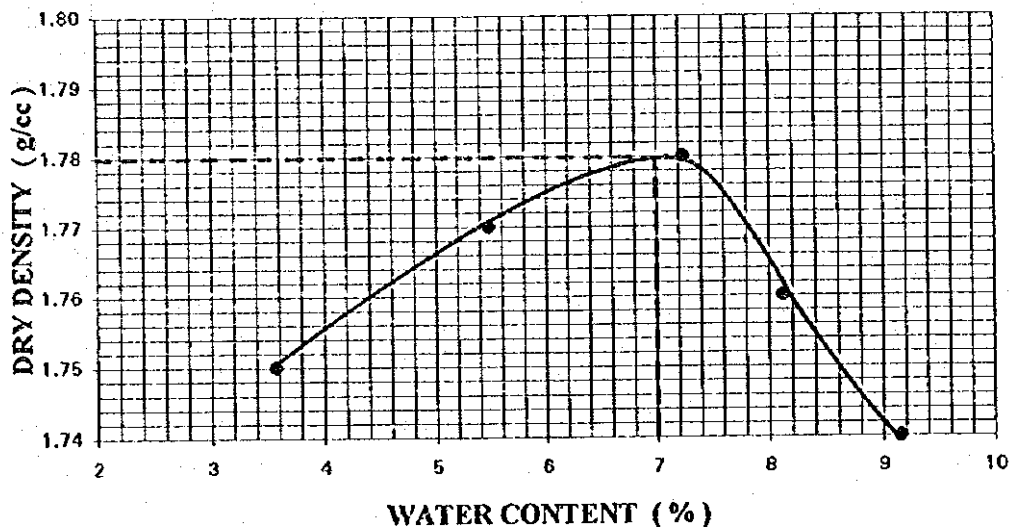
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : MASKUP Consolidation Dam TEST PIT NO.: 6 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials DATE: June 26, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	1051	E27	16X	1042	20X	1018	G18	82	347	125
WT. OF CAN+WET SOIL, g	155.50	159.90	162.50	165.50	185.50	187.50	202.20	204.90	207.50	213.50
WT. OF CAN+DRY SOIL, g	151.70	154.20	155.30	157.80	173.90	176.40	188.40	191.10	186.50	197.50
WT. OF WATER, g	3.80	5.70	7.20	7.70	11.60	11.10	13.80	13.80	15.40	16.00
WT. OF CAN, g	26.70	15.70	17.00	24.20	15.70	21.40	17.30	22.50	16.60	24.50
WT. OF DRY SOIL, g	125.00	138.50	138.30	133.60	158.20	155.00	171.10	168.60	169.90	173.00
WATER CONTENT, %	3.04	4.12	5.21	5.76	7.33	7.16	8.07	8.19	9.06	9.25

DENSITY DETERMINATION

AVE. WATER CONTENT, %	3.58	5.48	7.25	8.13	9.16
WT. OF SOIL+MOLD, g	11400	11520	11620	11610	11600
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3925	4025	4015	4005
WET DENSITY, g/cc	1.81	1.86	1.91	1.91	1.90
DRY DENSITY, g/cc	1.75	1.77	1.78	1.76	1.74

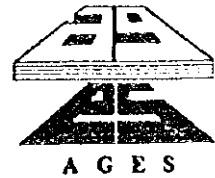


MAXIMUM DRY DENSITY = 1.78 g/cc

OPTIMUM MOISTURE CONTENT = 7.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

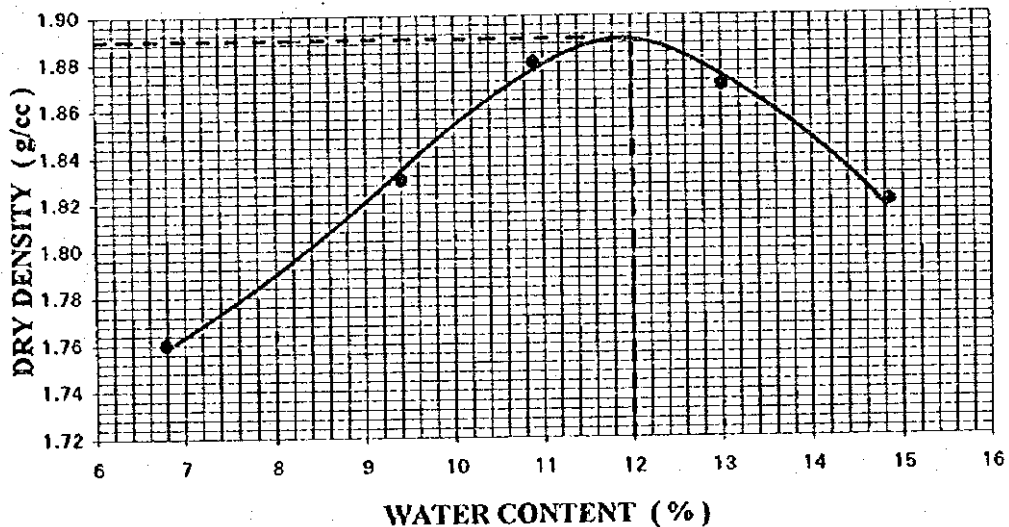
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO. : 309
 LOCATION : DOLORES Consolidation Dam TEST PIT NO. : 1 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 28, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.		1		2		3		4		5	
MOISTURE CAN NO.		299	JC	C7	E3	386	E5	E10	136X	E10	136X
WT. OF CAN+WET SOIL,	g	231.10	212.50	221.00	240.60	258.70	221.00	299.80	288.80	250.70	245.80
WT. OF CAN+DRY SOIL,	g	217.90	199.90	203.90	221.20	235.20	201.40	265.30	259.30	220.80	215.80
WT. OF WATER,	g	13.20	12.60	17.10	19.40	23.50	19.60	34.50	29.50	29.90	30.00
WT. OF CAN,	g	17.70	19.50	19.00	18.60	27.20	15.00	17.40	16.00	17.40	16.00
WT. OF DRY SOIL,	g	200.20	180.40	184.90	202.60	208.00	186.40	247.90	243.30	203.40	199.80
WATER CONTENT,	%	6.59	6.98	9.25	9.58	11.30	10.52	13.92	12.12	14.70	15.02

DENSITY DETERMINATION

Ave. Water Content,	%	6.79	9.41	10.91	13.02	14.86
WT. OF SOIL+MOLD,	g	11540	11820	11985	12035	12000
WT. OF MOLD,	g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD,	g	3945	4225	4390	4440	4405
WET DENSITY,	g/cc	1.87	2.01	2.09	2.11	2.09
DRY DENSITY,	g/cc	1.76	1.83	1.88	1.87	1.82



MAXIMUM DRY DENSITY = 1.89 g/cc

OPTIMUM MOISTURE CONTENT = 12.00 %

Note:

Individual grain-particles break into finer materials from hammer impact during the conduct of the tests.



COMPACTION TEST

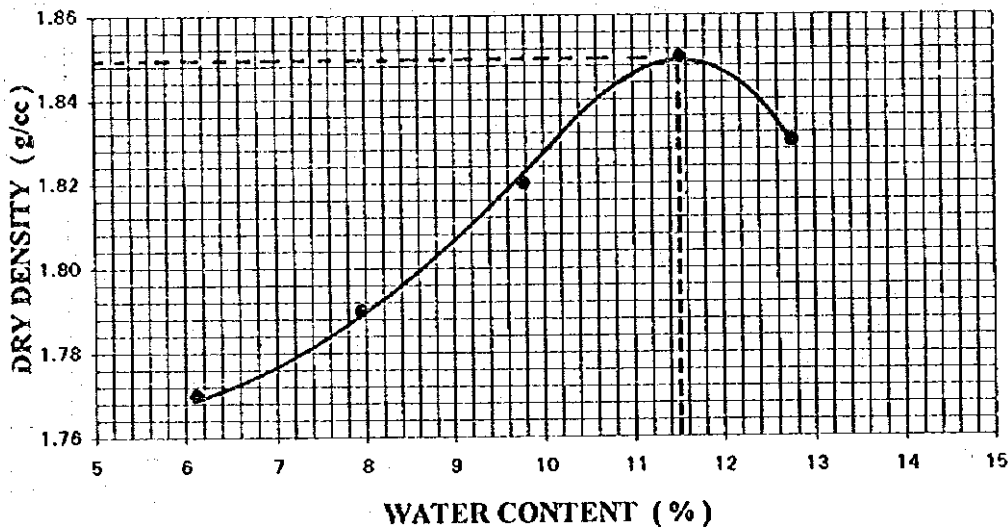
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : DOLORES Consolidation Dam TEST PIT NO.: 2 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 28, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	E10	D8	A1	A3	1026	E3	D2	E13	E5	A6
WT. OF CAN+WET SOIL, g	182.50	192.00	157.50	167.70	188.00	171.50	178.20	186.30	235.80	234.80
WT. OF CAN+DRY SOIL, g	172.40	182.40	147.50	156.50	173.00	158.50	161.20	169.50	212.20	209.50
WT. OF WATER, g	10.10	9.60	10.00	11.20	15.00	13.00	17.00	16.80	23.60	25.30
WT. OF CAN, g	17.40	14.80	19.10	18.60	27.00	18.60	18.70	18.70	19.80	18.80
WT. OF DRY SOIL, g	155.00	167.60	128.40	137.90	146.00	139.90	142.50	150.80	192.40	190.70
WATER CONTENT, %	6.52	5.73	7.79	8.12	10.27	9.29	11.93	11.14	12.27	13.27

DENSITY DETERMINATION

AVERAGE WATER CONTENT, %	6.12	7.95	9.78	11.54	12.77
WT. OF SOIL+MOLD, g	11550	11660	11790	11950	11940
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3955	4065	4195	4355	4345
WET DENSITY, g/cc	1.88	1.93	1.99	2.07	2.06
DRY DENSITY, g/cc	1.77	1.79	1.82	1.85	1.83

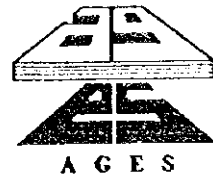


MAXIMUM DRY DENSITY = 1.85 g/cc

OPTIMUM MOISTURE CONTENT = 11.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

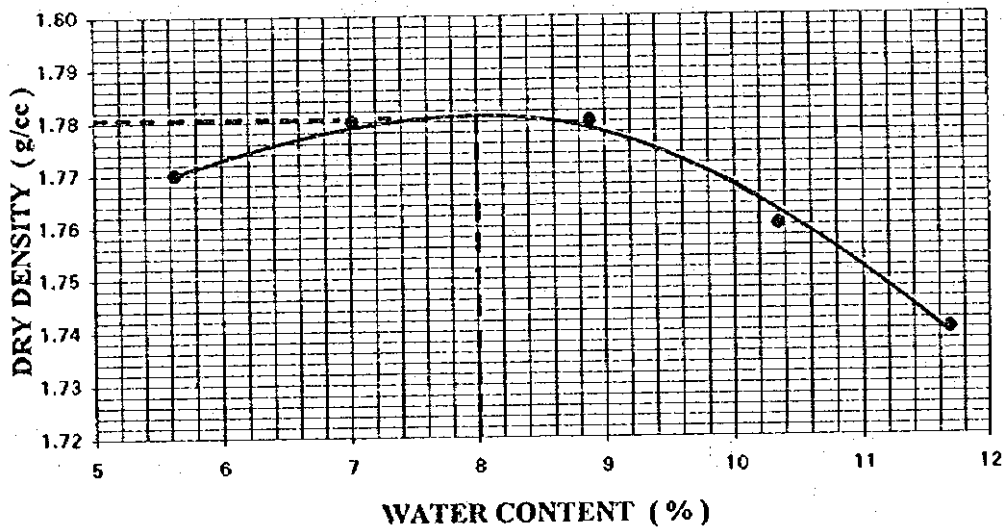
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : DOLORS Consolidation Dam TEST PIT NO.: 3 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 28, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	1040	36X	136X	348	352	388	272	386	G20	E42
WT. OF CAN+WET SOIL, g	162.50	164.50	183.50	193.50	203.30	205.50	208.50	211.50	221.50	223.50
WT. OF CAN+DRY SOIL, g	155.20	156.40	172.30	182.50	188.70	190.20	190.30	194.50	200.20	201.60
WT. OF WATER, g	7.30	8.10	11.20	11.00	14.60	15.30	18.20	17.00	21.30	21.90
WT. OF CAN, g	22.80	16.00	16.00	22.60	24.80	17.70	17.70	27.20	16.40	15.80
WT. OF DRY SOIL, g	132.40	140.40	156.30	159.90	163.90	172.50	172.60	167.30	183.80	185.80
WATER CONTENT, %	5.51	5.77	7.17	6.88	8.91	8.87	10.54	10.16	11.59	11.79

DENSITY DETERMINATION

AVE. WATER CONTENT, %	5.64	7.02	8.89	10.35	11.69
WT. OF SOIL+MOLD, g	11520	11600	11680	11690	11695
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3925	4005	4085	4095	4100
WET DENSITY, g/cc	1.86	1.90	1.94	1.95	1.95
DRY DENSITY, g/cc	1.77	1.78	1.78	1.76	1.74



MAXIMUM DRY DENSITY = 1.78 g/cc

OPTIMUM MOISTURE CONTENT = 8.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

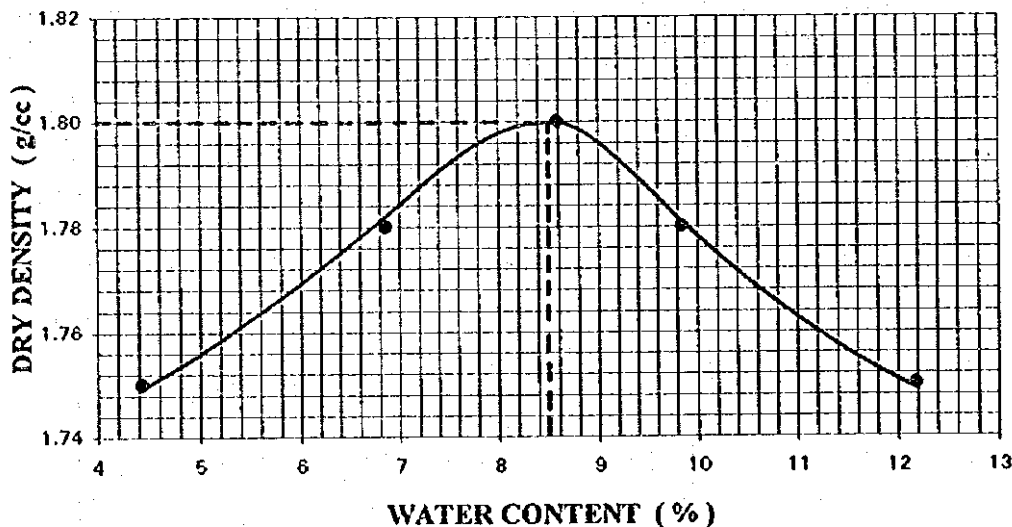
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : DOLORS Consolidation Dam TEST PIT NO.: 4 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials DATE: June 28, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	E48	A4	0	7Seas	E16	37X	379	G21	342	E34
WT. OF CAN+WET SOIL, g	145.50	147.50	166.50	169.30	183.50	185.50	211.50	213.50	230.50	235.50
WT. OF CAN+DRY SOIL, g	140.70	141.30	155.80	161.20	168.50	173.90	193.60	196.80	207.60	211.30
WT. OF WATER, g	4.80	6.20	10.70	8.10	15.00	11.60	17.90	16.70	22.90	24.20
WT. OF CAN, g	15.60	18.00	16.60	27.00	16.10	15.80	22.50	15.90	17.00	15.50
WT. OF DRY SOIL, g	125.10	123.30	139.20	134.20	152.40	158.10	171.10	180.90	190.60	195.80
WATER CONTENT, %	3.84	5.03	7.69	6.04	9.84	7.34	10.46	9.23	12.01	12.36

DENSITY DETERMINATION

AVE. WATER CONTENT, %	4.43	6.86	8.59	9.85	12.19
WT. OF SOIL+MOLD, g	11450	11600	11700	11720	11730
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3855	4005	4105	4125	4135
WET DENSITY, g/cc	1.83	1.90	1.95	1.96	1.96
DRY DENSITY, g/cc	1.75	1.78	1.80	1.78	1.75

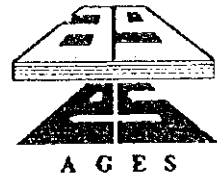


MAXIMUM DRY DENSITY = 1.80 g/cc

OPTIMUM MOISTURE CONTENT = 8.50 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

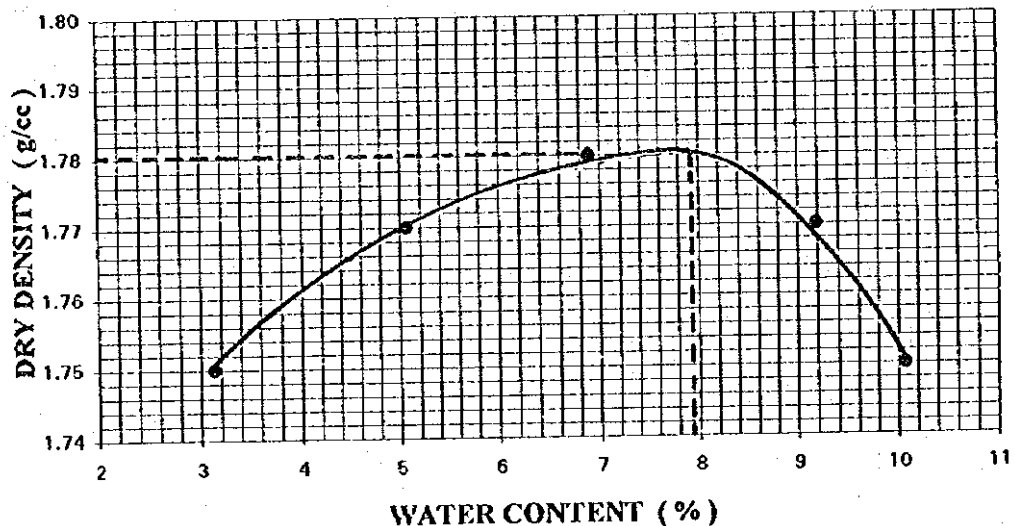
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : DOLORES Consolidation Dam TEST PIT NO.: 5 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials. DATE: June 28, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	E01	103	C9	13X	510	J6	E19	E9	1041	109
WT. OF CAN+WET SOIL, g	209.90	242.40	188.90	187.90	222.50	226.70	241.50	243.50	253.50	260.00
WT. OF CAN+DRY SOIL, g	204.50	235.20	180.40	179.70	209.40	213.60	140.80	225.60	232.10	239.30
WT. OF WATER, g	5.40	7.20	8.50	8.20	13.10	13.10	12.10	17.90	21.40	20.70
WT. OF CAN, g	15.80	24.30	15.10	15.40	24.00	18.70	19.00	13.70	24.80	28.90
WT. OF DRY SOIL, g	188.70	210.90	165.30	164.30	185.40	194.90	121.80	211.90	207.30	210.40
WATER CONTENT, %	2.86	3.41	5.14	4.99	7.07	6.72	9.93	8.45	10.32	9.84

DENSITY DETERMINATION

Ave. WATER CONTENT, %	3.14	5.07	6.89	9.19	10.08
WT. OF SOIL+MOLD, g	11400	11520	11600	11660	11650
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3805	3925	4005	4065	4055
WET DENSITY, g/cc	1.81	1.86	1.90	1.93	1.93
DRY DENSITY, g/cc	1.75	1.77	1.78	1.77	1.75



MAXIMUM DRY DENSITY = 1.78 g/cc

OPTIMUM MOISTURE CONTENT = 8.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.



COMPACTION TEST

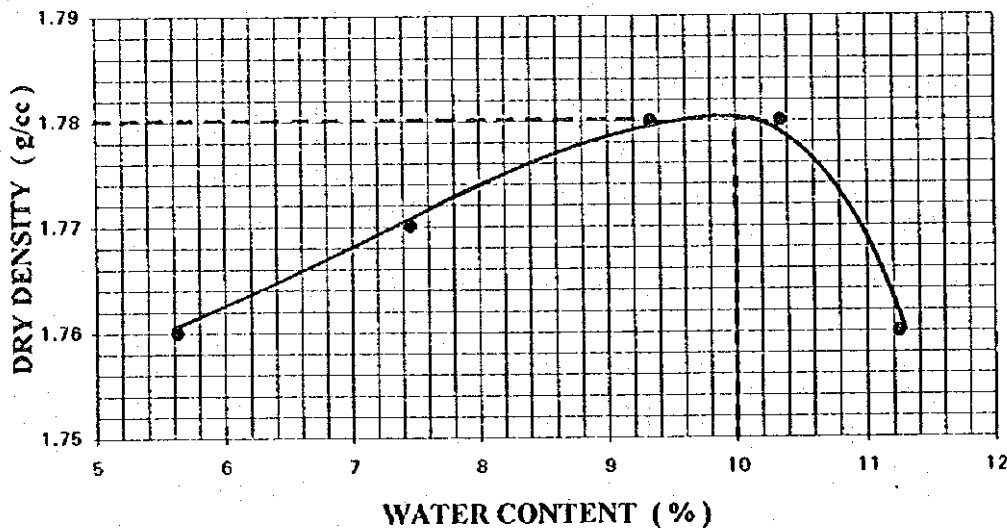
PROJECT : GEOMECHANICAL SURVEY FOR THE MT. PINATUBO PROJECT JOB NO.: 309
 LOCATION : DOLORES Consolidation Dam TEST PIT NO.: 6 DEPTH (cm): _____
 SOIL DESCRIPTION: Gray SAND with pyroclastic materials DATE: June 28, 1995
 TEST PROCEDURE: ASTM D1557, AASHTO T180 TESTED BY: R. P. Abne
 MOLD DIMENSIONS:
 DIAMETER (cm)= 15.20 HEIGHT (cm)= 11.60 VOLUME (cc)= 2104.92

WATER CONTENT DETERMINATION

TEST NO.	1		2		3		4		5	
MOISTURE CAN NO.	115	299	SM	368	E25	25X	C3	E2	344	E40
WT. OF CAN+WET SOIL, g	148.50	151.50	162.50	172.50	192.50	195.90	213.50	224.50	246.50	248.70
WT. OF CAN+DRY SOIL, g	143.60	142.50	152.40	162.20	177.80	180.20	195.80	204.60	223.80	225.40
WT. OF WATER, g	4.90	9.00	10.10	10.30	14.70	15.70	17.70	19.90	22.70	23.30
WT. OF CAN, g	24.00	16.80	15.80	25.50	15.60	16.80	18.80	18.60	23.80	16.30
WT. OF DRY SOIL, g	119.60	125.70	136.60	136.70	162.20	163.40	177.00	186.00	200.00	209.10
WATER CONTENT, %	4.10	7.16	7.39	7.53	9.06	9.61	10.00	10.70	11.35	11.14

DENSITY DETERMINATION

AVE. WATER CONTENT, %	5.63	7.46	9.34	10.35	11.25
WT. OF SOIL+MOLD, g	11500	11600	11700	11720	11710
WT. OF MOLD, g	7595	7595	7595	7595	7595
WT. OF SOIL IN MOLD, g	3905	4005	4105	4125	4115
WET DENSITY, g/cc	1.86	1.90	1.95	1.96	1.95
DRY DENSITY, g/cc	1.76	1.77	1.78	1.78	1.76



MAXIMUM DRY DENSITY = 1.78 g/cc

OPTIMUM MOISTURE CONTENT = 10.00 %

Note:

Individual grain-particles break into finer materials during hammer impact during the conduct of the tests.