# トルコ共和国

# オルトゥ川水力発電開発計画調査 最終報告書 付 録

1992年10月

国際協力事業団

鉱調資 CR(3)

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# オルトゥ川水力発電開発計画調査

最終報告書

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国際協力事業団

国際協力事業団 24348

#### Appendix

#### Contents

A-1	Power Demand Forecast and Supply Program
A-2	Meteorological and Hydrological Data
A-3	Geology and Construction Materials
A-4	Feasibility Design
A-5	Environment
A-6	Reservoir Operation Study
A-7	List of Data Provided by EIE

A-1	Power Den	nand Forec	ast and Su	pply Progr	am

# Development Plan of Electric Power of Turkey

V	Hydroelec	tric Power Station		Therr	nal Power Station	nazili dan Salui ganiyang mizari peli lan tanuning Aganig Langa, pinagra kanandin da hakili sangan Arti	Total	resignation delection — management medical delection of descriptions reserved in the management of the contraction of the contr
Year	Project	MW	G₩h	Project	MW	G\\h	MW	GWh
1995		10, 896	38, 624		11, 013	71, 466	21, 914	110, 090
1996	Total	0	, 0	Tunobilek A (L) Kangal 3 (L) Dogal (G)  Total	▲ 129 0 450	▲ 900 1,000 3,150 3,250	(22, 235) 321	3, 250
1997	Total	0	0	Elbistan A56 (L) Dogal (G) Total	2×340 2×450 1,580	2×2, 380 2×3, 150	(23, 815) 1, 580	11. 060
1998	Kayraktepe Berke Total	431 510 941	991 1, 663 2, 659	Elbistan B1,2 (L) Dogal (G) Total	2×340 450 1,130	2×2, 380 3, 150 7, 910	(25, 886) 2, 071	11, 569
1999	Birecik Boyabat Yedigöze Alpaslan Alpaslan Cindere	672 513 300 160 40 27	2, 516 1, 468 969 567 238 88	Elbistan B3,4 (L)	2×340	2×2, 380		
	Total	1. 712	5, 846	Total	680	4, 760	(28, 278) 2, 392	10, 606
2000	Akköpru Karkamcs	115 180	343 652	Cayirham 3,4 (L) Dogal (G)	2×150 3×450	2×1, 050 3×3, 150	(30, 223)	
	Total	295	995	Total	1, 650	11, 550	1, 945	12, 545
2001	Ilisu	1, 200	3, 833	Dogal (G) Ithal Komer (T)	2×450 2×500	2×3, 150 2×3, 500	(33, 323)	
	Total	1. 200	3, 833	Total	1, 900	13, 300	3, 100	17, 133

V	Hydroele	ctric Power Station		Thern	nal Power Station	MA CLU PROMIT COLUMN OF WATER COMMENT COLUMN TO THE COLUMN	Total	Meletik lainvista alia lainvista kata kata kata kata kata kata kata k
Year	Project	MW	GWh	Project	MW	GWh	MW	GWh
	OF Solarli	. 380	1, 000	Elbistan C1, 2 (L)	2×340	2×2, 380		
	Cizre	240	1, 218	Adyaman (L)	150	1, 050		
2002	Torul	103	322	Dogal (G)	2×450	2×3, 150		
	Uzunçayir	72	317		27/400	2 ~ 3, 130		
							(35, 848)	
	Total	795	2, 857	Total	1, 730	12, 110	2, 525	14, 967
	Deriner	670	2. 118	Elbistan C3,4 (L)	2×340	2×2, 380		
				Cayrham B1 (L)	340	2, 380		
2003	:			Dogal (G)	2×450	2×3, 150		
		7			27100	270; 100	(38, 438)	
	Total	670	2, 118	Total	4, 920	13, 440	2, 590	15, 558
	Borçka	300	1, 039	Cayrham D2 (L)	340	2, 380		
	Muratle	115	445	Anasra 1 (T)	300	2, 100		
2004	Yusfeli	540	1, 705	Dogal (G)	2×450	2×3, 150		
				Ithal Kömer (T)	500	3, 500		
						0, 000	(41, 433)	
	Total	955	3, 189	Tota1	2, 040	14, 280	2, 995	17, 469
	Beskonak	201	660	Soma C1 (L)	165	1, 155		
ļ	Artvin	332	989	Amasra (T)	300	2, 100		
2005				Dogal (G)	2×450	2×3, 150		
				Ithal Kömer (T)	2×500	2×3, 500		
						2 0,000	(44, 131)	
	Total	533	1, 649	Total	2, 365	16, 555	2, 698	18, 204
	Dilek-Gorolik	135	511	Dogal (G)	2×450	2×3, 150		
2006	Göktas	270	1, 160	Ithal Kömer (T)	4×500	4×4.500		
			1, 100				(47, 436)	
	Total	405	1, 671	Total	2, 900	20, 300	3, 305	21. 971
	Sanliurfa	50	124	Soma C2 (L)	165	1, 155		
	Aslancik	90	349		450	3, 150	·	
2007	Konaktepe	210	694		4×500	4×3, 500		
2001	Ulubat-Çinarcik	120	548	Ithal Komer (T)	4 ^ 000	4,70,000		
-	Camlica 1	131	515					
4	Camirica 1	101	212				(50, 652)	
The state of the s	Total	601	2, 230	Total	2, 615	18, 305	3, 216	20, 535
	10141	1 001	۵, ۵۵۷	10141	2,010		W. M.L.	₩V, 000

Vaar	Hydroeled	ctric Power Station	TO THE CONTRACT OF COMMENT AND COMMENT	Therm	al Power Station		Tota	1000 A
Year	Project	MW	GWh	Project	WA	GWh	MW	GWh
2008	Ermenek Hakkari	320 322	742 1. 043	Seyitomer B1,2 (L) Bolu (L) Dogal (G) Ithal Kömer (T)	2×150 150 3×450 3×500	2×1, 050 1, 050 3×3, 150 3×3, 500		
	Total	642	1, 785	Total	3, 300	23, 100	(54, 594) 3, 942	24, 885
2009	Alkumru Çetin Penbelik Dalaman-Bezkese	176 244 100 50	807 1, 100 313 205	Beysehir (L) Dogal (G) Ithal Komer (T) Nuclear (N)	340 2×450 2×500 1,066	2, 380 2×3, 150 2×3, 500 7, 460		
	Total	570	2, 425	Total	3, 306	23, 140	(58, 470) 3, 876	25, 565
2010	Özköy Gürsögot other 21	156 242 762	182 276 3, 370	Bolu Göynük 2 (L) Dogal Ithal Kömer Nuclear	150 2×450 3×500 1,066	1. 050 2×3, 150 3×3, 500 7, 460	(63, 286)	
	Total	1, 200	3, 828	Total	3, 616	25, 310	4, 816	29, 138

A-2	Meteorological	and Hydrolog	jical Data	

## Appendix: List of Figure

Fig.	A-2-1(a)	Correlation Analysis between Nos.23-24 and 2323
		Gauging Station
Fig.	A-2-1(b)	Correlation Analysis between Nos.2329 and 232
		Gauging Station
Fig.	A-2-2(a)	Correlation Analysis between Nos. 23-24 and 2329
		Gauging Station
Fig.	A-2-2(b)	Correlation Analysis between Nos. 23-24 and 232
		Gauging Station
Fig.	A-2-2(C)	Correlation Analysis between Nos.2325 and 232
		Gauging Station
Fig.	A-2-3	Relation between Monthly Average Temperatures and
		Monthly Evaporation of Tortum Power station
Fig.	A-2-4	Relation between Coefficient for Peak Discharge
-		and Catchment Area of any site

# Appendix: List of Tables

*	
Table A-2-1(a)	Natural Flow at No.2323 Gauging Station
Table A-2-(b)	Natural Flow at No.2323 Gauging Station
Table A-2-2	Natural Flow at No.23-24 Gauging Station
Table A-2-3	Natural Flow at No.2329 Gauging Station
Table A-2-4	Natural Flow at No.2325 Gauging Station
Table A-2-5	Observed Monthly Temperatures at Oltu Station
Table A-2-6	Estimated Monthly Temperatures at Tortum Power
	Station
Table A-2-7	Sediment Yield from Calculation for 16 years
	$(No.2325; C.A = 1,762 \text{ km}^2)$
Table A-2-8(a)	Sediment Yield from Calculation for 50 years
	$(No.2325; C.A = 1,762 \text{ km}^2)$
Table A-2-8(b)	Sediment Yield from Calculation for 50 years
• •	Flood Peak Discharges
	Flood Peak Discharges
エロレンせ おゃんゃろしひも	- E. T.O.O.G - E. E.D.V - P.T.D.C.HOT A.C.D

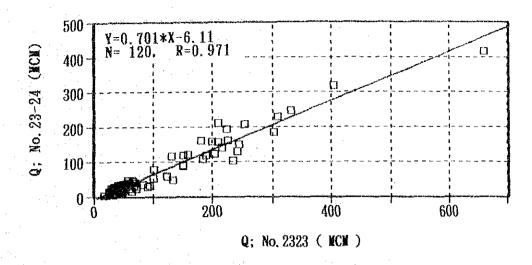


Fig. A-2-1(a) Correlation Analysis between Nos.23-24 and 2323 Gauging Station

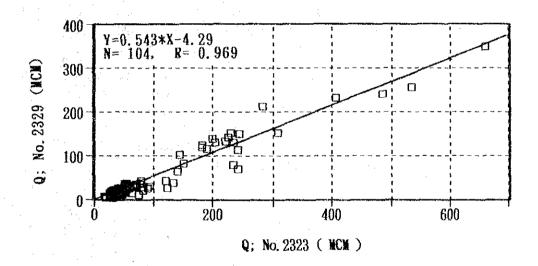


Fig. A-2-1(b) Correlation Analysis between Nos.2329 and 2323 Gauging Station

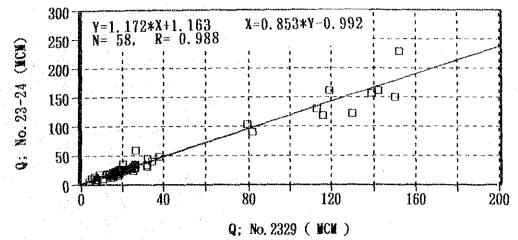


Fig. A-2-2(a) Correlation Analysis between Nos.23-24 and 2329 Gauging Station

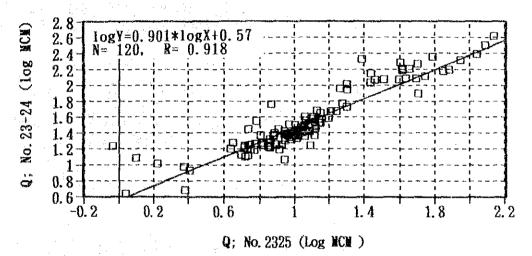


Fig. A-2-2(b) Correlation Analysis between Nos.23-24 and 2325 Gauging Station

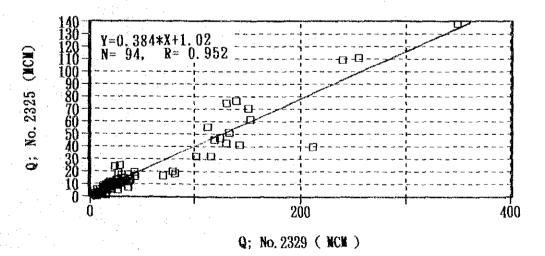


Fig. A-2-2(c) Correlation Analysis between Nos.2325 and 2329 Gauging Station

Table A-2-6 Estimated Monthly Temperatures at Tortum Power Station

1977 -4.9 3.0 2.	5 7.8	14.7	18. 2	22. 5	00.0					· · · · · · · · · · · · · · · · · · ·
1011	5 7.8		10. 4		23.3	18. 9	8. 1	7.0	-1.8	10.2
			17.9	25.3	22. 2	19, 6	12. 9	1.3	2. 1	10. 5
10.0	A 1A A	14.2								
1979 0.3 3.0 5.		14.9	17.6	21.5	25. 4	20. 1	11.4	6.6	0.3	11.3
1980 -0.7 2.0 4.		15. 7	20, 7	25.4	22.1	17.5	10.6	6.9	2. 5	11.3
1981 0.9 1.9 5.		12. 2	18. 7	24. 6	22.4	19. 7	13. 2	4. 2	3.8	11.2
1982 -1.1 -2.6 1.	7 10.5	14.8	20.0	22. 2	22.3	18. 4	11.1	2.6	0.4	10.0
1983 -1.3 -0.8 3.	4 10.4	14.6	18.6	24. 3	22.8	17.6	11. 1	6.9	0.8	10.7
1984 0.8 0.3 5.		12.9	18.8	22, 2	20.1	17. 1	10.9	5.9	2.8	10.5
1985 0.3 -0.1 -0.		17.1	20.7	22. 1	24. 7	17, 2	9.6	7.2	-0.1	10.8
1986 -0.8 -0.6 2.		11.3	18.3	25. 4	25.3	20. 1	11.8	2.4	-1.9	10.5
1987 0.4 0.7 -0.	The second secon	16. 5	19.8	23. 3	21. 6	17. 1	9. 7	3. 2	-0. 7	9.8
		13. 7	18.0	22. 5	21.6	17. 0	11.3	1.9	0. 4	9. 4
1000								4.7	-2.8	
	1 13.3	15. 4	20.6	24. 2	24. 6	17. 4	10.7	4. (	Z. O	10.3
1990							-			
Ave -1 A 0.3 3		14.5	40.4	00 5	00.4	18. 3	44.0	4. 7	0.4	10.5

Note: X>0 Y(Tortum p/s) = 1.136(Tortum) + 0.83 X<0 Y(Tortum p/s) = 0.8803(Tortum) + 0.83

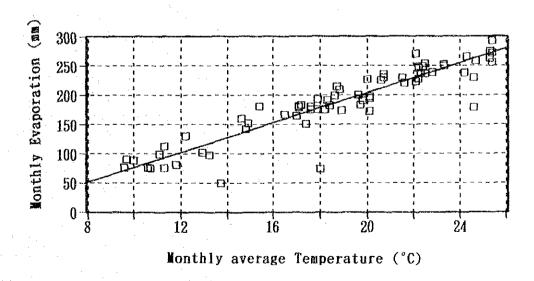


Fig. A-2-3 Relation between Monthly Average Temperatures and Monthly Evaporation of Tortum Power station

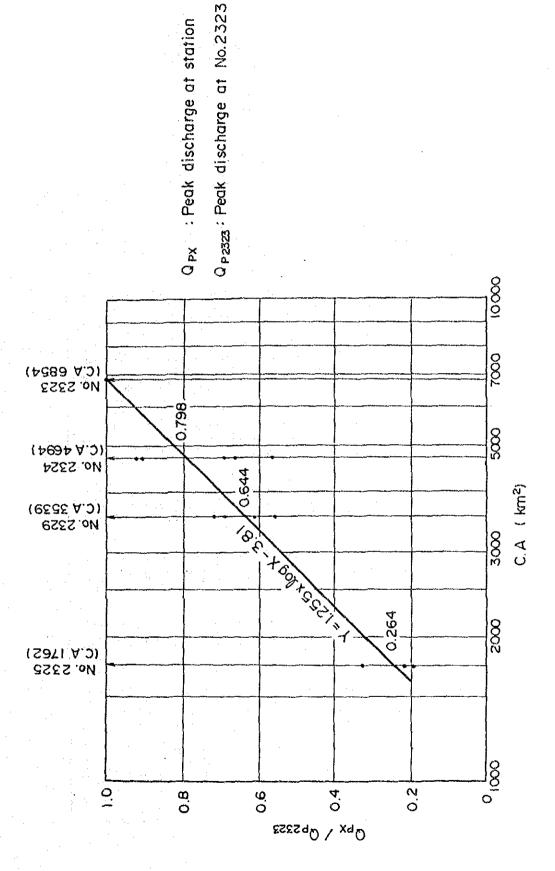


Fig. A-2-4 Relation between Coefficient for Peak Discharges and Catchment Area of any site

Table A-2-16) Returni Flow at No.2222 Cauging Station  Table A-2-16  Tabl			
Table A.2.1(a) Matural Flow at No.2223 Gauging Station  (Unit: Vear oot   Nov   Dec   Jan   Peb   Mar   May   Jun   Jul.   Aug   Soc.   Aug.   Soc.   Aug.   Jun   Jul.   Aug.   Soc.   Aug.   Jul.   Aug.   Jun   Jul.   Aug.   Soc.   Aug.   Jun   Jul.   Aug.   Jul.   Au	(CM)	/s/100km²	Loner to the control of the control
Table A-2-16) Natural Flow at No.2222 Gauging Station  Year Oct Nov Dec Jan Peb Mar Apr May Jun Jul Aug Sep July 1942   1		otal	00000000000000000000000000000000000000
Table A-2-16) Natural Flow at No.2223 Gauging Station  (C. A. = 6,854.0 km²)  1944. 1945. 1945. 1945. 1945. 1945. 1945. 1945. 1946. 1947. 1946. 1949.		· •	
Table A-2-1(a) Natural Flow at No.2223 Gauging Station  1941		<b>∷</b> 5	
Table A-2-1(a) Natural Flow at No.2223  Year Oct Nov Dec Jan Feb Mar Apr May (C. A = 6 1942   1941   11.6   1941	rion.	Jul	00000000000000000000000000000000000000
Table A-2-1(a) Natural Flow at No.2223  Year Oct Nov Dec Jan Feb Mar Apr May (C. A = 6 1942   1941   11.6   1941	nuging Stat	Jun	0.0.14rr.0.00.04rd.04cd.04cd.0000000000000000000000000000
Table A-2-1(a) Natural Flow at 1941		ಡ	8814804898080888808888888888888888888888
Year         Nov         Dec         Jan         Feb         Mar           1942         Nov         Dec         Jan         Feb         Mar           1942         Nov         Dec         Jan         Feb         Mar           1942         S5.0         Dec         Jan         Feb         Mar           1944         S6.2         S6.0         S6.0 <td>i Fiow at</td> <td><math>\alpha</math></td> <td>40000004040000400010110000000000000000</td>	i Fiow at	$\alpha$	40000004040000400010110000000000000000
Year         Nov         Dec         Jan           1941         71.6         67.0         Jan           1942         71.6         65.9         65.9           1943         65.9         65.9         65.9           1944         65.9         65.9         65.9           1944         65.9         65.0         65.0           1945         65.9         65.0         65.0           1946         65.9         65.0         65.0           1946         65.9         65.0         65.0           1947         100.0         65.2         77.0           1950         77.7         66.0         65.2           1951         77.7         67.0         67.4           1952         75.0         67.0         67.4           1953         65.2         77.0         67.4           1955         75.0         67.0         67.4           1955         75.0         67.0         67.0           1955         75.0         77.0         67.4           1955         75.0         77.0         67.4           1955         77.4         77.0         77.0	Natu	Mar	885.8884985.408899911149999985.88659488891.8
Year         Nov         Dec         Jan           1941         71.6         67.0         Jan           1942         71.6         65.9         65.9           1943         65.9         65.9         65.9           1944         65.9         65.9         65.9           1944         65.9         65.0         65.0           1945         65.9         65.0         65.0           1946         65.9         65.0         65.0           1946         65.9         65.0         65.0           1947         100.0         65.2         77.0           1950         77.7         66.0         65.2           1951         77.7         67.0         67.4           1952         75.0         67.0         67.4           1953         65.2         77.0         67.4           1955         75.0         67.0         67.4           1955         75.0         67.0         67.0           1955         75.0         77.0         67.4           1955         75.0         77.0         67.4           1955         77.4         77.0         77.0	able A-2-1(	Feb	80000040040000000000000000000000000000
Year Oct Nov Dec 1942 1942 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1944 1950 1950 1950 1950 1950 1950 1950 1950	<u>r</u>	Jan	40000-00-00000444000004-0000-111040-000
Year Oct Nov 19941 19942 1199443		a)	299860238027883716880271600077387000811738
Year 1 1994 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Nov	- 66 56 45 8 1 6 0 8 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		Ü	
A 17 17 A		e e	

Table A-2-1(b) Natural Flow at No.2323 Gauging Station

														(Unit: M(	MCM)
	Year	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	uni	Jul	Aug	Sep	Total (1	$(m^3/s/100  \rm km^2)$
١.,	- 6	4	ے ۔				42			۷.				9.7711	•
	G	Ś	-				~:				~			1015.8	
	1980	57.2	100.0	55.5	45.7	4 T	63.8	253.0	302.0	93. 63.	47.0	32.8	24. 2	1115.9	0.52
•	8	64	37.				О.			ο.	<del>-</del>			908,8	
	8	٠.:	ro.				တ			ŝ	o i			981.4	
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F	8	7	ω.				-			2	-	_		569.	
;	8	€,	Ö				-			4	4			839.	
	ලා -	, i	2	_			é			<del></del> ;	Ö			1229.2	
l															
	Ave	55.0	54.4	48.9	45.2	42.2	59.9	169.5	338.7	201.9	90.7	54.1	46.2	1206.6	0.56

Note : (1) 1940/10---1963/9 : log Y = 0.088 \* X(No.2302) + 0.704

Table A-2-2 Natural Flow at No.23-24 Gauging Station (C. A =  $4.693.6~\text{km}^2$ )

Year	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	นา	la l	Aug	Sep	(Unit: MCM Total (1	MCM ) (m <sup>3</sup> /s/100km <sup>2</sup> )
57		ني	4	5	ယ	.نــا		<u>ن</u>	87.9		<u> </u>	24.6	ا ا	
თ თ [~ [~	29. 6 23. 4	27.0	23. 24.9	23.7	28.5	25.00 0.00 0.00 0.00	121.0	318.0 193.0	108.0	23. 4 57. 9	13.4	16.6 15.9	60 63 63 64	0.53
8		co'	∞.	-	<b></b>			<u>ن</u>	31.7		<u> </u>	15.4		
တ္လ		င်ဖ	٠. م	∞	<u></u> «	-di 64		ഗ്ര	211.0		ထုံ တ	1.7. 2.9.4	- # S-	
ည်		. ∞	· -			; ~;		; ;	4 80			* <del></del>	:	
800		c	ď	44		Ç.		α		•		6		
ခြေ	26.7	24.2	24.5	23.0	25.4	40.	161.0	150.0	130.0	23.5	10.4	18.0	656.4	0.44
90000 00000 000000		<del>-i</del>	9	9	·	4	22.	ς.	က	ເກ່		re,	90.	
Ave	28.4	29.2	25.7	23.6	24.0	34.4	128.7	210.1	94.7	25.0	12.9	16.8	653.6	0.44

					Table A-2-3	Natural	Flow at No	C. A = 3, 5	ural Flow at No.2329 Gauging Station (C.A = 3, 538.8 km²)	Ę			(Unit: MCM)	(MC
Year	0ct	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Total (n	Total (m3/s/100 km2)
97														
20 CD	· ·					e.			-					
1980		٠,									•			
900		-		S.		ζ,	119.0	~		ල න	10.6			
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198	0	¥		o,	Ġ	ω,	124.0	ص		30.0	9 22 0	-C#	0	
198	έ,	S.		60	တ	Ġ	139.0	ω.		14.3	7.0	Ġ	ત્યું	
တ္တ	₹.	ω,		ω,	α,	4	142.0	<u>.</u>		25.2	5.2		588, 2	
138		ij		ω,	ζ.	e.	130.0	<u>.</u>		20.1	15.0	۳.	ó	
88 ~1	0	ς?		<u>.</u>	o;	o'	130.3	0		102.0	29.8	∞,	ς,	
8	36.9	27.9	23.1	19.0	15.2	42.2	132.5	42.6	11.2	ري دي د	5.⊥	9.3	370, 7	0.33
ආ ආ	600	2		₹.		1	151.5			28. 5	11.7		635, 1	
Ave	24.6	24.8	20.6	17.1	16.9	28.8	122.3	180.0	71.2	27.0	13.8	16.2	578.1	0.52

÷ .					Table A-2-4	Natural	Flow at	No.2325 Gauging ( C.A = 1,762	ıging Station 762 km²)	S.			(unit : M	( WCW
Year	Oct	Nov	Dec	u u u	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep		(m³/s/100km²
	1		•	,										
co.	14.00	13.70	11.00	9.13	8.40	20.90	26.70		2.5	ŝ		ŝ	31.2	0.33
Ç,	~	6.83	-	٥.		က်	S		∞ ∵	ις»		C	55.3	
Ç)	¢.	8. 90 00	ći.	Φ.			က		6/3			c.s	(L)	
က က	ري س	11.70	03	S		~i	6		0.2	∾.		62	71.0	
CJ.	₹.0	10.40	3	'n		Ġ	တ္ပဲ	23		٠,		S	100 201	
Ωυ Γ∽	0.3	9.71	φ.	0		⟨;	∞;		7.4	ം		643	68.8	
∞ σ>	5.8	20.10	တ	₩,		<u>~</u> :	9	- 1	3.2			w	62.0	
8	ე ა	9.61		0		်	0		4.5	٥.		دۍ	87.7	
8	ĊΩ	12.20	r.	₹*		G	<del>د</del> .		ο. 9			Q.	99.9	
9	****	6.43	r.	0			-4		3.5	rO.		ω,	96.3	-
ტ დ	∞	11.90	60			-4	ţ		გ. გ	-4		∞	60.3	
တ္တ	S	13.30		ധ		α;	မွ်		5,4	~		C3	88.5	
98		8.94	0	ഹ			_;	70.50	55.40	13.10	1.67	7.84	245.46	0.44
98	$\circ$	12.20	 	ĸ,		φ.	∾;		0.1	6.0			93.4	
8	$\infty$	10.96	∾	က		₽,	₹		တ			€3.	48.9	_
თ ი დ ი თ ი	0	24.90	4.0	0		6	_;			C.3		6.3	69.7	
9														-
Ave	11.27	11.99	11.14	9. 20	8.49	13,66	48.48	68.83	22,05	8.28	4.94	7, 23	225.54	0.41

Table A-2-5 Observed Monthly Temperatures at Oltu Station

											(unit	; 'C)	
Year	Jan	Fev	lar	Apr	Nay	Jun	Jul	Aug	Sep	0ct	Nov	Dec	λve
1968	-4.9	-3. 5	2.0	11.6	15.3	16.6	22. 5	20.7	18.3	12.5	6. 8	-1.3	9. 7
1969	-4.4	-4.3	4. 1	7.7	15. 9	20.4	21. 2	23.4	16.5	9.9	5.0	1, 4	9.7
1970	0.4	2. 4			14.6		22.3	20.7	16.9	10.3	7.4	-3. 5	10.8
1971	-2. 1	-0.9	5. 0		14.9	16.9	24.5	19.9	20.5	9.7	4. 5	-3. 2	9, 9
1972	-9. 4	-5. 0	2. 1		12.5	17.4	22.8	23. 0	17.6	13.7	3.3	-3.4	8.8
1973	-6.4	-0. l	2.5	8.9	14, 4	16.1	21.8	22, 6	18.4	12. 2	0.6	-1.8	9. 1
1974	-7.8	-3.5	3. 7		15. 7	20.7	22. 2	20.9	15.8	15.5	5.4	-0.2	9.6
	-2.5	-2.7	1.9		14.1	20.0	23. 7	23. 4	17.2	10.1	4.0	-5.0	9.7
	-5. 6	-9.5	0. 9		13. 7	18.0	20.9	23. 3	16.8	11.6	6. 1	0.5	8.8
1977	-5. 7	1. 2	4. 1	10.0	14.1	16.5	21.0	22.0	18. 1	7.8	6. 2	-2.5	9.4
1978	-4.9	$0.\overline{4}$	5. 9	8.4		16.9	24.0	21.5	19.5	12.5	1.8	0.7	10.0
1979	0.3	2. 9		9.7	14. 4	17. 1		24. 5	19.5	11.0	6.4	0.3	11.0
1980	-0.7	1.9	3.9		15.2			21.3	16.9	10.3	6.6	2. 5	10.9
1981	-0.2	2. 2	5.3		11.5	18. 1	23. 4	22. 2	19.1	12.9	3. 9	3.5	10.8
1982	-0.3		2.9		14.6	18.6	20.7	21.3	17. 5	10.4	2.5	-0.5	9.8
1983	-3. 2	0. 1	4.5	10.6		17.6	22.8	21.9	16. 9	10.4	6. 1	1.4	10.3
1984	0.9	0.4		9.1		18.5	22.4	19.4	19.0	10.8	5.0	-0.8	10.2
1985	-0.5			11.0		19.7	21.0		17.9	9.5	6.5	-1.7	10.3
1986		-1, 7	3.3		11.3	17.0	23.8	24. 4	19. 1	11.0	3. 2	-2.3	9.8
1987	-0.7	0.8	0.5		16.0	18.3	22.7	20.9	16.2	9.6	3, 1	-1.3	9.5
1988	-6. 4	_		10.0		17. 1		20. 5	16.6	10.5	2. 1	-0.6	8.9
1989	-8.2				15. 1	19. 4	23. 3	24.5	18.1	10.7	5. 2	-4.0	9.9
1990	3. 13	2, 0	3.0	_3.	777								
1000	-												

Ave -3.4 -1.3 3.6 9.9 14.3 18.2 22.4 22.1 17.8 11.0 4.6 9.9

 $\textbf{Deficit data } 1973/6--12, \ 1974/3--9, \ 11,12, \ 1975/1--10, \ 1977/10, \ 1979/1--1980/12, \\$ 

; X>0 Y(01tu) = 1.096 \* X(Tortum) + 0.83; <math>X<0 Y(01tu) = 0.912 \* X(Tortum) + 0.83

			Table A-2-7		Sediment Yield (No.2325; C.A.	31	from Calculation for = 1,762 km <sup>2</sup> )	. 16 years				:		
Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	u n n	Jul	Aug	unit: t Sep	ton ) Total	ton/km²
0	5		"	3	l e	-	0	ľ	1	000	"	-	0 0	9
107.5	2.010	7.75	4 C	1 821	5.24	7 205	23 107	66. A 18	26.052	000	25.0 24 27.0	753	137 553	7 to 0
, 52.5 - E	3 = 7			)	, c.,	62	5 2 2 3 2 4	0.1	, r-	> ~~ (	10	529	52	84.5
C.		6	00	00	00	E	52.97	6.2	5.13	3,826	-	<u> </u>	78,92	
50	30	8	S	4	2	73	32	88.7	8.83	۔۔،	92	လ	40,17	20.02
9	9	52	26	S	28	-	9,56	54.2	6, 29	တ	S	വ	39, 13	₹. 9.
9	70	~ 3	<u>c.</u>	6	ئ	27	3, 10	2,4	8,01	∞		8	40,84	9.
8	∞4	3.38	7.	77	90	60	5 34	5.0	1.53	44	82	ري دي	96, 29	11.4
9	7	54	79	20	20	48	5 36	0	1.60	ဖ	$\leftarrow$	A.	53,80	44.0
8	8	S	56	$\sim$	.08	04	7.91	2	2.04	C~3	Ø	7	43,74	24.8
8	t	77	<del>√</del> √	8	82	2	3	2.5	330	6,957	2, 103	80	9, 12	02.4
9	တ	ς. Α,	5	~	88	2	0.76	55.9	1,74		44	9	18,92	81.0
98	7.0	8	59	0.4	38	65	5, 35	8	3, 70	2		62	60, 13	04.3
9	85	83	88	56	9	11	8 24	94.5	5 68	7	, 16	3	15,46	76.3
8	45	38	60	7.9	57	62	3.05	79.2	88	35,614	3	ţ	46,23	دی
හ	80	.54	3	(L)	0.9	<del>د.ر</del> دی	4,89	 	3	2	15	563	77, 16	00.5
Ave	4 932	5 988	4 871	3 160	2 987	7.300	115 497	250.038	26, 510	5, 134	2, 623	2, 439	431.478	244.88
2	•	•		? •	,		*	•	•	4	>	•	•	

Table A-2-8(a) Sediment Yield from Calculation for 50 years (No.2325; C.A = 1,762 km<sup>2</sup>)

(MCM)	40044644600000000000000000000000000000	∹ I
ton/km}	40-462222483442222442222442424222244242424242	: 1
ton ) Total	1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1822, 939 1, 1823, 939 1, 1823, 939 1, 1823, 939 1, 1823, 939 1, 1833, 939 1, 18	٥٠, ٥٥ ١, ٥٥
(unit : 1 Sep		2
Aug	22.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	~ [
Jul	224, 224, 224, 224, 224, 224, 224, 224,	7
Jun	20	6, 95
May	28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5,41
Apr	1.000000000000000000000000000000000000	3, 10
Mar	144.6.4.0.0.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0	07.
Feb		, 52
Jan		82
Dec	00044440000000000000000000000000000000	ςς ςς (
Nov	8,85,72,74,02,0,4,7,2,0,7,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,0,1,4,2,4,7,2,2,4,0,1,1,1,0,1	
Oct	9 - 8 4 6 4 9 4 - 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 28
Year		ლ 

Table A-2-8(b) Sediment Yield from Calculation for 50 years

Year	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	(unit : Sep	ton ) Total	(ton/km	(MCM)
$\begin{array}{c} -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 $	21 22, 4, 25, 25, 27, 27, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	22, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	10,75,000,000,000,000,000,000,000,000,000	2, 178 2, 178 2, 116 2, 12, 2, 4, 2, 116 3, 7, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	8,629 9,146 11,270 4,138 12,270 4,092 7,729 13,136 1115 13,136	266, 326 52, 977 29, 328 393, 102 85, 345 7, 918 65, 355 68, 246 68, 246 68, 246 68, 246 68, 246 69, 355	507, 466 588, 747 588, 747 588, 747 557, 699 110, 866 578, 234 558, 814 894, 502 379, 230 15, 779	57, 488 15, 136 28, 812 26, 294 8, 013 21, 500 12, 046 14, 306 15, 687 56, 889 233	3, 826 1, 188 2, 826 3, 188 1, 6, 933 1, 6, 954 1, 224 1, 469 2, 957 2, 957 2, 957 2, 957 2, 957 2, 957	1,100 16,973 923 2,115 2,115 2,103 2,103 1,163 10,937	6.6.1 6.1.1 6.1.2 6.1.9 6.	677, 528 678, 928 139, 174 139, 174 139, 174 253, 847 43, 742 43, 742 360, 120 1,015, 463 177, 164	2884 2885.5 420.1 1111.4 144.0 146.0 100.5 100.5 100.5 100.6	222.0 272.0 272.0 272.0 272.0 272.0 272.0 272.0 272.0 272.0 272.0 272.0 272.0 273.0 273.0 273.0 273.0 273.0 273.0 273.0 273.0
Ave (1) Riv (2) Sus	ve 6,246 RivNote : Suspended S	6,185 :(1) River S(2) Susper	185 4,854 3 River Discharge Suspended Sedim	3,746  see 1940/ liments D  1940/ 1913/	3.304 10 10 10	1973/9:0 1989/9:0 1989/9:0 1973/9:1	83,82 =0.3844 o.2325 ogQs=1.	262,401 (No.2329)+ 8*LogX(No.	84,753 1.02 2325)+1.69 Calculation	18.118 n for 16	6.274 Years	3, 8	490, 998	278, 7	302. 9

Table A-2-9(a) Flood Peak Discharges

(unit; m³/sec)

	No.2323	- Maria - Maria Maria - Maria	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN CO	No. 23-24	a late for the Construction of the Cons
. Date	. Dis	charge	Date	Dis	charge
erar <u>franch</u>	Peak	Haximam		Peak	<b>Haximam</b>
18 Apr 1965	154		1965	( 123 )	
2 Hay 1966	191		1966	( 152 )	
13 May 1967	249		1967	( 199 )	
18 Apr 1968	472		1968	( 377 )	
30 Apr 1969	378		1969	( 302 )	
15 Apr 1970	146		1970	( 117 )	<u> </u>
17 Hay 1971	165		1971	( 132 )	
1 Hay 1972	174		1972	( 139 )	Ì
12 Hay 1973	205		1973	( 164 )	
13 Apr 1974	231		1974	( 184 )	}
15 Hay 1975	99.8		1975	( 79.6)	
21 Hay 1976	227		1976	( 181 )	
14 Hay 1977	220		7 Hay 1977	210	
18 Hay 1978	295		18 Hay 1978	270	
14 Jun 1979	230		14 Jun 1979	210	
11 Apr 1980	263		11 Apr 1980	290	
5 Jun 1981	196		5 Jun 1981	110	
19 May 1982	224	191	2 May 1982	170	
18 Hay 1983	97.8	89.7	18 Hay 1983	68.0	
20 May 1984	504	476	12 Hay 1984	112	
23 Apr 1985	250	189	23 Apr 1985	150	135
16 Apr 1986	233	179	16 Apr 1986	155	125
21 Hay 1987	377	356	10 Hay 1987	270	260
19 May 1988	<b>*</b> 320	286	1988	( 255 )	
15 Apr 1989	<b>*</b> 186	150	1989	( 148 )	
28 Apr 1990	* 374	341	1990	( 299 )	
15 Apr 1989	<b>*</b> 186	150	1989	( 148 )	

Note; 1) Figurs with \* are calculated by correlation analysis between daily maximum discharge and peak discharge.

Qp = 0.984 \* Qmax + 38.1

2) Figurs is ( ) are calculated by relation between peak discharge rate and catchment area.

Qp(No. 23-24) = 0.798 \* Qp(No. 2323)

Table A-2-9(b) Flood Peak Discharges

(unit; m³/sec)

	No. 2329			No. 232	5	
. Date	. Dis	charge	Date		Disc	charge
	Peak	Maximam			Peak	Maximam
1965	( 99.2)					
1966	( 123 )					
1967	( 160 )			•		
1968	( 304 )					
1969	( 243 )				ļ	
1970	( 94.0)	44			į	
1971	( 106 )					
1972	( 112 )	,				
1973	( 132 )					
1974	( 149 )		22 Aug 1974		94.5	36.5
1975	( 64.3 )		19 Jun 1975		130	45.8
1976	(146 )		29 Apr 1976		146	110
1977	( 142 )		1 Hay 1977		157	114
1978	( 190 )	*	6 Hay 1978		140	105
1979	( 148 )	· ·	4 Jul 1979		134	23.1
1980	( 169 )		11 Apr 1980		148	123
1981	( 126 )		10 Apr 1981		27.7	27.1
27 Apr 1982	* 129	104	23 Apr 1982		31.2	28.1
16 May 1983	70.6	62.0	12 Jun 1983		37. 3	19.1
20 Hay 1984	309	25 <del>9</del>	20 May 1984		162	143
23 Apr 1985	174	136	15 Apr 1985		69.1	60.2
16 Apr 1986	149	113	15 Apr 1986		45.1	34.0
1 Hay 1987	250	223	7. Hay 1987		196	172
21 Hay 1988	<b>*</b> 268	227	19 Hay 1988	*	68.8	53.7
15 Apr 1989	* 104	82.5	13 Apr 1989	*	42.0	30.8
28 Apr 1990	. * 268	227				

Note; 1) Figurs with \* are calculated by correlation analysis between daily maximum discharge and peak discharge.

(No. 2329) Qp = 1.131 \* Qmax + 11.13

(No. 2325) Qp = 1.168 \* Qmax + 6.04

2) Figurs is ( ) are calculated by relation between peak discharge rate and catchment area.

Qp(No.2329) = 0.644 \* Qp(No.2323)

A-3	Geology and Construction Materials

#### APPENDIX-3 GEOLOGY

#### Contents

		<u>Page</u>
A-3-1	Geologic Log of Drill Hole	AP-3-1
A-3-2	Photograph of Drilled Core	AP-3-122
A-3-3	Micrograph and Petrographic Description of Rock	AP-3-141
A-3-4	Geophysical Prospecting Data	AP-3-144

Page

OI.	.UR	PROJ.	ECT			·,			·	HOLE	No.	·	SK	-214			<u> [ S</u>	HEE	<u> 1 of</u>	5)
LOCATIO	N .	DAM	SITE	(RIVER	BED)	·				EPTH OF HOLE 99.50			•	COAMEZCEI	) _			21_		
ELEVATI	-	102								RECTION OF HOLE 90"				COMPLETEI	_					
COORDIN	ATE _	200								RE RECOVERY		<u>%</u>	- !	DRILLED I					<u> </u>	
		<u>Y:5</u>	15742	,32	~				DF	AILLING MACHINE	1			LOGGED BY	Y 	1.1				
Đ.		AME	G	E CE	-	d.	S	)	OBSE	RVATION OF CORE	22.	Γ	EST	NG	TYPE	Ş	ATION	ATER		2
ELEVATION	DEPTH	ROCK NAME	ار 0	CORE RECOVERY	COLOR	WEATHER-	HARD- NES	PACK	ROCK	DESCRIPTION	LUGEON	Pmax	d d	DEPTH RESULT	BIT T	CASING	CEMENTATION	DRILL WATER Return	G.W.L (Opt.H)	DEPTH
ш		Oć .		0 → 100°	1	×	=	SPS	Ě		-	L	/cm				႘	<u>ح</u>		Om
1025.08	Ont		° 0.			-		-										^		
			0°00							Open Excavation: silty, fine sand with plant roots										-1
			င်္ဂိ ့ <sub>(</sub> ) လ							·										
	2 -		o°,00°,																	- 2:
			00°00°																(Firml)	
	3		6 86 200°C							Cobbles and graveis:										3
	1		30.00							Gravel : 80%										
ŀ	4		* O.					1		Cobble : 20%										4
	5 -		20°50							Max.cobble stze:13cm										5
	1		0,000 0,000 0,000							at the second se										
	6 7		ိ် က							Cobbles and gravels are originated from granite, dacite, granodlorite, basalt, diabase, and										6
	11		င်္ဂို့ ၈(၄ ဇန္န							Timestone. Gravels are rounded and										
	7	. :	0.00					1		subrounded; pinkish brown, grey, greenish grey. Grey is predominant among the other colours.									ĺ	7
	8	. ;	000°							the other colours.										8
	, 14172		0000																	
	9	sit	0 0																	9
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	, the	A.	o. 0.							Silty,sandy gravel									,	E '
	8.4	.	0,00							with coppies:									!	-2
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		,	0.00							Cobble : 15%										
	4 1	i	3,00 0,00							Gravet : 66%						•			;	1
	5	į.	00°00							Max, cobbie size : 14cm										- -5
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1005.08	_20_ <del>.</del> ]				ļ	1	L	<u></u>		> driller's note ∢	<u> </u>	<u></u>	<u> </u>					L		<u> </u>
			}		1			therd	5 (se	l. 2 (substick), 3 (piece), 4 (fragment), 5 (grain) off)				~~				DEVI	D ELOPMENT	CA LTE
					-core loi RQD	.e 1	1786RÎ	u~ t} (t	depena	FOZIN				ti	.E. V   11	NO F	>17E !!	. v∈¥i	LEVI MKNI	VV., LID.

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01.0	JR .	PROJ	ECT								E No.			214				HEET	2 of	5)
LOCATION	`	DAM	SITE	RIVER	BED)				DE	EPTH OF HOLE 99.50		0	_ (	COMMENCE	)	90	-08-	21		
ELEVATIO	)N	102	5.08			<u></u>	n	<u>.</u>	DI	RECTION OF HOLE 90°			_ (	COMPLETEI	) _	90	-10-	24		
COORDINA	\TE	X:4	511911	3,62					CO	ORE RECOVERY		X	. 1	ORILLED I	37	Ka.	va-C	elil	ζ	
			15742						DR	RILLING MACHINE			_ }	OCCED BY	í _	1.1	ard	al		
T = T		m		<u> </u>				C	BSE	RVATION OF CORE		Ϋ́	EST	NG	m	4.5	HOL	131 - J		
ELEVATION	DEPTH	ROCK NAME	L 0 G	CORE	_1	WEATHER	HARD. NESS	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEDX	Увя	ЬС	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	5	G.W.L (Opt.H)	H1 630
	20m		=0. O.	0 → 100,	% T	<del> </del>					-	Kg	/cni					%		20m
985.08	1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	Alluvial Deposit	కాడి లో చివిదిని చివిదిని ప్రస్తుని స్థాని							Silt: 10% Silt: 10% Fine gravel: 15-20% Sand: 70% Less amount of coarse gravel.									The state of the s	1 2 3 4 5 6 7 8 9 0
		-			00101	1 19 1		I therd	0~5 fe	k). 2 (subatick), 3 (piece), 4 (frequent), 6 (groin) of il (posed)									<del>D</del> ELOPMENT	CO., LTD.
					6010 [	u P S		10 " 110	~ 9U Off	fonati)				-						

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0	LUR	PROJ	ECT					HOLE No.						-214			5 1			
LOCATIO		DAM	SITE	RIVER	BED)					PTH OF HOLE 99.50				COMMENCE						
ELEVAT			5.08							RECTION OF HOLE 90°			`	COMPLETE	-			24		
COORDI	NATE									RE RECOVERY				DRILLED I					<u>(</u>	
	-	Y:5	15742	.32						ILLING MACHINE				LOGGED B	Y 	1.				
<b>8</b>		345	c <sub>5</sub>	>- 5×		٠.(	1		1	RVATION OF CORE		r	EST	NG	TYPE	ٿ ت	ATION	RATER REFER	-	<b>#</b>
ELEVATION	DEPTH	ROCK NAME	L 0 (	CORE	CGLOR	WEATHER-	HARD- NES	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	Priex	РС	DEPTH RESULT	E FB	CASING	CEMENTATION		G.W.L (Dpt.11)	рертн
70F 00	40m			0 -> 100	%		ļ				_	Kgi	/cm		-			%		40m
985.08		4	0,000							Silty,sandy gravel										
	1 7	Deposi	0 g a a a																	
·	Liste		0.00							Stit-sand : 20-25% Gravel : 80%										- 2
	2	Alluvial	v 6 3							·										
	3 -	110	0,00									1								- 3
Ì	l the	4	0,000																	
	4		+																	-4
	17.17		+					1												
	ნ-		+		g	3				Fractured zone, oxidized (brown) joint surfaces, alteration in minerals				}					'	5
	6 -		+		brown					is not distinct.		┞					1			-6
							3	3			2									
	7 -				Pinkish	1		,		÷	Lu=32									7
			+		a			1	}		17									
	8 -		+			_		-				1								8
	9		+			3		2 3			Lu=7									9
			+								ដ									<u>.</u> [
	50		+		}}}			2												50
	,	,	;					-			60								}	
1	ţ	Porphyr									1 2 2									1
		Por					1													E z
	8 -	1te	,					1												
	3 -	Granite	+					-		Several feather joints,	Luki	0								3
	<u>.</u>	_	+		311 8			1		fresh joint surfaces, occasional calcite and clay infillings.	=1									
ļ. 	4 -		+		1							1								<b>-</b> 4
			+		Pinkish	5	2				9,6									- 5
	5		+		P. 12.						Luze									
	6		+					'			_	1								- 6
	_							١,			_		}							
1	7		-					,			Lu=8									E 7
	-		+			.		2												
	8 -	4	+																	8
	9 -	1	+								Lu=17									-9
			+					-	4		1.1									عداده
905,08	60	1					1	3	<u></u>	e driller's note 4	L_	J	1			230			<u> </u>	60
				Ņ.	N	lace	1,,,		d1~6(	k), 2 (subatisk), 3 (płoce), d (fragment), 6 (grain) 1011)						********		R DE	ID Velopment	CO., LTD.
				ţ			1556	65° 1216	10000	ଉଦ୍ଭହ୍ୟ ପ										, 2. 3.

01	Lur	PROJI	ECT							HOL	E No	<u>.</u>	SX	-214			15	HEE	T 4 of	5)				
LOCATIO				RIVER	BED)								-	COMMEXCE	) _	90-08-21								
ELEVAT	•	102								RECTION OF HOLE 90'			-	COMPLETE	0 _	90-10-24								
COORDIN		X:4	51191	8.62		·			CC	ORE RECOVERY		K	_	DRILLED	BY _	Ka	ya-(	eli	k					
				.32					DF	RILLING MACHINE			-	LOGGED B	Υ_	L	Vard	al						
2		ų;	-	چ ا	T	·····			OBSE	RVATION OF CORE	T	Ţ	EST	ING	m,	(4	TION	E S						
ELEVATION	DEPTH	ROCK NAME	5	CORE	COLOR	WEATHER-	SS SS	95 8	ZX DIA	DESCRIPTION	LUGEON	Равх	o a	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	AST∃	G.₩.L (Opt.H)	DEPTH				
EE	ā	ROC		¥ ¥	8	WEA	HAR	SPAC	R. Eval		3	٦		RESULI	ā	O	CEN	PR R	(upt.H)	(.)				
	60m			0 × 100	%	1						Kgi	/cul					%		60nt				
965.08	. 1		-}-				2	3		59.50-61.15: Vertical Joint with oxidized surface							}		!					
	1		1		∭ .					oxidized surface	Luci									-  -				
	111111		- -							•														
	2 -	. 11.	+																	-2				
	; sterrit	٠.	+				1	1	'		Lu=4									3				
	3 -						1	١,		Several feather joints	13													
	4	·				1	2				-									<u> </u>				
	111		•				2	2		·														
	5 %		+					Ì			ן נייי:									5				
	erale		+				-	-	1			1		<u> </u>						į.				
	8		+					3												- 6 -				
	7		+				2			Fratunal rose cyldiand	Luk	Į								7				
		7.7	+				1	5		Fractured zone, oxidized Joint surfaces, 2000 clay infilling	ı									-				
	8-	yhd	:		grey	2	3	1		·	-									8				
	1	П Q	<del> </del>   •		111			3	1											Ė				
	9	itte	+		Pinkish		-		1		Ľ,									- 9				
	1	Granite Forphyry	+		ā							,								70				
	70 -		+					2				101								["				
	1 -		+						1		L L									<u> </u>				
	=		   +						1		13			\$						Ę.				
	2 -									Occasional feather joints	э									<u>E</u> 2				
		·	•				2	2			6									E				
	3-		1					1			Lu=1									F 3				
			+					1		·										Ē.,				
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	5 -		+					3			u=2.									<u> </u>				
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	8						_	_			-									F 6				
	4		'					3	1		63									<u> </u> -				
12.	7	<u>-</u>	+			$\frac{1}{2}$	2				1.8±									7				
	8 -	рь		AIII	ព្រះរ	<b>,</b>	\$													- B				
		ŰÞ	+		P.E	,		2		Fractured zone	2									<u> </u>				
	9 -	Db	1			3	3	3			1.1=1.1									9				
			1		er.a						] = 1									1				
L 945.08l	80	GP	L-L	raill	И Ш	_ <u>  2</u> 	1 <u>:1</u>	<u>11~:</u> ∳	ĕl	p driller's note d		J	ــــــــــــــــــــــــــــــــــــــ	1	T.			1 • ),	T	F 80				
			-		Louis	koas	1ttres		d) - 6 (e	d. 2 (m.bstick). 3 (pisce). 4 (fragment). 6 (groin) oft) gased					LECT				(F) /ELOPMENT	CO., LTI				

UI .	1/12	PROJ	ECT		HOLE No. SK-214 (SHEET									f 5 of	5)									
LOCATIO	W	DAN	SITE	(RIVER						EPTH OF HOLE 99.50		n	•	COMMEXCE	ED 90-08-21									
ELEVATI				.1						RECTION OF HOLE 90°				COMPLETE	)	90	-10-	24						
	-			8.62						ORE RECOVERY				RILLED BY <u>Kaya-Celik</u>										
COOKOTA			15742						DF	RILLING MACHINE					OGGED BY 1.Vardal									
									OBSE	RVATION OF CORE		T	EST	ING			<u>e</u>	œ						
ELEVATION	DEPTH	RDCK NAME	១០១	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	NOEDN	Ртах	<u> </u>	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Opt.H)	DEPTH				
	80m			0 → 100%								Kgi	/cm					%		80m				
945.08		Gp	+ • + • +			2	1	1		Hard , sound	[n=1]													
	S S	Dр	+			2-3	2	2		Oxidized Joint surface	Luc 1								į	3				
	مرابيمارييان	Porphyry	+ + +				1	2												4				
	ខ្មាញ	Granite Porp	+ + +				2	3			Lu<1									6 6				
	7	Gra	· + +			2	1	1			Lu=1.3									7				
	8 8 submitte	Diabase	上		· So			3			Lum2									8				
	80 and 100 and		• • •		reenish grey		3	2		Occasional shattered zones.	F	10							!	90				
	territoria.	Porphyry	• • •		ő			3			Lu<1									-				
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Granite P	· + +				1	1			Lu<1									الا 33 عندالرسيالي معالم عندالرسيالي				
	A state of the sta		+ + + + + + + + + + + + + + + + + + + +				3	3		Fractured zone	N									د درا دریا دریا دریاده				
	6 (1975)	Db	土			1					Lu=1.									5 5 1 1 1 1 1				
	. a	Porphyry	+					1			Lu=1.6									7				
	8	Granite	+ + + +		Sec.					Feather Joints	Lu=1,1									8				
925.58		·				ļ	_		ļ	End of the Borehole	_   Ã	<u> </u>	<u> </u>	 		ļ								
925.08	100		L		<u> </u>	1_	1	<u> </u>	<u> </u>	rormer's note 4	l	<u> </u>		<u> </u>	<u></u>	<u> </u>		<u></u>		100				
					1	١	Ī	Gard	11 -15 fg	d. 2 (substick), 3 (pleas), 4 (fragment), 6 (grain) of ti								9 6		00 1**				
				<u>L</u>	-core la: ROD	û3 Î	lires	h)~6(	decom	Desag				£	ELECTRIC POWER DEVELOPMENT CO., LTD.									

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OLU	R	PROJ	ECT						i	HOLI	E No	<u></u>	Vi	A-218			( )	HEE	T 1 01	f_3 }						
		DAY	SITE	RIVE	R BED	)		DEPTH OF HOLE 52.65 m																		
ELEVATIO	)N	102	6.10		~~~		1	m DIRECTION OF HOLE 90°						COMPLETE	) _	91-09-02										
COORDINA	TE _	X:4	51180	7.45						DRE RECOVERY				DRILLED (	3Y _	<u>, N</u> , (	Celi	k								
		Y:5	15786	.68					DI	RILLING MACHINE				LOGGED B'	Υ	1.	Vard	al								
Z Z		냁		≿					OBSI	RVATION OF CORE	]	TI	EST	NG	w l		8	# 8	<del></del>							
ELEVATION	0EPTH	ROCK NAME	F 0 G	CORE	COLOR	WEATHER-	HARD- NESS	CRACK	EVALUATION	DESCRIPTION	LUGEON	Ртах	Pc	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	G.W.L. (Dpt.H)	DEPTH						
1026.10	Om		- O	0 <b>→</b> 100 <sub>9</sub>					-		-	Kgf	/crit					%	· · · · · · · · · · · · · · · · · · ·	Om						
	1		0,20							Silt and fine aand, containing roots																
	1 1		0 6 80.																1.40m	. 1						
	Anna		0							1.5-21.0m Mainly <b>0</b> =6-15cm gravels									(Final)							
	3 7		0 6 50							and ¢≃1-5mm coarse sands. Shape of sands is angular to subangular.										-2						
	3 -	*.	0,00 0,00							ongarite no barringuria.										3						
	1		0°00°																							
	4 1		တို့ဖတ် ကောင်																	4						
	11		ວິດເດື																							
	5 1	•	0°00°				İ													- 5						
	6		0 0 0 0 0 0				.		ľ											-						
	"	-	0 0 0											6.20m N≕22						-6						
	7 =		000																	7						
	1		2, 9, 95 0, 60 0, 60											7.60m No50						: -						
	8		လို ၈လို လို ၈လို											100.00		Ì				-8						
	4	4	0,00°																							
	9 1	Deposit	0,000							•				9.20m N=7						9						
	0		0 6 3 0 0 0 0																	-10						
	1	vial	000											10,60m				ļ								
	1	Allu	0											N=21						1						
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	,		o°,200											14-21						-						
	3 1		0000 0000											13.60m				ļ		3						
	1		o							<sup>6</sup> 1				N=25		-				-4						
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	8 -		0.00°																	-8						
	and a		0000							* .				į												
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006.10 2	101		200									ļ		į												
	- <del>14</del>	L	- A . ial	W (	L-,	<u> </u>	•	<b>†</b>		> driller's note 4 2 (substick), 3 (pioce), 4 (frequent), 5 (grein)	Ll					 		Ar		t 20 J						
			K		cofe los	. i ∌ 1		(hard)	-6 (so ecopp	rti									LOPIAENT	CO., LTD.						
					-RQD																					

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0	LUR	PROJ			<u> </u>			·							1-218		~	1.5		3)	
LOCATI	ON .	DAM	SITE	(RI'	VER	BED)					EPTH OF HOLE 52.65				COMMEXCEL	) _	91	-07-	11		
ELEVAT		102	6.10							DI	RECTION OF HOLE 90°		<del>,</del> .	(	COMPLETE	)	91	-09-	02		
COORDI											RE RECOVERY		%	1	ORILLED I	3Y _	M.	<u>Celi</u>	k	<del></del>	
	•	Y:5	15786	.68		<u>:</u>				DI	TILLING MACHINE		· · · · · · · · · · · · · · · · · · ·	l	LOGGED BY	/ <u>.</u> _	1.	Vard	la)		
						Γ	-	-	(	BSE	RVATION OF CORE		78	STI	NG	ш		NO.	YATER		
ELEVATION	DEPTH	ROCK NAME	L 0 G	CORE	RECOVER	COLOR	WEATHER- ING	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	Ртах	မ ပ	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION		G.W.L. (Opt.H)	рертн
	20m		90 N	0 -> 1	00%							<del> </del>	Kg1/	/em					%		50m
1006.10	20m 1					Brown to Brownish grey	3	3 2-3	3 4 5 3		21.0-21.45 Mainly fine sand. containing 10% grave! N=27 Mainly Coarse sand (\$\phi=1-5mm\$) containing fine sand and gravels(\$\phi=1-3cm\$) 24.0-24.46m N=42  Coarse sand and gravels. N= Same to 1.5-21.0m  Slime and Fragments  Mainly sharp edged fragments  4.5-21.0m  Mainly sharp edged fragments  Mainly Fragments only  Mainly Fragments and some pieces, Rock is hard but cracky. Crack surface are brown.  Hard substick core, but crack surface is oxidated and brown.		Kgf	∕enî i	21.00m N=27				%		20 m 1 2 3 4 5 6 7 8 9 30 1 2 3 4 5 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10
	1,141					3	2		2		36,0~37.0m,Cracky C=3~4										
	6					ğ	5	2	3											İ	F 6
	الله الله الله الله		با إ	HIII			3		3												[ ]
	7 7		L			}			\											1	E' I
	3					ļ	<b> </b>		ļ									ļ	}		
	8-										Mainly Vertical and eross joints.										8
	1		L				3	3	4		Crack surface is strongly weatherd, brownish.										E
	9 -		L		椒	1	"	''	"								-				-9
986, 10	_40				犐	}															40
				1/2	1	}	•	•	þ	 [ (stive	> inflor's note 4 1. 2 isubatick). Signaco). 4 f(ragment). 6 igrain)				Į	2007 E 100 2007 E 100	or	)(	20	Ð	
		,		r/1 •	Ľ,	- pore lo - pore lo	1 59 '		l therd	n-Bia					_					ELOPMENT	CO., L10.
						.unin					•										

0	LUR	PROJI	ECT							HOLF				1-218			LS	HEE	' 3 of	3)			
LOCATI	OŅ .	DAY	SITE	(RIVE	R BEO			count	DE	PTH OF HOLE 52.65	m COMMENCED												
ELEVAT										RECTION OF HOLE 90°				COMPLETE									
COORDI	NATE .									RE RECOVERY				DRILLED 6						<del></del>			
	-	<u>Y:5</u>	15786	.68		<u> </u>				ILLING MACHINE  RVATION OF CORE			Esti		i _	I.Vardal							
ELEVATION	DEPTH	ROCK NAME	L 0 G	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	SPACING	EVALUATION S	DESCRIPTION	LUGEON	Paex	[	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Opt.H)	ОЕРТН			
	40m			0 → 100	%							Kgf	/cnf					%		40m			
986.10	1 2 3 4 5 6 7 8 9 5 1 2 3 4 5 6 7 million perspection production perspection p	Granite Porphyry			Grey Grey to dark grey	3 3 4	3 { 4	3 3 4 2 2		Fragments only  5cm core and fragments  Mainly Fragments and some pieces of core.  Crack surfaces are sharp but weathered(brown)  45.0-45.9m Granite  Porphyry  Somewhat cracky, but fracture surfaces are fresh.  48.9-49.0m, sheared zone.  Fresh and hard, stick core.								6		1 2 3 4 5 6 7 8 9 5 0 1 2 3 4 5 6 7 7 8 9 9 1 2 3 4 5 6 7 7 8 9 9 1 2 3 4 7 7 8 9 9 1 2 3 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5			
966_10	8 - 8 -													:		'				8 9 60 60			
		Differ's note 4     I (sticki. 2 (subzlicki. 3 (sioces. 4 tiragmenti. 9 (grahu)													COM PAGE		)(	9 4	<b>)</b>	7			
				// N	— RCD — core to A	28 ·			iseogy iseogy										ELOPMENT	CO., LTD.			
					ec.U																		

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01	.UR	PROJ								HOLI			N1-219	<u> </u>			( 5	HEE.	<u>lof</u>	4)
LOCATIO	)N	DAM	SITE	(RIVER	BED	<u> </u>			DE	PTH OF HOLE 62.00		<u> </u>	COMM	IENCEI	(	91	-11-	01_	····	
ELEVAT	-	102	5.48					<u></u>	DI	RECTION OF HOLE 90°	· · · · · ·		COMP	LETE	) _	91	-12-	30		
		X:4	51199	7.36					CC	ORE RECOVERY		%	DRII	LED I	BY _	М.	Celi	k	······································	
	,-		15737						DR	RILLING MACHINE	·		LOGO	ED B	Y	1.1	Vard	la l		
		W.	T-7	<b></b>	<u> </u>			(	BSE	RVATION OF CORE		TE	STING		[]		ě	Ož U		
ELEVATION	нтчэс	ROCK NAME	ر 0	CORE	COLOR	WEATHER- ING	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	NOSEON		o. RE	PTH SULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	G.W.L (Dpt.H)	DEPTH
1025.48	Om		80.0	0 → 100% 111111111		ļ				0.0-43.0 Alluvium	╀	Kgf/c	int					%		Om
	بارانيورايونا التورايونايون		0000 0000 0000 0000							0.0-1.5 Open excavation Silty sand									1.80m	1
-	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							Silty, sandy gravel: Silt-sand: 15-20% Gravel: 80% Gravels are fine, medium, and coarse in size, sub- rounded and angular in shape and originated				. !					(Litrait)	2
	3 4 Junethania	·	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							snape and Graginates, from granite, diabase, rhyolite and limestone. Fine particles are washed away. 10cm block (granite) is oncountered between 3.0~4.5m.							,			-4
			00000000000000000000000000000000000000																	5
	6 4 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 0 0 0 0 0							Rhyolite block Silty, sandy gravel : Silt-sand : 15% Gravel : 85%										6
·	8		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							Characteristics of gravel are as it is mentioned above. Fine particles are completery washed away.				-						-8
	8 Stantage	Deposit	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										<u>9.</u> N	20m ⊵43	mm					9
	10 (100)	Alluvial	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							Silty, sandy gravel: Silt-sand: 20-25% Gravel: 75-90% Characteristics of gravel are as it is mentioned above. Fine					ф88тт	48			,	-10
	2 1	*	3, 0, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,							particles are washed away.			11 N	<u>, 60m</u> 550						2
	3		300 Co.							13cm dlabase block										-3
	4 15 15 15 15 15 15 15 15 15 15 15 15 15	<u>'</u>	50 50 50 50 50 50 50 50 50 50 50 50 50 5																1.80m 115.00m)	-4 -5
	6		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	6
	7		00000000000000000000000000000000000000																	7
	8		\$ 0000 \$ 0000 \$ 0000 \$ 0000																	8
			0,000										1							
1005.18	20		0 6 6	ЩЩ	<u> </u>		Ļ				<u></u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
·					- core la	25		l (herd	)~B (a)	r driffer's nota 4 ), 2 leubeliak). 3 lpisoosl, 4 liff samentli, 5 igražul of li pozedi				_	LECTR		-		B ELOPMENT	CO., LTO.

0	LUR	PROJ								HULI				-219				((t.l.,		11
LOCATI				(RIVER						PTH OF HOLE 62.00		M	. 1	COMMENCEI	)	91	-11-	01		
ELEVAT	ION	102	5,48				Ü	1	DI	RECTION OF HOLE 90°			. 1	COMPLETE	) _	91	-12-	30		
				7.36						RE RECOVERY		%	. 1	DRILLED 1	3Y _	У.(	Celi	k		
COONDI		40.00		.56					DF	ILLING MACHINE				LOGGED BY	1	1.	Vard	al		
			T			-				RVATION OF CORE	T		EST	NG			중	œ		
ELEVATION	DEPTH	ROCK NAME	5	CORE RECOVERY	ĕ	S ER	ESS.	× (1)	X TOW	DESCRIPTION	LUGEON	Рмах	o	0EP1H	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L	ОЕРТН
ELE	26	Raci	13	REC	COLOR	WEATHER ING	HARD	SPAC	EVA!	DESCRIPTION	133	G F	a.	RESULT	BIT	ថ	CEME	F 전	(Opt.H)	D
	20m			0 <b>→</b> 100 <sub>%</sub>								Kgf	/cm	,				%		20m
1005.48			000							No.										
	, -		20, 00					. ,										]		1
			00° 00°							te de la companya de la companya de la companya de la companya de la companya de la companya de la companya de								İ		
	2 -		0,00			}														-2
	1		0°00°																	
	3 -		0 0 0°																	3
	-		0 4 6							· • • •		1								
	4		G 000				İ			Clayey, silty, sandy gravel: Gravels are				24.10m N=20						4
	1,1		್ಯಾಂಭ							mostly fine in size ; occasionally medium										
	5-		000							gravels are encountered. Certain amount of fine				25.10m N=37						F 5
	-		0,00							particles are washed away. Fine material contains less percentage										
	6,=		2,00°							of clay. Fine material: 65%									'	6
	, Tritte		్యింద							Gravel : 35%										-
	7		0000°											27.10m N=30						7
			000																	<u> </u>
	8 -	. '												)	'					-8
		ž t	င <b>့္မီ</b> ့00				}								,					. 9
	9 7	Deposit	င်္လိ <i>ု</i> ဝင်္လ							Silty,sandy gravel: Gravels are generally fine and medium in size:										
	30		0,000							less amount of coarse gravels are encountered					86mm	. 7				30
	30	uvial	0			1				in place.					8	8				
	1	~1	0° 00°			1			,	Fine material: 25%	1			<u> </u>						-1
		Al	0°00°							Gravel 75%										
	2		0000																	-2
	1111		0000																	بانندم
	3 -		0,00			"				9em rhyolita block	}	'		1						3
•	Justin	!	0,00							between 33.0-33.45m. Silty sandy gravel:										
	1-		0°000							Fine material: 40-45% Gravel : 50-55% Gravels are generally										E4
	1143		C 800				ľ			fine in size ; occasionally 2-3cm										
	5		00000			-				gravels are also encountered.										-5
	Tariet.		0,00		<u> </u>		1							•						
	6		0°00											36.10m N=31		ļ	ļ			- 6 -
	1		\$ 00°																	
	7		00°00°		1															-7 -
·	4		0000											37,70m N=38						E
	8-		200							Silty sandy gravel: Gravels are generally										- 8 E
	9		6°,00°							modium gravels are encountered in place : gravels are originated										<u>}</u> 
	9		C. 00		]					Silly sandy gravel: Gravels are generally fine: less amount of modium gravels are encountered in place; gravels are originated from granite, Fines are washed away. Fine material: 25% Gravel: 75%										£ " '
985.48	40		6	ЩЩ	<u></u>			<u> </u>		Gravel : 75%			Ĺ	<u></u>			<u>_</u>	<u> </u>	<u> </u>	10_
						1	1			o driller a note 4 1. 2 iaudiatioki. 3 ipiecel. 4 itraomanti. 8 igraini					Post Dist	)[	C	9 4	Ð	
			. '		1 -0070 (0 000	40			i∼5 (a) daoony					E	ECTI	iC P	OWER	DEV	ELOPMENT	CO, LTD
					-RQD															

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0	LUR	PROJ		<del></del>	<del> </del>		<del></del>			HOLL			Ni-219		····		SHEE	<u>T 3 o</u>	<u>( 4 )</u>
LOCATIO	ON	DAM	SITE	(RIVE	<u>r bed</u>	)	<u></u>		D.	EPTH OF HOLE 62.00		m	COMMENC	ED	9	-11	-01		
ELEVAT	ION	102	5.48					0	, D	IRECTION OF HOLE 90°			COMPLET	ED	91	-12	-30		
COORDI!	NATE	X:4	51199	7.36						ORE RECOVERY			DRILLED	BY	M.	Cel	ik		
	•	Ϋ́:5	15737	.56				·	D	RILLING MACHINE			LOGGED	3Y	1.	Var	dal		
		ш			<u> </u>				OBSI	RVATION OF CORE	1	TE	STING	1	T	-			
ELEVATION	DEPTH	ROCK NAME	0	CORE RECOVERY	űκ	ÉB	y	ğ	Ş		3	×		BIT TYPE	CASING	CEMENTATION	WATER		Ξ
É	딦	Š	] [	ဗ ည္ထ	COLOR	WEATHER	HARO	SAC.	8	DESCRIPTION	LUGEOM	X and X	DEPTH RESULT	富	CAS	Š	DRILLY	<u>6.₩ L</u> (Dpt.H)	DEPTH
		. 62		0 + 100 <sub>9</sub>		-	<b> </b> ≖	20	n A			Kgf/c		ļ	-	뭥	-		
985.48	40m		\$ 000 B		<u> </u>	-	┼	-	-			Kyr/c		<del>-</del>		╂	%	***************************************	40m
		Deposit	0.00																
	1 -5	Ž P	0.00							•			-		44				<u> </u>
	7 (11)	e.1	0.00						1	Silty sandy gravel : Gravels are fine and			1						
1.0° _ 4	2	Alluvi	300				.		1	Silty sandy gravel: Gravels are fine and medium in size and originated from granite. Fines are washed away. Fine material: 15% Granite: 76%					$\vdash$	├-			2
	1311	A11	o 00							Fine material: 15% Granite : 75%			ļ						i.b
1.	3 -		+	7	1	+-	1	<u> </u>					1			}			3
	4.1		;					2		43.0-62.0m Granite All joint surfaces are			}						
	4 -							,		oxidized : 1-2mm clay- quartzite infillings:									4
	1	·	+ }				2	3		thin quartzite veins.				1					
	. 6		+ }			3													-5
	1							3											
· ]	6 J				]		-												6
	_ 1		+		•		3	4		Fractured zone									
- 1	2 1		+			<u> </u>	Į												- 7
	8-1		+		-					Many quartzite veins be- tween 47.4-58.35m; these					}				
		-			1		5	3		joints are the cause of a fracture zone. Joints have									-8
	(1		+ 1							rough surfaces and are filled with 1-2mm quartzite or clay.									
İ	9 -		4-							48.25-48.95: Vertical joint									-9
	50 -		+					3		· • • • • • • • • • • • • • • • • • • •				8 Smm					
	90 -	اح	. 1					4		Fractured zone				986			- [	2.000	-50
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	3	.	_+			2			. [										-3
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	9 -		. #					5											-9
	سنا		+ 1			2	1	2		A few oxidized joint sur- faces								ļ	
965.48	60 <del>-</del>			MAIIIII		3		3		• Giller's nate 4			<u></u>						60
				KA R		Ī	1,	T inacin		2 (milatick), 3 (place), 4 (fragment), 6 (grain)			K	ene grade sea Presi neri	1	C	40		
			•	L	ocea kase - RQD	a 1	Kresiv						E	ECTR	IC PO	HER	DEVE	rodwent (	O 110
										10 2 12									

0	LUR	PROJI	CT								11(	LE No	)	Ni	-219			1.5	HEE	<u> </u>	4)
		DAM	SITE	RIVER	BED			<u>.</u>		EPTH OF HOLE					COMMENCE					, v	
ELEVAT	10N .	102	5.48				1	<u> </u>	DI	RECTION OF HOLE					COMPLETE						
COORDI	NATE .			7,36										_	DRILLED I	_					
		Y:5	15737	.56						RILLING MACHINE				EST	LOGGED B	Υ 	<u>'. !</u>				
ELEVATION	DEPTH	ROCK NAME	3 0 1	CORE	COLOR	WEATHER-	HARD- NESS		ROCK VALUATION S	DESCRI	PTION	LUGEON	TT	T	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L (Opt.H)	ОЕРТН
	60m			0 → 100%									Kg	f/cm					%		60m
965,48 963,48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gр	+ . + . + .		Whitish grey	2 3	1	3		Vory hard and						\$66mm					1 2
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945.48	80		L,				1	_	<u> </u>	> driller's note 4			1_		<u></u>				<u></u>	<u> </u>	E 80
					4			1 thard	0~5 <i>1</i> s	d. 2(substick), 3(place), 4ffr oft)	aqmentil. 6 (grain)					LECTO				D ELOPMENT	CO 11n
				L	RQD RQD	35	1 [{163	ផ~6(	ascon	දගදෙන්)					· Ł	KE 10 11	NO P	UNE	. DEA	LLOTMERI	vv., £10

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LOCATIO:		DAM	SITE	(LEFT	BANK				DE	PTH OF HOLE 127.00		П	. (	COMMENCE	) _	90	-06-	05	· · · · · · · · · · · · · · · · · · ·	
ELEVATI(									DI	RECTION OF HOLE 90'			. (	COMPLETE	) _	90	10-	04_		
COORDIN		X 48	51187	9.04					CC	RE RECOVERY		%	. !	DRILLED I	31	7.(	Caki	r	· · · · · · · · · · · · · · · · · · ·	
			<u> 15613</u>			· · · ·			DF	ILLING MACHINE			. ]	LOCCED BY	Υ	1.1	/ard	al		
z		щ	ب <del>اسا</del> ستونون	≿				(	DOSE	RVATION OF CORE			EST	NG	ň	.,	NO	88.		
ELEVATION	DEPTH	ROCK NAME	507	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	Pmax	L	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L (Bpt.H)	ОЕРТН
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	5 -	1 1	١,				ľ	2			24.7	0							ļ	- - 5
	3 7										Lu=24	~								
	6		L		te	3	3	4		Cracky along the contact	_	<u> </u>								E 69
		Rhyolite	L		White	2	2	2		17.00~17.25m Cracky	7									-
	7 -	by C			d's	1	,	,			Lu=40	2								Ę. 7
	-	122			Pinkish	3	3	3			김		-							<u> </u>
	8 -		1		1			<del> </del>	1		1									8
	9 -	Diabase	T			2	2	2		18,40-18,70m Cracky	40.1	0								E
	-	Dia				3	3	3			Lu=40			-						-
1065.22	20	<u>L</u>		HARIII!	<u> </u>	1	<u> </u>	Ļ	<u>L</u>	A The's pole of		<u>L</u>	1	<u> </u>	1	<u>L</u> _	1	<u></u>		F 20
				N	A core to			日の数の	5 - B (e	> driller's note 4 K. 2 łaubatick). 3 tpisco). 4 ifraqmenti. 5 (grain) indiad.					LECTI				D ELOPMENT	CO., LTO

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0	LUR	PROJ	ECT_							HOLE				-210				HEE	<u> 2 o</u> i	7_}
LOCATI	ON	DAM	SITE	(LEFT	BANK				DI	EPTH OF HOLE 127.00		D_	(	COMMENCE	) _	90	-06-	05		
ELEVAT			5,22						DI	RECTION OF HOLE 90'			(	COMPLETER	) _	90	10-	04		
				9.04					CO	ORE RECOVERY		%	[	ORILLED 1	3Y _	Ν,(	aki	ŗ		
			15613			- :			DÍ	RILLING MACHINE				OGGED BY	Ι,	<u>[,</u> ]	/ard	al		
	-									RVATION OF CORE			STI	NG			3	ec		
ELEVATION	ОЕРТН	ROCK NAME	507	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	ď	P.C	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L. (Dpt.H)	ОЕРТН
	20m			0 → 100 <sub>0</sub>								Kgf/	cui					%		20m
1065.22	1	D1abase	T		Green, Grey	3	20-50 20-50	2 3 2		Shear zone (20deg)	Lu=40	10							:	2
	3	D18	1 1		Brownish	3	2 5 3	2 ; 3		Vertical Joint	ĭu'=43.5	છ								3
	5		L								Lu . =45	80								4 5
	6 -		L			1	1	1		Crack surface is exidized	Lu=13	10								6 7
	9-	Rhyollte			Light Grey	,	\$				Lumas	10								8 9 9 00
	1		L		1	2	2	2			1.u=45	10								المستالين المستل
	3										1.=40.5	6								3
	4					3	5	2 5 3		33.80-34.20 dinbuse (30dog)	35 Lu									4
	5 6		<del> </del>				2	3	,,,,	Cracky zone	Lu≈35	10								5 5 10 11 11 11
	7	Diabase	<u> </u>		Dark Green	3		2		39.0-39.4m Cracky zone Crack surface is strongly oxidized. Many vertical Joints										المسائدية . ع
	8		1		Da		3	3		many vertical dollars	£u=4	10								8 9 9 11:11:11:11:11:11:11:11:11:11:11:11:11:
1045,22	40	L	<u> </u>		7	1	†		l letick	> gr#er's note 4 (). 2 (substick), 3 (piece), 4 (fragment), 6 (grain) off)	<u>L</u>	L <u>.</u> .l						o le	) В привит	F 40

. 0	LUR	PROJ	FCT							KOL	E No		SK-	-210			{	SHEE	T 3 of	f 7 }
LOCATI				(LEPT	BANK	]				EPTH OF HOLE 127.00				COMMENCE						
ELEVAT			5.22		· · · · · · · · · · · · · · · · · · ·			<u> </u>	,	RECTION OF HOLE 90°				COMPLETEI			-10-			
COORDI	NATE [		51187 15613							RE RECOVERY RILLING MACHINE			•	DRILLED I LOGGED B'			vari Vari			
-			T	<u></u>				(		RVATION OF CORE	I		STI					77		
ELEVATION	DEPTH	ROCK NAME	100	CORE		WEATHER-	HARD- NESS	SPACING	ROCK EVALUATION	DESCRIPTION	LUGEON	P. S. E. S.	၂၀ (၁၈)	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ā	G.W.L (Opt.H)	
045.22	40m		I	0 → 100	 	3	3	3			1	Vät	/G81				_	%		40m
	# Participal Participa		.l.					3			Lu=1.3	10								السورالدورية
	22		1					2												2
	33 33 34 (3)		<del> </del>					3			Lu=3	10								3
	4		1				2			Calcite along crack surface		0								4
	9 9		<del>-</del> -					2			Lu<1	, , , , , , , , , , , , , , , , , , ,								6 6
	7	2+   -	1			2					Lu<1	0								7
	8		1				3	4			1									8
	9		<del> </del>							48,80-49.00m Fragments	0=n	0.7								g g
	50 T	D1abase	1		k Oreer	,	2	2		·										E-50
	-	Ö	1		Dark		} }			Cracky	Luci	07								1
	5	* :	1				2 1 3	3 1 S		e de la companya de l										2
	3		1			3		2			Lu<1	10								
	4		1					s												الله الله الله الله الله الله الله الله
	2 2 3		<del> </del>					3		56,00-56.20m Fragment	Lu<1	10								5 5
	6 de refrance 7 de refrance		1				2				77	υ								16 16 16 17 17
	8							1		Crack surface is stightly oxidized.	, ru	1								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	9		1					2			Lu<1	10							58.80m (Final)	<del>المراب المالية</del> 3
026.22	80	· ·	1							·										E 60

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	108		չ (բրե	r bank	()			D	DOMEST AND TO A DOMEST				COMMENCE	D _	90			T 40	
TE _		5.22					m_	D	IRECTION OF HOLE 90'	<u>-</u>		-	COMPLETE	D _	90	-10-	04		
	44		9.04						ORE RECOVERY		%	-	DRILLED I	BY _	Χ.	Caki	r	<del></del>	
	Y:5	1561.	3.04						RILLING MACHINE			_	LOGGED B	Υ _	[.]	Varo	lal		
<b>.</b>	AME	ıs	λ Ε	-	è	T 6	ر ار	088 5	ERVATION OF CORE	-	T	EST	ING	Ä	ű	TION	ATER RN		H
DEPTH	SOCK N	О	COR	COLOR	EATE:	ARD	1.7.5	S S S	DESCRIPTION	NGEO	Paex	o a	DEPTH RESULT	BIT TYPE	CASING	MENT	RETU	G.W.L (Opt.H)	рертн
50m					<b>*</b>	<u> </u>	3			<del>                                     </del>	Kgi	/cnf				ಪ	۵ %		60m
Trans.		I																	
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6 1	abs		<b>2</b>			-			Slickenside observed on		ļ	·						:	6
1	Д			De	2	3	4		crack surface.Shear zone.	-									
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8 -		_L	<u>,                                      </u>		\$	ļ 				L					!	-			-8
1917		1				2	3												
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1						3	4							1				į	-
1		エ							Shear zone				}						- 70 -
1		1				\$	4		Some part is silty.	Į,	10								- 1
4				 	-	-			Slime								{		-
2 ]		T	掤	<b> </b>			<u> </u>		Slickenside on crack	ļ									- 2
3 1		1					3		surface, Slignly Oxidized	70	0								3
1		T.					1		•	13	-								-
4		$\perp$					2		74.9-75.0m Small fragment				•						-1
4					2	2	_			7									-
3	9	}		een			3			μΩ	<u>~</u>								-5 -
6 =	apas			11								ļ		ĺ					-6
1	ភ			Dark			2			F-1			- 1						-
7 -										Lu<	2					Ì			7
8 1		⊥ k															İ		- 8
andar		1			1	1	1												. "
9 1		1				2	2			3	2		]	ŀ					- 9
1				i i	_					-									
		k		1	1	1	1	(stick)	b driffer's note 4 2 (subatick), 3 (place), 4 (fragment), 5 (creix)	~		I.	E				I AP		
	$\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{5}$ $\frac{6}{6}$ $\frac{7}{7}$ $\frac{8}{8}$ $\frac{9}{9}$ $\frac{0}{1}$ $\frac{1}{2}$ $\frac{3}{3}$ $\frac{4}{7}$ $\frac{5}{5}$ $\frac{5}{5}$ $\frac{7}{7}$ $\frac{3}{2}$	2 3 4 5 6 7 8 8 0 1 2 3 4 5 6 7 8 8 7 0 1 8 0 1 8 8 1 0 0 1 8 8 1 0 0 1 0 0 1	Om T T T T T T T T T T T T T T T T T T T	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 5 6 7 8 8 9 0 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 7 8 9 0 1 2 3 4 5 6 7 8 9	Disbase  Disbase  Disbase  Disbase  Disbase  Dark Green  Dark Green	Data Green  Data base	1	0 m	1	1	1	1	1	1	1	1	1	1	1

<u>Page \_\_\_\_</u>

0	LUR	PROJ	ECT	· ·						HOLE	No.	•	SK	-210	····		1 5	HEE	f 5 of	7 }
LOCATI										PTH OF HOLE 127.00				COMMENCEI					<del></del>	
ELEVAT										RECTION OF HOLE 90°				COMPLETE					···	
COORDI	VATE				:					RE RECOVERY				DRILLED I	_					
		Y:5	15613	r	<u> </u>					TLLING MACHINE  RVATION OF CORE			EST	LOGGED B	ر ار	<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ELEVATION	DEPTH	ROCK NAME	ာ ဝ ၁	CORE	COLOR	WEATHER-	HARD- NESS		ROCK EVALUATION 9	DESCRIPTION	LUGEON	Рпвх		DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L (Opt.H)	ОЕРТН
	.80m			0 + 100 <sub>9</sub>		1						Kgt	/cni					%		80m
1005.22	1 -	· .	1 1			1	1	1		Crack surface is not oxidized (fresh). Calcite on crack surface	Lu </td <td>1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td>	1.0								2
	3	Diabase			c Green	2	2	1			Lum4.6	10							:	3
	5 -	DI			Dark	2	3	3		Yertical Joint	Lu=2	10								5
	7		<del> </del>		· G	1 5 2	1 1 2	2		Vertical Joint	Lu<1	0.1								7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	90	Rhyo11te			Pinkish White	2 3	2 3	4			Lus4	10								90
	1	Diabase	1		D.pg	2 5 3	2	2			Lu<1	10								ا المسلودياليو
	3					3	2	3		·	Lu<1	01								3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	5	Rhyol I te	L		cish White		3 4	3		HTA red color. Eastly broken by finger in some part.	Lu<1	0.1								الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية الماليدية
	7	Rhyo			White-Pinki	3	3	3			Luso	10				, , , , , , , , , , , , , , , , , , , ,				د در این دارد در اورد
985.22	8 - 9 -							1		Small hard fragments	Luci	0.1								8 9 100 100
			, <del>, , , , , , , , , , , , , , , , , , </del>	0 2	3	1	1			> driffer's note ∢ ), 2 (subatick), 3 (place), 4 (fragment), 6 (grain)					2000 P.	2	C		D	
			-		Y —core la —RQD	) 188		l (hard	5 - 5 is										ELOPMENT	CO. LTD

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OLUR	PROJ	ECT							HOLE	No.	•	SK	-210			1.5	HEE	T 6 01	7 ]
LOCATION			(LEFT	BANK	)				EPTH OF HOLE 127.00		m	•	COMMENCE	) _	90	-06-	05	·	
ELEVATION		5.22		<del></del>			1		RECTION OF HOLE 90°				COMPLETE	_		-10-			
COORDINATE							·		ORE RECOVERY				DRILLED I	•		Caki		······································	
		15613 I		1					NILLING MACHINE	Γ	-	EST	LOGGED BY	Y _	1.	Var(			
ELEVATION DEPTH	ROCK NAME	ار د 0 ھ	CORE RECOVERY		WEATHER-	HARD-	1	EVALUATION	DESCRIPTION	LUGEON	Pmex	Pc	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Opt.H)	оертн
100m 985.22			0 → 100 <sub>%</sub>	ś	-	-				-	Kgf	/cm					%		100m
1 -	6 THE THE THE THE THE THE THE THE THE THE			n White		3	3			Lu=2	O 단								1
3 -	Ehyol1te			White-Pinkish	3	3	3		BTA light grey, easily broken by finger in some place.	Luc1	10								3
5 -		L		**		5	1		Calcite vein along cracks	Lual.2	10								ت المسال المسال
7 -	D1abase	1		ark Green	2	2	2		106.4-106.6m HTA Somewhat soft	1>17	10								7
9 -		1		Ω 						Lu<1	10								9
110-		<u>.</u>					3		Generally, crack surface is in pinkish color,	Lu<1	10								110
3 -		لت لت ل		White	S	2	2			Lu<1	10								20 m
5	Rhyolite			White-Pinkish V			4			Lu=1.3	1.0							·	5
7 -				Whi			2		117.6-117.8m Cracky	Lu<1	10								6 7
9-					3	3	5		HTA  118.4-118.8m Diabase substic core	Lu=2 Lu<1	10								8
EWISS 120	<b>1</b>			ecro ta	29 1		thard.	fetick -5 fct		<u> </u>	L	<b>L</b>		ECIR				ELOPHENT	E. 120 CO, LTD

0	LUR	PROJ	ECT								KOLF				-210			15	HEE	r 7 of	7
LOCATIO	ON .	DAM	SITI	(L	EFT	BANK	L			Dł	EPTH OF HOLE 127.00		1	(	OMEXCEE	) _	90	-06-	05		
ELEVAT	ION	108	5.22					0	<u></u>	DI	RECTION OF HOLE 90°			(	COMPLETED	) _	<b>9</b> 0	<u>-10-</u>	04		
COORDI		X:4	51187	19.0	4			<b></b>		CC	DRE RECOVERY		*		ORILLED E	3Y _	Χ.	Caki	r		
		Y:5				.,				DF	RILLING MACHINE			. 1	LOGGED BY	1	1.	iarc	al		
_		Ш		T	<b>&gt;-</b> .				(	OBSE	RVATION OF CORE		1	ESTI	NG	u l		NO.	E.		1
ELEVATION	ОЕРТН	ROCK NAME	507	CORE	RECOVERY	COLOR	WEATHER-	HARD- NESS	CRACK SPACING	ROCK EVALUATION	DESCRIPTION	LUGEON	Ртах	<u>С</u>	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	G.W.L. (Opt.H)	нтаво
	120m			0 ->	100%				L				Kgf.	/cm					%		120m
965.22	<b>.</b> J. (1975) J. (1975)	Đ.									Mainly fragmentat Somewhat HTA	Lu=2	10					i			
	2	Rhyolite	L				3	3	4			Lu=3			ļ						2
	1	EK.				White						2	0								3
	33 Standard	1																			والمساويين
	4	Gр	+			Pink	3	3	3			Lu=ĕ									المراد ال
	5-		+				3	3	3				10								5
	6		Ė	M				2	<u> </u>			Lumb. 1		İ				ļ			6
958.22	* ::::::::::::::::::::::::::::::::::::	Ry	L				3	3.	5			3	10								7
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	8-							. [			·										8
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945.22	140		·	Щ	Щ	<u> </u>	<u> </u>		Ĺ							<u></u>		L_	<u> </u>	L	F 140
				M			1	1		l fatick i ~ 6 (a:	> ক্ষাভিদ্য কৰেছৰ J. 2 (substick), 3 (place), 4 (fragment), 5 (grain) pit)								9 6		
				<u>t</u>		-core to -RQD	<b>9.</b> [				posed A D O O				Ęl	FCI	ic P	UWER	UEV	ELOPMENT	CQ., LTD.

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0	LUR_	PRO.	ROJECT HOLE No. SK- DAN SITE (LEFT BANK) DEPTH OF HOLE 160.00 m C															1	HEE	f 1 o	f 8)
LOCATI	0N	DAY	ı siti	LEF	ŋj	BANK	)								COMMEXCE	D _	90	-10·	31		
ELEVAT	TON	112	25.97				····	[	1	D	IRECTION OF HOLE 90°				COMPLETE	0	91	-03	09		
COORDI	NATE	X:4	151185	6,03							ORE RECOVERY		X,		DRILLED	BY _	Ca	kir.	Cel	į	
		Y:5	15565	.43						DI	RILLING MACHINE				LOGGED B	Y					
ž		₩.	T	2			Ti-			OBSI	ERVATION OF CORE	<u> </u>	T	EST	NG	ίū	<u> </u>	20	۳. س	**********	
ELEVATION	DEPTH	ROCK NAME	507	CORE		COLOR	WEATHER	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	Pmax	<u> </u>	DEPTH RESULT	BIT TYP	CASING	CEMENTATION	DRILL WAT	G.W.L. (Opt.H)	DEPTH
1126.97	Om	-		0 <b>→</b> 10			-	-		_		-	Kgf	/cm 	<del></del>				%		Om
	1 -		1 1					4	4		Surfaces of fragments are strongly oxidized.										د در از در
			J.			Brown	4	3	2												
	3					rei.		A	5		Small fragments, partially soil										ىمىيئىدىدادىدىدادىدىلى 15 جەنىيىلىدىدادىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلىدىدىلى
			<u> </u>			<del></del>	-				6-7cm fractured zone at										-
	6 -										6.9m (clay and breccia)			-							6
	1				7			2	2												
	7							"	2					ļ.							7
					1	:															- - -
	8 7		] +				3				Generally substick core				!					,	E 8
	9	9	Т					2	2		deseractly substick core	Lu=19	10								Ë 9
	4	Diabase	1					,	,			1				g					
	10 4	ŭ	Т		$\parallel \parallel$	•		3	3							488mm					10
	14		1		$\ $						Generally substick core	25.2	0								Ē,
	1					c	-					Lus	-							•	Ē,
	2				$\prod$	nee)					Crack surfaces are oxidized (brown color)		_							ļ	2
	1				$\  \ $	첫 :						0									Ė
ļ	3 4		1			Dark						Lu=10	5								<u>}</u> 3
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	1		1			. :			2	.					į						-1 E
	5 1		1									Lu=12	0								- 5
	1						5	2				Lu			ļ						
	8								:									ļ			- 6
}	1		1				. 3					4						Ì			
	7 -		1			**			3.			Lu=1	21								- 7
	8 -		1																		£ .
	, 4 4		1						2						}		ĺ				ਾ <b>ਲ</b> -
	9 -		1								Contact of diabase and dacite is adherent.	Lu=32	01								- 9
	1	Ry					3	3	1	-	THE REAL PROPERTY.	n I		-							
105.07	<u> 20                                   </u>			L. (V	N M		<u>                                     </u>				Þ di Mer's note ∢										50
1.			1		1		1.	{ 	() នូវព	laticių). ~& leoi	2 imbatioki, 3 ipioce), 4 liraqmenti, 6 igraini (ti								(H)		 ea .**
				î أ	- 14	ero los	s 1	ifreshi	-516	ecuito.	usea)				t.l.i	.⊌IKi	ւ քՍ	ntk	nt'AF	LOPMENT (	υυ <sub>η</sub> LTD.

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0	LUR	PROJ	ЕСТ							NOL.	E No	<u>.                                    </u>	SK	-212		····	15	HEE	Γ <u>2 of</u>	8)
LOCATI				E (LEPT	BANK					EPTH OF HOLE 160.00			-	COMMENCE	_		-10-			
ELEVAT	•	112		· · · · · · · · · · · · · · · · · · ·	<del></del>		I	1		RECTION OF HOLE 90°				COMPLETE			-03-			
COORDI	NATE				<del></del>					ORE RECOVERY				DRILLED I		Cal	kir.	<u>Cel</u>	<u>i</u>	
			15565 1	0.43	T					RILLING MACHINE	<u> </u>		- EST	LOGGED B	[] i		æ			
ELEVATION	ОЕРТИ	ROCK NAME	9 O T	CORE	COLOR	WEATHER-	HARD- NESS	SPACING	ROCK	DESCRIPTION	LUGEON	Ртвх	0 0	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER Return	G.W.L (Dpt.H)	ОЕРТИ
105.97	20m			0 + 100 <sub>%</sub>								Kgi	/cnl					%		20m
108.97	1		L							Crack surfaces are oxidized (brownish color)	Lu=34	01								1
	3		L									10								3
	7. 2. 2. 4. 2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		L		h Grey	3	2	2			Tu = 42	ເດ								4 5
	8 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rhyolite	L		Green-Greenish						Lu#30.5	10						,		7
	ئ مىدداردىدارىدىلىدىلىدى		L		Light (		3	3		28.4-34.0 vertical joints are predominant.	Lu.=46	ot			8 Smm					9
	) باردنداردنا موردنامیدارد		لت لي			3	3 4	4		Crack surface is oxidized but no infilling along the crack surface.	Lu =48	0			\$8¢					30
	3 3 January					4	3	3			Lu.=49	0								3
	4		<del> </del>					2		Crack surface is exidized and 2-5mm calcite veins.	Lu=7	10								5
	9	Diabase	1		Dark Green	3	2	3			Lu<1	0.1								- 6 7
085,97	8 8 40		1. 1.		<b>H</b>			2			Lu<1	10								-8 -9 -40
		<u>_</u>			<del></del>	<u> </u>	1	+,	(etiok)	> deliber's nota < . 2 isubaticki. 3 (piecel, 4 ffrequenti. 5 (grain)	<del></del>		لسسا	F					)	استلاسا
	-			N EL	 -care los -RQD	'. 88 1		thard	-6 (so Jecomp	ft)									LOPMENT	CO., LTO.

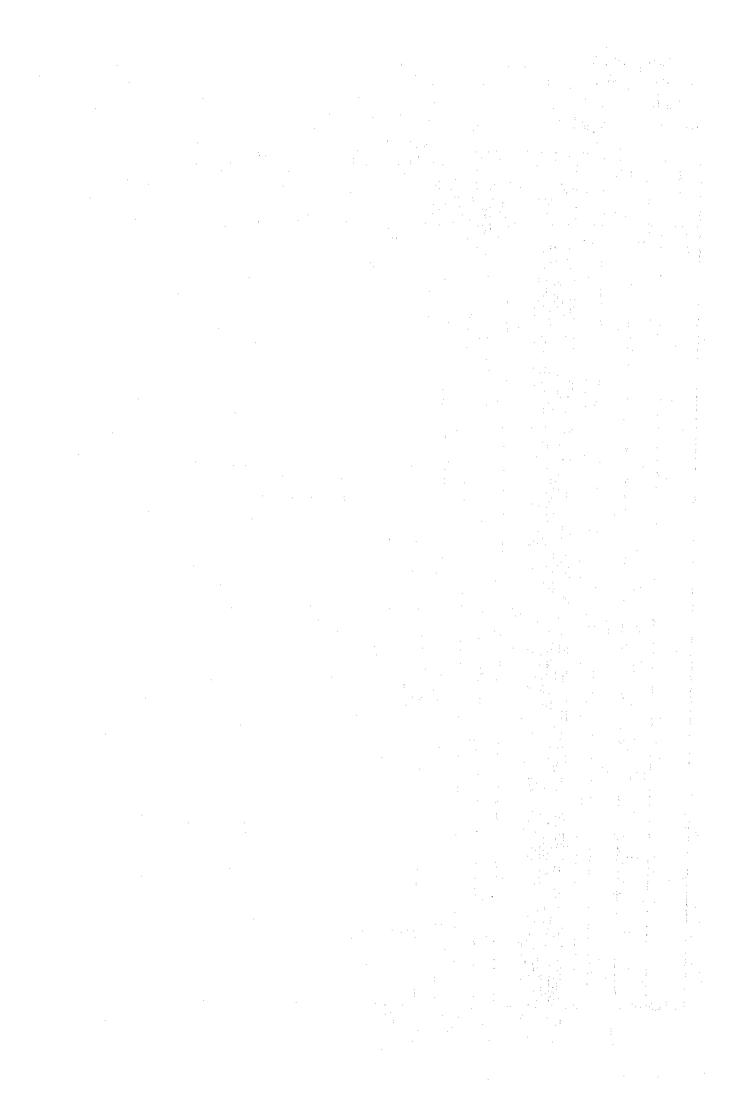
	י מינו	pno i	DOP.							HUL I	. <u>V</u> o		SK	-212			1 9	HEE?	i 3 oi	f R
LOCATIO		PROJ DAM		(LEPT	BANK)	 }			DF	PTH OF HOLE 160.00				COMMENCE		90-			1 001	
ELEVAT	_		5.97	. (3/32-3						RECTION OF HOLE 90°				COMPLETE	_					
		X:4	51185	6.03					CO	RE RECOVERY		%		DRILLED 1	3Y _	Cal	cir.	<u>Ce I</u>	<u>i</u>	
		Y:5	15565	5.43						ILLING MACHINE				LOGGED B	Y _					
<b>8</b>	72	AME	c <sub>3</sub>			i.	_ <sub>(0</sub>		)BSE	RVATION OF CORE	-		EST	NG	36,	ភ្ជ	TION	S.E.		æ
ELEVATION	рертн	ROCK NAME	10	CORE		WEATHER-	HARD- NES	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	G X W E	L	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	8	G.W.L (Opt.H)	<u> </u>
1085.97	40m		1	0 → 100°	-		_			41-42m nearly vertical		Kgf	/c#					%	·	40m
	Hiller									Joints, Joints surfaces are brown.	 		. ,					ı		
	1 -	·								٠.	Lu<;	о Н								1 1 1
	2 4					3	2	2												<u> </u>
	1		1								ω									E.
	3 1		1								LG # 1	01								<u>}</u> 3 €
	4	. *	1				-													
	4 7		1			2	2	1		Stick core										
	5		L			2	2	'			Cuki	10						ŀ		5
	11		T								~							. [		1
	6 1		T							46.0-46.5m vertical joint	1	_								E 6
	7 -		1			3	2	2			Lu=4.9	0								-7
											13									بيابيد
	8 4						-				-									E 8
						2					l Š									<u>.</u>
	9 1	a			r o	3	2	2			L	=								F 0
	50 ×	Diabase	   .		Gree	-		_		50.0-50.3. 51.0-51.3m	-	-			\$86mm					50
		Die			Dark	3	3	3		fragments	103			İ	19					
	1		1			_				·	Lu=11	2		ļ				ı		
	5 .12.44		上								L									122
	ا الميطاع									53.15-53.3m fragments Cracks are oxidized										r L
	3		1			2				WALLEST OF THE PARTY OF THE PAR	Luci	2								3
	111111		1			3	2	2			1									<u></u>
	4 1	:	T			_						1				'				E-4 -
	5 -		T			3				·  -	1	1								<u>.</u> 25
	ويموات					-					'	'								ما ما
	6					-	-	-		56.2-57.0m continuous		<u> </u>								6
	1		-							lots of Quartz	ω ω	0								£ ~
	7					3	2	3			Lu=3	2								F 7
	8 1						1	5		Small brownish fragments	-									E 8
	in the		1				2	3			-									1
	9		1					-			Lu=1	9	}							E 9
1065,97	60		1			2	2	3						<u></u>			<u>L</u>		<u> </u>	F 60
		-	* .*	13 18	1	1	1		l (etick	> driller's note 4 ). 2 (substick), 3 (piece). 4 (fragment), 5 (grein)				1	100 A	<b>3</b> [	C		Ð	

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0L	UR	PROJ	ECT					<del></del>	•	HOLI	E No		<u>SK</u>	-212		···	15	HEE	T 4 0	f 8 )
LOCATIO	Ŋ.	DAM	SITI	(LEFI	BANK	1				EPTH OF HOLE 160.00		n	-	COMMENCE	0 .	90	-10-	31		
ELEVATI	ON .	112	5,97		<del></del>	·÷	!	<u> </u>		IRECTION OF HOLE 90°	<del></del>			COMPLETE	D .	91	-03	09		
COORDIN	ATE		5							DRE RECOVERY		%	-	DRILLED	BY _	Ca	kir.	Cel	<u>i</u>	
		Y:5	15565	5.43				~~~~		RILLING MACHINE				LOGGED B	Y					
<u>8</u>	3E	AME.	6	<u>ئ</u> م بر	_	اخ		وي ا	OBSI	RVATION OF CORE	-	γ~~_	EST	ING	W.	ပ	TION	TER		
ELEVATION	DEPTH	ROCK NAME		CORE		WEATHER-	HARD	CRACK	FVALUATE	DESCRIPTION	LUGEON	Pmex	L	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Dpt.州)	DEPTH
1065.97	60m		Ī	0 → 100	%   	-	2	2			-	Kgf	/cat			-	ļ.,	%		60m
	1 2		1			5	1	3		Sheared zone (consolidated)	Lu<1	1.0								- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	3 4						2	2			Luc1	0.7								3
	و و مظميطيساسيل		1 1			3	2	3			Lum4.1	10								5 6
	2 2		1							Fresh and hard stick core Cracks are slightly weathered	Lu<1	10								7
	20 المتطبيعة المتطبيعة	)ASG	1 1		Green	2	2	1		.weathered	Lu<1	10			mm					9
	ا برسانسيداسيداليم	Diabase	1 1		Dark					72.0-72.4m calcitc vein	Lu<1	10			¢86mm					70
	ى ئ ئارىدىئانىيىلىدىد		T T			2	2	2 4		Fragments	Lu </td <td>01</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>73.90m</td> <td>2 3</td>	01							73.90m	2 3
	ق. 20 ، استوریستاسیطیست		Т Т			3	2 3	2 3 3		Crack surfaces are brownish	Lu<1	10							(Final)	5
	7		↑         †			2		2		77.0-77.2 somewhat cracky	Lu<1	10								-6
045.97	8 8 8 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		→ + -			3	2	2		Cracks are brown	Lu<1	10								-8 -9
					oore los	10		កនាថា-								C PO			LOPMENT (	- 80   CO., LTB.

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0	LUR	PROJ	CT CT					·		HOLI	<u>07. 3</u>	<u>.                                    </u>	SX	-212			(S	HEET	<u> 5 of</u>	8)
LOCATI	0//	DAM	SITE	(LEFT)						PTH OF HOLE 160.00				COMMENCEL	_		10-			
ELEVAT		112								RECTION OF HOLE 90°				COMPLETEI	_		03-		,	
	NATE _		51185 15565	6.03						ORE RECOVERY				DRILLED I LOGGED BY	_	vai	ur.	teri	<u> </u>	
			13300		,					RVATION OF CORE	1		ESTI		<u>-</u> -		8	o<		
ELEVATION	рертн	ROCK NAME	9.0.7	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS		ROCK EVALUATION	DESCRIPTION	LUGEON	Ртах	<b>9</b>	OEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRIL WATER RETURN	6.₩.L (Opt.H)	ОЕРТН
272 60	80m			0 → 100%								Kgf	/cm					%		80m
045.97	1 2 2		T T			3	2	3		Fragments in some places Surfaces of fragments are brown.	Lu=2	10								1
	4		1		.*		3	4			=									
	3		_ _ _								Lu<1	10								3
	4 5		1 1			2	2	2			Lu<1	10								5
	8		T								1									6
	7		1			3	2	3			Lu<1	10		,						7
	8 -		1							Fresh and hard stick core	_									8
	93 111 121 141 140		1		ue	2	2	2			Lu<1	10								9
-	90	Diabase	1		Dark Green										#88mm					90
- :	2		1		. ~						Lu<1	0.1								2
	3 3		1 1					2		92.5m,2cm sheared zone. (consolidated)	Lu<1	10								3
	4		1 1				2			Mainly fragmental										4
	8		1			3	Ş	3		Surfaces of fragments are brown.	Lu<1	02								5
	6		1				3	1								:				6
	7		1. 1.								Lu≃0	10				i				7 !:
	8		T				3	3		Crack surfaces are fresh below 97.6m depth.	-	-								E 8
025.97	9		T			2	2	2		97.8-98.0m sheared zone. Fragments	Lumo	10								. 9 9
<u> </u>					   	+	1		   (etiok   ~ 5 (s.	» driffer's note 4 1. 2 (eubstick), 3 (piece), 4 (fragment), 5 (grain) 141	J	L			22.6 Kg					
					ento los - RQD	às 1				pesed				E	LECTA		OWER	DEV	ELOPMENT	ۯ., LTD.
										AP-3-24							3			

0	LUR	PROJI		<u> </u>							HOLE N				212			LS	HEE	<u> 6 of</u>	8)
LOCATIO	01/	DAM	SITE	[LEFT	<u>BANK</u>	)			DE	PTH OF HOLE 160	.00		Į.	. (	<b>COAMEXCE</b>	) _	90	-10-	31		
ELEVAT.		112	5.97				1	<u></u>	DI	RECTION OF HOLE 90°				. (	COMPLETE	)	91	-03-	09		
COORDI!	VATE	X:4	51185	6.03					CO	RE RECOVERY			ξ		ORILLED E	Y _	<u>Cal</u>	<u>ir.</u>	Cel:	i	
			15565						DH	ILLING MACHINE	·			. !	OGGED BY	′ _					
z		Щ.		>-				(	BSE	RVATION OF CORE			T	EST	NG	ш			RN		
ELEVATION	DEPTH	ROCK NAME	L 0 G	CORE	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	2 0 0	_	Рпех		DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ORICL W	6.W.L (Opt.H)	ОЕРТН
	100m			0 + 100%									Kgf.	/cai					%		100m
1025,97	1		1			2	3	2	-	Fragment surfaces şlightly weathered	are	257	10								1
	2 - 3 -		1 1 1					2		100.4~100.6 silici	fled	-47	10								2 3
	4 - 5 -		1 1				[	3		Calcite along crac		0=57	10								5
	7		1 1 1			1						0 4 5 7	10		_						6 7
	8 9	981	1 1		Green		2	j 5		Fresh and bard, stick to substick	core	7 > 22	01			ugu.					8 9 8 9
	110	Diabase	1 1		Dark G			2		:		1 >0.7	0			\$8mm					ا 10 ا المسلمينياني
	2 - 3 -		1			2						0=n-1	10								ى دىلىلىدىلىدىلىدىلىدىلىدىلىدىلىدىلىدىلى
	4 5		<del>1</del>					2		115.1-115.5m crac Slickenside along surface.	crack	E. L=1.3	0 1								عرباليونيارين مارياليونيارين
	6 7					3	3	3		Vertical joint	i i	ru=1.0	10								6 7
	8 - 9 -		<del> </del>			1 2	2	2		Stlicified (30deg)		ח=ח	0								8 9 
1005,97	120	1	L <u>.</u>		<u> </u>	1	†		latick	> Griller's note 4 1, 2 (substick), 3 (pleas), 4 (freqment), 6 off)	i (grein)	L		l						B ELOOMENT	E 120

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					-cere lo	1		therd	- B (#)	> drijer'e nate ∢ 1. 2 izubaticki, 3 ipisael, 4 ilregmenti irti 2000-di	6 (graint						DE PE			D ELOPMENT	CO. LTR
985.97	140				<u> </u>	Ϊ,	Ļ	Ļ		Assistant and			L			<u></u>	<u> </u>	L.,		<u> </u>	140
•	3 L.		L			2	2	3		Fragments In some	place	Lu<1	10								9
£ .	8		L										L								8
												Lu </td <td>H</td> <td></td> <td></td> <td></td> <td></td> <td>!</td> <td></td> <td></td> <td>دىدادىد</td>	H					!			دىدادىد
	71		L		EA.	2	2	2		·		Ÿ	0								ا ا ا ا
· .	6 11	Rhyo	L		Whitish			:		Flow structure		#4 —	ļ								6
	5	Rhyol1te	L		sh Grey	١,	5		İ			ĭu=1.8	10								5
	4		L		<u>\$</u>							<b>a</b> 0									1
.	3		│ │ ┃ ┃			l	1	1		reddish brown.		Lu<1	10	!							-3 - - - -
	11		Ļ					. ·		Crack surface is	slightly	ij	0								
	2		L.					3		·		<b>&gt;</b> -1									2
	1111	DЬ	L		13.83	2~	3	3		Dark green		1.u27	10								1
	130 -		L_			3	2	3								<b>⊅86mm</b>					130
	8	Enyolite	L		Gray	2				:		Luml.	10								9
	8 1	i te	L		>	2	2	2		Partially fragmen	ital										8
	111111		L		<b> -</b>	3	3	3		Many Qz(2-3mm,dla	meter)	וני	1								يسلس
	7-1	·	1									Lu<1	0					į			7
	6 1		1							· · · · · · · · · · · · · · · · · · ·		71									6
	2 1,,,,1		T			2	2	2		125.5-125.6m era	icky	Lumi 3	10								55
	411111	Diabase	1		Dark G					• • • • • • • • • • • • • • • • • • •											4
	3	986			Green	-	3	4	•	Fragment		Lu=1.	10								3
	5 1 1 1 1 1		1			3	3	3-4		Sheared zone (40d	leg)	61			,						s
]	T. characters	.	1			2	2	3				Lu<;	110		ļ					;	- 1 1 1 1 1
005.97			T .					2				***	0							į	
	120m	. R		0 ≠ 100 <sub>%</sub>		W	H.	స్వ	έν				Kgf	/cmi				빙	%		120m
ELEVATION	DEPTH	ROCK NAME	1.05	CORE RECOVERY	COLOR	WEATHER-	HARD- NESS	PACING	ROCK	DESCRIPTION		LUGEON	Рпах	РС	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	RETURN	G.₩.L (Opt.H)	DEPTH
			15565							ILLING MACHINE RVATION OF CORE				l Esti	OGGED BY			Š	# T	·	
		X:4	51185	6.03					CO	The second secon					RILLED E		Cak	ir.	Celi	<u> </u>	
LOCATI ELEVAT		<u>DAM</u> 112!			BANK					PTH OF HOLE 16  RECTION OF HOLE 90					OMMENCED OMPLETED						
		PROJ						·····		TOTAL OF HOLD	HOLE				212					7 01	8)

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					GE	ΞΟ	Ļ	OG	ilC	LOG OF DRILL									
		PROJ		45.75.797	B 4 10 C													<u>EEF 8 0</u>	<u>8</u>
				(LEFT	BANK					PTH OF HOLE 160.00  RECTION OF HOLE 90°				COMMENCEI COMPLETEI	~				
ELEVAT				6.03						RE RECOVERY					_			el <u>i</u>	
COORDI	NATE _		15565		• .					ILLING MACHINE				LOCGED B					
				ί	1			-		RVATION OF CORE			EST	NG	ш		N O		T
ELEVATION	ОЕРТН	ROCK NAME	50.7	CORE	COLOR	WEATHER-	HARD-	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	Равх	РС	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	G.W.L (Opt.H)	DEPTH
985.97	140m			0 → 100 <sub>9</sub>	, 1							Kgf	/cm		ļ		-	%	1/101
	1111		-			2	2	3			0							1	
	1 -		-				1			Some vertical joints	Lu=0	1.0							1
	2 -	1 te	<u> </u>			2	,	2			ļ								2
	1	Rhyol1te	L				2				0								
	3 -	α.	L								Lum	2.							:3
	a thin		L							Fragments Slickenside of calcite									<u>.</u>
	4 -	· ·	1			3	3	4		on crack surface									F."
	5 -										Lu<1	01							55
	a a fine							2			-	-							ţ.
	6 -		1					3			-	-							-
	7 -										Luci	0					-		F 7
	, 1111		1					2			ä								
	8	 	T							·	-	_		-					8
	بيلس		Τ				2			Calcite on crack surface	60	,							<u>.</u>
	9-1		بار		Ç.			1			Lu=2	Ĭ							9
	150		上		Gree						_				\$86mm				F 15
	1		1		Dark	2				Calcite on crack surface					6				
	1 3		1								Luci	10							£ 1
	1	98						2											F 2
ļ	% - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Diabase	L																į.
	31	Α.					2	3			Luci	01							£ 3
	1		1				֓֞֜֞֞֜֞֜֞֜֞֜֜֜֜֡֡	′											i i
	4		1			:							1						1
	2		1								1>n7	10							5
	45344	''. 	1				2	2			14								
	6 1		1								-	-					-		E 18
	_ - To ter	٠.	1				1	3		Fragmonts	=	0							1
	7		1			2	3	1			Luci	Ĭ							1 7 E
	8 -		1.				s	2			_	-							8
			1			1		3		Fragments and 5-10cm									
	9		1			3	3	1		vertient joint.	Tru=0	2							9
961 <b>5.9</b> 7	160 -							1		End of the Borehole					L				<u> </u>
				N K	1	1	1	+	letick	> Grater's note 4 I. 2 (substick), 3 (place), 4 (tragment), 6 (grain)				500				lab	

01	.UR	PROJ	ECT								HOLE	No	· 	SKI	-216			<u> </u>	HEET	<u>l of</u>	3)
LOCATIO	)N	DAM	SITE	(LEPT	BANK	)			DE	CPTH OF HOLE	50.00		M	(	COMMENCE	) _	91-	<u> 95-</u>	07		
ELEVATI	[ON ]	104	8.3				ű	1	DI	RECTION OF HOLE	45°			(	OMPLETE(	) _	91	06-	11		
COORDIN	<b>VATE</b>	X:4	51184	5.76					CC	re recovery			X	Į	DRILLED I	3¥ _	М.(	<u>eli</u>	k		
			15663						DF	HILLING MACHINE				}	OGGED BY	/ _	1,1	lard	al_		
	·	in in		نند بر	Ĺ			(	DBSE	RVATION OF CORE			11	STI	NG	ш		5	8		]
ELEVATION	DEPTH	RDCK NAME	507	CORE RECOVERY	COLOR	WEATHER- ING	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTIO	) O <b>N</b>	LUGEON	Рмах	Po	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	G.W.L (Opt.H)	ОЕРТН
	Om			0 → 100 <sub>0</sub>									Kgf.	/crl					%		Om
1048.30	1		+ + + + +				3	4			į										1
	2 2		· + · +				1				·										2 3
	3 4		+	2		3		3				1	•								4
	5	 2	+				3	3 3		Generally fract joint surfaces	ured; all				ļ					i	5
	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Porp	+ + +		sh Brown	5		3		dized: mostly n tion in mineral occasional feat	o attera-	Lu=34									-6 -7
	8	Granite	· + +		Pinkish		:.	3 1				ជ			-						8
	9.		+ + +			4	3	2 3				Lu≖29			:						9
	10		• + • : + :				,	3													10
	5 L		· + +				4	3				8 7			  -  -						2
·	3	Db	+		D.er	3	2	2				Lu=34.	10		1						3
	4 7 10 17 10	Gp	1		p.tr	2	3	3		Fractured zone, Joint surfaces	postptxo	Lu=4.8									4 المالية 15 المالية 14 المالية
	6 9		1		<u>.</u>			1					İ		'						ئادىرىلىدىلد مادىرىلىدىدىلد
	7	Diabase	1 1		Dark Gre	3	2			Oxidized Joint	surfaces	Lu=11			! !						7
	8 7	:	Т Т					2 1		llard , sound		Lu=12								1	8 9
1028,30	20				— core to	***		l (hard	l (stick D~5/s dagom		nti. 5 (grein)	L				ECTR		,		) ELOPMENT	E 20 CO., LTD.

٠.	LUR	D90 I	ГĈТ			GE			ЭG	ilC	LOG OF DRILL				E-216					T 2 of	
LOCATIO						BANK)					IPTH OF HOLE 50.00		B	_	COMMEXCE		91				
EĻĒVAT	ION .										RECTION OF HOLE 45°				COMPLETE						
COORDIA	NATE _		51184 1566:								RE RECOVERY				DRILLED I LOGGED B		<u>N.</u>				
<b>z</b>			1000								RVATION OF CORE			EST			<u> </u>				
ELEVATION	0EPTH	ROCK NAME	 	CORE			WEATHER-	HARD- NESS	CRACK	FOCK	DESCRIPTION	LUGEON	Ртвх	0	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Opt.H)	DEPTH
028.30	20m		1	1	100%				-			+-	1/3	/cm			-	-	%		20m
	المعديد المعدادة المعديد المعدادة		   T						1			Lu=10									المرائد ، مراد المراد ا
	3	ବ୍ୟବ	T			Crey			.5			80									2
-	3	Diabase	エ			Derk	3	2	2			Luz4.									33 34 34 34
	4		<u> </u>						0. 0			1.01									الم المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة
		È	+			c			2~3			Lu									} 
	9 J	Porphyry	<del>     </del>			Brown			2		Oxidized Joint surfaces, feather joints in place.	6.6									مدارليد
	7	Granite 1	+			Pinkish	3	2	3			Luz									7 1 1 1 1
	8-1	S B	-+-		7	Ĭ.						-									8
	9 1											Lu=4.									9
	30		1					2	2			$\vdash$	10								30
	1	Diabase	1			k Gre	3					Lu=3.5									1
	7. 11. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	7	1			Dark						1									2
	THE	•	1					3	2			12									عورسلمين عورسلمين
	3 7111	<del></del>	+				_		3			Luci									1 3
	4		+					3	3		Fractured zone, oxidized joint surfaces	1									ا ا ا
	5		+					4	4			Luse									5
	6 1	Porphyry	+			TWO.	3		2			**						ļ			6
	7		+			Sh Br	,	2	2			=4.4									- - -7
	فيريلين	Gran1te	+			Pinki			.3			La.									
	8	ð	+				4		3		Fractured zone	80									8 1 1
	9		+					3	3			Lu=9.									- 9 - 19
1008.30	40 -		+		$\prod_{i=1}^{N}$		1	<u> </u>	2^ 3		Þ dikar a nota 4		L	L	<u></u>						10
						-core las	19 1		lithayd	l fetick I ~ 15 fe da odin	). 2 (mubatick), 3 (piece), 4 (frequent), 5 (grein) of ()							~	B DEV	D ELOPMENT	CO., LTC
٠.,				ţ	,	~RQD					AP-3-29										

0	LUR	PROJ									····	E No			E-216				HEE	<u>1 3 of</u>	3_1
LOCATI	ON .					BANK					EPTH OF HOLE 50.00			_	COMMENCE	-					
ELEVAT		104				···					RECTION OF HOLE 45°				COMPLETE		91				
COORDI	NATE										DRE RECOVERY				DRILLED 1						
		Y;5	<u> 1566</u> .	3.26							RILLING MACHINE	<del></del>			LOGGED B	Y	[,'				
ž		¥	G			<u> </u>	TE.	·		OBSE	ERVATION OF CORE	-		EST	NG	E L	G	TION	ER ER		T
ELEVATION	DEPTH	ROCK NAME	0 7	<u> </u>	RECOVERY		WEATHER-	HARD	SPACIN	ROCK	DESCRIPTION	LUGEON	Paax	ဝ	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION		G.W.L. (Dpt.H)	DEPTH
1008.30	40m		+	O.⇒ VZHI	100 <sub>%</sub>	-	}		-			┼	Kgf	/cni					%		40m
								3	2		Feather Joints	02			,						
	1 -			關					3			Lu=20									1
	2 -		] :																		- 2
								3	3		Fractured zone, oxidized	0.									
	3 -		+				3	4	4			Lu=1									-3
	4	, <u>t</u>	+			Ę		3	2			_									-4
		Porphyry	+			Brown			_			ເລ		İ							
	5	9. Q.	+	M			1	-				Lu=4	2								-5
	6 –	Granite	+			Pinkish					Fractured zone, oxidized	_									G
		G	+				4	3	3		joint surfaces	0									
	7 -		+				-1	Ş	,			Zu=8									7
	8 -		+																		-  -  -  -  -
			+					4	4		•									l L	E 
	9 -		+									Lu=8									9
938.30	50-		+																		50
	1										End of the Borehole			ĺ							
	1	·																			1
	2						-														[- [-,
	1																				
	3 -3																				3
	. <u> </u>																				E .
	* []																			]	E E
	5																			<u> </u>	5
	6																				F
	6 77																				
:	7																				7
	1	-																			ا م
	87																			! !	<u>-</u> 8
	<b>ទ</b> ុក្													'							9
003 =	,_ i										·										٠
986.30	60		L	胃	ШШ /л	1	•	•	•	Latina	> driller's note 4 1), 2 (substick), 3 (picce), 4 (fragment), 6 (grain)	-L	ł	L	 E		)	<u> </u>	L	£)	<u> </u>
				1/1	R	-core io	 		(hero	9~5(a										ELOPHENT	CO., LYO
				•		-RQD					•										

					GI	ΞΟ	L.(	)G	ilO	LOG OF DRILL	HC	)L	E			P	age	<u>)</u>		
Ol	LUR	PROJ	ECT							HOLE	No.		SK	-211			( S	HEE	<u> </u>	8 )
LOCATIO				(RIGHT	r BANI	K)			DF	EPTH OF HOLE 150.00		81	_	COMMENCE	)	90	-11-	15		
ELEVAT		110	-							RECTION OF HOLE 90°			_	COMPLETE	) _	91	-04-	04		
COORD1	_	X:4	51186	0.16					CC	RE RECOVERY		%		DRILLED !	3Y _	H.	Basa	ran	ــــــــــــــــــــــــــــــــــــــ	
				.19					DF	RILLING MACHINE			<b>-</b> .	LOGGED B'	ľ _	Ι.	Vard	al		
2		ĺщ		>:				ا	OBSE	RVATION OF CORE		T	EST	NG	(LI)		ě.	£.		
ELEVATION	DEPTH	ROCK NAME	007	CORE		WEATHER	HARD- NESS	SPACK	ROCK EYALUATION	DESCRIPTION	LUGEON	Pmax	o c	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Opt.H)	ОЕРТН
1103.87	Om		ļ <u>.</u>	0 -> 100%	<b>-</b>	<del> </del> -			-	Open exeavation	-	Kg1	f/cm				_	%	<del></del>	Om
	1					_				open exervation	Į									
	1 -		+							Slime										1
	41.11		+			1	3	4		Highly weatherd Fragments		١,								-2
	2		+			-														
	3 -							3											!	-3
- }	*****		4																	
	4									1-2cm thick diabase dikes	-	-								4
. [	e de la composição de l							5		have intruded along joints between 0.0-20.0m. Frequent feather joints,	67									
	5		+					٤		alteration in minerals, oxidation in joint	Lu=4									- 5 -
	6		+			3	3	ş		surfaces, 5.9-6.2m, 6.6-6.8m Cracky C=4-3	Ľ									6
	7		+							Сгаску С=4-3										
	7 -		+					3			Lu=39									7
			+								1									<u> </u>
	8					1					$\vdash$									-8
	1						•		]	• .	10				<u> </u>					ī.,
	9	2	+		ı.	3		3		0 4 0 0m 10 9-10 0m	E # 3									E 9
	10	Porphy	+-		brow	5	3	5		Fragments	Ľ				86mm					- 10
	,		+		11	4		4							8					i di
	1	Gran1te	+		Pinkish	1:		2			Lu=50									1
	Talen	Q g	+		P I			5			Į ä									
	2							3			$\vdash$	10								E 2
	4		1				2	Γ		Fairly hard and substick	44									
	3 -		+				-			core, but many hair cracks.	Lu=4								[	- 3 
. [	4		+			3	5				_									- 4
	1		+							1-2cm thick diabase										<u> </u>
	5-7		+				3	2		intrudes along vertical Joints.	Lu=3									5
	1441		+																	
	6										-									E-6
	1		-								22									1.1.
	7 -		4.				3	3			Lu=22									7
	8 -		+			3	5	5		Fractured zone fragments and ptoce core.									1	8
·	,		+			1	-	<u> </u>		Highly woathered	9									
	9		;			4	3	2		Highly weathered Vertical Joint from 18,8m to 19,9m,	in in				ļ		-			9
	12,110						3	3			3									نتلنة
1083,87	30 -	I	<u></u>	KV "7 mamii	П	<u> </u>	<u> </u>	1	L	> critica a rate 4	<u></u>	1	L	L	-		- 15m	ـــــــــــــــــــــــــــــــــــــ	L	F_20_
				N N	-cere lo	. 1	l (frest	thard	3~6 (s								OWFR		ELOPMENT	ርብ ነገር

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0	LUR	PROJI	ECT_							HC HC	OLE N	) <u>.                                    </u>	SK	-211				HEE	r 2 of	8 )
LOCATIO	0N	DAM	SITE	(RIGHT	<u>BAN</u>	<u>K)</u>	<del></del>			PTH OF HOLE 150.00				COMMENCEI	_					
ELEVAT	-									RECTION OF HOLE 90°				COMPLETE		-	-	_		
COORDII	NATE	X:4	5 <u>1186</u>	0.16						RE RECOVERY				DRILLED I						
	·.	Y:5.	15884	.19					DR	ILLING MACHINE				LOGGED B	Υ	Ι.	Vare			
₹	~	4ME	IJ	, <del>2</del>	-	امر	10		BSE	RVATION OF CORE	72	_	EST	ING	ίρΕ	ဋ္ဌ	ATION	24 E		<u></u>
ELEVATION	ОЕРТН	ROCK NAME	L D	CORE RECOVERY	COLOR	WEATHER- ING	RD- NES	PACK	X E E G	DESCRIPTION	LUGEON	P. B. X. S. X. X. X. X. X. X. X. X. X. X. X. X. X.	d d	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ORILL WATER Return	G.W.L. (Opt.H)	ОЕРТН
<u></u>		22		0 <b>→</b> 100 g		¥ :	H	క్రా	Ğ.				f/ord			ļ	용	8 %		20m
1083.87	20m		+-			<del>                                     </del>					_	1	1	***************************************				/*		2011
	1		+				. :	2			24.8			:						
	1 -	:	+			3	3	3			Lu=24.									·
	2								:		-	-								2
	. 13:1		+					3		Cracky zone : oxidized Joint surfaces		1 1								
	3 -		+	ă IIII							Lu=30									3
	. Tu		+ 3 3 3 5 5 4 4 4							Mainly fragments	5									
	4 1		+	1		4		4												4
	5 -		+								60									-6
•	11.12		+							Many cross hair cracks	Lu									
	6		+							25.5-26.0m, 27.0-27.2m, 27.7-28.3m Cracky C=4	-	-								-6
{	17		•					3			00	:								
	7 -		•								Lum									7
	8 -		+			3	3	5						-						8
	,		+					4			ın	, ]								
	9 1	پريو	+		Ę						1.00									ត
	ig in	Porphyry	+		brown						13	i			E					
	30 -	ite P	+		nk 1sh							ᅴ음			ф86mm					30
			+		Pink					Cracky zone : oxidized joint surfaces		:								
1	, 13	Gran	-1		1					alteration in minerals, Mainly small fragments 32.6-33.1m piece core										<u> </u>
	2 -		•	и		3	3				-	_								2
	. 444		+								0	,								
	3		+			1	١,	4		·	10 10 10 10 10	1								F3
	<u> </u>		+			1	4				1,	` ]								[ ]
	4 (1)		+	<b>X</b>																
İ	5		+								4	.								5
	بداعكما		+			-		2		Vertical and high angle	Lusa									
	6						3	2		Joints are predominant.	$\vdash$	$\dashv$								6
	1	٠.	•				3 5	1			0	-								
	7		+				4				Set 1								}	F7
	8 -		+			3		2							ļ				] [	-8
	,		+	R			3	3												<u>.</u>
	9 -		+				3	<del> </del>												-9
1000 ==		-	+				3 4	4											-	
1063.87	40 3			M 1/2	7	4	<u> </u>	•	المند	> driller's pats < il 2 (substick). Siplece). 4 (fragment). C (year)		L	-L			)	7	<u> </u>	<del>1</del> А	r_4Q
					core la	 		therd	) ~ <b>6</b> (8)								- vov.m -		TELOPMENT	CO., LTD.
				h	— RQD															

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LOCATION   DAM SITE (RIGHT BANK)   DEPTH OF HOLE   150.00   @ COMMENCED   90-11-15	. 0	LUR	PROJ)	CT								HOLE !	No.		SK-	211			( S	HEET	f _ 3 of	8)
DESCRIPTION   103.67   104.04   105.00   105.0					(RIGHT	BANK	<u>()</u>			DE	PTH OF HOLE 15											
COMPONNIE   1451880.16		~														COMPLETE	) _	91	-04-	04		
100   100	COORD11	NATE _	X:4	51186	0.16	<del>-,</del>					RE RECOVERY			% 	I		-	11.	3asa	ı'an		
100   100			Y:5	15884	.19					DN	ILLING MACHINE				]			1,	/ard	al		
1083.76  1	NO.	Ŧ	NAME		RE VERY	oc.	Ġ	83	( S	BSE	RVATION OF CORE			TE	STI		TYPE	SING	TATION	WATER	r W s	37.H
1083 of	ELEV	DEP.	ROCK		SECO CO	0700	NEAT S	HARD	SPACK	FVALUA	DESCRIPTION		3	Pme		RESULT	118	CA	CEME	ORIL RE	(Opt.H)	36
1		40m			0 - 100%									Kgf/	City					%		40m
Bard substick core,	1063.87	1		+			3	3.	4		Fractured sone, ox Joint surfaces,	tdlzed		1	- 1							
1		1 4		+			-		-				1		ļ							1
1		بالبار		+				3	3			ļ									İ	_
3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		2-1		+							fland outset tak over		-									- N
A   A   A   A   A   A   A   A   A   A		3 -		+				2	2				1		į						;	3
A   A   A   A   A   A   A   A   A   A		1		+			3	. ,			· ·											
### ### ### ### ### ### #### #########	- }	4	<u>}</u>	+.		F.		3	3		! . !	.  -	-		į							4
### ### ### ### ### ### #### #########		1	rph	-1-		or ow										:						
Many vertical joints    A	1	5 7		•	ğ			3	3				1	ļ								- P3
Many vertical joints    A	• [	6 -	5 t	•		1nki	_	ļ	ļ			-	$\dashv$		. 1							6
B 3		أنداء	g.	+		p.					Many vertical joi	nts	၉									
B 3		7 -		+									( E 2									7
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T. T.		+			3	3	3				, <b>.</b> 1									
9		8 7		+			1	,	3		oxidized joint su	rfaces,		}		•		}			48.60m	Ε
Districted Report 5 (a) 1 (b) 1 (c)		9 -		-			4	4	4		trequent teather	[									(Final)	9
Do I		1										Ì	֚֚֚֚֚֓֞֝֝֞֝֞֞֝֞֟				E					<u> </u>
Db   1   3   3   3   3		50						:	:			1		ខ្ព			8 Sm					50
Strongly oxidated.    Strongly oxidated.   Strongly		1	Dь	Ī			3-	3	3		Diabase						6					Ė.
Bard substick core.    A   A   A   A   A   A   A   A   A		1 -		+									1									E 1
Hard substick core.    1		2	1	+				)	1			<u> </u>										E
Hard substick core.    1		,		+				1	ł				0									1
Hard substick core.    1043.87 60   1043.87		3		+									-:								}	3
1043.87 60  Inard substick core.    Cracked zone   Figure and   Figure   Fi		, arthur	/ -	+			-		T				Ľ				}					i L
Oxidized Joint surfaces, occasional feather Joints  This is a second to the surfaces occasional feather forms occasional		4	Į.	+							Hard substick con	·e.		Ì			}					£4
Oxidized Joint surfaces, occasional feather Joints  This is a second to the surfaces occasional feather forms occasional		e Jane	yhy			rowr			1				7									F 5
Okidized joint surfaces, occasional feather joints    Same	•	ु ।					2		2				L'u									i L
Okidized joint surfaces, occasional feather joints    Same		6 -	ıî te	+		F F		2	1			-										6
3 Cracked zone		بالنان	Grai	+		ā	,				Oxidișed Joint su	rfaces,	_									فيعاليه
1043.87 60  Crecked zone  1 talleki 2 tsubsticki 3 ipiscel 4 tiraçmenti 5 igraini  1 there-5 (soft)		7 -		+					13		occasional leath	er joints	Lu<									7
1043.87 60  Crecked zone  Crecked zone  1 talleki 2 isubaliki, 3 ipheci. 4 (fraçmenti. 5 (grain)  1 there-5 (soft)		, , ,		4-1			3							-								
1043.87 60 + 1 talleki. 2 Isubatioki. 3 Iphecel. 4 (Fragmenti. 5 (grain)  1 there-5 (soft)		8 -		+ 1								<u> </u>									[	E.
1043.87 60 + 1 talleki. 2 Isubatioki. 3 Iphecel. 4 (Fragmenti. 5 (grain)  1 there-5 (soft)		9 -		•  - -:				-	-		Cenoked zone		7	1								E - 9
1 (herd) - 5 (soft)  1 (herd) - 5 (soft)		i indi	:						4		or tremen sinter		ij	}							]	معنسه
1 (hgrd ~5 (soft)	1 <u>043.87</u>	60	<u> </u>	<u> </u>		<u>                                      </u>	1	1	1	<u> </u>			1			L			_	1	<u> </u>	<u>F 60</u>
					N E	nora In			i (hard	9~5(s	oft)	i. Ti (grais)										CO., LTD

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0	LUR	PROJ		<del>,</del>	<del></del>					HOLE				-211				HEE	4 0	8 }
LOCATI				(RIGH						PTH OF HOLE 150.00				COMMENCE	_		-11-			
										RECTION OF HOLE 90°				COMPLETE	_		-04-			
COORDI	NATE	X:4	<u>51186</u>	0.16	·····					ORE RECOVERY				DRILLED I	_				· · · · · · · · · · · · · · · · · · ·	
		Y:5	15884	.19					DF	TILLING MACHINE				LOGGED BY	í 	Ι,	Varo			
ž		WE	ی			نالم				RVATION OF CORE			ESTI	NG	36	ធ្ម	TION	NER NER		x.
ELEVATION	HIGEOTH	ROCK NAME	٦	CORE RECOVERY		WEATHER-	HARD- NES	SPACK	ROCK EVALUATI	DESCRIPTION	LUGEON	Рлах	Pc	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ă	G.W.L (Dpt.H)	ОЕРТИ
043.87	60m			0 → 100 <sub>9</sub>	<u> </u>		3					Kgf	/cm					%		60m
		9					3	1		Fractured zone	-1									
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		p,tr	3	2	2		Hard, sound	Lu<1									1
	2 -		+							63.4-63.6m Cracky, C=4	9									-
	3	:	+			3	2	3			- 1									- - 3
	1		+				3				L'I									
	4					-		-												4
	,-									Mainly sharp edged fragments	4.6									1
	8-		+								Lu=									5
	6 -	\$2	+		Ę			1		Fractured zone.oxidized										6
		Porphyry	+		brown	3				Fractured zone, oxidized joint surfaces, alteration in minerals.										
]	7		+		11						Lu=2.		ı		i					7
		Gran1te	+		Pinkish						1									
İ	8 -	S.	+		a.	5	3			Sharp edged fragments and										8
ļ	9 -		·					3		pleces of core	1.8									9
						4		,			1 2 2				ا ا					
	70		•					,				0.1			486mm					70
	1		-					4		70.3-70.4m Highly weathered along the joint	₽				6					
	1 -		+.							the joins	Lu									1
	2		+																	F 2
		Dъ			D.egr	3 4	3	3 4									ŀ			E
	3	Gp	+-		Р.Ы	3	3	3		Granite porphyry	Lu<1									E 3
		ÐЬ	1		Der	3 4	3	3~4			1									E. E.
1	4		+							Sharp edged fragments Crack surfaces are strong								]		4
	1		+			3	3	4		oxldated.	₽	•								E
	5		+			1		3			Luc									- 5 
	6 ~	7.7	+		۶	<u> </u>														6
		Porphyr	+		grey															
	7				t sh	2	,	j		Some oxidized joint surfaces.	Lu<1									E 7
- 1	17111	Grani te			Pinkish		3	ś		surrices,										
}	8 1	ર્ધ	+				2	2												E-#
<u> </u>	9		+			3					Lu<2									E 9
-	, , ,		+				25	3		liard, sound	7									[
023.87	80				<u></u>	L	3	1		> dr∰er's nots <										F 80
		I (stick). 2 (substick), 3 (steen). 4 (fragment). 5 (grain)  1 (herd) - 6 (april)																nEV	) ELOPMENT	מנו מי
					care los RQD	ia 1	(frosi	n-60	facom,	<b>∞330</b> €				£1	EUIN	nu P	O ESE	, DEAI	LLUTRICAL	υψ., LIŬ.

0	LUR	PROJ	ECT			<del></del> .				HOLE	<u> </u>	<u>.                                    </u>	SK	-211				HEE	<u> 5 of</u>	· 8 j
LOCATIO	0N	DAM							DE	PTH OF HOLE 150.00		0	. 1	COMMEXCE						
ELEVAT								1		RECTION OF HOLE 90°										
COORDI	NATE .	1 1	*	0.16		<del></del>				RE RECOVERY				DRILLED I						
		Y:5	15884	.19	·					TILLING MACHINE	1				``` <u> </u>	1.				
ELEVATION	DEPTH	ROCK NAME	100	CORE RECOVERY	COLOR	WEATHER-	HARD-	i	ROCK EVALUATION S	RVATION OF CORE  DESCRIPTION	LUGEON	Рпах	est a	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ORILL WATER RETURN	<u>G.₩.L</u> (ወpt.ዘ)	ОЕРТН
	80m			0 -+ 100%								Kgf	/cm					%		80m
1023.87	1		+ + +			3	3	3 3		Cracky: some crack surfaces are oxidized.	Lu<1									1
	2		+			"	2	1		Hard, sound	}									- 3
	3 4 1		+ + +			3	3	4		Fractured zone, oxidized joint surfaces	Lu<1									3
	6		+ + + + +			2 5 3	1	1 5 2		Fresh and hard stick to substick core.	Lu<1									5
•	6 - 7 -		+		٠.		2	2			Lu<1									7
	8		+ +				-	.,		Cracky but not exidated	1			-						8
	90	Porphyry	+ + + + + + + + + + + + + + + + + + + +		h grey		2	2		Hard, sound, some exidized Joint surfaces, feather joints in place.	Lu<1	10			.88mm					9
	1 7	Oranite	+ + + + + + + + + + + + + + + + + + + +		Pinkish	2		3		•	1-u<1				\$8.4					1
	2		, T								-									5
	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		+ + +				3	1			Lu<1									3
	4 -		+				2	2												F4
	5		+ + +							95.0-95.7m. 95.6-95.8m Craky, C=4	Lu<1									5 5 6
	7		+ + + + +			2	2	s			Lu=0									7
	9		+ . + . +			3		3			Lu' =43.23	n								esteustuudend
1003.87	100		<u> </u>			13	2~3	3	L	▶ driller's note «							<u></u>	<u>L</u> .	<u> </u>	100
					one-tr	.			letick i - 5 (a)	), 2 (substick), 3 (plece), 4 (freemont), 6 (grain)				.—	*****			e   (	FLORMENT	ca ita

<u>Page</u>

01	JIR.	PROJ								NOL1				-211				meen	6 of	8 }
LOCATIO				RIGHT	BANI	()				PTH OF HOLE 150.00		Ш	•	COMMEXCEE	~		11-			
ELEVATI	-	110						<u></u>		RECTION OF HOLE 90'				COMPLETED	_		04-			
COORDIN	IATE .									RE RECOVERY				ORILLED E				ran		
		Y:5	15884	.19						ILLING MACHINE			-	LOGGED BY	( 	1.1	ard			
ð	75	A N	G			de l	(0)	) ات	BSE 含	RVATION OF CORE	7	I	EST	NG	PE	ပ္	4719	ATER RN		ac
ELEVATION	DEPTH	ROCK NAME		CORE	2010R	WEATHER	HARD- NES	SPACIN	EVALUATI	DESCRIPTION	LUGEON	PEB	3 d	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	ă l	G.W.L (Opt.H)	ВЕРТН
1003.87	100m			0 → 100%		ļi	-	3		Ceack surfaces are		Kgf	/cni					%		100m
100,5.07			+			3	2 5 3	3		Crack surfaces are strongly oxidated.	=4.0			. !						
	1 -		+				-	2		oxidized joint surfaces (brown in colour)	1,17	σ.								-1
			+			2		.3			1									
	5 -		-+-			s	2				9									2
	3		+:			3		2		·	# 42	10								3
	" .		+				ಬ್ಲ	3		Vertical Joints	2,									
	4 -						3	3			-	-								4
	-					. 1					0								i	
	5 -		+								Lu=0								İ	ā
	6~		+				ı					0.1								6
			+																i	
	7 -		+		 	2	ş	1			[m=0									7
			4							Hard, sound, no oxidation	ĭ									<u> </u>
	8		-}-				2			4	-									8
		,								•	60									
	9	phyr			ş						Lu=2									9
	110	Porphyry	+		48.										<b>க்கிகோ</b> ள					110
		nite	+	a IIIII	inkish						2				& B					
	1 =	Grem	+		U.			4			Lu=2.									<u> </u>
	. =	8	+						i		1									
	2		+								-									- 2
	- -		-1-				2				27									E
	3 -							3		Fractured zone, oxidized Joint surfaces 112.5-112.7m,113.6-113.9m	1 5									E'
	4-		-				5			114.3-114.5m,114.9-115.0m 115.3-115.5m	<u> </u>	2								[ · ]
			+	<b>a</b>				1		Cracky, C=4	00									
	5 <del>-</del>		+			3	3	4			Lu=1.		]			}				5
	-		+	9	<b> </b>						1				ļ	}				
	6 -		+								6									6
	7 -		+								22.									[
											Lu=									<u> </u>
• }	8	- 4					2	2				1								8
		:	+			. '	2	3		Cores are broken into fragment because of brown	8.1		1			1				£ {
	9		+		"		3	1 4		,	Lu=18								İ	-9
983.87	150		+			2	2	2		Vertical joints	Ĭ			L					L	130
				0 0	1	•	1			» driller's note 4 1, 2(substick), 3 (piece), 4 (fraquiont), 5 (groin)				ŧ			)(	•   G	Ð	
					l -core la: RQD	ig (			) -6 is: decom	oft) posed)									ELOPMENT	CO., LTD.
					(COD)															

0)	LUR	PROJ	ECT			<del></del>					E No.			-211			( 5	HEE	<u> 7 of</u>	8 )
LOCATIO	ON	DAM	SITE	(RIGHT	BAN	K)				EPTH OF HOLE 150.00				COMMENCEI	) _	90	-11-	15		
ELEVAT	ION	110	3.87				<u> </u>	1	DI	RECTION OF HOLE 90°				COMPLETE	) _	91	- ()4 -	04		
COORDI	NATE _	X:4	51186	0.16		<u> </u>				ORE RECOVERY		%		DRILLED I	-	11.1	3asa	ıran		
		Y:5	15884							RILLING MACHINE				LOGGED BY	í 	1.1				
ž		ME	<sub>U</sub>	`∡≨		12.		(	OBSE	RVATION OF CORE	 	· · · · ·	EST	NG	PE	IJ	TION	TER		т
ELEVATION	DEPTH	ROCK NAME	07	CORE	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATIO	DESCRIPTION	LUGEON	P. B. B. X	o O	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER	G.W.L (Dpt.H)	рертн
983.87	120m			0 → 100°	-					- القائلة جمد منا عنيون جم منا مناطقة الإسلامية عنا المناقيق ويوم مناز مناطقة في ويوم المناز في ووارد والمناز	}	Kgf.	/cm					%		120m
860.07	S T Standardensky		+ + + + + + + + + + + + + + + + + + + +				3	3			Lu=16.7									2
	3 4 7	Porphyry	+ • + • + •		Srey	2		3 4		Fractured zone, oxidized Joint surfaces	Lu≖18.2									-3
	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Granite Por	+ + + + + + + + + + + + + + + + + + + +		Pinkish Si		3	1 5 2			Lu<1									5
·	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		+ + + + + +			3	3	3		Many vertical joints.	Lu<1									7
·	6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t e	+ +			1				Crack surfaces are not oxidated.	Lu<1				£					9
	130	Rhyo11	L		Grey	3	5	2			√1	10			\$86mm					130
	. 5 	: Gp	+		sh grey	i.	1	2		llard and sound substick core	Luc									2
	3 4 3 Harrien		+ <u>+</u>		Pinkish	2	2				Lu<1	-								3
	9 2 3	Rhyolite			Grey	1 5 2	1 5	1 2			Lu<1									5
	7	Porphyry	+ + + +		grey	1	1 4	1 2 3		Fractured zone	Du=0									7
963.87	9 111	Grenite P	+ + + +		Pinkish	2	1	1 5 2		no oxidation, weathering	Luwo									9
-, -, -,				10		1	1			+ driller's note 4 1. 2(substick), 3 (piece), 4 (frequent), 5 (grain)				E		) [	C	a   (	)	
					1 - core la: RQD	20 1	l (frasi	therd	-61ec legowy	aft)									ELOPMENT	CO., LTD.

				:	Gl	ΞΟ	١_(	ЭG	ilC	LOG OF DRILL	HC	) <u>L</u>	E			Pa	a <u>g</u> e	3	·	
01	LUR	PROJ.	ЕСТ							LIOH	E No	•	SK	-211			[ 5	HEE	8 of	8)
LOCATIO	ON .	DAM								PTH OF HOLE 150.00		-		COMMENCE	_		<u>-11</u> -			
ELEVAT		110								RECTION OF HOLE 90°				COMPLETER	_		-04-		<del></del>	~ <u>-</u>
COORDI	NATE						×			RE RECOVERY				DRILLED I LOGGED B'	_		basa Vard			····
			15884							RVATION OF CORE	Γ		ESTI	<del></del> _						
SLEVATION	ОЕРТН	ROCK NAME	ပ ပ	CORE	g	2	SS	XC Sk Sk	¥5.4	DESCRIPTION	LUGEON	Ртвх	U	DEPTH	BIT TYPE	CASING	CEMENTATION	ORILL WATER RETURN	G.W.L	DEPTH
E.E.	8	ROCY		SEC C	COLOR	WEATHER	HARD	SPAC	SVA!	DESCRIPTION	3	<u> </u>	۵.	RESULT	118	S	CEME	ORIC RE	(Opt.H)	(2)
963.87	140m			0 → 100; 1211/11]	<b>8</b>	-					-	Kgf	/cai					%		140m
			-1-					1												
	1 4		-1-				2	2			Luc:									
	2				H						_									2
	, ed feet				H						8									
	3 4	-	T		A	ì		1			Luci									3
	4 -	- \$^ \$						,			-									4
	i dine	Parphyry	-1-		grey	-	1	2							Ę					
	بو داردید		+		Pinkish	5				Generally hard and sound, frequent feather Joints.	ř. LAJ	101			ф88mm					5
	G	Granite	+		P. L.		,				_									6
	nijin.	Ű	+		ď	2		:			-									
	7 7		+				8	1			Lu<1					<u> </u>				7
	8		+				Š	:			_									8
	.41		+					3		·					]					
	9		+					ı			Lu#0									9
953.87	150		- <del> -</del>							End of the Borehole	<u> </u>					_				- - - 150
·	, i	,								Mid of the Borenore										
	1 4									per la companya di salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah s										
	2																			- 2
	2																			
	3 7																			ر 13
		·												<u> </u>						
	<b>4</b>																			 
	9													<u> </u>						5
	9 17 17							Ì												بنردان
	6													[ ]						6
	7									,										7
	41,111				<b> </b>	1			1					[		1				<u>.</u> د
	8																			8
	9 7		1											!						9
										·										ا مودند
<u>. 943 . 87</u>	160 -	<u>L.</u>	L		7	4	+	.	l felts	s driller's note 4 1, 2 (pubatick), 3 (pieço), 4 (fragment), 5 (grein)		<b>.</b>	l	i <u></u>	an L	) )		)   (4	) D	<u>F. ) 60</u>
					Ч	l m			) - 6 is					-					FLOPMENT	co un

--ROD

01	LUR .	PROJI	ECT		 		:			· 	HOLE				E-213			<u>( S</u>	HEET	lof	3)
LOCATIO	0N	DAM	SITE	RIGHT	BANI	()				PTH OF HOLE 50.					COMMEXCE	_		-05-			***********
ELEVAT.	10N	106	9.72	<u> </u>			Q	1		RECTION OF HOLE 45°					COMPLETE	_	91		03	···	
COORDII	NATE	,		9.04			·								DRILLED I	_					
	-	<u>Y:5</u>	15843	.87			·			ILLING MACHINE					LOGGED B	Y 1	1.1	~			
ELEVATION	оєртн	ROCK NAME	LOG	CORE RECOVERY	COLOR	WEATHER-	HARD. NESS		ROCK EVALUATION SE	DESCRIPTION	:	LUGEON	Pmax	STI O.	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	6.W.L. (Upt.H)	ОЕРТН
	Om			0 → 100%									Kgf	/cml					%		Om
069.72	3 3		+ • + • + • + •			3 4	3	1		Mainty 1-5cm grave cores, brown weather remarkable.  Many tight hair or stick core.											2
	5 6 7		+ • + • + • + • + • +			3	2	2		stick core, Remarkable brn.wer along open crucks, generally cracks to vertical. 6.50-7.0m remark/tleal crack with the coloured hematite.	incline ble ver black				-						5 6 7
	9	ě.	+ + + + + + + + + + + + + + + + + + + +		y White	3	2	3		· .		Lum14	10.6								9
	1 to the second	Granite	+ + +		Milky	2 1 3	2	2 5		Many brown cracks Generally good con cracks brown, 10.95-11.45 somewhat cracky Ca	⊶es, but	Lu=14	10.8								المربوبات مستكوبوبال
	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		+ + + •			2	2	1		Good cores, but encracks dip less th 45des some tight hair costick cores.	nan	00	10.9							Rg gar	3 3
	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		+ • + • + •							Generally good con incline to vertice cracks remarkable all cer to vertical, all co brown to black, 16.0-16.50,18.00-	al acks cracks	Lu=1.2	11.1								4 5 6
	6 - 10 april		T • + • + • + • +			2	2	2		somewhat cracky, (17.00-18.00m veri crack, Other crack steeper than 45deg	C=3 tieni ks dip	Lu=12	11.2					***************************************			7
1049.72	9 -		- + - +					3				Lu=8,4	11.3								9
				日成		1	1			<ul> <li>driller's note 4</li> <li>2 (substick), 3 (piece), 4 (frequent), 1</li> </ul>	5 (grain)								<b>*</b>   <b>6</b>		
				~~ ^L	1 -cora lo	88			0 -6 is decom	ponsal					E	LECTI	RIC P	OWE	S DEV	ELOPMENT	CO., LTD.

01	J.R	PROJI	ECT							HOLE	No.	'	SKI	2-213	·		15	HEE	<u> 2 of</u>	3 )
LOCATIO				RIGHT	BAN	<u>K)</u>				PTH OF HOLE 50.00				COMMENCE	) _		-05			
ELEVATI	ON .	1069	9.72							RECTION OF HOLE 45°				COMPLETE				<u>03</u>		
COORDIN	NATE	X:4	51185	9.04						RE RECOVERY				ORILLED I	_					
	-	Y:5	15843	. 87	·					ILLING MACHINE	T			OGGED BY	ľ _	1.	Var			
ELEVATION	DEPTH	ROCK NAME	L 0 G	CORE RECOVERY	COLOR	WEATHER-	NESS NESS	ECK ECK ECK ECK ECK ECK ECK ECK ECK ECK	SE SE	RVATION OF CORE  DESCRIPTION	LUGEON	Равх	est o	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L	ОЕРТН
33	٥.	ROC	,	82	8	WEA	HAR	CRA SP	FVA		3			KESULI	83		8		(Opt.H)	
1049.72	20m			0 → 100 <sub>%</sub>		-					<u> </u>	Kgf	/cal			-	-	%	7	20m
	1 sekuarahan		+ + + +			3	2	2		Generally good cores, but cracks brown. 20.35-21.15 Hortzontal cracks. Other cracks steeper than 45deg	Lu=0.9	11.5								- }
	2 7		+ + +				3	3			#2.1	1.6							İ	3
	. Ka		+ + +							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 C=3	ากา	7								1
	P Durch to the		+ • +					2			Lumo.1	11.8								5
	7	ì	+ + + + + + + + + + + + + + + + + + + +			2	2	\$	į		Lu=7.2	11.8								7
	8 11	e Porphyry	+ + +		cy White			3			3   L									8
	9	Granite	+ • + •		M11ky						Lu=8.	11.8								30
	1 1		+ + + + +					э		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								سر المعروب الم
	3 3		+ + +			3	2	2			Lu=24	11.8								2 3
	A B &		+ + + + + + + + + + + + + + + + + + + +			3	2	2		Somewhat cracky, hair cracks remarkable, vertical to steeper than 45deg, slickenside at 35m.	Lu=25	11.8								ع در المسلمية المسلمية المسلمية المسلمية المسلمية المسلمية المسلمية المسلمية المسلمية المسلمية المسلمية المسلم
	6 Tanahan 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	95	+ +		rey		3	2		Generally good, but cracks brown. 39.80-40.00 C=3-4 hair cracks remarkable	Lu=3.5	11.8								7 7 8
	8 1 military	Disbase	1 1		Dark Gr	3	2	3			Lu=8.9	11.8								
1029,72	40 -				<u> </u>	1		l thard	) - 5 (s	> driller's note a ): Z (aubstick): 3 (pieca): 4 (fragment): 6 (grain) oft) cosent	1	L	L					C DEV	D ELOPMENT	CO LTD

					GE	ΞO	L(	ЭG	ilC	LOG OF DRILL						ige C			
	LUR_	PROJI			r nii			<u> </u>	nı:				KE-213 COMMENCE			15		3 of	1 1
LOCATIO		_		100	I BAN	1)		]	า เด	PTH OF HOLE 50.00 RECTION OF HOLE 45		<u>iii</u>	COMPLETE	_		-05- -07-			
ELEVATI		106		9,04				!		ORE RECOVERY			DRILLED	-			VU	_,	
COORDI	NAIL			3,87						ALLING MACHINE			LOGGED B	_			al		
	-		10030		T					RVATION OF CORE			TING	<u> </u>					<u> </u>
ELEVATION	DEPTH	ROCK NAME	១០។	CORE	COLOR	WEATHER-	HARD- NESS	CRACK	ROCK EVALUATION	DESCRIPTION	LUGEON	Pmax	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L (Dpt.H)	urane.
	40m			0 → 100	_							Kgf/cd					%		1
1029.72	1 7	:								Good cores, but cracks brown. Cracks generally 45deg dip to steeper. Contacts between G.P and Diabase are generally tight, but at 41m.44m and 50m, opened slicken with remarkable oxidation. 43.80-44.00 C=3-4 45.80 C=3-4	Lu=17	11.8							دىنىلىسىلىسىلىرى د
·	3 4	Disbase			Grey			1			Lu=1.1	11.8							ىرىمىرىلىرىدىلىرىدىلىكى چە
	5	Porphyry &			White to	s	2	\$			Lu≠2.0	11.8						,	الماسينيسيليس 19
	6	Granite			Mi 1ky			2			Lu≃o.6	11.8							والمراجعة والمراجعة والمراجعة
	8 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -										Lu=0.3	11.8							يب فيلسوناليونفلين
1019.72	e in 12									_	1								È,
	3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7									End of the Borehole									المستوا والمستواري والمستوار والمستواري والمستواري والمستواري والمستواري والمستواري والمستواري والمستواري والمستواري والم
	7 8 9	. 14																	وتوجيا ويروع فالمتر والموريدين والمروز والروار

0	LUR	<u>PROJ</u>								HOLA				-215				HEE		4)
LOCATI									DI	PTH OF HOLE 80.00	···	<u>m</u>	. (	COMMENCE			-()7-			
ELEVAT										RECTION OF HOLE 90°				COMPLETEI	-					
COORDI	NATE J	X : 4	<u>51185</u>	6.14				_		RE RECOVERY				DRILLED I					<u>a</u>	
		Y:5	15844	.34					DF	ILLING MACHINE			-	LOGGED B	}' _	1.1	Vard	la)		
25		핖		₹				(		RVATION OF CORE	<u> </u>	1	EST	NG	ᇤ	to	NO.	YER Y		
ELEVATION	DEPTH	ROCK NAME	907	CORE RECOVERY	COLOR	WEATHER- ING	HARD- NESS	CRACK	ROCK EVALUATIO	DESCRIPTION	LUGEON	Pmax	L	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WATER RETURN	G.W.L (Opt.H)	ОЕРТН
1069.66	Om			0 → 100 <sub>9</sub>	<u> </u>	_		ļ				Kgf	/emi					%		Om
(nos.co	1									0.0-1.5 Open excavation										
	1 1																			1
	57 17 17 17 17 17 17 17 17 17 17 17 17 17		+:			3	3	3		GP.Cores wethered, and all cracks brown. Many tight hair cracks in stick cores.										2
	3		+				:			•	1.1								ļ	3
	4 5		+ + + + + + + + + + + + + + + + + + + +			3	3	2 5 3		Generally good, but brown cracks remarkable and many hair cracks 4.40-4.50 C=4 4.86-4.95 C=4 5.50-5.60 C=4										5
	1		+																	6
	7		+							Good stick cores recovered, but weathering along cracks remarkable. Cracks generally-dip to vertical or steeper than 45deg. Many tight hair cracks. Stick cores between	Ľu'≖S	6								7
	8-1	!	-1-							13m to 14m somewhat sheared. Cracks	ம									E 8
	8 1.000 mil	ž.	+		white			2		eat 8m,11.5-12m and 13m C=3-4	Lu'=56.2	80								9
	10-	Porphyry	-		11	3	3	١			-									10
		Granite Por	+ • +		owish dirty			3			Lu=37,83									المنازيين المسايل
	2 -	ç	+		e i lo						-									-2
	3		4		Ye						Lu=36									3
	4 1					-	-	-		Brown weathered cracks	$\vdash$									1
	1		+			3	3	3	[ :	remarkable major cracks dip to vert.	43								<u> </u>	
	2		+			3	3	2		All cracks brown. Cracks dip to vertical	Tu=4	ĭ				İ			1	<u>-</u> 5
	6	. :	+			Ľ		Ľ.		hair cracks remarkable.						Į				Ē 6
	1		+							Good stick cores recovered, but tight hair	28									<u> </u>
	7	-	+			4				cracks remarkable. Generally, cracks dip to less than 45deg.Cracks	=31.									7
	1		-			3				weathered to brown color.	Lu									<u> </u>
	8 -					5	2	5.												8
	9 -		+			. 2		2			6.6		<b> </b>							- 9
•	, 1		+							•	Lu=								ļ	, ,
1049,66	20		+	HIM	<u> </u>	Ļ	Ļ		<u> </u>	A di Maria maka			<u></u>		<u></u>		<u> </u>		]	E 20
					1	•	1		l tatiok 7 - 6 (se	> driller's note 4 ). 2 laubatick), 3 (place). 4 (freqment). 5 (grain) (ft)				-				0		
				L	RQD	;B			danaza					El	LECTR	ac Pi	UWER	UEV	ELOPMENT	CO., LTD.

<u>Page</u>

0	LUR	PROJ	ECT_							HOLE		<u></u>	SK-	215			1.5	HEE	f 2 of	4)
LOCATIO	ON .	DAM	SITE	(RIGHT	BANK	)			DE	PTH OF HOLE 80.00		M	. (	COMMEXCE	}	91	-07-	05		
ELEVAT		106	9.66	· · · · · · · · · · · · · · · · · · ·			m	,	DI	RECTION OF HOLE 90°			. (	COMPLETED	) _	91-	12-	09		
				6.14			,		CO	RE RECOVERY	·	%	l	ORILLED E	3Y	Gui	<u>. Ba</u>	sara	1	
				34					DF	ILLING MACHINE				OGGED BY	<i>'</i> _	1.1	/ard	al		·
<u> </u>			1						BSE	RVATION OF CORE		T	ESTI	NG	ш		ě	8		
ELEVATION	DEPTH	ROCK NAME	0	CORE	COLCR	WEATHER-	HARD- NESS	CRACK SPACING	ROCK EVALUATION	DESCRIPTION	LUGEON	Ртах	a	DEPTH RESULT	BIT TYPE	CASING	CEMENTATION	DRILL WAT	G.W.L (Opt.H)	DEPTH
	20m			0 → 100%			_					Kgf	/cm					%		20m
049,66	1 -		+ + + + + + + + + + + + + + + + + + + +		te					Good cores recovered. Core conditions same with depth between 16m to 20m.	Lu<1									1
	3		+ + + + + + + + + + + + + + + + + + + +		sh dirty white	3	2	1			Lu<1									3
	5 - 6 -		+ + + + + + + + + + + + + + + + + + + +		Yellowish	2		2		Cracky zone at 25m, C=3.	Lu=4.8									5
	7 -		+ + + + + + + + + + + + + + + + + + + +			න්ද න දි 32	3^ 3~ 1~2 9~3	3~ 4 2~3		3 parailel oblique joints Joint surfaces oxidized.	Lu≈4.8									7 8
	9 -	Porphyry	+ + + + + + + + + + + + + + + + + + + +				1	2 3			Lu=3.55	10								9
	1 -2 -	Grenite	+ + + + + + + + + + + + + + + + + + + +			3	2	1			Lu=1.3	1								2
	3 -		+   ·   +   ·   ·					2		,	£≃n7									3 4
	5 6		+ + + + + + + + + + + + + + + + + + + +			3	1	2 3												ريادياءالمسلمديدالمي
	7 -		+ + + + + + + + + + + + + + + + + + + +				2	1 2 1 3			Lu=1.3			i						7 8 منهمليينيان ماليون المنهمليين
1029.66	9 - 40		+ + + + + + + + + + + + + + + + + + + +			3~1 -2 1~2 1	2-22-	1 3~4 2 2∂3 1		Fractured zone	Lu#2.16									9
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