11-18 a(b)

DIENST VAN OPENBARE WERKEN
VAN
HET EILANDGEBIED CURACAO

VAKGROEP
WATERBOUWKUNDE
Afd. Civiele Techniek
TH Delft

CONTAINERHAVEN CURACAO

RAPPORT GRONDONDERZOEK

behorende bij
Bestek en Voorwaarden
no. 78-02
BAGGERWERKEN C.A.
Bestek en Voorwaarden
no. 78-03
KADEMUURCONSTRUCTIE C.A.
Bestek en Voorwaarden
no. 78-0203
BAGGERWERKEN EN KADEMUURCONSTRUCTIE C.A.
IN MASSA

Afdeling Ontwikkelingsprojekten
Curacao, december 1980

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VAN
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SOLETON

grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g1
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 1

diepte havenbodem: 12.75⁻ t.o.v. N.M.P.
diepte boring : 13.48⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.75		slib	0.40 m slib zonder S.P.T. waarde
13.15			begin S.P.T.
13.38	100		
13.48	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 12.95⁻

SOLETON

grondspecialisten
Postbus 82 Rijswijk Z-H

blad	2
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 2

diepte havenbodem: 12.75" t.o.v. N.M.P.
diepte boring : 13.77"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.75		slib	0.28 m slib zonder S.P.T. waarde
13.03			begin S.P.T
13.33	3		
13.63	4		
13.72	100		
13.77	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.25"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 3
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 3

diepte havenbodem: 13.00⁻ t.o.v. N.M.P.
diepte boring : 13.88⁻
boor diameter : 1 ½"

maten in meter

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
13.00		slib	0.40 m slib zonder S.P.T. waarde
13.40			begin S.P.T.
13.70	7		
13.84	100		
13.88	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing gezakt tot 13.25⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 5
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 4

diepte havenbodem: 12.50⁻ t.o.v. N.M.P.
diepte boring : 15.59⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.50		slib	0.85 m slib zonder S.P.T. waarde
13.35			begin S.P.T.
13.65	8		
13.95	14		
14.25	25		
14.55	45		
14.85	66		
15.15	75		
15.43	100		
15.55	100	diabaas	
15.59	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.05

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 7
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 5

diepte havenbodem: 12.70" t.o.v. N.M.P.
diepte boring : 18.04"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.70		slib	065m slib zonder S.P.T. waarde
13.35			begin S.P.T.
13.65	7		
13.95	11		
14.25	13		
14.55	16		
14.85	22		
15.15	35		
15.45	35		
15.75	39		
16.05	32		
16.35	46		
16.65	50		
16.95	60		
17.25	67		
17.55	79		
17.85	85		
17.98	100		
18.04	100	diabaas	einde S.P.T.
			„blinde" S.P.T
			casing meegezakt tot 12.85"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 9
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 6

diepte havenbodem: 12.45⁻ t.o.v. N.M.P.
diepte boring : 20.20⁻
boor diameter : 1 ½"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.45		slib	0.70 m slib zonder S.P.T. waarde
13,15			begin S.P.T.
13. 45	7		
13. 75	20		
14,05	9		
14.35	13		
14.65	31		
14.95	10		
15.25	14		
15.55	23		
15.85	28		
16.15	26		
16.45	37		
16.75	23		
17.05	49		
17.35	30		
17.65	44		
17.95	48		
18.25	53		
18.55	44		
18,85	44		
19.15	48		
19.45	64		
19.75	85		
20.05	97		
20.13	100	diabaas	
20.20			einde S.P.T.
			„blinde" S.P.T
			casing meegezakt tot 12.95⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 11
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 17

diepte havenbodem: 12.65" t.o.v. N.M.P.
diepte boring : 13.79"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.65		slib	0.65 m slib zonder S.P.T. waarde
13.50			begin S.P.T.
13.71	100	diabaas	
13.70	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.25"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 13
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 8

diepte havenbodem: 12.60 t.o.v. N.M.P.
diepte boring : 18.78
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.60		slib	1.25 m slib zonder S.P.T. waarde
13.85			begin S.P.T.
14.15	9		
14.45	8		
14.75	19		
15.05	29		
15.35	43		
15.65	42		
15.95	32		
16.25	35		
16.55	48		
16.85	59		
17.15	85		
17.45	59		
17.75	75		
18.05	76		
18.35	88		
18.65	95		
18.74	100	diabaas	
18.78	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.35

SOLETON

grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 15
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 9

diepte havenbodem: 12.60" t.o.v. N.M.P.
diepte boring : 18.61"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.60		slib	1.01 m slib zonder S.P.T. waarde
13.61			begin S.P.T.
13.91	4		
14.21	1		
14.51	28		
14.81	37		
15.11	41		
15.41	29		
15.71	51		
16.01	63		
16.31	47		
16.61	50		
16.91	53		
17.21	60		
17.51	78		
17.81	57		
18.11	80		
18.41	89		
18.56	100	diabaas	
18.61	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.05"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z H

blad	g 17
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 10

diepte havenbodem: 12.70⁻ t.o.v. N.M.P.
diepte boring : 13.52⁻
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.70		slib	0.70 m slib zonder S.P.T. waarde
13.40			begin S.P.T.
13.50	100	diabaas	
13.52	100		einde S.P.T.
			„blinde" S.P.T.
			casing megezakt tot 13.10⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 19
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr.. 11

diepte havenbodem: 12.65" t.o.v. N.M.P.
diepte boring : 18.79"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.65		slib	1.04. m slib zonder S.P.T.waarde
13.69			begin S.P.T.
13.99	1		
14.29	7		
14,59	3		
14.89	5		
15.19	7		
15.49	20		
15.79	25		
16.09	26		
16. 39	27		
16.69	36		
16.99	37		
17.29	39		
17.59	41		
17.89	49		
18.19	39		
18.49	44		
18. 79	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 14.90"

SOLETOM grondspecialisten
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blad	a 21
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 12

diepte havenbodem: 10.00⁻ t.o.v. N.M.P.
diepte boring : 14.75⁻
boor diameter : 1 ½"

maten in meters

diepte -N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
10.00		slib	2.00 slib zonder S.P.T. waarde
12.00			begin S.P.T.
12.30	10		
12.60	2.5		
12.90	2		
13.20	2		verstoord monster
13.50	4	verweerde diabaas en koraalzand	" "
13.65	100		„blinde" S.P.T.
13.68	100		einde S.P.T.
13.68			begin kernboring
13.95		onverweerde diabaas	
14.10			
14.75			

SOLETON grondspecialisten
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blad	b 20
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao
boring nr. 13
diepte havenbodem: 10.00 t.o.v. N.M.P.
diepte boring : 17.35
boor diameter : 1 1/2"
maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
10.00		slib	2.05 m slib zonder S.P.T. waarde
12.05			begin S.P.T.
12.35	3		
12.65	7		
12.95	3		
13.25	1		verstoord monster
13.55	3		" "
13.85	13	klei en verweerde diabaas	" "
14.15	10		" "
14.45	2		" "
14.75	8		" "
15.05	10		" "
15.35	19		" "
15.65	19		
15.95	32	verweerde diabaas en klei	
16.10	100		verstoord monster
16.19	100		" "
16.26	100		einde S.P.T.
16.26		onverweerde diabaas	begin kernboring
16.76			
17.35			

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	c 19
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 14

diepte havenbodem: 12.50⁻ t.o.v. N.M.P.
diepte boring : 17.57⁻
boor diameter : 1 ½"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.50		slib	1.00 m slib zonder S.P.T. waarde
13.50			begin S.P.T.
13.80	10		verstoord monster
14.10	23	koraalzand, verweerde diabaas, klei en kalk	" "
14.40	33		
14.70	33	verweerde diabaas en koraalzand	
15.00	20		
15.30	15		
15.60	13		
15.90	20	koraalzand en verweerde diabaas	
16.20	42		
16.50	40	verweerde diabaas en koraalzand	
16.55	100	onverweerde diabaas	
16.57	100		einde S.P.T.
16.57			begin kernboring
17.07			
17.57			

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	d 18
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 15

diepte havenbodem: 12.40⁻ t.o.v. N.M.P.
diepte boring : 23.06⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.40		slib	1.35 m slib zonder S.P.T. waarde
13.75			
14.05	18		verstoord monster
14.35	16		" "
14.65	24	verweerde diabaas, koraalzand en klei	" "
14.95	27		" "
15.25	31		" "
15.55	29	verweerde diabaas, klei en koraalzand	" "
15.85	30		" "
16.15	33		" "
16.45	36	verweerde diabaas, koraalzand en klei	" "
16.75	38		
17.05	42	verweerde diabaas en koraalzand	
17.35	48		
17.65	49	verweerde diabaas en koraalzand	
17.95	42		„blinde" S.P.T.
18.25	52		
18.55	55		
18.85	60		
19.15	73		
19.45	33		
19.75	42		
20.05	55		
20.35	46		
20.65	80		
20.95	87		
21.25	80		
21.51	100		

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	d 18
werk nr.	
datum	760130

werk: grondonderzoek containerkade
willemstad curacao
diepte havenbodem: t.o.v. N.M.P.
diepte boring :
boor diameter : 1 ½"

boring nr. 15
vervolg

maten in meters

diepte -N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
21.71	100	diabaas	
21.86	100		
21.96	100		einde S.P.T.
21.96			kernboring, geen monster
23.06		diabaas	

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	e17
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 16

diepte havenbodem: 12.40⁻ t.o.v. N.M.P.
diepte boring : 22.99⁻
boor diameter : 1 ½"

maten in meters

diepte -N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.40		slib	1.28 m slib zonder S.P.T. waarde
13.68			begin S.P.T
13.98	10	"	verstoord monster
14.28	1		" "
14.58	12		" "
14.88	16	koraalzand en klei	" "
15.18	23		
15.48	26	verweerde diabaas en koraalzand	
15.78	29		
16.08	51	verweerde diabaas en koraalzand	
16.38	43		geen monsters
16.68	54		" "
16.98	70		„blinde " S.P.T.
17.28	84		
17.58	58		
17.88	66		
18.18	55		
18.48	78		
18.71	100		
18.96	100		
19.26	68		
19.56	49		
19.86	67		
20.16	69		
20.46	75		
20.76	53		
21.06	32		
21.36	69		

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	e 17
werk nr.	
datum	760130

werk: grondonderzoek containerkade
willemstad curacao
diepte havenbodem: t.o.v. N.M.P.
diepte boring :
boor diameter : 1 1/2"

boring nr. 16
vervolg

maten in meters

diepte -N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
21.66	74		„blinde" S.P.T.
21.96	96		↓
22.17	100	diabaas	↓
22.47	100		↓
22.75	100		↓
22.99	100		einde S.P.T

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	f 16
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 17

diepte havenbodem: 12.30⁻ t.o.v. N.M.P.
diepte boring : 17.30⁻
boor diameter : 1 ½"

maten in meters

diepte -N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.30		slib	1.43 m slib zonder S.P.T. waarde
13.73			begin S.P.T.
14.03	5		verstoord monster
14.33	1		
14.63	9	verweerde diabaas	
14.93	15		
15.23	24	verweerde diabaas	
15.53	28		
15.83	62	verweerde diabaas	
16.13	72		monster uitgevallen
16.27	100		
16.30	100	diabaas	einde S.P.T
16.30			begin kernboring
17.30		diabaas	

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g15
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 18

diepte havenbodem: 12.30 t.o.v. N.M.P.
diepte boring : 14.63
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.30		slib	1.11 m slib zonder S.P.T. waarde
13.41			begin S.P.T.
13.60	100		
13.66	100	onverweerde diabaas	einde S.P.T.
13.66			begin kernboring
14.63		diabaas	

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	h 14
werk nr.	
datum	760130

werk: grondonderzoek, containerkade willemstad curacao
boring nr. 19
diepte havenbodem: 12.80⁻ t.o.v. N.M.P.
diepte boring : 21.69⁻
boor diameter : 1 ½"
maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.80		slib	1.20 m slib zonder S.P.T. waarde
14.00			begin S.P.T.
14.30	2		verstoord monster
14.60	4		" "
14.90	14	koraalzand en slib	" "
15.20	31		
15.50	23	koraalzand en verweerde diabaas	
15.80	26		
16.10	32	verweerde diabaas en koraalzand	
16.40	47		„blinde" S.P.T.
16.70	47		
17.00	45		
17.30	66		
17.60	68		
17.90	54		
18.20	58		
18.50	57		
18.80	50		
19.10	42		
19.40	39		
19.70	42		
20.00	39		
20.30	52		
20.60	60		
20.90	62		
21.20	71		
21.46	100		
21.60	100	diabaas	
21.69	100		einde S.P.T.

SOLETON

grondspecialisten
Postbus 82 Rijswijk Z-H

blad	i 13
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 20

diepte havenbodem: 12.95" t.o.v. N.M.P.
diepte boring : 21.09"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.95		slib	0.25 m slib zonder S.P.T. waarde
13.20			begin S.P.T.
13.50	2		verstoord monster
13.80	2		" "
14.10	4		" "
14.40	9		" "
14.70	21		" "
15.00	28	slib en koraalzand	" "
15.30	29		
15.60	27	zand, weinig slib, en diabaasstukjes	
15.90	33		„blinde" S.P.T.
16.20	37		
16.50	46		
16.80	58		
17.10	64		
17.40	61		
17.70	60		
18.00	48		
18.30	57		
18.60	52		
18.90	49		
19.20	35		
19.50	49		
19.80	74		
20.10	95	diabaas	
20.40	104		casing tot 14.00" meegezakt
20.70	100		
21.00	100		
21.09	100		einde S.P.T.

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	j12
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao
boring nr. 21
diepte havenbodem: 12.80" t.o.v. N.M.P.
diepte boring : 19.52"
boor diameter : 1 1/2"
maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.80		slib	0.70 m slib zonder S.P.T. waarde
13.50			begin S.P.T
13.80	5		verstoord monster
14.10	1		" "
14.40	13		" "
14.70	15	koraalzand, verweerde diabaas en schelpenresten	" "
15.00	30		
15.30	45	koraalzand verweerde diabaas en weinig slib	
15.60	50		„blinde" S.P.T.
15.90	40		
16.20	48		
16.50	51		
16.80	52		
17.10	57		
17.40	48		
17.70	52		
18.00	56		
18.30	60		
18.60	78		
18.90	68		
19.20	77		
19.47	100	diabaas	
19.52	100		einde S.P.T.
			casing laten zakken tot 13.85"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	k 11
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao
boring nr. 22
diepte havenbodem: 12.40⁻ t.o.v. N.M.P.
diepte boring : 17.85⁻
boor diameter : 1 1/2"
maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.40		slib	0.90 m slib zonder S.P.T. waarde
13.30			begin S.P.T.
13.60	4		verstoord monster
13.90	3		" "
14.20	11		" "
14.50	23	koraalzand	" "
14.80	24		
15.10	25	verweerde diabaas en koraalzand	
15.40	39		
15.70	41	verweerde diabaas, koraalzand en weinig schelpen	
16.00	99		„blinde" S.P.T.
16.30	51		↓
16.60	75		
16.81	100		
16.85	100		einde S.P.T.
16.85			kernboring
17.85		diabaas	
			casing tot 14.85⁻ gezakt

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	1 10
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 23

diepte havenbodem: 12.65⁻ t.o.v. N.M.P.
diepte boring : 17.40⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.65		slip	0.68 m slib zonder S.P.T. waarde
13.33			begin S.P.T.
13.63	4		verstoord monster
13.93	19		" "
14.23	14		" "
14.53	10	grove verweerde diabaas	geen monster
14.83	10		" "
15.13	17		
15.43	30	verweerde diabaas en koraalzand	
15.73	33		„blinde" S.P.T.
16.03	33		↓
16.38	100		↓
16.42	100		einde S.P.T.
16.42			kernboring
17.40		diabaas	

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	m 9
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 24

diepte havenbodem: 12.40⁻ t.o.v. N.M.P.
diepte boring : 14.54⁻
boor diameter : 1 ½"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.40		slib	0.86 m slib zonder S.P.T. waarde
13.26			begin S.P.T.
13.47	100		
13.54	100	diabaas	einde S.P.T.
13.54			kernboring
14.54		diabaas	geen monster
			casing gezakt tot 13.25⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	n 8
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 25

diepte havenbodem: 12.90" t.o.v. N.M.P.
diepte boring : 14.55"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.90		slib	0.23 m slib zonder S.P.T. waarde
13.13			begin S.P.T.
13.43	80		verstoord monster
13.53	100		
13.55	100	diabaas	einde S.P.T.
13.55			kernboring
14.55		diabaas	
			casing laten zakken tot 13.10"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	07
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 26

diepte havenbodem: 12.35" t.o.v. N.M.P.
diepte boring : 14.90"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.35		slib	0.85 m slib zonder S.P.T. waarde
13.20			begin S.P.T.
13.50	36		verstoord monster
13.70	100		" "
13.82	100		" "
13.88	100	diabaas	einde S.P.T.
13.88			kernboring
14.90		diabaas	
			casing laten zakken tot 13.00"

SOLETON

grondspecialisten
Postbus 82 Rijswijk Z-H

blad	p6
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 27

diepte havenbodem: 12.55" t.o.v. N.M.P.
diepte boring : 14.90"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.55		slib	0.98 m slib zonder S.P.T. waarde
13.53			begin S.P.T
13.83	25		
13.88	100	onverweerde diabaas en ~~kor~~aalzaand	einde S.P.T.
13.88			kernboring
14.90		diabaas	
			casing laten zakken tot 13.00"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	95
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 28

diepte havenbodem: 13.05⁻ t.o.v. N.M.P.
diepte boring : 14.65⁻
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
13.05		slib	0.41 m slib zonder S.P.T. waarde
13.46			begin S.P.T.
13.60	100		
13.64	100	diabaas	einde S.P.T.
13.64			kernboring
14.65		diabaas	
			casing tot 13.05⁻ meegzakt

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	r4
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 29

diepte havenbodem: 12.55⁻ t.o.v. N.M.P.
diepte boring : 14.45⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.55		slib	0.65 m slib zonder S.P.T waarde
13.20.			begin S.P.T.
13.40	100		vestoord monster
13.46	100		einde S.P.T
13.46			kernboring
14.45		diabaas	
			casing meegezakt tot 12.85⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	S3
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 30

diepte havenbodem: 12.50⁻ t.o.v. N.M.P.
diepte boring : 14.50⁻
boor diameter : 1 ½"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.50		slib	0.73 m slib zonder S.P.T. waarde
13.23			begin S.P.T.
13.48	100		geen monster (uitgevallen)
13.50	100		einde S.P.T.
13.50			kernboring
14.50		diabaas	
			casing meegezakt tot 13.05⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	t 2
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 31

diepte havenbodem: 12.70" t.o.v. N.M.P.
diepte boring : 14.05"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.70		slib	0.23 m slib zonder S.P.T. waarde
12.93			verstoord monster, begin S.P.T.
13.05	100		" "
13.10	100		" " , einde S.P.T.
13.10			kernboring
14.05		diabaas	
			casing meegezakt tot 12.90"

SOLETCON grondspecialisten
Posfbus 82 Rijswijk Z-H

blad	u 1
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 32

diepte havenbodem: 12.65⁻ t.o.v. N.M.P.
diepte boring : 14.25⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.65		slib	0.42 m slib zonder S.P.T. waarde
13.07			verstoord monster, begin S.P.T.
13.22	100		" "
13.24	100		" " , eind S.P.T.
13.24			kernboring
14.25		diabaas	
			casing meegezakt tot 12.95⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 4
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 33

diepte havenbodem: 12.50⁻ t.o.v. N.M.P.
diepte boring : 14.34⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.50		slib	1.35 m slib zonder S.P.T. waarde
13.85			begin S.P.T.
14.15	27		
14.31	100		
14.34	100	diabaas	einde S.P.T
			„blinde" S.P.T.
			casing meegezakt tot 13.20⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 6
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 34

diepte havenbodem: 12.30⁻ t.o.v. N.M.P.
diepte boring : 18.09⁻
boor diameter : 1 ½"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.30		slib	1.35 m slib zonder S.P.T. waarde
13.65			begin S.P.T.
13.95	12		
14.25	13		
14.55	13		
14.85	9		
15.15	13		
15.45	24		
15.75	24		
16.05	30		
16.35	30		
16.65	30		
16.95	17		
17.25	20		
17.55	21		
17.85	22		
18.02	100		
18.09	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.30⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 8
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 35

diepte havenbodem: 10.70" t.o.v. N.M.P.
diepte boring : 16.16"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
10.70		slib	0.65 m slib zonder S.P.T. waarde
11.35			begin S.P.T.
11.65	3		
11.95	1		
12.25	1		
12.55	1		
12.85	7		
13.15	3		
13.45	8		
13.75	19		
14.05	33		
14.35	17		
14.65	10		
14.95	22		
15.25	35		
15.55	44		
15.85	63		
16.10	100		
16.16	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 11.80"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 10
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 36

diepte havenbodem: 12.30⁻ t.o.v. N.M.P.
diepte boring : 18.76⁻
boor diameter : 1 ½"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.30		slib	1.45m slib zonder S.P.T. waarde
13.75			begin S.P.T.
14.05	1		
14.35	1		
14.65	6		
14.95	10		
15.25	10		
15.55	16		
15.85	24		
16.15	57		
16.45	64		
16.75	60		
17.05	63		
17.35	54		
17.65	50		
17.95	64		
18.25	80		
18.55	89		
18.68	100	diabaas	
18.76	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 12.95⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g12
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 37

diepte havenbodem: 13.00⁻ t.o.v. N.M.P.
diepte boring : 17.05⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
13.00		slib	0.75 m slib zonder S.P.T. waarde
13.75			begin S.P.T.
14.05	2		
14.35	1		
14.65	1		
14.95	4		
15.25	6		
15.55	14		
15.85	23		
16.15	31		
16.45	44		
16.75	44		
16.99	100	diabaas	
17.05	100		einde S.P.T
			„blinde" S.P.T.
			casing meegezakt tot 13.35⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 14
werk nr.	
datum	760130

werk: grondonderzoek containerkade
willemstad curacao
diepte havenbodem: 12.80⁻ t.o.v. N.M.P.
diepte boring : 18.04⁻
boor diameter : 1 ½"

boring nr. 38

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.80		slib	1.15 m slib zonder S.P.T waarde
13.95			begin S.P.T.
14.25	3		
14.55	9		
14.85	14		
15.15	15		
15.45	22		
15.75	31		
16.05	27		
16.35	34		
16.65	53		
16.95	75		
17.25	62		
17.55	85		
17.85	100		
17.98	100	diabaas	
18.04	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.75⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z H

blad	g 16
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad : curacao
diepte havenbodem: 11.25⁻ t.o.v. N.M.P.
diepte boring : 16.93⁻
boor diameter : 1 1/2"

boring nr. 39

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
11.25		slib	0.60 m slib zonder S.P.T. waarde
11.85			begin S.P.T.
12.15	1		
12.45	1		
12.75	1		
13.05	1		
13.35	1		
13.65	5		
13.95	9		
14.25	22		
14.55	27		
14.85	28		
15.15	28		
15.45	31		
15.75	28		
16.05	22		
16.35	28		
16.65	31		
16.88	100	diabaas	
16.93	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 12.05⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 18
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 40

diepte havenbodem: 12.90⁻ t.o.v. N.M.P.
diepte boring : 18.59⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.90		slib	1.05 m slib zonder S.P.T. waarde
13.95			begin S.P.T.
14.25	4		
14.55	8		
14.85	9		
15.15	6		
15.45	6		
15.75	12		
16.05	21		
16.35	22		
16.65	34		
16.95	34		
17.25	35		
17.55	50		
17.85	70		
18.15	89		
18.39	100		
18.53	100		
18.59	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.35⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	g 20
werk nr.	
datum	760130

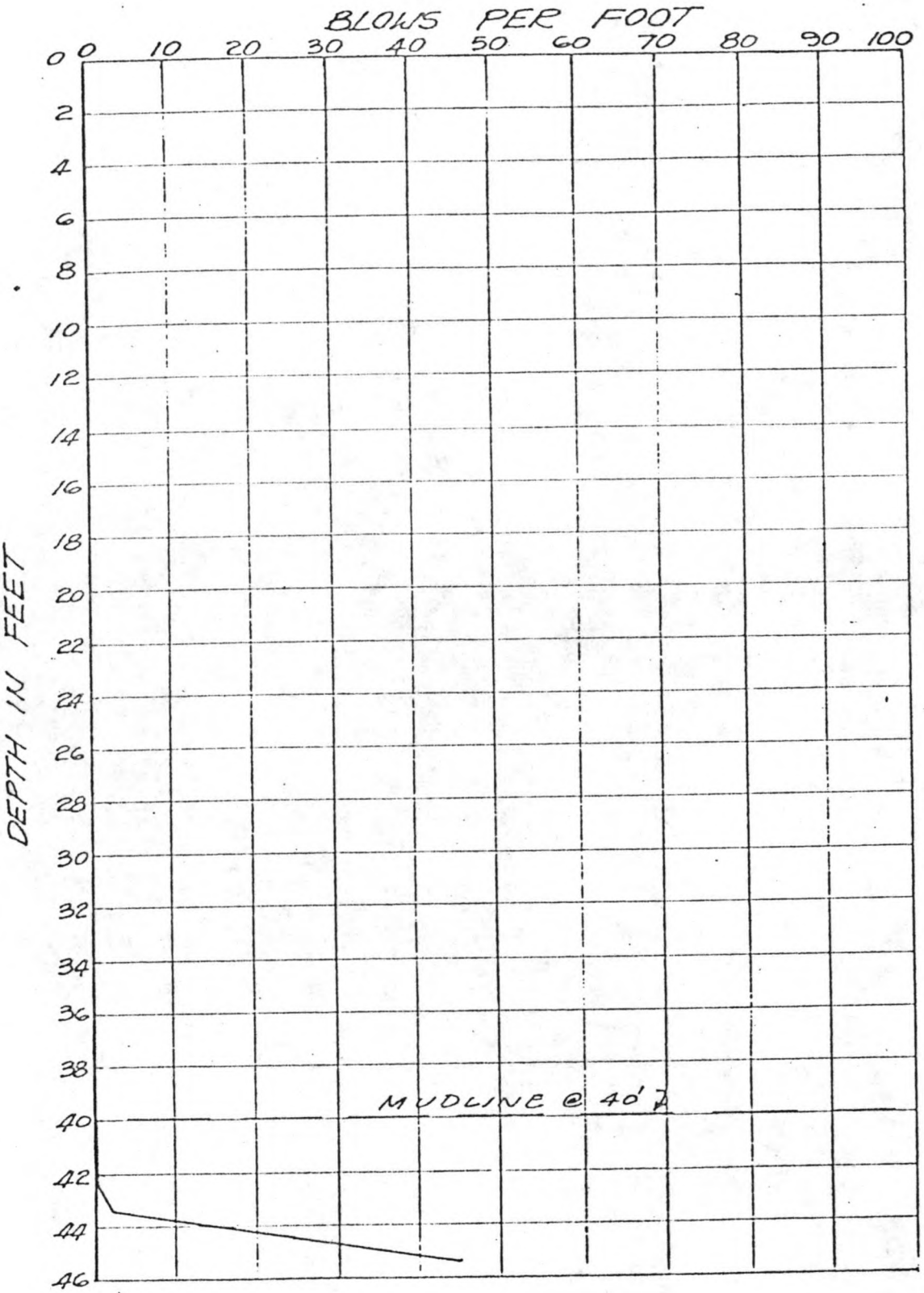
werk: grondonderzoek containerkade willemstad curacao

boring nr. 41

diepte havenbodem: 12.90⁻ t.o.v. N.M.P.
diepte boring : 18.63⁻
boor diameter : 1 1/2"

maten in meters

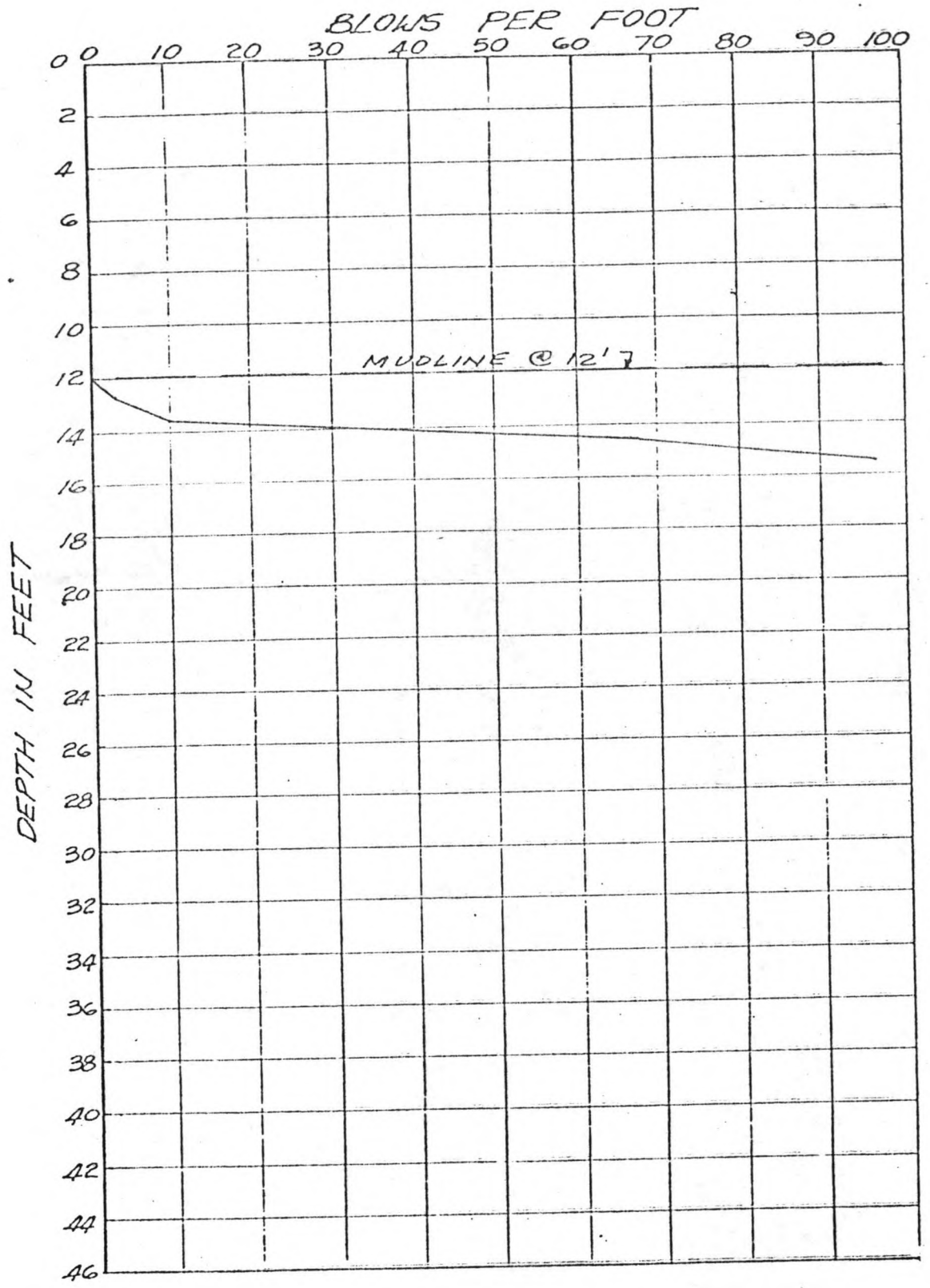
diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
12.90		slib	1.40 m slib zonder S.P.T. waarde
14.30			begin S.P.T.
14.60	12		
14.90	9		
15.20	8		
15.50	13		
15.80	8		
16.10	18		
16.40	28		
16.70	28		
17.00	44		
17.30	50		
17.60	58		
17.90	71		
18.20	88		
18.50	96		
18.60	100	diabaas	
18.63	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 13.25⁻



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 12

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

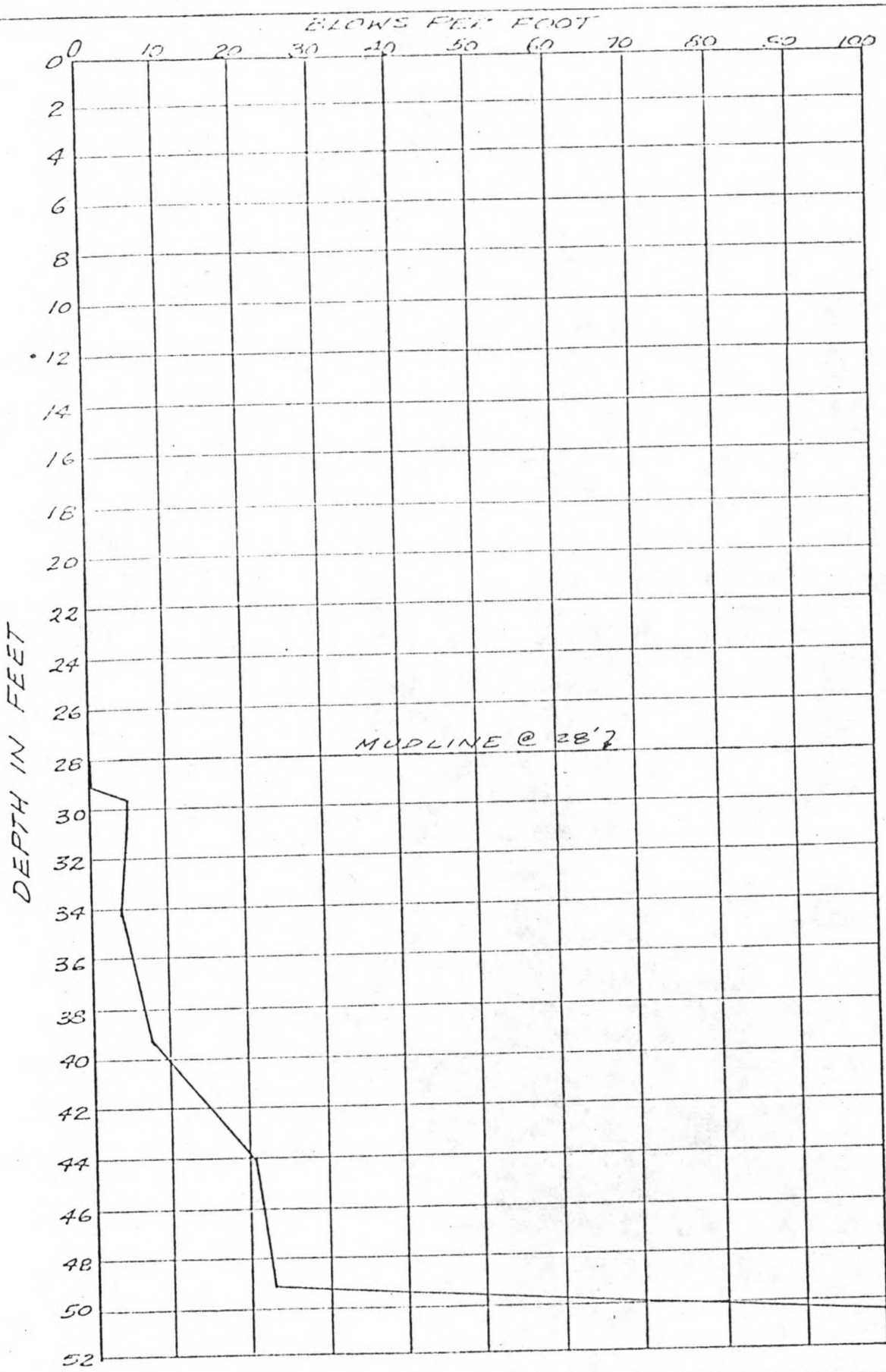
GVL	JMC	3-31-78	77530



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 43

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-31-78	77530



DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 77

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-30-78	77530

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	X D
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 45

diepte havenbodem: 11.40" t.o.v. N.M.P.
diepte boring : 18.61"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
11.40		slib	0.80 m slib zonder S.P.T. waarde
12.20			begin S.P.T.
12.50	7		
12.80	2		
13.10	1		
13.40	1		
13.70	1		
14.00	5		
14.30	6		
14.60	10		
14.90	3		
15.20	1		
15.50	2		
15.80	4		
16.10	2		
16.40	10		
16.70	15		
17.00	16		
17.30	23	koraalzand en weinig klei	
17.60	33		opnieuw monsters nemen is niet mogelijk vanwegen het invallen
17.90	43		van het boorgat vanaf 17.30" „blinde" S.P.T.
18.20	81		
18.50	95		
18.57	100		
18.61	100	diabaas	einde S.P.T.
			gedeeltelijk open en „blinde" S.P.T.
			casing meegezakt tot 15.50"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	IX.C
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 46

diepte havenbodem: 10.25" t.o.v. N.M.P.
diepte boring : 14.27"
boor diameter : 1 ½"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
10.25		slib	1.95 m slib zonder S.P.T. waarde
12.20			begin S.P.T.
12.50	2		
12.80	2		
13.10	2		
13.40	2		
13.70	4		
14.00	7		verstoord monster
14.23	100		" "
14.27	100	diabaas	" " , einde S.P.T.
			open S.P.T.
			casing meegezakt tot 11.85"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	VIII
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 47

diepte havenbodem: 9.80" t.o.v. N.M.P.
diepte boring : 17.73"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
9.80		slib	1.95 m slib zonder S.P.T. waarde
11.75			begin S.P.T..
12.05	8		
12.35	5		
12.65	1		
12.95	1		
13.25	1		
13.55	1		
13.85	2		
14.15	12		
14.45	19		
14.75	29		
15.05	29		
15.35	35		
15.65	40		
15.95	34		
16.25	47		
16.55	41		
16.85	58		
17.15	74		
17.45	70		
17.66	100		
17.73	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 10.65"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	VII
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 78

diepte havenbodem: 9.50" t.o.v. N.M.P.
diepte boring : 17.71"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
9.50		slib	2.75 m slib zonder S.P.T. waarde
12.25			begin S.P.T.
12.55	4		
12.85	1		
13.15	1		
13.45	1		
13.75	9		
14.05	21	koraalzand, verweerde diabaas en klei	
14.35	23		opnieuw monsters nemen is niet mogelijk vanwegen het invallen
14.65	28		van het boorgat
14.95	33		
15.25	36		
15.55	44		
15.85	46		
16.15	50		
16.45	46		
16.75	47		
17.05	59		
17.35	80		
17.65	95		
17.71	100	diabaas	einde S.P.T.
			open S.P.T.
			casing meegezakt tot 12.25"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	VI
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 49

diepte havenbodem: 8.20⁻ t.o.v. N.M.P.
diepte boring : 14.13⁻
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
8.20		slib	1.95 m slib zonder S.P.T. waarde
10.15			begin S.P.T.
10.45	6		
10.75	4		
11.05	1		
11.35	8		
11.65	11		
11.95	18		
12.25	28		
12.55	52		
12.85	60		
13.15	72		
13.45	84		
13.75	91		
14.05	100		
14.13	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 10.20⁻

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	V A
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao
boring nr. 50
diepte havenbodem: 8.80" t.o.v. N.M.P.
diepte boring : 17.01"
boor diameter : 1 1/2"

maten in meters

diepte - N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
8.80		slib	1.40 m slib zonder S.P.T. waarde
10.20			begin S.P.T.
10.50	4		
10.80	1		
11.10	1		
11.40	1		
11.70	1		
12,00	1		
12,30	1		
12.60	1		
12.90	3		verstoord monster
13.20	1		" "
13.50	1		" "
13.80	4	slib, klei en verweerde diabaas	" "
14.10	9		opnieuw monsters nemen is niet mogelijk, vanwegen het dichtzakken
14.40	11		van het boorgat
14.70	12		
15.00	10		
15.30	13		
15.60	24		
15.90	40		
16.20	53		
16.50	68		
16.80	80		
16.94	100		
17.01	100	diabaas	einde S.P.T.
			„open" S.P.T.
			casing meegezakt tot 12.30"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	IV
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 51

diepte havenbodem: 7.25" t.o.v. N.M.P.
diepte boring : 15.25"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
7.25		slib	3.02m slib zonder S.P.T. waarde
10.27			begin S.P.T.
10.57	5		
10.87	2		
11.17	1		
11.47	1		
11.77	1		
12.07	1		
12.37	1		
12.67	1		
12.97	6		
13.27	8		
13.57	24		
13.87	29		
14.17	41		
14.47	39		
14.77	28		
15.07	28		
15.22	100		
15.25	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 8.10"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	III
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 52

diepte havenbodem: 6.60" t.o.v. N.M.P.
diepte boring : 14.71"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
6.60		slib	1.60 m slib zonder S.P.T waarde
8.20			begin S.P.T.
8.50	1		
8.80	1		
9.10	1		
9.40	1		
9.70	2		
10.00	6		
10.30	7		
10.60	3		
10.90	2		
11.20	1		
11.50	2		
11.80	4		
12.10	6		
12.40	8		
12.70	17		
13.00	38		
13.30	47		
13.60	38		
13.90	28		
14.20	30		
14.50	48		
14.68	100		
14.71	100	diabaas	einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 7.60"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	II
werk nr.	
datum	760130

werk: grondonderzoek containerkade willemstad curacao

boring nr. 53

diepte havenbodem: 6.30" t.o.v. N.M.P.
diepte boring : 11.80"
boor diameter : 1 1/2"

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
6.30		slib	1.05 m slib zonder S.P.T. waarde
7.35			begin S.P.T.
7.65	7		
7.95	11		
8.25	4		
8.55	17		
8.85	28		
9.15	26		
9.45	30		
9.75	2		
10.05	2		
10.35	2		
10.65	5		
10.95	11		
11.25	31		
11.55	35		
11.73	100		
11.80	100	diabaas	einde S.P.T
			„blinde" S.P.T.
			casing meegezakt tot 7.25"

SOLETON grondspecialisten
Postbus 82 Rijswijk Z-H

blad	I
werk nr.	
datum	760130

werk: grondonderzoek containerkade
willemstad curacao
diepte havenbodem: 5.70⁻ t.o.v. N.M.P.
diepte boring : 7.54⁻
boor diameter : 1 ½"

boring nr. 54

maten in meters

diepte – N.M.P.	S.P.T. waarde	grondsoort	opmerkingen
5.70		slib	0.45 m slib zonder S.P.T. waarde
6.15			begin S.P.T.
6.45	2		
6.75	2		
7.05	2		
7.35	3		
7.52	100	diabaas	
7.54	100		einde S.P.T.
			„blinde" S.P.T.
			casing meegezakt tot 6.70⁻

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	54A
PROJECT NAME	**ARCHITECT-ENGINEER**
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
20					Mudline @ 23'	
25	1	SS			FINE TO COARSE SAND, TAN TO GRAY, Medium Dense (SP-SW)	
		HS			WEATHERED ROCK WITH CLAY SMS, Brown to Gray, (Diabase)	
30	2	SS				
		RB				
35					WEATHERED ROCK, Dark Green to Gray, (Diabase)	
	3	SS				
40					Bottom of Boring	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

10 20 30 40 50

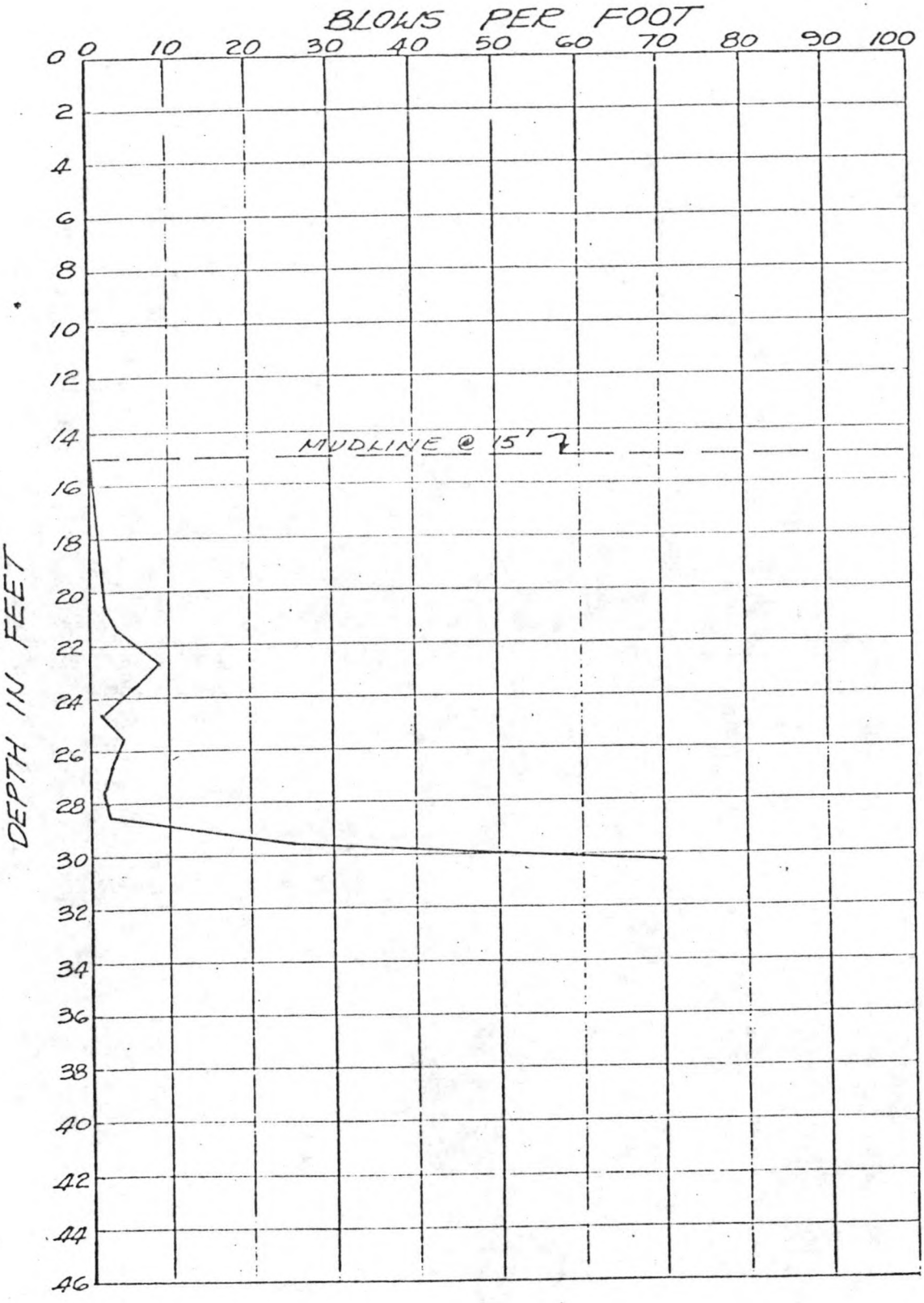
STANDARD PENETRATION BLOWS/FT. — 10 20 30 40 50

B1 — 100 — 4" — R

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS OR WD	BORING STARTED 8-11-78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 8-11-78	
WL Sea Level	RIG 45-B FOREMAN KDE	APPROVED BY JMC STS JOB NO. 77530-S

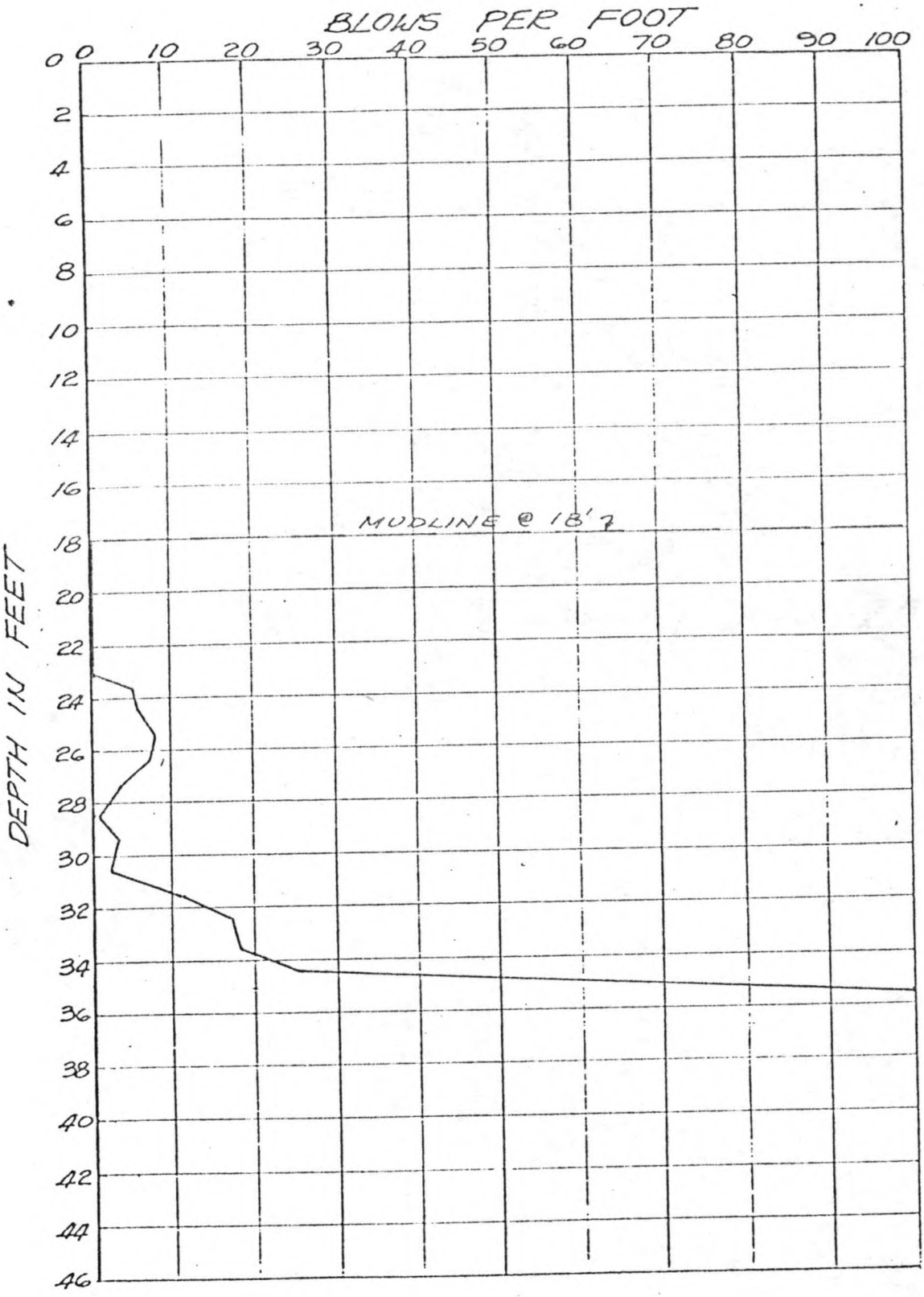
BL:1



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 55

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-23-78	77530



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 56

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-23-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 57

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

(10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
15					Mudline @ 17'	
20		HS			SANDY SILT - TRACE GRAVEL, CORAL FRAGMENTS, Gray, Very Loose (SM)	
25	1	SS				
		HS				
30					SILTY SAND W/ SHELL FRAGMENTS, Gray, Loose (SM)	
	2	SS				
35		HS			FINE TO COARSE SAND - SOME GRAVEL, Gray-Brown (Weathered Diabase)	
					Continued on Sheet 2	

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THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS OR WD	BORING STARTED 3/29/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/29/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY MC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 57 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % (10 20 30 40 50) / STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)
					SURFACE ELEVATION		
					Continued from Sheet 1		
		HS			SANDY GRAVEL, Blue Gray, Very Dense (Diabase Fragments)		
40	3	SS			Bottom of Boring		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

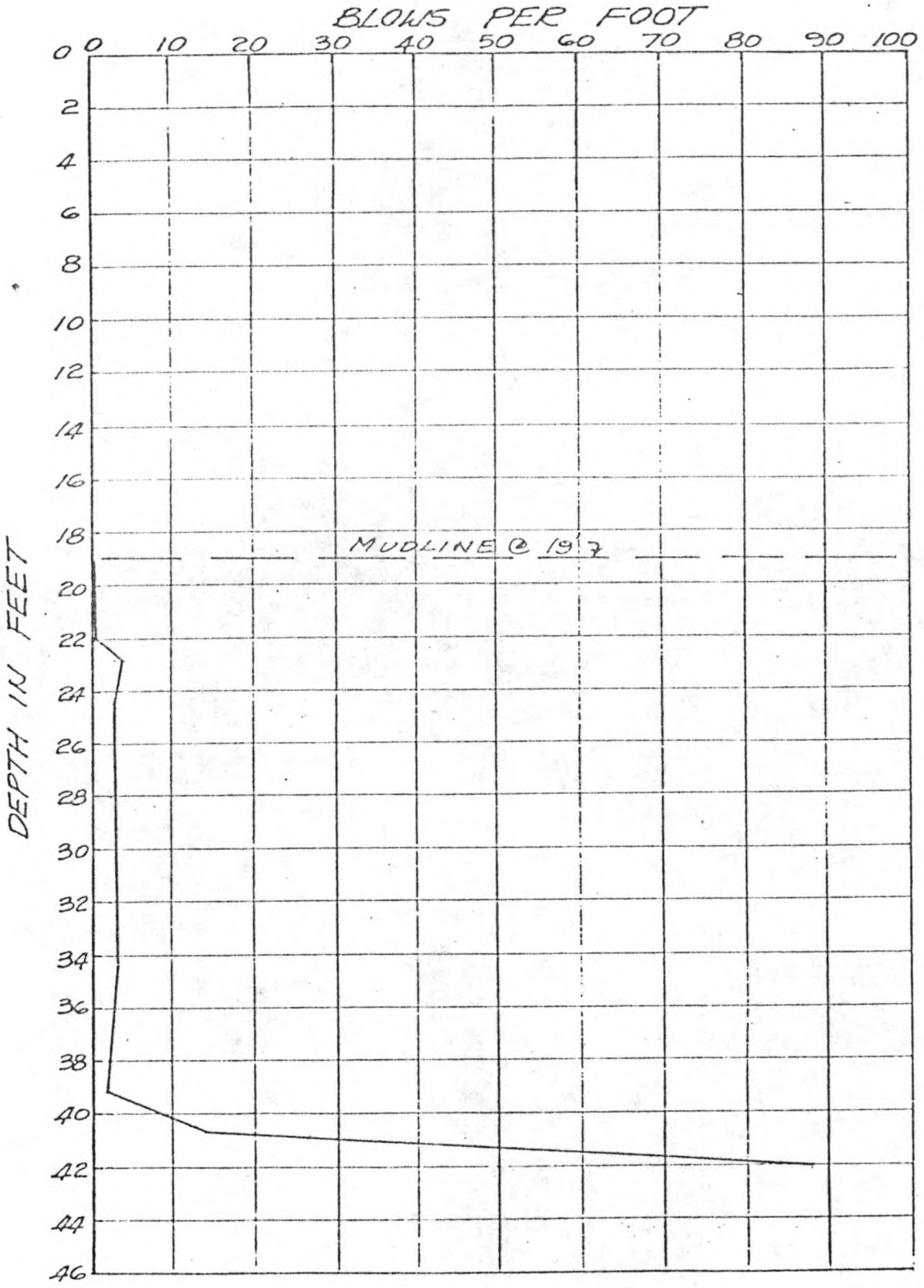
WL ____ WS OR WD ____ BORING STARTED 3/29/78

WI ____ BCR ____ ACR ____ BORING COMPLETED 3/29/78

SEA LEVEL ____ RIG 45-B FOREMAN GVL

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

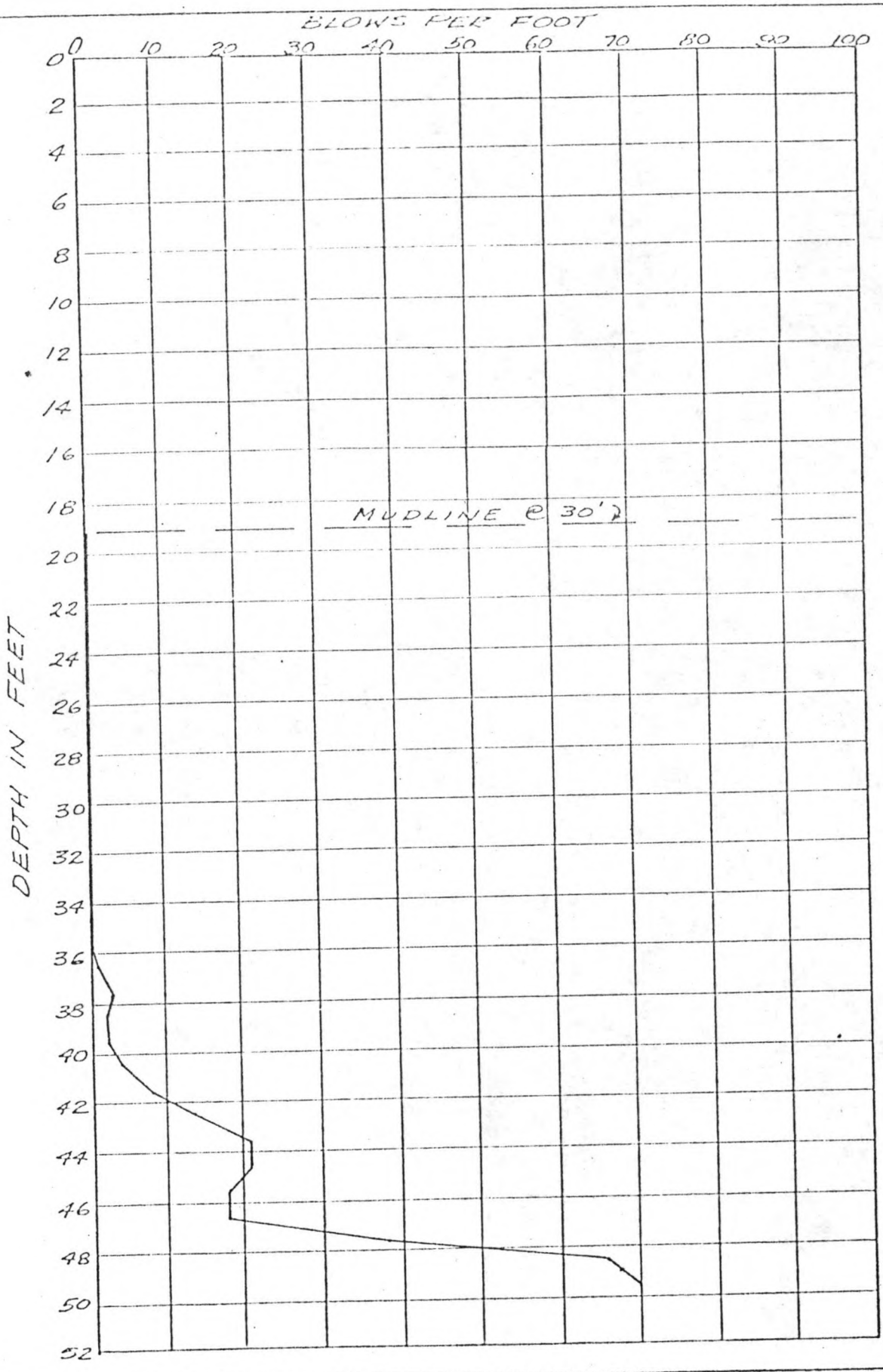
APPROVED BY JMO STS JOB NO. 77530



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 58

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

AVL	JMC	3-29-78	77530



DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 59

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-30-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 60

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater Mudline @ 19'	
20		HS				
25	1	SS				
		HS			SILTY FINE TO MEDIUM SAND, Light Gray, Very Loose to Loose (SM)	
30	2	SS				
		HS				
35						
	3	SS			Trace, Coarse Sand	
40		HS				
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL

W.L WS or WD	BORING STARTED 3/30/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
W.L BCR ACR	BORING COMPLETED 3/30/78	
W.L SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	60 Cont'd)
PROJECT NAME	ARCHITECT-ENGINEER
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

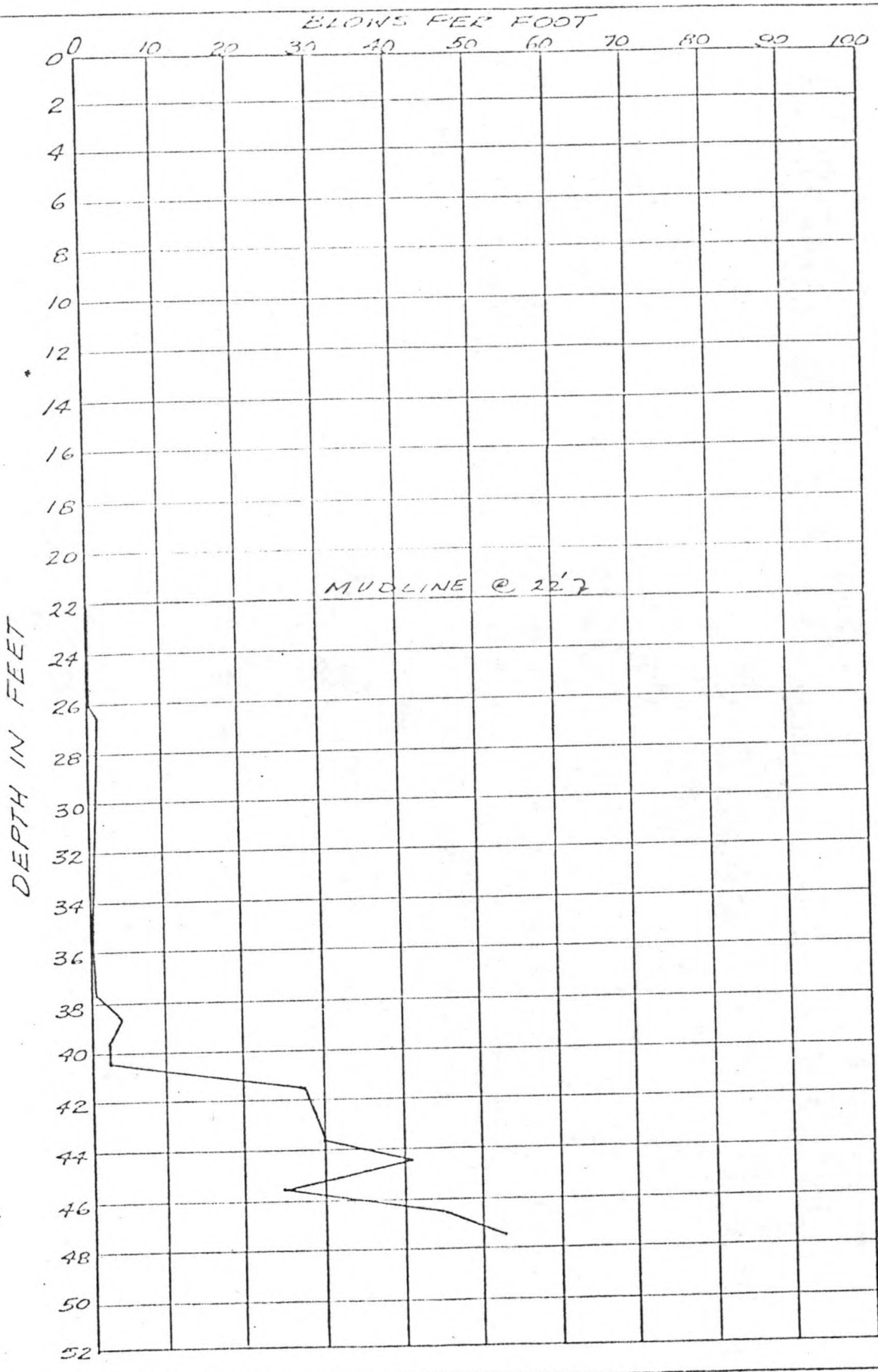
PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
X					SURFACE ELEVATION	
					Continued from Sheet 1	
	4	SS			FINE TO COARSE SAND - SOME SILT & GRAVEL, Light Gray, Loose (SM) (Diabase)	
45		HS				
	5	SS			FINE TO COARSE SAND, SOME GRAVEL - TRACE SILT, Blue Gray, Dense (GM-SM) (Weathered Diabase)	
50		HS				
					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/30/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/30/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY MC STS JOB NO. 77530

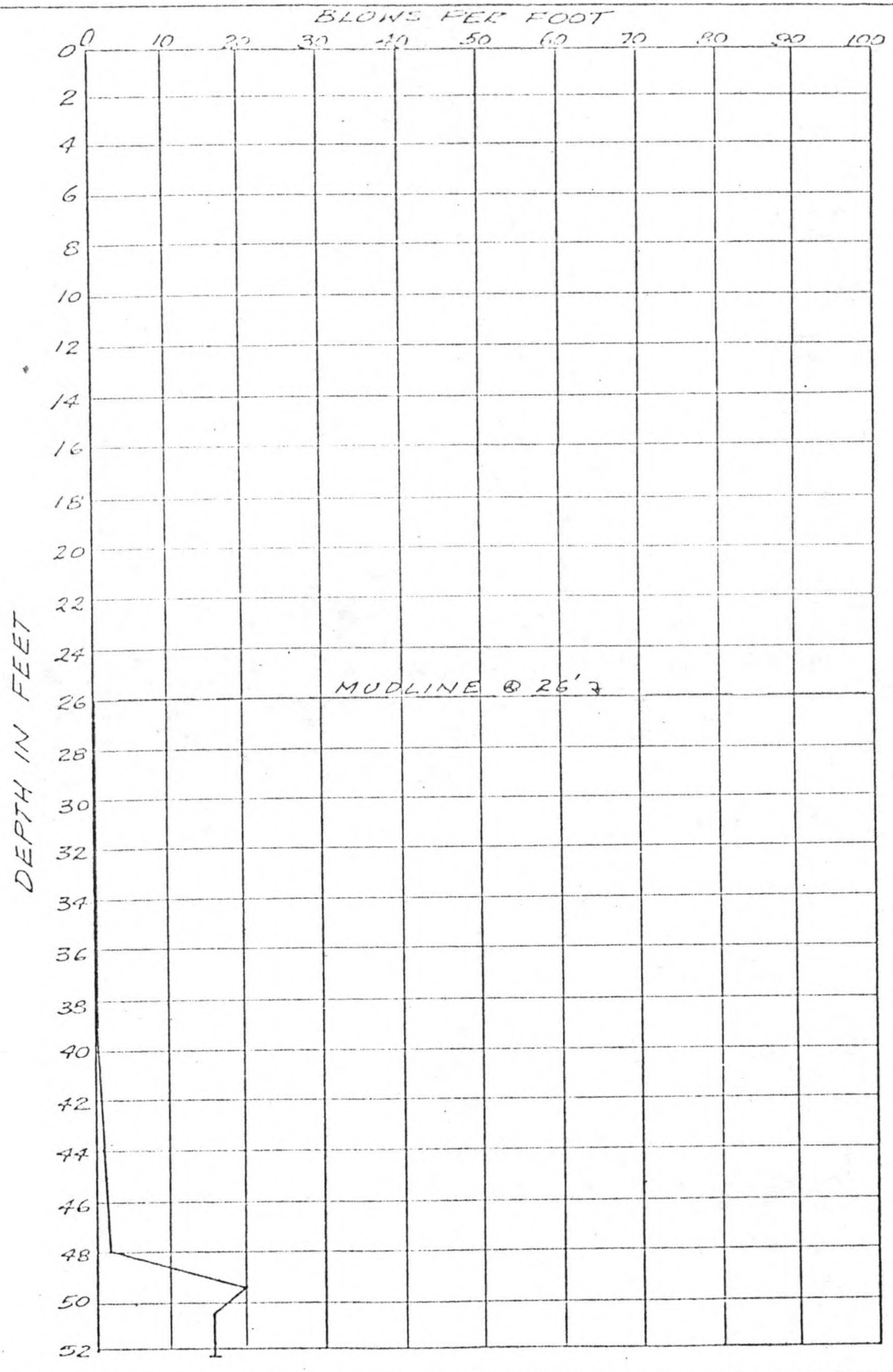


DYNAMIC (SPT) PENETRATION RECORD

PROJECT NO. 61

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

AVL	JMC	3-30-78	77530



DYNAMIC (SPT) PENETRATION RECORD

PROBE No 62

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-20-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 63

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
25					Mudline @ 27'	
		HS				
30	1	SS			SANDY SILT, Blue Gray, Very Loose (ML)	
35						
40		HS		NR		
	2	SS				
45					SANDY SILT, Gray, Loose (ML)	
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/21/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/21/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC — STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 63 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
					SURFACE ELEVATION	
					Continued from Sheet 1	
		HS			SANDY SILT - TRACE GRAVEL, Gray,	
	3	SS			Loose (ML)	
50		HS				
	4	SS			SILTY SAND W/ DIABASE FRAGMENTS, Blue Gray, Medium Dense (SM)	
	5	SS		N/R		
					Bottom of Boring	
55						

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL

W.L. WS OR WD

W.L. BCR ACR

W.L. SEA LEVEL

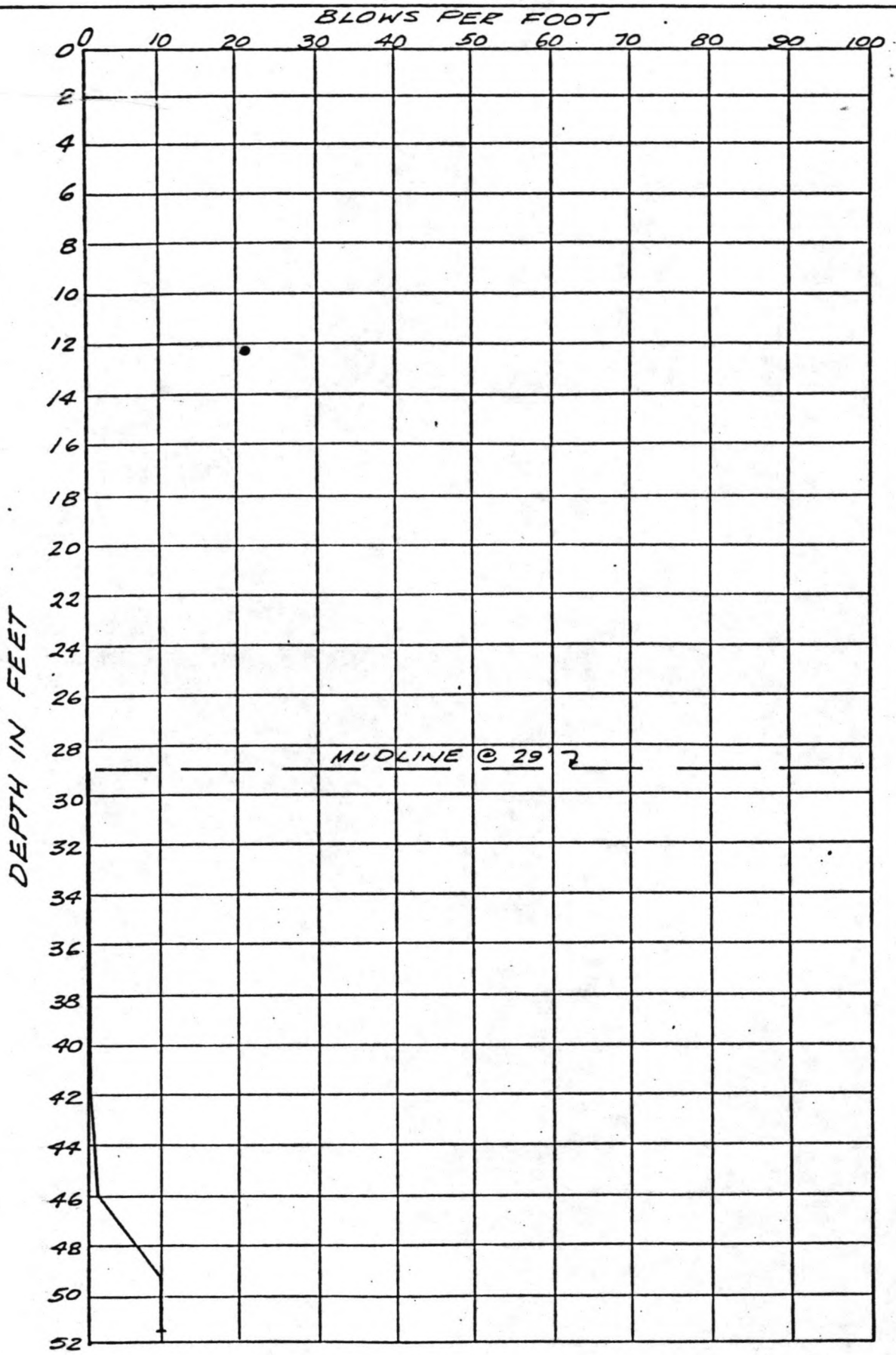
BORING STARTED 3/21/78

BORING COMPLETED 3/21/78

RIG 45-B FOREMAN GVL

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

APPROVED BY JMC STS JOB NO 77530

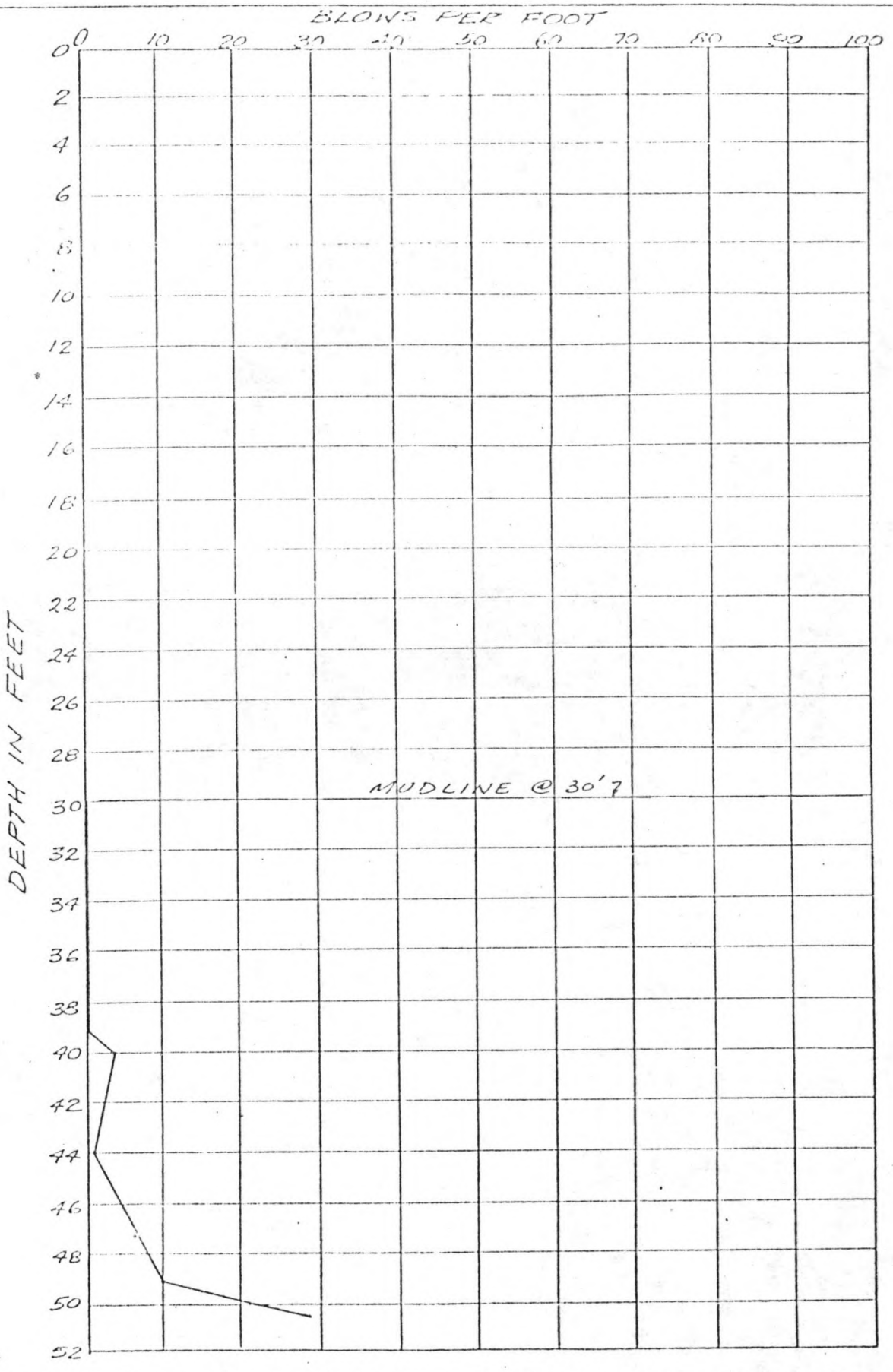


DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 64

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-21-78	77530



DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 65

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-21-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 66

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
10					Mudline @ 13.0'	
15	1	SS			SILTY SAND WITH SHELL FRAGMENTS, Gray, Very Loose to Loose (SM)	
		HS				
20	2	SS				
		HS				
25	3	SS				
		HS			SILTY SAND WITH SHELL FRAGMENTS, Light Gray, Loose (SM)	
30	4	SS				
					Continued on Sheet 2	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

10 20 30 40 50

STANDARD PENETRATION BLOWS/FT. — 10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL

WL WS or WD	BORING STARTED 3/21/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/21/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 66 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

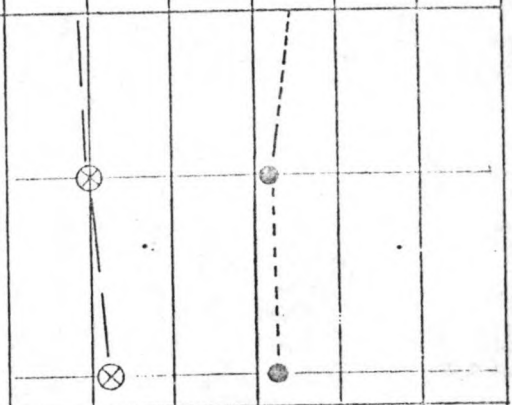
SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION	
					Continued from Sheet 1	
		HS				
35	5	SS			SILTY SAND WITH SHELL FRAGMENTS, Light Gray, Loose to Medium Dense	
		HS				
40	6	SS			Sandy Clay @ 41.5'	
					Bottom of Boring	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % (X) — WATER CONTENT % (O) — LIQUID LIMIT % (Δ) (10 20 30 40 50)

STANDARD PENETRATION (⊗) BLOWS/FT. (10 20 30 40 50)



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

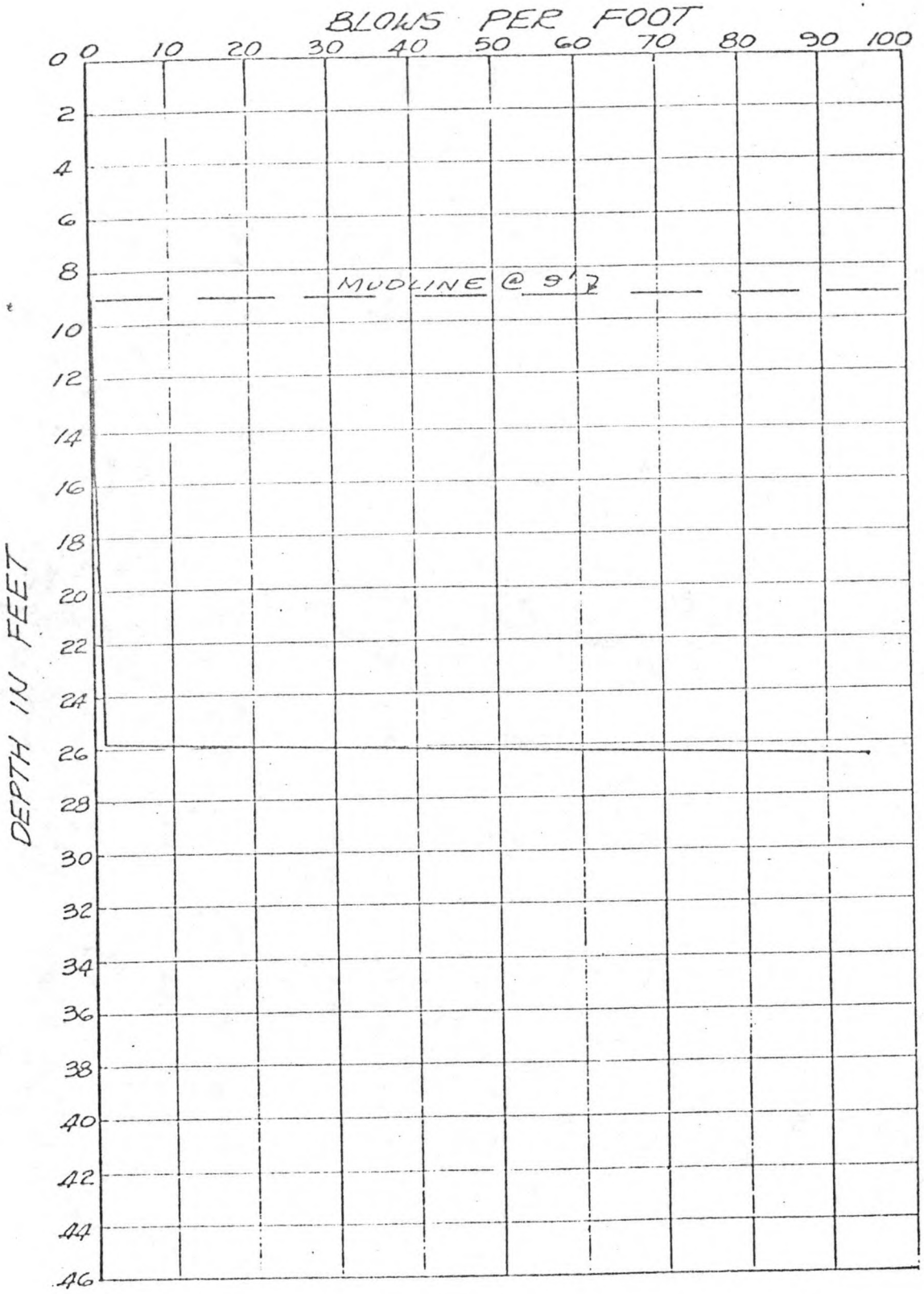
WL - WS or WD | BORING STARTED 3/21/78

WL BCR ACR | BORING COMPLETED 3/21/78

WL SEA LEVEL | RIG 45-B FOREMAN GVL

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

APPROVED BY JMC | STS JOB NO. 775300



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 67

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-21-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 68

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

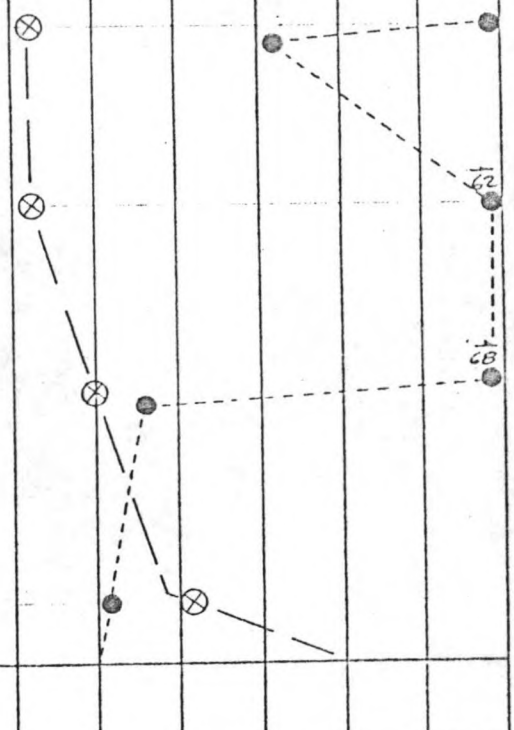
SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % × — WATER CONTENT % C — LIQUID LIMIT % △ (10 20 30 40 50)

STANDARD PENETRATION ⊗ BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION SEA LEVEL	
5		HOLLOW STEM AUGER			Sea Water	
25					Mudline @ 26'	
		HS				
30	1	SS			SILT - TRACE SAND, Gray, Very Loose (ML)	
		HS				
	2	SS				
35		HS			SILTY SAND WITH SHELL, Gray, Very Loose to Loose (SM)	
					PEAT, Brown to Black (Pt)	
	3	SS				
40		RB			GRAVELLY SAND - SOME SILT, Blue-Gray Loose to Medium Dense (SM)	
	4	SS		NR		
45		RB				
					Continued on Sheet 2	



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL W.S or W.D

WL B.C.R A.C.R

WL SEA LEVEL

BORING STARTED 3/22/78

BORING COMPLETED 3/22/78

RIG 45-B FOREMAN GVL

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

APPROVED BY JMC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 68 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

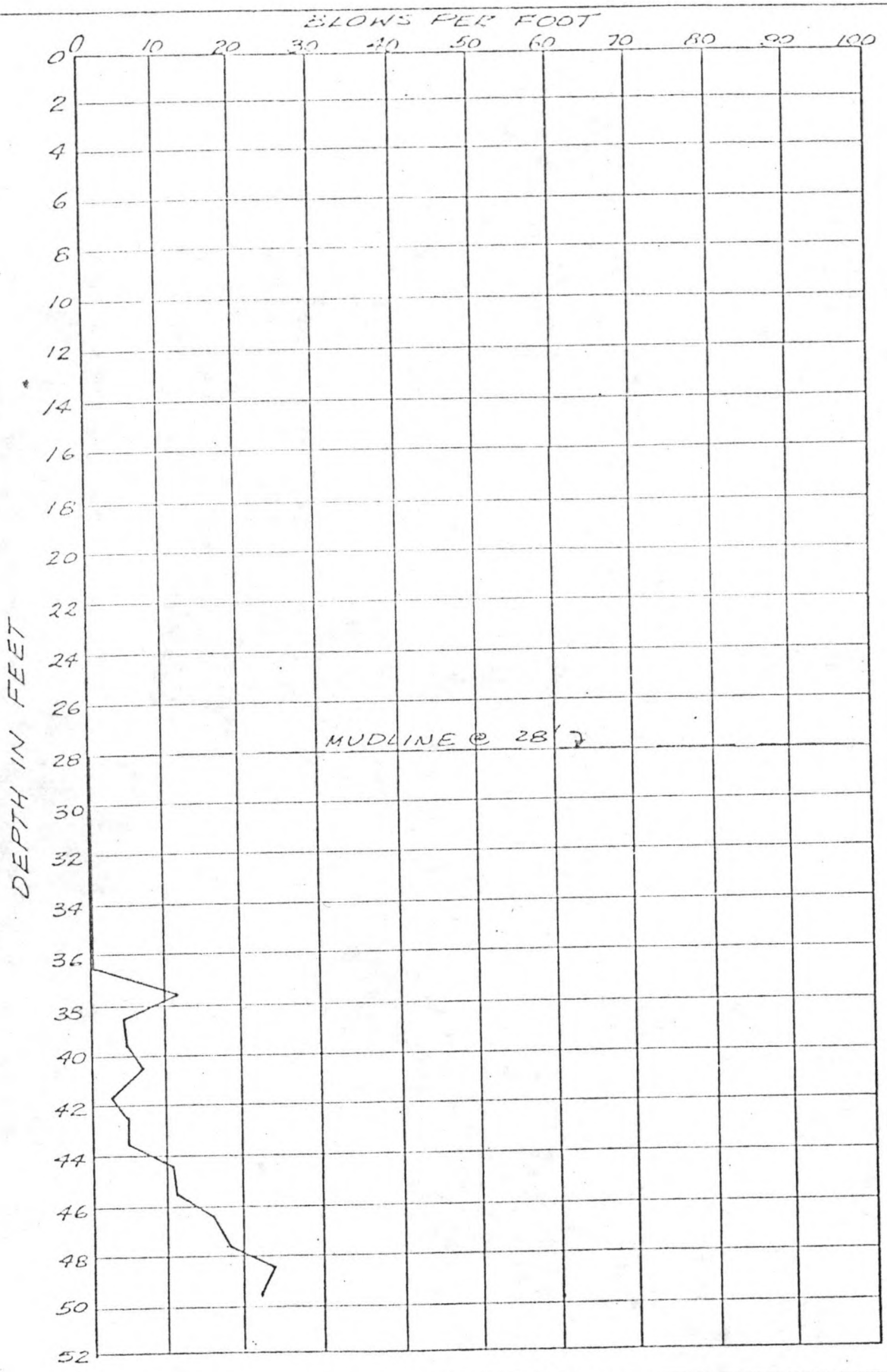
ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
X					SURFACE ELEVATION	
					Continued from Sheet 1	
		RB			SANDY GRAVEL (WEATHERED DIABASE), Blue Gray, Dense (GM)	
	5	SS				
50					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL ____ WS or WD ____ | BORING STARTED 3/22/78 | CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS

WL ____ BCR ____ ACR ____ | BORING COMPLETED 3/22/78

WL SEA LEVEL | RIG 45-B FOREMAN GVL | APPROVED BY MC | STS JOB NO. 77530

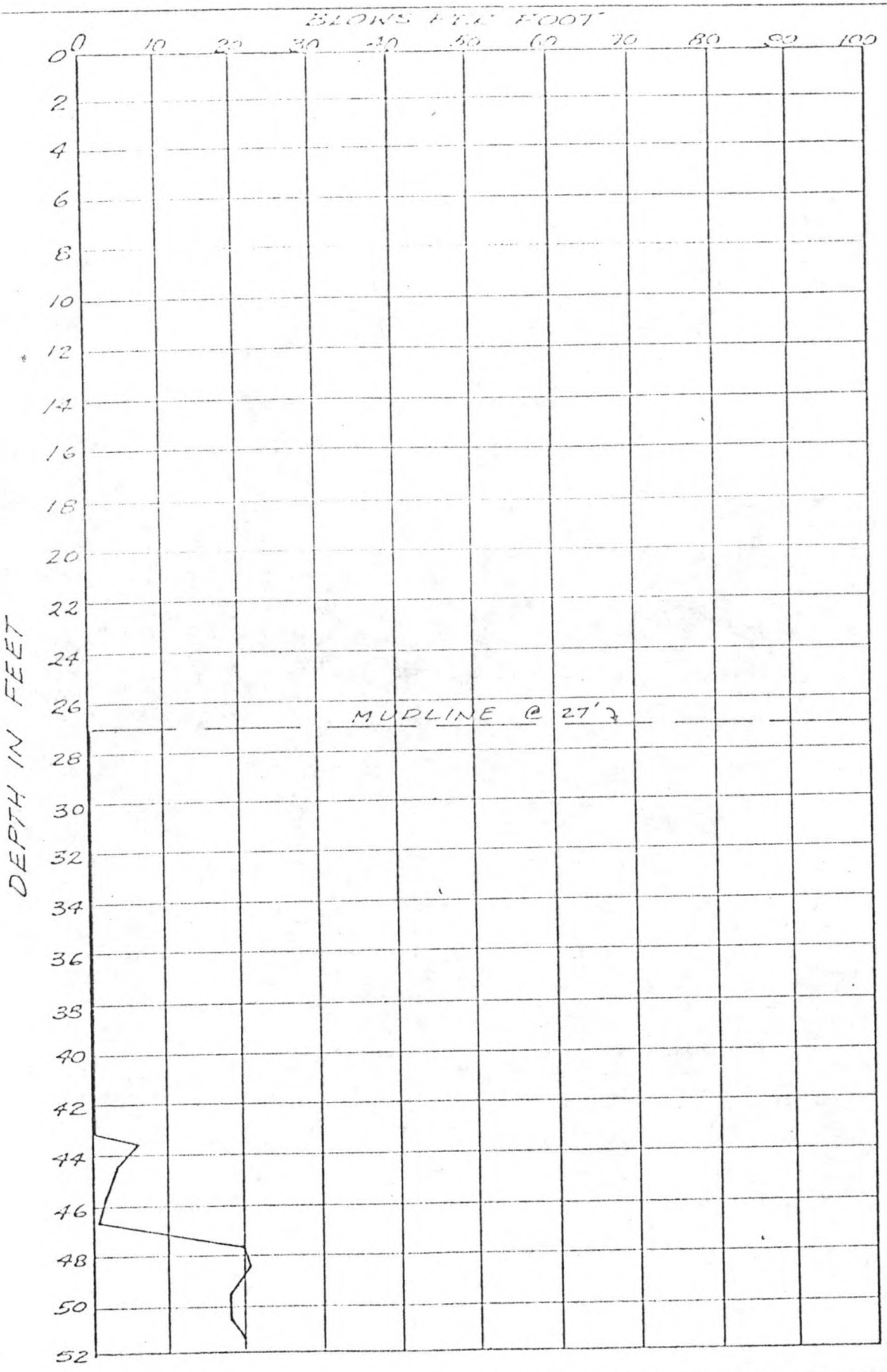


DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 69

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-22-78	77530



DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 70

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-22-78	77530

OWNER: OPENBARE WERKEN CURACAO	LOG OF BORING NUMBER: 71
PROJECT NAME: PROPOSED CONTAINER TERMINAL	ARCHITECT-ENGINEER: O.W.C.
SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2}: 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %: 10 20 30 40 50

STANDARD PENETRATION BLOWS/FT.: 10 20 30 40 50

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
20					Mudline @ 24'	
25		HS				
30	1	SS			SANDY SILT, Gray, Very Loose (ML)	
35		HS			* Sample Obtained with Rod Weight Alone	
40	2	SS				
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/27/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/27/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 71 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

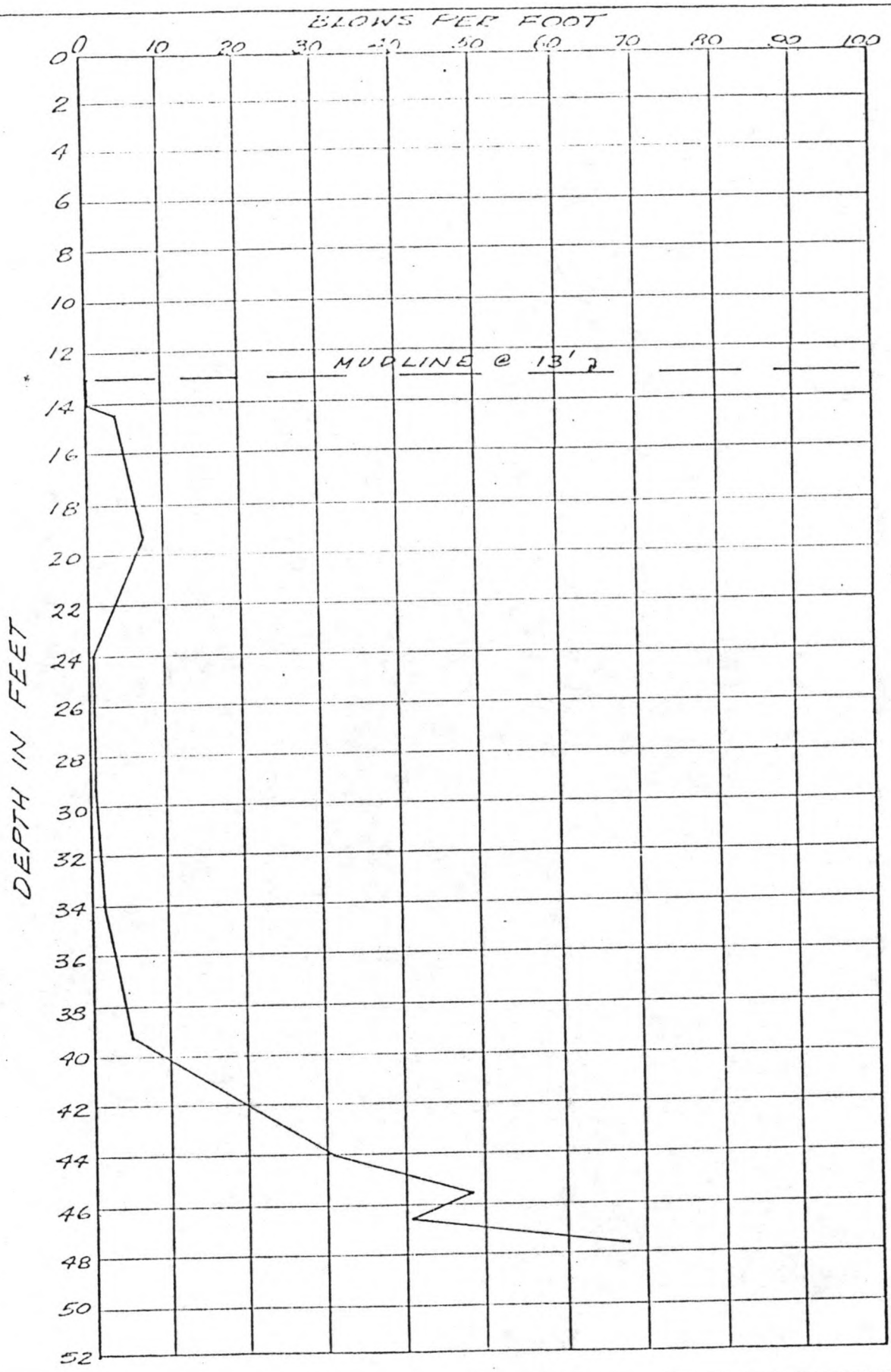
PLASTIC LIMIT % × — WATER CONTENT % C — LIQUID LIMIT % △ (10 20 30 40 50)

STANDARD PENETRATION ⊗ BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
X					SURFACE ELEVATION	
					Continued from Sheet 1	
45		HS			SILT - TRACE SAND AND ROOTS, Gray, Very Loose (ML)	
	3	SS			FINE TO COARSE SAND - TRACE SHELL AND CORAL FRAGMENTS, Gray, Loose to Medium Dense	
50		HS			Diabase Fragments Below 53'	
55	4	SS			Bottom of Boring	
60						

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/27/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/27/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC CSTS JOB NO. 77530

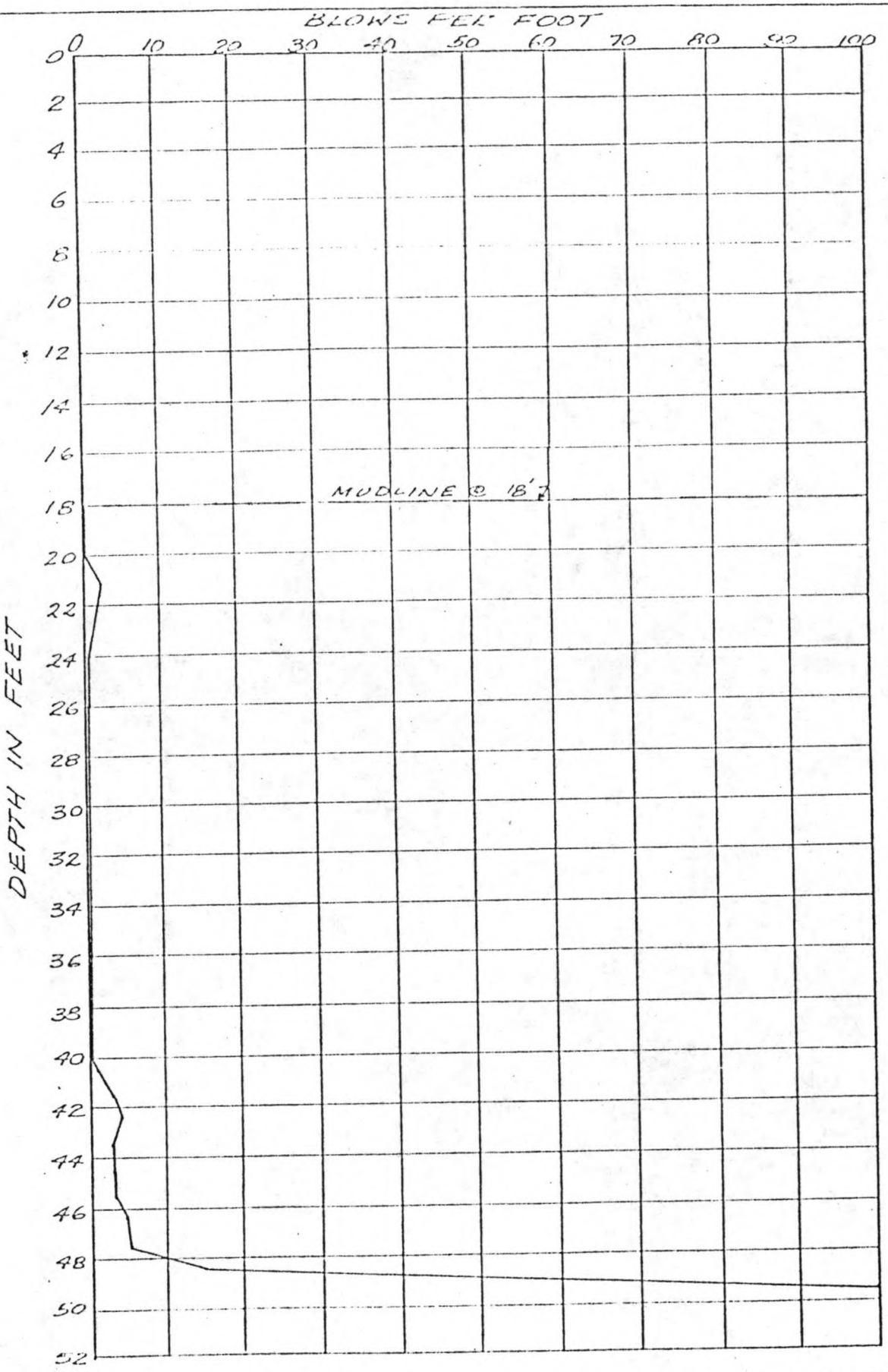


DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 72

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-30-78	77530



DYNAMIC (SPT) PENETRATION RECORD

PROBE Nº 73

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-30-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 74

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
10					Mudline @ 12'	
		HS				
15	1	SS		NR	SILTY SAND, Gray, Very Loose (SM)	
		HS				
20	2	SS			SILTY SAND WITH SHELL FRAGMENTS, Gray, Very Loose (SM)	
		HS				
25	3	SS			SILTY SAND - SOME GRAVEL, Gray, Medium Dense (SM)	
		HS			SANDY SILT WITH CORAL AND SHELL FRAGMENTS, Gray, Very Loose (SM)	
30	4	SS				
					Continued on Sheet 2	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

10 20 30 40 50

STANDARD PENETRATION BLOWS/FT. — 10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS OR WD	BORING STARTED 3/29/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/29/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO 77530

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	7L (Cont'd)
PROJECT NAME	ARCHITECT-ENGINEER
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
X					SURFACE ELEVATION	
					Continued from Sheet 1	
		HS			See Note #1 FINE TO COARSE SAND - SOME SILT AND GRAVEL, Gray-Brown (Weathered Diabase), Dense	
35	5	SS				
		HS			SANDY GRAVEL (Diabase Fragments) Gray-Brown, Very Dense	
40	6	SS		N/R		
					Bottom of Boring	
					Note #1 SANDY SILT - SOME GRAVEL, CORAL AND SHELL, Gray, Loose (SM)	

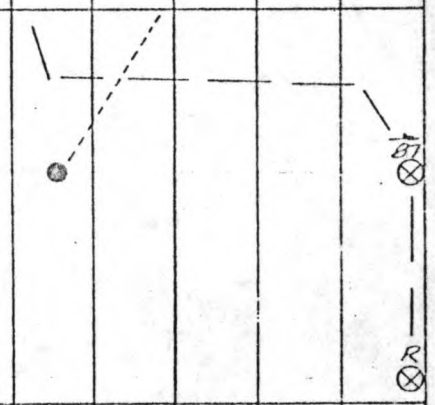
UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

10 20 30 40 50

STANDARD PENETRATION BLOWS/FT.

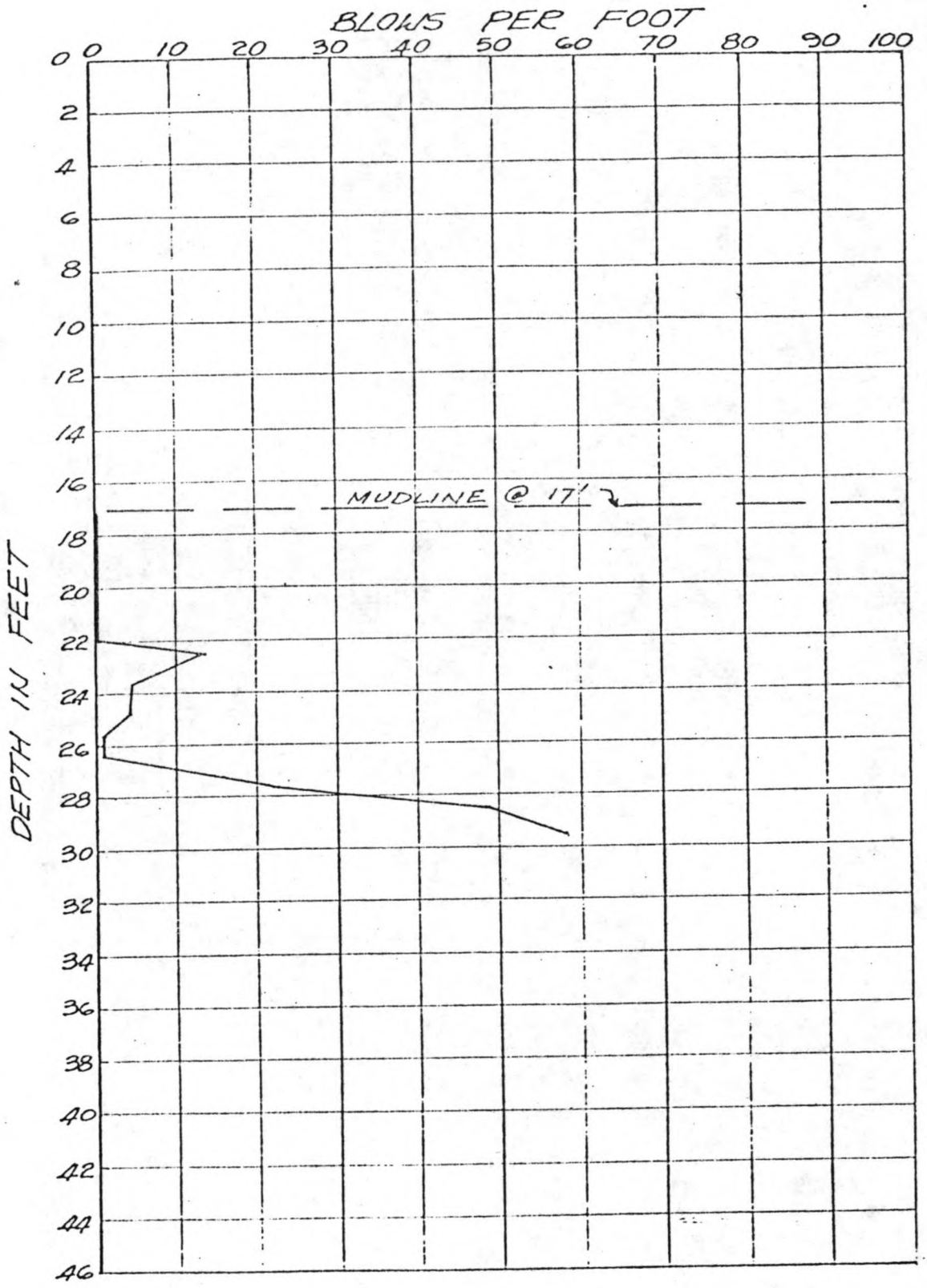
10 20 30 40 50



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL

WL WS or WD	BORING STARTED 3/29/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/29/78	
WL SEA LEVEL	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

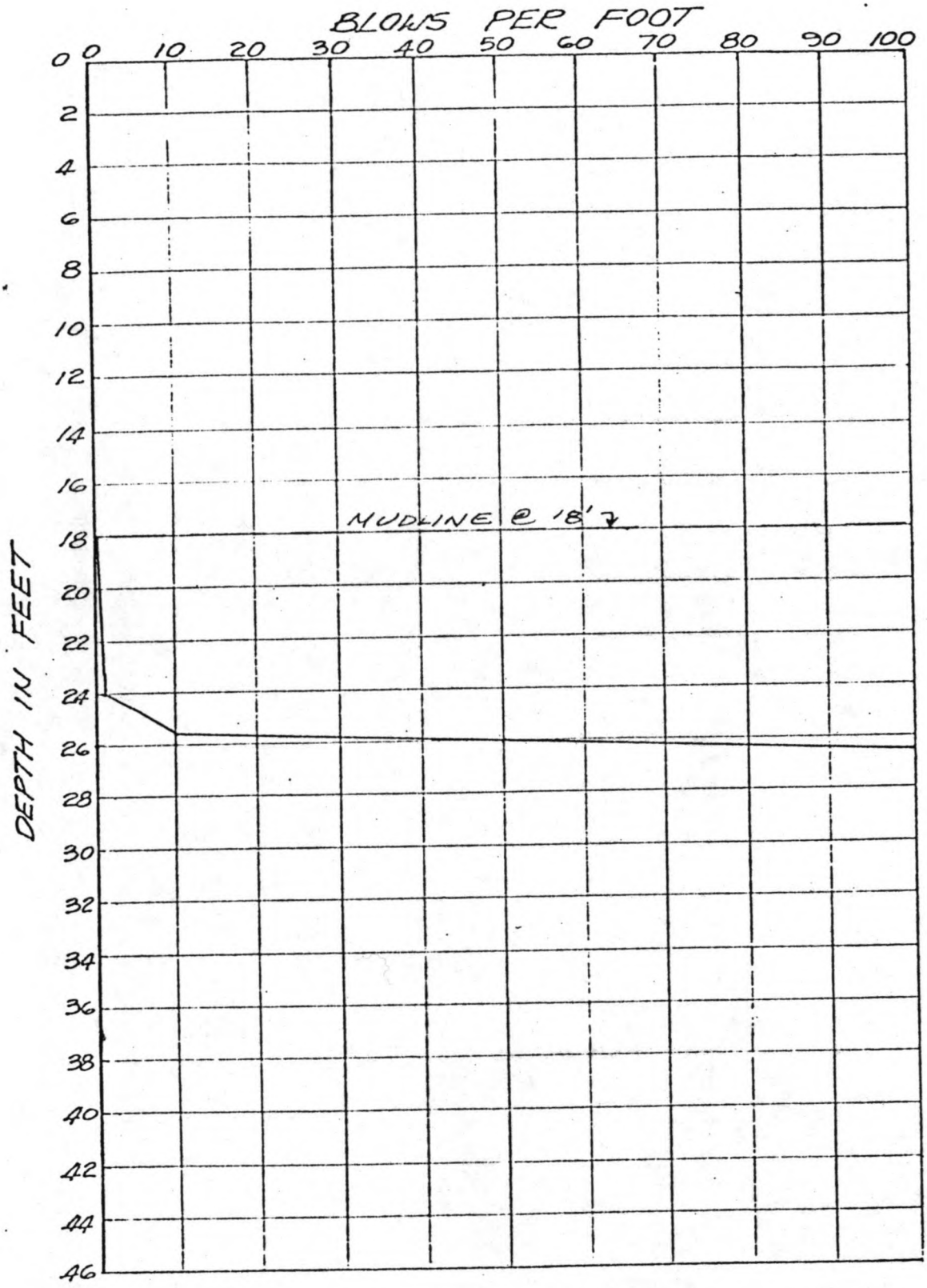
BH-1



DYNAMIC (SPT) PENETRATION.
RECORD
PROBE NO. 75

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-29-78	77530



DYNAMIC (SPT) PENETRATION RECORD
PROBE NO. 76

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

GVL	JMC	3-28-78	77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 77

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
10					Mudline @ 12'	
	1	SS				
15		HS			SILTY SAND, TRACE GRAVEL W/ SHELL FRAGMENTS, Gray, Very Loose to Loose (SM)	
	2	SS				
20		HS				
	3	SS				
25		HS			MEDIUM TO COARSE SAND - SOME GRAVEL, Gray-Brown, Very Dense (Weathered Diabase)	
	4	SS		NR		
30					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL — WS OR WD

WL — BCR — ACR

WL SEA LEVEL

BORING STARTED 3/28/78

BORING COMPLETED 3/28/78

RIG 45-B FOREMAN GVL

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

APPROVED BY MC

STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 78

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
5		HOLLOW STEM AUGER			Seawater	
					Mudline @ 29'	
30	1	AS				
		HS				
	2	AS			SILTY MARINE SAND WITH SHELL - TRACE TO SOME CLAY, Gray to Lt. Gray, Loose	
35		HS				
	3	AS				
40		HS			(SM)	
					diabase fragments @ 43'	
45	4	SS			SILTY SAND WITH SHELL, Lt. Gray, Medium Dense (SM)	
		HS			HIGHLY WEATHERED ROCK, Brown (diabase)	
50	5	SS				
					Continued on Sheet 2	

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THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 8-14-78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 8-14-78	
WL Sea Level	RIG 45-B FOREMAN KDE	APPROVED BY JMC STS JOB NO. 77530-S

BL:1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 78 (Continued)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % (10 20 30 40 50) / STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)
X					SURFACE ELEVATION Sea Level		
					Continued from Sheet 1		
		RB			WEATHERED ROCK, Brown (diabase)		
55	6	SS					R
					Bottom of Boring		
60							

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES; IN-SITU, THE TRANSITION MAY BE GRADUAL

WS or WD	BORING STARTED 8-14-78	CARIBBEAN SOIL ENGINEERS, INC.
CR ACR	BORING COMPLETED 8-14-78	SOIL AND FOUNDATION CONSULTANTS
Sea Level	RIG 45-B FOREMAN KDE	APPROVED BY JMC STS JOB NO 77530-S

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	79
PROJECT NAME	**ARCHITECT-ENGINEER**
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
X					SURFACE ELEVATION Sea Level	
		HOLLOW STEM AUGER			Seawater Mudline @ 3.5'	
5		HS			SILTY SAND - TRACE SHELL AND CLAY, Tan, Very Loose (Possible Fill)	
10						
15						
20	1	SS			(SM)	
		HS			SANDY FINE GRAVEL WITH SHELL, Tan, Loose (GP)	
25					Diabase lens @ 24' See Note #1	
	2	SS				
		HS			WEATHERED ROCK, Dark Gray-Green	
30						
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL	WS OR WD	BORING STARTED 8-14-78
BCR	AFTER	BORING COMPLETED 8-14-78
Sea Level	45-B	KDE

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

APPROVED JMC JOB # 77530-S

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER 79 (Continued)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1, 2, 3, 4, 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10, 20, 30, 40, 50)

STANDARD PENETRATION BLOWS/FT. (10, 20, 30, 40, 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION Sea Level	
					Continued from Sheet 1	
35		RB			WEATHERED DIABASE, Dark Brown to Brown	
	3	C UT G	XX	XX		
40		RB				
	4	C UT G	XX	XX		
					Bottom of Boring	
45					NOTE #1 - SILTY SAND WITH SHELL FRAGMENTS, Tan, Loose (SM)	
					X X - Indicates Rock Bit Cuttings Recovered	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 8-14-78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 8-14-78	
WL Sea Level	RIG 45-B FOREMAN KDE	APPROVED BY JMC STS JOB NO. 77530-S

BL:1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 80

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
					SURFACE ELEVATION 6.6 (ft.)	
X	1	SS			FILL, Silty Sand and Gravel with Shell and Coral Fragments, Light Tan to Gray-Brown	
		HS				
	2	SS				
5		HS				
	3	SS				
		HS				
	4	SS				
10		HS			FILL, Silty Sand - Trace Gravel, Shell and Coral Fragments, Gray	
	5	SS				
15		HS				
	6	SS				
20		HS			SAND - TRACE TO SOME SILT WITH CORAL AND SHELL, Gray, Loose (SM-SP)	
	7	SS				
25		HS				
	8	SS				
30		HS				
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/14/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/14/78	
WL 4.3' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

BL-1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 80 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % (10 20 30 40 50) / STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)
X					SURFACE ELEVATION		
					Continued from Sheet 1		
		HS			SANDY SILT - TRACE CLAY AND SHELL, Blue-Gray, Loose		
	9	SS					
35					Bottom of Boring		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL	WS or WD	BORING STARTED 3/14/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL	BCR ACR	BORING COMPLETED 3/14/78	
WL	4.3' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

BL-1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 81

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
X					SURFACE ELEVATION 6.6 (ft.)	
	1	SS			FILL, Silty Sand and Gravel, Gray Brown	
		HS				
	2	SS				
5		HS				
	3	SS				
		HS				
	4	SS			FILL, Silty Sand - Some Gravel with Shell and Coral Fragments, Light Gray	
10		HS				
	5	SS			FILL, Sand - Trace Gravel and Shell and Diabase Fragments, Gray	
15		HS				
	6	SS				
20		HS				
	7	SS				
25		HS				
	8	SS			SILTY SAND - TRACE TO SOME GRAVEL, Light Gray, Medium Dense (SM)	
30		HS				
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/15/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/15/78	
WL 6.0' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

BL-1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 81 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
X					SURFACE ELEVATION	
					Continued from Sheet 1	
		HS				
	9	SS			SAND - TRACE SILT AND PEAT, Gray (ML-DL)	
35					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL	WS or WD	BORING STARTED 3/15/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL	BCR ACR	BORING COMPLETED 3/15/78	
WL	6.0' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

BL-1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 82

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL
					SURFACE ELEVATION 6.6 (ft.)
X	1	SS			FILL, Silty Sand - Some Gravel, Brown
		HS			
	2	SS			
5		HS			
	3	SS			
		HS			
	4	SS			
10		HS			FILL, Silty Sand and Gravel, Brown
	5	SS			
15		HS			
	6	SS			
20		HS			SANDY SILT, Blue Gray, Very Loose (ML)
	7	SS			
25		HS			SILTY MARINE SAND WITH SHELL & CORAL, Blue-Gray, Loose (SM)
	8	SS			
30		HS			
					Continued on Sheet 2

UNIT DRY WT. LBS./FT.³

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

10 20 30 40 50

STANDARD PENETRATION BLOWS/FT.

10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL

WL WS or WD	BORING STARTED 3/16/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/16/78	
WL 5.5' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY MC STS JOB NO. 77530

BL-1

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	82 (Cont'd)
PROJECT NAME	ARCHITECT-ENGINEER
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
X					SURFACE ELEVATION	
					Continued from Sheet 1	
		HS			SILTY MARINE SAND WITH SHELL, Light Gray, Loose (SM)	
	9	SS				
35					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/16/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/16/78	
WL 5.5' A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

Bl-1

OWNER: OPENBARE WERKEN CURACAO	LOG OF BORING NUMBER: 83
PROJECT NAME: PROPOSED CONTAINER TERMINAL	ARCHITECT-ENGINEER: O.W.C.
SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION 13.1 (ft.)	
X	1	SS				
		HS				
	2	SS				
5		HS				
	3	SS			FILL, Silty Sand & Gravel with Coral Fragments, Gray-Brown	
		HS				
	4	SS				
10		HS				
	5	SS				
15		HS			FILL, Sand - Some Silt, Blue Gray (Oily Odor)	
	6	SS				
20		HS			FILL, Silty Sand and Gravel, Brown	
	7	SS				
25		HS			SANDY SILT - TRACE GRAVEL & PEAT, Blue Gray, Loose (ML) (Oily Odor)	
	8	SS				
30		HS				
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL	WS or WD	BORING STARTED 3/15/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL	BCR ACR	BORING COMPLETED 3/15/78	
WL 4.8' - A.B.		RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77350

BL-1

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	83 (Cont'd)
PROJECT NAME	**ARCHITECT-ENGINEER**
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION	
					Continued from Sheet 1	
	9	SS			SANDY SILT - TRACE GRAVEL & CLAY - TRACE ORGANICS, Blue Gray, Loose (ML)	
		HS				
35	10	SS				
		HS				
40					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/15/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/15/78	
WL 4.8' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO	LOG OF BORING NUMBER: 84
PROJECT NAME: PROPOSED CONTAINER TERMINAL	ARCHITECT-ENGINEER: O.W.C.
SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION 6.6 (ft.)	
X	1	SS			FILL, Silty Sand - Trace to Some Gravel, Gray-Brown	
		HS				
	2	SS				
5		HS				
	3	SS				
		HS				
	4	SS			Trace Organics	
10		HS				
	5	SS			FILL, Silty Sand - Some Gravel and Shell, Gray	
15		HS				
	6	SS				
20		HS				
	7	SS			SILTY SAND - TRACE TO SOME SAND, TRACE CLAY, Gray, Very Loose to Loose (Possible Fill) (SM)	
25		HS				
	8	SS			SANDY SILT - TRACE GRAVEL, Gray-Brown	
30		HS				
					Continued on Sheet 2	

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THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL	WS or WD	BORING STARTED 3/16/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL	BCR ACR	BORING COMPLETED 3/16/78	
WL 3.8' - A.B.		RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER	LOG OF BORING NUMBER
OPENBARE WERKEN CURACAO	84 (Cont'd)
PROJECT NAME	**ARCHITECT-ENGINEER**
PROPOSED CONTAINER TERMINAL	O.W.C.
SITE LOCATION	
PORT OF CURACAO, NETHERLANDS ANTILLES	

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % (10 20 30 40 50) / STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)
X					SURFACE ELEVATION		
					Continued from Sheet 1		
		HS			SAND - TRACE TO SOME SILT, Light Gray, Very Loose (SM-SP)		⊗ / ●
	9	SS					
35					Bottom of Boring		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/16/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/16/78	
WL 3.8' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 85

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
					SURFACE ELEVATION 13.1 (ft.)	
	1	SS			FILL, Silty Sand and Gravel, Tan	
		HS				
	2	SS			FILL, Silty Sand - Some Gravel and Shell, Brown	
5		HS				
	3	SS			FILL, Silty Sand and Gravel, Tan	
		HS				
	4	SS		NR		
10		HS				
					FILL, Silt - Some Sand, Trace Organics, gray, (Oily Odor)	
	5	SS				
15		HS			FILL, Silty Sand - Trace Gravel, Gray	
	6	SS				
20		HS			SILTY GRAVEL - SOME SAND AND DIABASE FRAGMENTS, Gray-Brown, Very Dense (GM)	
	7	SS				
25		HS			SILTY SAND - TRACE GRAVEL AND DIABASE FRAGMENTS, Gray-Brown, Very Dense (SM) (Weathered Diabase)	
	8	SS				
30					Bottom of Boring	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/16/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/16/78	
WL 5.0' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

BL:1

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 86

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1 2 3 4 5)

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % (10 20 30 40 50)

STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.^{3}
					SURFACE ELEVATION 6.6 (ft.)	
X	1	SS			FILL, Silty Sand - Some Gravel, Brown	
		HS				
	2	SS			FILL, Silty Sand - Some Gravel, Coral and Shell, Brown	
5		HS				
	3	SS				
		HS				
	4	SS				
10		HS			FILL, Silty Sand - Trace to Some Gravel, Shell and Coral Fragments, Gray	
	5	SS				
15		HS				
	6	SS				
20		HS				
	7	SS			SAND - TRACE TO SOME SILT AND ORGANICS, Gray, Loose (SP-SM)	
25		HS				
	8	SS			ORGANIC SILT - TRACE WOOD AND PEAT, Dark Brown, Loose (DL)	
30		HS				
					Continued on Sheet 2	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL WS or WD	BORING STARTED 3/17/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL BCR ACR	BORING COMPLETED 3/17/78	
WL 5.0' - A.B.	RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

OWNER: OPENBARE WERKEN CURACAO

LOG OF BORING NUMBER: 86 (Cont'd)

PROJECT NAME: PROPOSED CONTAINER TERMINAL

ARCHITECT-ENGINEER: O.W.C.

SITE LOCATION: PORT OF CURACAO, NETHERLANDS ANTILLES

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % (10 20 30 40 50) / STANDARD PENETRATION BLOWS/FT. (10 20 30 40 50)
X					SURFACE ELEVATION		
					Continued from Sheet 1		
		HS			SAND - SOME SILT AND GRAVEL, Gray-Brown, Very Dense (Diabase) (SP)		
	9	SS					
35					Bottom of Boring		

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WL	WS or WD	BORING STARTED 3/17/78	CARIBBEAN SOIL ENGINEERS, INC. SOIL AND FOUNDATION CONSULTANTS
WL	BCR ACR	BORING COMPLETED 3/17/78	
WL 5.0' - A.B.		RIG 45-B FOREMAN GVL	APPROVED BY JMC STS JOB NO. 77530

PL-1

BORING: LOCATION:

SAMPLE NO	DEPTH BELOW SEABED IN FEET	CLASSIFICATION	WET DENSITY t/m³	DRY DENSITY t/m³	POROSITY %	VOID RATIO	SAT DEGREE %	WATER CONTENT %
23	15.38	sand grey fine silty, some coarse particles and stones	2,15	1,88	29,26	0,4	95,8	15,0
22	14.95	sand grey fine silty, some coarse particles.	1,93	1,69	36,35	0,6	67,0	14,4
21	15.00	sand grey fine silty, some coarse particles	2,09	1,79	32,57	0,5	94,4	17,2
17	15.40	sand grey fine silty, some coarse particles and stones	2,13	1,81	31,58	0,5	100,0	17,4
16	15.50	sand grey fine silty, some coarse particles	1,81	1,38	47,78	0,9	89,6	30,9
15	17.60	sand grey fine silty, some coarse particles	1,86	1,64	38,03	0,6	56,1	13,0
13	15.40	sand grey silty, very clayey shellfragments	1,97	1,54	42,04	0,7	97,0	28,1
13	15.60	sand grey fine silty, little clayey, few shellfragments.	1,92	1,47	44,52	0,8	100,0	30,4

GEOTECHNISCH CESCO

Soil samples from Netherlands Antilles.

DENSITIES AND WATERCONTENTS

Mde Dr. Ch.

PROJ. NO. K-1015-1

PLATE

224-9/4

FUGRO-CESCO

Soil samples from Netherlands Antilles.

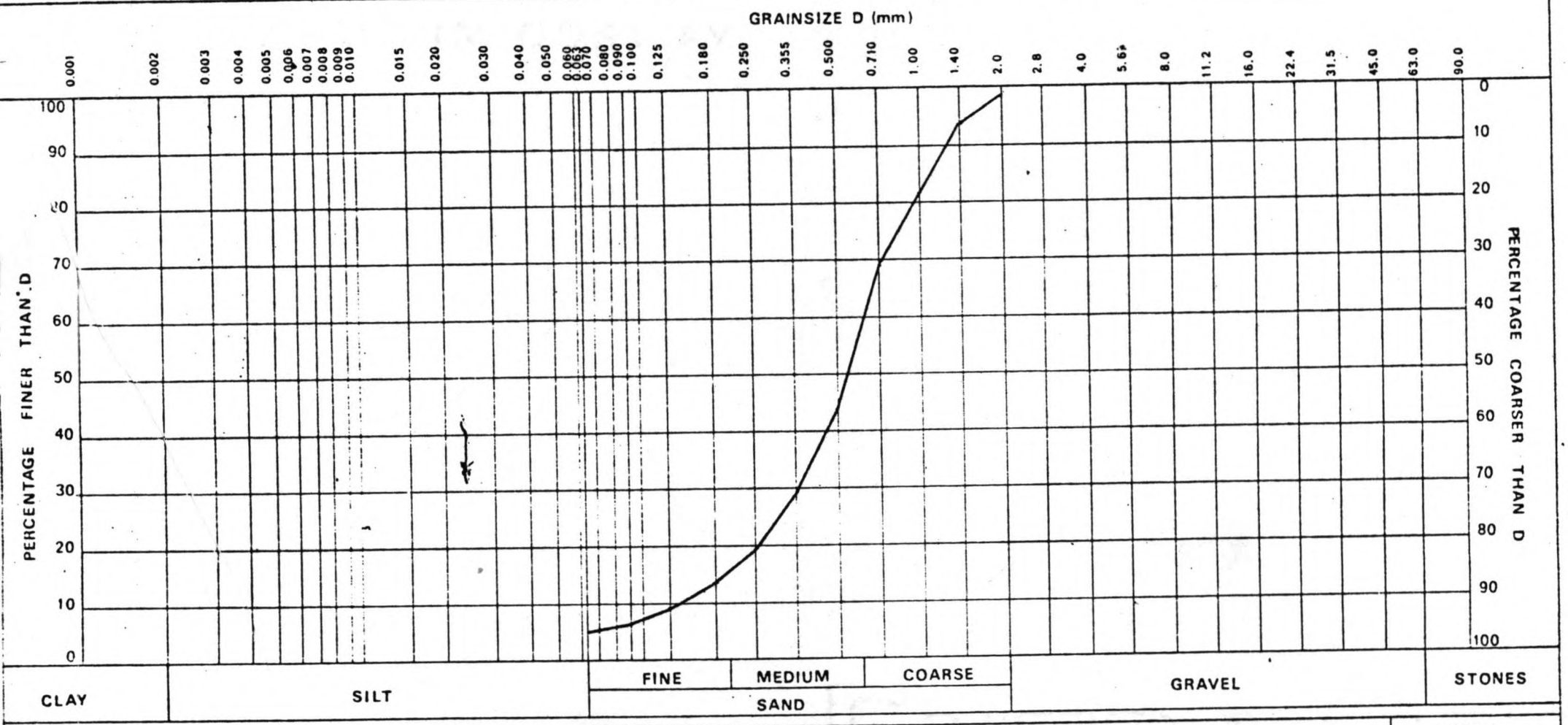
RESULTS CONSOLIDATION TEST

Mde | Dr. | Ch.

PROJ. NR K-1015-2

BORING NR.	SAMPLE NR.	DEPTH BELOW GROUND-LEVEL IN M	DESCRIPTION	WET DENSITY (t/m³)	DRY DENSITY (t/m³)	$\frac{1}{C_{p1}}$	$\frac{1}{C_{s1}}$	C_1	Pg (kgf/cm²)	$\frac{1}{C_{p2}}$	$\frac{1}{C_{s2}}$	C_2	C_v (cm²/sek)	K (cm/sek)
23		15,38	sand grey fine, silty	2,15	1,88	0,0148	0,0017	46,0	3,0	0,0333	0,0006	16,8		
22		14,95	sand, grey fine silty	1,93	1,69	0,024	0,0013	33,1	5,7	0,0398	0,0072	14,5		
17		15,40	sand, grey fine silty	2,15	1,84	0,0163	0,0006	52,9	2,1	0,0333	0,0029	22,3		
16		15,50	sand grey fine silty	1,81	1,38	0,0367	0,0004	26	9,8	0,058	0,0065	11,9		
13		15,40	sand grey fine, silty, very clayey	1,97	1,54	0,028	0,0009	23,7	2,3	0,038	0,0058	16,2		
13		15,60	sand grey fine silty, little clayey	1,93	1,47	0,026	0,0015	30,9	2,4	0,046	0,0005	15,2		

212-1074



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
14		—	sand grey fine, little silty, some coarse particles	16.20 m

FUGRO·CESCO

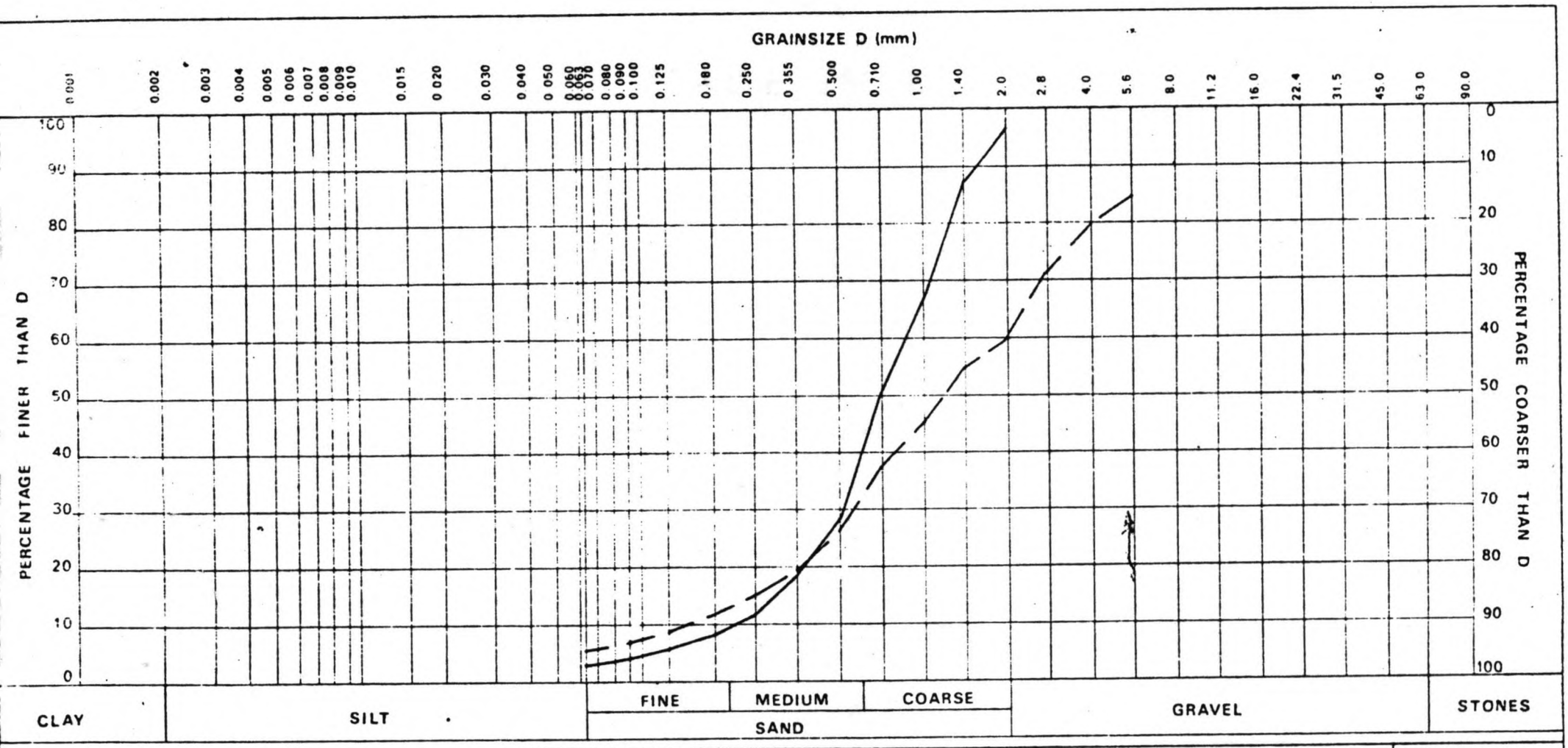
Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

Mde:	7-1-76	LL
Dr		
Ch		

Proj. nr. K-1015 -11

45-974



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
15		—.	sand grey fine, silty, some coarse particles	16.75 m
15		--	sand grey fine, little silty, some coarse diabase particles	17.35m

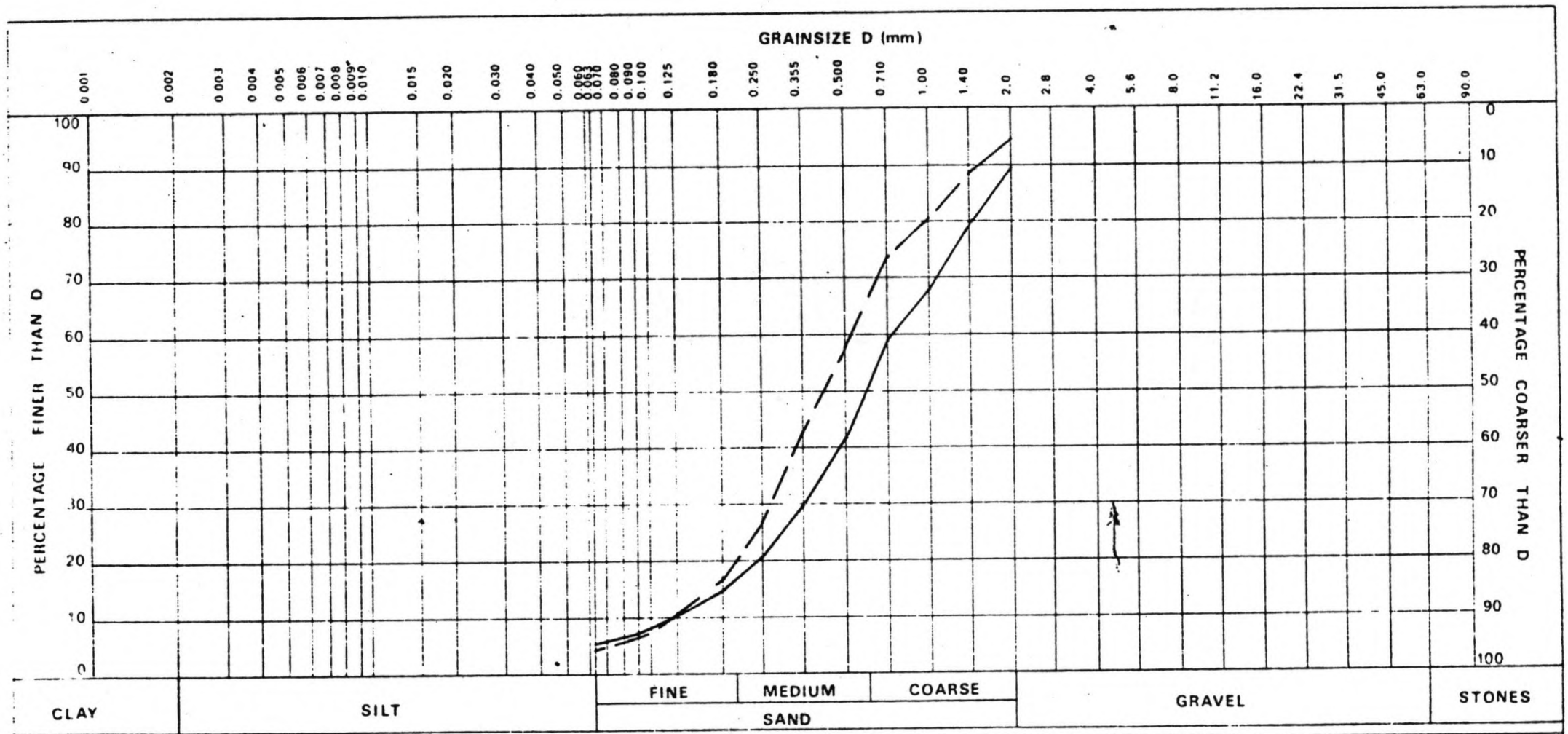
FUGRO·CESCO

Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

Mde	7-1-75	LL
Dr		
Ch		

Proj. nr. K-1015-10



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
16		—	sand grey, fine, silty, some coarse particles	15.20 m
16		--	sand grey fine, silty, some coarse particles	15.55 m

FUGRO•CESCO

Soil samples from Netherlands Antilles.

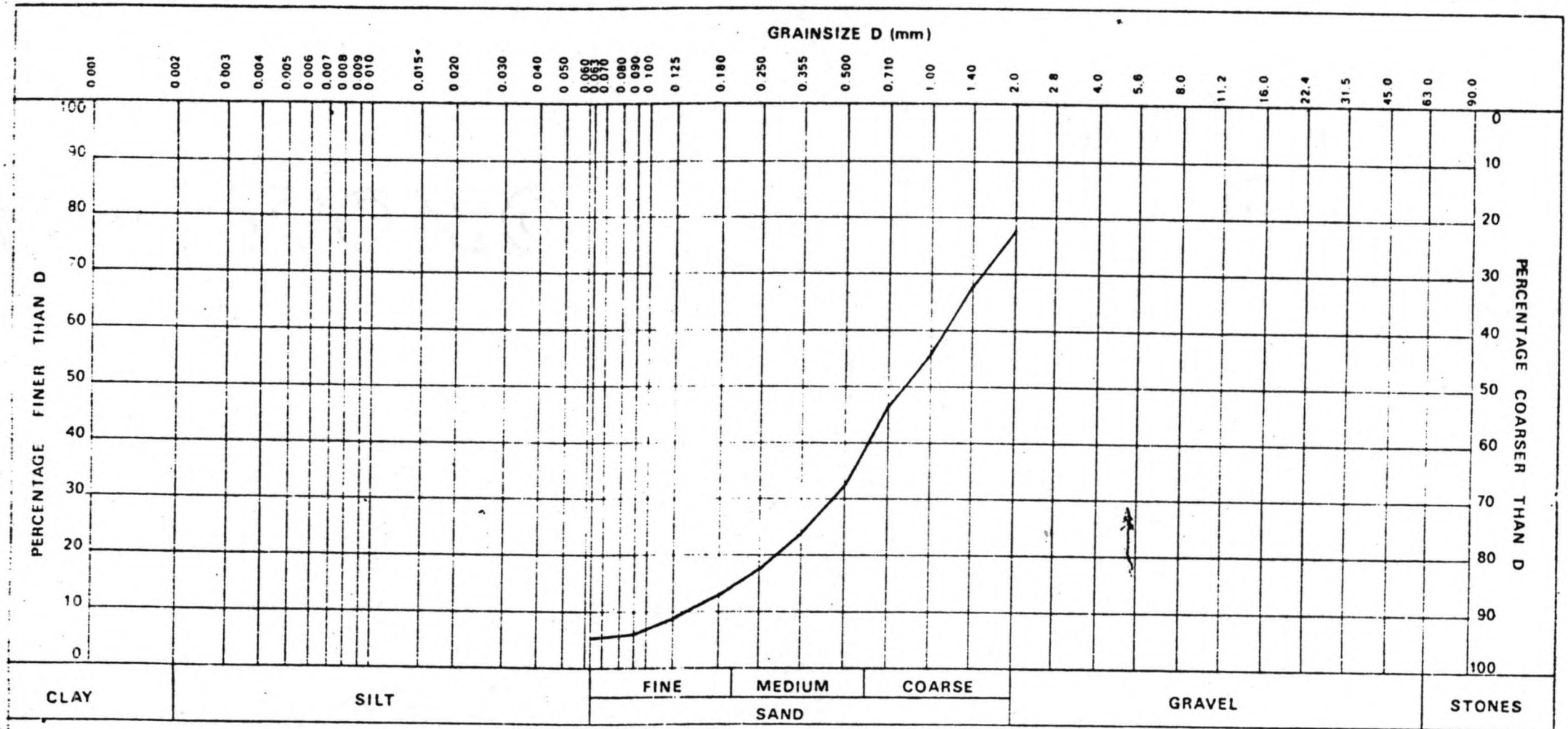
GRAINSIZE DISTRIBUTION CURVES

Mde. 7-1-75 LV

Dr —

Ch

Proj. nr. K-1015-9



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
17		—	sand grey fine, silty, some coarse particles and stones	15.28 m

FUGRO-CESCO

Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

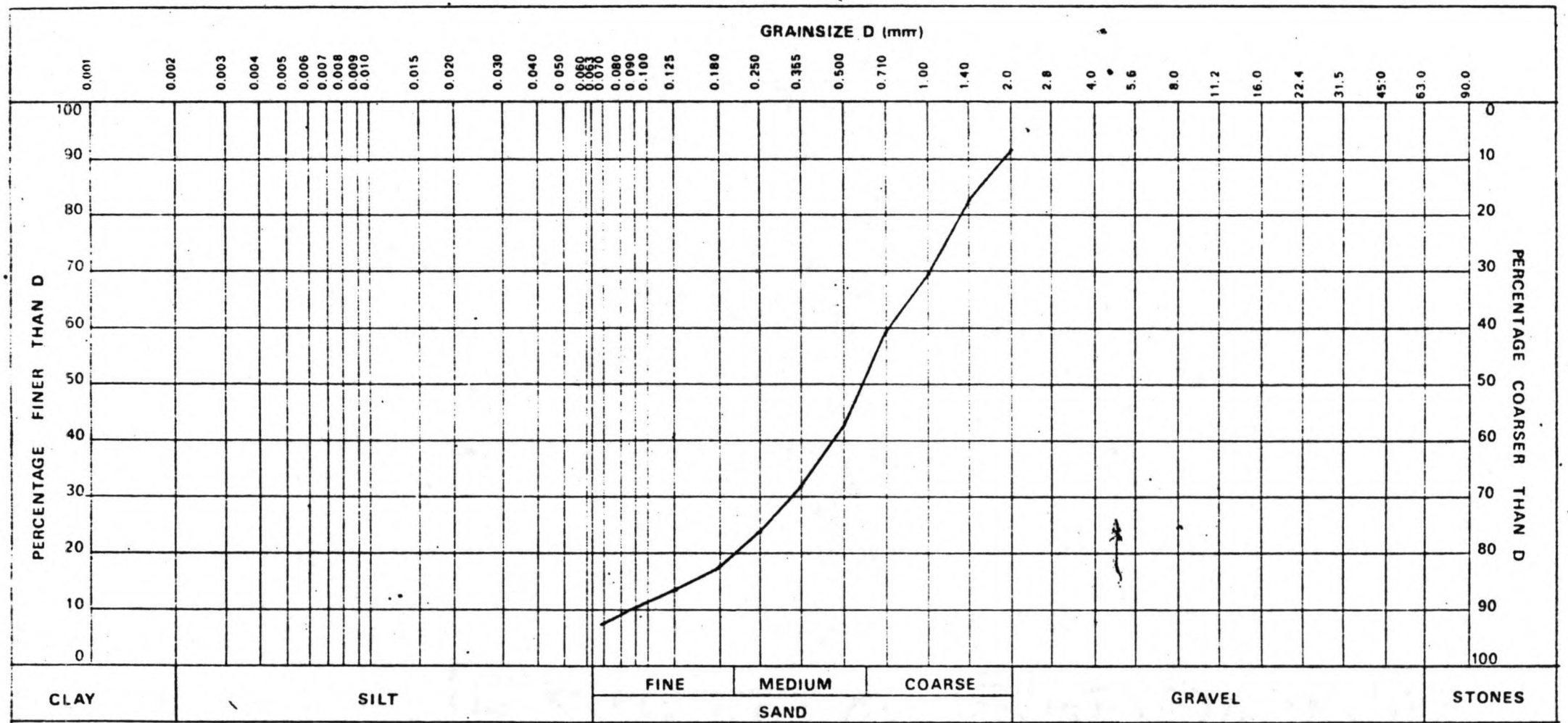
Mde: 7-1-75 LL

Dr:

Ch:

Proj. nr. K-1015 -8

- 110 -



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
19		—	sand grey fine, very silty, little clayey	15.20 m

FUGRO·CESCO

Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

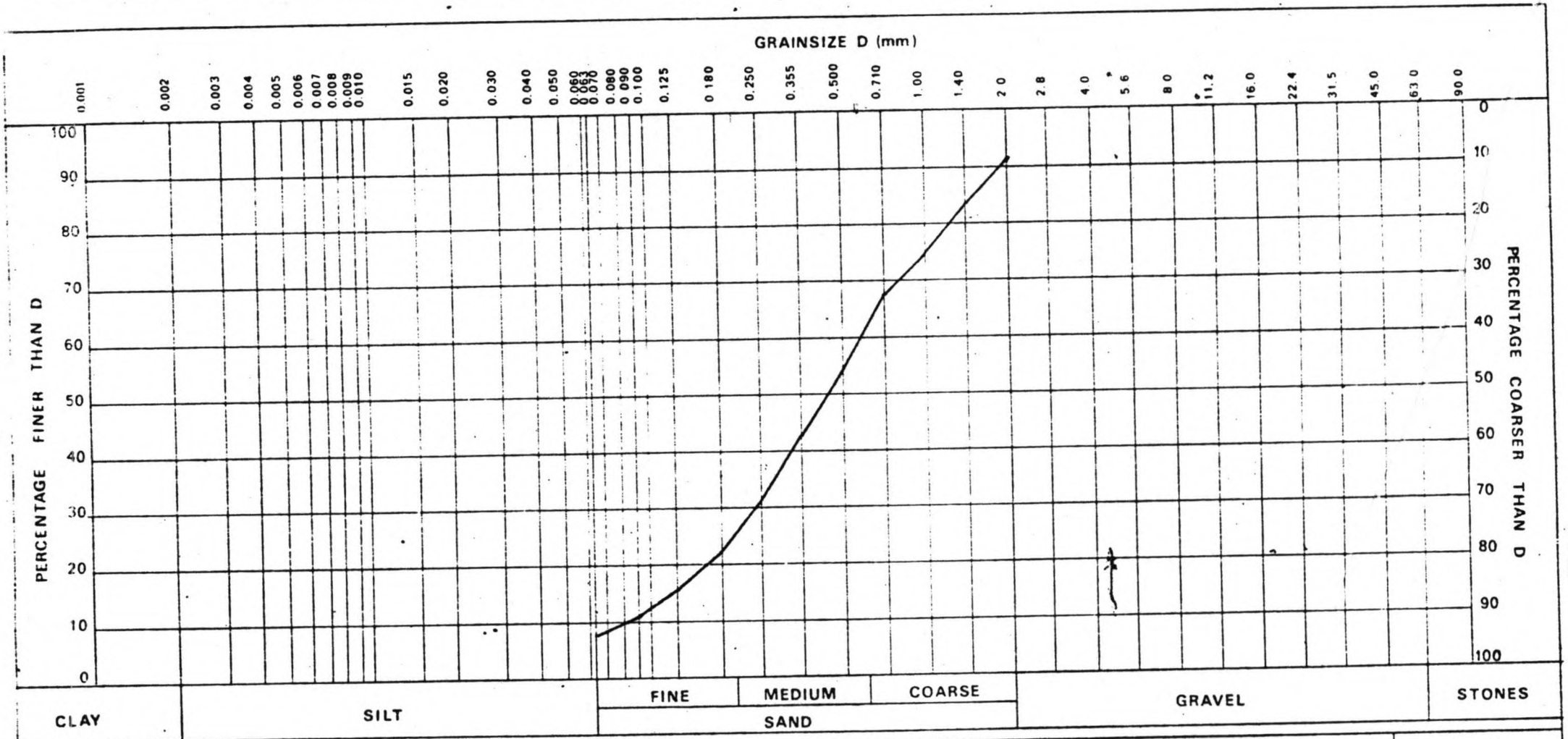
Mde 7-1-76 L.K

Dr

Ch

Proj. nr. K-1015-7

45-974



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
20		—	sand grey fine, some coarse particles.	15.30 m

FUGRO·CESCO

Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

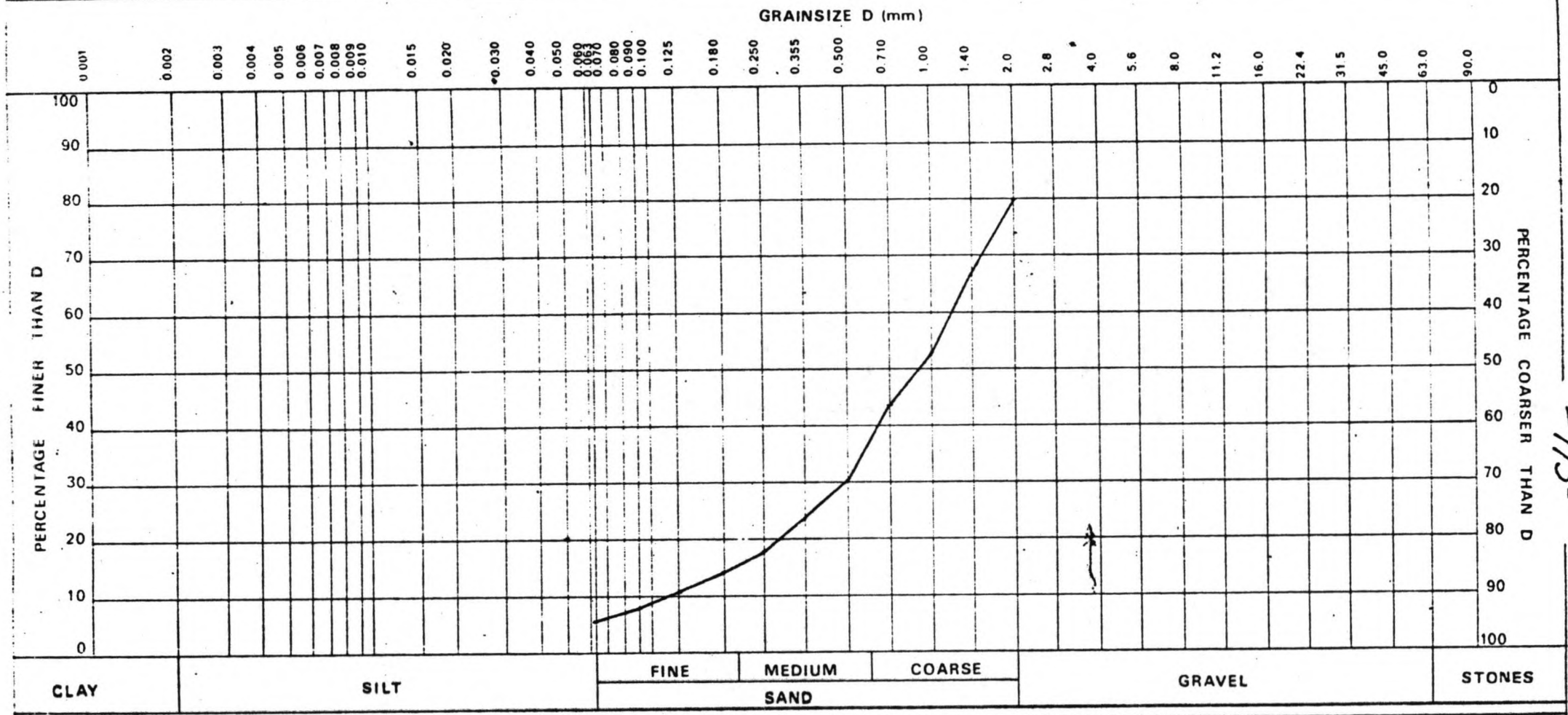
Mde: 7-1-76 LK

Dr:

Ch:

Proj. nr. K-1015-6

45-974



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
21		—	sand grey fine, silty some coarse particles	15.20 m

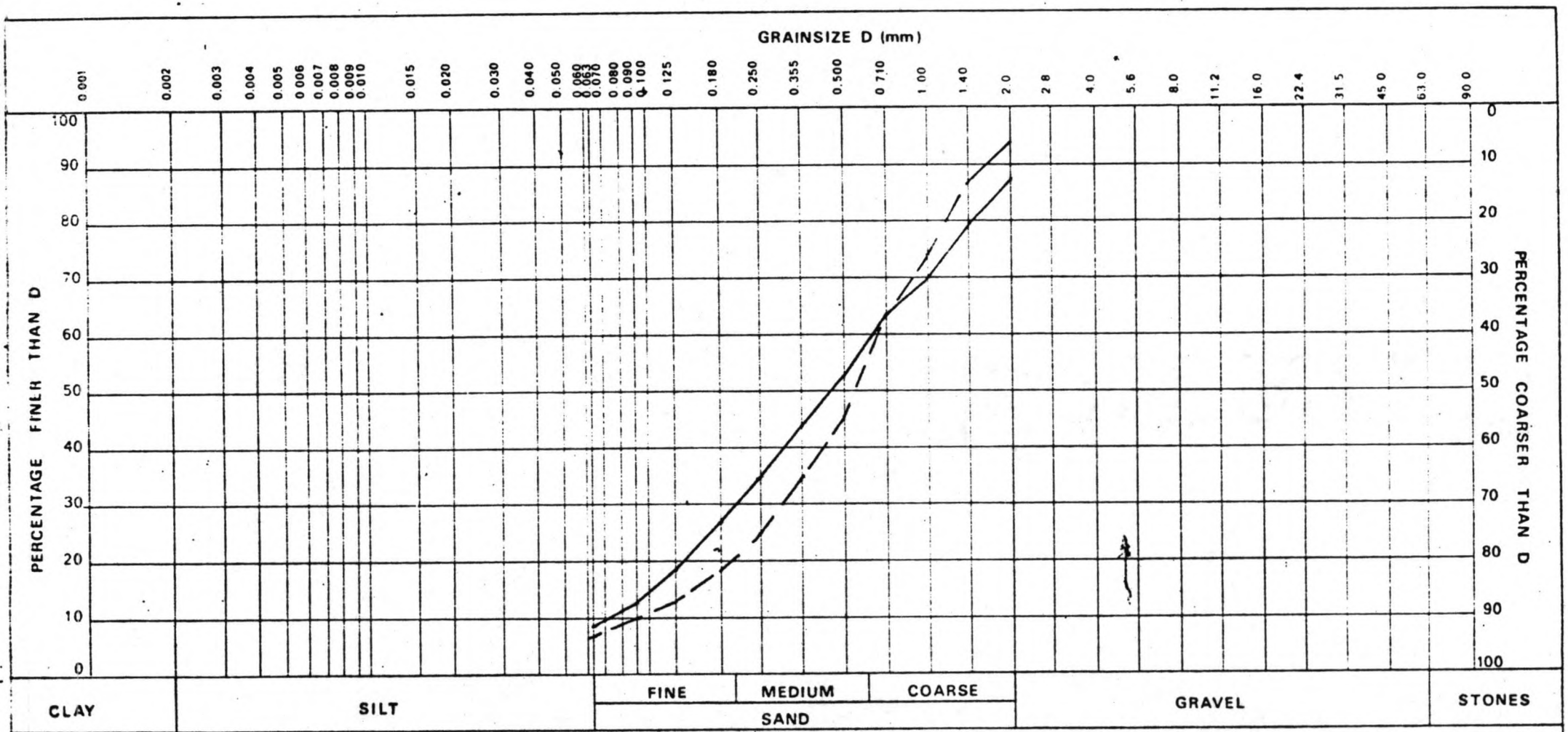
FUGRO•CESCO

Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

Mde	7-1-75	LK	Proj. nr. K-1015 -5
Dr			
Ch			

45-974



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
22		——	sand grey fine, silty, some coarse particles	14,80m
22		– –	sand green grey fine, little silty, few shellfragments	15,40m

FUGRO•CESCO

Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

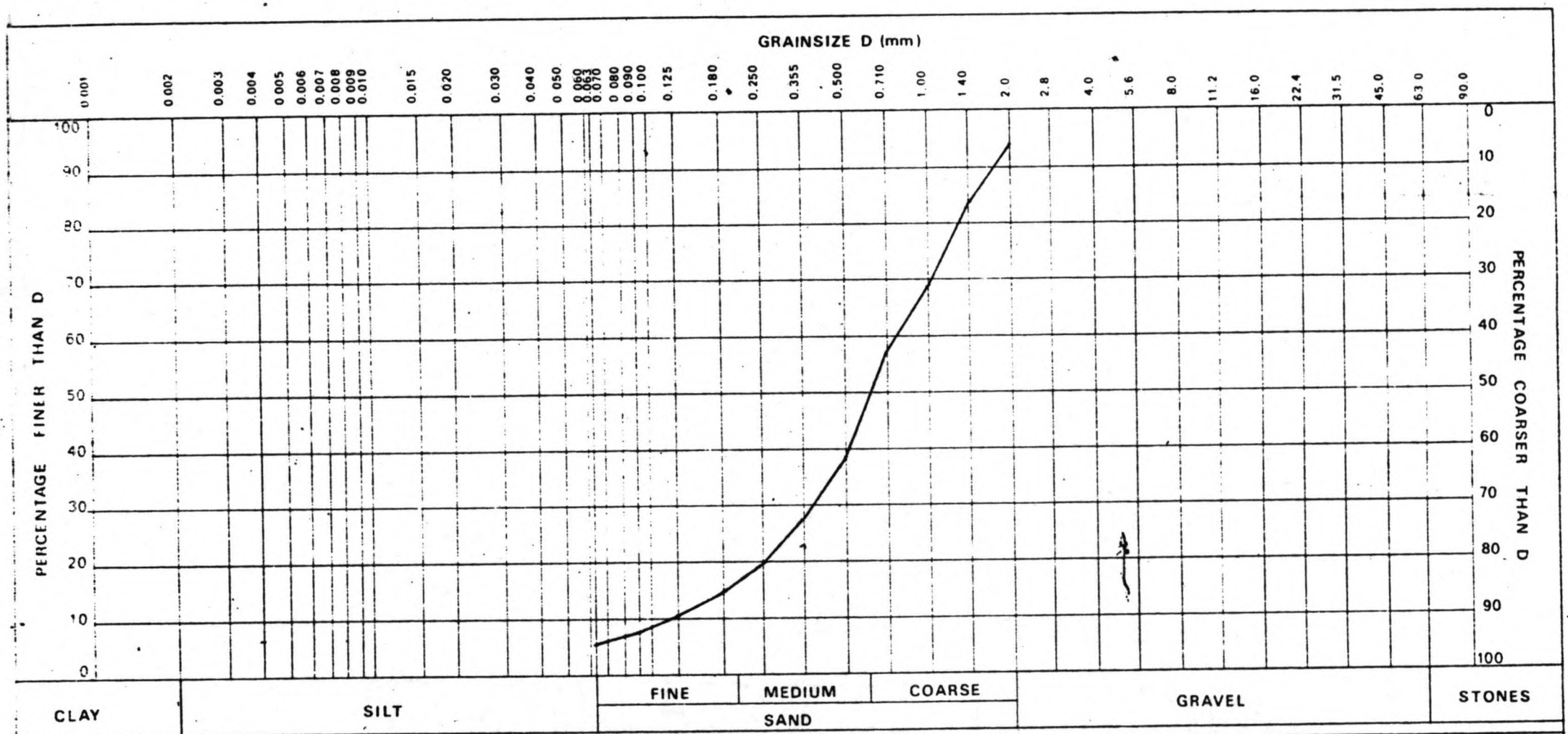
Mde: 7-1-75 | L.L.

Dr :

Ch :

Proj. nr. K-1015 - 4

45-914



BORING	SAMPLE	CURVE	DESCRIPTION OF SOILTYPE	DEPTH
23		—	sand grey fine, silty, some coarse particles and stones	15.30 m

FUGRO-CESCO

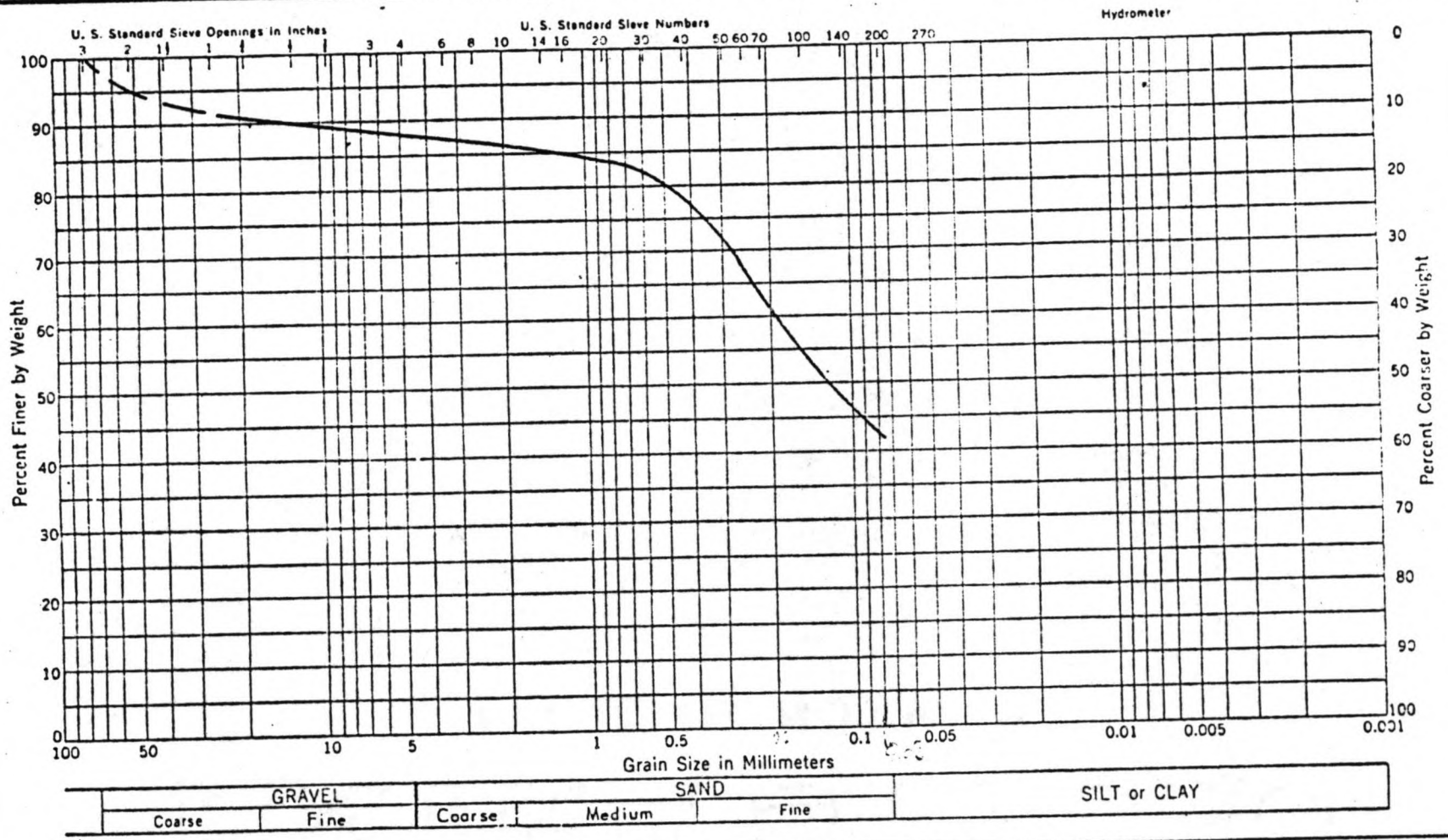
Soil samples from Netherlands Antilles.

GRAINSIZE DISTRIBUTION CURVES

Mde:	7-1-75	l.k.	
Dr :			
Ch :			

Proj. nr. K-1015 - 3

45-914



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-1	41.9	-	-	-	GRAY SANDY SILT - TRACE GRAVEL

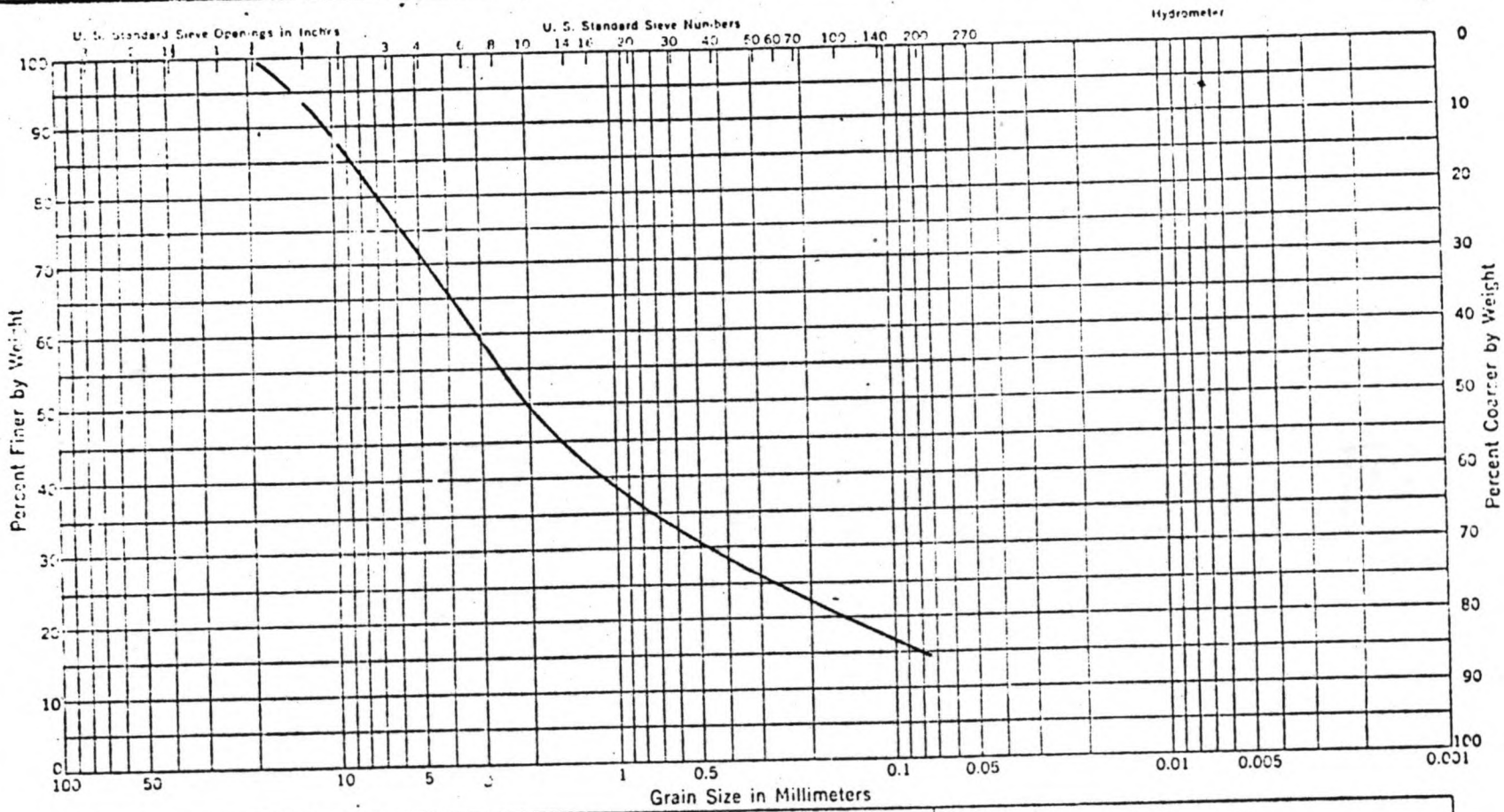
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO: 57 SAMPLE NO: S-1

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-26	13.8	-	-	-	GRAY FINE TO COARSE SAND - SOME GRAVEL

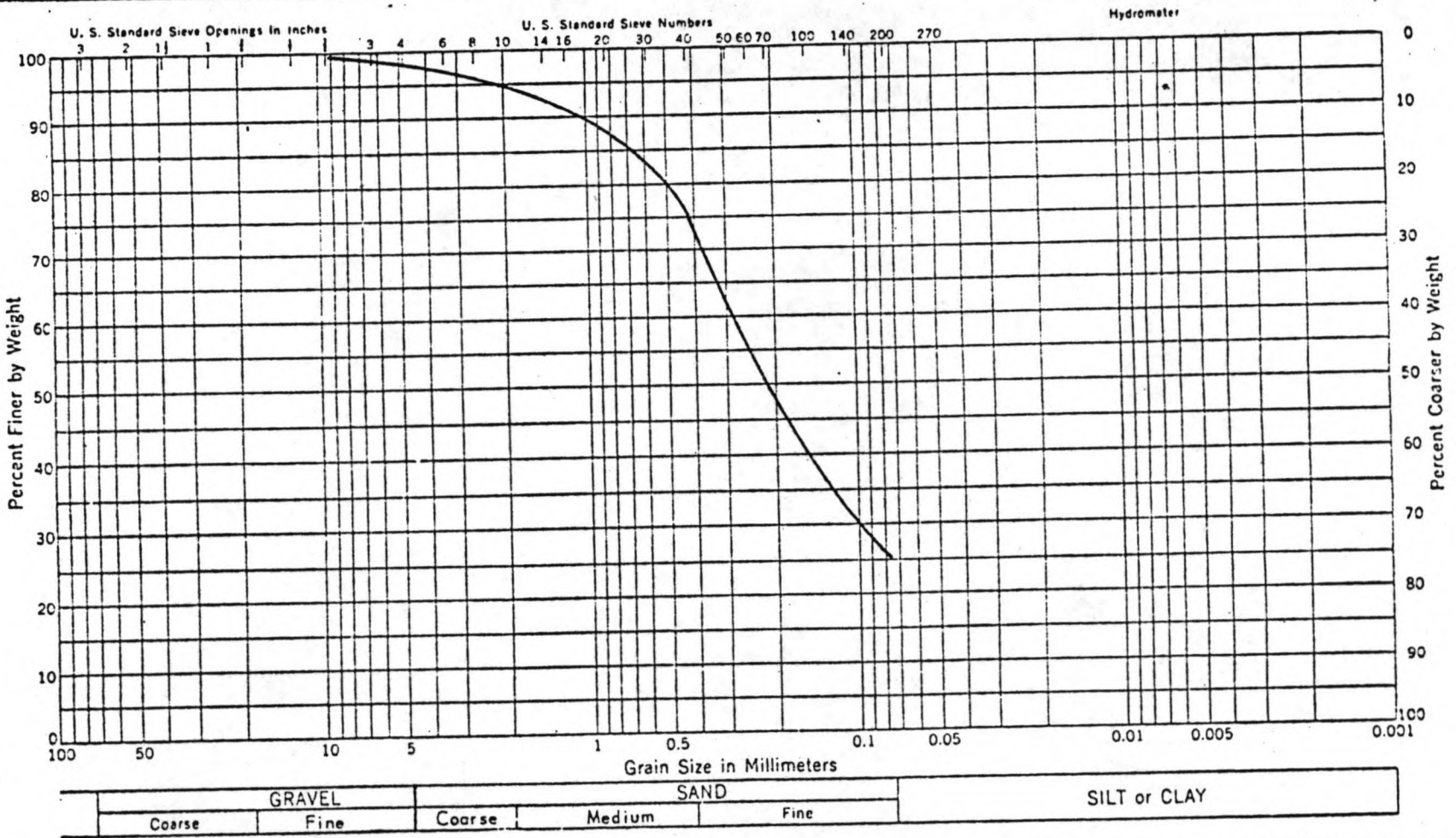
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO 57 SAMPLE NO. S-26

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77550



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-3	27.2	-	-	-	GRAY SILTY FINE TO MEDIUM SAND
					TRACE COARSE SAND

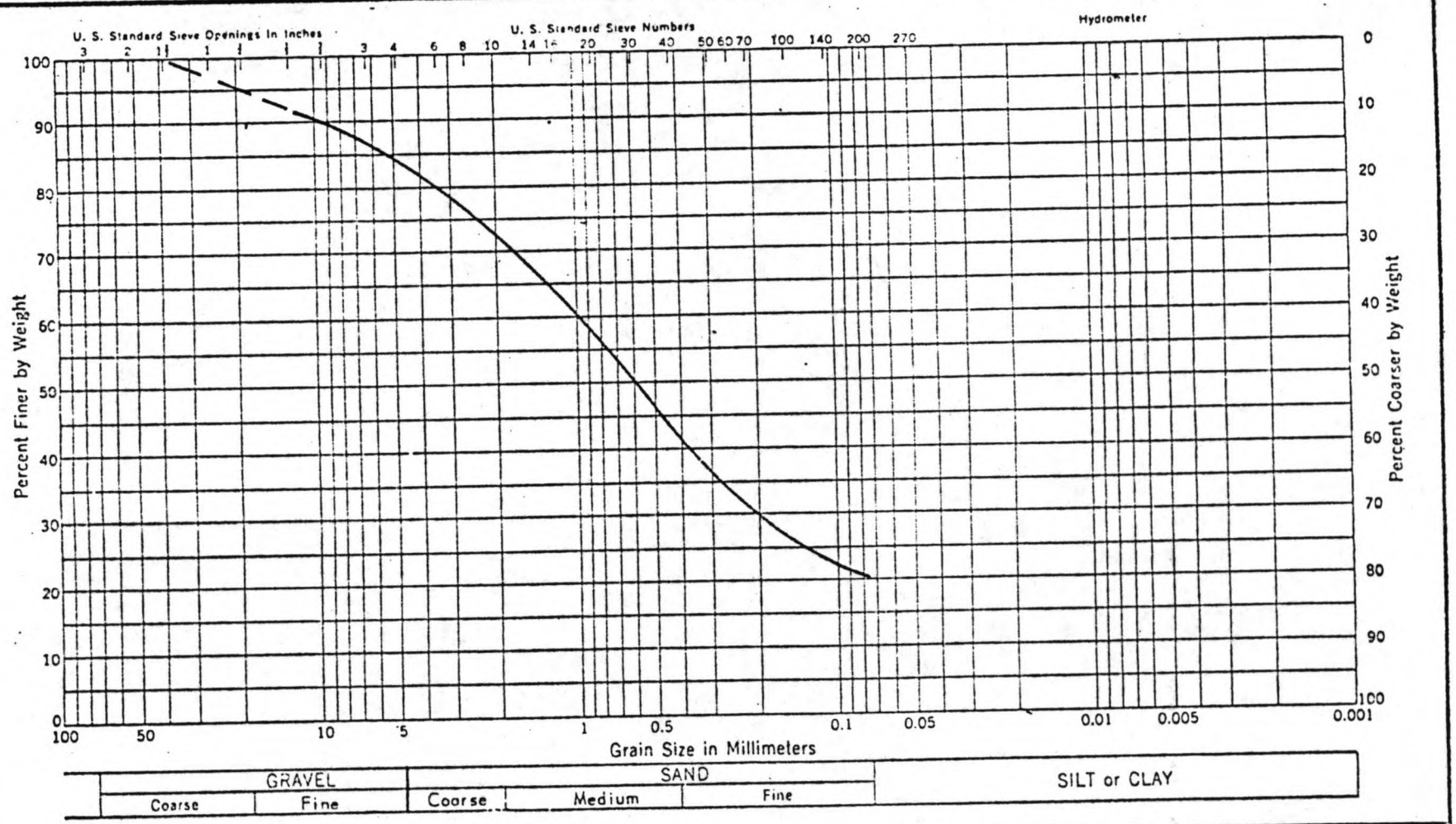
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO 60 SAMPLE NO. S-3

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVI.	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-4	17.6	–	–	–	GRAY FINE TO COARSE SAND - SOME SILT & GRAVEL (DIABASE)

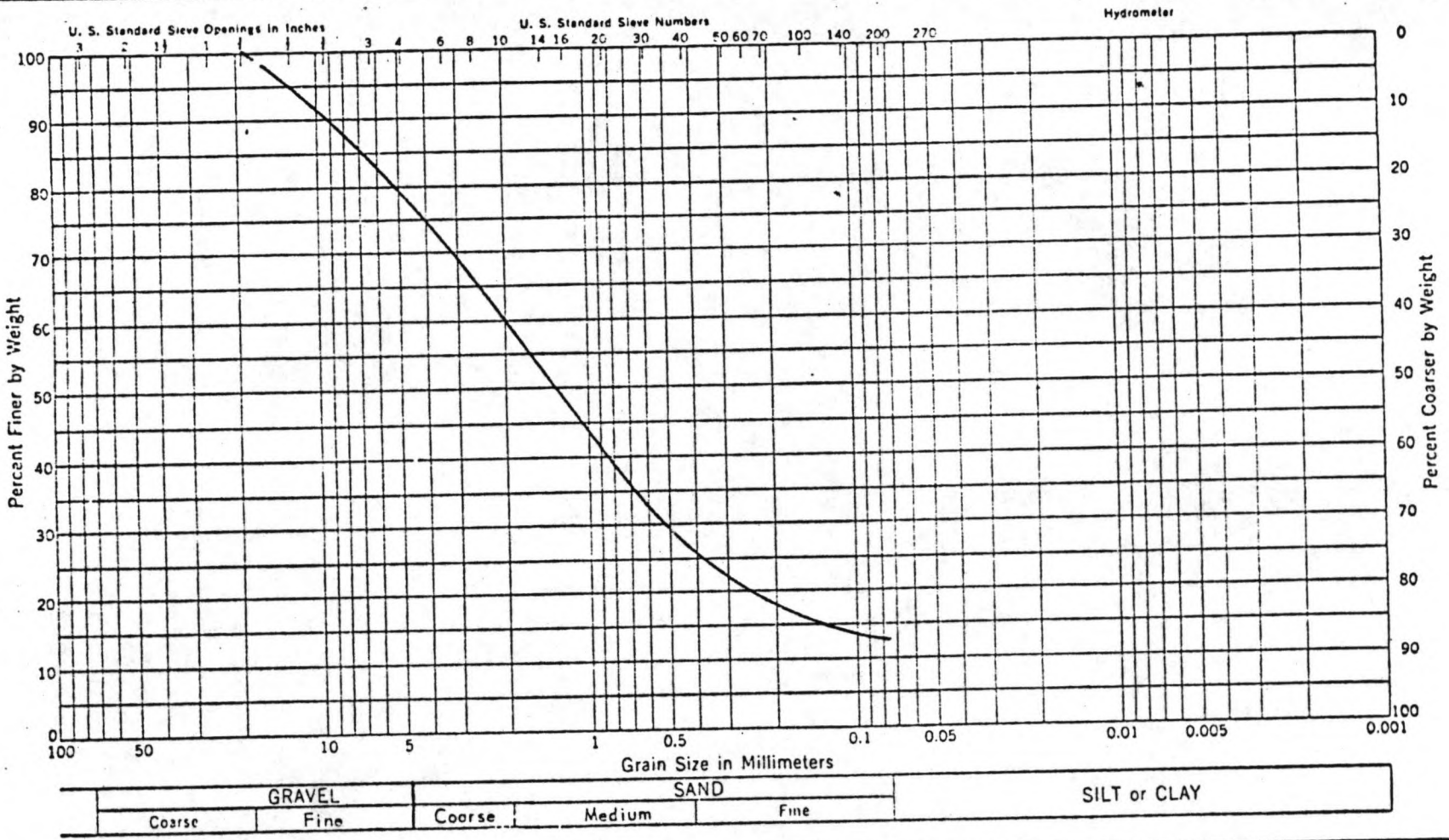
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO. 60 SAMPLE NO. S-4

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-5	11.3	-	-	-	GRAY FINE TO COARSE SAND - SOME GRAVEL - TRACE SILT

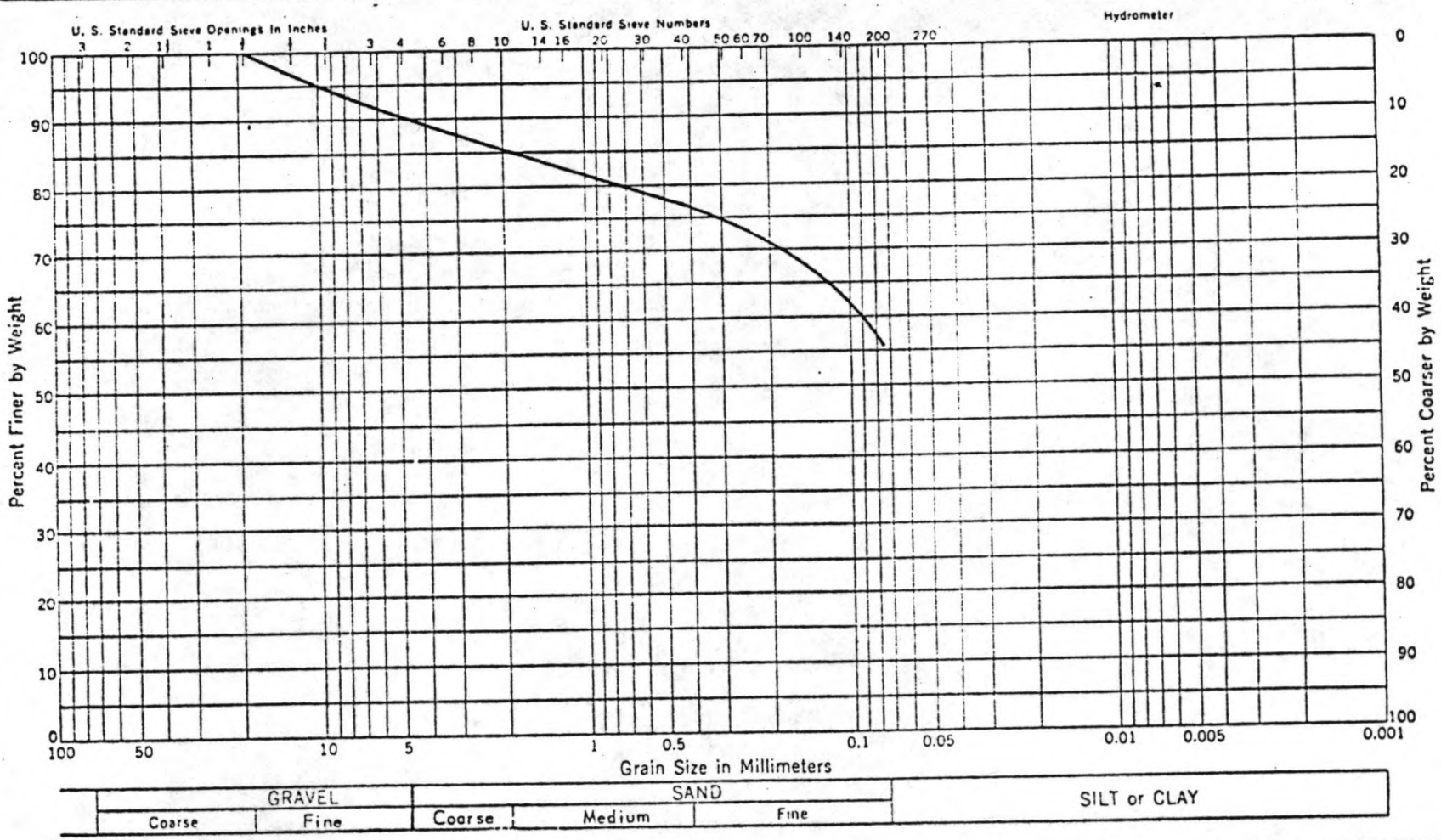
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO. 60 SAMPLE NO. S-5

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-3	35.6	-	-	-	GRAY SANDY SILT - TRACE GRAVEL

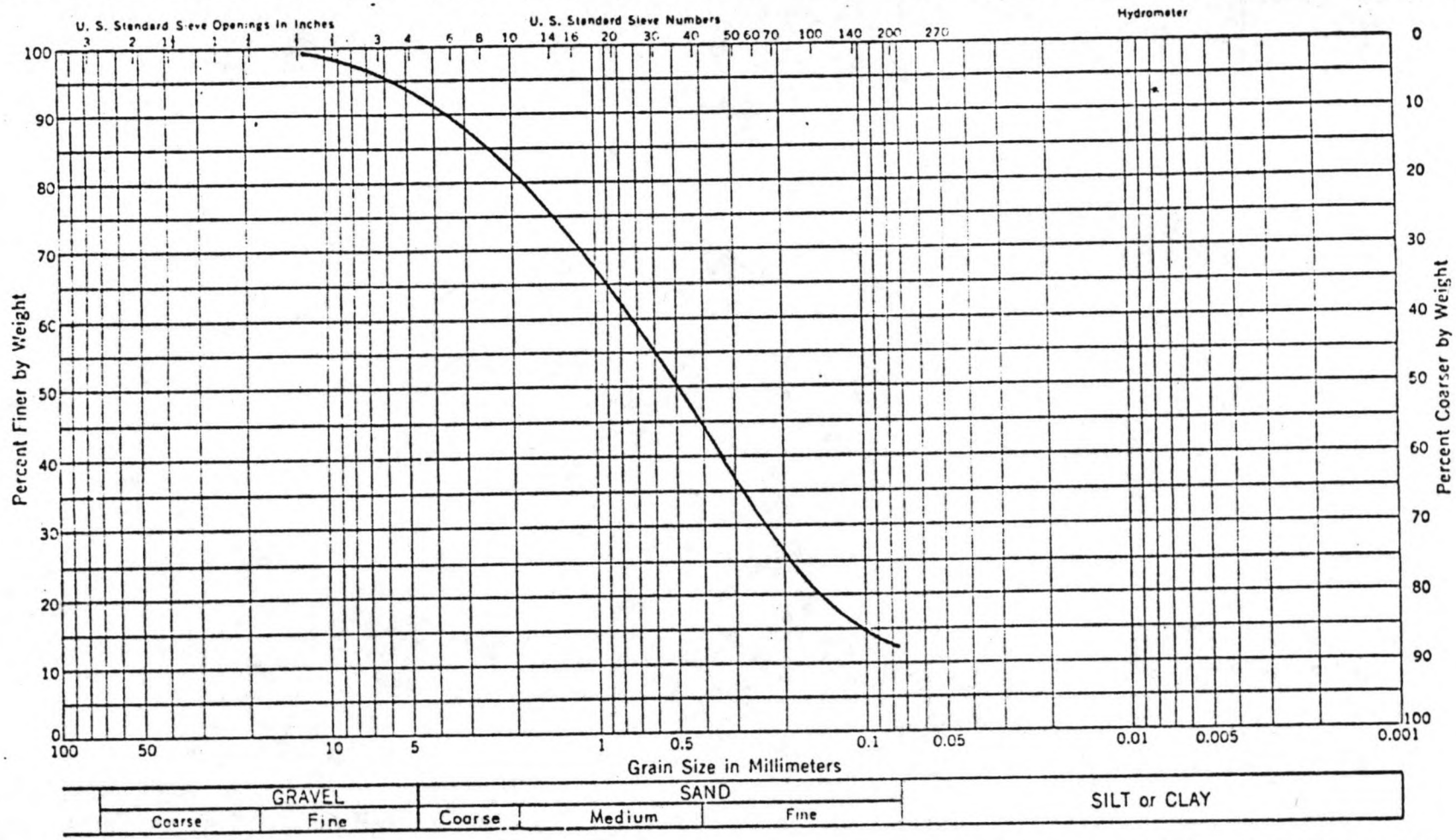
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO. 63 SAMPLE NO. S-3

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-5	22.5	-	-	-	LIGHT GRAY FINE TO COARSE SAND
					TRACE SILT & GRAVEL

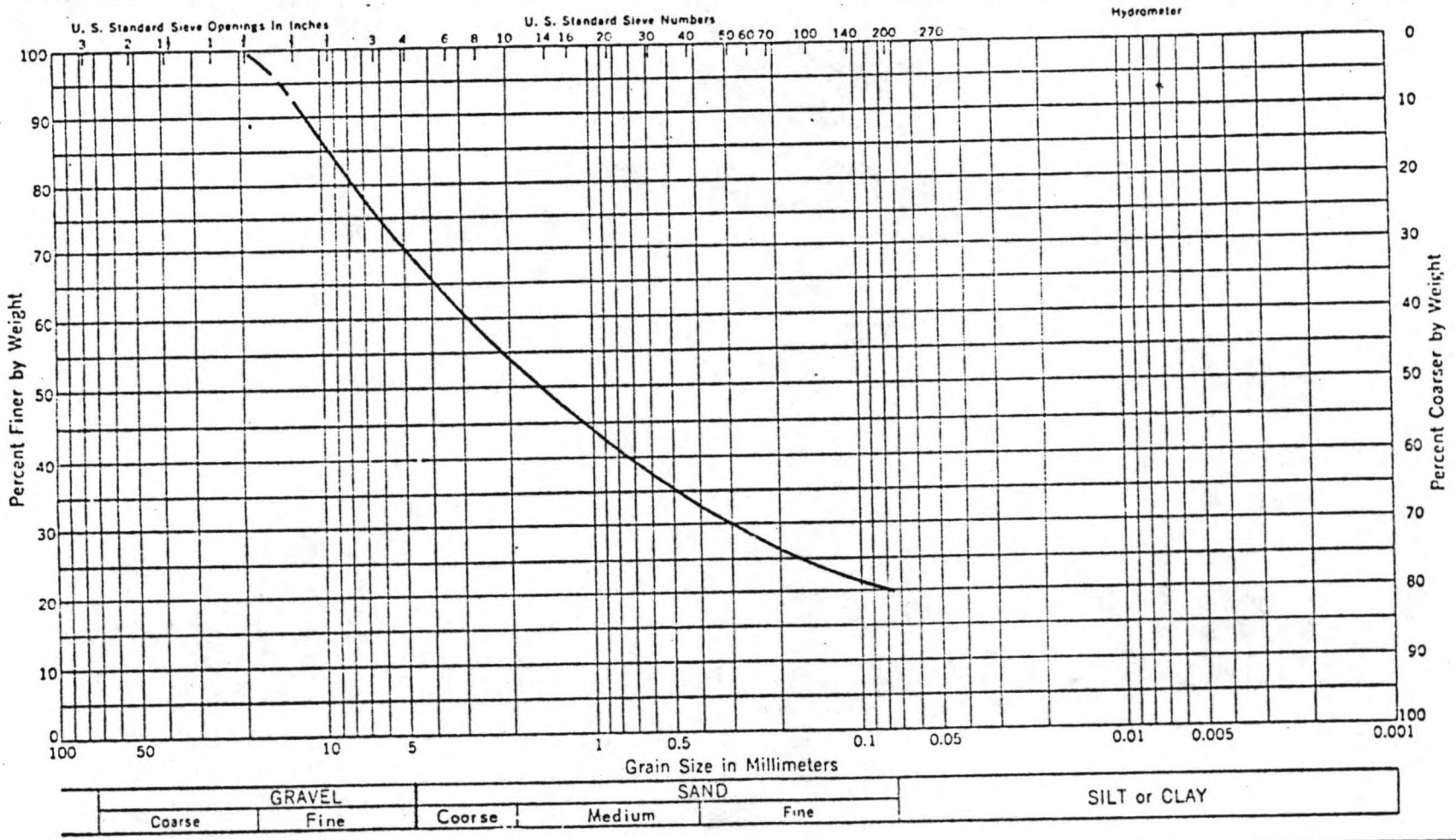
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO. 66 SAMPLE NO. S-5

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-36	16.1	-	-	-	GRAVELLY SAND - SOME SILT, GRAY

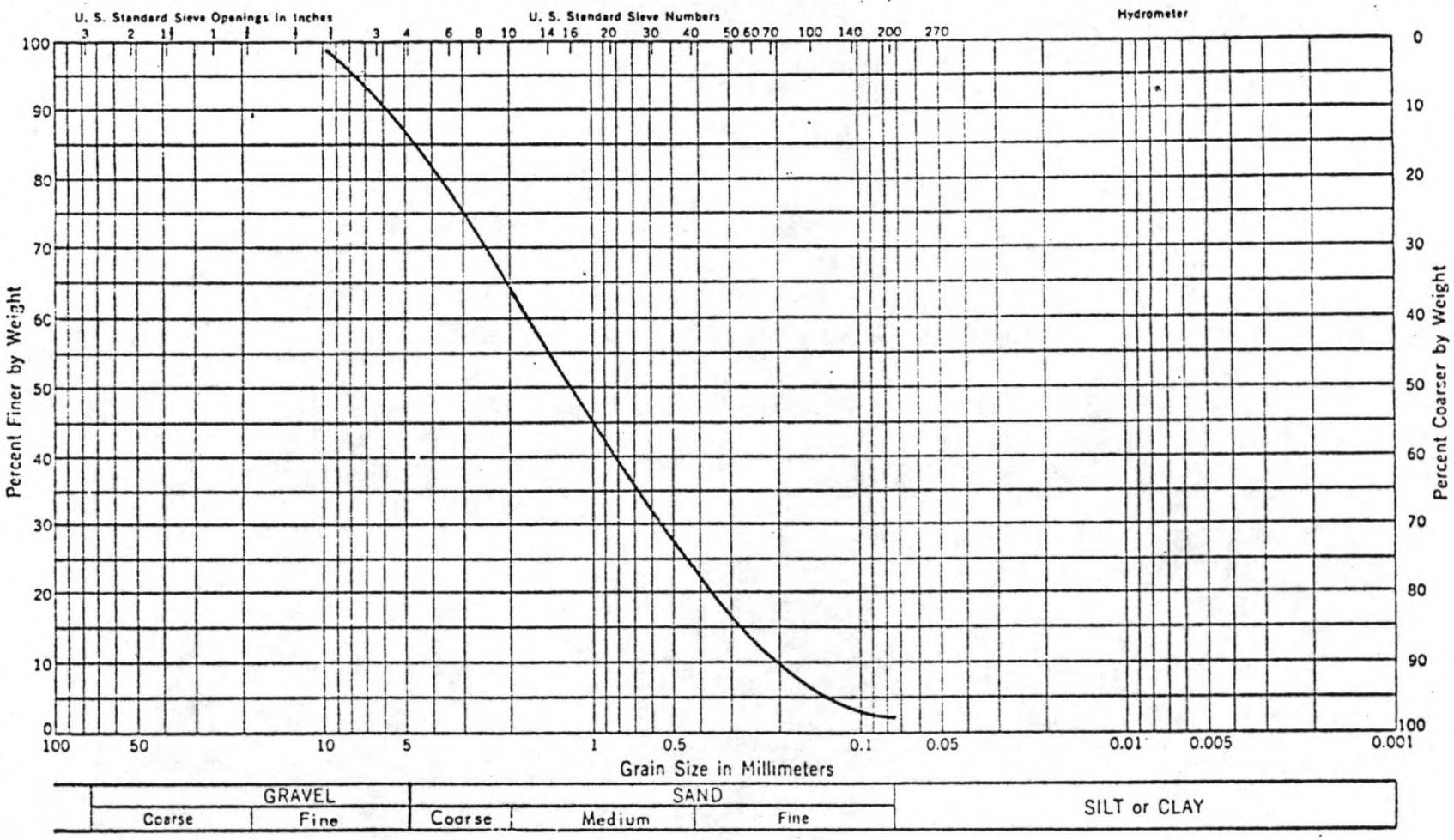
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO. 68 SAMPLE NO. S-36

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-4	12.8	-	-	-	GRAY FINE TO COARSE SAND -
					TRACE GRAVEL

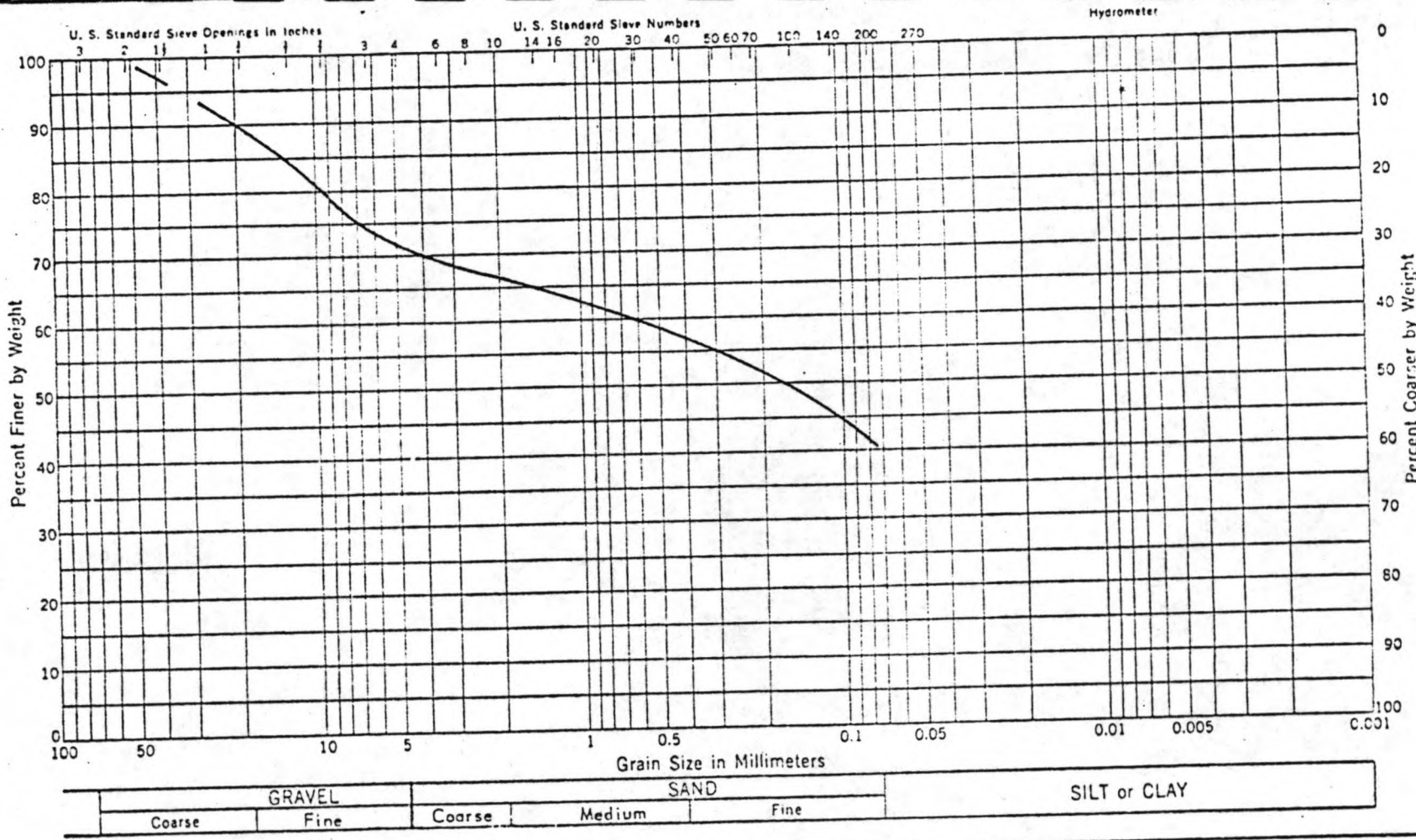
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO. 71 SAMPLE NO. S-4

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-4	40.1	-	-	-	GRAY SANDY SILT - SOME GRAVEL

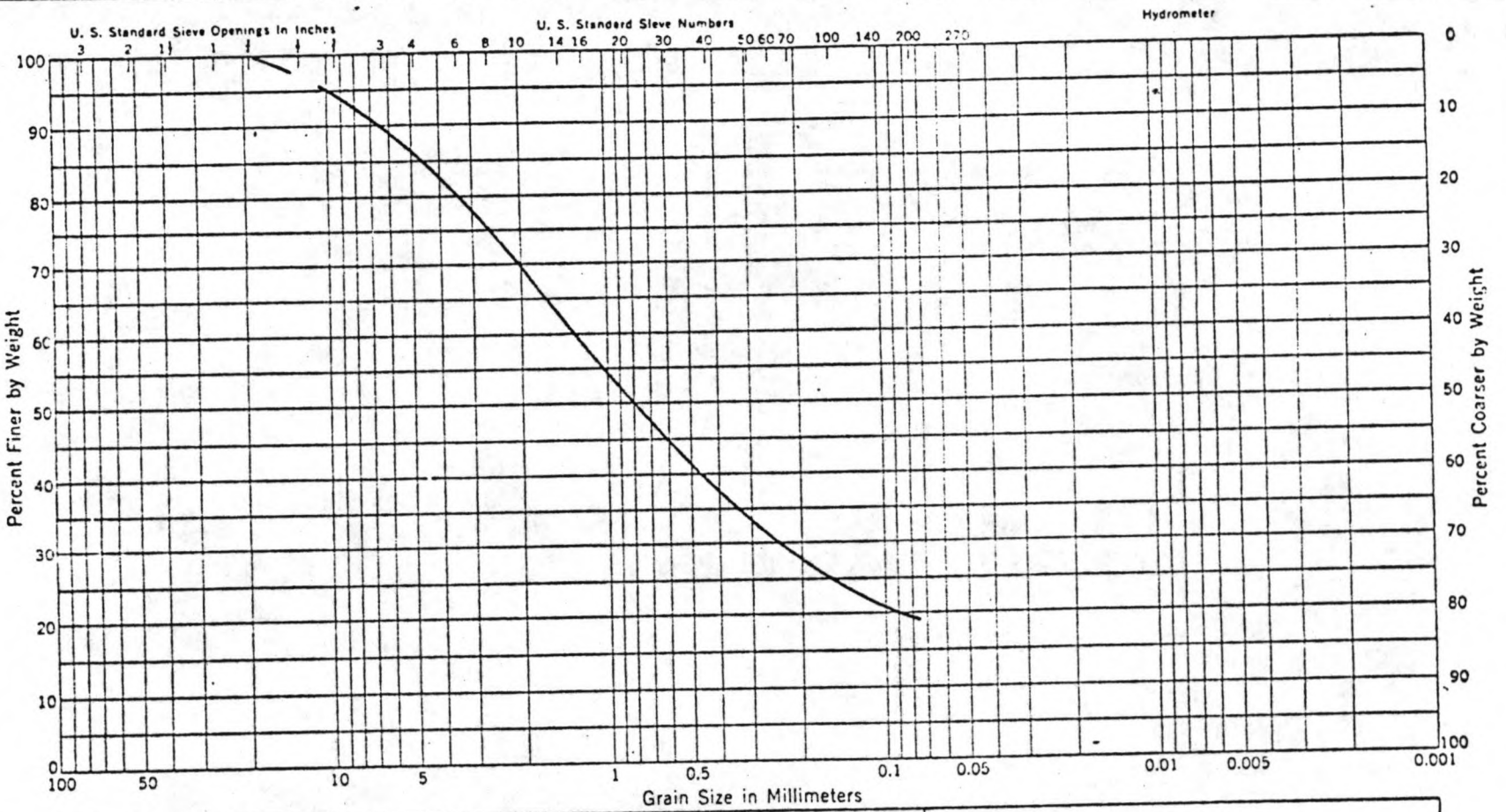
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO 7A SAMPLE NO. S-4

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-5	40.1	-	-	-	GRAY FINE TO COARSE SAND - SOME
					SILT & GRAVEL

PARTICLE SIZE DISTRIBUTION CURVE

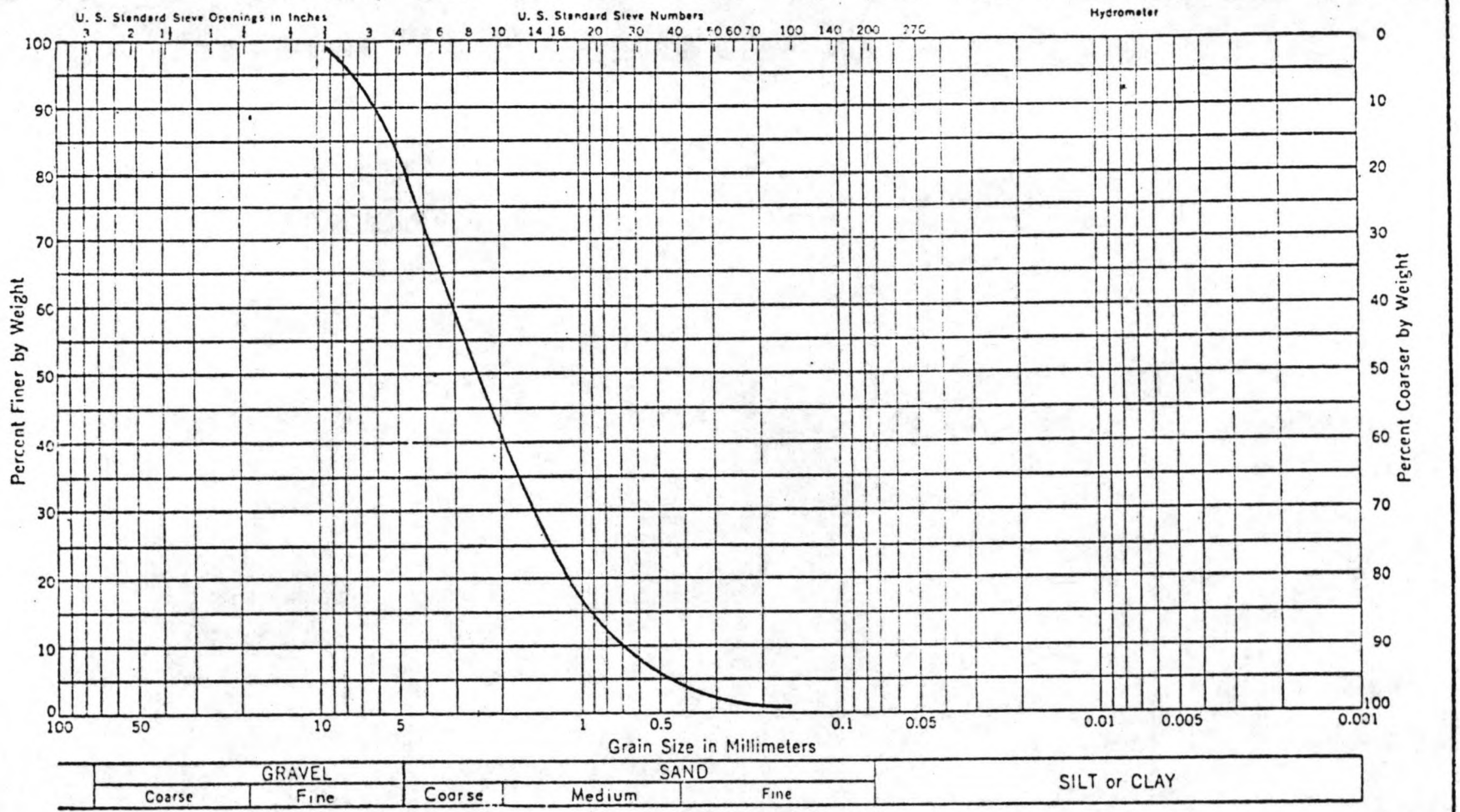
CONTAINER TERMINAL

BORING NO 74 SAMPLE NO. S-5

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77550

-126-



SAMPLE NO.	W.C.	LL	PL	PI	CLASSIFICATION
S-4	4.6	-	-	-	GRAY MEDIUM TO COARSE SAND
					TRACE TO SOME GRAVEL

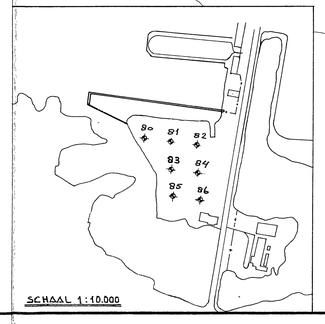
PARTICLE SIZE DISTRIBUTION CURVE

CONTAINER TERMINAL

BORING NO 77 SAMPLE NO. S-4

CARIBBEAN SOIL ENGINEERS, INC.
SOIL AND FOUNDATION CONSULTANTS

DRAWN	APPROVED	DATE	JOB No.
GVL	JMC	4/26/78	77530



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GEPROJECTEERDE KADEMUUR

VERKLARING

- SLAGSONDERING MET MONSTERNAME
- SLAG. SONDERING (S.P.T.)

OPENBARE WERKEN CURAÇAO

AFD.	No	BLAD.
O.P.	78-02 78-03 78-0203	

WERK: CONTAINERHAVEN

ONDERDEEL:
BAGGERWERKEN C.A.
KADEMUURCONSTRUCTIE C.A.
OVERZICHT GRONDONDERZOEK

SCHAAL: 1:1000

DAT.	TEK.	CONTR.	GEZ	REV.
25.7.78	WB			

30x97