APPENDIX-VI

GEOLOGICAL INVESTIGATION DATA

CONTENT

 VII = 1
 Geologic Log of Drill Hole:
 VII = 1

 VII = 2
 Permeability Test in Drill Hole:
 VII = 25

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VII - 1 GEOLOGIC LOG OF DRILL HOLE

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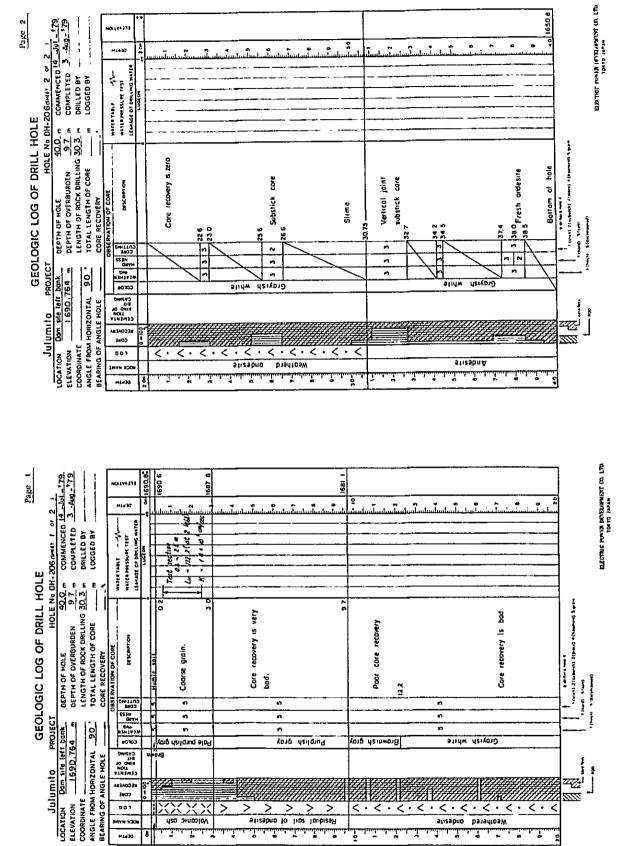
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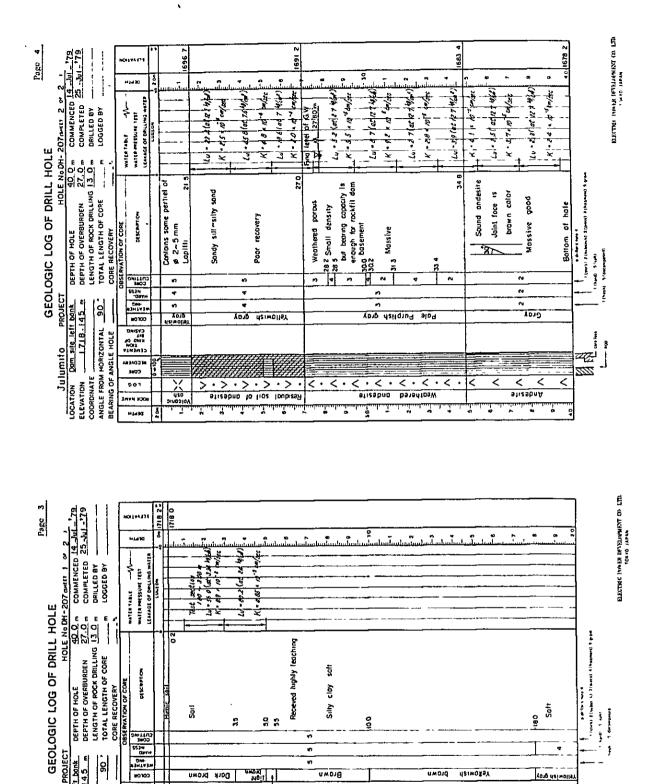
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Location	Hole name	Length(m)	Elevation		inates		Permeabilrty
				X	Y	of hole	test
	DH-206	4 O M	1690.764	1046,595.330	767,991.770	NX	0
	DH-207	40 m	1718.145	1046,501.832	767,970.031	NX	0
	DH-208	30 m	1679.247	1046,698.464	768,068.340	NX	0
	DH-209	40m	1724.202	1046,746.121	768,1 37.284	NX	0
Dam	DH-210	2011	1647.552	1046,666.218	768,004.564	NX	0
	DH-211	20 m				NX	0
	DH-212	200	1647.249	1046,694.303	767,986.028	NX	0
	DH-213	20m	1646.584	1046,616.730	768,051.461	NX	0
	DH-214	50 m				NX	0
	Sub, T	280m					
	DDH-101	25177	1715.173			NX	
Dike	DDH-201	250	17 14.995			NX	
DIKE	DDH-202	25m	1712.161			NX	—
	Sub. T	75M					
Intake	DH- 8	50m	1698.674	1046,666.876	767,750.214	NX	
THLUKG	Sub.T	50m		•			
Surgetank	он- э	70m	17 (8.399			NX	
Suigerank	Sub, T	7 OM					
	CDH- I	зот	1764.286			NX	—
Cauca	CDH- 2	зоm	1763.787			NX	
Diversion	CDH-3	IOM	1756.253			NX	—
Dam	CDH-4	30m	1756.817		<u>.</u>	NX	—
	CDH- 5	30m	1755.880			NX	—
	Sub. T	130m					
Borrow	8DH-I	4 O M	1738.059	1046,099.641	767,350.251	NX	
Area	Sub. T	4 OM					
Qwarry	QDH- I	IOOM	1730,197			вх	
Site	Sub. T	100m					
Total		745 ^m	' 21ho	les			· · · · · · · · · · · · · · · · · · ·
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LIST OF DRILL HOLE









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LOCATION Dam site left bonk ELEVATION 1718 145 m

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LOCATION

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ANGLE FROM HORIZONTAL

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COORDINATE

BEARING OF ANGLE HOLE

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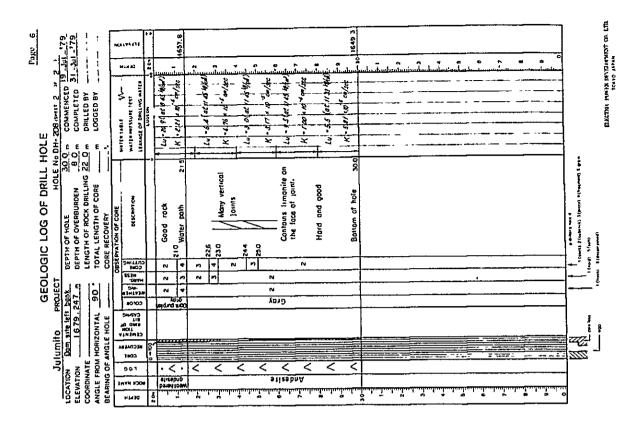
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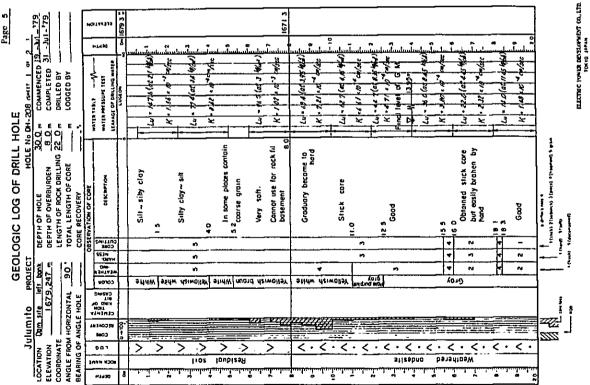
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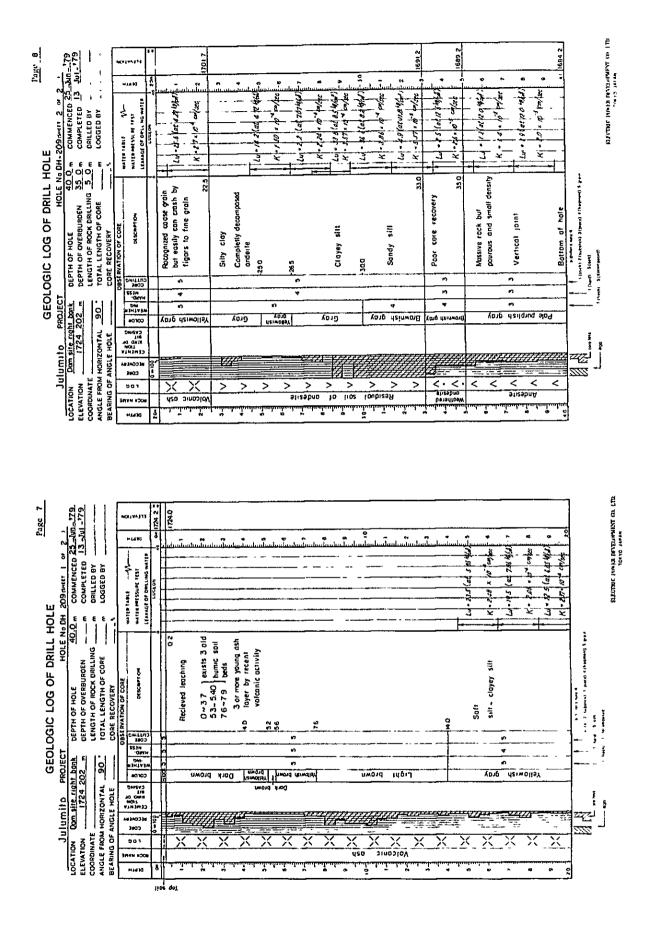
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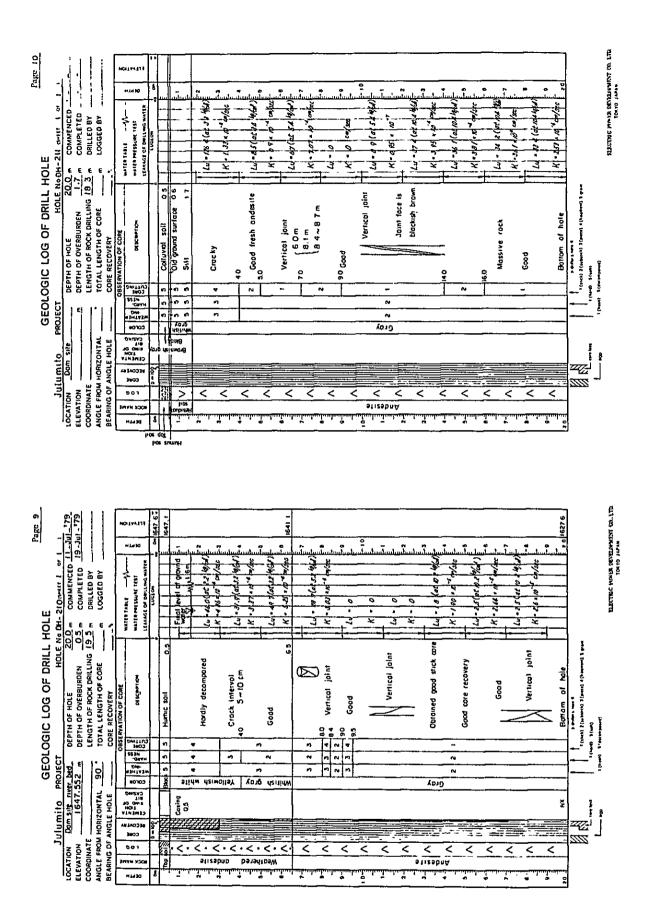
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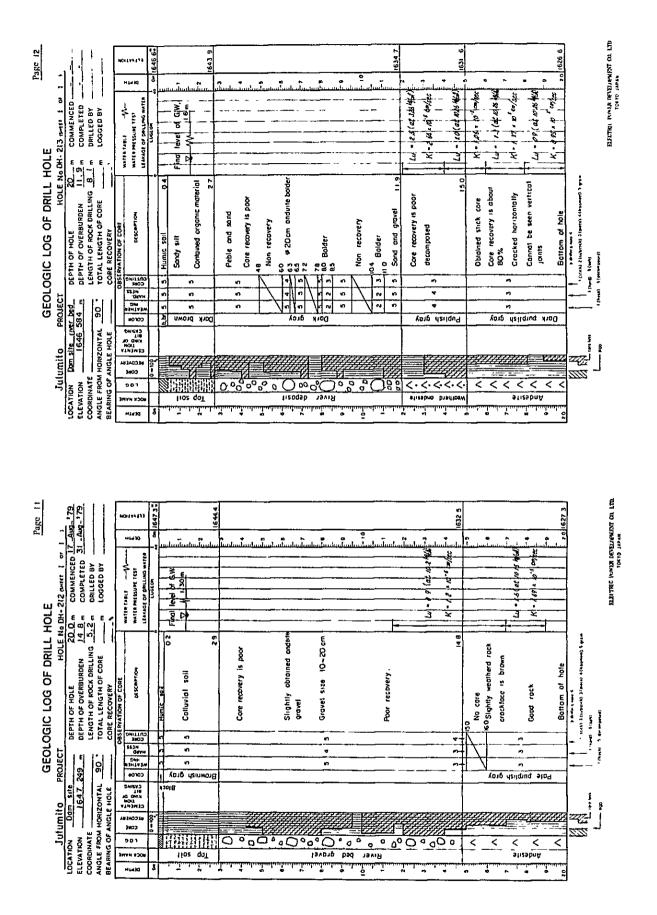
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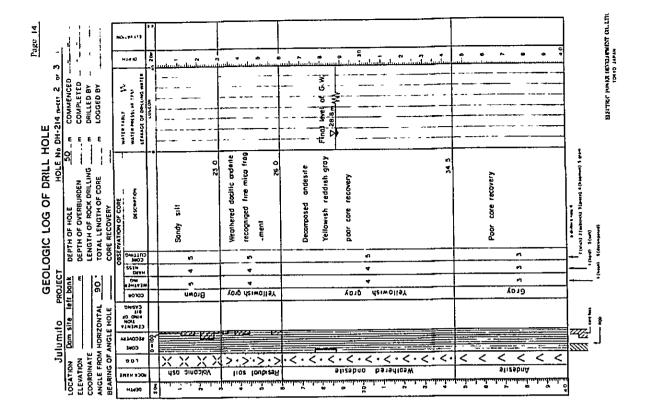


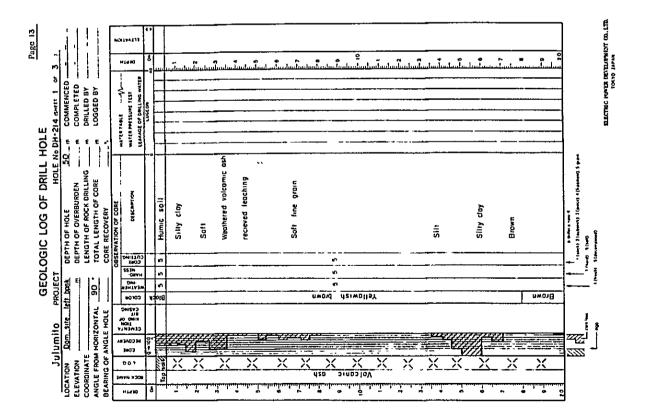


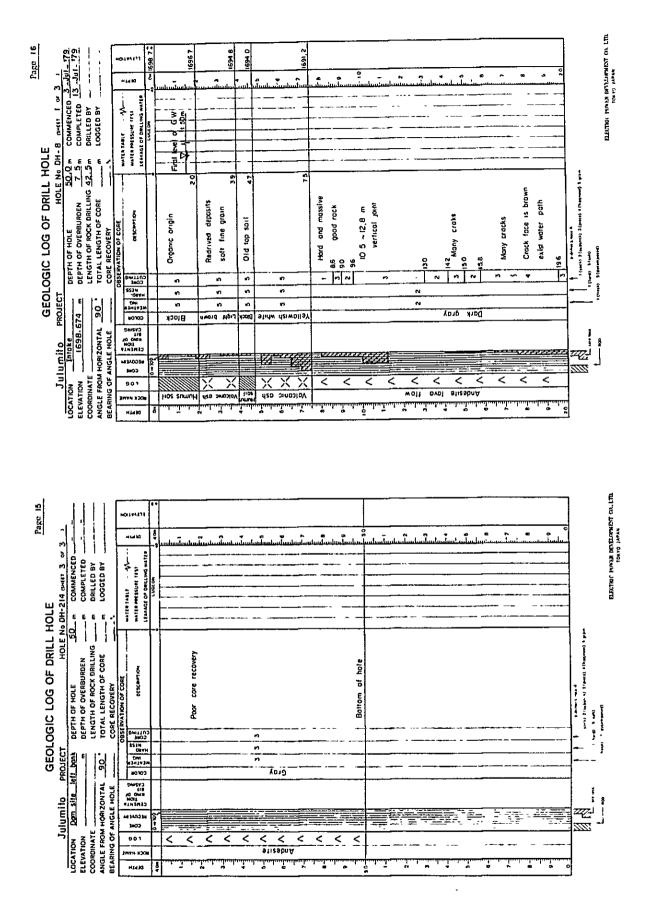


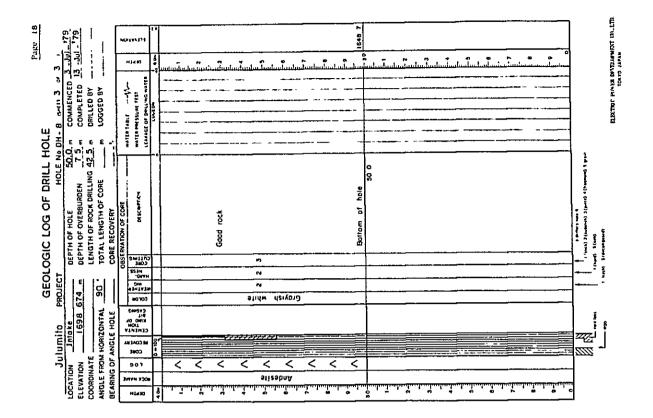


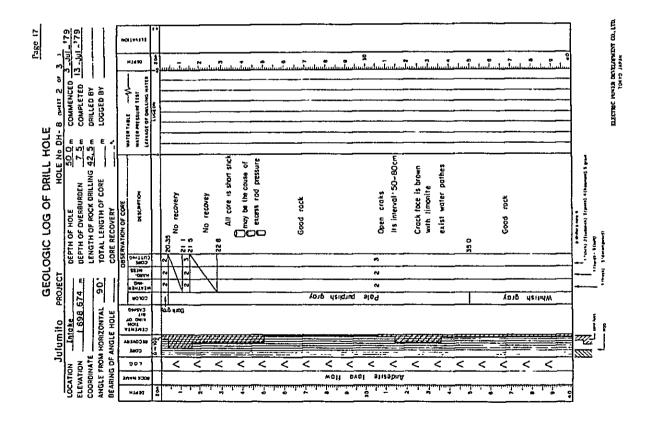


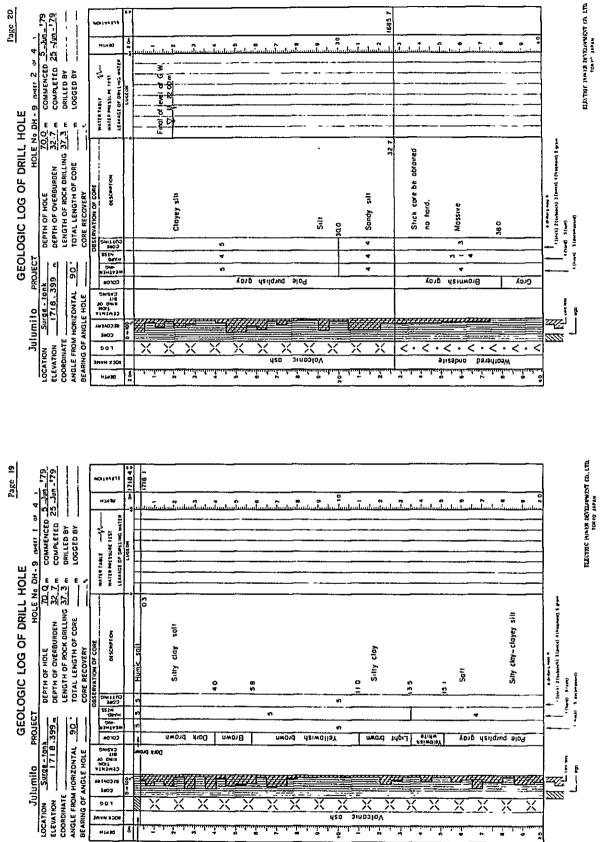




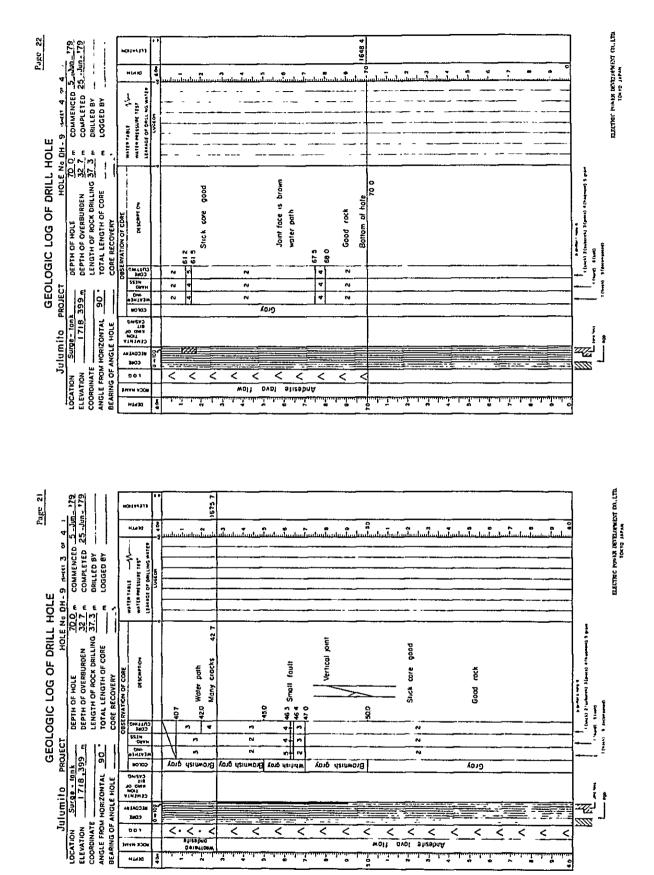




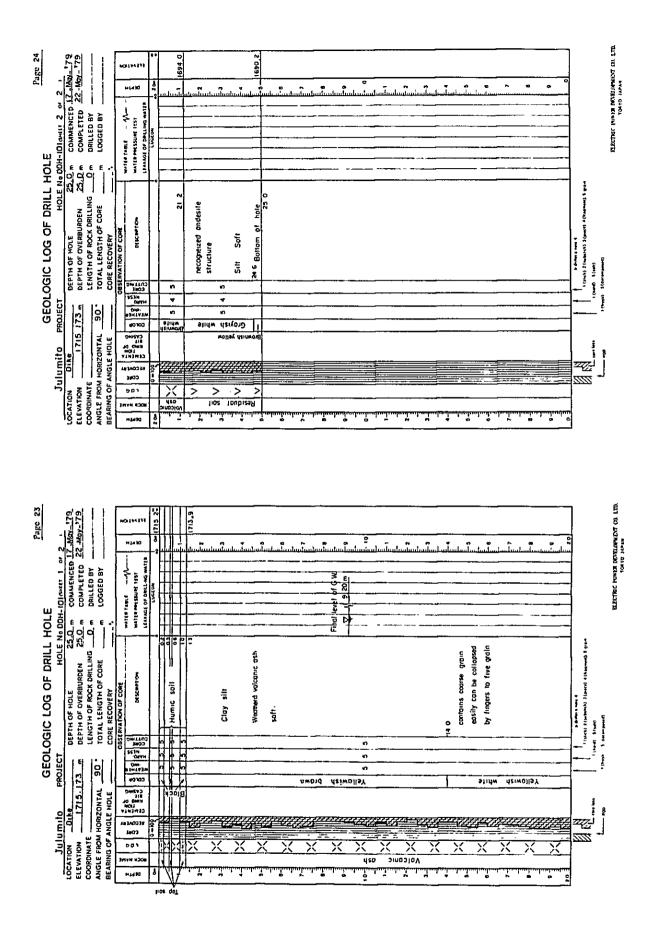




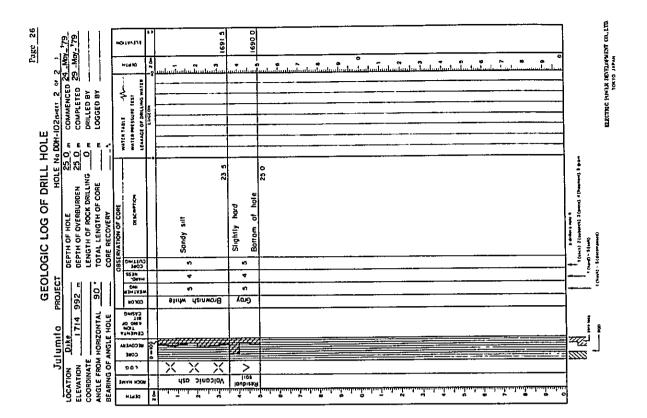
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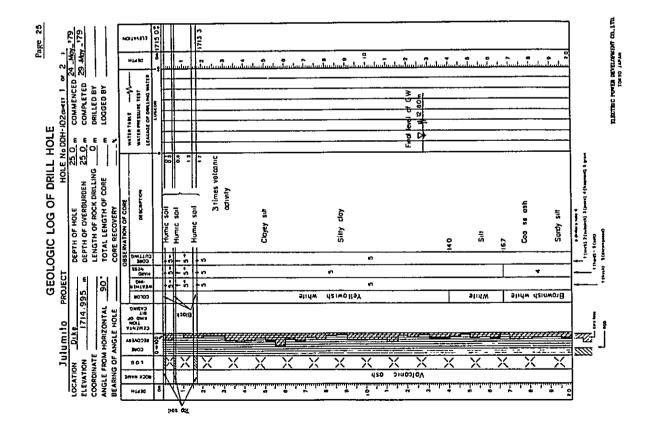


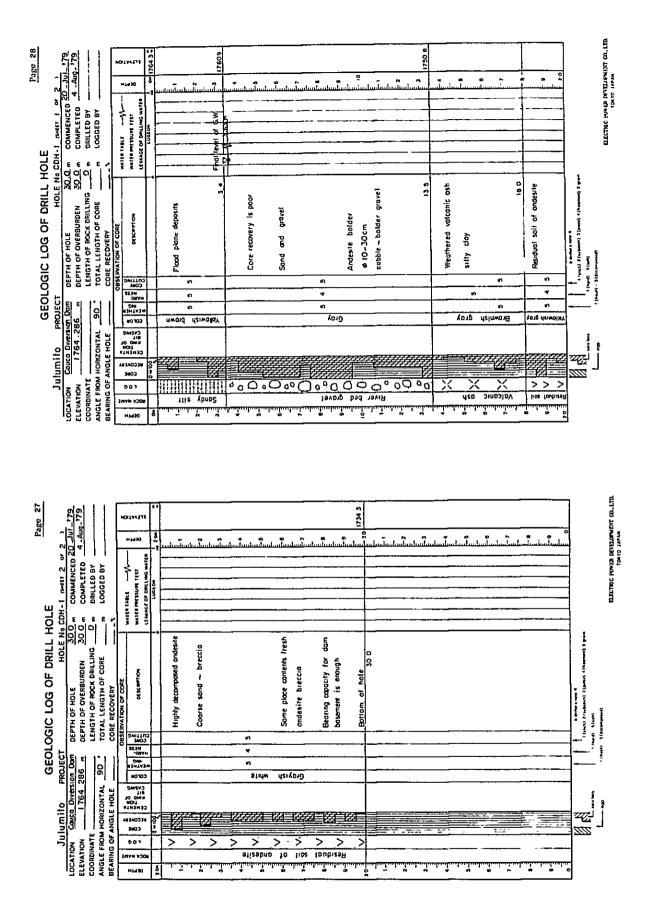


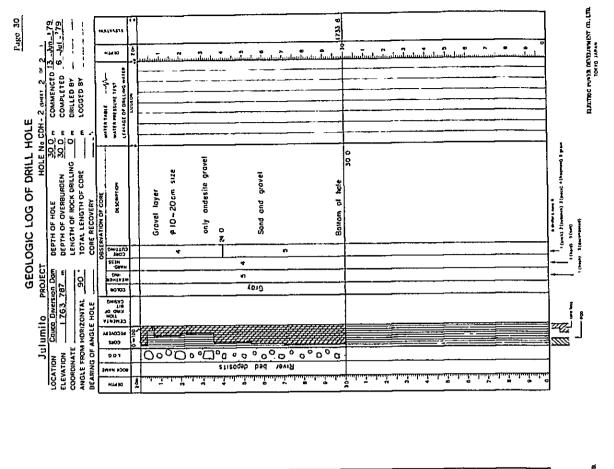


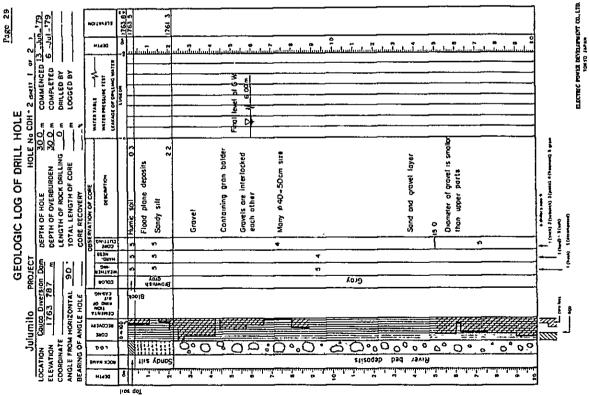


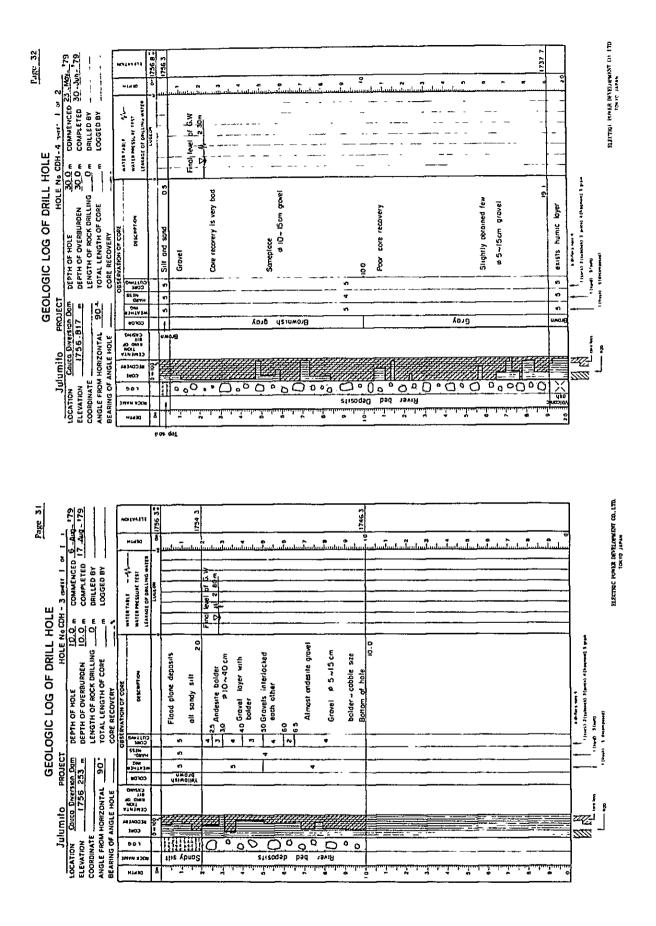




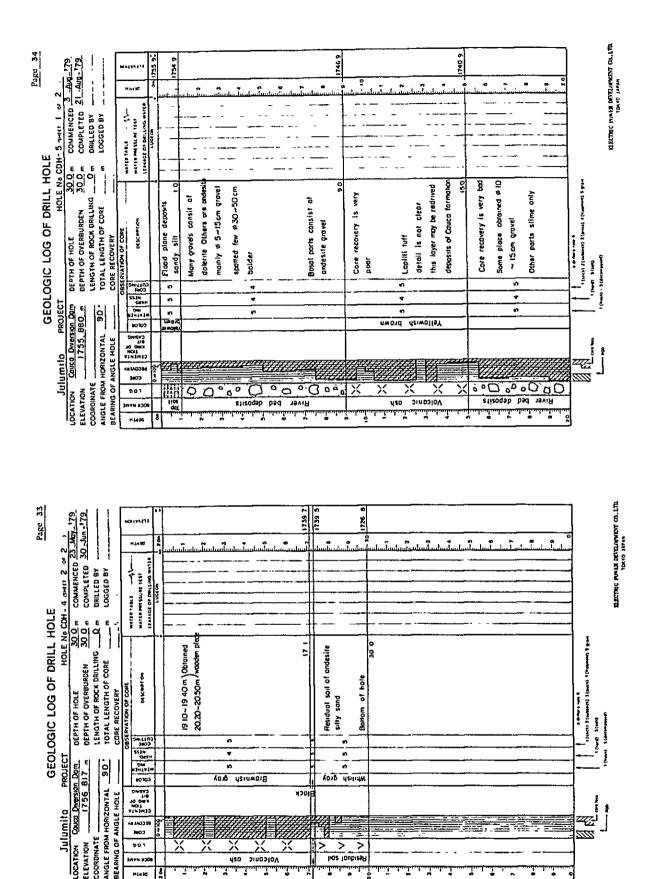














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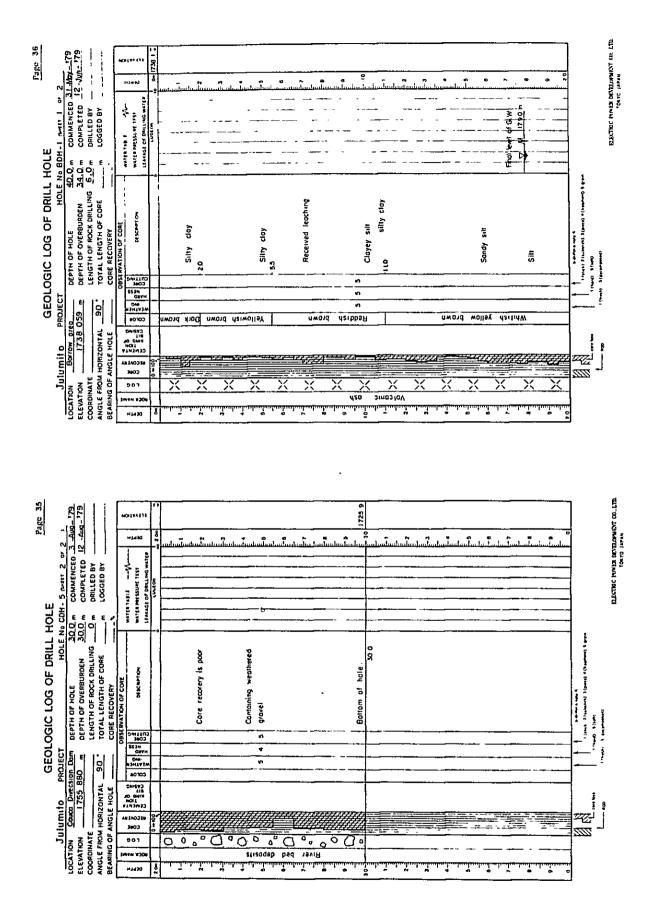
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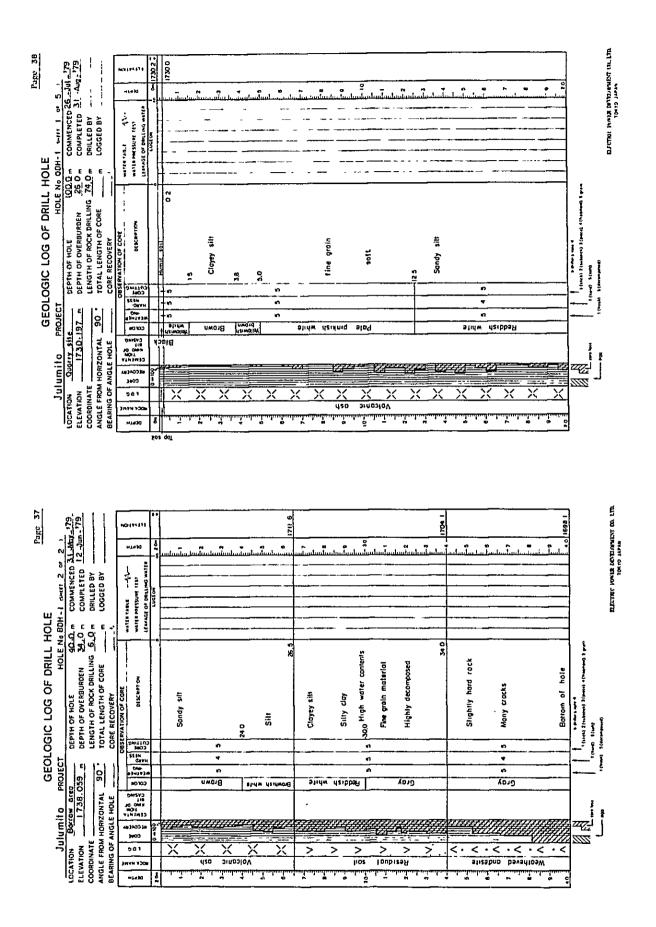
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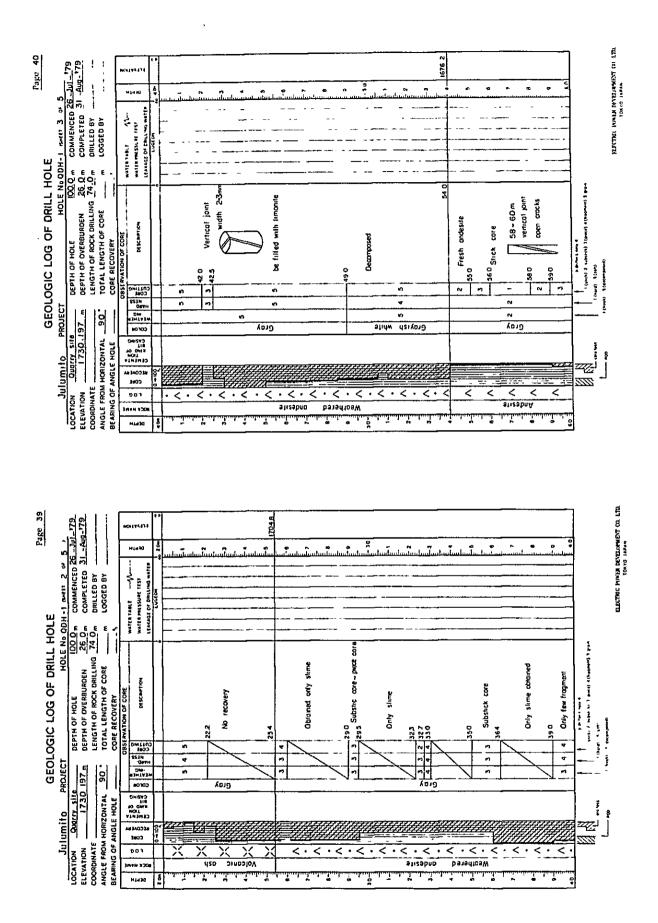
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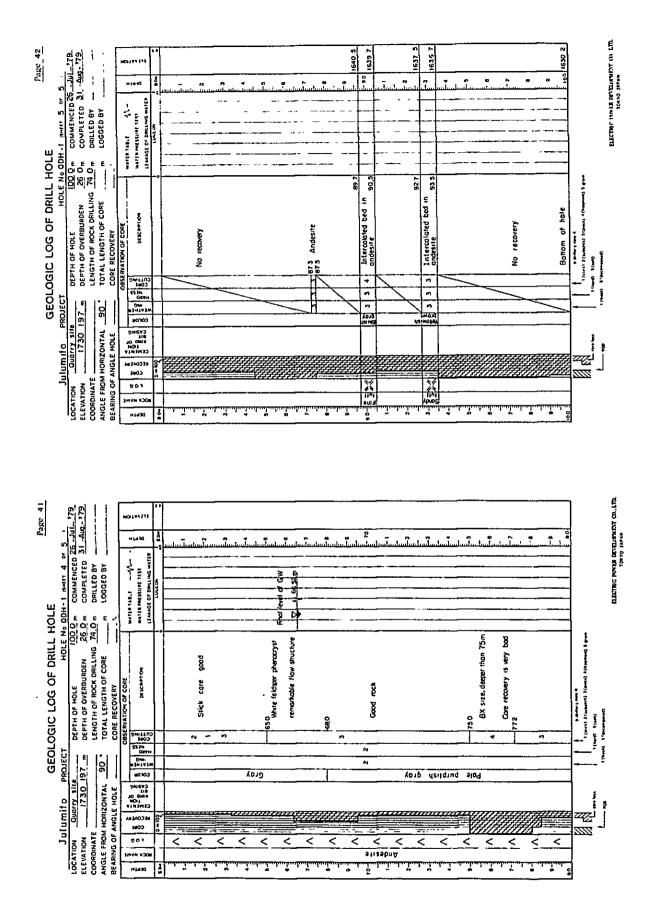
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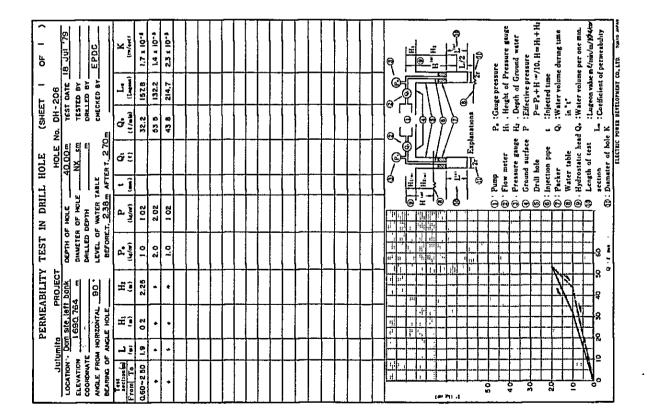


VII - 2 PERMEABILITY TEST IN DRILL HOLE

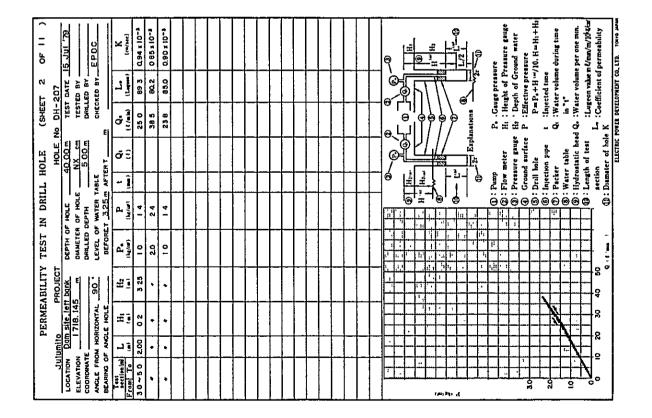
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JUIU LOCATION ELEVATION	ANGLE FROM	Test section (m) From To	2150-23.50	•	•	•		•	•	*	٠						



OF 11)	87' Jul 22	EPDC	K (ra/act)	1,1 × 10*8	00	19×10-4	2.0 × 10**		17 = 10-4	16×10-*	00						© © © <u>O</u>
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	LOCATION	COUNDRATE - ANGLE FROM BEARING OF A	Test section (m) From To		ł	•	•		•	•	•						

0F 11) 25 Jul 73	EPDC	K tm/see)	6 3 x 10-4 5 5 x 10-4	4910-4	4 8 x 10-4	5.0 ± 10**	6.2 x 10-4	76±10-4							ⓐ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ ⓑ
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(SHEET No DH-207 TEST DA		(* °)	31 O 48 2	60.8	69 6	72.6	53.8	225							6 6 6 6 5 "
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TEST IN DRILL	DEPTH F WATER TI	P (he/or)	2.6 4 6	9	76	6 6	4	9		T					
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PERMEABILI mito PROJE <u>Com site jett bonk</u> t 718 145 m	NATE HORIZONTAL	ŦĮ	0.20	•	•	•	•	•							
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Juli Location	COORDINATE ANGLE FROM BEARING OF		23.50-25.50	•	ľ	•	•								

0F 11)	04, 111 30		EPDC	×	.a'let)	\$3410-6	22 4 10 ⁻⁶	51 ± 10"5	85×10 ⁻⁶	92 x 10-5	75 a 10-5	4.8 a 10-5	2 B # 10-6	2.6 x 10-6							Ţ			0	ж		T/2 +	7	176	Height of Pressure gauge	Depth of Ground water	дассите pressure Р=Р.+Н ~/ЛО. Н=Н.+Н.		Water volume during time		Water volume per ane min	Lugeon value m (ram/m/ 1044m)	Coefficient of permeability
1 ~		TEST DATE TESTED BY DRALLED BY	CHECKED BY		Lugen	0.5	21	48	8.0	87	71	4 5	26	2.4										7	Ť	<u>ةــــــــــــــــــــــــــــــــــــ</u>] e	17 17	Gauge pressure	eight of P1	epth of Gr	P=P+H -/10.	Injected time	iter volume	ы ". "	iter volum	geon value :	efficient of
(SHEET	ę	_	£		1	D. 4	4	4 4	15 6	22.0	13 8	70	30	18				_					_ ہے' ریا				Explanations		P. :C.	Ŧ	Ξ, c	4	. iii	м: о		••	-	1 🖂
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I I	22 Jul '79 EPDC	K (ce/eec) # 2 10 ⁻⁶	2 x 0"*	3.2 x 10 ⁻⁶	5.5 × 10 ⁻⁵	4 I ± 10 ^{-B}	11 = 10-6	•	5 7 K 10-							ବ୍			0	1 - H3			<u>1,12 1</u>	ľ		. Height of Pressure gauge	Depth of Ground water	asure	P=P,+H (=/10, H=H1+H	Injected time • Writer volume during time	ה מתנוע איזויב	Water volume per one min.	:Lugeon value in (/mi//m/ j0/6/m	Coefficient of permeability	2. LTD. TONTO JAVAN
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1 =	25 Jul '79 EPDC	K (ta/acc) Q.D	0.0 5.3 r.10**	1 8 × 10-5	2.6 × 10*5	2.0 ± 10 ⁻⁶	371 10-4	4 D x 10 ⁻⁶						•		Control of the second s
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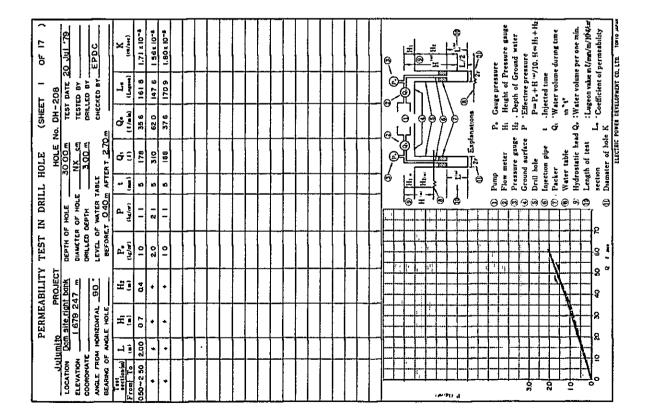
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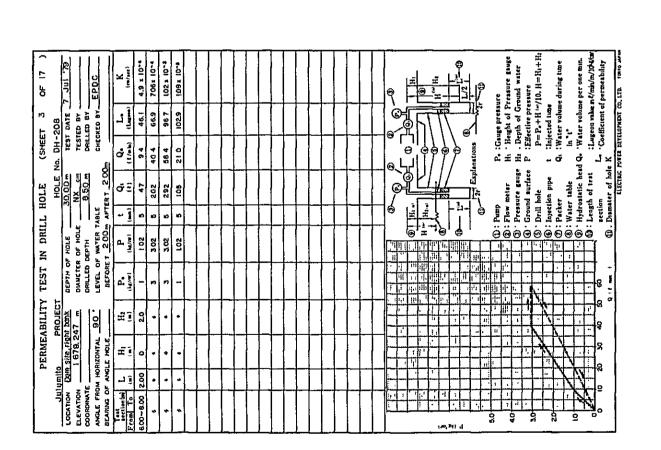
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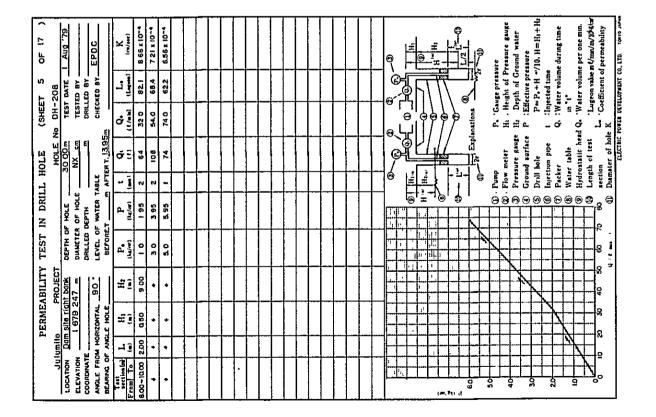
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	<u>Julumito</u>	<u> </u>		1-		•	•	•	-	+					┤┤	╡	1	+			π			ų n		η -	 	$\frac{1}{1}$		-			-1	2	
	UL.	LOCATION	ANGLE FROM MORIZONTAL BEARING OF ANGLE HOLF	Teal section (m	From To 250~500	•	•	•	•											- ;			- - 	11 1			4.0	-		្នុ		2	\mathcal{A}	5	



0F 17) 24 Jul 73	EPDC	K 148/2006	258×10-9	1 03 × 10-3	8.02 × 10-4	4-013261						Bergen and All a
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		ΞĒ	200	•	1	• •		┦	1		-	
Julic Location ELEVATION COORDIMATE	ANGLE FROM	Teat section (m) From To	700~900	•		•						



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IN DRILL	្រុក ខណ្ឌ	P (Le/ver) 2 05 4,05	80 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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PERMEABILITY	Data Site Fight back	4 1 00 ·		
PERME	DOM SITE FIGHT D 1 679 247 HORIZONTAL 9 ANGLE HOLE	HI T	•	8
		158.0		
	UTUTU LOCATION ELEVATION COORDINATE ANGLE FROM BEARING OF	From To 9.00-11 00		

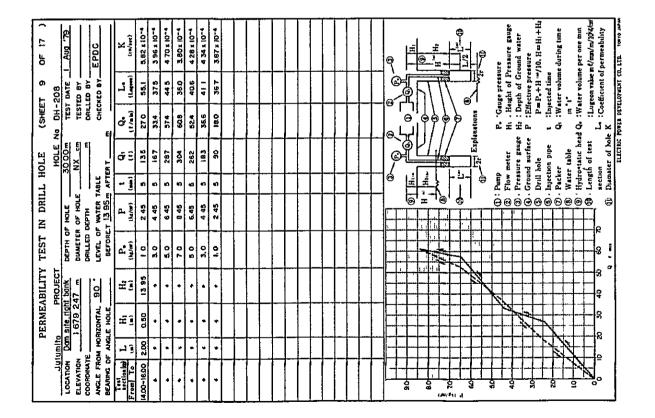


OF 17	31 Jul '79		K	3 10 # 10-4	3 59 ± 10-4	5 75 x 10-4	4 71 ± 10-4	6 03x 10-4	6 28x 10+4	7 461 10-4							2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	LIDCATION DOIL BITE TIQI ELEVATION 1679 2 COORDINATE 1679 2 ANGLE FROM HORIZONTAL	BEARING OF	Teat section (m) From To	12.00-14.00	·	+	*	•	•	•							

OF 17) 1 Aug. 79 EPDC	(1014) (1	Definition of the second secon
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	[] N	
UIU LOCATION LOCATION ELEVATION COORDWATE ANGLE FROS		

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0F 17) <u>31 Jul 79</u> EPDC	K 1.32 ± 10 ⁻⁴ 2.32 ± 10 ⁻⁴ 1.39 ± 10 ⁻⁴	D D D
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		Provide the second seco
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PERMEABILI mito PROJE Dom site, right bonk 1 679 247 m Horizowtal 90	H 3 0 · ·	8
PERME Julumio Locanton <u>Dom sile.rig</u> elevanon <u>Jon sile.rig</u> elevanos de avele pole.		



OF 17)	31 1.1 130		EPDC		K leafase	1 16 x 10**	1.09 ± 10 ⁻⁴	1 28 ± 10-4	1 29 × 10-4	1 48 × 10**	1 51 x 10-4	1 11 x 10-4	7 07 × 10 • •	1 27 4 10- 1										e							1/2/1		3	re E	. Height of Pressure gauge	Depth of Ground water	sure	10. H=H ₁ +H ₂		Water volume during time	-	Water volume per one min	Lugeon value in Umin/m/10-4/ca	 Coefficient of permembility 	- LTD TOX76 14764
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(SHEET	No DH-208	TEST	CHEC	ן נו	0.	54	92	15.6	20.6	32.0	242	13.6	60	00		_			T		Ī		T			e	ן ו נו ו	Ì				Explanations		P. : Gau			P.Effe	μ		N.: No				l ¥	ELECTRIC PUBLIC DEVELOPMENT CO. LTD
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IN DRILL		OF HOL	WATER	r <u>13.95</u> ,	P (*/*)	2 45	4 45	645	8 45	11 45	8 45	6,45	4 45	2 45												<u>ي</u> ا	9 æ	1		' () []		<u>.</u>	0	©	ы,	© 	9				9¢ 	€ -{	¢	,
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		ELEVATION	COORDWATE COORDWATE	BEARING OF	From To	18.00-20.00	•	•	•	•	•	•	•	•								110-		10.0		9.0			1	- 02 F						14 AL	30.4		201	-			0	1	

		PERME	PERMEABILITY	TEST	IN DRILL		HOLE	(SHEET	= =	OF 17)
In P	<u>Jutumito</u>	ļ	PROJECT			ľ	HOLE	-HO ON-	DH-208	
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COORDHATE ANGLE FROM	E H	VATE FROM HORIZONTAL	. 06	DRILLED DEPTH LEVEL OF WATE	5 2		E		CHECKED BY	EPDC
Test I	. Г			BEFONET					•	
From To	IJĮ.	H 🤅	Ë j	Pe (te/ari	F (inclosed)	ĵ,	5 E	ų. (C(mm)	Le (Leuni	n (reland)
16.00-18.00	2.00	0 5 0	1395	07	2 45	9	26	52	10 6	1 12 x 10 ⁻⁴
•	•	٠	•	3.0	4 45	10	57	114	12.8	135×10-4
•	•	•	•	50	645	10	182	36.4	28.2	298 ± 10-4
•	•	•	·	50	6.45	•	183	36.6	28.4	3 00 ± 10"4
•	+	•	*	30	4,45	*	102	20.4	22.9	2,42 ± 10-4
	*	•	•	10	2.45	•	22	10.4	212	2.241 10-4
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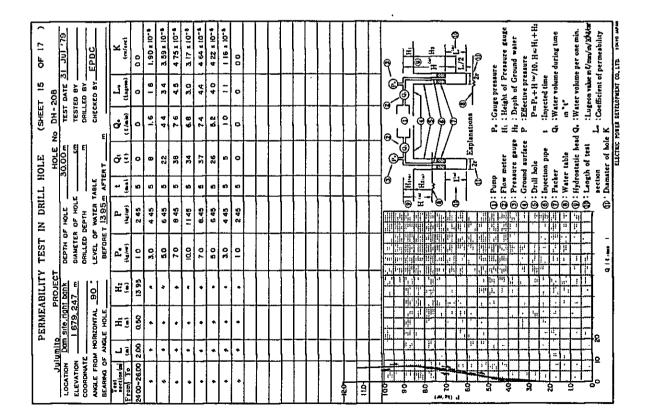
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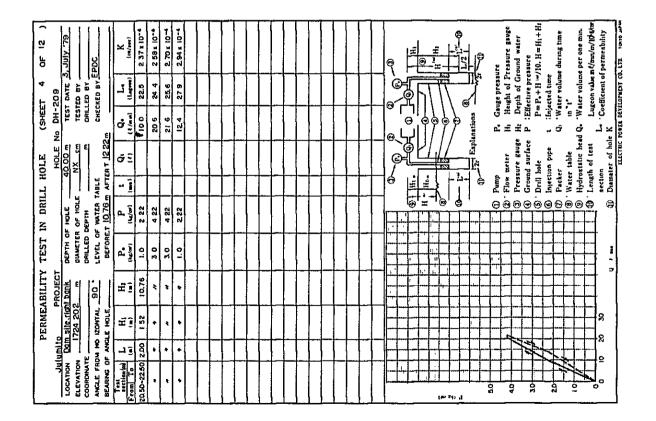
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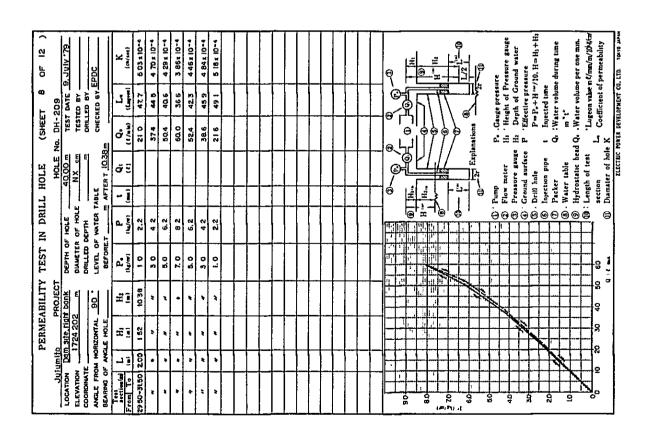


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	8 2 2 2		Ē	75	7.2	48	3.2	18	3.9	40	28	33	ļ								[]	$\overline{\Gamma}$	Ī			6	₩ 4		Gauge pressure	en of Gr	Effective pressure	+ H + d	Injected time	er volum.			Shevent of	OPMENT CO
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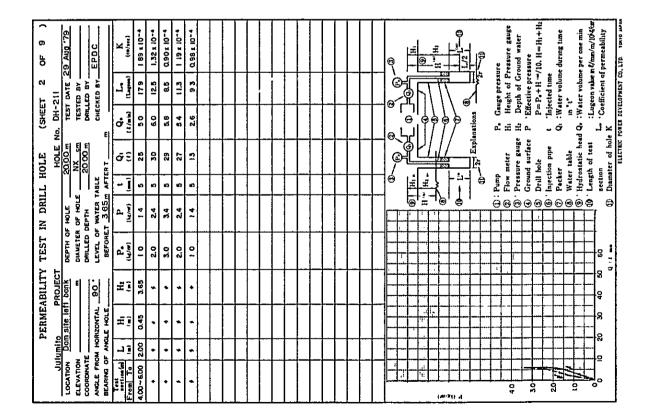
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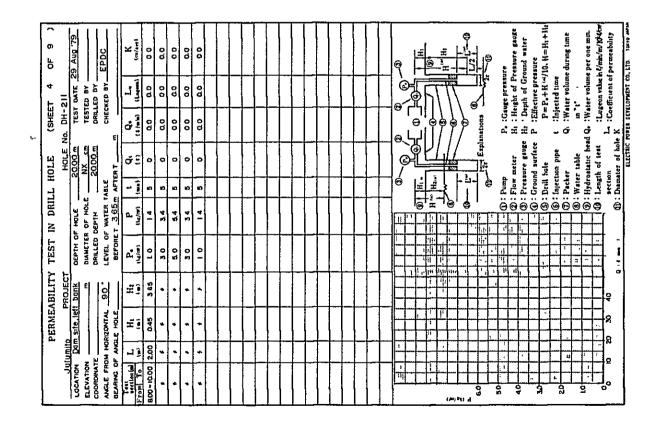
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(SHEET No DH-210 TEST DAT		ð	0.0	2.0	36	30	44	32	32	3.0	Q 6									,).	Г е Ц	ור פור ור				-	Explanations			Ê İ	۲ م	•	t .Taje	М: Ю				. F
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	불	- <u>]</u>	•	•	0	n,	10	2	2	10	ń				-				1	9	ł	Ŧ	HI	ł	-	ն- 	è	€		· Flow meler	Green	Drdl hole	Injecti	: Packer	Water	Hydro	- Sugar	section : Diamater
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OF 9)	62, DNY 62		EPDC	K (m/mt)	0 22 x 10-4	8.04 x 10-4	6 06 x 10-4	5 48 x 10-4	395 x 10-4	4 80 ± 10-4	706 k 10-4	7 73 × 10-4	1 23 4 10-1									D D D D D D D D D D D D D D D D D D D
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umit		 	N HOY	ЪĨ	01	-	•	•	•	*	•	*	-	╧	1	1	1					
Ju Lu	LOCATION	COORDINATE	ANGLE FROM HORIZONTAL BEARING OF ANGLE HOLE.	Test section (m) From To	12.00~14.00	•	•	•	•	٠	•	•			Ĭ							

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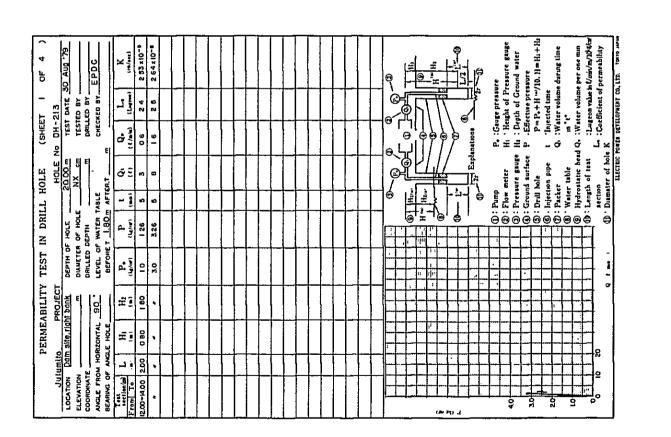
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		T ANGLE	1	2.00	*	•	-	-	1	٠	•	٠		Γ					
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3	ULUMIN LOCATION DOM SILF. TIG ELEVATION <u>0647,24</u> COORDWITE ANGLE FROM MOREONTAL BEARWG OF ANGLE HOLE.	Test section(a) From To 11.50~1700	•	•	·	•	• •	*									

OF 4) 30 Aug '79	20043	K 19 341 4 22 x 10 - 5	2 96x 10-5	1 16 ± 10-9	1, 06 z 10-5	1 16 ± 10-8	1 06 ± 10 ⁻⁵	C EVE ID-6					6		11,	0	H= H2	-	0- - - -		9 	ure	Height of Pressure gauge	: Depth of Ground water Effective bressure	PmP.+H */10. H=H1+H2		Water volume during time	Water volume per one min	 Lugeon value m l/mm/m/10⁴64m 	Coefficient of permeability DIVELOPMENT CO. LTD TOND APAN
N 13		ب 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	38		9	=	-	s .	3				G	- 1	5	7	T			_]][5 /		Gauge pressure.	ght of P	: Depth of Ground :Effective pressure	- H+•4	Intected time	er volum	er volum	con value:	ficient of OPNENT CC
N (S	E]	• • •	8	9 9	2.0	9	2	* *					© ©.	ר י נ	רי פ יי					Explanations _			ž :	Ξo.						. 15
HOLE	NX E	σΞn	o n (8 4	2	-	-	v) 9		2	#	/		ומי שני			meter	Fressure gauge Ground surface	hole	Injection pipe	l'acker Water table	Hydrostatic head Q.	Length of test	-
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Jul	LOCATION LUIE STREATS COORDINATE COORDINATE ANGLE FROM HORIZONTAL BEARING OF ANGLE HOLE,	Tast arction[m] From To 14.00~16.00	•	• •	•	•	•		- -							11-1-1					(4, 1 	2	40		9	Sp		2		



0F 4)		30 AUG 79		EPDC	к "к	5.07 ± 10-4	2 64 ± 10* 5	2.85 x 10*6	116 × 10-5	095 x 10*5	106 x 10 ⁻⁵	158 × 10-4	2.64 x 10-4	8 34 x 10 ⁻⁵							0		Ē		н <mark>-</mark> н-	T	<u></u>		ð /	ute	Beight of Pressure gauge	SSURE WALET	P=P_+H - '10. H=H_+H_z		Water volume during time	m t Water volume per one min	Lugeon value at "mm/m.]044=	Coefficient of permeability	ALTU TONIO LAPAN
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