397.14m YBM-05D LOGGED Susumura N value Permeability-K-(cm/sec) NIPPON KOEI CO., LTD. OF 19 DRILL RIG ELEVATION $\widetilde{\omega}$ o 70. NO. 21,4 m Vertical Ochiai SHEET <u>ධ</u> ගු Q DRILLED INCLINATION DEPTH BD 18 RECOVERY ৪ 22 CORE LEVEL NO. CROUNDWATER 2 × 100% PROJECT 12049762 Y: 29059. 1 8/23 TO 8/29 HOLE DIVMETER 8 BIL Pinkish to whitish brown(alternating color with the 0.5 to 1 cm intervals) clay. Origine of the clay is weathered granitic gneiss and pyroxene hornblend gneiss.

Dip of alternating color band is 25 Reddish brown, silty clay. High plasticity. Limonite nodules are seen. Light brown, heavily weathered granitic gneiss. Cutting or fragmental cores by the drilling work. Fragile. Moderately fresh, partly very hard. granitic gneiss. Cracks developing at the hole bottom. Light or yellowish brown, laterite soil. High plasticity. 3 POWER X :Sa FROM DESCRIPTION HOLE COORDINATE HYDROELECTRIC DATE OF *R.Q.D is Rock Quality Designation, R.Q.D=(Total length of cylindric cores *LUGEON VALUE is Umin/m under injection water pressure of 10kg/cm? *DEPTH and ELEVATION are in meter *DIAMETER is in millimeter degrees END Site-LOG COLUMN SECTION + + + (Pam ш + + + エル HEAVILY WEATHERED GNEISS WEATHERED GNEISS DRILL RIGHT BANK ROCK TYPE LATERITE SOIL FORMATION REDDISH TO PINKISH CLAY SILTY MEMVE 44 OR 393.34 37934 1/2 375.74 ELEVATION 377 160 PROJECT AVERAGE C RECOVER SITE 3.8 17.8 21.4 DEPTH DATE

LOG FORM-B

HOLE NO.

CONSULTING ENGINEERS, TOKYO.

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SHEEL NO. // OF //	
HOLE NO. 80 1	

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OF 19	10N 388.75 m RIG YBM-05D ED <24 musrs	to (K)	2.77	LTD.
NO. 19	m ELEVATION all DRILL RIG scans LOGGED	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1,700	KOEI CO.
SHEET	ON Vertice	A B		NIPPON K
BD 19	DEPTH INCLINATION DRILLED	CORE RECOVERY % B		
NO.	ECT 28765.80 8/8, /92	скопирмутев БІАМЕТЕВ		ngth) × 100%
HOLE	PROJ 10 TO	& TIE	ing ing ene and ery	al core let
	TRIC POWJER COORDINATE $X:49932$ DATE FROM $8/26$	CRIPTION	medium sa medium sa medium sa lowish browsh brow	D OF HOLE cores longer than 10 cm)/(Total
<i>(</i> 5	0ELEC- - 1)		Frown, organized by the soil. High dense and is and brown. of heavily granitic stand and 12.8 Fresh granitic zogeneisss. 8.5 - 9.5 quarzite stand granitic zogeneisss. Schistocity degree dipp Granitic zogeneiss. 11.1 - 12.2 - 15.9 - 19.55 degree site stand granitic zogeneiss. Augite - Py: 11.1 - 12.6 - 19.55 degrees.	END s cylindric co
LOG	4	COLUMN	+ + + + + + + + + + + + + + + + + + +	otal length o
DRILL	MEMVE ELE LEFT BANK (D 95%		TOP SOIL RIVER SAND SAND HEAVILY WEATHERED GRANITIC GNEISS GNEISS	ENI **R.Q.D is Rock Quality Designation, R.Q.D=(Total length of cylindric of **LUGEON VALUE is l/min/m under injection water pressure of 10kg/cm²* **DEPTH and ELEVATION are in meter
		ELEVATION	383.75 383.75 372.75 372.75 372.95 375.95	ck Quality D
	PROJECT SITE AVERAGE CORE RECOVERY	ревля	20 20 20 20 20 20 20 20 20 20 20 20 20 2	R.Q.D is Ro
	AV	DATE	ականավումանանականականականականականականականականակա	FOC FORM—B

DEPTH(m): 0-5 GAUGE INJECTION TEST HOLE GAU	No. : BD-1
GAUGE INJECTION TEST HOLE GAU PRESS. QUANTITY LENGTH DIA HEI	GE WATER TEST LUCEON K VALUE
PRESS. QUANTITY LENGTH DIA HEI	ICE WATER TEST LUCEON K VALUE
	GE WAIEN! IEST LUGEON IN-AMPOR
Kg/cm2 Lit / Min Lit / Min/ m mm	GHT LEVEL PRESS. VALUE
	m m Kg/cm2 cm/sec
0.47 5.00 1.00 5.00 66	0.66 2.50 0.79 12.72 1.69E-0
RECORD OF WATER PRESSURE TEST HOLE	No. : BD-1
DEPTH(m): 6-10	
GAUGE INJECTION TEST HOLE GAU	OF WATER TEGT WOLON W WALLE
	GE WATER TEST LUGEON K-VALUE
Kg/cm2 Lit/Min Lit/Min/ m mm	
Rg/Cinz Lit/Will Lit/Will/ III IIIII	m m Kg/cm2 cm/sec
0.54 18.00 4.50 4.00 66	0.66 8.00 1.41 32.01 4.07E-0
	0.66 8.00 1.74 25.92 3.30E-0
10.00 4.00 00	0.00 0.00 1.74 23.92 3.30L-0
RECORD OF WATER PRESSURE TEST HOLE	No. : BD-1
DEPTH(m): 11-15	
GAUGE INJECTION TEST HOLE GAU	GE WATER TEST LUGEON K-VALUE
	SHT LEVEL PRESS. VALUE
Kg/cm2 Lit / Min Lit / Min/ m mm	m m Kg/cm2 cm/sec
	0.66 8.55 1.92 7.55 9.61E-0
1.50 29.90 7.48 4.00 66	0.66 8.55 2.42 30.88 3.93E-0
2.00 63.70 15.93 4.00 66	0.66 8.55 2.92 54.52 6.94E-0
RECORD OF WATER PRESSURE TEST HOLE	No. : BD-1
DEPTH(m): 18.5-20	
CAUCE IN FOTION TEST HOLE IOA	OF WATER LITTOR IN 10 CON IN WATER
	GE WATER TEST LUGEON K-VALUE
	GHT LEVEL PRESS. VALUE
Kg/cm2 Lit / Min Lit / Min/ m mm	m m Kg / cm2 cm / sec
2.00 3.00 2.00 1.50 66	0.63 8.95 2.96 6.76 6.85E-0
	0.63 8.95 2.96 6.76 6.85E-0
	0.63 8.95 6.96 6.23 6.31E-0
	0.63 8.95 8.96 5.95 6.03E-0
	0.63 8.95 10.96 7.30 7.39E-0
	0.63 8.95 8.96 7.44 7.53E-0
	0.63 8.95 6.96 7.67 7.76E-0
	0.63 8.95 4.96 8.07 8.17E-0
	0.63 8.95 2.96 9.24 9.36E-0

	BECOE	D OF WATER	ppreeli	DE TECT	H	OLE No.	•	BD-2		<u> </u>
	DEPTH(i		TENLOSO	1-5	T!!	OLL NO.	T	DU-Z		<u> </u>
	DET IIII	117:	L	1-5	L	L		<u> </u>	L	I
	CALICE	INJECTION	·	TEST	HOLE	GAUGE	WATER	TEST	LUGEON	ΙΚ-VΔΙ ΙΙΙ
		QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	IK-VALO
	Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
<u> </u>	rtg/tiliz	Fie / Milit	FIZ \ IAIII!		111111	L	111	ity / ciliz	:	GIII / SEC
	0.50	2.00	0.50	4.00	66	1.20	0.40	0.66	7.58	9.64E-0
	1.00	3.00	0.75		66		0.40			8.23E-0
•	1.50	7.00			66					1.34E-0
	2.00	12.00			66					
	1.50	8.00			66					1.53E-0
-	1.00	6.00			66					1.65E-0
_	0.50	4.00			66					1.93E-0
	0.50	4.00	1.00	4.00	00	1.20	0.40	0.00	13.13	1.531-1
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-	K MALLE	: COEFFICIE	NT OF DE	DESCADUL	77	<u> </u>			-	
-	K-AHLOE	COEFFICIE	INI OF PE	NIVICADILI	1 1	<u> </u>				<u> </u>
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-	DEAAR	D OF WATER	DDECOL	DE TEST	L	OLE No	l	BD-2		
4		D OF WATER	THESSU		<u></u>	OLE No.	<u> </u>	DU-2		
_	DEPTH(r	n):	<u> </u>	'5-10	<u></u>	<u> </u>		l	1	<u> </u>
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_		INJECTION		TEST		GAUGE			LUGEON	K-VALU
_		QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	
_	Kg/cm2	Lit / Min	Lit / Min/	m	mm	<u> m</u>	m	Kg / cm2	<u> </u>	cm / se
					·		·····	·		
_	1.00	0.50	0.10	5.00	66		0.40	1.16		1.15E-0
_	2.00	1.20			66		0.40	2.16		1.48E-0
	3.00	3.00	0.60	5.00	66		0.40	3.16		2.53E-(
_	4.00	4.60	0.92	5.00	66		0.40	4.16		2.95E-(
	3.00	3.20	0.64	5.00	66		0.40	3.16		2.70E-0
	2.00	2.00	0.40	5.00	66		0.40	2.16		2.47E-0
	1.00	0.80	0.16	5.00	66	1.20	0.40	1.16	1.38	1.84E-0
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	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ΤY					
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	RECOR	D OF WATER	R PRESSU		Н	OLE No.	:	BD-2	7.	
	DEPTH(r	n):		'10-15						
		INJECTION		TEST	HOLE	GAUGE	WATER		LUGEON	K-VALU
		QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	6
1	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / se
1							•			
١	1.00	0.20	0.04	5.00	66	1.20	0.40	1.16	0.34	4.59E-0
1	2.00	0.50	0.10	5.00	66		0.40			6.17E-0
1	4.00	0.70	0.14	5.00	66			4.16		4.48E-0
1	6.00	1.20	0.24	5.00	66		0.40	6.16		5.19E-(
7	4.00	0.90	0.18	5.00	66		0.40	4.16		5.76E-0
+	2.00	0.60	0.12	5.00	66		0.40	2.16		7.40E-
+	1.00	0.20	0.04	5.00	66		0.40	1.16	0.34	
+	1.00	<u> </u>	V.U4	3.00		1.20	0.40	1, 10	0.34	-4.J3L-\
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_		D OF WATER			Н	OLE No.	<del> </del>	BD-2		
T	DEPTH(r	n):		15-20					L	
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ť	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALU
		QUANTITY		LENGTH	DΙΔ	HEIGHT	LEVEL	PRESS.	VALUE	
	Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2		cm / se
+	Ng/onia	Pric / IASIIS	Fig. / Interior	111	131111	E11	l	ng / ome	•	10111 / 301
	2.00	0.00	0.00	5.00	66	1.20	0.40	2.16	0.00	####
-				5.00				4.16		####
-	4.00	0.00							0.00	7.44E-0
1	7.00	0.20	0.04	5.00				7.16		
1	10.00	0.30	0.06	5.00				10.16		7.86E-
1	7.00	0.10	0.02	5.00				7.16		3.72E-
1	4.00	0.00		5.00				4.16		####
	2.00	0.00	0.00	5.00	66	1.20	0.40	2.16	0.00	####
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Ħ	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ΤΥ			:		
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-VALU m / sec 3.14E-0 5.58E-0 1.05E-0 2.48E-0 2.43E-0 2.75E-0
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				Dr. mroz	<u> </u>	L				
_		D OF WATE	RPRESSU		Н	OLE No.		BD-3		
	DEPTH(r	n):	<u> </u>	'15-20	<u> </u>	L			<u> </u>	
	, s (in t				·		-			
		INJECTION		TEST		GAUGE	WATER		LUGEON	K-VALUE
1	PRESS.	QUANTITY		LENGTH	DIA	HEIGHT	LEVEL	PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2	2	cm / sec
			:							
	1.00	24.00	4.80	5.00	66	0.65	2.46	1.31	36.61	4.88E-0
	2.00	30.00	6.00	5.00	66	0.65	2.46	2.31	25.96	3.46E-0
-	3.00	38.00		5.00	66		2.46	3.31	22.95	
_	4.20	46.00	9.20	5.00	66		2.46	4.51	20.39	
7	3.00	40.00	8.00	5.00	66		2.46	3.31	24.16	
┪	2.00	31.00	6.20	5.00	66		2.46	2.31	26.83	
4	1.00	26.00	5.20	5.00	66		2.46	1.31	39.66	
4	1.00	20.00	5.20	5.00	00	0.05	2.40	1.31	39.00	5.28E-0
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_	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
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٦		D OF WATER	RPRESSU	RE TEST	Н	OLE No.	•	BD-3		
1	DEPTH(n	n):		'20-25		I				
1				<u> </u>		I		<b> </b>	I	· · · · · · · · · · · · · · · · · · ·
7	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
		QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
	Ng/Citiz.	2-15 / 141111	LILY WITH	111	131131	141	316	rty / Ciliz	• •	Cili / Sec
+	0.50	21.00	4.20	5.00	66	0.65	2.46	0.81	E4 70	6.90E-0
	וטפיט	∠ 1.00	4.20	3.00						
Ť	4 00									
_[	1.00	25.00	5.00	5.00	66	0.65	2.46	1.31	38.14	5.08E-0
	1.50	25.00 30.50	5.00 6.10	5.00 5.00	66 66	0.65 0.65	2.46 2.46	1.31 1.81	38.14 33.68	5.08E-0- 4.49E-0-
	1.50 1.70	25.00 30.50 46.00	5.00 6.10 9.20	5.00 5.00 5.00	66 66 66	0.65 0.65 0.65	2.46 2.46 2.46	1.31 1.81 2.01	38.14 33.68 45.75	5.08E-0- 4.49E-0- 6.09E-0-
	1.50 1.70 1.50	25.00 30.50 46.00 30.00	5.00 6.10 9.20 6.00	5.00 5.00 5.00 5.00	66 66 66	0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81	38.14 33.68 45.75 33.13	5.08E-04 4.49E-04 6.09E-04 4.41E-04
	1.50 1.70 1.50 1.00	25.00 30.50 46.00 30.00 27.00	5.00 6.10 9.20 6.00 5.40	5.00 5.00 5.00 5.00 5.00	66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-04 4.49E-04 6.09E-04 4.41E-04 5.49E-04
	1.50 1.70 1.50	25.00 30.50 46.00 30.00	5.00 6.10 9.20 6.00	5.00 5.00 5.00 5.00	66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81	38.14 33.68 45.75 33.13 41.19	5.08E-04 4.49E-04 6.09E-04 4.41E-04 5.49E-04
	1.50 1.70 1.50 1.00	25.00 30.50 46.00 30.00 27.00	5.00 6.10 9.20 6.00 5.40	5.00 5.00 5.00 5.00 5.00	66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-04 4.49E-04 6.09E-04 4.41E-04 5.49E-04
	1.50 1.70 1.50 1.00	25.00 30.50 46.00 30.00 27.00	5.00 6.10 9.20 6.00 5.40	5.00 5.00 5.00 5.00 5.00	66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-04 4.49E-04 6.09E-04 4.41E-04 5.49E-04
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-04 4.49E-04 6.09E-04
	1.50 1.70 1.50 1.00 0.50	25.00 30.50 46.00 30.00 27.00 24.00	5.00 6.10 9.20 6.00 5.40 4.80	5.00 5.00 5.00 5.00 5.00 5.00	66 66 66 66 66	0.65 0.65 0.65 0.65 0.65	2.46 2.46 2.46 2.46 2.46	1.31 1.81 2.01 1.81 1.31	38.14 33.68 45.75 33.13 41.19 59.19	5.08E-0 4.49E-0 6.09E-0 4.41E-0 5.49E-0

	ORD (	OF WATE	R PRESSU	RE TEST	Н	OLE No.		BD-4		
DEPT	H(m):			'1-5						
								ya <b></b>	المستوارية والمستوارية والمستو	·
		JECTION				GAUGE			LUGEON	K-VALU
		IANTITY	. 1	LENGTH	DIA	HEIGHT	LEVEL	PRESS.		
Kg/cn	12 L	it / Min	Lit / Min/	m	mm	m_	<u>. m</u>	Kg / cm2		cm / sec
	==	44.00	7	4.00		A 22 P	0.00	0.00	04.40	T cor o
	50	11.00		4.00			3.00	0.88		4.00E-0
	00	18.00 24.00				0.75	3.00	1.38 1.88		4.16E-0
	50			4.00			3.00			4.07E-0
	00 50	33.00 25.00		4.00 4.00		0.75 0.75	3.00 3.00	2.38 1.88		4.42E-0
	00	20.00		4.00			3.00			4.63E-0
	50	15.00		4.00			3.00	0.88		5.45E-(
<del>  0.</del>	50	15.00	3.75	4.00	60	0.75	3.00	0.00	42.00	5.45E-C
ļ										<u> </u>
K-VAI	UE: C	OEFFICIE	NT OF PE	RMEABILI	TY			<del></del>	· · · · · · · · · · · · · · · · · · ·	
1	1			1111007 1207021	<del></del>					
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REC	ORD (	OF WATER	RPRESSU	RE TEST	H	OLE No.		BD-4		
DEPT				<b>'5-10</b>						
1					<del></del>	L ,				l
GAUG	E IN	JECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALU
PRES	S. QL	JANTITY		LENGTH		HEIGHT		PRESS.	VALUE	·····
Kg/cm	12 L	it / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
						<u> </u>				<b>-</b>
	00	4.00	0.80	5.00	66	0.75	4.20	1.50	5.35	7.13E-0
2.	00	16.00	3.20	5.00	66	0.75	4.20	2.50	12.83	1.71E-0
3.	00	22.00	4.40	5.00	66	0.75	4.20	3.50	12.59	1.68E-0
4.	00	40.00	8.00	5.00		0.75	4.20	4.50	17.80	2.37E-0
	00	24.00	4.80	5.00		0.75	4.20	3.50		1.83E-0
2.	00	17.00	3.40	5.00	66	0.75	4.20	2.50	13.63	1.81E-0
1.	00	7.00	1.40	5.00	66	0.75	4.20	1.50	9.36	1.25E-0
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100 3035					<u></u>					4
K-VAL	<u>.UE: C</u>	OEFFICIE	NT OF PE	RMEABILI	TV /				1	
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BEC	200	SE WATE	a appropri	DE TECT		OLE, No.				
		OF WATE	R PRESSU			OLE No.	:	BD-4		
REC(		OF WATE	R PRESSUI	RE TEST '10-15		OLE No.	:	BD-4		
DEPTI	H(m):		R PRESSU	'10-15	H				LUGEON	Κ-νΔι 11
DEPTI	H(m):	JECTION	R PRESSU	'10-15 TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALU
GAUG PRES	H(m): E  IN. S.  QU	JECTION JANTITY		'10-15 TEST LENGTH	HOLE DIA	GAUGE HEIGHT	WATER LEVEL	TEST PRESS.	VALUE	
DEPTI	H(m): E  IN. S.  QU	JECTION JANTITY	R PRESSUI	'10-15 TEST	HOLE	GAUGE	WATER	TEST	VALUE	
GAUG PRES: Kg/cm	H(m): iE  IN. S. QU n2 L	JECTION JANTITY it / Min	Lit / Min/	'10-15 TEST LENGTH m	HOLE DIA mm	GAUGE HEIGHT m	WATER LEVEL m	TEST PRESS. Kg / cm2	VALUE	cm / sed
GAUG PRESS Kg/cm	H(m): S. QU 12 L	JECTION JANTITY it / Min 3.00	Lit / Min/	'10-15 TEST LENGTH m 5.00	HOLE DIA mm	GAUGE HEIGHT m	WATER LEVEL m 4.20	TEST PRESS. Kg / cm2	VALUE 2.40	cm / sec
GAUG PRESS Kg/cm	H(m): S. QU 12 L 00	JECTION JANTITY it / Min 3.00 6.60	Lit / Min/ 0.60 1.32	'10-15 TEST LENGTH m 5.00 5.00	HOLE DIA mm	GAUGE HEIGHT m 0.75 0.75	WATER LEVEL m 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50	2.40 2.94	cm / sed 3.20E-0 3.91E-0
GAUG PRESS Kg/cm 2. 4.	H(m): S. QU 12 L 00 00	JECTION JANTITY it / Min 3.00 6.60 13.00	Lit / Min/ 0.60 1.32 2.60	'10-15  TEST LENGTH  m  5.00 5.00 5.00	HOLE DIA mm 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50	2.40 2.94 3.47	3.20E-0 3.91E-0 4.62E-0
GAUG PRESS Kg/cm 2. 4. 7.	H(m): E   IN. S. QU 12   L 00   00   00	JECTION JANTITY it / Min 3.00 6.60 13.00 17.60	Lit / Min/ 0.60 1.32 2.60 3.52	710-15 TEST LENGTH m 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50 10.50	2.40 2.94 3.47 3.35	3.20E-0 3.91E-0 4.62E-0 4.47E-0
GAUG PRESS Kg/cm 2. 4. 7. 10.	H(m): S. QU 12 L 00 00 00 00 00	JECTION JANTITY it / Min 3.00 6.60 13.00 17.60 14.00	0.60 1.32 2.60 3.52 2.80	'10-15  TEST  LENGTH  m  5.00  5.00  5.00  5.00  5.00	HOLE DIA mm 66 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50 10.50 7.50	2.40 2.94 3.47 3.35 3.74	3.20E-0 3.91E-0 4.62E-0 4.47E-0 4.98E-0
GAUG PRESS Kg/cm 2. 4. 7. 10. 7.	H(m):  E IN. S. QU 12 L 00 00 00 00 00 00	JECTION JANTITY it / Min 3.00 6.60 13.00 17.60 14.00 7.40	0.60 1.32 2.60 3.52 2.80 1.48	'10-15  TEST  LENGTH  m  5.00  5.00  5.00  5.00  5.00  5.00  5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50 10.50 7.50 4.50	2.40 2.94 3.47 3.35 3.74 3.29	3.20E-0 3.91E-0 4.62E-0 4.47E-0 4.98E-0 4.38E-0
GAUG PRESS Kg/cm 2. 4. 7. 10. 7.	H(m): S. QU 12 L 00 00 00 00 00	JECTION JANTITY it / Min 3.00 6.60 13.00 17.60 14.00	0.60 1.32 2.60 3.52 2.80 1.48	'10-15  TEST  LENGTH  m  5.00  5.00  5.00  5.00  5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50 10.50 7.50	2.40 2.94 3.47 3.35 3.74 3.29	3.20E-0 3.91E-0 4.62E-0 4.47E-0
GAUG PRESS Kg/cm 2. 4. 7. 10. 7.	H(m):  E IN. S. QU 12 L 00 00 00 00 00 00	JECTION JANTITY it / Min 3.00 6.60 13.00 17.60 14.00 7.40	0.60 1.32 2.60 3.52 2.80 1.48	'10-15  TEST  LENGTH  m  5.00  5.00  5.00  5.00  5.00  5.00  5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50 10.50 7.50 4.50	2.40 2.94 3.47 3.35 3.74 3.29	3.20E-( 3.91E-( 4.62E-( 4.47E-( 4.98E-( 4.38E-(
DEPTI GAUG PRESS Kg/cm 2. 4. 7. 10. 7.	H(m): E   IN. S.   QU 12   L 00   00   00   00   00   00   00	3.00 6.60 13.00 17.60 14.00 7.40 3.80	0.60 1.32 2.60 3.52 2.80 1.48	'10-15  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66 66	GAUGE HEIGHT m 0.75 0.75 0.75 0.75 0.75	WATER LEVEL m 4.20 4.20 4.20 4.20 4.20 4.20	TEST PRESS. Kg / cm2 2.50 4.50 7.50 10.50 7.50 4.50	2.40 2.94 3.47 3.35 3.74 3.29	3.20E-( 3.91E-( 4.62E-( 4.47E-( 4.98E-( 4.38E-(

RECOR	D OF WATER	PRESSI	AF TEST	Н	OLE No.	:	BD-4		
DEPTH(n			15-20	r	OLL 1101	ı <del></del>	00-4		<del> </del>
DEL HIII		L	10-20			l	<b></b>		L
CALICE	INJECTION		TEST	UATE	GAUGE	WATER	TEST	LUGEON	K-VAI
	QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	17-47-
MESS.	GUANTIT	lia / haim/				<del></del>			- / c
Kg/cm2	Lit / Min	Lit / Min/	m_	mm	m ·	m	Kg / cm2		cm/s
									T - 00F
2.00	0.12								1.28
4.00			5.00						4.98
7.00	2.20		5.00						7.82
10.00	4.00		5.00						1.02
7.00	2.20	0.44	5.00	-66	0.75	4.20	7.50		7.82E
4.00	0.85	0.17	5.00	66	0.75	4.20	4.50	0.38	5.04E
2.00	0.14		5.00						1.49
				1			<u> </u>	L	
		J							1
K-VALUE	: COEFFICIE	NT OF PE	RMEARILL	TV					
IV- TALUL	. 002, 10,2		THEADILI	, ,	<del></del>		<del> </del>		<del> </del>
				h			<del> </del>		<del> </del>
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<del></del>	RECOR	D OF WATER	PRESSII	RE TEST	H	OLE No.		BD-5		<u> </u>
	DEPTH(		T TIEOOO	1-5	· · · ·		r <del>.</del>	DD-0	<u></u>	
	DEI III		L		L	L	L	L	· .	1
	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
		QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	77.1202
	Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
	113/0112	A-10 / 144(11	( a-14 / 101111/		1 1331113		l	ING / CITE	<del>-</del>	tom t acc
	0.50	3.00	0.75	4.00	66	0.80	3.00	0.88	8.52	1.08E-04
	1.00	12.00	3.00		66		3.00	1.38		
	1.50	26.00			66					
	2.00	38.00	9.50		66					
	1.50	30.00	7.50		66					
	1.00	21.00	5.25	4.00	66					
	0.50	14.00	3.50		66					
·	0.50	14.00	3.50	4.00	60	0.60	3.00	0.00	39.77	3.06E-04
<u>.</u>	<u> </u>					<del>r</del>	<del>/</del>	<del>                                     </del>	T	<del>i</del>
	V VALUE	: COEFFICIE	NT OF DE	DARE ADDI	T3/	· · · · · · · · · · · · · · · · · · ·		ļ		ļ
	K-VALUE	: COEFFICIE	INI OF PE	HMEABILI	Y					
				<del>                                     </del>	<u> </u>	ļ	ļ	ļ		ļ
	<u> </u>		<u> </u>		ļ	ļ		ļ		ļ. · ·
					L		<u> </u>			
		D OF WATER	RPRESSU		Н	OLE No.	<u>;</u>	BD-5		
. 1	DEPTH(r	n):		'5-10						ļ
•						<del></del>		***************************************	<del></del>	
		INJECTION					WATER		LUGEON	K-VALUE
	PRESS.	QUANTITY		LENGTH	DIA	HEIGHT	LEVEL	PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	m .	mm	m	m	Kg / cm2	2	cm / sec
								<u> </u>		
-	1.00	1.10	0.22	5.00	66	0.80	7.50	1.83	1.20	1.60E-05
	2.00	3.40	0.68	5.00	66			2.83	2.40	
	3.00	5.00	1.00	5.00	66		7.50	3.83		
	4.00	12.00	2.40	5.00	66		7.50	4.83		
	3.00	7.00	1.40	5.00	66		7.50	3.83		
	2.00	5.00	1.00	5.00	66		7.50	2.83	3.53	
	1.00	3.20	0.64	5.00	66		7.50	1.83	3.50	
	1.00	0.20	0.04	0.00		0.00	7.50	1.00	0.00	4.00E-00
										·
<del>-</del>	K-VALUE	COEFFICIE	NT OF DE	DMEADILI	TV					
	IN-TALUL	. COLITIOIL	. IVI OI IL	LINENDICI	<u> </u>					
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	PECOP	D OF WATER	DDECCU	OF TEST	l	OLE No.	-	BD-5		
				10-15	П	OLE NO.		อบ-จ		
·	DEPTH(r	17.		10-15		L			·	<u> </u>
	CALICE	IN JECTION	·	7507		OALLOE	144677777	****		12 322 3 10
		INJECTION	·			GAUGE			LUGEON	K-VALUE
		QUANTITY	1 ** / 3 ** * /	LENGTH		HEIGHT	·	PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
	<del></del>									
	1.00	22.00	4.40	5.00	66			2.33		2.51E-04
i	2.00	29.00	5.80	5.00	66	0.80		3.33		2.32E-04
[	3.00	34.00	6.80	5.00	66		12.50	4.33		2.09E-04
	3.30	47.00	9.40	5.00	66		12.50	4.63	20.30	2.70E-04
	3.00	35.00	7.00	5.00	66	0.80	12.50	4.33		2.15E-04
	2.00	30.00	6.00	5.00	66		12.50	3.33		2.40E-04
	1.00	25.00	5.00	5.00	66		12.50	2.33		2.86E-04
			-					<u> </u>		
	K-VALUE	: COEFFICIE	NT OF PE	RMEARILI	TY					
		: : : : : :	<u>v. 1 –</u>		<u> </u>			1		

	D OF WATE	3 bbeceii	RE TECT	Li Li	OLE No.	L	BD-5	· · · · · · · · · · · · · · · · · · ·	<b> </b>
DEPTH(r		TITLOGO	15-20	<u> </u>	OLE NO.	· · · · · · · · · · · · · · · · · · ·	เมม-อ		
DEI IIIL	<del>''7'</del>	L	13-20	L	L	L	l	<u> </u>	J
GALIGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K.VAII
	QUANTITY		LENGTH			LEVEL	PRESS.	VALUE	11-17-1
Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm²		cm / se
1									1 7 111 1 1 1 1
2.00	4.00	0.80	5.00	66	0.80	13.15	3.40	2.36	3.14E-
4.00	6.00	1.20	5.00	66	0.80	13.15	5.40	2.22	2.96E-
7.00	12.00	2.40	5.00	66	0.80	13.15	8.40	2.86	3.81E-
10.00	27.00	5.40	5.00	66		13.15		4.74	
7.00	16.00		5.00	66		13.15	8.40		
4.00	11.00	2.20	5.00	66		13.15		4.08	
2.00	7.00	1.40	5.00	66	0.80	13.15	3.40	4.12	5.49E-
							·	<del> </del>	<del></del>
14 14 8 1 1 1 5	OOCHEIOIL								
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	IA					
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DECOR	D OF WATER	DDECCH	TE TECT		C) F A1-	L	DD #		
	D OF WATER	H PHESSU		H	OLE No.	<del>:</del>	BD-5		
DEPTH(r	п):		'20-25	:	L	L	<u> </u>	<u> </u>	
CALICE	INJECTION		TEST	NOLE.	CAUCE	WATER	TECT	LUCEON	16 MALL
	QUANTITY		LENGTH		HEIGHT	WATER		LUGEON	K-VALL
Kg/cm2		Lit / Min/			<del></del>		PRESS.	VALUE	
Ng/Ciliz	Fir / Milli	Tir / Milli/	m	mm	m	. m	Kg / cm2		cm / se
2.00	0.00	0.00	5.00	cc	0.00	1015	2.40	0.00	ииии
4.00	0.00	0.00	5.00	66 66		13.15 13.15	3.40 5.40		####
7.00	0.20	0.10	5.00	66		13.15	8.40	0.07 0.12	
10.00	1.20	0.10	5.00	66		13.15	11.40	0.12	1
7.00	0.60	0.12	5.00	66	0.80	13.15	8.40	0.21	
4.00	0.00	0.12	5.00	66	0.80	13.15	5.40	0.14	
2.00	0.20	0.00	5.00	66	0.80	13.15	3.40	0.07	
2.00	0.00	0.00	3.00	00	0.00	13.13	3.40	0.00	####
4									
1									· · · · · · · · · · · · · · · · · · ·
K-VALUE	· COFFEIGH	NT OF PE	RMFARII I	TV					
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	īΥ					
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ŢΥ					
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ΤΥ					
					OLE No.	•	BD-5		
RECOR	D OF WATER		RE TEST		OLE No.	•	BD-5		
	D OF WATER				OLE No.	:	BD-5		
RECOR DEPTH(n	D OF WATER		RE TEST '25-30	H	OLE No.			LUGEON	K-VALU
RECOR DEPTH(n GAUGE PRESS.	D OF WATER		RE TEST '25-30	H(	:	WATER		LUGEON VALUE	K-VALL
RECOR DEPTH(n	D OF WATER n): INJECTION QUANTITY		RE TEST '25-30	H(	GAUGE	WATER	TEST	VALUE	
RECOR DEPTH(n GAUGE PRESS. Kg/cm2	D OF WATER n): INJECTION QUANTITY Lit / Min	R PRESSUI	RE TEST '25-30 TEST LENGTH	HOLE DIA	GAUGE HEIGHT	WATER LEVEL	TEST PRESS.	VALUE	
RECOR DEPTH(n GAUGE PRESS. Kg/cm2	D OF WATER  n):  INJECTION  QUANTITY  Lit / Min  0.00	PRESSUI	RE TEST '25-30 TEST LENGTH	HOLE DIA	GAUGE HEIGHT m	WATER LEVEL	TEST PRESS. Kg / cm2	VALUE	cm / se
RECOR DEPTH(n GAUGE PRESS. Kg/cm2	D OF WATER  INJECTION QUANTITY Lit / Min  0.00 0.00	PRESSUI	RE TEST '25-30 TEST LENGTH m	HOLE DIA mm	GAUGE HEIGHT m	WATER LEVEL m 13.15 13.15	TEST PRESS. Kg / cm2	0.00	cm / se
RECOR DEPTH(n GAUGE PRESS. Kg/cm2	D OF WATER  INJECTION QUANTITY Lit / Min  0.00 0.00 0.30	PRESSUI	RE TEST '25-30  TEST LENGTH m 5.00	HOLE DIA mm	GAUGE HEIGHT m	WATER LEVEL m	TEST PRESS. Kg / cm2	0.00 0.00	cm / se ####
RECOR DEPTH(n GAUGE PRESS. Kg/cm2 2.00 4.00 7.00 10.00	D OF WATER  INJECTION QUANTITY Lit / Min  0.00 0.00 0.30 0.60	PRESSUI Lit / Min/ 0.00 0.00 0.06 0.12	TEST '25-30 TEST LENGTH m 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66	GAUGE HEIGHT m 0.80	WATER LEVEL m 13.15 13.15	TEST PRESS. Kg / cm2 3.40 5.40	0.00 0.00 0.07	cm / se #### #### 9.52E-
RECOR DEPTH(n GAUGE PRESS. Kg/cm2 2.00 4.00 7.00 10.00 7.00	D OF WATER  INJECTION QUANTITY Lit / Min  0.00 0.00 0.30 0.60 0.20	Dit / Min/ 0.00 0.00 0.06 0.12 0.04	TEST '25-30  TEST LENGTH m  5.00  5.00  5.00  5.00  5.00	HOLE DIA mm 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80	WATER LEVEL m 13.15 13.15 13.15 13.15	TEST PRESS. Kg / cm2 3.40 5.40 8.40 11.40 8.40	0.00 0.00 0.07 0.11 0.05	#### #### 9.52E-1 1.40E-1 6.35E-1
RECOR DEPTH(n GAUGE PRESS. Kg/cm2 2.00 4.00 7.00 10.00 7.00 4.00	D OF WATER  INJECTION QUANTITY Lit / Min  0.00 0.00 0.30 0.60 0.20 0.00	Dit / Min/ 0.00 0.00 0.06 0.12 0.04 0.00	TEST '25-30 TEST LENGTH m 5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80	WATER LEVEL m 13.15 13.15 13.15 13.15 13.15	TEST PRESS. Kg / cm2 3.40 5.40 8.40 11.40 8.40 5.40	0.00 0.00 0.07 0.11 0.05	#### #### 9.52E
RECOR DEPTH(n GAUGE PRESS. Kg/cm2 2.00 4.00 7.00 10.00 7.00	D OF WATER  INJECTION QUANTITY Lit / Min  0.00 0.00 0.30 0.60 0.20	Dit / Min/ 0.00 0.00 0.06 0.12 0.04	TEST '25-30  TEST LENGTH m  5.00  5.00  5.00  5.00  5.00	HOLE DIA mm 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80	WATER LEVEL m 13.15 13.15 13.15 13.15	TEST PRESS. Kg / cm2 3.40 5.40 8.40 11.40 8.40	0.00 0.00 0.07 0.11 0.05 0.00	#### #### 9.52E- 1.40E- 6.35E-

	RECOR	D OF WATE	R PRESSU	RE TEST	Н	OLE No.		BD-6	,	
	DEPTH(r	n):		'2-5		<u> </u>				
_	***************************************		·	,	· · · · · · · · · · · · · · · · · · ·		T			
		INJECTION					WATER		LUGEON	K-VALU
		QUANTITY	1 1 1 1 1 1 1	LENGTH		HEIGHT		PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	<u> </u>	mm	<u>  m</u>	m	Kg / cm²	<u> </u>	cm / sec
	0.50	1.20	0.40	3.00	66	0.90	1.45	0.74	5.44	6.51E-0
	1.00									1.16E-0
	1.50			3.00						1.56E-0
	2.00	11.00		3.00						1.96E-0
	1.50	7.00		3.00	66				13.45	1.61E-0
-	1.00	3.50		3.00						1.13E-0
	0.50	1.30		3.00	66					7.05E-0
٦				<u> </u>	! <del>-</del>	<del></del>		<u> </u>	L	<u> </u>
_	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ΤΥ					
										<u> </u>
										<u> </u>
		D OF WATE	RPRESSU		Н	OLE No.	<u>.</u>	BD-6		
_	DEPTH(r	n):	<u>L</u> _	'5-10	l	: .		L		1
_	CAUCE	INJECTION		TEST	UOLE	CAUCE	WATER	TECT	LUGEON	IV VALU
		QUANTITY		LENGTH		HEIGHT		PRESS.		IV-AUTO
_		Lit / Min	Lit / Min/					Kg / cm2		cm / sec
_	Ng/Ciliz	Cir / Milli	En / Willi	m _	mm	l m	m	Ny / Citiz	<u> </u>	Cill / Sei
	1.00	0.20	0.04	5.00	66	0.90	1.45	1.24	0.32	4.31E-0
-	2.00	0.30		5.00	66		1.45	2.24		3.58E-0
	4.00	0.50		5.00	66		1.45	4.24		3.14E-0
1	6.00	1.20		5.00	66		1.45	6.24		5.13E-0
	4.00	0.60		5.00	66		1.45	4.24		3.77E-0
	2.00	0.30	0.06	5.00	. 66		1.45	2.24		3.58E-0
	1.00	0.20	0.04	5.00	66		1.45	1.24		4.31E-0
										i
1	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
_							<b>-</b>			!
_										<u> </u>
4	DEOOD	D OF WATER	Nocoout			<u> </u>		55.4		<u> </u>
-		D OF WATER	1 PRESSU		H	OLE No.	:	BD-6		ļ
-	DEPTH(r	11):	L, <u></u>	'10-15		L <u> </u>			<u> </u>	l
-	CALICE	INJECTION		TEST	HOLE	CAUCE	WATER	TECT	LUGEON	K WALL
1		QUANTITY		LENGTH		HEIGHT		PRESS.		IN-YALU
+	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
1	119/01/12	E10 / 101111	POL 1 1111111		111111	113		itg / onia	<u>'</u>	(OIII / OC
1	2.00	0.00	0.00	5.00	66	0.90	1.45	2.24	0.00	####
1	4.00	0.00		5.00	66		1.45	4.24		####
1	7.00	0.20		5.00	- 66	0.90	1.45	7.24		7.36E-0
1	10.00	0.60		5.00	66	0.90		10.24		1.56E-0
1	7.00	0.10		5.00	66		1.45	7.24		3.68E-0
1	4.00	0.00		5.00	66		1.45	4.24		####
]	2.00	0.00	0.00	5.00	66		1.45	2.24		####
]										
	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
ĺ										

RECORD OF WATER PRESSURE TEST HOLE No. : BD-6 DEPTH(m): 15-20 GAUGE INJECTION PRESS. QUANTITY Kg/cm2 Lit / Min TEST HOLE GAUGE WATER | TEST LUGEON K-VALUE LENGTH DIA HEIGHT LEVEL PRESS. VALUE Lit / Min/ Kg / cm2 cm / sec m mm m m 0.00 ##### 0.00 ##### 0.22 2.95E-06 0.00 0.00 2.24 2.00 5.00 66 0.90 1.45 4.00 0.00 0.00 5.00 66 0.90 1.45 4.24 7.00 0.16 7.24 0.80 5.00 66 0.90 1.45 0.31 4.16E-06 10.00 1.60 0.32 5.00 0.90 1.45 10.24 66 1.45 0.22 2.95E-06 7.00 0.16 7.24 0.80 5.00 66 0.90 0.00 ##### 4.00 0.00 0.00 5.00 1.45 4.24 66 0.90 1.45 0.00 ##### 2.00 0.00 0.00 5.00 66 0.90 2.24 K-VALUE: COEFFICIENT OF PERMEABILITY

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 L RECOR	D OF WATE	R PRESSU	RE TEST	Н	OLE No.	•	BD-7		
 DEPTH(			0.5-5	T	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
 1		1				<u> </u>	l	L	L.,
 GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
	QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	
Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
 1							1		1
 0.50	3.00	0.67	4.50	66	0.50	2.00	0.75	8.89	1.16E-04
 1.00			4.50				1.25		
 1.50			4.50				1.75		
 1.70									
 1.50									6.62E-04
 1.00			4.50						6.95E-04
 0.50				66					8.50E-04
 1			1.00		0.00	2.00	0.70	00.10	0.000-0-
 <b> </b>	I	<u> </u>				<u> </u>	l	i	i
 K-VALUE	: COEFFICIE	NT OF PE	BMEABILL	TY					<del> </del>
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 <del> </del>	<b></b>	<del> </del>							
 RECOE	D OF WATE	DRESSIII	DE TEST		OLE No.		BD-7		
 DEPTH(		1112330	5-10		OLL NO.		DD-7		<del> </del>
 DET 111(	117.	I	3-10	L	L	l	L <u></u>	l <u></u>	L
 CAUGE	INJECTION	ī .	TEST	HOLE	GAUGE	WATED	TECT	LUGEON	K VALUE
	QUANTITY		LENGTH		HEIGHT		PRESS.		K-VALUE
 Kg/cm2	Lit / Min	Lit / Min/	m	mm	<del> </del>				/
 Rg/cmz	Tit / Milli	Lis / Intill	111	111111	m	m	Kg / cm2	<u> </u>	cm / sec
 2.00	0.00	0.00	5.00	66	0.50	2.00	2.05	0.00	
 4.00			5.00	66			2.25		#####
						2.00	4.25		#####
 7.00			5.00	66		2.00			#####
 10.00	0.20	0.04	5.00	66	0.50	2.00	10.25		5.20E-07
 7.00	0.00	0.00	5.00	66	0.50	2.00	7.25		#####
 4.00	0.00	0.00	5.00	66		2.00	4.25		#####
 2.00	0.00	0.00	5.00	66	0.50	2.00	2.25	0.00	#####
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17 3/8: 115	OOFFERON	L AF NE		T) /					
 K-VALUE	: COEFFICIE	NI OF PE	HMEABILI	ΙΥ					
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 DE005	D 05 114 25								
	D OF WATER	T PHESSU		Н	OLE No.	:	BD-7		··· <del>-</del> <del></del>
 DEPTH(r	ກ):	·	10-15	:					
 CAUGE	MIFOTON			1101 =		1418		1 (10=0::	62'52 E2
	INJECTION	·			GAUGE			LUGEON	K-VALUE
 <del></del>	QUANTITY	1 16 / 841 /	LENGTH		HEIGHT	***	PRESS.		<del></del>
Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	<u> </u>	Kg / cm2		cm / sec
 2.00		0.84	5.00	66	0.50	3.70	2.42		4.62E-05
 4.00	12.30	2.46	5.00	66	0.50	3.70	4.42		7.41E-05
 7.00		5.80	5.00	66	0.50	3.70	7.42		1.04E-04
 10.00	47.00	9.40	5.00	66	0.50	3.70	10.42		1.20E-04
 7.00	30.00	6.00	5.00	66	0.50	3.70	7.42		1.08E-04
4.00	18.00	3.60	5.00	66	0.50	3.70	4.42	8.14	1.08E-04
2.00	6.00	1.20	5.00	66	0.50	3.70	2.42	4.96	6.60E-05
 K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ΓY					

RECORD OF WATER PRESSURE TEST HOLE GAUGE WATER TEST LUGEON K K-VALUE: COEFFICIENT OF PERMEABILITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE   COEFFICIENT OF PERMEABILITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE   COEFFICIENT OF PERMEABILITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE   COEFFICIENT OF PERMEABILITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE   COEFFICIENT OF PERMEABILITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE   COEFFICIENT OF PERMEABILITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE   COEFFICIENT OF PERMEABILITY	###; ###; 9.16E ###; ###;
DEPTH(m):	###; ###; 9.16E ###; ###;
RECORD OF WATER PRESSURE TEST   HOLE   GAUGE   WATER   TEST   LUGEON   K-VALUE   COEFFICIENT OF PERMEABILITY   LENGTH   DIA   HEIGHT   LEVEL   PRESS.   VALUE   VALU	###; ###; 9.16E ###; ###;
PRESS	###; ###; 9.16E ###; ###;
PRESS	###; ###; 9.16E ###; ###;
Kg/cm2	###; ###; 9.16E ###; ###;
## A.00	###; 9.16E ###; ###;
## A.00	###; 9.16E ###; ###;
7.00	###; 9.16E ###; ###;
10.00	9.16E ###; ###;
7.00	###; ###; 
4.00	###;
2.00	###;
RECORD OF WATER PRESSURE TEST HOLE No. : BD-7 DEPTH(m): 19-20   BD-7  GAUGE INJECTION   TEST HOLE GAUGE WATER TEST LUGEON K PRESS. QUANTITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE K Kg/cm2 Lit / Min Lit / Min/ m mm m Kg / cm2   ci  0.50 34.00 34.00 1.00 66 0.50 3.70 0.92 369.57 3 1.00 46.00 46.00 1.00 66 0.50 3.70 1.42 323.94 2 0.50 35.00 35.00 1.00 66 0.50 3.70 0.92 380.43 3	- G-VAL
RECORD OF WATER PRESSURE TEST HOLE No. : BD-7 DEPTH(m): 19-20   BD-7  GAUGE INJECTION   TEST HOLE GAUGE WATER TEST LUGEON K PRESS. QUANTITY   LENGTH DIA HEIGHT LEVEL PRESS. VALUE Kg/cm2 Lit / Min Lit / Min/ m mm m Kg / cm2 cr  0.50 34.00 34.00 1.00 66 0.50 3.70 0.92 369.57 3 1.00 46.00 46.00 1.00 66 0.50 3.70 1.42 323.94 2 0.50 35.00 35.00 1.00 66 0.50 3.70 0.92 380.43 3	(-VAL
DEPTH(m):   19-20	(-VAL
PRESS. QUANTITY   LENGTH   DIA   HEIGHT   LEVEL   PRESS.   VALUE   Kg/cm2   Lit / Min   Lit / Min   m   m   m   Kg / cm2   ci    0.50   34.00   34.00   1.00   66   0.50   3.70   0.92   369.57   3  1.00   46.00   46.00   1.00   66   0.50   3.70   1.42   323.94   2  0.50   35.00   35.00   1.00   66   0.50   3.70   0.92   380.43   3  K-VALUE: COEFFICIENT OF PERMEABILITY	(-VAL
PRESS. QUANTITY   LENGTH   DIA   HEIGHT   LEVEL   PRESS.   VALUE   Kg/cm2   Lit / Min   Lit / Min   m   m   m   Kg / cm2   ci    0.50   34.00   34.00   1.00   66   0.50   3.70   0.92   369.57   3  1.00   46.00   46.00   1.00   66   0.50   3.70   1.42   323.94   2  0.50   35.00   35.00   1.00   66   0.50   3.70   0.92   380.43   3  K-VALUE: COEFFICIENT OF PERMEABILITY	-VAL
Kg/cm2         Lit / Min         Lit / Min/         m         mm         m         Kg / cm2         cr           0.50         34.00         34.00         1.00         66         0.50         3.70         0.92         369.57         3           1.00         46.00         46.00         1.00         66         0.50         3.70         1.42         323.94         2           0.50         35.00         35.00         1.00         66         0.50         3.70         0.92         380.43         3	
0.50 34.00 34.00 1.00 66 0.50 3.70 0.92 369.57 3 1.00 46.00 46.00 1.00 66 0.50 3.70 1.42 323.94 2 0.50 35.00 35.00 1.00 66 0.50 3.70 0.92 380.43 3	m/s
1.00 46.00 46.00 1.00 66 0.50 3.70 1.42 323.94 2 0.50 35.00 35.00 1.00 66 0.50 3.70 0.92 380.43 3	, 0
0.50 35.00 35.00 1.00 66 0.50 3.70 0.92 380.43 3	
K-VALUE: COEFFICIENT OF PERMEABILITY	
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BECO	RD OF WATE	R PRESSU	BE TEST	Н	OLE No.	•	BD-8	<u> </u>	<u> </u>
	(m):	1	2-5	,	110.	r <b>-</b>	DD-0		
		L	L <u>= v</u>	L	<u> </u>	L	l	L	ł
GAUGE	INJECTION	1	TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALU
	QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	
		Lit / Min/	m	mm	m	m	Kg / cm ²		cm / see
	2272 / 30100	1-11-7 1011117	1	1 331111			119 / 01112		01117 000
0.50	1.20	0.40	3.00	66	0.75	2.55	0.83	4.82	5.77E-0
1.00				66		1.45			8.39E-0
1.50				66					8.50E-0
2.00				66					9.28E-0
1.50				66					9.19E-0
1.00			3.00			1.45			8.72E-0
0.50								6.25	7.60E-0
0.50	<u> 1.40</u>	0.47	3.00	66	0.90	1.45	0.74	0.35	7.605-0
	1		<del></del>	<del>.</del>	<del>                                     </del>		<del></del> -	<u></u>	<del></del>
L VALU	F. COFFEIGH	NT OF DE	DRAF AFOR	7737					
K-VALU	E: COEFFICIE	INI OF PE	HIVEABILI	1 7				<u> </u>	
<b>_</b>		<u> </u>						<u> </u>	
				L	<u> </u>	<u> </u>			
	RD OF WATE	R PRESSU	<del>,</del>	Н	OLE No.	:	BD-8	<u> </u>	
DEPTH(	m):		'5-10	<u>L</u>				<u> </u>	
			<del></del>	,				<del></del>	
	INJECTION				GAUGE			LUGEON	K-VALU
	QUANTITY		LENGTH	DIA	HEIGHT	LEVEL	PRESS.		
Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2	2	cm / se
1.00	0.20	0.04	5.00	66	0.75	2.55	1.33	0.30	4.01E-0
2.00	0.60	0.12	5.00	66	0.75	2.55	2.33	0.52	6.86E-0
4.00	0.80			66		2.55			4.92E-0
6.00			5.00	66		2.55	6.33		5.89E-(
4.00		0.18	5.00	66		2.55			5.54E-0
2.00		0.12				2.55			6.86E-0
1.00			5.00	66		2.55	1.33		4.01E-0
					01.0			0.00	
				<u> </u>					
K-VALU	E: COEFFICIE	NT OF PE	RMEABILI	TY					
11111111				<u> </u>					:
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	<del> </del>								
BECOE	OF WATER	PRESSUI	RE TEST	H	OLE No.		BD-8		
DEPTH(		111111111111111111111111111111111111111	10-15	<del>::</del>	OLL NO.	•	DD-0		
DE: 1111	!!!/:		10-13	l	l			<u> </u>	
GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALII
	QUANTITY		LENGTH		HEIGHT		PRESS.		IN-VALO
Kg/cm2		Lit / Min/					Kg / cm2		000 / 000
Ng/CIIIZ	LIC / INSEE	ETC / SALLIA	m	mm	. m	m	Ny / Ciliz	<u> </u>	cm / se
2.00	0.00	0.00	E 00	66	0.75	A FE	0.00	0.00	и и и и и
		0.00	5.00	66		2.55	2.33		####;
4.00		0.00	5.00	66		2.55	4.33		####;
7.00	I	0.02	5.00	66	0.75	2.55	7.33		3.63E-0
10.00		0.06	5.00	66	0.75	2.55	10.33		7.74E-(
7.00	<del></del>	0.02	5.00	66	0.75	2.55	7.33	<del> </del>	
4.00	·	0.00	5.00	66		2.55	4.33		####
2.00	0.00	0.00	5.00	66	0.75	2.55	2.33	0.00	####
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K-VALU	E: COEFFICIE	NT OF PE	RMEABILI	TY					
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	BECOE	D OF WATER	PRESSI	DE TEST	<u> </u>	OLE No.		BD-8		
	DEPTH(r			15-20	···	OLL 110.	r <b>.</b>	DD-0	<u> </u>	<b></b>
				10 40	I	L.,	1	L	L	L
	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
	PRESS.	QUANTITY		LENGTH		HEIGHT		PRESS.		
_			Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
7.					<u> </u>		1	· · · · · · · · · · · · · · · · · · ·		L
	2.00		0.00	5.00	66	0.75	2.55	2.33	0.00	#####
	4.00		0.00	5.00	-66	0.75				#####
	7.00		0.00	5.00	66	0.75				#####
	10.00			5.00	66	0.75				5.16E-0
	7.00		0.00	5.00	66					#####
	4.00		0.00	5.00	66				0.00	#####
	2.00	0.00	0.00	5.00	66	0.75	2.55	2.33	0.00	#####
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	12 3281 CIE	COFFERIOR	NT OF DE	DA IPA DILI	<u> </u>					
	K-VALUE	: COEFFICIE	NIOFPE	KWEABILI	14					<u> </u>
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RECOR	D OF WATER	RPRESSU	RE TEST	Н	OLE No.		BD-9		
DEPTH(			17-20						
1									
GAUGE	INJECTION		TEST		GAUGE			LUGEON	K-VALUE
PRESS.	QUANTITY		LENGTH	DIA	HEIGHT	LEVEL	PRESS.	VALUE	
Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2	1	cm / sec
								0	
2.00	0.00	0.00	3.00	66	1.00	2.00	2.30	0.00	#####
4.00	0.60	0.20	3.00	66	1.00	2.00	4.30	0.47	5.56E-06
7.00	1.60	0.53	3.00	66	1.00	2.00	7.30	0.73	8.74E-06
10.00	2.30	0.77	3.00	66	1.00	2.00	10.30	0.74	8.90E-06
7.00	1.50	0.50	3.00	66	1.00	2.00	7.30	0.68	8.19E-06
4.00	0.50	0.17	3.00	66	1.00	2.00	4.30	0.39	4.64E-06
2.00	0.00	0.00	3.00	66	1.00	2.00	2.30	0.00	#####
		100		I					·
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
		I	l .						
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+			<del></del>						
BECOR	D OF WATER	PRESSII	RE TEST	Н	OLE No.	٠	BD-9		
DEPTH(r		111111000	20-25		OLL IVO.	<del></del>	DD-3		
DEFIN	117.		20-25	L <u></u>		<u> </u>	L		<u> </u>
CALICE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
PRESS	QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	K-VALUE
		Lit / Min/	·				<del> </del>	<u> </u>	cm / sec
Kg/cm2	Lit / Min	Lit / Willi	m	mm	<u> </u>	m	Kg / cm2	<u> </u>	cin/sec
	0.00	0.00	F 00		1 00	0.00	0.40	0.00	#####
2.00	0.00	0.00	5.00	66	1.00	3.60	2.46		<u></u>
4.00	1.00		5.00	66	1.00	3.60	4.46		
7.00	1.40		5.00	66	1.00	3.60	7.46		5.00E-06
10.00	2.20		5.00	66	1.00	3.60	10.46		5.60E-06
7.00	1.20		5.00	66	1.00	3.60	7.46		4.28E-06
4.00	1.00		5.00	66	1.00	3.60	4.46		5.97E-0
2.00	0.00	0.00	5.00	66	1.00	3.60	2.46	0.00	#####
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14 34 4 1 1 1 1	COPPEIGIF		DIE ADUI						
K-VALUE	: COEFFICIE	NI OF PE	HWEABILI	1 Y			<u></u>		
<del></del>	D OF WATER	RPRESSU		H	OLE No.	:	BD-9	4 1 0	
DEPTH(r	n):	:	25-30			:			
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	INJECTION	:	TEST		GAUGE			LUGEON	K-VALUE
PRESS.	QUANTITY		LENGTH	DIA	HEIGHT	LEVEL	PRESS.	VALUE	
Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
2.00	2.30	0.46	5.00	66	1.00	4.20	2.52	1.83	2.43E-05
4.00	4.60		5.00				4.52		2.71E-0
7.00	14.40			66			7.52		5.10E-0
10.00	24.80			66		4.20	10.52		
7.00	18.80			66		4.20	7.52		6.66E-0
4.00	8.40					4.20	4.52		
2.00	5.00		5.00	66		4.20	2.52	3.97	
2.00	3.00	1.00	3.00	00	1.00	4.20	2.02	0.97	J.201-0
					<u> </u>		<u>'</u>		
KVALUE	: COEFFICIE	NT OF DE	DMCABILI	TV			<u> </u>		
IN-VALUE	COEFFICIE	IN OF FE	CHALLADILI	2 1					
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RECOF	D OF WATER	PRESSU	RE TEST	Н	OLE No.	:	BD-9		***************************************
DEPTH(	m):		30-35						
OAUGE	IN IFOTION	TO SECURITE STORE CAN ADVISOR OF		LIALE	loauor	NACATEEN	777	LUOFON	UZ VALI
DDECC	INJECTION QUANTITY		TEST LENGTH	HOLE	GAUGE HEIGHT	WAIER	PRESS.	LUGEON	K-VALU
Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2		cm / se
Ttg/oniz	1 2107 101117	L10 / 1015(1)	1			1	itg / citiz	•	10111 30
0.50		6.40					2.80	22.86	3.04E-
1.00		9.40						28.48	3.79E-
0.50	36.00	7.20	5.00	66	1.00	22.00	2.80	25.71	3.42E-
	<del>                                     </del>				ļ				,
				<u> </u>					
12 (18) 115	OCCCCION	NT OF DE	DARE ADUL				<u> </u>		
K-VALUE	: COEFFICIE	NIUFPE	HMEABILI	1 Y				<u> </u>	
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-	RECOR	D OF WATE	R PRESSU	RE TEST	Н	OLE No.		BW-11		
	DEPTH(r		_	'5-10	<u> </u>					
		INJECTION				GAUGE			LUGEON	K-VALUE
		QUANTITY		LENGTH	DIA	HEIGHT	LEVEL	PRESS.	VALUE	
_	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2	) 	cm / sec
				-	·					
	4.00	0.00			66		2.30	4.28		#####
	6.00		1		66		2.30		0.01	
	8.00	0.03			66					
	10.00	0.05		5.00	66					1.30E-0
_	8.00	0.04		5.00	66					1.29E-0
	6.00	0.00								#####
	4.00	0.00	0.00	5.00	66	0.50	2.30	4.28	0.00	#####
			<del>  100   10   10   10   10   10   10   1</del>		<del></del>					
_	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
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					L		<u></u>			
_		D OF WATE	RPRESSU		. Н	OLE No.		BW-11		
_	DEPTH(r	n):		'10-15	:					<u> </u>
			,							<del></del>
		INJECTION				GAUGE			LUGEON	K-VALUI
_		QUANTITY		LENGTH	<del> </del>	HEIGHT	LEVEL.	PRESS.	VALUE	
_	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m_	m	Kg / cm2		cm / sec
			,							
	4.00	0.00								#####
. !	5.00	0.10						5.29		5.04E-0
٠	6.00	0.12		5.00	66		2.30			5.09E-0
	10.00	0.16		5.00	66		2.30	10.29		4.14E-0
	6.00	0.08		5.00	66		2.30	6.29		3.39E-0
	5.00	0.06		5.00	66					3.02E-0
	4.00	0.00	0.00	5.00	66	0.55	2.30	4.29	0.00	#####
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						·				
_	K-VALUE	: COEFFICIE	NI OF PE	RMEABILI	1 Y					
				<u> </u>						
_	DECOR	D 05 WARE					L	DW 44		
_		D OF WATER	RESSU		Н	OLE No.	;	BW-11		
_	DEPTH(r	n):	<u> </u>	'15-20	l	<u> </u>	L	<u> </u>	L	L
_	0 A 11 O E	ID IEOZIONI		~~~		041105	WATER	TEO.	LUGEAN	12 3761 111
_		INJECTION				GAUGE			LUGEON	K-VALUE
_		QUANTITY	1 ** 2 8 8 * .	LENGTH		HEIGHT		PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	m	mm	ា	m	Kg / cm2	<u> </u>	cm / sec
_										T
_	2.00	0.00	0.00	5.00						#####
_	4.00	0.00		5.00	66		2.30			#####
_	7.00	0.14		5.00	66		2.30	7.29	0.04	
_	10.00	0.16		5.00	- 66		2.30	10.29		4.14E-0
	7.00	0.12		5.00		<del></del>	2.30	7.29		4.39E-0
_[	4.00	0.04		5.00			2.30	4.29		2.49E-0
	2.00	0.00	0.00	5.00	66	0.55	2.30	2.29	0.00	#####
	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	ŢΥ					

	DECOD	D OF WATE	p ppreeu	DE TECT	11	ALE No		IBM 44		
	DEPTH(r		n Phessu		, n	OLE No.		BW-11	<u> </u>	
	DEPIN	n);		'20-25	L	<u> </u>		L	<u> </u>	
	531155	list morton	·y							
		INJECTION				GAUGE		TEST	LUGEON	K-VALUE
		QUANTITY		LENGTH	<del>}</del>	HEIGHT	LEVEL	PRESS.	VALUE	
	Kg/cm2	Lit / Min	Lit / Min/	m	mm	· m	m	Kg / cm2	?	cm / sec
	2.00	0.00	0.00	5.00	66	0.55	2.30	2.29	0.00	#####
	4.00	0.00	0.00	5.00	66	0.55	2.30			#####
	7.00	0.06	0.01	5.00			2.30			
	10.00	0.09		5.00			2.30	10.29	0.02	
	7.00	0.07		5.00			2.30			
_	4.00	0.00		5.00	66		2.30			#####
	2.00	0.00		5.00	66	0.55	2.30	2.29		
	2.00	0.00	0.00	5.00	00	0.55	2.30	2.29	0.00	#####
			<del>,</del>	<del>,</del>	سسسب				<del>/</del>	
	12 1287 115	OOFFEIOI							·	
	K-VALUE	: COEFFICIE	ENT OF PE	RMEABILI	TY					
		light is a second								
						,	:			
	RECOR	D OF WATE	R PRESSUI	RE TEST	H	OLE No.	:	BW-11		
	DEPTH(r	n):		25-30						
-			<u> </u>		L			L		<u> </u>
-	GALIGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	KVALUE
		QUANTITY		LENGTH		HEIGHT		PRESS.	VALUE	IV-AWFOF
	Kg/cm2		Lit / Min/				<del>~~~~~~~</del> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
	Ng/Cinz	LIC / IVIII	ETT / IVIIII/	m	mm	m .	m	Kg / cm2		cm / sec
							· · · · · · · · · · · · · · · · · · ·			<del></del>
_	2.00	2.20	0.44	5.00	66	0.55	2.30			2.56E-05
_	4.00	5.00		5.00	66	0.55	2.30	4.29		3.11E-05
	7.00	10.00		5.00	66	0.55	2.30	7.29		
l	10.00	18.40	3.68	5.00	66	0.55	2.30	10.29	3.58	4.77E-05
	7.00	10.20	2.04	5.00	66	0.55	2.30	7.29	2.80	3.73E-05
	4.00		4 00	F 00			0.00			
$\neg$	7.00	5.00	1.00	5.00	99	0.55	2.30	4.29	2.33	3.11E-05
-			1.00 0.46	5.00 5.00	66 66	0.55 0.55	2.30	4.29 2.29		
- 1	2.00	5.00 2.30	0.46	5.00	66	0.55 0.55	2.30	4.29 2.29	2.33 2.01	
$\dashv$										
_	2.00	2.30	0.46	5.00	66					
	2.00		0.46	5.00	66					
	2.00	2.30	0.46	5.00	66					
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66					
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			
	2.00	2.30	0.46	5.00	66		2.30			3.11E-05 2.68E-05

	D OF WATER	RPRESSU		Н	OLE No.	:	BD-16		
DEPTH(r	n):		'1-5		<u> </u>			.,	l
									1.2
	INJECTION	in an annual manna			GAUGE			LUGEON	K-VALU
	QUANTITY		LENGTH	<del></del>	HEIGHT		PRESS.	VALUE	ļ
Kg/cm2	Lit / Min	Lit / Min/	<u> </u>	mm	m	m	Kg / cm ²	<u> </u>	cm / sec
0.50	1.50	0.38	4.00	66	0.80	3.00	0.88	1 26	5.42E-0
						3.00	1.38		9.22E-(
1.00		1.00							1.29E-0
1.50						3.00			2.41E-0
2.00			4.00	66					1.35E-0
1.50		2.00	4.00			3.00 3.00			9.91E-0
1.00		1.08							7.23E-
0.50	2.00	0.50	4.00	66	0.80	3.00	0.88	5.08	7.23E-
					ı				<del></del>
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
   DECC:	D OF WATER	DDCCC	DE YEOY	<u> </u>	OLE No.	l <u></u>	DD 40		
	D OF WATER	י רתבסטטו		H	ULE NO.	<del>:</del>	BD-16		
DEPTH(r	n):		'5-10	L	L		L	l <u>,</u>	L
GAUGE	INJECTION	<del></del>	TEST	HOLE	GAUGE	WATER	TEST	LUGEON	Κ-VΔΙ Ι
	QUANTITY		LENGTH		HEIGHT		PRESS.		
Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2	<del></del>	cm / se
rtg/cmz	[ k-14 / 191111 ]	Tic / Mills	111	181881	3118		ing / oniz	<u> </u>	01117 00
0.50	2.20	0.44	5.00	66	0.80	7.50	1.33	3.31	4.41E-
1.00						7.50			8.73E-0
1.50	12.00	2.40		66		7.50			1.37E-0
2.00	21.00	4.20	5.00	66		7.50			1.98E-0
1.50	12.50	2.50	5.00			7.50			1.43E-0
1.00		1.40	5.00						1.02E-0
0.50	3.20		5.00	66		7.50			6.41E-0
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					-
									ļ
ļ		<u>-</u>				· · ·	<u> </u>		
RECOR	D OF WATER	PRESSU	RE TEST	Н	OLE No.	•	BD-16		
DEPTH(r			10-15						
									T-2
	INJECTION		TEST		GAUGE			LUGEON	K-VALU
	QUANTITY	1 2 / 8 2 7	LENGTH		HEIGHT		PRESS.	VALUE	and I am
Kg/cm2	Lit / Min	Lit / Min/	m	mm	<u> </u>	m	Kg / cm2	<u> </u>	cm / se
1.00	11.00	2.20	5.00	66	0.80	10.15	2.10	10.50	1.40E-
2.00		4.60	5.00			10.15			1.98E-0
3.00		6.80	5.00			10.15			
3.30		9.40	5.00	66		10.15			2.85E-
3.00		7.00	5.00	66		10.15			2.28E-0
2.00		5.20	5.00	66		10.15			2.24E-
1.00		3.20	5.00	66		10.15			
		71-0							
K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
1				1	I		1		

	RECOF	D OF WATE	R PRESSU	RE TEST	Н	OLE No.	*	BD-16		
	DEPTH(i			15-20	ı ————————————————————————————————————	<u> </u>	<u> </u>			
			J	L.,	<b>.</b>	L.:		L		
	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
_		QUANTITY		LENGTH		HEIGHT		PRESS.		
	Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
			· <del></del>	·	<u> </u>		·	<u> </u>		
	1.00	5.00	1.00	5.00	66	0.80	10.15	2.10	4.77	6.36E-0
	2.00	7.00					10.15			6.02E-0
	3.00	19.00	3.80				10.15			1.24E-0
-	3.20	28.00			66		10.15			1.74E-0
-	3.00	20.00					10.15		9.77	
	2.00	11.00				0.80	10.15			9.47E-0
7	1.00	7.00					10.15		6.68	8.90E-0
7			J			<u> </u>		<u> </u>		
			1	l						
7	K-VALUE	: COEFFICII	NT OF PE	RMEABILI	TY					
7					<del>                                     </del>					
7										
		11		<del></del>						<del></del>
1	RECOP	D OF WATE	R PRESSU	RE TEST	Н	OLE No.	•	BD-16		
7	DEPTH(r			'20-25	· · ·					
1				1 20 20	L	<u> </u>		L	L	1
7	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALII
		QUANTITY	-	LENGTH		HEIGHT		PRESS.	VALUE	
		Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
7	· (g/OillE		ZK / 21111)		******		1111	ity / Citiz		0111 / 300
7	1.00	2.00	0.40	5.00	66	0.80	10.15	2.10	1 01	2.54E-0
1	2.00	6.20			66		10.15			5.34E-0
-	3.00	11.00		5.00	66		10.15			7.15E-0
-{	3.60	46.00		5.00			10.15	4.70		2.61E-0
1	3.00	40.00		5.00	66	0.80	10.15	4.10		2.60E-0
{	2.00	33.00		5.00		0.80	10.15		21.32	
1	1.00	20.00		5.00	66 66		10.15	3.10 2.10		2.84E-0 2.54E-0
+	1.00	20.00	4.00	5.00	00	0.60	10.15	2.10	19.09	2.54E-U
+		· · · · · · · · · · · · · · · · · · ·	<u> </u>							
+	K WALLE	: COEFFICIE	I NT OF DE	DAKE A DILL	TV					
┥	N-VALUE	COLITICIE	JAI OF FE	NIMEABILI	1 1					
+					<u> </u>					
+										
-	DECOR							4.5		
		D OF MATE	DDECCU	OF TENT		0) [ ] 1/-		DD 40		· · ·
+		D OF WATER	R PRESSU		Н	OLE No.		BD-16		
+	DEPTH(n		R PRESSU	RE TEST '25-30	H	OLE No.	:	BD-16		
	DEPTH(n	n):	R PRESSU	'25-30					LUCEON	W WALL
	DEPTH(n	n): INJECTION	R PRESSU	'25-30 TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUI
	DEPTH(n GAUGE PRESS.	n): INJECTION QUANTITY		'25-30 TEST LENGTH	HOLE DIA	GAUGE HEIGHT	WATER LEVEL	TEST PRESS.	VALUE	
	DEPTH(n GAUGE   PRESS.	n): INJECTION QUANTITY	R PRESSU	'25-30 TEST	HOLE	GAUGE	WATER	TEST	VALUE	
	DEPTH(n GAUGE PRESS. Kg/cm2	n): INJECTION QUANTITY Lit / Min	Lit / Min/	'25-30 TEST LENGTH m	HOLE DIA mm	GAUGE HEIGHT m	WATER LEVEL m	TEST PRESS. Kg / cm2	VALUE	cm / sec
	DEPTH(n GAUGE PRESS. Kg/cm2	n): INJECTION QUANTITY Lit / Min 1.50	Lit / Min/ 0.30	'25-30 TEST LENGTH m 5.00	HOLE DIA mm	GAUGE HEIGHT m	WATER LEVEL m	TEST PRESS. Kg / cm2	VALUE 1.43	cm / sec
	GAUGE PRESS. Kg/cm2	n): INJECTION QUANTITY Lit / Min 1.50 2.60	Lit / Min/ 0.30 0.52	'25-30  TEST LENGTH m  5.00 5.00	HOLE DIA mm 66 66	GAUGE HEIGHT m 0.80 0.80	WATER LEVEL m 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10	1.43 1.68	cm / sec 1.91E-0 2.24E-0
	GAUGE PRESS. Kg/cm2 1.00 2.00 3.00	n): INJECTION QUANTITY Lit / Min 1.50 2.60 4.80	Lit / Min/ 0.30 0.52 0.96	'25-30  TEST LENGTH m  5.00 5.00 5.00	HOLE DIA mm 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10	1.43 1.68 2.34	cm / sec 1.91E-0 2.24E-0 3.12E-0
	GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80	n): INJECTION QUANTITY Lit / Min 1.50 2.60 4.80 47.00	Lit / Min/ 0.30 0.52 0.96 9.40	'25-30  TEST LENGTH m  5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90	1.43 1.68 2.34 19.20	1.91E-0 2.24E-0 3.12E-0 2.56E-0
	DEPTH(n GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80 3.00	n): INJECTION QUANTITY Lit / Min  1.50 2.60 4.80 47.00 35.00	Lit / Min/ 0.30 0.52 0.96 9.40 7.00	725-30  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90 4.10	1.43 1.68 2.34 19.20 17.09	1.91E-0 2.24E-0 3.12E-0 2.56E-0 2.28E-0
	DEPTH(n GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80 3.00 2.00	n): INJECTION QUANTITY Lit / Min  1.50 2.60 4.80 47.00 35.00 22.00	0.30 0.52 0.96 9.40 7.00 4.40	725-30  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90 4.10 3.10	1.43 1.68 2.34 19.20 17.09	1.91E-0 2.24E-0 3.12E-0 2.56E-0 2.28E-0 1.89E-0
	DEPTH(n GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80 3.00	n): INJECTION QUANTITY Lit / Min  1.50 2.60 4.80 47.00 35.00	Lit / Min/ 0.30 0.52 0.96 9.40 7.00	725-30  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90 4.10	1.43 1.68 2.34 19.20 17.09	1.91E-0 2.24E-0 3.12E-0 2.56E-0 2.28E-0 1.89E-0
	DEPTH(n GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80 3.00 2.00	n): INJECTION QUANTITY Lit / Min  1.50 2.60 4.80 47.00 35.00 22.00	0.30 0.52 0.96 9.40 7.00 4.40	725-30  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90 4.10 3.10	1.43 1.68 2.34 19.20 17.09	1.91E-0 2.24E-0 3.12E-0 2.56E-0 2.28E-0 1.89E-0
	DEPTH(n GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80 3.00 2.00	n): INJECTION QUANTITY Lit / Min  1.50 2.60 4.80 47.00 35.00 22.00	0.30 0.52 0.96 9.40 7.00 4.40	725-30  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90 4.10 3.10	1.43 1.68 2.34 19.20 17.09	K-VALUE cm / sec 1.91E-0 2.24E-0 3.12E-0 2.56E-0 2.28E-0 1.89E-0 2.54E-0
	DEPTH(n GAUGE PRESS. Kg/cm2 1.00 2.00 3.00 3.80 3.00 2.00	n): INJECTION QUANTITY Lit / Min  1.50 2.60 4.80 47.00 35.00 22.00	0.30 0.52 0.96 9.40 7.00 4.40	725-30  TEST LENGTH m  5.00 5.00 5.00 5.00 5.00 5.00	HOLE DIA mm 66 66 66 66 66	GAUGE HEIGHT m 0.80 0.80 0.80 0.80 0.80 0.80	WATER LEVEL m 10.15 10.15 10.15 10.15 10.15	TEST PRESS. Kg / cm2 2.10 3.10 4.10 4.90 4.10 3.10	1.43 1.68 2.34 19.20 17.09	1.91E-0 2.24E-0 3.12E-0 2.56E-0 2.28E-0 1.89E-0

	broom	D OF WATER	nnrocu	ne reco		OLE No.		BD-18	·	I
-					F1	OLE NO.	<u> </u>	DD-10	<u> </u>	
	DEPTH(r	n):	L	0.5-5		L		l,	l	L
	OAUGE	INTEGRION		TEAT		GAUGE	MATER	TEST	LUGEON	V VALUE
		INJECTION		TEST				PRESS.	VALUE	K-ANTOE
		QUANTITY		LENGTH		HEIGHT				
	Kg/cm2	Lit / Min	Lit / Min/	m	mm	m .	m	Kg / cm2	<u>:</u>	cm / sec
										LACOTO
	0.50	5.00					3.25			1.66E-0
	1.00		2.31	4.50			3.25			
	1.50	20.80	4.62	4.50			3.25			3.21E-0
	1.70	46.00	10.22	4.50	66		3.25	2.08		6.42E-0
	1.50	27.20	6.04	4.50	66		3.25			4.20E-0
	1.00	16.60	3.69	4.50	66	0.50	3.25			
	0.50	9.40	2.09	4.50	66	0.50	3.25	0.88	23.87	3.11E-0
								_		·
	K-VALUE	: COEFFICIE	NT OF PE	RMEABILI	TY					
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	l									
					l					
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RECOR	D OF WATER	R PRESSU	RE TEST	Н	OLE No.	•	BD-19		]
DEPTH(r			1-5	l			·		
1		12		·	!	<u> </u>	L		<u> </u>
GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
	QUANTITY		LENGTH		HEIGHT		PRESS.		
		Lit / Min/	m	mm	m	m	Kg / cm2		cm / sec
Ny/citiz	Felt ( 1811)	2214 / 141411/		******	L	L	119 / 01114		01117 000
0.50	3.00	0.75	4.00	66	0.70	3.00	0.87	8.62	1.10E-0
1.00	5.50		4.00		0.70	3.00	1.37		1.28E-0
1.50	8.20					3.00			1.40E-0
2.00	16.00		4.00			3.00			2.15E-0
1.50			4.00	66		3.00			1.53E-0
1.00			4.00			3.00			1.39E-0
			4.00			3.00	0.87		1.39E-0
0.50	3.50	0.66	4.00	00	0.70	3.00	0.07	[ 10.00	1.20E-U
ļ			1		,				<del></del>
	600000		DIESEN		<u> </u>			ļ	ļ
K-VALUE	: COEFFICIE	NI OF PE	HMEABILI	I Y	 				
					<u> </u>				
				<u> </u>					
RECOR	D OF WATER	R PRESSU	RE TEST	Н	OLE No.	:	BD-19	L	<u> </u>
DEPTH(r	n):		<b>'5-10</b>			l			
GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALU
PRESS.	QUANTITY	·	LENGTH	DIA	HEIGHT	LEVEL	PRESS.	VALUE	
Ka/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2	<b>)</b>	cm / sec
				·	<del></del>	·			
1.00	2.00	0.40	5.00	66	0.70	5.55	1.63	2.46	3.28E-0
2.00	6.00		5.00			5.55	2.63		6.09E-0
4.00	13.00		5.00	66	0.70	5.55	4.63		7.49E-0
6.00	21.00		5.00	66	0.70	5.55	6.63		8.44E-0
4.00	14.00		5.00		0.70	5.55	4.63		8.06E-0
2.00	7.00		5.00			5.55	2.63		7.10E-0
1.00	2.50		5.00	66	0.70	5.55	1.63		
1.00	2.50	0.50	5.00	. 00	0.70	0.00	1.03	3.00	4.100-0
		<del></del>	· / · · · · · · · · · · · · · · · · · ·	<del> </del>	·			1	<del></del>
12 3/61 115	: COEFFICIE	NY OF DE	DISTABLE	707/					
K-VALUE	:: COEFFICIE	NI OF PE	HMEABILI	17	<u> </u>				
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<u> </u>				l		<u> </u>			
	D OF WATER	R PRESSU		H	OLE No.		BD-19		
DEPTH(n	n):		'10-15	L	<u>L</u>	<u> </u>	L	<u> </u>	<u> </u>
<u> </u>	,	<del>,</del>			<del>y - <u>1</u>, - y - y - y - y - y - y - y - y - y - </del>				
	INJECTION				GAUGE			LUGEON	K-VALUI
	QUANTITY		LENGTH		HEIGHT	LEVEL	PRESS.		
Kg/cm2	Lit / Min	Lit / Min/	m	mm	m	m	Kg / cm2	2	cm / sec
2.00	0.80	0.16	5.00	66	0.70	5.55		0.61	8.12E-0
4.00	1.80	0.36	5.00	66	0.70	5.55			1.04E-0
7.00			5.00			5.55	7.63		8.03E-0
10.00			5.00		0.70	5.55	10.63		8.27E-0
7.00	2.40		5.00	66	0.70	5.55	7.63		8.38E-0
4.00			5.00			5.55	4.63		9.21E-0
7.00			5.00	66	0.70	5.55	2.63		8.52E-0
2 00		V. 17	5.00		U., U	J.J.	£UJ	U. U.	1.0.02.6.20
2.00									
2.00							:	· · · · · · · · · · · · · · · · · · ·	<u>.                                    </u>
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	: COEFFICIE	NT OF PE	RMEABILI	ΤΥ					

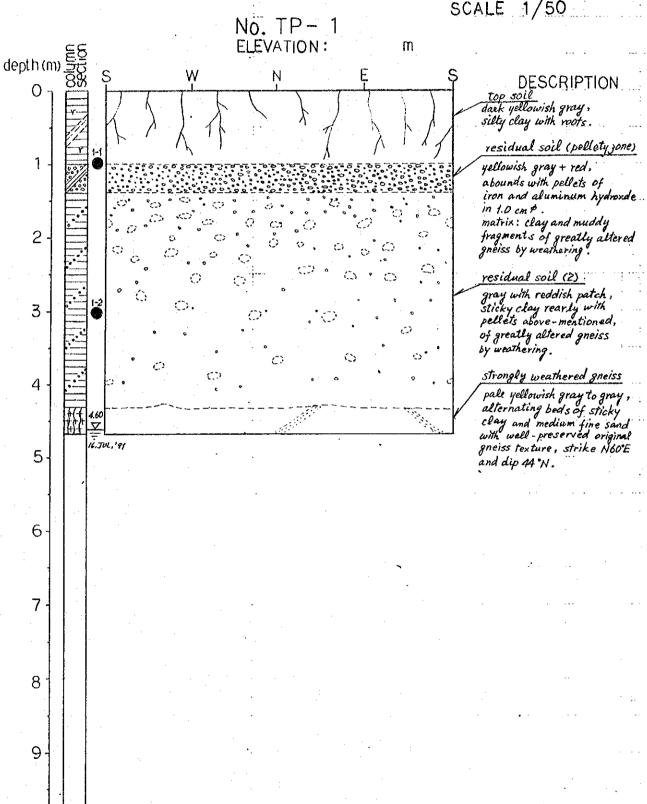
				:	<u> </u>	<u> </u>	<u> </u>			
	RECOR	D OF WATER	PRESSU	RE TEST	Н	OLE No.	• · · · · · · · · · · · · · · · · · · ·	BD-19		
	DEPTH(r	n):		15-20		1				
÷	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	: <b>/</b> :			:		L	l		L
	GAUGE	INJECTION		TEST	HOLE	GAUGE	WATER	TEST	LUGEON	K-VALUE
		QUANTITY		LENGTH	DIA	HEIGHT	IEVEL	PRESS.	VALUE	IV-474EOF
	Kg/cm2		Lit / Min/	m	mm	m	m	Kg / cm ²		cm / sec
	T(g) OIIIL		Part   (61131)		131113	L	111	ing / cmz	-	cm/ sec
	2.00	0.00	0.00	5.00	66	0.70	5.55	2.63	0.00	1 44.44.44.44
	4.00		0.00	5.00	66		5.55	4.63		#####
	7.00									#####
	10.00	0.00	0.00 0.02	5.00	66			7.63		#####
	7.00			5.00	66				0.02	
		0.00	0.00	5.00	66			7.63	0.00	#####
	4.00	0.00	0.00	5.00	66					#####
	2.00	0.00	0.00	5.00	66	0.70	5.55	2.63	0.00	#####
	1,,,,,,,,									
	K-VALUE	: COEFFICIE	NT OF PE	HMEABILI'	TY					
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#### Location of Test Pits

PIT	NO	X(	COORDINATION	4 Y-C	COORDINAT	ION E	LEVATION (m)
TP	1		498400.400		32357.500	) [;] ·	384.0
TP	2		498875.000		31871.500	)	394.0
TP	3		499460.000		30410.000	)	395.5
TP	4		499310.000		28213.000	) .	386.23
TP	5		499204.000		27734.500		395.220
TP	6	aprox.	499610.0		27741.0		405.0
TP	7		498500.000		27503.800	)	396.840
TP	8		499786.000		30247.500	) .	393.5
TP	9		500222.764		29269.771	Ł	384.900
TP	10		500227.182		29285.700	)	395.060
ТР	11		500234.211		29310.082	2	404.065
TP	12		500243.250		29338.426	3	405.242
TP	13	approx.	501600.		30300.		400.
TP	14		499376.027		29807.700	)	405.867
TP	15		499717.593		31307.104	<u>1</u>	393.670
TP	16		499525.806		31185.723	3	389.159
TP	17		499682.453	•	31490.824	1	384.691
	18		499757.335		31495.059		384.810
	19	:	500518.5		30750.0		405.4

GEOLOGICAL LOG OF TEST PIT Fig. 2.4.4 (1)

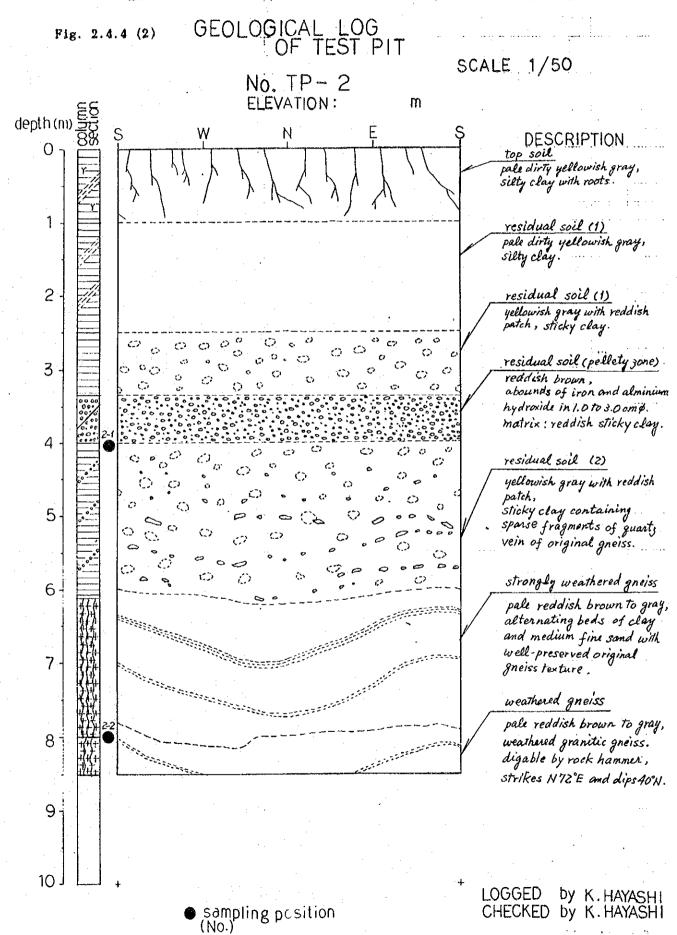
SCALE 1/50

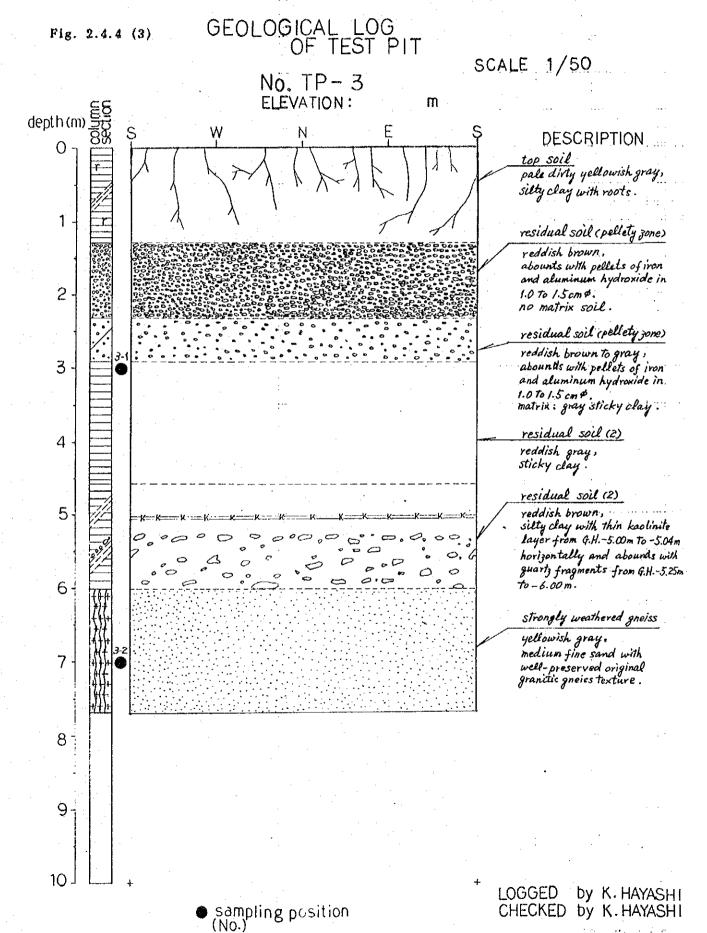


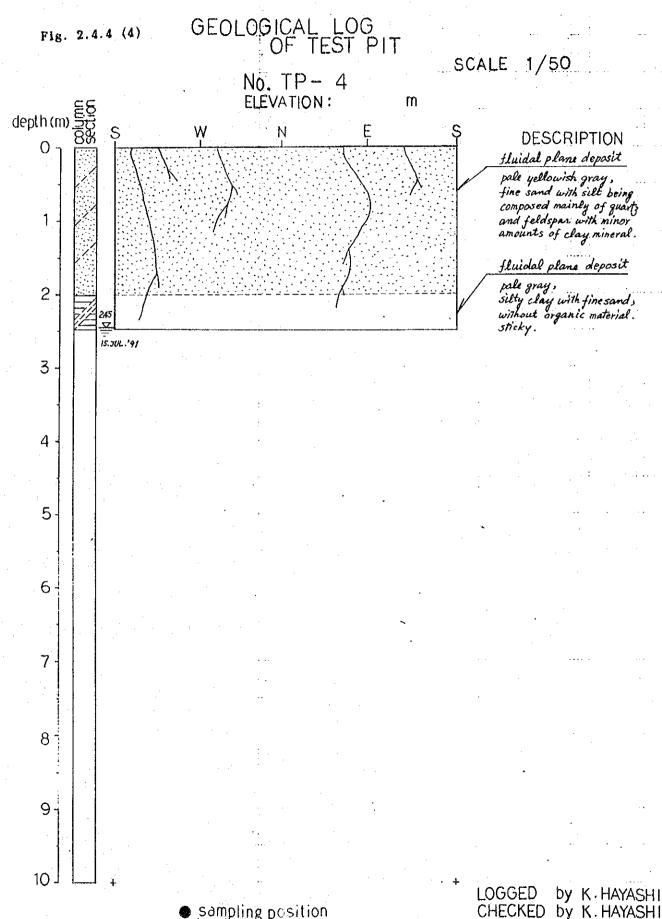
sampling position (No.)

10 J

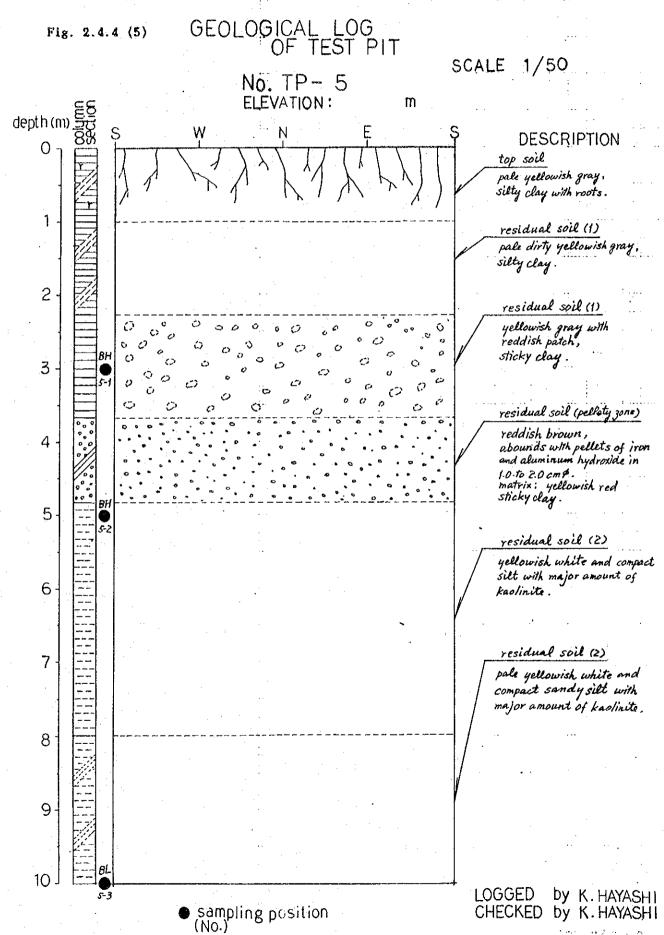
LOGGED by K. HAYASHI CHECKED by K. HAYASHI

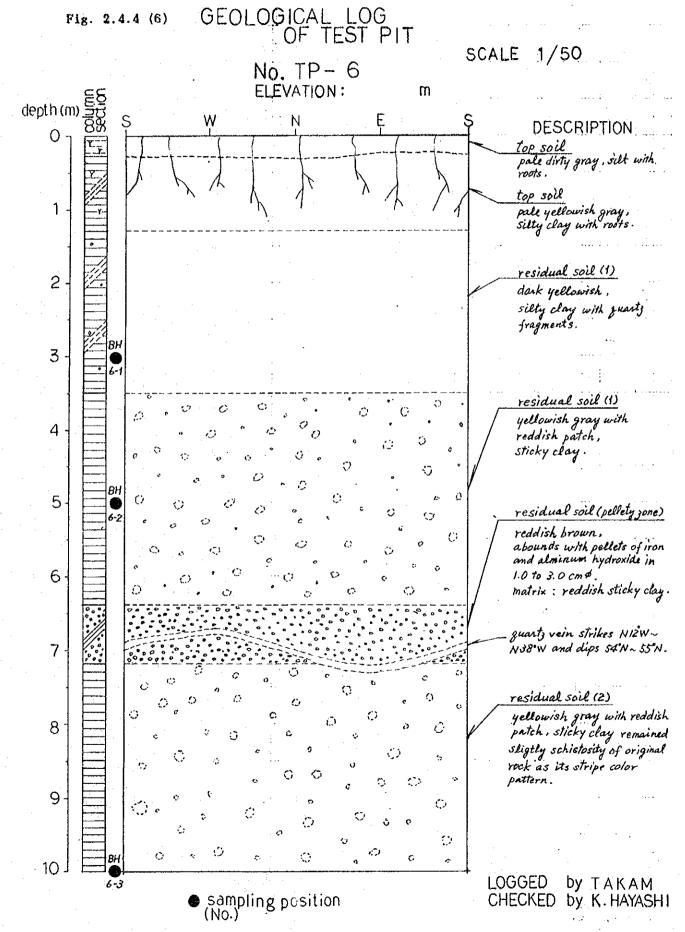


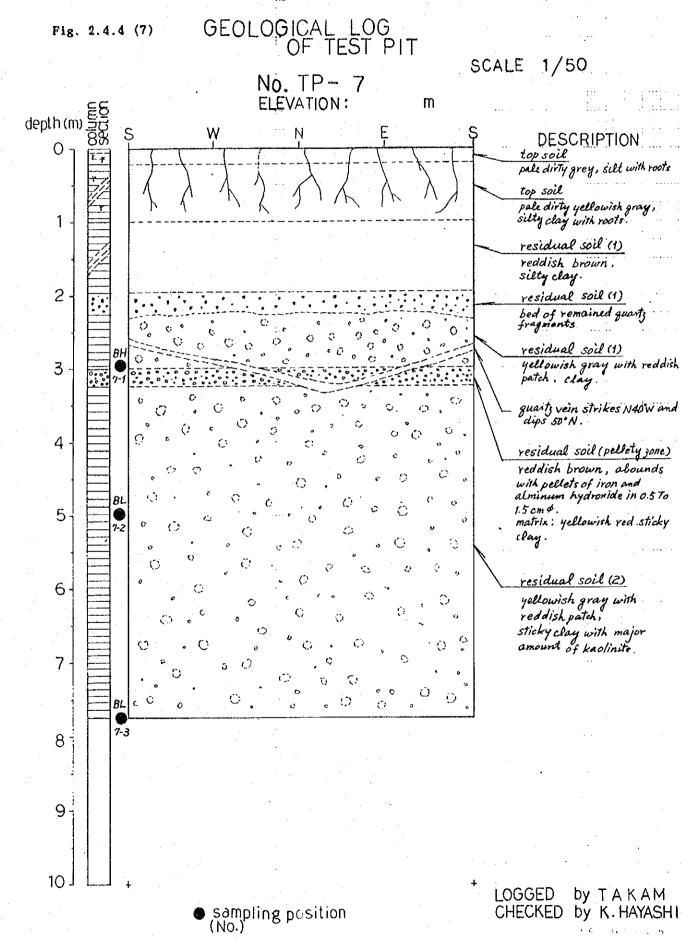


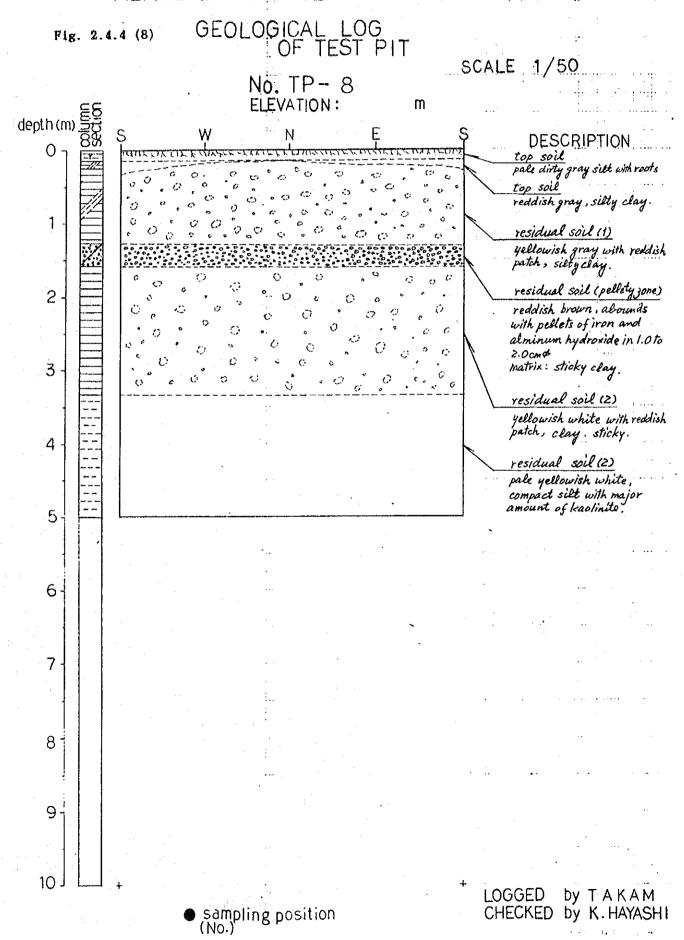


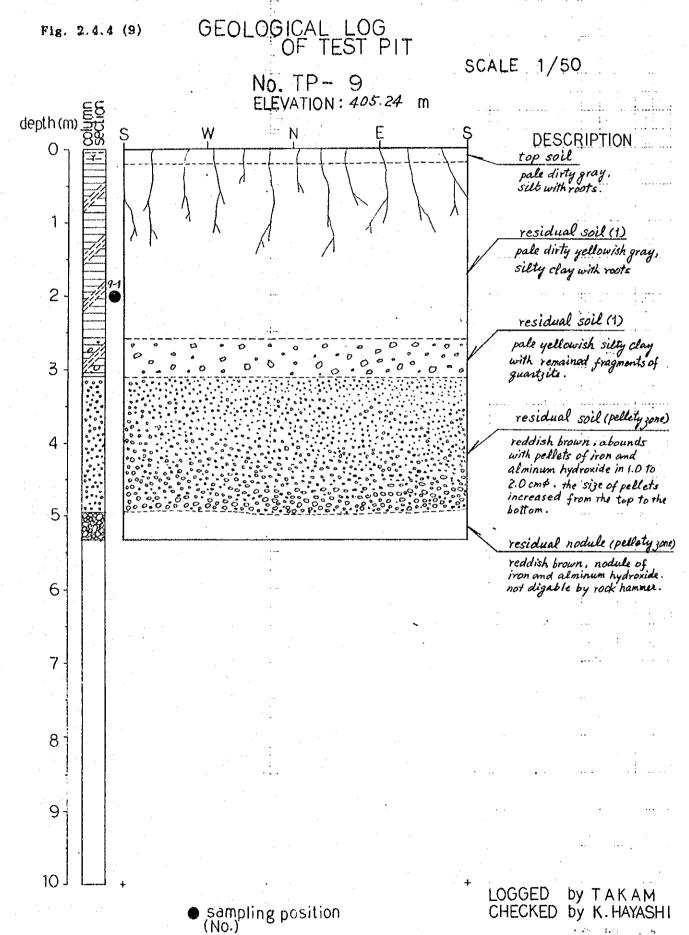
sampling position (No.)

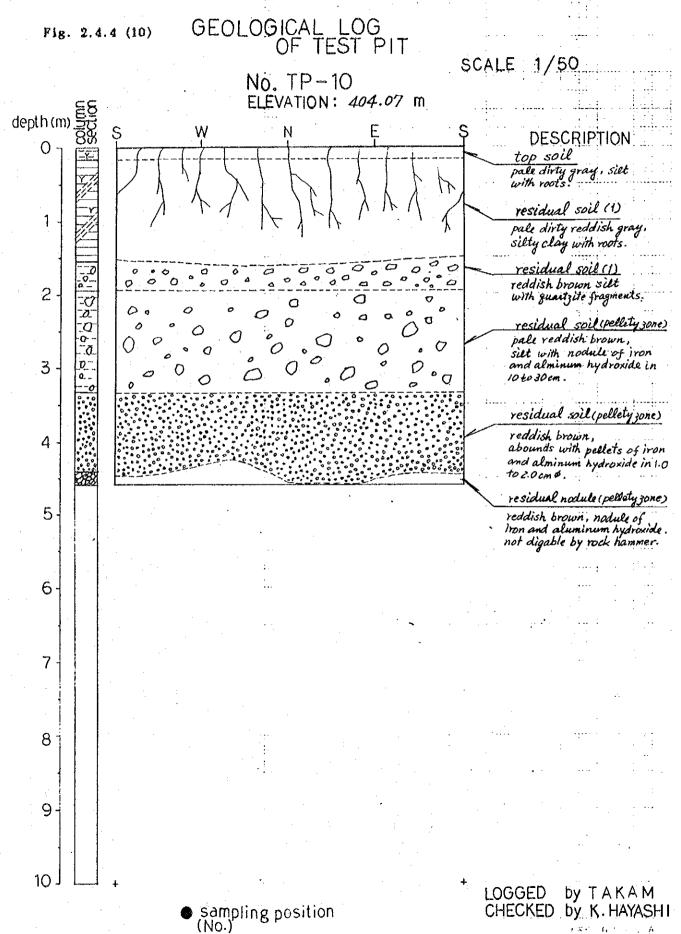


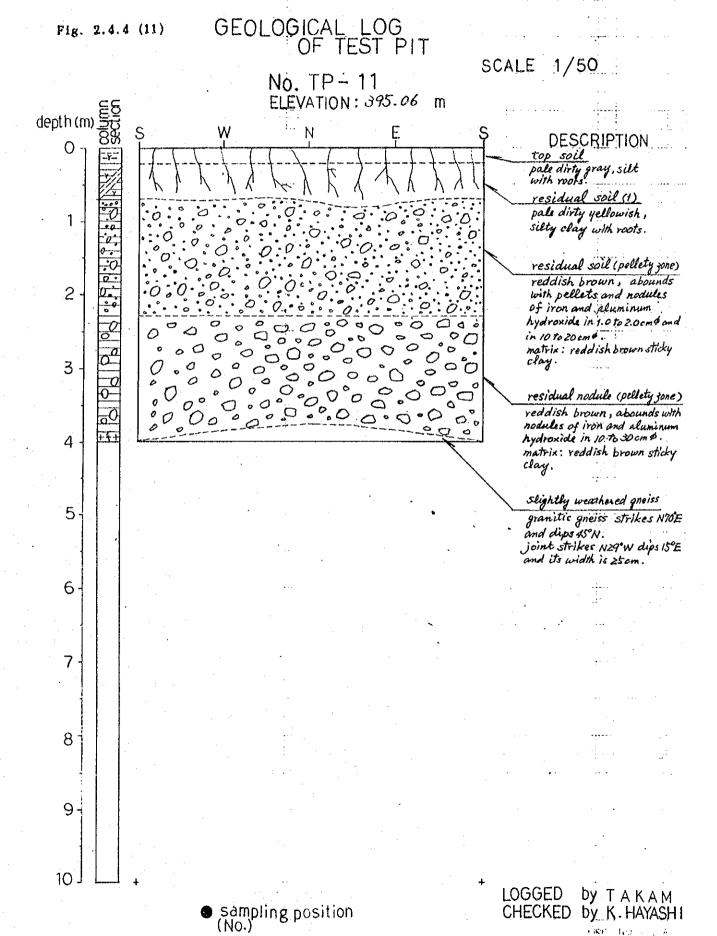


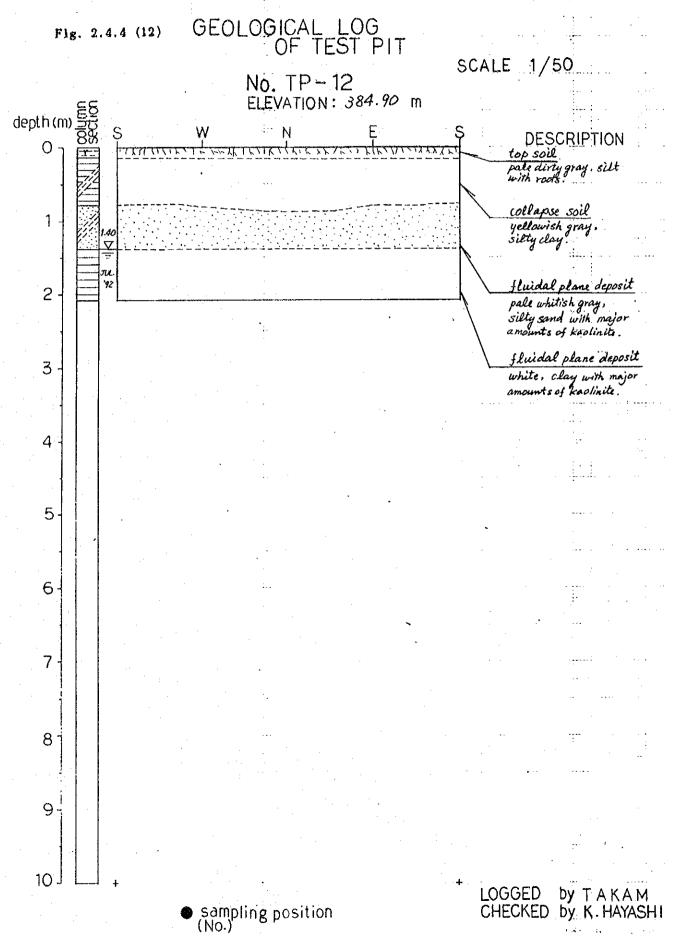


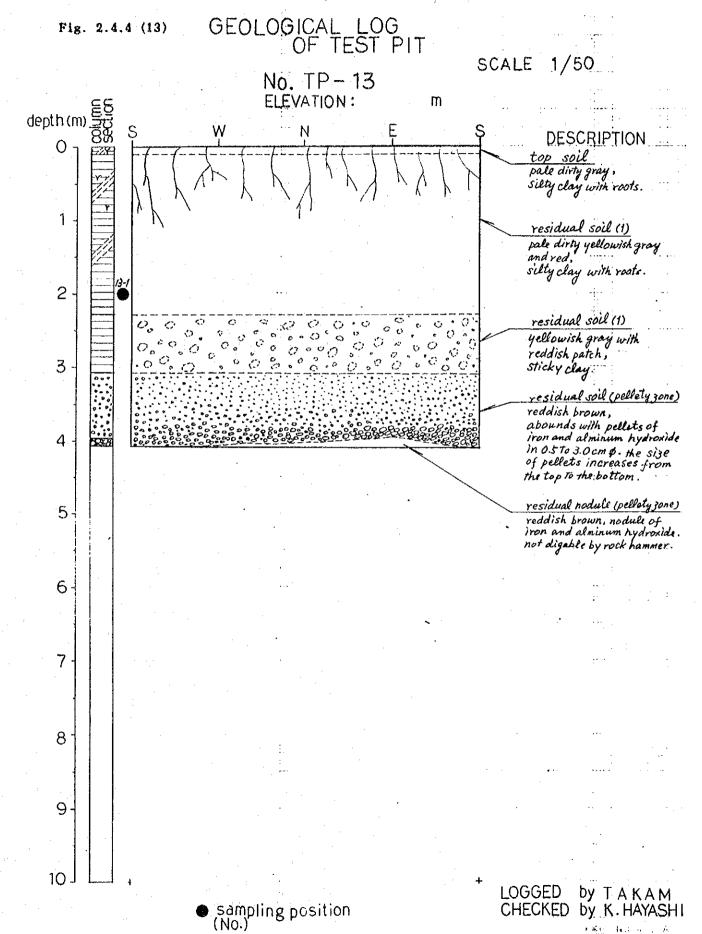












GEOLOGICAL LOG Fig. 2.4.4 (14) SCALE 1/50 No. TP- 14 ELEVATION: 405.87 m depth (m) DESCRIPTION 0 top soil pale dirty gray, silty clay with roots. residual soil (1) 1 pale yellowish gray and silty clay with roots. 2 residual soil (1) yellowish gray with reddish patch, silty clay. 3 from 2.80m, abounds with quarty. residual soil (pellety zone) 4 reddish brown, abounds with pellets of iron alminum hydroxide in 0.5 To Locm4. matrix: reddish sticky clay. 5 residual soil (2) yellowish gray with 6reddish patch, silty clay. original rock texture sligtly remained as itstripe color pattern: 7 C $\bar{C}$ 8 -9 10 LOGGED by TAKAM sampling position (No.) CHECKED by K. HAYASHI

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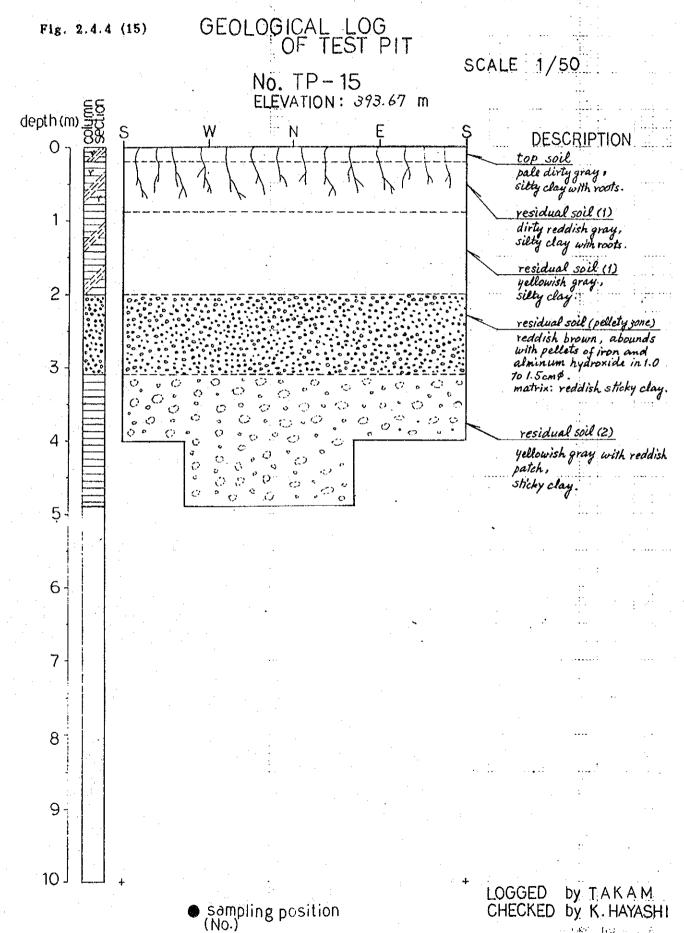
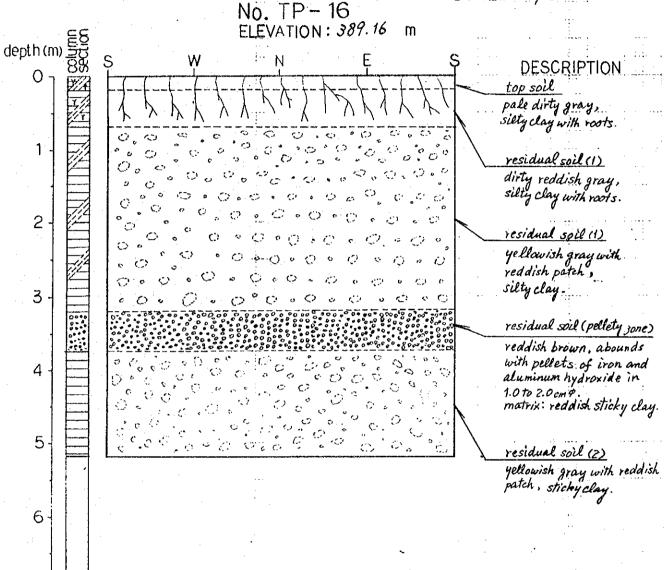


Fig. 2.4.4 (16) GEOLOGICAL LOG OF TEST PIT

SCALE 1/50



sampling position (No.)

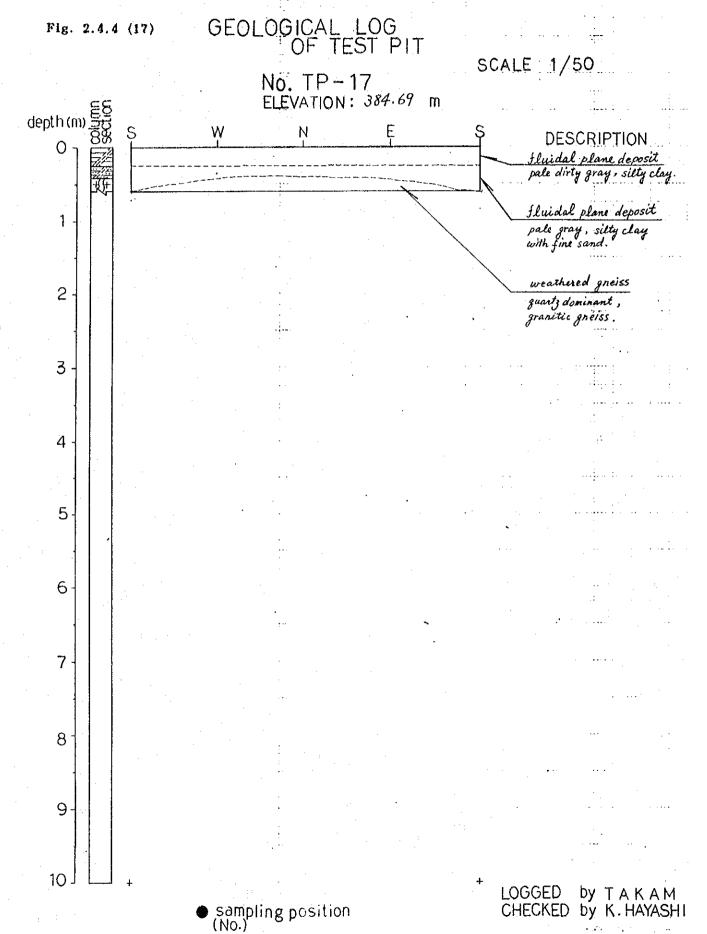
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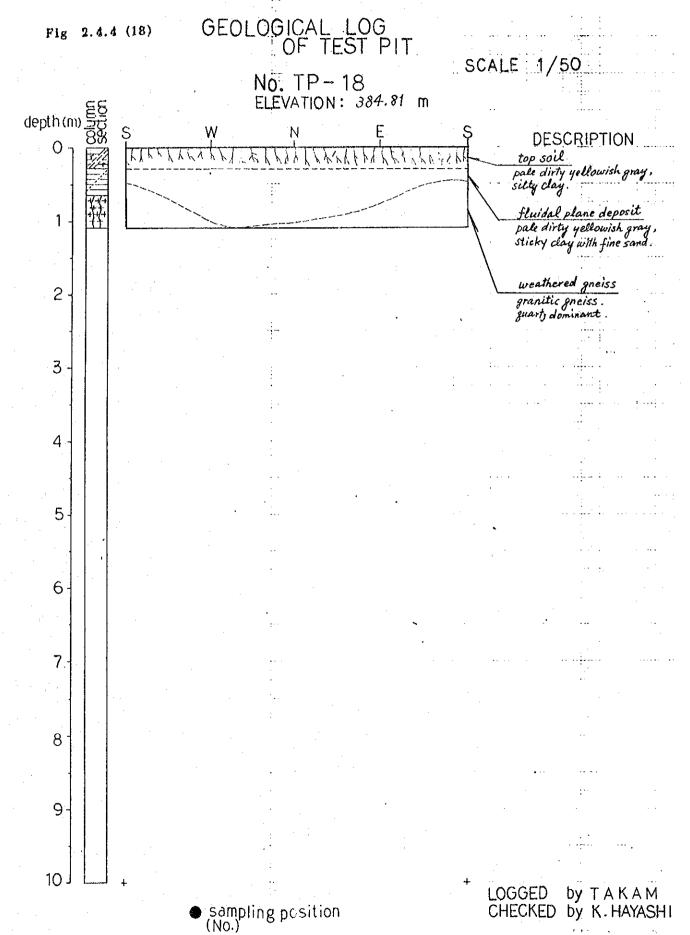
8

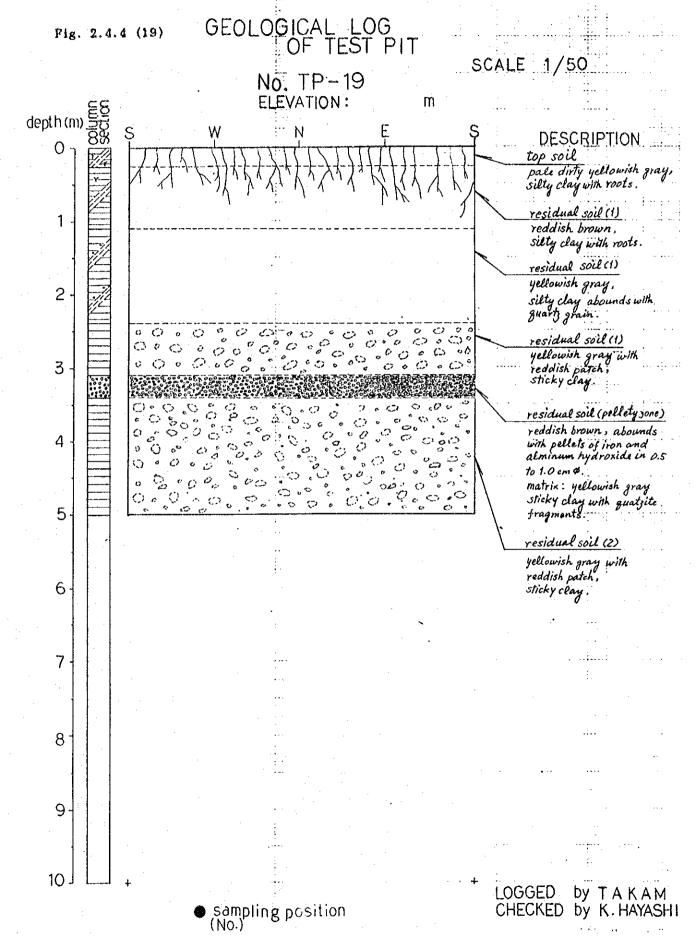
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LOGGED by TAKAM CHECKED by K HAYASHI







#### Location of the Penetration Test Points

SPOT	NO	X-COORDINATION	Y-COORDINATION	ELEVATION(m)
PP	1	499101.771	28337.421	385.512
PP	2	498633.396	27654.258	384.738
PP	3	498356,225	28041.942	384.144
PP	4	497829.007	27493.723	386.963
PP	5	497916.118	28450.881	386.869
PP	6	497839.453	28627.499	382.615
PP	7	497203.327	28789.346	412.967
PP	. 8	498754.871	28542.348	384.494
PP	9	497833	26180	397.5
PP	10	497869	25902	397.5
PP	11	497784	25969.5	397.5

Fig. 2.4.5 (1)

# GEOLOGICAL LOG OF PENETRATION TEST

No. PP - 1 ELEVATION: 385.51 m SCALE 1/50

CARRIED OUT by TAKAM CHECKED & LOGGED by K.HAYASHI

<u></u>	<u> </u>	·				
		elevation	rock _{or} type tormation	column section	description	0 10 20 30 40 50
- E(	0.50	385.01	top soil	X	blackish brown, very fine grained sand with organic material.	
	1 1.00	384.51			pale yellowish gray, very fine grained sand	<b>}</b>
	1.50	384.01	fluidal plane deposit		pale yellowish gray, clay with very fine grained sand. high moisture emtents and sticky.	
	2		Strongly weathered gneiss	++++	pale yellowish green, soften and became sandy	
+	2.25	383.26		<u> </u>	due to weathering	
-	2.39	383.12	weathered gneiss		pale greenish gray, medium grained granitic gneiss hard.	
	3				10.000	
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Fig. 2.4.5 (2)

#### GEOLOGICAL LOG PENETRATION TEST OF

No. PP-ELEVATION: 384.74 m SCALE 1/50

CARRIED OUT by TAKAM

CHECKED & LOGGED by K. HAYASHI Value 30 rock_{or}type tormation column description depth elevation section blackish brown. organic clay. high moisture contents and sticky, very soft. 2.50 382.24 blackish brown. organic clay contains a small quantity of very fine grained sand. 381.24 3.50 brownish gray, very fine grained sand with organic clay. 380.74 4.00 pale whitish gray, very fine-fine grained sand. quarty dominant fluidal plane 4.50 380.24 pale whitish gray, medium grained sand. homogeneous grained guarty. deposit 379.74 5.00

Fig. 2.4.5 (3)

# GEOLOGICAL LOG OF PENETRATION TEST

No. PP - 3 ELEVATION: 384.14 m SCALE 1/50

CARRIED OUT by TAKAM CHECKED & LOGGED by K. HAYASHI

<u></u>			rock _{or} type	column			N Val	ue
de	epth [	elevation	formation	costion	d e S C i i p i i o ii .	o io	20 30	40 50
ΕÖ					pale whitish gray, fine grained sand, homogeneous grained guarty.			
-	0.50	383.64		G	sand. homogeneous grained guarty.			
E					pale whitish gray, very fine			
- 1	1.00	383.14	÷	(vf)	pale whitish gray, very fine grained sand. quarts dominant.	7		
E					pale brownish gray, very fine grained Sand with organic material. very			
-				Y	fine grained sand with			
F	. 0.4	303 50		Y 1160	loose.			
12	1.86	382.28			pale whitish gray, very fine	X		
					pale whitish gray, very fine grained sand.			
	2.50	381.64		(vs)	quarty dominants.			
F	1.				pale whitish gray, very fine ~ coase grained sand.			
-3	3.00	381.14		(V\$-\$)	~ coase grained sand.			
					quarts dominant and grain size changed gradually up to 5.00 m in depth.			
-	3.50	380.64		(f~m)	unt to an and and			
F					histor amined quarte colored	<i>V</i>		
-4	4.00	380.14		(10)	bigger grained quartz colored yellowish.			
-					Jew Williams			
	4.50	379.64	fluidal	:::(m,c)				
			plane deposit					
<u>-5</u>	5.00	379.14	deposit	::·:(O				
-	,							
<u>-</u>			:	<u>[</u>				
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Fig. 2.4.5 (4)

# GEOLOGICAL LOG OF PENETRATION TEST

No. PP - 4 ELEVATION: 386.96 m SCALE 1/50

CARRIED OUT by TAKAM CHECKED & LOGGED by K. HAYASHI

de	enth	elevation	rock _{or} type	column	description	0 10 20 30 40 50
J		CIC VOLIDIT	tormation	section.		
ξO				7	blackish brown,	
					organic clay.  high moisture contents  and sticky, very soft.	
- 1		2 2 2		Y	and sticky, very soft.	•
	1.00	385.96		· · · · · (×)+5	pale blackish brown very	
E		-05.4	,	-YYY	pale blackish brown, very fine grained sand and organic clay. Sticky.	
-	1.50	385.46		(y-1)	pale uellowish white and	
1		304.04		· · · · · · · · · · · · · · · · · · ·	pale yellowish white and brown, very fine grained sand with organic day, and clay.	
2	2.00	384.96		: 1 1-j 1 (V) E	pale gray and pale yellowish white,	
-	2.50	384.46			pale gray and pale yelliwish white, very fine sand and clay. sticky	
F	2.50	304.40			pale yellowish white.	
F3					clay, sticky, kaolinitizated	
$\vdash$					strongly.	
ŧ	3.50	383.46			J. J.	
F	3.30	000.70			pale whitish gray,	
4	-		:		clay. sticky, knotinitizated	
			,			
			fluidal plane deposit		strongly.	i Nilia i i i i i i i i i i i i i i i i i i
			plane		 	
5	5.00	381.96	deposit			
-				7		
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Fig. 2.4.5 (5)

# GEOLOGICAL LOG OF PENETRATION TEST

No. PP - 5 ELEVATION: 386.87 m SCALE 1/50

CARRIED OUT by TAKAM CHECKED & LOGGED by K. HAYASHI

			rock type	column		N Value
de	epth	elevation	rock _{or} type tormation	l.	description	0 10 20 30 40 50
O			101111011011	section	yellowish brown.	
E				X	silt with plant roots.	
Ŀ	0.50	386.37	top soil	<u> </u>		
+			•		yellowish brown,	
‡ 1	1.00	385-87			silt	
-				·	pale yellowish brown.	
E			•		silt with fine grained sand.	
[-					medium moisture contents	
+				,	and not sticky	
-2	2.00	384.87				
F	-	· I		<del></del>	stripe color pattern of	
E					yellowish orange, pale gray	
					and yellowish white,	
F 3				1//	Silty Chay with fine grained	
Ť				//	silty clay with fine grained sand. high moisture contents and stickey.	
-	> 50	202.207		<b>/</b>	and stickey.	
	3.50	383.37			40 Plaurich grange	
E	:	. ]			yellowish orange.	
-4					quantity of iron hydroxide	
-	:			- o	Clay contains a small quantity of iron hydroxide pellet. Nigh moisture contents	
	4.50	382.37	residual soil	0	and slickey.	
			* .		Stripe color pattern and yellowish	
5	5.00	381.87	(2)		orange, clay	
14	3.00	00.107		7-7-		
-						
<u> </u>	-		•	1		
E						
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# Fig. 2.4.5 (6) GEOLOGICAL LOG OF PENETRATION TEST

No. PP- 6 ELEVATION: 382.62 m

1/50 SCALE

CARRIED OUT by TAKAM CHECKED & LOGGED by K. HAYASHI

		1	rock _{or} type	column		N Value
1 d	lepth	elevation	Orthe		description	0 10 20 30 40 50
'	cpin	CIC VOLIDIT		section		0 10 20 30 40 34
10	JI		residual soil	0000	reddish brown,	
1	7			000	iron - aluminume hydroxide pellets.	
1	200	382.12	(pellety zone)	0000	note + commence	
	0.50	302.12		000	peters.	
ŀ	Į.	į !	i		yellowish orange with	
L .		[	•		7.00.000	
-  -	l				reddish brown patchs,	
	_	[ 1		P	clay contains a small quantity of iron hydroxide.	
F			l · .	0	conjums a since	
۲	1	ļ !	l .	<u> </u>	quantity of iron hydroxide.	
F	f	1			, t	
-		i	<b>i</b>	<b>'</b>	high moisture contents	
	.			<b></b>	and sticky	
1-2	2.00	380.62	i	٥	WILL STORY	
1			Í			
F	1.	!		a.'	yellowish orange with	
F	1 1				Smaldrak I man sataha	
<u> </u>			·		reddish brown patchs,	
-				9.	clay contains a small	
Ľ,	.1			r		
ŀ٤	SI :		i		quantity of iron hydroxide	
	1			او		
-					and fine grained sand.	
Ŀ			i '	0,1		
F					medium moisture contents	
- F					and slightly stickey.	
Γ.	, [ _ ]			<i>"</i>		
- 1-4	4.00	378.62			•	
-					wolfawiel aromes	
1.	j	j l			yellowish orange,	
E		ĺ	residual soil		clay.	
<u> </u>			residence soci		int a contract and	
. [	1		(2)		high moisture contents and	
Fe	. 1	300 /3	\2)		sticky.	
- 5	5.00	377.62	<u> </u>		Onoky.	
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Fig. 2.4.5 (7)

#### GEOLOGICAL LOG OF PENETRATION TEST

No. PP - 7 ELEVATION: 412.97 m SCALE 1/50

CARRIED OUT BY TAKAM CHECKED & LOGGED by K. HAYASHI

						LOUGLOW K. HAIAGHI
de	epth	elevation	rock _{or} type tormation	column section	description	N Value 0 10 20 30 40 50
O	0.50	412.47	TOTIMOCION		reddish brown, silt, iron-aluminum hydroxide.	
1	1.50	411.47	residual soil (pellety zone)		reddish brown, iron-aluminum hydroxide pellets with weatherd gneiss fragments.	
2	7.50	4/1.11			yellowish prange, silt with weathered gneiss fragments.	
-3					greess flugments.	7
J						l l
-4	4.00	408.97			yellowish orange.	
5	5.00	407.97	residual soil (2)		silb.	1
				7		
6						
- - - 7						
11.1		-				
8						
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Fig. 2.4.5 (8)

GEOLOGICAL LOG OF PENETRATION TEST

No. PP- 8 ELEVATION:

SCALE 1/50

m

CARRIED OUT by TAKAM CHECKED & LOGGED by K. HAYASHI

[ de	enth	elevation	rock _{or} type	column	description	0 10 20 30 40 50
-0		C IC VOCIOI I	rock _{or} type tormation fluidal plane deposit	section		0 10 20 30 40 50
Ė	0.50		Plant deposit		pale gray, silty sand. low moisture contents.	
- 1	0.85		Strongly weathered gnoiss weathered gnoiss		modium grain granitic gneiss. pale yellow. strongly weatherd and soften.	
	1.06		gneiss	<u></u>	<u> </u>	
-					ditto.	
2						
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m

Fig. 2.4.5 (9)

#### GEOLOGICAL LOG OF PENETRATION TEST

No. PP- 9 ELEVATION: SCALE 1/50

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de	pth	elevation	rock _{or} type formation	column section	description	0	10 20	Valu 30	1e 40 50
Ö	0.50		TOTMOCION	*, (A)	pale whitish gray, very fine grained sandcontains a small quantity of organic material				
1	1.00			cv£)	pale whitish gray, very fine grained sand. homogeneous grain size.		<b>,</b>		
	1.50			4)		4			
2	2.00			(vs)	pale whitish gray, very fine grained sand. Pale whitish gray,				
					very fine - fine grained sand. grain size changed gradually.				
3	3.00		:	(v <del>1</del> -f)	pale whitish gray, very fine grained sand.				
	3.50			cvf>	pale brownish white, fine grained sand contents		À		
- 4					a small quantity of coase grained quartite rounded				
<u>-</u> 5	5.00		fluidal Plane deposit	(4)	fragments(d1-2cm).				
				7					
<u>-</u> 6									
<u>- 7</u>									
8				:					
- 9									

Fig. 2.4.5 (10)

GEOLOGICAL LOG TEST OF PENETRATION

SCALE 1/50

No. PP - 10 **ELEVATION:** 

m

CARRIED OUT by TAKAM

CHECKED & LOGGED by K. HAYASHI Value 30 rock_{or}type tormation column description depth elevation section pale whitish gray, very fine. fine grained sand contains a small quantity of organic material. 050 pale whitish gray with dark green, fine grained sand with decomposed greiss become dank greenish clayey silt due to strong weathering . fluidal plane deposit 2.50 6

m

Fig. 2.4.5 (11)

GEOLOGICAL LOG OF PENETRATION TEST

No. PP - 11 ELEVATION:

SCALE 1/50

CARRIED OUT by TAKAM CHECKED & LOGGED by K. HAYASHI

Value 30 rock_{or}type tormation column description depth elevation <u>section</u> blackish gray and white, fine grained samd with organ material. top soil 0.50 fluidal Plane deposit pale yellowish and whitish gray, fine grained sand 1.00 Stripe pattern of yellow and pale gray, clay with fine grains collapse soil 1.50 pale yellowish gray. fine grained sand with high moisture contents. fluidal Plane deposit 3.00 stripe color pattern of pale yellow, pale yellowish brown, white and brown. clay with fine grained original rock texture has been slightly remained as its stripe color pattern, residual soil and sericite is observed. high moisture contents and sticky. (2) 5.50 6