ELEVATION COORDINATE	<u>110</u> <u>X:4</u> <u>Y:5</u>	<u>SITE</u> 3.87	.19				<u> </u>	DI CC DR	HOLE 150.00 RECTION OP HOLE 90° RECOVERY HILLING MACHINE RVATION OF CORE		M %	_ (_ (-211 COMMENCE COMPLETE DRILLED LOGGED B	D _ BY _ Y _	91 H.I I.V	- <u>11-</u> - <u>04-</u> 3asa /ard	15 04 ran al	2 of	
ELEVATION	ROCK NAME	501	CORE RECOVERY	+	WEATHER-	HARD- NESS				LUGEON	Ртах	[]	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	CRILL WATER	<u>6.₩.L</u> Øpt.H)	DEOTU
1 1 1 2 3 4 5 6 7 8 9 30 1 2 3 4 5 5 6 7 8 9 30 1 2 30 1 5 6 7 8 9 30 1 1 2 5 6 7 7 8 9 30 1 1 1 1 1 1 1 1 1 1 1 1 1	an a				3	3 3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 5 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Cracky zone ; oxidized joint surfaces Mainly fragments 25.5-26.0m, 27.0-27.2m, 27.7-28.3m Cracky C=4 Cracky zone ; oxidized joint surfaces, atteration in minerals. Mainly small fragments 32.6-33.1m piece core	Lu=8.2 Lu=4.8 Lu=5.3 Lu=1.1 Lu=17.5 Lu=18 Lu=53.4 Lu=50.7 Lu=24.8									چې ۲ 6 6 7 8 8 2 4 5 6 7 8 8 9 3 4 5 6 7 8 8 9 3 4 4 5 6 7 8 8 9 3 4 4 5 7 8 8 9 3 4 4 5 7 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10
9	عيباعيباليتناء	+ + + + + + + + + + + + + + + + + + + +				3 3 4	53												تتاريقتها ومعلقون

LOCATIO	-		SITE	<u>(RI</u>	GHI	<u>BAN</u>	<u>K)</u>				EPTH OF HOLE 150.00	· · ·	0	-	COMME		-)-11			
ELEVATI COORDIN		<u>110</u> X:4				:	<u>-</u>		<u>m</u>		IRECTION OF HOLE <u>90°</u> ORE RECOVERY		ž	- · ·	COMPL DRILL				-04 Bag	<u>-04</u> aran		-
			15884								RILLING MACHINE			1.1	LOGGE				Var			
N	7	Щ.	5		Ϋ́		12		·	1	ERVATION OF CORE			EST	ING		1		·			Ī
ELEVATION	DEPTH	ROCK NAME	L D	CORE	RECOVE	COLOR	WEATHER	HARD-	CRACK	EVAL LATION	DESCRIPTION	LUGEON	Pmax	р С	<u>DEP</u> RESL	<u>TH</u> ULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)	
063.87	40m			0 → 1 	100% 1111		-	3					Kgf	/cm²			ļ			%		1
.	ماليته		+				3 5 4	5	4	}	Fractured zone, oxidized joint surfaces.	4										
			•					3	3	1.		Lu=4										
	2		+									-				.						
	3		· +					2	2		Hard substick core, partially fragments,											
.]			+				3	5	5					 								
	4	hyry	+			L.W.		3	3			-			••							
.	5	Porphyry	+			uwo ra u		 .	<u> </u>													11111
	1111	- 1	+			Pinkish		3	з													11111
	6	Granite	+			p.					Many vertical joints	0							- -			LTTTT-
	7		+			÷.,						. 1 = n 1										LT LT
	8		+				3	.3	3							,						C LILL
1.1	لللالية		+				5	š	. S . :		Extremely shattered zone exidized joint surfaces, frequent feather joints.	Ю			ч.,						48.60m 꽃	Ę
	9 -		+				4	4	4			Lum.			-						(Final)	TTTTTTTTTTT
	50-		+			9							01	-			Bemm	 : 				1.1.1
		Db					3	3~	3		Diabase			- 1			¥9	:				ليتنايده
							3	3	3		Fracture surfaces are strongly oxidated.											L.L.L.L
	2		+	7			5,	\$	5				22				а.				н 1 1.	TTTT T
	3	·]	+				4	4	4			≖1.9										للتعقيل
			+						-			±117									•	بتبليب
	4	22.2	+			Ľ					Hard substick core.				•						* 	The second
	5 11	Porphyry	+			brown		•	2			1>n7										Tendar.
	6 - F	· · ·	+			Pinkish	2															The second
		Granite	+			Pin	,	2	3 1)		Oxidized joint surfaces,											سلانسيا
	7		+			- "		2 2 4 2	3		occasional feather joints	, [>n1					- 1					غيطين
	8-		+	鞩			з														•	L .
	يطلب		+	紃				: 													;	E Contraction
	9		+ +					3	4		Cracked zone	L'AY					- 				·	يليد بيليا
M3.87	<u>60</u>		+ 6		Ш .N		•	4.	-		Þ driffer u nate 4											Ē
		1	ľ.	1	N	tore los	1		i ®hard) I∼6 (d	isticki ∼5 (£o	Žisubatioki, 3 (pieco), 4 (fragment), 5 (grah) flj										LOPMENT	

OLUR LOCATION ELEVATION COORDINATE	<u>DAM</u> 110	3.87	S (RIGH				1	D	EPTH OF HOLE	: : : : : : :	D		COMMENCE COMPLETE DRILLED	D _ D _	90- 91-	- <u>11</u> - 04-	15 04	1 40	<u> </u>
···		15884	1.19						RVATION OF CORE			_	LOCCED B	Υ	1.1				T -
ELEVATION DEPTH	ROCK NAME	с Г С	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK SPACING	EVALUATION S	DESCRIPTION	LUGEON	Ртех		DEPTH RESULT	BIT TYPE	CASING	CEMENTATION		<u>G.W.L</u> (Øpt.H)	;
60r 043.87	n		0 ⇒ 100 ###	*		3	4				. Kgf	/cai				 	%	<u></u>	
1	Diabase			p,tr	3	4	2		Fractured zone	[>n]									ليتبعلنين بالتقريلا
3		+++++++++++++++++++++++++++++++++++++++			3	2 5 3	3		63.4-63.6m Cracky, C=4	Lu=1.6									بهائت والمالية والمراقعة والمراجع
4		+ + +	#X						Mainly sharp edged fragments	Lu=4.8									فيستعدا متسالين السيلين
6	e Porphyry	+ • + •		Ish brown	з		4		Fractured zone, exidized Joint surfaces, alteration in minerals,										
8	and under dram tee			Pinkish	1	3	3		Sharp edged fragments and places of core	1.9			-	-					فليقين المستعلم المستعل
70	معدلسيساسيماده		KIXXX		4		5		70,3-70.4m Highly weathered along	=n-1 T	10			\$86mm		-			وبديا مقعها المعاسما
1	Db			Der	3-6	3	3~4		the Joint	- Luc									ز المنام المراجع المراجع المراجع المراجع
3	dg dd dd			P.FT D.FT	4 3-4 3-4	3	5 00-5 00-5		Granite porphyry Sharp edged fragments	Tucl									بفقفا المتحديد فليتحتز ليغير
5					3 { 4	3	4 5 3		Crack surfaces are strong contated	Lu<1									
7	Granf te Porphyry			Pinkish grey	2	1	1		Some oxidized joint surfaces	Luci									
8	Gran			I	3	2	3		Hard, sound	Lu<1									ومناطر والتعالية والملاحد
9 <u>23.87</u> 60	1						ಗಿಖ್	l-6(a)	⊳driitor's note 4 J. 2 (audetick). 3 (piece). 4 (freqment). 6 (grein)	L.)) B ELOPMENT	1 1

ELEVATION	_11()3.87				1	L.	D	PTH OF HOLE <u>150.00</u> IRECTION OF HOLE <u>90°</u>			. (COMPLETE	D	91	-04	04		
COORDINATI			50.16 1.19						DRE RECOVERY				DRILLED LOGGED B	-					
ELEVATION DEPTH	ROCK NAME	507	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK SPACING	ROCK EVALUATION 55	DESCRIPTION	LUGEON	۲	EST	DEPTH	BIT TYPE	CASING	CEMENTATION	RILL WATER	<u>G.W.L</u> (Dpt.H)	
80 023.87	-		0 ++ 100	·	5	H	0	Ш Н				/cní					a %		
1	بساطيطمعيا				2	2 1 3	3 1 4		Cracky: some crack surfaces are oxidized.	Luci									بلصيه لتغييد لنقبر
2		+			3	2	1		llard , sound	 									يلمور بالتريين
3	under .	+			3	3	4 1 3		Fractured zone, oxidized joint surfaces	L'uci									وأروب فمرارب ومسارين
5	unhushnuh 				2	1	1		Fresh and hard stick to subslick core.	דיילו									ولعمر والمتبع بالعبيد
6	يعيليه فللبيط	+ + +			3	8	2			Lu<1								· · ·	بليعيد ليستاعين
8	ويعتليه	+ + +				3	3		Cracky but not exidated	11			-						نيتبيا بيكلوني
9	orphs	+++++		1 Srey		2	2		Hard,sound,some oxidized Joint surfaces,feather Joints in place.	Luc1	10			ßem					جنيء التقريبا تطبي
90	Grantee I	+		Pinkish	2		3			Lu<1				489					عبيبانسيبا يعينان
2	اسطنعاني	+++++++++++++++++++++++++++++++++++++++				1	1			1			· · ·						سعياء بعدليبينا
3	للبيليية	+				\$ 2	\$ 2			1>nT									المتعملين الم
5	***									Luzl									عديا يتعديه العينية
6	لسبطعيناه	++++			2		2		95.0-95.7m, 95.6-95.8m Craky, C=4										مقيعتنا يتسما
7	يبليبياب وا	+ + +			2 4 1 1 1 1 1 1	2	11 3 4			0=11									يليد ويلوفن ليو
9	سيبلغهم التعبد	+++++++++++++++++++++++++++++++++++++++			3		3			1,=43.25	8								ليتبعيك يصلحده
<u>)03.87 100</u>				¥	3	2-3		laticki ~5 (sc	N (Ref s note 4). 2 (substick). 3 (sloce). 4 (fragment). 5 (grace) f()	3								ð ELOPMENT	

HOLE No. SK-211 (SHEET 6 of 8) OLUR PROJECT 150.00 DAM SITE (RIGHT BANK) DEPTH OF HOLE m 90-11-15 LOCATION COMMENCED DIRECTION OF HOLE 90' 91-04-04 COMPLETED ELEVATION 1103.87 Ē CORE RECOVERY % COORDINATE X:4511860.16 DRILLED BY H.Basaran LOCCED BY I.Vardal Y:515884.19 DRILLING MACHINE OBSERVATION OF CORE TESTING CEMENTATION ROCK NAME BIT TYPE ELEVATION RECOVERY CASING DRILL WATE RETURN DEPTH HARD-DEPTH c CORE WEATHER-ING 50 LUGEON Pmex COLOR DEPTH RESULT 0 <u>G.W.L</u> (Dpt.H) å **EVALUAT** DESCRIPTION SPA 0 -+ 100 Kgf/cm % 100m 100m 1003.87 Crack surfaces are strongly oxidated, 2 5 3 3 5 4 + 3 140 4 œ 1 oxidized joint surfaces (brown in colour) 1 2 Ę 5 + 3 2 2 $\mathbf{2}$ 2 + ഗ 5 2 842. + ١D э 3 3 .] 253 + 3 Vertical joints đ +Cu=0 +5 Б + 0 6 в t + Ľu=0 -+-7 7 2 \$ ï + Hard, sound, no oxidation 8 8 2 -+ ო Lu=2. Porphyry +9 9 Srey + ø86mm Pinkish 110 110 ÷ Granite ŝ 4 Ľu=2. + 1 1 . ÷ 2 2 + 2 Lu=2 ÷ Fractured zone, oxidized joint surfaces 112.5-112.7m,113.6-113.9m 114.3-114.5m,114.9-115.0m 115.3-115.5m Cracky, C=4 з Э 3 . ł ġ 4 4 ÷ + ŝ з ż L=u-1 ÷ 5 5 à 14 + 6 6 + ດ Lu=22 7 + 7 4 2 2 8 8 +Cores are broken into fragment because of b $\mathbf{2}$ 3 ÷ brown ٠ 5 3 \$ Lu=18 +- 9 9 4 ÷ + Vertical joints 2 2 983.87 + driller's note 4 Ø ł t EPDC i isticki. Zindaticki. Sloiecal. 4 liragmenti. 6 Igreini 1 (hard) - 5 (soft) 1 (frosh) - 6 (dscomposed) L-core loss ELECTRIC POWER DEVELOPMENT CO., LTD. t RQD

GEOLOGIC LOG OF DRILL HOLE

Page

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OLUR	PROJ	ECT	<u> </u>						· . · .		OLE No)	SK	-211			_(!	SHEE	<u>1</u> 0	<u>f 8)</u>
LOCATION			<u>(RIGH</u>							150.00				COMMENC					<u> </u>	
ELEVATION COORDINATE				···			<u>n</u>		IRECTION OF HOLE ORE RECOVERY					COMPLET			-04			
COMPTIMIE			1.19			<u>.</u>			RILLING MACHINE	<u>_</u>				DRILLED LOGGED		<u> </u> . .	<u>basa</u> Vari			
Z		ľ	T					OBSE	ERVATION OF CORE		T		EST		.	1				
ELEVATION	ROCK NAME	0	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIP	TION	LUGEON	Pmax	0	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	<u>G.W.L</u> (Dpt.H)	DEPTH
1201 983.87			0 -> 100 XIXIII	%								Kg	f/cni		1			%		120m
		+ + +				2	2				Lu=16.7									
3 -	~	+ • +			2		2		Fractured zone	- ovidium	u=16.2									-2
4 -	e Porphyry	+ + +		tsh grey		8	1		joint surfaces	5, OXIG128 5				н 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19						4
5 - - 6 -	Granite	4		Pinkish	3	3	۱ 2				T>nT									-5
7		+							Many vertical	joints.	1>n7								!	-7
8- 9-		+ + +				3	3		Crack surfaces oxidated	s are not	Luci								· · ·	-8
130	Rhyol 1 te			Grey	1 5 2	1 5 2	2					01			¢86mm					130
1	Gp	+ + + + + + + + + + + + + + + + + + + +		sh grey	1	1	2		Hard and sound core	f substick	>⊓T			· · ·						1
3-		+ + L		Pinkish	5	2					דיי<1								-	-3
4	Rhyol ite			Grev	1	1	1 5 2				1>n7		· · · · ·	· · ·						-4 -5 -8
2	Porphyry	+ · + · + ·		h grey		1 5 2	1 1 2 3		Fructured zone		0=N1									-78
953.67 140	Granite	+ • + • +		Pinkish	2	1	1 5 2				0=n7			· · · · · ·						9
				-core los: RQD	t		lhardl					- 4			ECTR				LOPMENT	· · · · · · · · · · · · · · · · · · ·

)

LOCATION ELEVATION	PROJECT <u>DAM SITE (R1</u> 1103.87 X:4511860.16 Y:515884.19	Ď				COMMENCED COMPLETED DRILLED BY	(SHEET 90-11-15 91-04-04 H.Basaran	8 of 8
ELEVATION	L O G CORE	RECOVERY COLOR WEATHER MG HARD- HARD- FRAATY	OBSERVATION OF CORE	אסוד	TESI XDU SE C DU E C	TING	CASING CASING CASING CASING DRILL WATER DRILL WATER DRILL WATER DRILL WATER DRILL WATER	₩.Ł ₩.Ł .t.H)
140m 963.87		00%	Ł		Kgf/cni			140n
2	· + · + · +		\$ 2	-	12077			1 1 2 2
3	Porphyry + · + · + ·	grey .	2	and sound }	_	ម 8 តុវាយា		- 1
6 6 7 7 7	Grentte	Pinkish	Generally hard frequent feath	er joints.		9 9		- 6 - 6 - 7
8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+++++++++++++++++++++++++++++++++++++++			r Tueo	_			
953.87 160			End of the Bord	ehole –				
2								2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
								1-4 1-1 1-5 5-5 1-6
7								
9 -			► dräter'e note <					- 160
		1 Idiard	l lalloki. 2 Gubetioki, 3 (pisce), 4 Hraqno D-5 laoru Geograpezzadi AP-3-38				DC () POWER DEVELOPME	NT CO, LTE

<u> </u>		 43.	87							RILLING MACHINE	T		ÉST	LOGGED B	γ · 1	<u>I.</u>				
ELEVATION	UEPIR ROCK NAME	5 5 1	CDRE RFCRVFRY		COLOR	WEATHER-	HARD- NESS	CRACK SPACING	ROCK EVALUATION		LUGEON	Ртах	٥Ч	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	<u>6.W.L</u> (Opt.H)	AFATU
069.72	Om		0	示 们				 		0-40cm stope wash		Kgf	/cni					%		E .
	1 1 2 3 3					3	3	4		Mainly 1-5cm gravelly cores, brown weathering remarkable. Many tight hair cracks in stick core.										مىسابىتىدارىيىرايىرىيايىيىلى مىسابىتىدارىيىرايىرىيايىيىلى
	4 .5 .6 .7					3	2	2		Remarkuble bra weathering along open cracks, generally cracks incline to vertical 8,50-7.0m remarkable ver tical crack with black coloured hematite.										7 5 8 7
	o 6 8 duuluuluuluuluuluu Porehvrv				White	2		1			Lu=14	10.6								م. 20 20 م. ماينا بيدانيونيغ استخداء متحاربيونا قريري
	o				MIIKY	3 2 3	N N	3 2 1		Many brown cracks. Generally good cores, but cracks brown, 10.95-11.45 somewhat cracky C=3 Good cores, but cracks bro cracks dip less than	Ture 1	10.8								دين من
	3 4 311111111111111111111111111111111111					2	5	1		45deg some tight hair cracks in stick cores. Generally good cores, incline to vertical	2 TU	1 10.9								and a second
	5 6 7							2		remarkable all cracks remarkable all cracks to vertical, all cracks brown to black. 16.0-16.50.18.00-18.50m somewhat cracky, C=3 17.00-18.00m vortical crack. Other cracks dip steeper than 45deg	1=12	1.2							· .	որ որ ունեն է։ Դերությունները
	8					2	2	3			Lu=8.4 Lu	11.3			- A- 					فتاعب بأغب فتلبس أعسبا سب

ELEVAT	'ION	106	9,72				2	1	DI	EPTH OF HOLE <u>50.00</u> RECTION OF HOLE <u>45</u>		:		COMMENCE COMPLETE						
COORDI	NATE -	X:4	51185	9.04					CC	RE RECOVERY		%	-	DRILLED						
	-		15843	1.87		<u>.</u>			DBSE	RILLING MACHINE	1	T	FST				vare S			<u>т</u>
ELEVATION	DEPTH	ROCK NAME	507	CORE RECOVERY	COLOR	WEATHER-	·	CRACK SPACING	ROCK EVALUATION	DESCRIPTION	LUGEON	Pmex	l	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATE	<u>G.W.L</u> (Dpt.H)	UEDTH
1049.72	20m			0 -+ 100. XXXIIII	*	ļ	 				-	Kgt	/cai				[%	·····	20
	1		- -+ -+			3	3	2		Generally good corcs, but cracks brown, 20.35-21.15 Horizontal cracks, Other cracks steeper than 45deg	0	11 5								د ار در استان ی ۵
	3 3 4		+++++++++++++++++++++++++++++++++++++++							Good cores, but all cracks brown, cracks generally steeper than 45deg 24,70-24,80 C=3-4 28,60-28,80 C=3-4 29,70-30,00 G=3	Lu=2.1	11.6								مىلىدىرا يىسايىرىك 4 يىلىدىرا يىسايىرىك
	15 - 10 - 11 - 11 - 11 - 11 - 11 - 11 -		+					S		28.60-28.90 C=3-4 29.70-30.00 C=3	Lu=0.1	11.8								- ամեսակուսելուե
	من 1 من المن المن المن المن المن المن المن ا	rphyry	+ + + +		White	2	2	1			Lu=7.2	11.8							• •	ومرابستا سياسيا
	8 3	Granite Porphyry	-+		MIIKY W						Lu=8.3	8 I I								ىرىيىلىرىيى بىرىيەر بىرلىرىيىرىيىرى
	30		+++++++++++++++++++++++++++++++++++++++					3		Cracky zone, all cracks brown remarkably Cracks vertical to steeper than 45deg 30.35-30.70 C=2 31.00-31.45 C=2 32.70-33.00 C=2	Lu=5.3	11.8								ىتىغاغىررا تىغالىمىرا مىنغاغارىرا
	33		+ + +			Э	2	۲ ۲			Lu=24	11.6								ىرىما <u>مىرىما بىرىمامىرىما</u> ن
	2 5 6 4 10 10 10 10 10 10 10 10 10 10 10 10 10		* + + -			3	2	2		Somewhat crucky, hair crucks remarkable, vectical to steeper than 45deg.slickenside at 35m,	Lu=25	11.8								4 5 5 5 <u>5</u>
	8 8	931	+ ↓ ↓		Grey			2		Generally good, but cracks brown 39,80-40.00 C=3-4 hair cracks remarkable	Lueg. 5	11.8								8 7 ملين السياريين
029.72	9 10	Diabase			Dark C	3	2	3			£,8=bJ	11.8								و. مىسانىسىلىسىرا
								ihar d	(slick) - 5 (ac locom)	▶ drEer's note 4). 2 teussticki. 3 tpiecel, 4 lfragmenti. 5 (grain) itt)) ELOPMENT	·.

		PROJ		E (RIGH						epth of hole		HOLE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0		<u>e-213</u> Comme		<u>.</u>	01	-05-		<u>f 3 o</u> t	<u>[3</u>]
LOCATI ELEVAT	-	<u>DAM</u> 106			I DAN		 ۱	1		RECTION OF HOLE					•	COMPL				-07-		<i></i>	·····
	-			59.04						DRE RECOVERY	·····				-	DRILL		~	Ē.(
÷.,	-		15843						DF	RILLING MACHINE	· · · · · ·					LOGGE	D BY	Υ	Ι.'	Vare	al		
ELEVATION	DEPTH	ROCK NAME	50	CORE RECOVERY	e e e e e e e e e e e e e e e e e e e	HER	0- NESS) CINC)BSE	RVATION OF CORE	PTION		LUGEON	Pmax	EST	OEP	TH	түрЕ	CASING	CEMENTATION	WATER	<u>G.W.L</u> (Opt.H)	DEPTH
ELE	ő	ROCI	[. _ .	S C C	COLOR	WEATHER- ING	NARD	CRAC	EVALU	DESCRIP	: .	. •	דתפ	Pm	a.	RESI	JLT	817	C7	CEME	DRILL	(Opt.H)	ä
1029.72	40m			0 -> 100%							· · · · · · · · · · · · · · · · · · ·			Kgf	/cni						%		40m
	1									Good corés, bu brown.Cracks 45deg dlp to Contacts betw Diabase are g tight, but at 50m, opened s remarkable ox 43.80-44.00	generally steeper. generally dim.44m licken wi dation. C=3-4	nd	Lu=17	11.8									1
	3 4	DIabase			Grey			4		45.80	C=3-4		Lu=1.1	11.8									3
	2 1 1 1 1	Porphyry &			White to	2	2	5			:		Luzz.0	11.8									5 6
	6	Granite			MILKY			2					Lu=0.6	11.8								·	
	8		-										. Lu=0.3	1.1 . B									8 9 مىر أورى المرجع
1019,72	50 1 2 3 4 4 1 3 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									knd of the Ho													
		1 ⁴ 4. 			-core los	А [6в 1	l I I (fresi	ម៉ា <i>អ</i> ាថ	fatick I~6fec lacom	l. 2 (eubatick). 3 (piece). 4 ifri aft)	symonV. 6 (yrsin)				: -						DEV) Elopment	CO. LT
		· ·		L	-ROD		:		·.	AP-3-	41					. :					: * *		. *

ELEVATION	DAM 106	<u>SITE</u> 9.66				Я	1	DI	PTH OF HOLE <u>80.00</u> RECTION OF HOLE <u>90'</u>		<u>m</u>	-	<u>-215</u> Commence Complete	D _ D _	<u>91</u> 91	- <u>07</u> - 12-	05		
COORDINATE			<u>6.14</u> .34						RE RECOVERY				DRILLED LOGGED B	_	Gu J.V		_	<u> </u>	
ELEVATION DEPTH	ROCK NAME	г 0 С	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	PACING		RVATION OF CORE Description	LUGEON	T	EST	DEPTH	BIT TYPE	CASING	MENTATION	DRILL WATER	<u>G.W.L</u> (Opt.H)	DEPTH
ω 			0 - + 1009		*	ž	5°∾	EV			L	/ent				B	a %		0
1069.66	المعاملية	· · · ·							0.0-1.5 Open excevation				· · · · ·						ا. مربط : منطلب : م
2	الم دينا بينا بينا	+ + + +			3	3	3		GP.Cores wethered, and all cracks brown, Many light hair cracks in stick cores.										N
3	والمنتقاليا بالعليم	+ • +					2		Genorally good, but brown cracks remarkable and many bair cracks										یں استانیں مراسیات
5		+ + + •			3	3	1		4.40-4.50 C=4 4.85~4.95 C=4 5.50-5.60 C=4										د: بىلىپىرايىيىلىن
6	مبليميايين فينقا	- + +							Good slick cores recov- ered, but weathering along cracks remarkable. Cracks generally-dip to vertical or steeper than 45deg.	L'11 =5	ÿ						1.1		لونسانيدياني الونسانيد
8	معمائية معاسبينا المسالحي	+ + + +		te			2		Many tight hair cracks. Stick cores between 13m to 14m somewhat sheared. Cracks at 8m,11.5-12m and 13m C=3-4	=56.25	ω								8 بىرلىيىلىر بىرلىيىلىر
10	Porphyry	• + +		dirty whi	3	3	ала - С - С - С			83 Lu									
1	Granite	+ + +		1.1 ow 1 sh			: 3			Lu=37	1 1944 1					:			ي. حاديديات مياري
3	يبعلين بعلت	+		Υe						Lu=36									فتأبيت بأنياب
	and a straight of the second secon	+ + +			3	3	3		Brown weathered eracks remarkable major cracks dip to vert.	u=43	10								ىيىتى بىلتىرىيىلىپىرلىي
б	uturu lu	• + •			3	3	2		All cracks brown. Cracks dip to vertical hair cracks remarkable. Good stick cores recovered, but tight hair	8									للتبعيلين
7	<u>المعالية الم</u>	• + •			3		1		Generally, cracks dip to less than 45deg.Cracks weathered to brown color.	Lu=31.2									يتفدينا وتستريقهم
8 9	ليتطليباطي	* + •			1	2	2			Lu=6.6									يدسكمنه للمسل
1049.66 20					1		+ 1 (hard) h) - 5 (d	~6(s			 	 		E F				B	E.

GEOLOGIC LOG OF DRILL HOLE Page HOLE No. SK-215 PROJECT (SHEET 2 of 4) OLUR 80.00 а___ 91-07-05 LOCATION DAM SITE (RIGHT BANK) DEPTH OF HOLE COMMENCED DIRECTION OF HOLE 90° COMPLETED 91-12-09 ELEVATION 1069.66 Ш COORDINATE X: 4511856.14 K CORE RECOVERY DRILLED BY Gur.Basara DRILLING MACHINE LOGGED BY I.Vardal Y:515844.34 OBSERVATION OF CORE TESTING CEMENTATION ROCK NAME WATER CORE RECOVERY BIT TYPE ELEVATION HARD-CRACK SPACING ROCK EVALUATION CASING DEPTH DEPTH Ċ WEATHER-ING LUGEON Pmax ö L COLOR -DEPTH RESULT <u>G.W.L</u> (Dpt.H) å DESCRIPTION DRILLY 0 -> 100, Kgt/cm % 20m 20m 1049.66 + Good cores recovered. Core conditions same with depth between 16m to 20m. . 1 Yn J + 1 Ŧ +t t $\mathbf{2}$ 2 + 3 1 ЧŅ Lu<1 + dirty з 3 4 5 2 \$ Yellowish 4 4 +œ Cracky zone at 25m. C=3. 2 2 Lu≓4. + 5 - 5 -ŀ 6 6 ø +Lu=4. 7 13<u>4</u>7 3 parallel oblique joints Joint surfaces oxidized. 34 2~ +3 11~2 ۰. 8 8 2-3~ +2 រព ស្រ \$ Porphyry ╉ Lu=3. 9 9 3 ł ۱ 0 30 30 t Q +3 \$ ø Grant ι + l=ul 2 2 4 2 2 +2 Lu≝3 -t з 'n ι 4 3 4 4 + 2 -1 1 -5 + 5 2 ١ 4 з з \$ 6 8 į ന 2 + 2 Lu=1 - 7 7 5 -+ - 8 8 Ъ. +0 ۰. 3-4 Fractured zone Lu=2. 9 9 2 1-22 • · ~ · Ŧ 1 1 1 1029.66 + driller's noto 4 | tetick), 2 (qubatick), 3 (pleast, 4 threquent), 6 (grain) EPDC Re. i l thard) - 6 (soft) | (frosh) ~ 6 (docomposed) FLECTRIC POWER DEVELOPMENT CO., LTD. -core icen t RQD AP-3-43

GEOLOGIC LOG OF DRILL HOLE HOLE No. SK-215 (SHEET 3 of 4) OLUR PROJECT DAM SITE (RICHT BANK) DEPTH OF HOLE 80.00 81 COMMENCED 91-07-05 LOCATION DIRECTION OF HOLE 90° COMPLETED 91-12-09 ELEVATION 1069.66 <u>m</u>___ COORDINATE X:4511856.14 CORE RECOVERY % DRILLED BY Gur, Basara DRILLING MACHINE LOGGED BY 1.Vardal Y:515844.34 CEMENTATION DRILL WATER RETURN **OBSERVATION OF CORE** TESTING ROCK NAME ELEVATION CORE RECOVERY BIT TYPE CASING DEPTH WEATHER-ING HARD-NESS CRACK SPACING DEPTH ບ 0 ROCK LUGEON Pmax COLOR DEPTH RESULT <u>G.W.L</u> (Dpt.H) 0 DESCRIPTION Kgf/cm % 40m 0 + 100. 40m 1029.66 +1 1 1 Luv1 + ۱ 1 152 4 ź ١ 2 2 +84 ł Lu=25. -4 з \$ ï ١ з 2 +4 4 + 2 1 3 253 1 1 2 80 80 ۰. +45.20m Luzi - 5 5 3 12 1 (Final) Vertical joint, undulated, rough, oxldleed,)-2mm elay infilling. 4 . 6 6 -5 4 з 2 ю 0 s ٢ ŝ Lu=16 + 7 7 4 3 3 4 8 8 +4 Porphyry Lu=1. + 1 1 9 9 s \$ ì ÷ 2 2 2 50 ់តល់ Granite +314 354 253 Vertical joint, oxidized 10 10 Lu=2. +1 ł 2 1 + V 3 \$ 2 2 + з 2 Lu=0 з 4 з 1 -+ 2 2 5 л 4 2 + ശ Ľu≡l. 5 +5 2 2 -ŧ ŗ ş 2 6 6 + 3 3 Lu=0 7 7 152 ÷1 t +8 8 344 253 2 5 3 ÷ ^c 253 253 Lu=11. 1 1 2 9 9 +. -+-23 2 1.2 LL COVE TORS 1009,66 I deller's pote 4 Helick), 2 (substack), 3 (piece), 4 (fraçment), 5 (grain) EPDC | # Ø t (hard) - 5 (soft) 1 (frash) - 5 (decomposed) ELECTRIC POWER DEVELOPMENT CO., LTD. t

Page

AP-3-44

OLUR LOCATION ELEVATION COORDINATE	<u>106</u> <u>X:4</u>	<u>SITE</u> 9.66	6.14		<u>K)</u>	Ŋ	<u>1</u>	D C(DI	EPTH OF HOLE <u>80.00</u> IRECTION OF HOLE <u>90°</u> DRE RECOVERY RILLING MACHINE	HOLI		11 %	-	-215 COMMENCE COMPLETE DRILLED LOCGED B	D D BY	91 91 Gu	<u>-07</u> -12- r.Ba Varc	05 09 Isari 1a1		<u>)(</u>
ELEVATION	ROCK NAME	с с г о с	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS		ROCK B	RVATION OF CORE Description		LUGEON	Pmax	est å	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	<u>G.W.L</u> (Opt H)	DEDTU
60	n		0 -> 100%		<u> </u>			<u> </u>				Xgf	/cai			-	2	۵ %		6
1009.66	يت بخا يسيم بلقيتينا بعدي	+ + + + +			N-0	-2 2 2 2 2 2 3 3 5 3	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		Diabase : less strong compared to granite		:>n1		:						· · · · · · · · · · · · · · · · · · ·	يتباسيانيسانيس
3	يا بعد الم من الم من الم	+ + + +			3	1	2 3			•	[>n]									որությունը 1970-1971-1971-1971-1971-1971-1971-1971-
4		• + + + +			27	34	2		l'ractured zone		Lu=2.8			 :						ىلىرىمارىسايىسارىيى مارىسارىسارىيى
6		- • + • + • +			314	2	3 3 5 4		Fractured zone		Lu≖2,78			•					· ·	ليوساندين الميترانيوي ا
8 9	Porphyry	- · + · + ·			2 1 3	1	2				Luci									ون (8 منبطة بسايسة
70 -	Grantte Por	$+ \cdot + \cdot + \cdot + \cdot$			2	1	1				Luci	10								متعليمينا ليصران متعا
2 -		+ + + + + + + + + + + + + + + + + + + +			20 10 10	1-2-2-1	200				IEI. 12									وي. بوغانيد وليونيا ويريا
4		+ + + + + + + + + + + + + + + + + + + +			2	1	2				Lu=4 Lu								i es	دى مۇرمۇرلىيەترلىرىدىلەر
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7 - 8 -		$\tau \cdot + \cdot + \cdot$			2 1 3 3 1	2	1 5 2 3 5 4		Fractured zone		33 Lu=4									17 1
989,66 80		+ + +	1. K		2	1	2 5 3		End of the Borehore		Lu=1.9								· · · · · · · · · · · · · · · · · · ·	
		. E		ore lose RQD	, t. ; 1 (1 (l freshi	l(s hardi-i ~5ideo	E (soi	2 (zubalick), 3 (piece), 4 (fragment), 6 (grain) (U mad)		· . ·	•	•. •.						LOPMENT	CO

LOCATI ELEVAT	10N _	103	0.05		BAN				01	EPTH OF HOLE <u>81,40</u> IRECTION OF HOLE <u>90°</u>			- -	COMMENCE COMPLETE	.D _	91	08 -10-	18	
COORDI	NATE		515880.0			: 	···· -	<u></u>	- 1	ORE RECOVERY		\$	-	DRILLED		<u>H.</u>]			-
· · · · · ·			512055.1							RILLING MACHINE	<u>,</u>	 T	EST	LOGGED, B					
ELEVATION	DEPTH	ROCK NAME	5 0 C	RECOVERY	COLOR	WEATHER-	HARD- NESS			DESCRIPTION	LUGEON	ртах	0	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)
1030.05	Om			• 100%								Kgf	/cnl					%	
	8 8 8 8 1 milian Juni Juni Juni Juni Juni 1 milian Juni Juni Juni Juni		డికి రిశివికి రిశివికి రిశివికి రిశివికి రిశివికి గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుండి: గుం							0.0-57.0m : Stope Wash 0.0-19.0m : Clayoy, sandy, gravelly silt : Clay : 10% Sand : 20-25% Gravel: 25-30% Silt : 40-45% All clay and some amount of silt are washed away. Gravol sizes vary from 0.4cm to 1.5cm, Gravels are gray in colour at the upper levels and originated from granite, diabase and rhyolite.									ويعولونه والموقا ومعالمين مال ومعالمون
	6 Granding		లి రి. ఇం రి. ఇం రి. ఇం రి. శార్ పి. కింది. సందాని కింది కి. సింది సింది కింది కింది																مروالا مروا الموريكين مبرل ورويا
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	8 8 8 8 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10		ား လူလူ အောင်လုံး လူလူ အောင်လုံး လူလူ လူလူလူ လူလူလူ လူလူလူ အောင်လုံး လူလူလူ လူလူလူလူလူလူလူလူလူလူလူလူလူလူလူလူ																عداريت بريان بريان المريين المريين المريين المريو برايا
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1010.05	20-1		llllainea V/	2			l		(atick) • driller's note 4 U. 2 (substick), 3 (piece), 4 (freement), 5 (grain)	••••••	L			EF			i Al	
					core los - RQD		, ifrost	ម៉ាង។ លិ	~5ist										ELOPMENT CO

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OLUR PROJECT							(SHEET 2 of	5)
LOCATION SPILLMA								
ELEVATION <u>1030.05</u> COORDINATE <u>X:85158</u>							91-10-18	
the second se	55.84		ORE RECOVERY					
			ERVATION OF CORE	·····		TING	S &	
ELEVATION DEPTH ROCK NAME	CORE RECOVERY COLOR	WEATHER- HARD- HARD- KARD- SPACK ROCK FVAI LATICIN	DESCRIP	REGN ROLL	P c P c	DEPTH RESULT	CASING CEMENTATION DRILL WATER (17.40) BRETURN (17.40)	DEPTH
20m 1010.05	0 👐 100%				Kgf/oni		% 2	:0m
للمسلم المسلم المسلما المسلما والمسلما والمسلما المسلما المسلما والمسلما المسلما			19.0-53.6m ; s gravel. Gravel between 3-7.5e are generally gray.light bro light pink in are generally originated fro diabase and rh Fines are gray Mostly clay.an silt are washe Silt : 10- Sand : 20% Gravel : 60-	M: Gravels dark gray, wn and colour:they angutar and m granite,				
8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
SIOPE Wash SIOPE Wash SIOPE Wash SIOPE Wash SIOPE Wash SIOPE 03:05 05:05:05:05:05:05:05:05:05:05:05:05:05:0						¢86.mm	• • • • • • • • • • • • • • • • • • •	
	Core less	l (hard)∼5 (a	» defler a pate 4 1. 2 taképülek). A lpiecel. 4 trregr sti nessed AP - 3 - 4				PEDC (#) IC POWER DEVELOPMENT CO.	

Page

HOLE No. DSA-217 (SHEET 3 of 5) OLUR PROJECT DEPTH OF HOLE 81.40 COMMENCED 91-08-23 SPILLWAY (RIGHT BANK) 0 LOCATION DIRECTION OF HOLE 90° COMPLETED 91-10-18 ELEVATION 1030.05 m % COORDINATE X:8515880.84 CORE RECOVERY DRILLED BY H.Basaran DRILLING MACHINE LOCCED BY I Vardal Y:4512055.84 OBSERVATION OF CORE TESTING CEMENTATION NAME CORE RECOVERY BIT TYPE ELEVATION CASING ROCK EVALUATION DEPTH DEPTH 65 TAW 1991 LUGEON Pmax 0 COLOR DEPTH å <u>G.W.L</u> (Opt.H) ROCK CRACK DESCRIPTION DRILL V HARD Kgf/cnl % 0 -+ 100. 40m 40m 990 05 1 1 2 2 3 3 4 4 5 5 6 6 44 .7 7 Wash 8 8 Slope 6 1111 9 ¢86mm - 50 50 1 1 2 2 з з Granite block a 4 Silty sandy gravel; Silt-sand : 15-20% Gravel : 80-85% Gravels are generally angular and medium and coarse in size. 5 5 6 6 7 7 la cuba ta bunda da Granite Upper levels are completely weathered. The section between 57.0-68.0 is argillirated. +Porphyry 4 4 8 8 \$ \$ 4 5 5 + 0.8 Granite 9 9 + 3 1 4 3 з 60 970.08 i dritter's note 4 1 (stick), 2 (substick), 3 (p EPDC 1 1 फ्रांस टॉ - 5 isofti I (freeh) - 5 (cecompose ELECTRIC POWER DEVELOPMENT CO., LTD. - cor e losa t ROD

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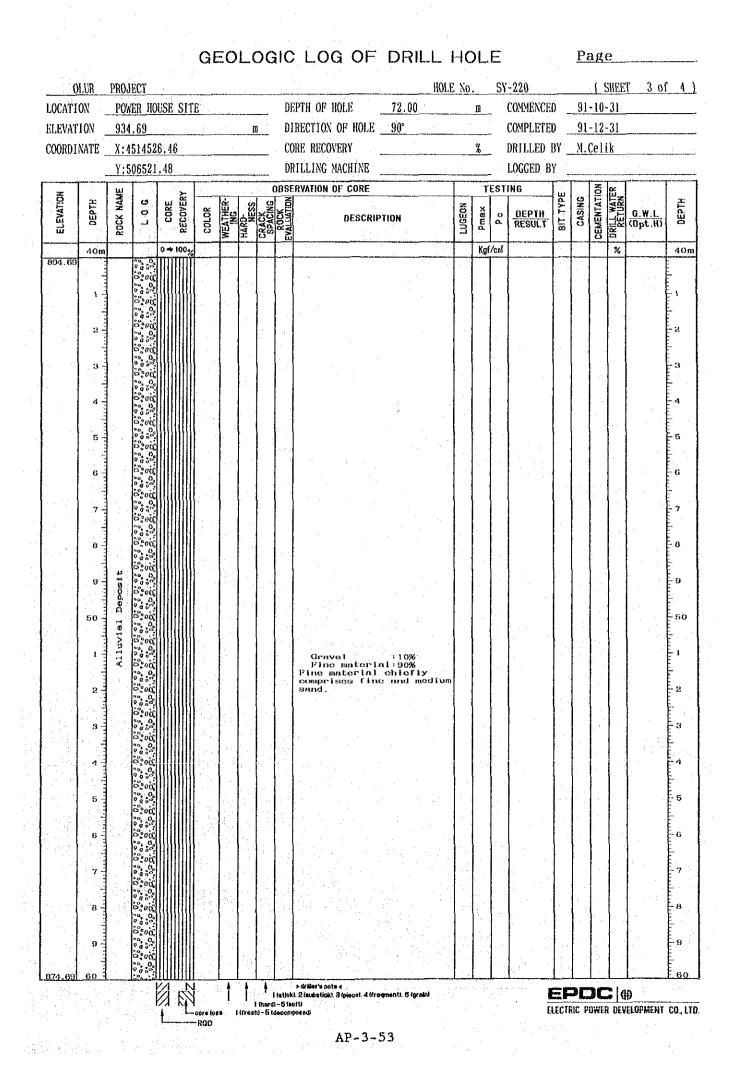
GEOLOGIC LOG OF DRILL HOLE Page (SHEET 4 of 5) HOLE No. DSA-217 OLUR PROJECT SPILLWAY (RIGHT BANK) DEPTH OF HOLE 81.40 COMMENCED 91-08-23 LOCATION D DIRECTION OF HOLE 90° COMPLETED 91-10-18 ELEVATION 1030.05 m COORDINATE X:8515880.84 CORE RECOVERY x DRILLED BY H.Basaran DRILLING MACHINE LOGGED BY I.Vardal Y:4512055.84 OBSERVATION OF CORE TESTING CEMENTATION NAME BIT TYPE EL EVATION WATE CASING RECOVERY DEPTH DEPTH G CORE HARD-HESS CRACK SPACING WEATHER-ROCK FVALILATIO LUGEON Раах COLOR DEPTH o <u>G.W.L.</u> (Opt.H) ů d ROCK | ORILL V DESCRIPTION % 0 = 100; Kgf/cnl 60m 60m 970 05 3 + 57.0-81.4m Granite: Light pinkish gray in colour occasionally displays the properties of microgranite(quartzite grains are coarse at the upper levels and fine at the lower levels.) + 1 1 9 4 • 3 2 2 ł 3 ł з з з \$. ٢ +. đ 4 + 1 4 . +5 б ٠. ÷ . 6 6 + Thin feather joints à ٠ + 314 7 7 Generally cracky ٠. + з ۰. 8 8 +4 . Orey. 3 Porphyry + 9 9 4 • Pinkish. + ¢88mm 3 70 70 9.00m (70.29m) + \$ Granite з 4 . Light + 1 2 . Fractured zone Thin feather joints 3-4mm clay infilling in some joints. + . 2 2 +• з \$ +з з з + • 4 4 5 $\frac{1}{2}$. + 4 5 5 4 • 1 . 6 6 8.75m (76.33a) + • $^{+}$ 7 7 э +8 8 . Oblique joint with 2mm clay infliling. + 2 . ł 9 9 . 2 5 3 354 Thin feather joints; hard, occasionally cracky. 2 -+-950,059 ลง • driller's note 4 | tatinh1 2 (autotick), S (slace), 4 (in septemb), B (gradel ł Î EPDC 0 1 shurdt - 5 laofti 1 strentu - 5 laofti 1 strentu - 5 laocomposed ELECTRIC POWER DEVELOPMENT CO., LTD. -0074 1058 Ł -RQD

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)CATI (EVAT	-	SP11 1030	1.	(RIGH	r bank			<u> </u>		EPTH OF HOLE	81.40 90°			•	COMMENCE COMPLETE		91 91		23 18		ſ
ORD1	NATE				. ۲.	 				the second se					DRILLED						
			51205	5.84	1					TILLING MACHINE				EST	LOGGED B		<u>.1.</u>)				<u> </u>
ELEVATION	DEPTH	ROCK NAME	9 0 1	CORE RECOVERY	corog	WEATHER-	HARD- NESS			DESCRIPT	rion	LUGEON	Рмах	Po	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)	2010
0.05	80m	ĞÞ	 + +	0 + 1009	L.p.g	2	2	2					Kgf	/cm		¢76mm			%		8
8.65	2.7		•							End of the Bor	ehote		 								
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	9 1																		-	·	ومراسوسا
.05	100 1	1	·]		↓] }		1:		(#1;64) -6 (30	» driller 16 note 4 J. 2 (Indea lick), 3 (piece), 4 ffrequ	nienti. S (graini		L			EF) ELOPMENT	Ŀ

OCATI		<u>PROJ</u> POW		USE SI	E				DI	PTH OF HOLE 72.00		<u> </u>		<u>-220</u> COMMENCE	D_	91-			<u>Γ 1 οΙ</u>	
LEVAT	10N _									RECTION OF HOLE 90°			. (COMPLETE	D _	91	-12-	31		.
OORDI	NATE _			6.46						RE RECOVERY		x		DRILLED				<u>k</u>	<u>.</u>	<u></u>
		Y:5	06521	.48						ILLING MACHINE	<u>.</u>			LOGGED B	Y					
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ELEVATION	DEPTH	ROCK NAME	L.O	CORE Recovery	COLOR	WEATHER-	HARD- NES	SPACK	ROCK	DESCRIPTION	LUGEON	Pmax	Ö. A	DEPTH RESULT	BIT T	CAS	EMEN	RELLY	<u>G.W.L</u> (Opt.H)	
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			0 00 0 0 00							Clay and silt of fine material are washed away.	1									
	21		0,000							material are washed away. Sand resulting from mechanical grinding is					}					L. L.
	3 -		0°00 200							Sand resulting from mechanical grinding is observed in the sediment sample bags containing coarse cand	. 								н 	L.
			0°°00				1			Coarse sand. Less amount of gravel. Gravel (10% Fine material:90%					}					in the second se
	4		0.00							Fine material 90%	l									L.L.
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ELEVAT	-	934				····		<u>p</u>		RECTION OF HOLE					COMPLETE						
COORDI	NATE			6.46			·								DRILLED I	-			<u>k</u>		
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ELEVATION	DEPTH	ROCK NAME	L 0	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK	DESCRIP	TION	LUGEON	Ртах	ь С	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	<u>G.W.L</u> (Øpt.H)	DEPTH
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LOCATI ELEVAT COORDI	TON	934 X:4	.69						DI CC	EPTH OF HOLE <u>72.00</u> IRECTION OF HOLE <u>90</u> DRE RECOVERY RILLING MACHINE			-	COMMENCE COMPLETE DRILLED) 	91-	-10- -12- Celi	31		
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ELEVATION	DEPTH	ROCK NAME	L L	CORE	COLOR	WEATHER-	HARD- NES	CRACK		DESCRIPTION	LUGEON	Pmax	1	<u>DEPTH</u> Result	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Opt.H)	
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	81		Д		9	4		і З		clay infilling,										مدايد
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NOI	Н		5					т., (D₿Sĕ	RVATION OF CORE	<u> </u>	1	EST							Ī
ELEVATION	DEPTH	ROCK NAME	Г О	CORE RECOVERY	COLOR	WEATHER-	HARD- NES	CRACK	EVALUATI	DESCRIPTION	TUGEON	78mQ	ь В	DEPTH RESULT	BIT TYPE	CASI	CEMENTATION	DRILLW	<u>G.W.L</u> (Opt.H)	
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•	- - 		0°°°°°							0.00-60.00 ALLUVIUM : it consists of silty,sandy,										
	2		ိ ့ ၇၀ စ ္ ႏိ			i				blocky gravel; gravels are medium-coarse grained and gray, dark gray, brown, and greenish gray in colour. Maximum block size is		- N - 2							- ^{- 1} -	È.
	3	 · .	0,00							Maximum block size is 15cm. Gravels and blocks are originated from										Lune -
			0,000							basalt, rhyolite, dlabase, limestone, and sandstone. Gravels are rounded and										Lulur.
·	4	1. 	0°,00							subrounded.									4.50m	
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		AL I	00°00							10-15% Silt-sand 60-65% Gravel 20% Block										غليبينا
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			93503.							RILLING MACHINE					LOGCED BY			<u>ı Bay</u>		1
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ELEVATION	DEPTH	RDCK NAME	0 - - -	CORE RECOVERY	COLOR	WEATHER-	HARD- NES	CRACK	ROCK EVALUAT	DESCRIP	TION	TUCEON	Pmax	. · . ;	<u>DEPTH</u> RESULT	BIT TYPE	CASING	DRILL WATER	<u>G.W.L</u> (Dpt.H)	
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GEOLOGIC LOG OF DRILL HOLE Page (SHEET 3 of 8) HOLE No. Ni-101 AYVALI PROJECT 160.00 <u>n</u> COMMENCED 82-11-16 DEPTH OF HOLE LOCATION DAM SITE (RIVER BED) DIRECTION OF HOLE 90° COMPLETED 83-03-01 ELEVATION 810.54 m DRILLED BY ____I.Teke CORE RECOVERY X COORDINATE X: 4514563.34 LOGGED BY Sukru Bay Y:493503.80 DRILLING MACHINE CEMENTATION DRILL WATER RETURN OBSERVATION OF CORE TESTING ROCK NAME CORE RECOVERY ELEVATION CASING DEPTH DEPTH U, LUGEON Ртах COLOR NEATHER <u>G.W.L</u> (Dpt.H) 0 å DESCRIPTION % Kgf/cm 0 + 100 40m 40m 770.54 1 í 2 2 з з 4 4 5 Б 6 6 7 7 8 я 4 9 9 Depos 1 1 50 50 -Alluvial 1 Į. 2 2 3 3 4 4 -5 5 6 6 7 7 8 8 9 9 i therdi-5 lidet i fieldki. 2 (substicki. 3 (piece). 4 (fragment). 6 (grein) i therdi-5 lideti i fifreshi-5 (decomposed) 750 EPDC ELECTRIC POWER DEVELOPMENT CO., LTD. ---- RQD AP-3-57

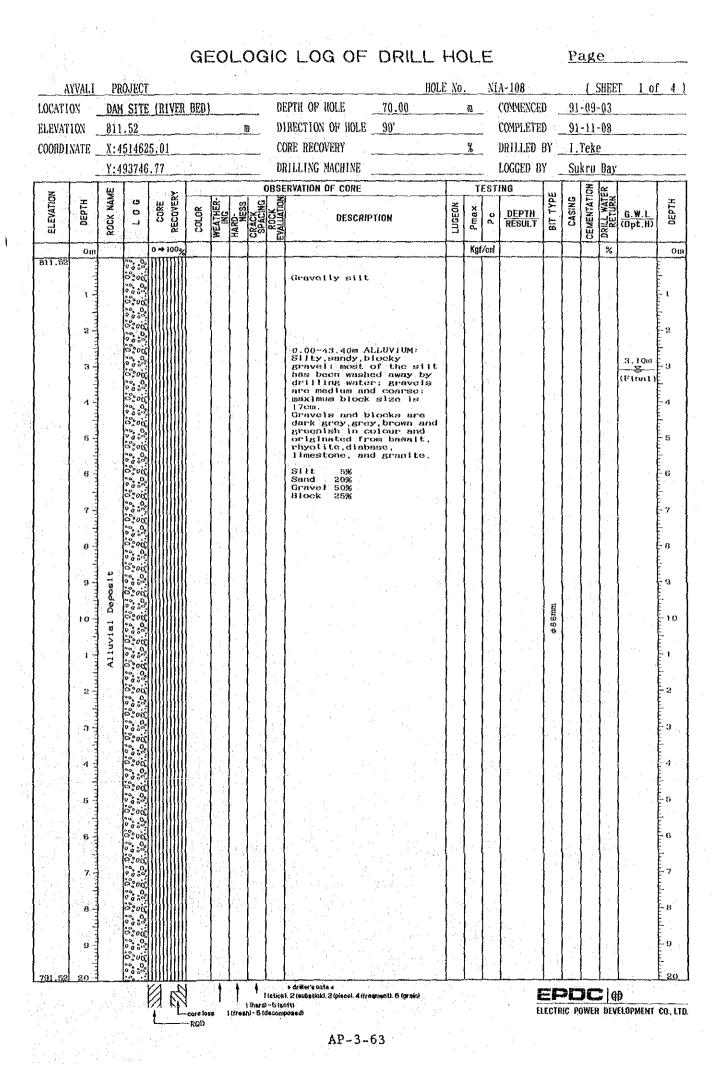
LOCATI ELEVAT				(RIVER)				. <u></u> 1		EPTH OF HOLE <u>160.00</u> IRECTION OF HOLE <u>90</u> °				COMMENCI COMPLETI				- <u>16</u> -01		
	-	<u>X:4</u>	51456	3.34						DRE RECOVERY	:	X		DRILLED LOCCED E		<u> </u>		Bay		
			9 <u>3503</u>							ERVATION OF CORE	<u> </u>	T	EST		 	<u> </u>	-			
ELEVATION	DEPTH	ROCK NAME	L O G	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS		EVALUATION	DESCRIPTION	LUGEON	Ршах	1	DEPTH	BIT TYPE	CASING	CEMENTATION	DRILL WATE	<u>G.W.L</u> (Opt.R)	
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			Х					23		Slickensided and polished surfaces, 0.2cm thick pyrite infilling (25deg)	E									
	4-		Д					2		63.3-63.5m C=3										
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			Х					3			Lu=7									
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		Volcanio	Д		Greenish				1	2mm gypsum on some joint surfaces, pyrite crystals	0							İ		لىرىيە <u>ل</u> ا
		^ /			U					in some joints, sulphur stains on rock cores,	Lu=0.	2		ļ		1.1				باليبينا
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	, c 1. i. i	. *	X			÷.	1			feather joints are greenish yellow in colour due to sulphur infilling.						ł	.	 		n lu
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		 -		n kri T	i - care la: RQD	в		1 (hard 1) - 5 (ofti spored									ELOPMENT	CC

A	YVALI	PR	OJECT	•								HOLL	<u>No</u>	•	<u>Ni</u>	-101				[_5	SHEE	<u>T50</u>	<u>[8]</u>
OCATI	0N .	DAM	SIT	C(RIVE	<u>R B</u>	ED)					EPTH OF HOLE 160.00			<u></u>	-	COMMEN	CED	_	82-	11	16	<u> </u>	-
LEVAT	·. 7		. 54			<u> </u>		l	<u>n_</u> .		RECTION OF HOLE 90°	<u></u>				COMPLE			83-				<u></u>
DORDI	NATE			3.34			_ <u>.</u>	<u> </u>				<u> </u>		%	-	DRILLE							
		<u>Y:4</u>	<u>93503</u>	1.80							HILLING MACHINE				-	LOGGED	BY						
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ELEVATION	DEPTH	ROCK NAME	0 	CORE		COLOR	WEATHE	HARD- NES	CRACK	ROCK EVALUATION	DESCRIPTION		LUGEON	Ршах	ů d	<u>DEPT</u> Resul		171	CASING	CEMENT		<u>G.W.L</u> (Dpt.H)	DEPTH
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LOCATI ELEVAT COORDI	101	DAM 810 X:4	<u>SITI</u> .54	E <u>(RIVER</u> 53.34	BED)			8	DI C(EPTH OF HOLE RECTION OF HOLE DRE RECOVERY RILLING MACHINE	160.00	<u>.</u>	01 %	- -	- 101 COMMEN COMPLI DRTLLI LOGGEI	VCED Eted Ed by	8 1	2-11 3-03 .Tek	-01		<u>f 8)</u>
ELEVATION	DEPTH	ROCK NAME	L D G	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS		J N N N	RVATION OF CORE Descrif	PTION	LUGEON	Pmax T	EST	ING <u>DEP</u> 1 Resu		CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)	DEPTH
718.54	100m 1		X X X X X X X X X X X X X X X X X X X				l 2 1	1		101.2-101.5m	H=2,C=3	Lu=0.2 Lu=0.1	Kgl	/cn					%		100m
	5	Breccia	XXXXXXXX		h Crev			1		Mostly sulphu occasionally greenish yell joints:gypsum joint surface	r stained, ancountered ow feather on obilque s.	Luzo Luzo.1 Luzo.1									5 5 6 7 8 8 9
	110	Volcanic	XXXXXXX		Greenish		5	2				Lu=0.2 Lu=0	10								110 110 1 1 2 3
	2. 5. 6		XXXXXXX				2	1		0.5cm gypsum in the joints and 116.30m.	infiling at 115:95m	1 Lu=0.1 Lu=0.1									5 5 7 8
690.54	9-		XX		core ios -RQD			fhard				<u></u> τu=0.1) ELOPMENT	CO., LTO.

	LOCAT I ELEVAT	FION	DA 81(<u>(SIT</u>).54	1.	R BED			<u></u>	D D	DEPTH OF HOLE <u>160.00</u> DIRECTION OF HOLE <u>90°</u>)		0	-	COMMENC COMPLET	ED ED	82- 83-	<u>11-1</u> 03-0	1	<u>f 8</u>)
	COMM	INALL		191451 19350:	<u>53.34</u> 3.80	·					ORE RECOVERY RILLING MACHINE	 		ž	-	DRILLED LOGGED I		<u>[]]</u> Suk			·
	Z		т	1	1					OBS	ERVATION OF CORE		T	т	EST		ŕ.		· -		 T
\rangle	ELEVATION	DEPTH	ROCK NAME	0 	CORE Recovery		WEATHER-	HARD-	CRACK	ROCK FVAI LIATION	DESCRIPTION	- - - -	LUGEON	Pmax	<u> </u>	<u>DEPTH</u> Result	BIT TYPE	CASING	CEMENTATION DRILL WATER	NAL G.W.L (Opt.H)	DEPTH
۰. ۲	690.54	120m		X	0 → 100 HHHH	*			1					Kgi	f/cnt					%	120m
:		1	Brecia			h Grey			3 1 3		120.5-120.7m C=3 ,121.1-121.3m C=3		1. 0=n7								2
5. 12		3 4	Volcanic	X X X		Greenlsh		1	3				Lu=0,1								3 4
		5 6	Ry	Ľ X		P.8			1		Sulphur stains become less and are observed occasionally,	9 1	Ľu=0,2								5
		7 111111111111111111111111111111111111	6 I	X X X				2	1				Lu=0.2								7
		9 9 130 130	Volcanic Breccia	X X X		Greenish Grey	1		1				Lu=1 .	10							-9 -130
		1 2 2	Vol			ō							Lu=0								1
				X L L				3	2				Lu=0.1								3
)		5 5 6	Rhyo11te			Finkish Grey		1	2				Lu=0.1								5
		7	Brecola	LXX		Grey		2	2		5cm Lhick sheared zone		Lu=0.2								-7
	670.54	9 1 1 40	n to			Greentsh		1 5 2	5		(45 dog) with polished surfaces		Lu=0.2			i					- 9 - 140
						core loss RQD	. 1		1 te hardi - - 5 (da)	tick). 5 (zof	2 laubatick). 3 (pisce). 4 tireqment). 5 (grain) ()							DQ POWI		H) /ELOPMENT C	:0., LTD.

AVVALI PROJECT				<u>Ni-101</u>		<u>(SHEET 8 of</u>	8)
LOCATION DAM SITE (R	IVER BED)		<u>160.00</u> m			<u>11-16</u>	<u></u>
ELEVATION 810.54			90'			<u>03-01</u>	
COORDINATE X:4514563.3 Y:493503.80			2 X	LOGGED		ru Bay	
f		OBSERVATION OF CORE		TESTING			
ELEVATION DEPTH ROCK NAME L 0 G CORE	RECOVERY COLOR WEATHER- MG		TION	x a o <u>DEPTH</u> E ○ RESULT	BIT TYPE CASING	CEMENTATION DRRL WATER DRRL WATER (H 140) 19 19 19 19 19 19	DEPTH
	100%			(gf/cni			140m
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e volcanto Brecota X X X X	Greenish Grey		ľ.u≃0.4				5 5 6
		2 2 3 3	Lu Lu L				-7
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	g1.g		1, 0 1, 0 1, 1				sector of sector se
Rhyol 1 te	þær	I Frequent feat with gypsum i	nfilling (N) N O H H				-6
		3 4 Fractured zon occasionally gypsum on fra surfaces.	e,				8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
650.54 160		End of the Bo	<u>an an a</u>		EPD	C (#)	F 160
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			93746						DN	ALLING MAC	HINE					ESTI	LOCCED B	У Т	Sul				
ELEVATION	RT430	ROCK NAME	L O G	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK		RVATION OF (ESCRIPTION			LUGEON	Ртвх	0 0	DEPTH RESULT	ΒίΤ ΤΥΡΕ	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)	
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771.52	<u>[40 -</u>	.	من من حمل 		1	-			l (stick) ~ 5 (s) > dr2lier's cote « (L 2 laubatick), 3 loi	iooel. 4 ifraqmetit).	. 6 (grain)		<u>Leve i e</u>	•	•••••••••		EF	۶C	ÌĊ	2 4	D	-

C C C C C C C C C C C C C C C C C C C	AM SITE(RIVER BED)	and the second sec	FH OF HOLE 70.00	<u>M</u>		COMMENCE		91-09		
A A <th></th> <th></th> <th>ECTION OF HOLE <u>90°</u></th> <th></th> <th></th> <th>COMPLETE</th> <th></th> <th>91-1</th> <th></th> <th></th>			ECTION OF HOLE <u>90°</u>			COMPLETE		91-1		
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1 1 <th>L C G CORE RECOVERY COLOR</th> <th>WEATHER- HARD- HARD- RESS CRACK SPACING ROCK EVALUATION</th> <th>DESCRIPTION</th> <th>Pme <</th> <th>bC</th> <th>RESULT</th> <th>BIT TYPE</th> <th>CEMENTATION</th> <th>RETU</th> <th><u>G.W.L</u> (Dpt.H)</th>	L C G CORE RECOVERY COLOR	WEATHER- HARD- HARD- RESS CRACK SPACING ROCK EVALUATION	DESCRIPTION	Pme <	bC	RESULT	BIT TYPE	CEMENTATION	RETU	<u>G.W.L</u> (Dpt.H)
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в s s s s s s s s s s s s s			roneino intact rock core; argiilization: rock fragments in clay							
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6 - A A A A A A A A A A A A A A A A A A			joints; sulphur stains on xore surfaces,						1:	ł
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		l futick), 2 I fnard) ~5 (soft) an l (fresh) ~5 (decompos			н 1914 -	· · · · · ·		PDC IC POWE		ið Ielopment

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	YVALI		OJECT																<u>f 4 of 4</u>	1)
LOCATI	-			RIVER						RECTION OF HOLE <u>70.00</u>				COMMENCE COMPLETE				<u>03</u> 08		
ELEVAT) COORDIN		811 X 4		25-01	:			<u> </u>		RECOVERY				DRILLED I						
.00011011			93746							NILLING MACHINE				LOGGED B		2		Bay		
Z		¥	T	<u> </u>				(RVATION OF CORE		Ţ	EST	ING	ш		NO	ŭ.,		-
ELEVATION	DEPTH	ROCK NAME	С О С Г О С	CORE RECOVERY		WEATHER-	HARD- NESS	CRACK SPACING	EVALUATION	DESCRIPTION	LUGEON	Pmax	Pc	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	<u>6.W.L</u> (Opt.H)	
751.52	60m		X	0 - 100»								Kgf	i/cm	:			·	%	<u> </u>	0 m
	A 8 8 A 8 4	a 10	X X X X X X			1	1	T		62.90m 3cm thick oblique gypsum Infilling									2 ع بايمينا بدينايينا يينيا مايمينا بدينايينا	
	6 6 7	Volcanic Breccia	X X X X X		Oreenish Grey	5	2	3		65,45m lem thick oblique gypsum infilling					¢66mm				15	
_741.52	8 9 		X X X X			1	1	1		End of the Borehole										×.
	is 1. S. S. S. C. S. J.																		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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OCATIO LEVATI OORDIN	ION	810	<u>SITE</u> .58 51453	: : :				0	<u> </u>	DI	CPTH OF HOLE 70.00 IRECTION OF HOLE 90° ORE RECOVERY		19 X		COMMENCEI COMPLETEI DRILLED I) _	91 91	-08-	02		
VUIDT			93558								RILLING MACHINE				LOGGED B	-	Su	kru	Bay		
ELEVATION	DEPTH	ROCK NAME	5 0 	CORE		COLOR	EATHER-	HARD- NESS			RVATION OF CORE DESCRIPTION	LUGEON	Pmax	est e	DEPTH RESULT	BIT TYPE	CASING	EMENTATION	RILL WATER	<u>G.W.L</u> (Opt.H)	DEPTH
	014	<u>~~</u>		0 + 10		_	*	Ť	50	EV		1	Kgl	/cnł	1			ö	а %		Ör
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	8 5 1111111111111																			2.60m 	
-	3 . 4 3	• .				-					4.50-4.95m mainly 5mm				<u>3.20m</u> №>50			-		:	3
	2 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0								coarse sand 6.00-6.45m mainly 2-5mm				<u>4,50m</u> N=14						د. منابعه ماروند ماروند مرابع
-	6 mpmpm 7 m										COarce sand,				<u>6.00m</u> N>50						- 16 7
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	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	l Deposit	0,00,00,00,00,00,00,00,00,00,00,00,00,0			: :					9.00-9.45m mainly 5mm coarse sand.				<u>9.00m</u> N=35					<u>1.75m</u> (9.45m)	10
	يدان مريدية برايد. منطق معطومة بال	Alluviel	0°0°0°0°0°0°0°0°								10.50-10.95m mainly 5mm confee sund.				10.50m N>50						م مراجع مراجع .
	ی الا منابع الا		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	<u>1.90m</u> (12.00m)	ىر تۇسىرىلىرىيايىيە
	ی ک 1000 ک		0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,0								13.50-13.95m mainly 5mm coarse sand.				<u>13.60m</u> N>50						4
			0000 0000 0000 0000 0000								15.00-15.45m 5mm coarse sand and 2-3cm gravel.				<u>15.00m</u> N>50						5 5
	6 7		00000000000000000000000000000000000000								16.50-16.95m 3-50m coarse sand,				<u>16.50m</u> N=23					<u>2.00m</u> (16.50m)	6 7
	a ann an trucha		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								18.00-18.45m 1-5mm stand.				18.00m N=32					·	8
790.58	9 20		00000000000000000000000000000000000000								19.50-19.95m t5mm sinard. >dramersenste∢				<u>19.50</u> m №33	<u> </u>			9 1 -	<u>2.25m</u>	- 20
					P.o.	re las		 {frest	l Iharo h) - G i	1 fatici 9-6 la decom	k). 2 (aubatiok). 3 (pisas). 4 (freemont). 6 (grein) aft) 1702019			•				· · · · · ·		Ð ELOPMENT	CO., L
			•	<u> </u>	R	rə laş QD	*	uresi	n ≀~ (G I		AP-3-67				E1					willi	

Page

ELEVAT COORDI		<u>X:4</u>	.58 51453 93558				(<u> </u>	C (Di	NRECTION OF HOLE ORE RECOVERY RILLING MACHINE			X	- .	COMPLETE DRILLED LOGGED B	BY _	1.	kru	Bay	
ELEVATION	DEPTH	ROCK NAME	г о с	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK SPACING	ROCK EVALUATION 5	ERVATION OF CORE	PTION	LUGEON	Pmex	D C	ING DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	<u>G.W.L</u> (Opt.H)
790.58	20m	~	00.00 03.00	0 → 100 _%		-							Kgf	/cm					%	
	ار م مار م		00°00 00°00 00°00 00°00							21.00-21.45m to fine sand	mainly silt				<u>21.00m</u> №25					
-			0.00 0.00																	
	2 1 	4	0 0 0 0 0 0 0 0							22.50-22.95m	1-5mm sand.				22.50m N=17					
	3 - 11		0,00°								:									
	. 4 . Liith		000							24.00-24.45m coarse sand,	mainly Smm				24.00m №23					
		:	0°,00 • 00																	
	10 11 11 11 11		C . 60 							25.50-25.95m coarse sand. Note: 20m to \$2-5cm \$					<u>25,50m</u> N=31					
	6 1		0,00							φ2−5cm ε φ10−20cm ε	ravels few.								:	
	2 T		0,000								an An Anna Anna Anna Anna Anna Anna Anna									<u>2.50m</u> (27.00m)
	8 P	: *	ο ο ο ο ο ο ο																	
	, 1971 - 1		0 0 0 0 0 0							28.50-28.95m conrse sand.	mainly 5mm				28.50m N=27		1			
	9	Depos1	0 0 0 0 0 0 0							30.00-30.45m sand,	1.1						:			
	30	al De	0 0 0 0 0 0 0 0 0 0							Note:30m to / mainly coars some gravels	sand,				30.00m N=33					
		1uv1							. .			.								
	- THE STATE	A1	0,00 0,00 0,00									 .					1			
	24111		0,00 •• ••																	
	3 1	i ei P	0,00							33,00~33,45m sand.	mainly 1-5mm				<u>33.00m</u> №=35					
	2 1 1 1		0,00																	2.35m (34.00m)
			0°00°							34.50-34.95m coarse sand.	mainly 6mm				34.50m N⊳50					(34.00m) 2,50m (34.50m)
	5.						 1 .				an an an an an an an an an an an an an a									
	6 -		0.00																	· · ·
	7 -		0,00 0,00																	
	مريطين		0.00							37.50-37.95m Smm	more than		j.	н 1	<u>37.50m</u> №=44					2.35m (37.50n)
	8		0,00,0								n de la composition Anticipation de la composition									
	9		00 0 0 0 0 0 0 0 0 0 0 0 0							39.00-39.45m	1-5mm sand.				<u>39,00m</u> N=25		.			9 20m
770.58	40		0,00			Ļ						L			 		•			2.30m (39.45m)
· · · · · · ·			ł					វោងសា	~6(4	> držiar's nato 4 kl. 2 (aubatick). 3 (pisce), 4 Hr lofti Ippezdi	esmenti. 6 (grain)			· · ·)C		B ELOPMENT
				t	care los - RQD			. 019		AP-3-	~~	• .		•••						

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	LOCATI	-	DAY		(RIVER						EPTH OF HOLE 70.00		<u>a</u>	-	-109 COMMENCE	D_	91	-06-	04		
Trol No No Solution Solution Test No No Solution Solution<			X:4	<u>5145</u> 3	9.28					CC	DRE RECOVERY			-	DRILLED	BY _	Ι.	<u> Teke</u>			
$40n$ 10° 2000 10° 20° 10° 10	z			1	r	Ť_				DBSE	ERVATION OF CORE	Ι	ĩ								1
4 on $2 or 4 or 3 or 4$ $4 or 4 or$	ELEVATIO	DEPTH	ROCK HAN	0	CORE RECOVER	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK		LUGEON	Ртах		<u>DEPTH</u> RESULT	BIT TYPE	CASING	CEMENTATI	DRILL WAT	<u>G.W.L</u> (Opt.H)	
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	770.58	40m		00.0	0 -> 100	%	<u> </u>		[Kgf	/cm							4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																2.35m (40.50m)	بر میلید مراجع
4 10 <t< td=""><td></td><td>2</td><td>sit.</td><td>0°0°0°0°</td><td></td><td></td><td></td><td></td><td></td><td></td><td>42.00-42.45m t-5mm soud.</td><td></td><td></td><td></td><td><u>42.00m</u> №30</td><td></td><td></td><td></td><td></td><td>2.50m</td><td>بر میں اندر میں اند ارمیا میں اندر میں اندر</td></t<>		2	sit.	0°0°0°0°							42.00-42.45m t-5mm soud.				<u>42.00m</u> №30					2.50m	بر میں اندر میں اند ارمیا میں اندر میں اندر
4 3 3 3 3 4 3 3 4 3 4 3 4 3 4 3 4 4 3 4 4 3 4 <td></td> <td>3 10 11 11</td> <td>al</td> <td>0,00,00,00,00,00,00,00,00,00,00,00,00,0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>coarse sand</td> <td></td> <td></td> <td>- 4. -</td> <td>43,50m</td> <td></td> <td>-</td> <td></td> <td></td> <td>(42.45m)</td> <td>عليسطيس</td>		3 10 11 11	al	0,00,00,00,00,00,00,00,00,00,00,00,00,0							coarse sand			- 4. -	43,50m		-			(42.45m)	عليسطيس
6 Solution Image: Solution of the second se		4	Al luvi	000							mainly coarse sund,									(14.255)	n share
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			• • •	0.0000							Rid of stuos do							н. 1		2.75m (45.00m)	لي من المسلمين الم من المسلمين
8 X <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>D.gr</td> <td>3</td> <td>э</td> <td>5</td> <td></td> <td>46.50m</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.50m (46.50m)</td> <td>E</td>				X		D.gr	3	э	5		46.50m									2.50m (46.50m)	E
$ \begin{array}{c} 9\\ 9\\ 50\\ 1\\ 2\\ 2\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\$		8		Х		~			3		chiolitization at pumices									<u>2.45m</u> (47.60m)	ليسيط من مراجع
50 X X 1 X X 2 X X 3 X X 3 X X 4 5 3 X 4 5 3 X 4 5 4 5 5 X 4 5 6 X 7 X 8 X 9 X		9 1 1	. •				S.	2	2										ъ		بىرلىرىيى بىرلىرىيىر
$\begin{array}{c} 3\\ 2\\ 3\\ 3\\ 4\\ 3\\ 3\\ 6\\ 7\\ 7\\ 8\\ 8\\ 9\\ 7\\ 7\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$		50	:	1.					 								. *			2.55m (50.00m)	ي. معديليون ي
$ \begin{array}{c} \begin{array}{c} $		1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19	Х							53.00m,53.80m,and 54.50-55.00m brn,but others fresh or gray color,chlolitization at pumices and remarkable									. ·	وتعاليته ويتابعه ويروي
		3		X										-						2.40m (53.20n)	بلوم بدانسين بلور بلوم بدانسين بلور
		4	Volcan	X																	ببراز ببراز معرز
		 		Х		Grey	2	2	l											3.40m	مى مى مى مى لىدى مى مى مى
		Letter				Derk														(56.00m)	فأحدده وترا
		8 1111 1111																		· .	ومراجع والمراجع
		6 11116		Х																	بذبعت أتتعميكم
760.58 60 + differencie 4 1 Block, 2 Bluebalick, 3 Gibboel, 4 Hragmantt, 6 Igrain) EPDC (#)	750.58	<u>60</u>		L			Ļ		<u> </u>	Ļ	some up to 70m,	L	L		L	<u> </u>				. 	Ŀ

GEOLOGIC LOG OF DRILL HOLE Page HOLE No. Ni-109 (SHEET 4 of 4) AYVALI PROJECT depth of hole 70.00 COMMENCED 91-06-04 LOCATION DAM SITE (RIVER BED) Ø DIRECTION OF HOLE 90° COMPLETED 91-08-02 ELEVATION 810.58 ົພ % COORDINATE X: 4514539.28 CORE RECOVERY DRILLED BY I. Teke Y:493558.85 DRILLING MACHINE LOCGED BY Sukru Bay CEMENTATION DRILL WATER DRILL WATER (H.TdO) TESTING **OBSERVATION OF CORE** ROCK NAME CORE RECOVERY ELEVATION CASING DEPTH 0 0 | H1430 HARD-LUGEON Ртах COLOR P C DESCRIPTION Kgf/cni 0 -+ 100. % 60m 60m 750.58 X 58,40-59.80m Vertical Joint X ł Д 2.65m 2 (62.00m) 2 2 X Д 3 з Ж Black Volcanic Breccia 4 4 Д 9 Х б 2 2 1 5 Grey Д Dark 6 6 Д Д 7 7 2.65m (67.30m) Д 8 8 X X 9 9 -Д 740.58 70 70 End of the Borehold ۱ ł 2 2 з 3 a 4 5 -5 6 6 3 7 я 8 ¢; 9 + driffer's nate 4 | inticki, 2 (substick), 3 tp/ EPDC | # acini, diffreementil, 5 (arathi l ihard)~5 (soft) I ifrem)~5 (decomposed) ELECTRIC POWER DEVELOPMENT CO., LTD. -core losa -ROD AP-3-70

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\mathbf{r}	(L)#	С.	

A	YVALI	PR	OJECT	<u> </u>				:. 		· · · · · · · · · · · · · · · · · · ·		LE No			-102				HEE	<u>T 1 of</u>	<u>`10)</u>
LOCATI				RIVER	BED)						200.00		<u>0</u>	-	COMMENCE		:	03-			
ELEVAT	-		<u>.37</u> 51475	51.26				<u>n</u>		RECTION OF HOLE DRE RECOVERY					COMPLETE DRILLED	_		<u>-07</u> Teke			
COMMI).00						RILLING MACHINE		· · · ·			LOGGED B	-			Bay		
ã		ME	Τ	₹					-	RVATION OF CORE			1	EST	ING	ų		LION	e E		
ELEVATION	DEPTH	ROCK NAME	L06	CORE RECOVERY		WEATHER-	HARD-	CRACK	ROCK EVALUATIO	DESCRI	PTION	TUGEON		1	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ā	<u>G.W.L</u> (Dpt.H)	DEPTH
928.37	Om			0 → 100g	í		. 						Kg	f/cni					**		Om
	1		X				<u> </u>	<u> </u>				1	ľ	Į	ĺ						
			X					4			·										
	2		X				2			Joint surface oxidized betw	s are high een	1.5									2
	3-1		X	3			5			0.50-36.20m.		1									-3
	:	0018	Ă		Grey		3	3						{							
	4 1	Volcanic Brecois	X					4													-4
	5	010	X		Greentsh	3		3													-5
	1	volov	X		ð			· .													
	6 1		X.					2)				-6
	7	• .	X		 		2	5													7
	8 1		X					3													-8
	والمنالية		X							ب ال 											
	91											Lu=30	01	1							-9
	10 -						2	3					L							9.50m (10.00m)	10
			{ L 					2			ter ter										
	1	· · :						2 5 3			. · · ·	Lu=31	10								
	2	1					2	ĺ								Í .					2
							5	з				36	0								
	3			<u>ä</u>	, Ye		3					Lu=35	14								-3
	4	lite			ù Grey			-				-	-	ł						<u>0.00m</u> (14.00m)	4
		Rhyol1te			eentsh	Э					•	Lu=38	10	}							-5
	5 1		L		5			2			· · ·	Lui								:	
	6						2	5				-		}						0.00m (16.00m)	6
	7 -		 L					3			at 17 40m	a Lu≈39	10				:				-7
		 								Oblique Joint with 0.5cm cl	ay infilli	83									
	8 -													 			 				-8'
	9	144 12	Ļ				1	2				Lu=38	0							· . ·	9
		•	L									13		1.						0.00m	
908,371	20 -	,			1	1	1			» driller's sale 4 3. 2 inubatick). 3 ipiecel. 4 ffre	içaenti, ő (grain)		-k :	.	5) C)C			ل_شي_ا
					`i ≈cr⇒ koi RQD	ia 1	tires	0 0 0 0 0 1 0 ~ 5 1	i-5(e (*****	ofti posesi	a da ara			5						ELOPMENT	CO., LTO.
n in in Second	· · · ·				· .				· .	AP-3-	71	÷.,				н. 	•		•	• •	

AYVALI LOCATION ELEVATION COORDINATE	DAM 928.	37 1475	(RIVE) 1.26					DI CC		200.00 90°			8	-	-102 COMMENCE COMPLETE DRILLED LOGGED B	D D BY	83-0 83-0 1.Te	7-06		<u>(10)</u>
ELEVATION DEPTH	ROCK NAME	50	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS		BSE NOLIV	RVATION OF CORE Descrip	TION		LUGEON	T X B E d	est a	ING Depth Result		CASING-			DEPTH
20m 908.37	Ry	L X	6 → 100,			2	-14 -14					37	Kgf	/cni				*		20m
2.4	sia	X X					2					Lu=37	10							2
3 10 10 10 10 10 10 10 10 10 10 10 10 10	nic Brecta	X X		Greenish Grev	3	2	•					Lu=36	07						0.00m	3
4	Volcanic	X X X		Qr6			з					Lu≖39	10	-					0.00m (24.00n)	4
6		X L L				2	2		Occasional fea between 26.00-	other jo -34.00m.	ints	95= 'u1	9						0.00m (26.00n)	16
9 1 1 1				Grey		3	3					78= UJ	s S							- 1.8
30-	Rhyol I te	L		Greenish G	3		1					Lu-33	10						<u>29,00a</u> (30.000)	- 30
2-						2	3					Lu=37	10							2
		۲ L X					2												(<u>3).00m</u> (54.00m)	a de cuel a
5 1 6	a 10	Х Х Х		8			2					Lu≡12	01							-5 -6
7	Volcenic Breccia	ጆ ጆ		Greentah Grey	3	2	2					L Smul	01						<u>27.50m</u> (37.20m)	یا مارید 8.
9 	Å,	Х Х Х					1					Lu=0.5	10							9 10 10 10
[<u>689.37]</u> 40 <u>4</u>				-core los) (free	hard	i~5 (a	» driller'n no'te « j. 2 (mûntink), 3 (place), 4 (fre aft) pogaat)	qmenti. 6 (grain)	· · · · ·	<u> </u>	·	••••••••				C (H) /ELOPMENT	CO., 110

A	YVALI		OJECT				<u>.</u>							-102				SHEE	<u>T 3 ol</u>	10)
CATI				(RIVI	1.1.1.1.1.1					APTH OF HOLE 200.00	<u> </u>	0	-	COMMENCE	-		- <u>0</u> 3-			
EVAT.	ION NATE	<u>928</u>				<u>.</u>	<u>[</u>	1		RECTION OF HOLE <u>90</u> °		%		COMPLETE DRILLED		<u>83</u>				
MINT	MAIL .	· ·		.00				- -		RILLING MACHINE			•	LOGGED B	~					
2				·					OBSE	RVATION OF CORE		T	EST		1	****	· · · · · · · · · · · · · · · · · · ·		r	
ELEVATION	DEPTH	ROCK NAME	507	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK SPACING	EVALUATION	DESCRIPTION	LUGEON	Ртах	о Ф	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)	DEPTH
38.37	40m		X	0 -> 100	<u>ж</u>	-						Kgf	/em	. 		 	5-83	%		40m
		۷Ъ	А. Ж		11111	3	5	2			10	0							1	
	1-		L								Lund	Ä								
	2-	Ø	1_		ALL S		1	1			┝								<u>39.50m</u> (42.00m)	2
		Rhyol te	L			3	\$	5			8. 10	0								n fares
	31	ЯЪ,	L		Greenlsh		2	2			ביח=0									3
	4 -		Ŀ		0						 					1:			<u>39.50m</u> (44.00m)	-4
			Х			1	1				19		. 1					1		
	5-		Х		1) .						Lu=19	10								5
	6 -		Ж				ľ	1			 									6
			Х				5	,			4								44 500	
	7		Х				2	2			Lu=2	10				-			44.50m (47.00m)	F 7
	8-	:	А											· ·						-8
	1		Х			3					φ			l						
·	9-	acta	Х		e l		4	4		Fractured, oxidized, highly weathered zone.	L≈n1	19	l i		l					19
	50	Breo	А				1	1			L									50
		Volcanic	Х		Greenish		ŝ,				0						 		į	
	1-	Volc	Х		l š		2	2			Lu=10	91	• •	1. 1.						
	2		Х		1		ļ				ļ		•	Į	l					
-			X				· .							· .				-		
	3-	a di se Ngan	Х			2	1	1			Lu=0 1	10								- 3 -
	4		Х			5	5	5			. 					ļ				4
			X			3	2	2						· · · · · ·	1.					
	5		Х								Lu=0	1 T	1.1							5
2	6																[a Barana.	-6
						•		:		Feather joints, joint surfaces oxidized and	-						ŀ			
	7				Grey	2		 		surfaces oxidized and brown in colour	Lu=0.	0								7
	8	khyol I te	L		XII		2	2										 		E E B
	1	Khyo			Greenish	3								[:					<u>د.</u>
	9-		ĻĻ		6						Lu=0	2	ľ							9
8.37	60		L					3		Fractured zone			 							E 60_
547-636LI	<u>****</u>			10	N.	1	1	ł	latio	» driller's note « k). 2 (autotick), 8 (piece), 4 (fragmeni), 6 (grain)					ĒĽ	<u>s</u> r	30		là l	

A LOCATIO ELEVAT COORDIN	[0]\	DAM 928	.37	E(RIVER			<u>[</u>	 1	DI	EPTH OF HOLE RECTION OF HOLE DRE RECOVERY	200.00		<u> </u>		-102 COMMENCE COMPLETE DRILLED	D _ D _	83 83	-03-	-21 -06	<u>f 4 ot</u>	<u>f 10</u>
			93540							RILLING MACHINE					LOGGED B	Y _	Šu		Bay		
ELEVATION	DEPTH	ROCK NAME	с г о с	CORE RECOVERY	COLOR	WEATHER- ING	HARD- NESS	1 /1	CK	RVATION OF CORE	PTION	1 LICEON		rest a	ING DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	<u>.G.W.L</u> (Dpt.H)	DEPTH
868.37	60m		X	0 → 100.							······································		K	pf/cm					%	·	60a
	1 2	-	A A A					2				< c-11 									2
	3 3 4		Х Х					3	-												3 4
	0 13 14 14 14 14 14 14 14 14 14 14 14 14 14		X X X			2		3				a 1	- F								15 15 16
	2. 1		Х Х Х				2	2				1 1 1									
	8 9		Х Х Х		sh Grey			3-4 8		Fracture betw and 69.10m wi slickensided clay and gyps	cen 68.95m th surfaces a um infilli	nd !	01								2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	70 -	Volcanic	А А Д		Greenish	3		1					- 1								ري 1 من اوسيا سيرا مير
	3 3 1		Х Х Х					2				1	- 1								3 3
	A 2 2		Х Х Х			3	3	2 1 3				21.5.1	101							- -	5 5 6
	6 – 7 –		Х Х Х			2	1	2		Vertical join 75.65-77.70m oxidized and surfaces	with									<u>69.20m</u> (78.00m)	,
848.37	80 80	٧b	X X X		a.er	က လြ	2 2 3	1												('78.00m)	9 80
		· · · · · · · · · · · · · · · · · · ·			- core los - RQD	1	(free)	l Geard	-5(\$	» driller's note 4 i. 2 (substick). 3 spince). 4 (fro oft) posed AP - 3						LECTR				DELOPMENT	

<u>Page</u>

	A	YVALI			S(RIVER	PED 1					of Hole	200.00	HOLE		m		- 102 COMMENCE	 n	83	(S -03-	<u>HEE</u> 21	<u>T 5 of</u>	<u>' 10)</u>
	ELEVAT				STUTYUU			1			RECTION OF HOLE					-	COMPLETE	-					
					51.26	-					DRE RECOVERY				%		DRILLED	BY	1.'	<u> Feke</u>			
			<u>Y:4</u>	9354().00						RILLING MACHINE						LOCCED B	Y	Su				
	NO	I	AME	G	ER Y		de:	6	~·		RVATION OF CORE			· N		EST	NG	ш с	54	ATION	WATER		H
	ELEVATION	DEPTH	ROCK NAME	0 	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK	DESCRIP	TION		LUGEON	Pmax	Ρc	DEPTH RESULT	817 TYPE	CASING	CEMENTATION	DRILL W	<u>G.W.L</u> (Opt.H)	DEPTH
	848.37	80m			0 -> 100.			ļ							Kgf	/oni					%		80m
	640.37			A X					3			· · · ·		-2									
			-	X				1.5	2					Lu=2	10							<u>68.00m</u> (81.30m)	
		2		X				3	5				:										-2
		3		X					3					C=n_T	10		÷ 1						
:			11 1	X							Fault zone be 84.60-85.85m	tween with gou	ige	Ч								69 000	
		4	:	Х				3	3		end clay infi	lling.										<u>68.00m</u> (84.00m)	4
		5		X							•			0=11	10								5
				X			2		3				ن بر ب										6
				X							.*	,		5									
		7		X X										Luci	10								7
		8-		X			5																-8
		9-2	010	X		ev.	.	i			Joint surface:	а аге		Lu=2	10	1.							- 9
•			Breocia	X		ť		.	1		occasionally brown in colo	oxidized	: क्यावे :	н									
		90		X		Green 1sh			·					S	-								- 90
		1	Volcanic	Х		Ore	3	'	5				. 1	Lu=l.	10								1
		2		X								· · · ·		н								<u>69.00m</u> (92.00m)	12
		4		X				2	2					1:									ي ال
		3		X X										1>171	10			·					- 3 - 1
		4		X X																		: 	4
ас 1944 1944		5		X								· · · ·		Luci	10								5
				X				3	3		Fractured zon	e	 	4								88 00m	
		6		X																		88.00m (96.00m)	-6
		7		X										רי<1	10								7
		8-		X					1		No oxidation depth of 96.4	after th Om.	ie i		. :								8
	a ta sa			X			2	2	2						0								
		9		X										ביו<ו	10			. 1			8 - L		-9
* : 	828.37	100		Á		ll N	•	[4	L	→driller's pote 4					L			 >F		 مُا •	75.00m	F 100
·* .						-core ic	••{		1 SHARE	8-54	(). 2 (public), 3 (place), 4 Hrd of U posed	-f-mait: a (2 .92)	•									D ELOPMENT	CO., LTD
			. : • . •			RGO	n. N	. •	•		AP-3-	75			· · ·			1: 					

GEOLOGIC LOG OF DRILL HOLE Page (SHEET 6 of 10) HOLE No. SG-102 AYVALI PROJECT 200.00 0 LOCATION DAM SITE (RIVER BED) DEPTH OF HOLE COMMENCED 83-03-21 DIRECTION OF HOLE 90° COMPLETED 83-07-06 ELEVATION 928.37 Ð % CORE RECOVERY DRILLED BY I.Teke COORDINATE X: 4514751.26 LOGGED BY Y: 493540.00 DRILLING MACHINE Sukru Bay **OBSERVATION OF CORE** DRILL WATER RETURN 9 00 1 400 TESTING CEMENTATION NAME BIT TYPE CORE RECOVERY ELEVATION HARD-NESS CASING DEPTH DEPTH Ø **JATION** LUGEON WEATHER-Ртах COLOR DEPTH σ р С DESCRIPTION ROCK <u>ل</u>ي: 0 - 100. Kgf/cm % 100m 100m 828.37 X $\frac{1}{2}$ Breccia عىلىيىلى 3 Grey Lu=5 Д ģ a ١ 2 Х Greenish 2 (Volcanic 2 2 Д \mathbf{z} 2 \$ Lu≈6 Д <u>в</u> Е 0 3 з Γ 2 4 Э L Pyrite crystals on joint surfaces. ï ~ L Lueg. 01 5 5 2 L 3 <u>69.00m</u> (106.00m) - 6 6 Ŀ з 1 1 1 1 L 7 ശ Ľ 3 L - 8 я L 2 я 38 s L 9 φ 9 з . <u>-</u> 3 110 110 Ľ 2 02=11 Greenish Grey 2 ł S. Rhyol 1 te 8 51 11 11 11 11 з L 2 ı Oblique Joint at 112.10m with clay and pyrite Infilling. Occasional surphur stains and solution cavities after the depth of 112.10m. 2 L 目 44 10 113.00 -L w (Final) з з 2 3 ł 1 4 Ŀ 1.41 L 5 5 ഗ 2 ż 1 \$ 115.00m² (116.00m) = 6 6 з L Lu=23 3 10 7 L 2 \$ I. ż 8 в L. _נΩ Lu=10. 2 9 L. 9 3 Ľ 37 Frider's nate 4 1 (stick). 2 (substick). 3 (pisce). 4 (fragment). 6 (grain) RQD EPDC + 1 (hard) ~ 5 (soft) 1 (fresh) ~ 5 (decomposed) ELECTRIC POWER DEVELOPMENT CO., LTD. L AP-3-76

		YVALI	PR	OJECT	` 						: :	HOLI	<u>3 No</u>	·		-102			<u>(</u>		<u>r 7 o</u> t	<u>f 10)</u>
	LOCATI	·	1		RIVE	-					EPTH OF HOLE 200.00				•	COMMENCE			-03-		<u></u>	
	ELEVA1 COORDI		928 x • A		1 26			0	<u>)</u>		IRECTION OF HOLE <u>90°</u> ORE RECOVERY			ž		COMPLETE DRILLED			<u>-07-</u> Ceke			
	COORDI	(INIL		93540		· · ·			i		RILLING MACHINE					LOGGED B			kru			
	ž									DBS	ERVATION OF CORE			-	EST							
-	ELEVATION	DEPTH	ROCK NAME	0	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK SPACING	ROCK	DESCRIPTION		LUGEON	Pmax	PC	<u>Depth</u> Result	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>6,W.L</u> (Dpt.H)	DEPTH
	808.37	120m		L	0 → 100%			[[Kgf	/cm					%		120m
		- 1 Lindender					-						Lu=9	10								
:		2 3	 .:						2				9≖n7	10	-					-		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
•••••••••••••••••••••••••••••••••••••••		4							5				4								116.00m (124.00m)	4
		5 6						2	3	1			Lu=4	. 10	-							5
		2											Lu=4	01				• • • •				
·		8 9		L		Grey			2				61=17	10				. :			<u>65,50m</u> (128,00m)	8
		130	Rhyol i te			Greenish G	1		-				=30 =					- 44 - 14 - 14				130
· .		2	:	L		6		5	2				1 n 1	(7)			-				113.00m (132.00m)	2
•		3					-	3	3				Lu' =40	S.								
		4 5							2 5 3 1		Sulphur stains and g on joint surfaces be 134.00-142.50m.	ypsum tween	Lu'=40	6 8 8							<u>114.00</u> (134.00m)	4 4 5
		6 7						2	2				Lu=10	10								-6
•		8 9		L L					1				Lu=0	10							<u>114.00</u> a (138.00m)	8 8 9
	789.37	140		L.				Ļ			> drifter's nate 4		[l	<u> </u>	<u> </u>		. 		Ľ		E 140
					96	-core los	1	- {fr.n.ef	therd	i~6(s	d. 2 isubstick). 3 ipiscel. 4 ifrequenti. 6 igrai	in) · · ·	- 		· · ·				IC DWER) ELOPMENT	CO., LTO.
		· · ·			!	-core No	- '	.,,	- 9H		AP-3-77							•				:

P	а	ø	e	
	œ	н.	<u> </u>	

A	YVALI	PR	OJECI	<u>[</u>						KOLI	<u>E No</u>		SG	-102		·	19	HEE	<u>r 801</u>	10)
LOCATI	ON .	DAM	<u>(SIT</u>	<u>E (RIVE</u>	<u>r ded)</u>			-		PTH OF HOLE 200.00		M	•	COMMENCE			-03-			
ELEVAT			.37	د . <u>د</u>			1	<u>1</u>	1.11	RECTION OF HOLE 90°			-	COMPLETE			- <u>07</u> -			
COORDI	NATE						;			RE RECOVERY		X		DRILLED I						
			9354().00						NILLING MACHINE			EST	LOGGED BY	r 	50		Bay		
N	E	AME	u	re rerv		à.	92	1 /8	Z	RVATION OF CORE	Z		281		ΥPE	NG	LATIO	IRNER		Æ
ELEVATION	DEPTH	ROCK NAME	0 L	CORE RECOVERY		WEATHER-	HARD-	CRACK	EVALUATIO	DESCRIPTION	LUGEON	Ртах	Pc	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ä	<u>G.W.L</u> (Dpt.H)	DEPTH
788.37	140m	<u></u>		0 ↔ 100.	(}	т., (<u>و محمد میں اور اور اور اور اور اور اور اور اور اور</u>		Kgf					i	*		140m
		 						2			ļ									
	1 -							3			Lu=0	10								-1
	2-		L :			1	2	Ľ										:		2
			L.			}				· · · · · ·										
	3	-	L.					2			Lu=15	01								3
			L.				ļ				1									
	4	· ·	L			2	3	ŀ		Shear zone between 144.60-145.50m with clay	[114.00m (144.00m)	-4
	5					5	5	3		and gypsum infilling; crushed (30deg)	3.5	0								-6
				8		3	4				Lu=3									
	61		h					2			<u> </u>									-6
	1		1 L					5												
	7				s d			3			0=11	10							114.00m (147.00m)	-7
			: <u> </u>											:					35.00m (148.00m)	-8
			L				}							•		•			(148.00m)	ц. Н - Н
	9-		L		Š	[.			Lu=0	0								-9
		1 te	L.		orey.	1	2		: 		1									
	150 -	Rhyol 1 te	L		Green1sh		[⁻		. :	Feather joints										- 150 E
	1	. R.			Oree			2			Lu=0	0		.			Į	ļ	:	
	1	•									Ĺ			i Ala ana	· . ·					
	2								· · ;										33.00m (152.00m)	Ę2
					[]. ¹		ļ	ſ			l o									1. ·
	3		L					· .			Lu=0	H		· · ·			Į			13 1
			L							Fractured zone		L	l	:	 :		l			4
						2	3	3		LI AULUI GU ZUNG			}					· ·		E ·
	5		L			11 1					Lu=0	2					1			5
			L				. · .						.						37 00-	
	6		L.)) 		.*	2					1						37_00m (156.00m)	E 8
]]					ante de la companya de la companya de la companya de la companya de la companya de la companya de la companya d La companya de la comp La companya de la comp	Lu=0	10]			1			
						1	2	2			13					1		[}	
	8-							3			-									8
					 			. ·	1	Shear zone between 158,60-158.80m with 3mm	0	2				1				
	9-	t Angel	{ L.			.		2	 	sypsum infilling and slickensided surfaces.	Lu=0	10	1	. · · .		.	· `			-9 -
768.37	1.60	1999. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	L						: ¹				[L		<u> </u>	1	Ľ	45.00	F 180
						1	1			» definere note « 1. 2 taubatick). S ipicoel. 4 tiregmenti. 5 lignaiti		1 1	÷					a 4		
ang kang sa sa Tang sa sa sa sa sa sa sa sa sa sa sa sa sa			· · · ·	1	" core ki RQD	59	l (froe	(10#0 N-51	9~5 (s 00000	0113 2003-0				1	LECT	RIC P	OWEI	{ DEV	ELOPMENT	CO., LTD
	s 1									AP-3-78						•				
د. منه میشند داری		e Ne si se	e Se Series	ې د تېنېد.			·			andar an an an Arran br>Arran an Arran an Arr Arran an Arran an Arr		•		an de Santa de						

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		1 4 4 4 1 4			
ч	GEOLOGIC	LOG	OF	DRILL	HOLE

COORDINATE X:4514751.26 Y:493540.00						:			DI	DRE RECOVERY			LOGGED BY				kru	e Bay		
ELEVATION	0EPTH	ROCK NAME	106	CORE RECOVERY	COLOR	WEATHER-	ARD- NESS			RVATION OF CORE DESCRIPTION	LUGEON	T Auex Luex	est.	ING DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	<u>G.W.L</u> (Dpt.H)	DEPTH
	160m	Į		0 → 100		3	Ŧ	<u></u>	Ш. Ш			Kgi	/cr/				5	۵ %		160m
68.37)						1	1			0=n_l	10					-			1 1
	2	1te			h Grey		5	1 : 2			0=n]	0							<u>46,00m</u> (162.00m)	-2 -3
	4	Rhyol1te	L		Greentsh	1	-				Lu=0	10					· 1		<u>44.00m</u> (164.00m)	4
	6						2	2 1 3			Lu=0	10					- -		<u>42.00m</u> (163.00m)	-6
	8	o la	X								ב 								<u>46.00m</u> (168.00m)	8
	9	lo Brecola	Х Х		Greenish Grey	1	2	2			Lu=0	10								-9
	170	Volcanic	A X		C. Tee	3	3	314		Fractured zone: Joint surfaces are weathered	1. 0 1	10							46.00m (171.00m)	-170
	2					3	3	3 3 4			1								<u>49.00m</u> (172.00m)	
	3							3 2 3			Lu≡0.	10								5
	4	1 te			n Grey					Oblique joint at 176.4 with 2,5cm gypsum Infiling	iOm nj	10								-1 -5
	6	Rhyclite	Ľ		Greenish	2	2	3		Inf Uling									71_00m (176.00m)	-6
	7-		L								Lu=0	10							85.00m (178.00m)	7
	9		L					2			Lu=0	10								9 9
<u>18,37</u>	180	L	<u></u>		Ш Ŋ		1	L	(latic.)	r Griler's note e 3. 2 (substick), 3 (pisce), 4 (fragment), 5 (grain)		<u> </u>	L	L	Ē))) C		<u>57.00m</u>	180

GEOLOGIC LOG OF DRILL HOLE Page_ HOLE No. SG-102 (SHEET 10 of 10) AYVALI PROJECT a _ DEPTH OF HOLE 200.00COMMENCED 83-03-21 LOCATION DAM SITE (RIVER BED) DIRECTION OF HOLE __90° 83-07-06 ELEVATION 928.37 £1 COMPLETED CORE RECOVERY X DRILLED BY 1.Teke COORDINATE X: 4514751.26 LOCGED BY Y:493540.00 DRILLING MACHINE Sukru Bay OBSERVATION OF CORE TESTING CEMENTATION DRILL WATER ROCK NAME BIT TYPE ELEVATION RECOVERY CASING HARD-DEPTH DEPTH ė CORE LUGEON Pmax WEATHER 0 0 1 COLOR DEPTH RESULT <u>G.W.L</u> (Dpt.H) o n DESCRIPTION SPACK EVALUAN 0 + 100 Kgf/crå % 180m 180m 748.37 Ľ Fractured zone: 2-3mm gypsum and elay on joint surfaces 354 3 з Lu=0 Ŀ 0 ı. L 2 57.00m 2 2 ł s 1 Lu=0 Ľ 0 -3 3 -2 Feather joints Ł 1 97.00m 4 4 0=17 2 0 L 2 - 5 5 2 s 1 3 3 105.00m 6 (186.00n) 6 6 ţ [u=0] 0 H ł 7 Sound rock and sulphur stains between 186.10-200m. 7 L 110.00m 8 8 2 1 Lu=0 <u>o</u> 9 9 Grey 2 ١ Rhyolite Greenish 100.00m 190 190 L 3 Lu=0 0 Ł 1 ļ 112.00n 2 (192.00m) 2 2 ł Lu≂C 0 з ∃ з ł ł 113.00m (194.00m) - 1 4 L Lu=0 ò 5 ธ Ł Ł <u>113.00m</u> (196.00m) - 6 6 1 L Tu=0 2 7 7 L L 8 8 L 1u=0 2 2 9 9 L 1_ End of the Borchole I (stok). 2 (substok). 3 (siece). 4 (fragment) B (grein) 1 (stok). 2 (substok). 3 (siece). 4 (fragment) B (grein) 1 (insrd) - 5 (soft) 1 (fresh) - 5 (decomposed) 728 37 200 EPDC | + Coro loss ELECTRIC POWER DEVELOPMENT CO., LTD. Ł ROD

AP-3-80

LOCATION <u>DAM SITE(RIVER</u> ELEVATION 868.2						E(RIVER BED) DEPTH OF HOLE 125.00 B DIRECTION OF HOLE 90°							-	COMMENC COMPLET			-10 -11		
COORDI				6.14						ORE RECOVERY				DRILLEC		I.			
<u>.</u> :		<u>Y;4</u>	<u>93597</u>	1.07	····-					RILLING MACHINE	7		-	LOCCED	BY	Su	kru		
ELEVATION	DEPTH	ROCK NAME	00	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK ALUATION	ERVATION OF CORE DESCRIPTION	LUGEON	1	EST a	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	RILL WATER	<u>G.W.L</u> (Dpt.H)
	Om			0 = 100		17- 17-			<u>.</u>			ļ	/cmi					0 %	
868.20	1 1			91717		4	3	4 3		As a result of hydrothermal alteration and weathering, joint surfaces are oxidized and									
- : :	8 8 11.121.1111		L			3	3	4		their colour is reddish brawn.									
	3		L L :											-					
	4 5 5		L			3	2	2		Mainly hard stick core. 2.6-2.7m,4.4-4.6m, 5.9-6.1m Cracky C=3-4	10 = 34	ø		•					
	9 		L L			3		3	-		. 								
-	71		Ľ.			2	3	3			Lu>25	10							
-	8 1 9		Ŀ		Å		1 -4	3 4		Fragments and 5cm core	Lu>25	10							
	10	Rhyolite			kten Gr	2	2	2		10.0-10.30m,10.6-11.3m Сгаску С=3-4									4.30m (10.00m)
	1	ц,	Ļ		Finkt	3	3	Э			0≃nT.	10							
	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							2		Joint surfaces are oxidized between 9.00-12.00m: pyrite and occasional gypsum. infillings in joints.	Lu=0	10							
	G Distriction		L			2					-13.6	10							7.70m (14.00m)
	9 21111111					5	2	2		Mainly substick core, 15.0-15.5m Cracky C=3	Lus								
	2 2 1 1 1 1 1		L			3	· · ·	3			Lum7.8	10							
	8 1 9										≖3.8	10					0.187		
848,20	20					•	+	4		» de Rer's note 4 . 2 la destación 3 de la de la deficiencia de la destación de la destación de la destación de la destación de la	Lu=3								14.10m
	si A		· · · · · · · · · · · · · · · · · · ·		ucra los	• •		(hard⊒ ∦~5(d	-5 (20	ft)		•							elopment c

LOCATI ELEVAT	•													(SHEET 2 of 2 83-10-01 83-11-30						
COORDI	X:4 Y:4	<u>5147(</u> 93597									DRILLED LOGGED B	_	BY I.Teke							
ELEVATION	DEPTH	ROCK NAME	507	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS		ð	ERVATION OF CORE Description	LUGEON		EST	1	BIT TYPE	CASING	CEMENTATION	DRILL WATER	<u>G.W.L</u> (Opt.H)	
848.20	20m		<u>L</u> .	0 → 100,	<u></u>			1	 .			Kg	f/cni					%		1
	1							2		Hard, stick core Small pyrite are observed on crack surface,	Lu=3.6	0								ر مىلىرىمىلىدىرىل
	2 11111		Ļ				2					-		ta a t						والسيدانية
	3		L) 2			L/u/l	10								ببيلينيا يع
1	4 1 1 1 1 1		Ľ				2	3		Fragments and piece core	1.6	0							<u>9.00m</u> (24.00m)	بعمليست
			L				5 3	4			61=nT	1							<u>15.25m</u> (26.00m)	المسلم المسلم المسلم المسلم
	7	.	L			2				Joint surfaces are oxidized and sulphur	Lu=17.4	10							(26.000)	مليبيالسي
	8-11-1		Ľ.					·		stalized and support stalined between 18.00-56.00m.										ي. براياري
	8 1	ø			rey		а. М	2			Lu=2.5	10		:						يې لىرىيلىرىيە
	30 m	Rhyol 1	L		Pinkish (5		11 5					- 1						17.00	ي. مارسين (ميري
			L. L.		4 1		2			32.0-32.9m Cracky.cross Joints, C=3-4	Lu=3	10							<u>17.00m</u> (30.73m)	
	2 3 3		L					3			Lu=1.3								a a na series na series	، میں اور میران
	4					3					Lus								<u>30.00m</u> (34.00m)	ما میں اندر انداز مارین ماریک
	9 Internet							4		2cm fault gouge, oxidized fault plane, gypsum(imm) and pyrite infilling, slickensided surfaces. (25deg)	Lu=1.8	10							(34.00m)	ي. مساليد باديد
	6						3													ى. ئىرىرلىرىرا
	7							1			Luel.2	10								t
- 4	8 -							2			1>17	10							31.25m (38.00m)	8
828.20	40		L							s di Marie nota «	۲ ۲						: .			-