

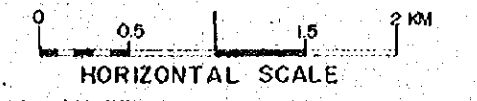
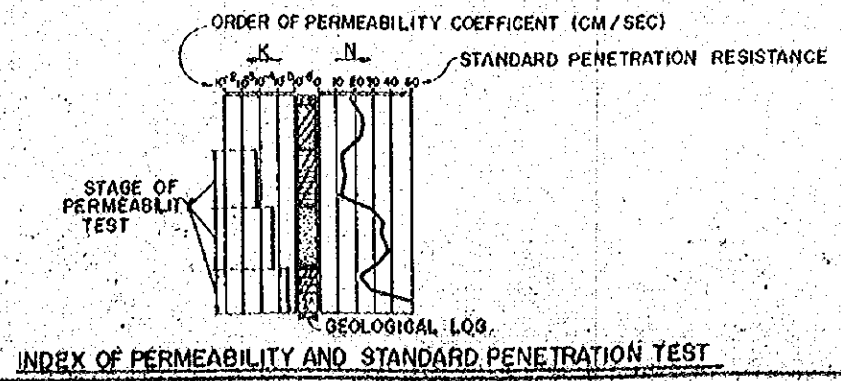


LEGEND

 LOAM OR CLAY SOIL
 SAND



OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN

STUNG CHINIT MULTI-PURPOSE PROJECT

POLDER DIKE SITE

GENERAL GEOLOGICAL PROFILE

SUBMITTED *slw* DATE JULY, 1969

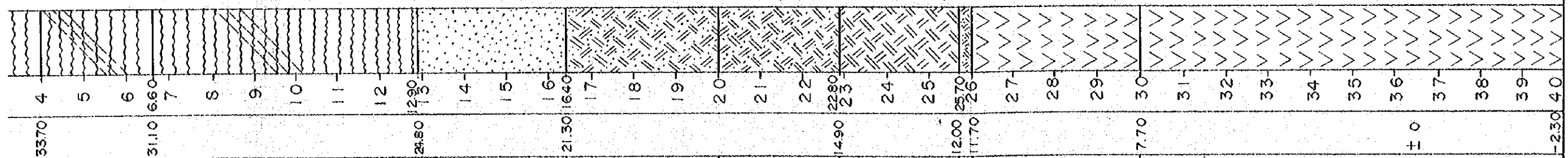
APPROVED *Yosh. Kawai* DRAWING NO. 1019

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF BORE HOLE
 STUNG CHINIT MULTIPURPOSE PROJECT

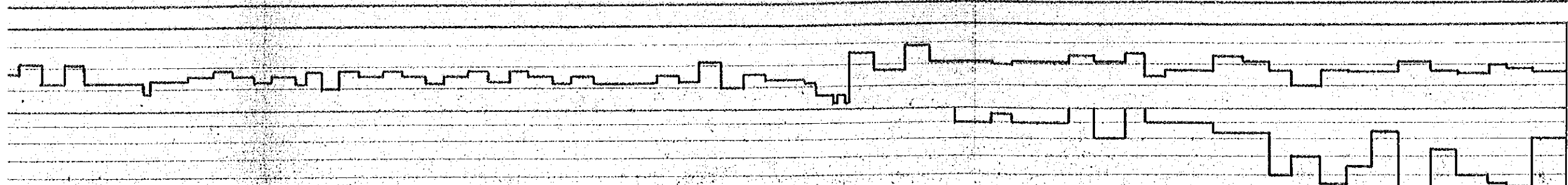
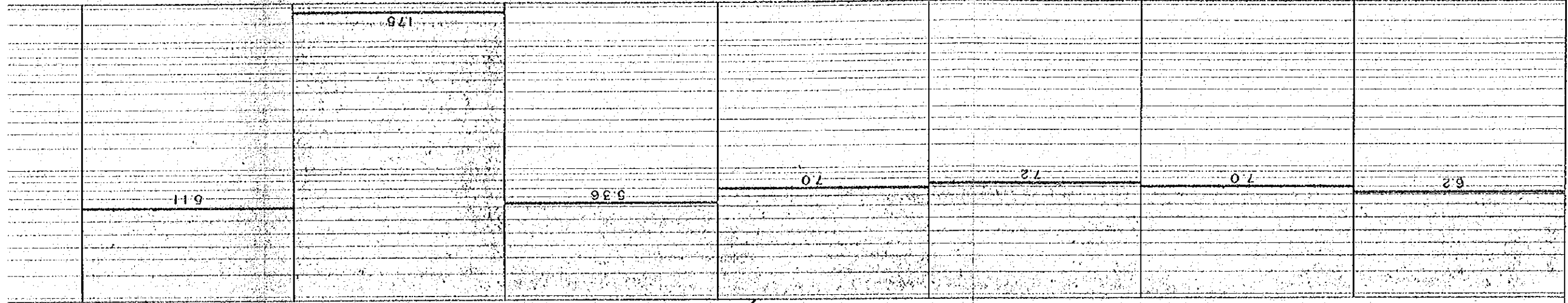
BORE HOLE NO	SITE	BANGK: TANGREN DAM			LOCATION		LEFT BANK		
		GROUND ELEVATION	HOLE ANGLE FROM VERTICAL	BORING MACHINE	KOKEN OP-1	BEGUN	14 MAR 1969	ENGINEER	
B-1	HOLE DEPTH	37.70 m	0°	PUMP	YAMATO DP-5	FINISHED	27 MAR 1969	SITE MANAGER	
	HOLE DIAMETER	40.00 m	METAL CROWN	ENGINE	YANMAR F-9	TOTAL DAYS REQUIRED	14	FOREMAN	
		86 ~ 65 mm	DEPTH TO WATER TABLE	GL-12.50 m					
CLASSIFICATION PHYSICAL CONDITION AND NOTES		ELEVATION	DEPTH	LOG	SAMPLE NO	STANDARD RESISTANCE	PERMEABILITY K (cm ² /sec)	CORE RECOVERY (%)	DRILLING SPEED (M/HOUR)
SANDY LOAM. YELLOWISH BROWN INCLUDING SOME GRAVELS PARTLY INCLUDING SILTY LOAM. LATERITIZATION TOP SOIL		3370	1		49 13 1520				
SANDY LOAM BROWN OR DARK BROWN HIGHLY COMPACTED INCLUDING FINE ROUNDED OR SUBROUNDED GRAVELS		3110	2		49 15 1618				
SANDY LOAM YELLOWISH BROWN OR REDDISH BROWN WEAKLY COMPACTED BEING ALIKE COMPLETELY WEATHERED ROCK SUCH AS TUFF.			3		52 13 1821				
			4		46 16 1515				
			5		51 16 1718				
			6		52 18 1915				
			7		22 7 7.8				
			8		19 6 6.7				
			9		18 6 7.5				
			10		17 5 6.6				
			11		18 6 6.6				
			12		19 7 6.6				
		2480	13		23 7 7.9				
SAND GREYISH BROWN INCLUDING SILTY PARTICLES. POORLY GRADED. BEING ALIKE COMPLETELY WEATHERED ROCK SUCH AS SANDY TUFF.			14		27 7 9.11				
			15		21 7 6.8				
			16		23 7 7.9				
SANDY TUFF PALE BROWN AND GREY. VERY WEATHERED. 18.0 ~ 21.0 PERMEABLE.		2130	17		36 9 1314				
			18		41 11 1515				
			19		35 10 1312				
			20		46 15 1516				
SANDY TUFF PALE BROWN OR GREY BROWN. WEATHERED.			21		53 18 2020				
			22		60 18 1624				
		1490	23		N.P.				
TUFF MILKY GREY OR MILKY WHITE WEATHERED.			24						
			25						
SANDY TUFF BROWN OR MILKY BROWN INCLUDING VERY COARSE SAND.		1200	26						
		1170	27						
PORPHYRITE GREENISH GREY WEATHERED ALONG THE CRACK SURFACE			28						
			29						

2014

52	11	18	21
46	16	15	15
51	16	17	18
52	18	19	15
22	7	7	8
19	6	6	7
18	6	7	5
17	5	6	6
18	6	6	6
19	7	6	6
23	7	7	9
27	7	9	11
21	7	6	8
23	7	7	9
36	9	13	14
41	11	15	15
35	10	13	12
46	15	15	16
53	18	20	20
60	18	18	24
N.P.			



3370	4	SANDY LOAM BROWN OR DARK BROWN HIGHLY COMPACTED INCLUDING FINE ROUNDED OR SUBROUNDED GRAVELS
3110	660	
	7	
	8	SANDY LOAM YELLOWISH BROWN OR REDDISH BROWN WEAKLY COMPACTED. BEING ALIKE COMPLETELY WEATHERED ROCK SUCH AS TUFF.
	9	
	10	
	11	
	12	
2450	13	SAND GREYISH BROWN INCLUDING SILTY PARTICLES. POORLY GRADED. BEING ALIKE COMPLETELY WEATHERED ROCK SUCH AS SANDY TUFF.
	14	
	15	
	16	
2130	1640	
	17	SANDY TUFF PALE BROWN AND GREY VERY WEATHERED. 18.0 ~ 21.0 PERMEABLE.
	18	
	19	
	20	
	21	SANDY TUFF PALE BROWN OR GREY BROWN. WEATHERED.
	22	
1490	2280	
	23	TUFF MILKY GREY OR MILKY WHITE WEATHERED.
	24	
	25	
1200	2570	
1170	26	SANDY TUFF BROWN OR MILKY BROWN INCLUDING VERY COARSE SAND.
	27	
	28	PORPHYRITE GREENISH GREY WEATHERED ALONG THE CRACK SURFACE SUB-CRISTALLIN
	29	
	30	
770		
	31	
	32	PORPHYRITE GREENISH GREY OR PALE GREENISH GREY
	33	
	34	SUB CRISTALLIN WEATHERED ALONG THE CRACK SURFACE 30.0 ~ 31.8 VERY WEATHERED ZONE ALMOST DECOMPOSED TO CLAY.
	35	
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-230		



OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF BORE HOLE
 STUNG CHINIT MULTIPURPOSE PROJECT

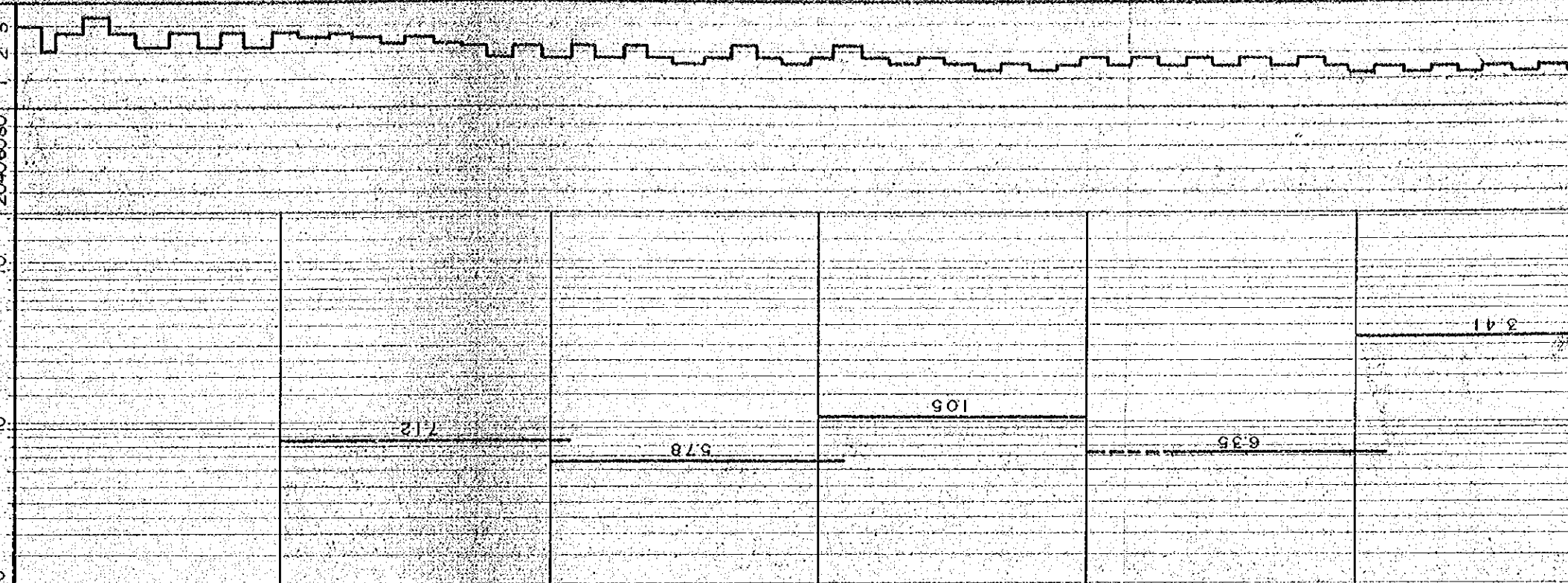
BORE HOLE NO	SITE	BANGKI TANGREN DAM	LOCATION	LEFT BANK		
B-2	GROUND ELEVATION	22.59 m	KOKEN OP-1	MAR 1969		
	HOLE DEPTH	20.00 m	YAMATO DP-5	FINISHED 13 MAR 1969		
	HOLE DIAMETER	86 ~ 65 mm	YANMAR F-9	FOREMAN <i>S. Sato</i>		
HOLE ANGLE FROM VERTICAL		0°	BORING MACHINE	PUMP ENGINE		
KIND OF BIT		METAL CROWN	ENGINE	TOTAL DAYS REQUIRED		
DEPTH TO WATER TABLE		GL - 173 m		8		
ELEVATION						
DEPTH						
CLASSIFICATION AND NOTES		PERMEABILITY				
<p>SILTY CLAY BROWNISH GREY DRIED UP HIGHLY PLASTIC.</p> <p>SILTY SAND YELLOWISH BROWN GENERALLY COARSE SAND BUT POORLY GRADED.</p> <p>CLAY SILT GREY AND BROWN INCLUDING COALED WOODS AND LEAVES.</p> <p>SANDY SILT MILKY GREY HIGHLY MOISTENED OR SATURATED. PART OF LOWER THAN 6.70 m INCLUDING FINE GRAVELS.</p> <p>SANDY LOAM REDDISH BROWN INCLUDING QUARTZ GRAINS AND FINE GRAVELS.</p> <p style="text-align: center;">^M 15.0 ~ 17.0 INCLUDING MUCH QUARTZ GRAINS.</p>		STANDARD PENETRATION RESISTANCE N				
		K (cm/sec)				
		ELEVATION		PERMEABILITY		
		DEPTH		K (cm/sec)		
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DEPTH						

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN

GEOLOGICAL LOG OF BORE HOLE

STUNG CHINIT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	PHNOM TAKHODAM		LOCATION	LEFT	BANK		
B-4	GROUND ELEVATION	39.44 m	HOLE ANGLE FROM VERTICAL	0°	DRILLING MACHINE	KOKEN OP-1	BEGUN 25 APR 1969	ENGINEER <i>Yoshi Kawai</i>
	HOLE DEPTH	30.00 m	KIND OF BIT	METAL CROWN	PUMP	YAMATO DP-5	FINISHED 3 MAY 1969	SITE MANAGER <i>[Signature]</i>
	HOLE DIAMETER	86~65 mm	DEPTH TO WATER TABLE	6 L-19.10 m	ENGINE	YANMAR F-9	TOTAL DAYS REQUIRED 9	FOREMAN <i>Kamekida</i>
CLASSIFICATION AND NOTES		ELEVATION	DEPTH	SAMPLE NO	STANDARD PENETRATION RESISTANCE N	PERMEABILITY K (cm/sec)	CORE RECOVERY (%)	DRILLING SPEED (M/HOUR)
TOP SOIL BROWN		39.14	0.30				20.0	1
CLAY LOAM BROWN HIGHLY PLASTIC INCLUDING NO GRAVEL.		37.74	1.70				20.0	2
SANDY LOAM BROWN OR GREYISH BROWN.							20.0	3
GREYISH UPPER LAYER BEING ALIKE DECOMPOSED LATERITE.							20.0	4
EXTREMELY COMPACTED, INCLUDING FEW COALED WOODS AND SOME RESIDUAL IRON-CRUSTS IN LOWER PART.							20.0	5
LATERITE GREYISH BROWN BEING ALIKE PORPHYRITE RATHER HARD.		23.84	5.60				20.0	16
SAND MILKY GREY HIGHLY MOISTENED, RATHER CONCRETED, INCLUDING SOME CLAY PARTICLES.		20.44					20.0	19
SANDY LOAM YELLOW BROWN GENERALLY HIGHLY COMPACTED, INCLUDING NO GRAVEL IN UPPER PART AND INCLUDING FINE GRAVELS IN LOWER PART.		18.14	21.30				20.0	21
LOAMY SAND GREY OR YELLOW BROWN INCLUDING THIN FINE GRAVEL LAYER AND MUSCOVITE FLAKES.		13.44					20.0	26



GEOLOGICAL LOG OF BURE HOLE STUNG CHINIT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	PHNOM TAKHODAM	LOCATION	LEFT	BANK					
B-4	GROUND ELEVATION	39.44 m	HOLE ANGLE FROM VERTICAL	0°	DRILLING MACHINE	KOKEN OP-1	BEGUN	25 APR 1969	ENGINEER	<i>Yoshikawa</i>
	HOLE DEPTH	30.00 m	KIND OF BIT	METAL CROWN	PUMP	ENGINE	FINISHED	3 MAY 1969	SITE MANAGER	<i>Yoshikawa</i>
	HOLE DIAMETER	86~65 mm	DEPTH TO WATER TABLE	G.L-19.10 m	YANMAR F-9	ENGINE	TOTAL DAYS REQUIRED	9	FOREMAN	<i>Yoshikawa</i>
CLASSIFICATION PHYSICAL CONDITION AND NOTES		ELEVATION M	DEPTH M	LOG	SAMPLE NO	STANDARD PENETRATION RESISTANCE N	PERMEABILITY K (cm/sec)	CORE RECOVERY (%)	DRILLING SPEED (M/HOUR)	
TOP SOIL BROWN		39.14	0.30							
CLAY LOAM BROWN HIGHLY PLASTIC, INCLUDING NO GRAVEL.		37.74	1.70							
SANDY LOAM BROWN OR GREYISH BROWN GREYISH IN UPPER LAYER. BEING ALIKE DECOMPOSED LATERITE.										
EXTREMELY COMPACTED, INCLUDING FEW COALESCED WOODS AND SOME RESIDUAL IRON-CRUSTS IN LOWER PART.										
LATERITE GREYISH BROWN BEING ALIKE PROPHYRITE. RATHER HARD.		23.84	15.60							
SAND MILKY GREY HIGHLY MOISTENED. RATHER CONCRETED INCLUDING SOME CLAY PARTICLES.		20.44								
SANDY LOAM YELLOW BROWN GENERALLY HIGHLY COMPACTED, INCLUDING NO GRAVEL IN UPPER PART AND INCLUDING FINE GRAVELS IN LOWER PART.		18.14	21.30							
LOAMY SAND GREY OR YELLOW BROWN INCLUDING THIN FINE GRAVEL LAYER AND MUSCOVITE FLAKES.		13.44	26							
		-9.44	30							

GENERALLY COMPACTED,
BEING ALIKE DECOMPOSED
LATERITE,
INCLUDING NO GRAVEL.

19.1^m ~ 23.0^m
INCLUDING MUCH COARSE
PARTICLES.

ABOUT 25.0^m
POORLY COMPACTED.

27.0^m ~ 28.0^m
POORLY COMPACTED.

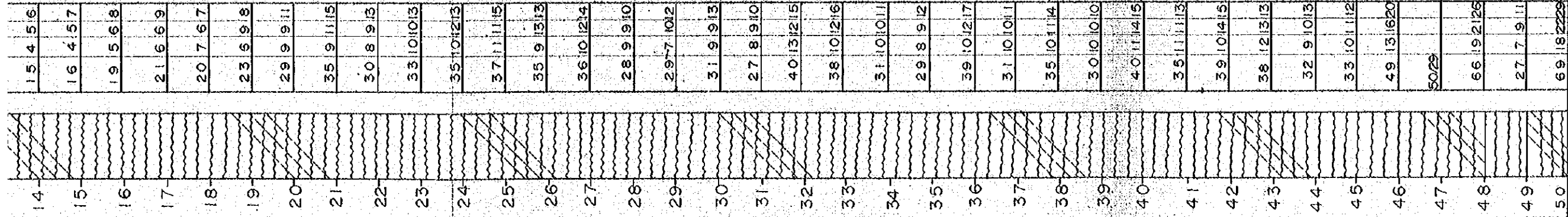
29.5^m ~ 32.1^m
33.5^m ~ 34.0^m
34.5^m ~ 35.4^m
38.0^m ~ 39.1^m

POORLY COMPACTED.
LOWER THAN 30.00
BEING ALIKE ALTERNATION
OF POORLY COMPACTED
ZONE AND COMPACTED
ZONE.

42.6^m ~ 45.0^m
POORLY COMPACTED.

LOAM DARK GREY
ORGANIC,
POORLY COMPACTED.

SANDY LOAM
YELLOWISH BROWN
INCLUDING MUCH COARSE
PARTICLES.



15	4	5	6
16	4	5	7
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20	7	6	7
23	6	9	8
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30	8	9	13
33	10	10	13
35	10	12	13
37	11	11	15
35	9	13	13
36	10	12	14
28	9	9	10
29	7	10	12
31	9	9	13
27	8	9	10
40	13	2	15
38	10	2	16
31	10	10	11
29	8	9	12
39	10	2	17
31	10	10	11
35	10	11	14
30	10	10	10
40	11	14	15
35	11	11	13
39	10	14	15
38	12	13	13
32	9	10	13
33	10	11	12
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27	7	9	11
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OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF BORE HOLE
 STUNG CHINIT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	PHNON TAKHO DAM	LOCATION	RIGHT BANK			
B-7	GROUND ELEVATION	20.95 m	KOKEN OP-1	9 APR 1969			
	HOLE DEPTH	20.00 m	YAMATO DP-5	FINISHED			
	HOLE DIAMETER	86 ~ 65 mm	YANMAR F-9	TOTAL DAYS REQUIRED			
				4			
				FOREMAN <i>Kaneko</i>			
				ENGINEER <i>Yoshihiko</i>			
				SITE MANAGER <i>Shiro</i>			
CLASSIFICATION PHYSICAL CONDITION AND NOTES		ELEVATION	DEPTH	SAMPLE NO	STANDARD PENETRATION RESISTANCE N	PERMEABILITY K (cm/sec)	CORE DRILLING RECOVERY SPEED (%)
TOP SOIL YELLOWISH BROWN INCLUDING MANY ROOTS		2075	0.20				
SANDY LOAM YELLOWISH BROWN INCLUDING MUCH COARSE PARTICLES AND THIN SAND LAYER.		19.25	1.70				
SANDY LOAM BROWN AND GREY DECOMPOSED LATERITE. RATHER FRESH LATERITE IN LOWER PART.			2				
			3				
			4				
			5				
GRAVELY SAND BROWN INCLUDING MANY QUARTZ GRAINS AND SILTY PARTICLES. MOST OF GRAVELS WERE IRON-CRUSTS. HARD AND FRESH.		15.65	5.10				
SILTY LOAM (HUMUS) BLACK OR DARK GREY		14.85	6.10				
VERY ORGANIC INCLUDING BLACKY COALED WOODS. INCREASING COARSE PARTICLES IN LOWER PART.			7				
			8				
			9				
			10				
ALTERNATION OF HUMUS AND SAND		9.85	11.10				
MILKY BROWN AND DARK GREY. THICKNESS OF EACH LAYER WAS ABOUT 20cm INCLUDING SMALL ROUNDED GRAVELS.		8.95	12				
SAND MILKY BROWN AND GREY GENERALLY COMPACTED. INCLUDING NO GRAVEL.		6.15	14.80				
SANDY LOAM BROWN AND GREY			15				
GENERALLY VERY COMPACTED INCLUDING NO GRAVEL AND YELLOWISH PART.			16				
			17				
			18				
			19				
		0.95	20				
			TOTAL	102030			

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN

GEOLOGICAL LOG OF BORE HOLE

STUNG CHINIT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	P H N O M	T A K H O	D A M	L O C A T I O N	R I G H T	B A N K
B-9	GROUND ELEVATION	29.22 ^m	HOLE ANGLE FROM VERTICAL	0°	BORING MACHINE	BEGUN	21 APR 1969
	HOLE DEPTH	20.00 ^m	KIND OF BIT	METAL CROWN	PUMP	FINISHED	24 APR 1969
	HOLE DIAMETER	86~65 ^{mm}	DEPTH TO WATER TABLE	GL-14.50 ^m	ENGINE	TOTAL DAYS REQUIRED	4
CLASSIFICATION PHYSICAL CONDITION AND NOTES		ELEVATION	DEPTH	LOG	STANDARD PENETRATION RESISTANCE N	PERMEABILITY K (cm/sec)	CORE DRILLING RECOVERY SPEED (%) (M/HOUR)
TOP SOIL		29.12	0.10				20.40
SAND GREY OR GREYISH BROWN POORLY GRADED. INCLUDING SOME ORGANIC FRAGMENTS (COALED WOOD). SOME FINE GRAVELS AND SILTY PARTICLES.		24.12	5.10				1.2
SANDY LOAM BROWN DECOMPOSED LATERITE INCLUDING RESIDUAL IRON CRUSTS.		21.92	7.30				2.3
SAND PALE GREY OR MILKY GREY MEDIUM OR FINE SAND. INCLUDING SILTY PARTICLES AND SOME FINE GRAVELS.		20.72	8.50				1.2
SANDY LOAM-YELLOWISH BROWN INCLUDING MUCH SANDY PARTICLES. SOME FINE GRAVELS AND RARELY INCLUDING ORGANIC FRAGMENTS.		18.12	11.10				1.2
SAND PALE GREY GENERALLY MEDIUM SAND BUT POORLY GRADED. INCLUDING SOME FINE GRAVELS AND INCLUDING GRAVELS IN LOWER PART.		9.22	20.00				1.2

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN

GEOLOGICAL LOG OF BORE HOLE

STUNG CHINFT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	ANDAOT DIVERSION DAM	LOCATION	LEFT BANK	ENGINEER
B-10	GROUND ELEVATION	16.84	KOKEN OP-1	BEGUN	3 APR 1969
	HOLE DEPTH	20.00	YAMATO DP-5	FINISHED	7 APR 1969
	HOLE DIAMETER	86~65 mm	YANMAR F-9	TOTAL DAYS REQUIRED	5
HOLE ANGLE FROM VERTICAL: 0° KIND OF BIT: METAL CROWN DEPTH TO WATER TABLE: GL-4.70 m		SOILING MACHINE: PUMP ENGINE:		YAMAMAR FOREMAN: <i>Sasao</i>	
CLASSIFICATION PHYSICAL CONDITION AND NOTES		STANDARD PENETRATION RESISTANCE N		PERMEABILITY K (cm²/sec)	
TOP SOIL MILKY GREY INCLUDING MANY ROOTS.		17 5.6.6		10 ⁻⁴	
SANDY LOAM BROWN INCLUDING MUCH COARSE PARTICLES AND THIN WHITE SAND LAYER.		18 4.6.8		10 ⁻⁴	
SANDY LOAM YELLOWISH BROWN INCLUDING MUCH COARSE PARTICLES AND SOME ORGANIC FRAGMENTS (COALED WOODS).		11 4.3.4 7 2.2.3		10 ⁻⁵	
SAND MILKY WHITE OR PALE BROWN GENERALLY MEDIUM SAND INCLUDING SILTY PARTICLES IN UPPER PART.		9 2.3.4 8 3.2.3 7 2.2.3		10 ⁻⁴	
SAND BROWN CONCRETED MEDIUM TO FINE SAND.		19 5.6.8 21 5.6.0		10 ⁻⁴	
SANDY LOAM BROWN INCLUDING NO GRAVEL IN UPPER PART BUT INCLUDING SOME GRAVELS IN UPPER PART.		25 7.7.11 23 7.8.8		10 ⁻⁴	
GRAVELLY LOAM BROWN INCLUDING ABOUT 30% GRAVELS ROUNDED OR SUB ROUNDED MAX Ø 20 cm.		34 10.11.13 38 10.12.16 38 11.11.16		0.1	
SANDY LOAM PALE GREYISH GREEN. VERY COMPACTED. INCLUDING SOME FINE GRAVELS AND FEW COALED WOODS.		45 12.15.18 41 11.13.17 43 12.13.18 51 13.15.23 55 16.19.20 54 13.20.21		3.3.2	
		TOTAL 10 20 30 40		20:4060:80	
		SAMPLE NO		1 2 3	
		ELEVATION		M/HOUR	
		DEPTH		1 2 3	
		LOG		1 2 3	

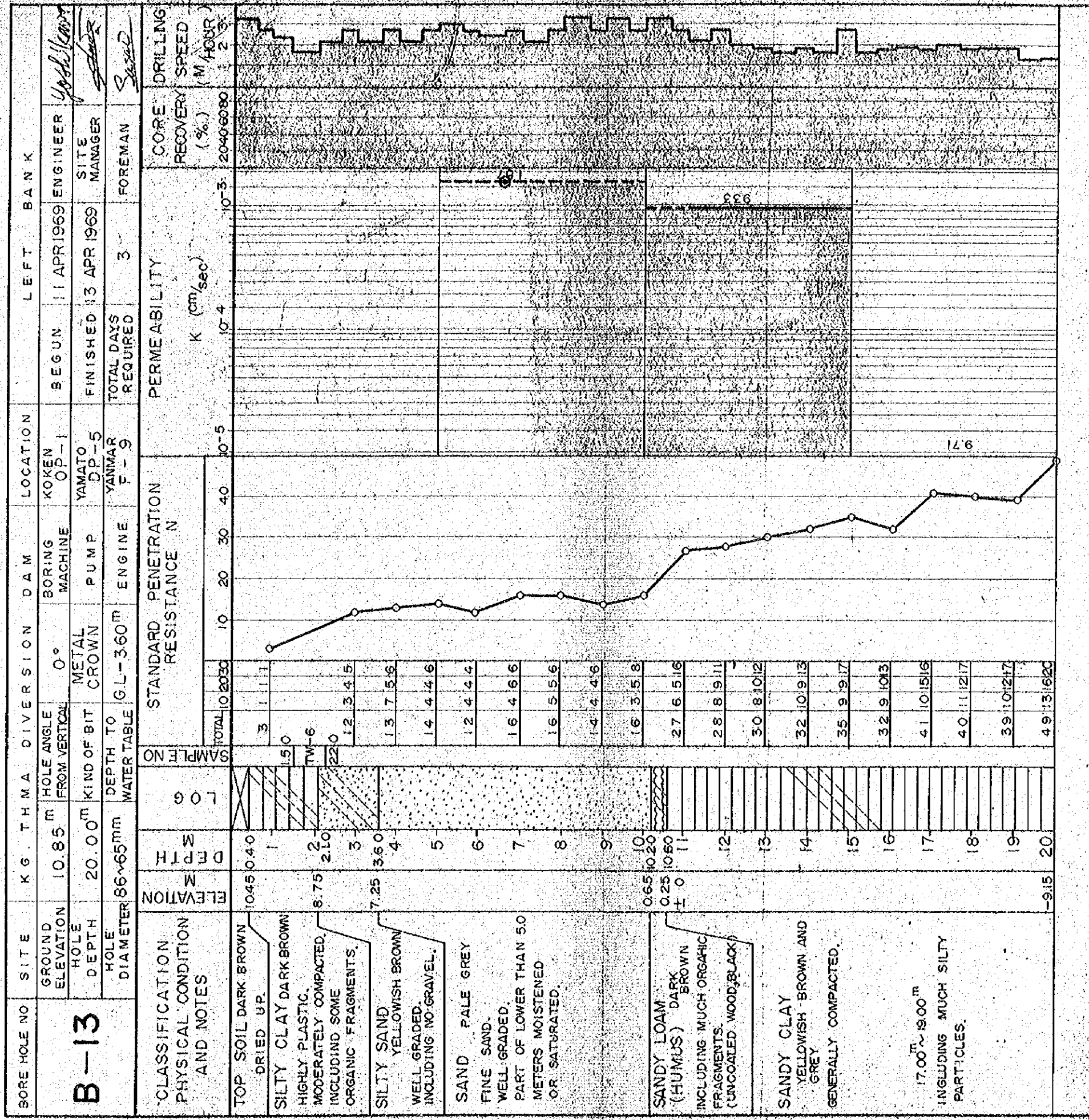
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF BORE HOLE
 STUNG CHINIT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	ANDAOT DIVERSION DAM	LOCATION	RIGHT BANK	ENGINEER
B-12	GROUND ELEVATION	23.44 m	KOKEN OP-1	29 APR 1969	Yoshikawa
	HOLE DEPTH	20.00 m	YAMATO DP-5	FINISHED 2 MAY 1969	SITE MANAGER
HOLE DIAMETER		86~65 mm	YANMAR P-9	TOTAL DAYS REQUIRED	FOREMAN
		HOLE ANGLE FROM VERTICAL	BORING MACHINE	PERMEABILITY	CORE RECOVERY (%)
		0°	PUMP	K (cm/sec)	(M ³ /HOUR)
		KIND OF BIT	STANDARD PENETRATION RESISTANCE N	10 ⁻⁵	1 2 3
		METAL CROWN	DEPTH TO LOWER WATER TABLE	10 ⁻⁶	20 40 60 80
		LOWER ENGINE	THANG-200	3.00	1.00 2.00 3.00
CLASSIFICATION PHYSICAL CONDITION AND NOTES		ELEVATION	DEPTH		
		18.94	4.50		
LATERITE REDDISH BROWN VERY HARD INCLUDING MUCH IRON-CRUSTS DRIED UP. SANDY CLAY BROWN OR REDDISH BROWN INCLUDING SOME GRAVELS IN UPPER LAYER. PART OF LOWER THAN 6.5 METERS INCLUDING NO GRAVEL. COMPLETELY DECOMPOSED LATERITIC ZONE 14.3~16.5 m INCLUDING MUCH COARSE PARTICLES.		1	50/5		
		2	50/8		
		3	50/6		
		4	50/7		
		5	39 10 13 16		
		6	32 8 10 14		
		7	32 9 11 12		
		8	34 10 11 13		
		9	27 8 9 10		
		10	26 9 9 8		
		11	24 6 8 10		
		12	26 7 8 11		
		13	24 6 8 10		
		14	28 8 10 10		
		15	23 6 8 9		
		16	23 7 7 9		
		17	28 7 9 12		
		18	30 8 9 15		
		19	27 8 8 11		
		20	26 7 9 10		

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN

GEOLOGICAL LOG OF BORE HOLE

STUNG CHINIT MULTIPURPOSE PROJECT



OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN

GEOLOGICAL LOG OF BORE HOLE

STUNG CHINIT MULTI-PURPOSE PROJECT

BORE HOLE NO	SITE	POLDER DIKE			LOCATION	LEFT WING	
		GROUND ELEVATION	HOLE ANGLE FROM VERTICAL	BORING MACHINE		KOKEN OP-1	BEGUN
B-16	GROUND ELEVATION	7.00	0°		KOKEN OP-1	17 APR 1969	Y. H. KAWA
	HOLE DEPTH	20.00m		METAL CROWN	YAMATO DP-5	20 APR 1969	SITE MANAGER
	HOLE DIAMETER	86mm	GL-1.25m	ENGINE	YANMAR F-9	4	FOREMAN
	CLASSIFICATION PHYSICAL CONDITION AND NOTES		DEPTH TO WATER TABLE	STANDARD PENERATION RESISTANCE N		PERMEABILITY K (cm/sec)	CORE RECOVERY (%)
	TOP SOIL BROWNISH GREY.	6.80	0.20				20.40
	CLAY DARK BLUE GREY OR GREY RATHER HARD. SHOWING MISCELLANEOUS COLOR.	1.80	5.20				0.80
	SILTY CLAY REDDISH BROWN DECOMPOSED LATERITE. INCLUDING SOME IRON CRUSTS IN UPPER PART.	± 0	7				0.80
	11.00m ~ 12.00m GREY.		10				0.80
	INCLUDING NO GRAVEL IN LOWER PART.		15				0.80
	BEING ALIKE SILTY CLAY LOAM IN THE LOWEST PART.		20				0.80
			TOTAL				20.40

DEPTH (m)	STANDARD PENERATION RESISTANCE N	PERMEABILITY K (cm/sec)	CORE RECOVERY (%)	DRILLING SPEED (M/HOUR)
0.20	12	10 ⁻⁶	20.40	1.2
0.4	14	10 ⁻⁶	20.40	1.2
0.5	23	10 ⁻⁵	20.40	1.2
0.6	22	10 ⁻⁵	20.40	1.2
0.7	25	10 ⁻⁵	20.40	1.2
0.8	26	10 ⁻⁵	20.40	1.2
0.9	28	10 ⁻⁵	20.40	1.2
1.0	22	10 ⁻⁵	20.40	1.2
1.1	24	10 ⁻⁵	20.40	1.2
1.2	23	10 ⁻⁵	20.40	1.2
1.3	26	10 ⁻⁵	20.40	1.2
1.4	26	10 ⁻⁵	20.40	1.2
1.5	29	10 ⁻⁵	20.40	1.2
1.6	29	10 ⁻⁵	20.40	1.2
1.7	31	10 ⁻⁵	20.40	1.2
1.8	30	10 ⁻⁵	20.40	1.2
1.9	33	10 ⁻⁵	20.40	1.2
2.0	34	10 ⁻⁵	20.40	1.2
2.1	35	10 ⁻⁵	20.40	1.2

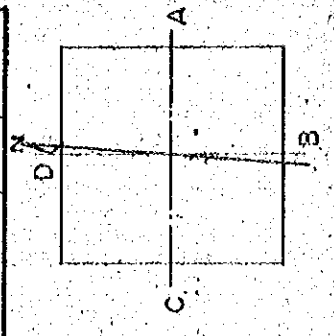
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF BORE HOLE
 STUNG CHINIT MULTIPURPOSE PROJECT

BORE HOLE NO	SITE	POLDER DIKE			LOCATION			CENTER				
		GROUND ELEVATION	HOLE ANGLE FROM VERTICAL	BORING MACHINE	KOKEN OP-1	BEGUN	ENGINEER	FINISHED	SITE MANAGER	PERMEABILITY	PERMEABILITY	PERMEABILITY
B-17	GROUND ELEVATION 6.11 m HOLE DEPTH 20.00 m HOLE DIAMETER 86 x 65 mm	0°	PUMP	YAMATO DP-5	21 APR 1969	Yoshioka	24 APR 1969	Site Manager	10 ⁻³	10 ⁻⁴	10 ⁻⁵	
		METAL CROWN	ENGINE	YANMAR F-7	TOTAL DAYS REQUIRED 4		Foreman	Site				
CLASSIFICATION PHYSICAL CONDITION AND NOTES		DEPTH (m)	ELEVATION (m)	LOG	SAMPLE NO	STANDARD PENETRATION RESISTANCE (N)	PERMEABILITY K (cm/sec)	CORE RECOVERY (%)	DRILLING SPEED (M/HOUR)			
<p>SAND MILKY GREY VERY FINE SAND. PART OF LOWER THAN 0.3 METER WAS HIGHLY MOISTENED OR SATURATED. MEDIUM DENSITY.</p> <p>SANDY CLAY PALE GREY HIGHLY PLASTIC. COLOR OF CORE SURFACE QUICKLY CHANGES TO REDDISH BROWN.</p> <p>SILTY CLAY REDDISH BROWN HIGHLY PLASTIC COMPACTED AND INCLUDING NO GRAVEL. DECOMPOSED LATERITE.</p> <p>SANDY CLAY BROWN AND GREY PLASTIC INCLUDING NO GRAVEL. VERY COMPACTED.</p>		1				14 4 4 6						
		2				15 4 5 6						
		3					18 5 6 7					
		4					16 4 6 6					
		5	16.1	4.50			15 4 5 6					
		6	± 0				12 4 4 4					
		7					13 4 4 5					
		8	-1.09	7.20			14 4 4 6					
		9					3 1 9 10 12					
		10					3 4 10 10 14					
		11					3 4 9 12 13					
		12					3 5 8 13 14					
		13					3 5 10 9 16					
		14					3 7 11 12 14					
		15					3 6 10 10 16					
		16	-9.89				3 6 12 11 13					
		17					5 4 16 18 20					
		18					5 2 13 17 22					
		19					50/20					
		20	-13.89				50/22					

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTI-PURPOSE PROJECT

NO	SITE	PHNOM TAKHO DAM SITE	LOCATION	LEFT	BANK
TP-2	GROUND ELEVATION	27.30	M. 1.20 x 1.20	ENGINEER	Yoshi'kawa
	DEPTH	5.00	METHOD OF EXCAVATION	HAND	LOGGED BY: <i>Kanamaru</i>
				TOTAL DAYS REQUIRED	4

DESCRIPTION	ELEVATION M	DEPTH M	LOG				SAMPLE NO.	A. C. SYMBOL
			A	B	C	D		
TOP SOIL DARK BROWN INCLUDING MUCH ROOTS.	27.10	0.20	WOOD ROOT					
CLAY LOAM REDDISH BROWN INCLUDING SOME GRAVELS AND SOME ROOTS. COMPACTED.	26.50	0.80						C.L.
CLAY LOAM BROWN INCLUDING FINE GRAVELS. ALL GRAVELS ARE IRON-CRUSTS ϕ 0.5 ~ 1.5 cm INCLUDING SOME ROOTS. COMPACTED.	25.50	1.80						G.M.
CLAY LOAM DARK BROWN COMPACTED INCLUDING FEW FINE GRAVELS AND NO ROOT. MODERATELY PLASTIC.	24.80	2.50						C.L.
LATERITE REDDISH BROWN AND GREY. DECOMPOSED. INCLUDING SOME RESIDUAL IRON - CRUSTS. COMPACTED.								
	22.30	5						C.L.

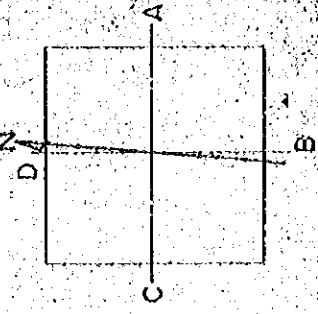


NOTE:
 NO SAMPLE WAS TAKEN.

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	PHNOM TAKHO DAM SITE	LOCATION	LEFT BANK
	GROUND ELEVATION	24.43	DIMENSION	M. 1.10 x 1.10
TP-3	DEPTH	5.00	METHOD OF EXCAVATION	HAND
	ENGINEER	Yoshioka		
	SITE MANAGER	Kawano		
	LOGGED BY	7		
	TOTAL DAYS REQUIRED			

DESCRIPTION	ELEVATION	DEPTH	LOG				SAMPLE NO.	A.C. SYMBOL
			A	B	C	D		
<u>SANDY LOAM BROWN</u> INCLUDING SOME GRAVELS. (63-80% CR=10%) AND FEW FINE GRAVELS.	2293	1.50	GRAVEL		ROOT	DARK BROWN		S.M.
INCLUDING MUCH ROOTS IN THE LOWEST LAYER.		2						S.M.
<u>LATERITE BROWN AND GREY</u> DECOMPOSED. INCLUDING NO RESIDUAL IRON-CRUST IN UPPER LAYER AND SOME RESIDUAL IRON-CRUSTS IN LOWER LAYER. SHOWING MISCELLANEOUS COLOR	2203	2.40						S.M.
<u>LATERITE PALE BROWN</u> INCLUDING MUCH IRON-CRUSTS IRON-CRUSTS ARE VERY HARD INCLUDING FEW ROOTS.	2093	3.50						G.M.
<u>SANDY LOAM YELLOWISH BROWN.</u> DECOMPOSED LATERITIC ZONE COMPACTED. INCLUDING NO GRAVEL AND MUCH SANDY PARTICLES.	1943	5						M.L.



NOTE:
 4 DISTURBED SMALL SAMPLES WERE TAKEN

OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

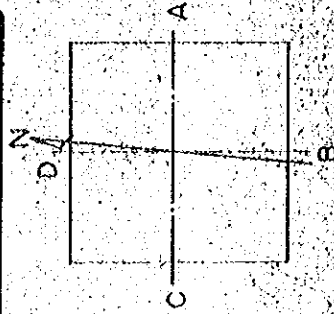
NO	SITE	PHNOM DIMENSION	TAKHO DIMENSION	DAM SITE	LOCATION	RIGHT BANK
TP-4	GROUND ELEVATION	18.75	1.20 x 1.20	M	ENGINEER	Yoshikawa
	DEPTH	5.00	METHOD OF EXCAVATION	HAND	TOTAL DAYS REQUIRED	6
					LOGGED BY	Kawachi

DESCRIPTION	ELEVATION M	DEPTH M	LOG				SAMPLE NO	A.C. SYMBOL
			A	B	C	D		
SANDY LOAM MILKY GREYISH BROWN INCLUDING MUCH ROOTS IN UPPER PART, SOME CAVES MADE BY ANIMALS OR INSECTS. GRAVELS AND FEW COALED WOOD.	17.75	1	A	B	C	D		S.M
SANDY LOAM YELLOWISH BROWN GENERALLY INCLUDING COARSE PARTICLES. RARELY INCLUDING ROOTS PARTS WHERE NOTED WITH STAR MARKS (☆) ARE INCLUDING CONSIDERABLY MUCH COARSE PARTICLES.	16.75	2						S.M
SAND YELLOWISH-BROWN MEDIUM GRAIN, WELL GRADED.	15.30 15.11	3.45 3.64						S.M
SANDY CLAY MILKY GREY HIGHLY PLASTIC INCLUDING NO GRAVEL.	14.81 14.75	3.94 4						S.W
SAND GREY MEDIUM TO FINE SAND SATURATED.	14.35	4.40						S.C
SAND YELLOWISH BROWN FINE TO VERY FINE SAND SATURATED.	13.75	5						S.M

NOTE:

2 THIN WALL SAMPLES BY STATIONARY PISTON SAMPLER WERE TAKEN FROM THIS TEST PIT.

5 DISTURBED SMALL SAMPLES WERE TAKEN.



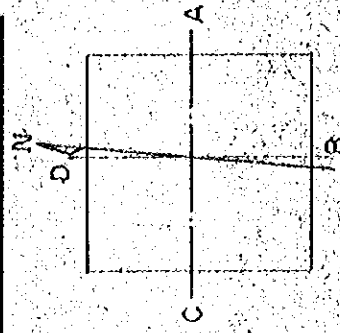
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	PHNOM TAKHO DAM SITE	LOCATION	RIGHT BANK
TP-5	GROUND ELEVATION	M. 20.02	ENGINEER	Yoshikawa
	DEPTH	M. 5.00	METHOD OF EXCAVATION	HAND
			TOTAL DAYS REQUIRED	7
			LOGGED BY	Kawasaki

DESCRIPTION	ELEVATION M	DEPTH M	LOG				A.C SYMBOL	SAMPLE NO
			A	B	C	D		
TOP SOIL DARK BROWN INCLUDING SOME GRAVELS AND ROOTS VERY COMPACTED.	19.82	0.20						
SAND YELLOWISH BROWN GENERALLY MEDIUM GRAIN. POORLY GRADED. INCLUDING FEW ROOTS AND NO GRAVELS. MEDIUM DENSITY. INCLUDING FEW SILTY PARTICLES. DRIED UP.	18.02	2						S.M.
SAND YELLOWISH BROWN POORLY GRADED. INCLUDING SOME SILTY PARTICLES AND FEW ROOTS. VERY POORLY MOISTENED.	17.02	3						S.M.
SAND YELLOWISH BROWN POORLY GRADED. INCLUDING MUCH SILTY PARTICLES AND NO ROOT. POORLY MOISTENED.	16.32	3.70						S.M.
LATERITE REDDISH BROWN DECOMPOSED IN UPPER PART. GENERALLY HARD. INCLUDING MUCH IRON-CRUSTS.		4						
BEING ALIKE BED ROCK IN THE LOWEST PART.	15.02	5						G.M.

NOTE:

4 DISTURBED SMALL SAMPLES AND 4 DISTURBED LARGE SAMPLE WERE TAKEN.



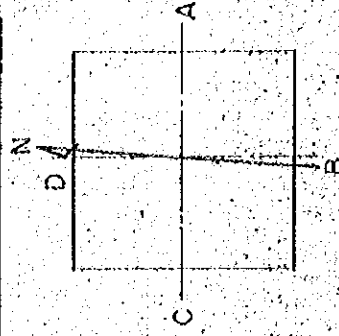
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	PHNOM TAKHO DAM SITE	LOCATION	RIGHT BANK
TP-6	GROUND ELEVATION	21.39	ENGINEER	SITE MANAGER
	DEPTH	5.00	Yoshitaka	LOGGED BY
		METHOD OF EXCAVATION	TOTAL DAYS REQUIRED	
		HAND	6	Kawasaki

DESCRIPTION	ELEVATION	DEPTH	LOG				SAMPLE NO	A.C. SYMBOL
			A	B	C	D		
TOP SOIL DARK BROWN VERY COMPACTED INCLUDING SOME ROOTS.	21.07	0.32						
SANDY LOAM GREY AND BROWN INCLUDING FEW ROOTS. NO GRAVEL AND MUCH COARSE PARTICLES. SHOWING MISCELLANEOUS COLOR.		2						
		3						
	17.48	3.91					S.M.	
SAND MILKY WHITE MEDIUM GRAIN. WELL GRADED. VERY COMPACTED. INCLUDING FEW GRANULE SIZED GRAVELS.		4						
	16.39	5					S.M.	

NOTE:

NO SAMPLE WAS TAKEN.



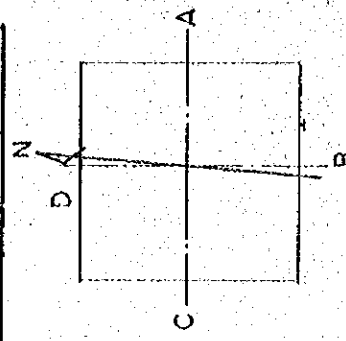
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	PHNOM	TAKHO DAM SITE	LOCATION	RIGHT	BANK
TP-7	GROUND ELEVATION	M 24.76	M 1.20 x 1.20	ENGINEER	Yoshihiko	SITE MANAGER
	DEPTH	M 5.00	HAND	TOTAL DAYS REQUIRED	6	LOGGED BY.
						Kamada

DESCRIPTION	ELEVATION	DEPTH	LOG				A.C. SYMBOL
			A	B	C	D	
TOP SOIL DARK BROWN VERY COMPACTED	24.56	0.20					
SANDY LOAM PALE BROWN INCLUDING FEW GRAVELS AND SOME ROOTS							
LATERITE BROWN DECOMPOSED INCLUDING MUCH RESIDUAL IRON-CRUSTS AND MUCH ROOTS.	23.36	1.40					S.M.
LATERITE YELLOW-BROWN COMPLETELY DECOMPOSED. RARELY INCLUDING RESIDUAL IRON-CRUSTS BEING ALIKE SANDY LOAM	22.66	2.10					G.M.
LATERITE BROWN BEING ALIKE BED ROCK INCLUDING MUCH IRON-CRUSTS VERY HARD	22.06	2.70					M.L.
	19.76	5					M.L.

NOTE:

NO SAMPLE WAS TAKEN.



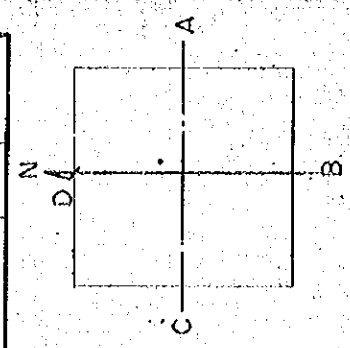
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	POLDER	DIKE	LOCATION	LEFT	WING	
TP-8	GROUND ELEVATION	7.11	DIMENSION	M ² 1.20 x 1.20	ENGINEER	Yoshihiko <i>Yoshihiko</i> SITE MANAGER	
	DEPTH	5.00	METHOD OF EXCAVATION	HAND	TOTAL DAYS REQUIRED	5	LOGGED BY

DESCRIPTION	ELEVATION M	DEPTH M	LOG				A.C SYMBOL
			A	B	C	D	
TOP SOIL DARK BROWN VERY COMPACTED INCLUDING MUCH ROOTS	7.01	0.10	A				M.L
SANDY LOAM YELLOWISH BROWN INCLUDING SOME ROOTS MODERELY COMPACTED.			B				
LATERITE REDDISH BROWN DECOMPOSED INCLUDING RESIDUAL IRON- CRUSTS. NO ROOT AND NO GRAVEL. OBSERVED MUCH VERTICAL CRACKS.	6.21	0.90	C				C.H
LATERITE BROWN COMPLETELY DECOMPOS. BEING ALIKE SANDY CLAY. INCLUDING NO IRON-CRUST. SHOWING MISCELLANEOUS COLOR.	5.01	2.10	D				
SANDY CLAY YELLOWISH BROWN MODERATELY COMPACTED INCLUDING NO IRON-CRUST GRAVEL AND SOME COALED WOODS.	4.11	3	A				S.C
			B				
			C				S.C
			D				
	2.11	5	A				S.C
			B				

NOTE:

2 DISTURBED SMALL SAMPLES AND 4 DISTURBED LARGE SAMPLE WERE TAKEN



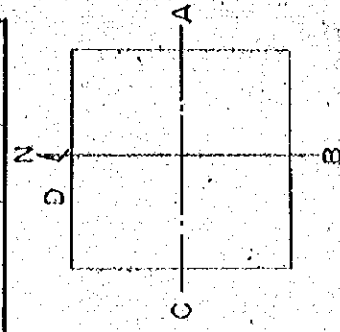
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	POLDER	DIKE	LOCATION	CENTER
TP-9	GROUND ELEVATION	7 M 19	DIMENSION	M 1.20 x 1.20	ENGINEER
	DEPTH	3 M 00	METHOD OF EXCAVATION	HAND	TOTAL DAYS REQUIRED
				3	LOGGED BY
					<i>Kawachi</i>

DESCRIPTION	ELEVATION	DEPTH	LOG				A.C. SYMBOL
			A	B	C	D	
TOP SOIL GREYISH BROWN INCLUDING MUCH ROOTS	7.09	0.10					S.M.
SANDY LOAM GREYISH BROWN INCLUDING SOME ROOTS AND NO GRAVEL	6.89	0.30					
LATERITE REDDISH BROWN DECOMPOSED INCLUDING SOME RESIDUAL IRON - CRUSTS	6.09	1.10					M.L.
SANDY CLAY YELLOWISH BROWN COMPLETELY DECOMPOSED LATERITIC ZONE RARELY INCLUDING RESIDUAL IRON - CRUSTS COMPACTED	4.99	2.20					S.C.
SANDY LOAM MILKY BROWN COMPLETELY DECOMPOSED LATERITE RARELY INCLUDING RESIDUAL IRON - CRUSTS SATURATED	4.19	3					S.M.

NOTE:

DIGGING WAS STOPPED OWING TO ERUPTION OF GROUNDWATER.
 2 DISTURBED SMALL SAMPLES WERE TAKEN.



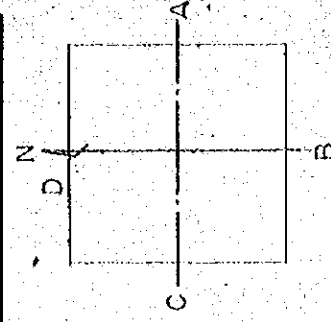
OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO	SITE	POLDER	DIKE	LOCATION	RIGHT	WING
TP-10	GROUND ELEVATION	7.15	M 1.10 x 1.10	ENGINEER	Yoshioka	SITE MANAGER
	DEPTH	3.50	HAND	TOTAL DAYS REQUIRED	3	LOGGED BY.
			METHOD OF EXCAVATION			Kawachi

DESCRIPTION	ELEVATION M	DEPTH M	LOG				SAMPLE NO.	A.C. SYMBOL
			A	B	C	D		
TOP SOIL GREYISH BROWN INCLUDING MUCH ROOTS.	7.05	0.10						S.M
SANDY LOAM GREYISH BROWN INCLUDING SOME ROOTS AND NO GRAVEL.	6.85	0.30						
LATERITE REDDISH BROWN DECOMPOSED INCLUDING SOME RESIDUAL IRON-CRUSTS. MODERATELY COMPACTED.	5.95	1.20						M.L.
SANDY CLAY YELLOWISH BROWN COMPLETELY DECOMPOSED LATERITIC ZONE. RARELY INCLUDING RESIDUAL IRON-CRUSTS. MODERATELY COMPACTED.	4.95	2.20						S.C.
SANDY LOAM MILKY BROWN COMPLETELY DECOMPOSED LATERITIC ZONE RARELY INCLUDING RESIDUAL IRON-CRUSTS SATURATED	3.65	3.50						M.L.

NOTE:

DIGGING WAS STOPPED OWING TO ERUPTION OF GROUNDWATER.
 2 DISTURBED SMALL SAMPLES WERE TAKEN.



OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN
GEOLOGICAL LOG OF TEST PIT
 STUNG CHINIT MULTIPURPOSE PROJECT

NO : TP-11	SITE	POLDER DIKE	LOCATION	RIGHT WING
	GROUND ELEVATION 7.39 M	DIMENSION 1.20 x 1.20 M	ENGINEER <i>Yoshioka</i>	SITE MANAGER <i>Shoji</i>
	DEPTH 3.50 M	METHOD OF EXCAVATION	HAND	TOTAL DAYS REQUIRED 3
				LOGGED BY. <i>Kawachi</i>

DESCRIPTION	ELEVATION M	DEPTH M	LOG				SAMPLE NO	A.C. SYMBOL
			A	B	C	D		
<u>TOP SOIL</u> DARK BROWN COMPACTED. INCLUDING MUCH ROOTS OBSERVED THIN YELLOW LAYER IN THE LOWEST PART.	7.09	0.30						O.L
<u>SILTY CLAY</u> GREY HIGHLY PLASTIC. INCLUDING NO ROOT AND NO GRAVEL.	6.69	0.70					24	C.H
<u>SILTY CLAY</u> YELLOWISH BROWN COMPLETELY DECOMPOSED LATERITIC ZONE INCLUDING REDDISH PARTS	6.49	0.90					25	C.H
<u>SILTY CLAY</u> GREYISH BROWN or PALE GREYISH BROWN MODERATELY COMPACTED. HIGHLY PLASTIC. (INCLUDING NO GRAVEL, NO ROOT	2.50							
OBSERVED WATER ERUPTION VERY MOISTENED IN LOWER LAYER								
	3.89	3.50					26	C.H

NOTE:

DIGGING WAS STOPPED OWING TO ERUPTION OF GROUNDWATER.
 3 DISTURBED SMALL SAMPLES WERE TAKEN.

