GEOLOGIC LOG OF DRILL HOLE PROJECT HOLE No. S.K. = 1 (SMEET 1)

C	OK	TAS		PRO	JEC	T				<u>— 1</u> (SHEET			
LOCATION			DAM			-		PTH OF HOLE 100.0 PTH OF OVERBURDEN 23.5	O m	COMMENCED_	29-	g	<u>-1987</u> -1987
COORDIN					!!	<u>!</u>		NGTH OF ROCK DRILLING 77.5			<u></u>	osi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ANGLE F	ROM	HOLIZO	NTAL	9	0	•	TO	TAL LENGTH OF CORE 85,1	7 m	LOGGED BY		CA	
BEARING	OF	ANGLE	HOLE		_	-	CO	RE RECOVERY 85.1	7 %				
H		E.	¥∡b છ		~ 1			BSERVATION OF CORE	WAT	ER TABLE	V-	×	ĕ
DEPTH ROCK NAME	007	CORE	CEMENTA TION KIND OF BIT CASING	COLOR	E S	NESS	CUTTING	DESCRIPTION	ŀ	ER PRESSURE TEST	1	DEPTH	B.EVATION
	ļ	° 100,		8	¥.	ì	ਰ		LEAK	AGE OF DRILLING WA	┰┉╌┼		
m0 E			· · T							0.80 W	m	Om	510
	0									¥¥		_	
14000					l -			Alluvium.		:	0.00	_1	I
2.3								Peridobite and limestone			0.00	-2	ŧ
	0							anauala				-	
3-								gravels.		•	0.00	-3	
								No fine naterial in core				-	.
4-1		M					-	box.			0.00	-4	
] ,]	0]]	Ì			Dinidat de Operial la mainle			0.00	Б.	•
*4					1			Peridotite gravel is mainly	1				
6-3					i			composed.			0.00	8	Į.
	0							Distribution of limeston	ļ \$		0.00		
7 -								,				7	1
1		/////////////////////////////////////						gravels					
"	0							(4~bm				-	·
] ,						,		{4~6 m 6~7.5 m			0.30	9	
H	}			3				21.0 m					
$\frac{1}{2}$			ww 06¢	9797	,				<u> </u>			-0	
1 1	0	MM	8	l I				Distribution of red-sha	le .	*.			
				Dark				gravel, 15,0m.	1]
2 3	1			7		\	}	0			0.30	-2	
	0				i						<i>0</i> ,30		
3-3						'	ļ					3	
1				} }				·		*	0.50		
4-11					İ							-4 	
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8-1												9	
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201	<u></u>		L _ !		<u></u> _	نـــا	<u> </u>	▶ driller's note ◀	L			0	410
				-			1 (4		Water	table drilling	0.30		
		4	~ cora loss		1		(a/d) ~ (table	0.50		•
-		E-12-2	- ROD		1	(rest)	~ D(GEC	(becomes	99101	A distant	1		

	Digrama	·G	OK	JAS	1	PR()JE(CT		HOLE N		2 of		
٠.,	LOCA	100	7		DAM 510			.		PTH OF HOLE 100.0 PTH OF OVERBURDEN 23.5				
	COOL	-			<u> </u>	. 		<u>n</u> .	LE	NGTH OF ROCK DRILLING 77.5	Om DRILLED BY)SI	
			200	HOLIZO	NTAL	ç	Q	•		TAL LENGTH OF CORE 85.1	7 m LOGGED BY			
_	BEA	RING	OF	ANGLE	HOLE				co	RE RECOVERY 85.1	7 %			
T	<u>.</u>	AME	IJ	S. E.	¥≅o o		07		0	BSERVATION OF CORE	WATER TABLE	V	r	₹
-	ОЕРТИ	NOCK NAME	0	CORE	ASAN PROPERTY OF THE PROPERTY	COLOR	WEATHER ING	NESS	CORE	DESCRIPTION	WATER PRESSURE TEST		оемн	E.EVATION
-	30-	ě		0 ⇒ 100 _a		0	WE	2	ីថ		LEAKAGE OF DRILLING WA		0m	
+	20m			ÄMIIII				<u> </u>			200001	m		490 🖫
	7	m	O	$\ \ \mathcal{W} \ $	(M139)					ditto.		0.30	-	
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	il.	A	0	1	+	Dark				•	1	0.00	-	
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١	1111									Fractured peridoti			-	
ļ	5			MK						Serpentinization an	d Lu = (11)		-5	
	1	:			l.					slickenside are see	Po max = 8.0 13/2	0.00	_	
l	8 1		_	MTN)						in some fractures.		0.00	-6	
l	7-	. 7	• •							in some fractives.	Lu=0		-7	
l	1	ļ						}			Po max. = 8.0		-	
	8-								3				-8	
Ì	4		Λ	Â							Lu=0		_	
	9-1									•	Po max. = 8.0		9	
1	30.			1							70711-00.	0.00	-0	
1	1		Λ	KA IIII	8	>	2	2			Lu=0	0.00		
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١	را ا	46		Ŋ	\$\$	Ì.,	۲				Po mox. = 10.0		- -2	
l	2-1	170	À	И		Dark	Į.							
	8. لتسلسطي	Z.	,	KI III		~				Calsite veins at 33m.	Lu=1.6		-3	
l	1	Pe		[]						340 An opening, 1~5 mm wid	Po max. = 10.0		-	
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l	1	-	ľ	KIIII.							Po max = 10.0			
Ì	6-1	- 1							३			0.00	6	
	المساسية السالية واستاسية السالية		Λ								Lu=0	10,00		
	7-1			MIIII						37.5m: Serpentine Im			<u>-</u> 7	
1			-1111				•		_	38.0 wide along 45 dip crack	1 :		- - - - - - - - - - - - - - - - - - -	
1	81111	::]	Λ							who exists to all the	1	. '	Ē .	
Ì	9.4								2		Lu=0		-9	
	4.										Po max. = 10.0		<u> </u>	470
۲	<u>- LY. J</u>						1	1	* 	> driller's note ◀			<u>. ~ .</u>	4 <u>-0.19</u>
:				N B			. .			tick), 2(substick), 3(piece), 4(frequent), 5 grain	Water table after drilling	0.30		
				4	— core toss — ROD		1		hard) 5 (de	composed)	Water table	0.50	•	

				GE		L. (/Ci				:
	GOKTAS PROJECT HOLE NO. SK - 1 (SHEET 3 or 5) ATION DAM DEPTH OF HOLE 100.00 m COMMENCED 29 - 8 - 1987 ATION 510 m DEPTH OF OVERBURDEN 23.50 m COMPLETED 29 - 9 - 1987 RONATE — LENGTH OF ROCK DRILLING 77.50 m DRILLED BY DS.1 LE FROM HOUZONTAL 90 TOTAL LENGTH OF CORE 85.17 m DRILLED BY DS.1 CORE RECOVERY 85.17 m DOGGED BY J.C.A CORE RECOVERY 85.17 m DESCRIPTION WATER TABLE NAME TO BE SUBJECTED 10 m DESCRIPTION WATER PRESSURE TEST LETARAGE OF DRILLING WATER 10.00 A 25 45° dip cracks main. A 25 45° dip cracks main. A 26 Po max = 10.0 Po max = 10.0 Lu = 0 Po max = 10.0										
LOCATIO	DAM DEPTH OF HOLE 10,0,0,0 m COMMERCED 29 - 9 - 1987										
ELEVAT						n					
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										<u>VIVI</u>	
							-				77
7 X	0	E KERY	A S S		8	5		BOCKENTION OF CORL	WATER TABLE -V	√ — _₹	NO
DEPTH OK NAM	DAM DEPTH OF HOLE 100.0.5.10 MATE — DEPTH OF HOLE DEPTH OF HOLE 100.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.				Naj l						
		N 510 m OPERFURDED 23.50 m COMPLETED 29 - 9 - 191 INTELLIBRATE OF CORE DRILLING 77.50 m DRILLED BY DS.1 TOTAL LENGTH OF CORE RECOVERY 85.17 m LIGGED BY JCA OF ANGLE HOLE — ORSERVATION OF CORE OBSERVATION OF CORE VARIET PRESIDENT LEST LUCE O Po most, = 10.0 A20 Luce O Po most, = 10.0 Po most, = 10.0 A31 A32 Luce O Po most, = 10.0 A33 A32 Luce O Po most, = 10.0 A33 A33 A34 Luce O Po most, = 10.0 A45 A45 A45 A46 A47 A47 A47 A47 A47 A47 A47		L							
4 om	ON DAM OPPTH OF HOLE 100,000 m COMMENCED 29 - 8 - 191 ON 510 m DEPTH OF WORRBURDEN 23,50 m COMMENCED 29 - 9 - 191 FROM HOUZONTAL 90 TOTAL ENGTH OF CORE DEVILLED BY DRILLED BY DIST. FROM HOUZONTAL 90 TOTAL ENGTH OF CORE BS, 17 m LOGOED BY JICA CORE RECOVERY 85,17 m LO			1 470 ₹							
1 1		KKI								1 1	
1-3	Λ	KWIII					2			F1	
1 1] [Po mox. = 10.0	1 [
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							3		1 '	\ F	1
3-		KKI					 	43.0	1	E ₃	
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4-		KAN I								[4	
	١.								Lu=0	F.	
57	^	KXX							1	l E°	1
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°]		KKK									
7.3	1			1			2		Lu = 0	E-7	
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9-3								'	2u=0	E 9	
1 4	2	MXXIII	g.	ş					Po mox. = 10.0		
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20 Juntantunian		M		ŀ					To max. = 10.0		
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4	ш.	Ŕ							<u> </u>		
		KA III					4		/ Lu=0		
6-7	**	ии					 	55.0 70° and 90° dip cracks	PA mox = 10.0		
1	1	KKIIII			}	1		,	10 ///	[.	}
6-3	1						1	The Com : Samouting Im			
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3 4 10 10 10 10 10 10 10 10 10 10 10 10 10	^						,	wide.	Po max = 10.0		
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87				1					. 7.] [°	1 1
9-11	1	HHH					Ì		Lu=0	E	1 1
"	1/								Po may. = 10.0		
6.1				L.						1 E 0	450
		N	1		1	1	1	▶ driffer's nots ﴿			
			1		-					0.30	
		1			(· ·	Water table before drilling	0.50	
			nub			gr sart)	2 ton	Annual Second			

	ATIOI ATIO RDIN LE F	N ON IATE ROM	HOLIZO	DAM 510 INTAL	Ç	90	m	DE DE LE TO	PTH OF HOLE 100.0	O m COMMENCED O m COMPLETED O m DRILLED BY T m LOGGED BY	29. 9 DS	-1987 -1987 I
ОЕРТН	ROCK NAME	501	CORE	CEMENTA- TION KIND OF BIT CASING	80700	WEATHER	HARD. NESS		BSERVATION OF CORE DESCRIPTION	WATER TABLE — N WATER PRESSURE TEST . LEAKAGE OF DRILLING WA	TER E	ELEVATION
60m			0 → 100,							LUGEON	m om	450 €
2 7 7 2 2 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Peridotite			\$5.6 mm	Mark arox		2	3 2 4 2 3 1 1 2	63.5m: Serpentine 0.1~1mm wide along 64.5 40° dip crack. 67.2 67.4 67.2 67.4 67.5 40° dip crack. 68.5 wide along 65° dip crack. 70.1 70.1 70.3 70.1 70.2 70.3 70.1 70.3 70.1 70.3 70.4 70.5	Lu=0 Pomox.=10.0 Refort Lu=0 Pomox.=10.0 Lu=0 Pomox.=10.0 Lu=0 Pomox.=10.0 Lu=0 Pomox.=10.0 Lu=0 Pomox.=10.0	ترييط ويتاريون	4.5Q ·
80 00 Ֆուդուդուդուդուդուդու						1	•	3 2	77.5 77.5~78.2m: 80° dip 78.2 crack.	Lu= 0 Po max. = 10.0 Po max. = 10.0	2000	430
				— cora loss — RQD	. ·	[(hard) ~	tick), 2(substick), 3(place), 4(fragment), 5 grain	Water table after drilling	0.30	ų.

LOCATIO ELEVATIO COORDII ANGLE F	ON ON NATE ROM	HOLIZO	DAM 510 — INTAL HOLE	Ç	OJEC	ņ	DE DE LEI TO	PTH OF HOLE 100.00 PTH OF OVERBURDEN 23.50 NGTH OF ROCK DRILLING 77.50		9-8	-1987
DEPTH ROCK NAME	507	CORE RECOVERY	CEMENTA - TION KIND OF BIT CASING	CCLOR	WEATHER	HARO. NESS		DESCRIPTION DESCRIPTION	WATER TABLE	DEPTH	ELEVATION
S O 1 2 3 4 2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\ \ \ \		20 mm 954		13. D 2		2	89.0 m: 45° dip crack. no serpentine. 89.4 m: Partly serpentinization less than Imm wide. R.Q.D (Av.) = 67% End of drill hole Indicate the series of t	Lu=0 Po max. = 10.0 m om	± 430 [™]	
			- core foss - ROD		1		#rd) ~ !	P. d Fab.	ater table after drilling - 0. ater table - 0. before drilling	30 50	

			OKI		PRO	JEC	<u>er</u>		HOLE N		1 of 4	_1987
LOC.			5	DAM 10.8	34	r	n	DE	PTH OF OVERBURDEN 17.00	m COMPLETED	17 - 9	-1987
COO	RDIN	ATE	<u>- 7.4</u>	Jiá. 050	./ <u>}</u> 9(- 1	_		NGTH OF ROCK DRILLING 53.00) m DRILLED BY _	DSI JICA	
			HOLIZO ANGLE	HOLE	3(ر			TAL LENGTH OF CORE 58.75 PRE RECOVERY 83.9	m LOGGED BY	<u> </u>	
				<u> </u>	<u> </u>			Ç	eservation of core	11/4 TER TARIE/\/		Z
н1 430	OCK NAME	507	CORE RECOVERY	CASING	COLOR	THER	ESS	CORE	DESCRIPTION	WATER TABLE/VI	ОЕРТН	ELEVATION
c	Se l			8 329	8	WEA	H4.	85	DESCRIPTION	LEAKAGE OF DRILLING WA	TER	
Огп			0 → 100 _%	<u> </u>						LUGEON	m Com	5/0.834
1				41	1		7			·		
1-1			W						Alluvium.	-7:30M-		
2-	. :	$\mathcal{L}_{\mathcal{L}}$							They include peridoti	t e	2	
	.								and some limeston			
3-				+	1				gravels.		<u>-3</u>	
4-1		O	m						No tine material in		E-4	
1							:		core box.		1.50 1.50	
و و بابدیابیمابسل	:]								Distribution of lime		[_ 5	
6-3		O				Ì			stone gravels,		6	
1 📑	:					•			7.5m			
7-1				Ф90 тт		*		}	14.0 m		1.50	
8,1	200	O		26	3				16~17m.		1.30E 8	
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السلسياسياس								3		. }		
8	tite	V		+	gray		·	J	18.0 Fractured, but strong peridotite		<u>/30</u> 8 /30 €	
I	do			in in	20	2	2		periactite	' Lu=(22)	9	
9-1	Per			986	727	-		2		Po max = 6.0 kg/ch	بليدينا	
20	\Box	Y:	MAN					Ĺ <u>.</u>	> driller's note 4	√cii]	ξo	490.834
				· · · · · · ·				1 145	eck). 2(substick). 3(piece). 4(fragment). 6 grain		0.30	
			<0.15 € 2 - ∮	- core loss	: .	1.1		aro) ~		Water table before drilling	0.50	
			L.,	- ROD		1	(fresh)	~ 5 (de	composed)			

Detail of overlay Deta			- G0	KI	AS_		PRO)JE(CT:				SK-2 (SHEET	2 05	4	L
COORDINATE 2 172533 L ANGLE FROM HOLLDATIAL 90 - TOTAL LENGTH OF FORCE DRULING 53.00 m DRILLED BY JICA BEARING OF ANGLE HOLE - CORE RECOVERY 83.9 % OBSENVATION OF CORE OBSENVATION OF CORE WATER TRANS. WATER TRANS. WATER TRANS. OBJECT 10	LOCA	TION								DE	*******		m COMMENCED	<u>-2</u>	<u>9</u>	<u>-1987</u>
ANOLE FROM HOLIZONTAL BEANNING OF ANGLE HOLE —— CORE RECOVER CORE RECOVER CORE CORE RECOVER CORE ELEV	OITA							n							-196/	
### PARTING OF ANGLE HOLE	_					, Q.		~					-			
						-			<u>.</u>				-		.U.C	
2	BEAF	RING	OF AN	GLE I	HOLE							<u> </u>	. 70			
2 2 3 6 1 1 1 1 1 1 1 1 1	\ \	W.		. <u>E</u>	≨≉ర్రీ	١		<u> </u>		0	BSERVATION OF CORE		WATER TABLE	√ ¹		NOR
2 2 3 6 1 1 1 1 1 1 1 1 1	EP 1	ž X		8	APP OF	Sign	ğ	見る	5 SS	A E	DESCRIPTION		WATER PRESSURE TEST		130	1EVA
2 20.5m: Calsite vein 2mm 21.0 wide along 25°dip crack. 21.0 ~ 21.3 m: Serpentine 2	"	§	_	씵	ე ჯա	١	8	3	Ť	98				ATER		
210 wide along 25 dip crack. P. max. = 6.0 210 - 21,3 m: Serpentine 2	200		0=	100%									LUGEON	m	Om	490.83/
2	1 1	ļ	W	X		1	1			2	20.5m: Calsite vein	n 2mm	111 = (14)			
2 10 21,0 21,3 3 5 10 10 10 10 10 10 10	1.3	\				1	i			1	21.0 wide along 25° dip	crack.			E 1	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$)]		<u>~</u> [X]	X		- }	}		}	7	21.3		(a max. = 0.0 Kg/em)			
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	2-					1	}		}		1			1.30	2	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$				ИIII)			-	Imm wide along se	veral	Lu=(34)		-	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	3		v III	ИШ)	Ì	}) 	<u> </u>	zzo cracks.]	the state of the s	1	-3	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	=	}		ИШ			ļ	·	l È	3	219 - Calcite Vei	n (mm	70 Max. = 0.0		E	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	4-3			Ш			Į				124.0	"·"-			-4	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	1 4		W.	W	ļ		j		ļ				1.,=(44)			
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	5-3	\ \	V	W						2	23.0m: Calsite vei	in Int	Luca		-5 E	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	4		· W	W							wide.	ļ	Political & 8.0		Ē- E	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	6-3	1			.	- {			İ	3	157.0	·. ,		1	-8	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	=	İ	H								1	17 (1917	Lu= (45)	}	E E	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	7-		∨ (X)			1		}			wide.				E-7	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	1 =	}		иШ		1					27.6m: 45' dip cros	ck.	Jomax. = 0	1.70	Ē	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	8-3	1	H			l					į				E 8	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	1 4	v	W	WIII		Ì					7,500,7	İ	Lu= (22)	1	Ē,	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	9-	777	$\vee \mathbb{W}$	XXII			2	-	1				P = 80		F '	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$] =	do	il.	XXII	8		COL	.	3			Ì	18 max 0.0		E	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$	30₫	Ç 61	111	Ш	288		X	2	1]	E	
$ \begin{array}{c cccc} & & & & & & & & & & & & & & & & & & &$		3		WIII	1		2			1		1	Lu ≈ 23	-	Ē,	
2 Lu = 0 Po max. = 10.0 Lu = 0 Po may. = 10.0 Lu = 0 Po may. = 10.0 2 Vide along 45 dip crack. 38.8 38.8~39.0m: Fragment Lu = 0 Po may. = 10.0 2 Vide along 45 dip crack. 38.8 38.8~39.0m: Fragment Lu = 0 Po may. = 10.0 A 30.0 2 Vide along 45 dip crack. 38.8 38.8~39.0m: Fragment Lu = 0 Po may. = 10.0 A 30.0 A 30.0 A 31.0 B 31.0 Core, no Serpentine. Value atter drilling atter drilli	[14]	Į	\vee (l) $\!$	M								1	Poway = 10.0		Ē.	(
2 1.30 2 wide along 45 dip crack. 2 wide along 45 dip crack. 2 wide along 45 dip crack. 2 wide along 45 dip crack. 38.8 38.8 ~39.0 m: Fragment 39.0 2 core, no serpentine. 1.30 1.30 1.30 1.30 1.30 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30 2 wide along 45 dip crack. 1.30			111							,					E_2	
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######################################		- [IK			- {			ļ			1	Lu= o		E_3	
Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 2 wide along 45 dip crack. 2 38.8 38.8~39.0 in: Fragment Lu=0 Pomox=10.0 Pomox=10.0 Another shorts Pomox=10.0 Water table after drilling after drilling after drilling perform drilling of the perform drilling of the perform drilling of the perform drilling of the perform drilling of the perform drilling of the perform drilling of the performance of the performance drilling drilling of the performance drilling drilling of the performance drilling drilling drilling of the performance drilling	3-		>₩	W		- {	Í			}			Pomax = 10.0		E	
Lu=0 Pomox = 10.0 Lu=0 Pomox = 10.0 Lu=0 And And And And And And And And And And]		H	W		1	ļ		ĺ	1		<u> </u>			E_4	.
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50	*3		批	W	}	1						}		1.30	E.	
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50			· W	W			j								5 .	
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50	E°	1	~ 批	WW.	1		j						Pomox. = 10.0		<u> </u>] [
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50		-	H.	껢		1	}					1		1	E-6	
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50	"]	}	H		1		}]				}	<u> </u>	
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50]].					1						4		E-7	
3 Core, no Serpentine. Pomox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(fragment), 5 grain Water table after drilling Water table before drilling 0.50	']		 .	Ш		1	ĺ)	ļ	37.5 37.5m: Serpentine]mm	Po max = 10.0		Ē	
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50	8.3				Ì		}			1	1 '.				8	
3 Core, no Serpentine. Po mox. = 10.0 pdriller's note 4 1[stick), 2(substick), 3(piece), 4(frequient), 5 grain Water table after drilling Water table before drilling 0.50			批	KIIII			Ì				DOO DO DO DO ALL ELLAND	nent.	المعادة	1.50	i.	1
3 Core, no Serpentine. To mox. = 10.0 P driller's note 4 1 (stick), 2 (substick), 3 (piece), 4 (fragment), 5 grain Therd) - 5 (soft) Water table Before drilling Water table Before drilling	9.7		\ IH	$\ \ $			{			4.	139.0 139.0	Tenv			9	1 1 1
p driller's note 4 p driller's note 4 Water table after drilling 0.30	1			ИШ			.			Į	core, no serpentine	e.	To mox = 10.0		E-	170.036
1(stick), 2(substick), 3(piece), 4(fragment), 5 grain after drilling 0.50 1(hard) - 5(soft) Water table before drilling	401			иШ					<u> </u>	Ļ				1	F O	410.834
Water table 0.50				ß				1	1	1,,,			ter table fter drilling,	- 0.30		
t de la companya de la companya de la companya de la companya de la companya de la companya de la companya de			KA.	89	- core foss				10			. 122.0	ter table	0.50		
			4_		- RQD			1					•	÷		

ОЕРТИ	CCK NAME	CORE	CEMENTA- TION KIND OF BIT CASING	COLOR	ATHER	HARD. NESS		DESCRIPTION DESCRIPTION	WATER TABLE	рерти	
4 am	8	0 + 100		l°	WE	₹	8		LEAKAGE OF ORILLING WATER	On	470
المداءة	\ \ 						3	40.5 41.5 m and 44.5 m: 45° dip cracks no filling.	Lu=0 Powax =10.0	արությունույի և Հ	
دارسانساسما دارسانساسما	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								LU=0 Powax: 10.0		
ր 2 3 4 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\ \						1 5 2		Lu=1.2 12 12 12 12 12 12 13 14 15 16 16 17 17 18 18 18 18 18 18 18 18	مېدىمايىسامىي ق	
2 مطبعياتينياسيا	\ 							48.7m: 45° dip crack,	Po 100x. > 10.0	րուրուրուրուրուրուրուրուրուրուրուրուրուր	
	Peridotite		486 mm	Dark aray	2	2		no filling. 49.1m : Serpentine less than Immwide along 15°	1.30		
2 مىزانىدانىياسىلى سىلىدىلىيىلىياسىلى	A \			Da				dip crack.	Pomax. = 10.0	1 2 2	
مرسطسطسط معاسطسط	\ \ \ \							52.2m : Serpentine Imm wide along 35°dip crock. 54.0	1 24-2	3 4 5 5	
9 سراسىلىسرئىسلى	\ \						2		Lu=0 Pomax.=10.0 1.30	E	
7 7 10 10 10 10 10 10 10 10 10 10 10 10 10	\ \ \								Lu = 0 Pomax = 10.0	որապարար 8	
دو مىلىسىنىسىلىس سائىسىنىسى	<u>×</u>						1 5 2	585 59.3m: Serpentine Imm bo.b wide along 70°dip crack.	1 Lu=0 Poimox = 10.0	ուրուդուդուր 0 6	450

ANGLE	ON ION INATE FROM	HOLIZO	AS DAM 10.83 452.685 NTAL HOLE	34 18 9(<u>n</u>	DE DE LE TO	PTH OF HOLE 70.00 PTH OF OVERBURDEN 17.00 NGTH OF ROCK DRILLING 53.00 TAL LENGTH OF CORE 58.75 RE RECOVERY 83.9) m DRILLED BY _ m LOGGED BY _	2 - 1 17 - 0	9 9 S I	-1987
DEPTH ROCK NAME	007	CORE RECOVERY	CEMENTA- TION KIND OF BIT CASING	COLOR	WEATHER	HARD. NESS	******	BSERVATION OF CORE DESCRIPTION	WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WA	TER	96PTH	ELEVATION
6 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			uu 98¢	Dark gray		2	2 3 2 3	60.8 60.8 ~ 63.0 m: Serpenting 1 ~ 2 mm wide along many cracks. 63.0 64.0 66.0 66.0 ~ 66.4 m: Serpenting 66.4 1 mm wide along several cracks. R.Q.D (Av.) = 86% End of drill hole	Lu = 0 fo mox = 10.0 Lu = 0 Po max = 10.0 Lu = 0 Po mox = 10.0	ափանակակակականականուն	1 2 3 4 5 6 7 8 9	440.834
			core loss		1		lard) !	tick), 2(substick), 3(piece), 4(frenment), 5 grain	Water table after drilling water table before drilling	0.30 0.50		

LOCATION ELEVATION COORDINATE ANGLE FROM	GOKTAS DAM 607,600 X,452,539 HOLIZONTAL ANGLE HOLE	DEPTH OF HOLE m DEPTH OF OVERBURDEN THE LENGTH OF ROCK DRILLIN 90 TOTAL LENGTH OF CORE	HOLE No. SK - 3 (SHEET 1 OF 5) 100.00 m COMMENCED 25 - 8 -1988 0 m COMPLETED 11 - 9 -1988 100.00 m DRILLED BY DS1 100.00 m LOGGED BY JICA 100.0 %
DEPTH ROCK NAME 1 0 G	CORE RECOVERY CEMENTA - TION KIND OF BIT CASING	OBSERVATION OF CORE WEATHER THE COLUMN THREE TH	WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WATER
Annhanhanhanhanhanhanhanhanhanhanhanhanha	18 mm 98¢	3	LU COO The point LU Coo Cook
20	COTS YOUR	# driller's nate 4 1 (sucks), 2 (substick), 3 (piece), 4 (fragment 1 (trend) — 5 (accomposed)	Po mox. = 10.0 15.00 0 587.609 Water table 0.50 Water table 0.50 Water table 0.50

			<u>GOK</u>		PR	OTE	<u>CT</u>		HOLE NO		<u> </u>		1000
LOCA	ATION	Ŋ)AM			_		PTH OF HOLE 100.0		<u> 45 -</u>		<u>-1988</u>
ELEV	ATIO	N	<u>60</u>	7,60		!	m		PTH OF OVERBURDEN O	m COMPLETED	11 =	<u>.9</u>	-1988
COOF	NIOF	ATE	<u>`</u> Y.4	452,559 177,956	*******		_		NGTH OF ROCK DRILLING 100.0			SL	
ANG	E FI	ROM	HOLIZO	NTAL	9	Q	<u>•</u> .	TO		LOGGED BY _	الـــا	<u>CA</u>	-نىسىنى
BEAF	NG	QF .	ANGLE	HOLE			_	CO	RE RECOVERY 100.0	%			
	,,,			[.	T			0	BSERVATION OF CORE	, , , , , , , , , , , , , , , , , , ,	, 1		z
¥	ROCK NAME	ø	ZE Y	TY SO S	-	8	92				/ {	₹	OT.
ДЕРТ К	ð	40	CORE	CEMENT TION KIND O BIT CASING	80,00	ĒŘ	HARD. NESS	CORE	DESCRIPTION			8	ğ
	8		œ		10	3	Î	, C				}	
20m			0 ⇒100%		1	<u> </u>				LUGEON	m	Om!	587.6090
1			NXXII		1	ļ		, .		1.= +5	1	_ }	
1		, , i	UUU		-			3				_, }	
1 1		V	KKKK]	2	<u> </u>		1	_ \	
الما	į	1	KKKK				[;	_	22.0 ~ 22.7m : Piece cores	, kg/cm			- A - 1
2-			иии				İ .	3	122.9				
1]		KKK] · [1			2	22.7 Weak Serpentin 20 0	Lu= 2.9			
3-	j	V.	KKKKI) }		1) '	1	·	P = 44 = 10.0		-3]
1			WW.	1]			78782	20	-	1
4-			XXX.		1				·		21.16	-4	
127		:	KNNN			}		2		1 = A		- }	
5 1	Į	V	WW	} '}		ļ	1		25.0 in : Weathered calc	te .	}	-5	
1	. [. •	иии		1				and the law mode	10 max = 10.0		-	
, 1	.]		иии		1.				Vein less than imm wide			-8	
					l	Ì			(60°dip).			- 1	
	1		иии))	1				270	Lu = O		-,	
7~1		V	KKK	1			1		27.0	Pomax = 10.0	1	_ }	
7	i]	}			}			15.00		
8-	1	1	KKK	{ {			}				15.00	·	
4			WW							Lu ≈0		_	
9-4	9)	V	жж		gray	+	Į,					-9	
=	3		жи	mu 98¢	6				000 301 5000	1011100-10.0		-	
30-3	Peridoti	4	KKKK	28			2		29.8~30.8 m · Serpentine			-0	-
1	ric		WWW	19-	Dark		1		less than Imm wide along] [-)	·
30 1 minutuminanianianianianianianianianianianianian	V_{Φ}	V	rikiki i		15		1		several cracks.		1	-1	
3	1	V	XXX		1			1	Sere far cracks.	Po mox. = 10.0		-	
, =	ļ		KKK		1		} '	١,	set abuse to		22.45	-2	
4	Į		иии	, ,	}	1	[,	-		16.70	_ {	
<u> </u>			XXX					2	wide (30°dip)	Lu = 2.9		_3 {	
3-7	l	\mathbf{v}_{\parallel}	alala		l	Į				Po max = 10.0		_	
4			иии						33.6~34.0m core:	•		.	
4-1	1		HHHH										
7	}					}	}	'	Laboratory test.	Lu = 5.2		_ }	,
5-1	}	V	HYY			1				100.0 % SORIPTION WATER PRESSURE TEST LEAKAGE OF DRILLING WATER LUGEON LUC = 5.5 Pomar. = 10.0 South 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
4		1	XXXXX			}				10 805 10.0	32/4	- }	
6-	1	ļ			}				·		28.95	-6	
=			HHHI			İ		į		14=12		-	
7-			KKKKK									-7.	
=		V				ĺ			•	Po max. = 10.0		-	3 3 - 3 - 3
8-1			KKKK									-8	
2	j		THAT]						. }	
1	1					}			39.0 ~ 40.0 m : Piece core:	Lu=7.4		ا و۔	
9-1	1	V		. }		1			no serpentine,	Power, = 10.12	[
1.3						}		3	40,0		16,70	ا ه	367.609
40	لــــا		רו (לא מואואות		<u></u> .	1		1	p driffery note 4		1		
								1 (5	tick), 2(substick), 3(piece), 4(fragment), 5 grain	after drilling	0.30		
			IN KY	- core loss			 	#di~!		vater table before drilling	1		
			ŧ	- ROD		1,			omposed)				

LOCATION ELEVATION COORDINA ANGLE FRO BEARING (, <u>6(</u> те <u>ў</u> ом ноliz	ONTAL	9 .74 .83 .90		n	DEPTH LENGTH TOTAL	OF HOLE 100.0 OF OVERBURDEN 0 H OF ROCK DRILLING 100.0 LENGTH OF CORE 100.0 RECOVERY 100.0	m COMPLETED m DRILLED BY O m LOGGED BY	11 -	8 9 SI CA	-1988 -1988
DEPTH ROCK NAME	LOG CORE RECOVERY	CEMENTA- TION KIND OF BIT CASING	90100	WEATHER -ING	HARD NESS	OBSER	VATION OF CORE DESCRIPTION	WATER TABLE — M WATER PRESSURE TEST LEAKAGE OF DRILLING WA	V	ОЕРТН	ELEVATION
40m	0 1 1 1 1 1 1 1 1 1						40.0m: Serpentine Imm wide along 45°dip crack	Lu=0 Pomax = 10.0 hg/c== Lu=0 Pomax = 10.0	m 34.60	0m -1 -2 -3	5 <u>6</u> 7.409 °
e 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					2	Serpentinization is wea Scattered serpentine	Lu = 0 Pomox = 10.0	25.98 25.98	-4 -5	
8	\ \ \ \	mm	gray			49.5	less than I mm wide.	Lu = 0 Pomax. = 10.0 Lu = 0 Pomax. = 10.0	27,50 41.36	-7 -6 -9	
	\ \ \	mm 98¢	Dark 9	°2	2	2 51.0		Lu=0 Pamex=10.0	<i>31.7</i> 0 31.70	-0 -1 -2	
milwidimitor	>					2	Continued stick~ substick cores.	Lu = 0 Po max = 10.0 Lu = 0 Po max = 10.0	28.90	-3 -4 -5	
وساساساساساساساس	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							Lu=0 57.15 M Pomox = 10.0	41.60	-7	
9-11-11		core loss				i	iriller's note 4 (schebch), 3 (piece), 4 (fragment), 6 grain	Po mox. = 10.0	0.30 0.50	0	\$47.609

			~~!~	^				<i>,</i>	UNIE N	O. SK - 3 (SHEET	/ os	ς,	
			COK	IAS IAM	<u> </u>	OJE.	UI.	D.G	PTH OF HOLE 100,0		25 -	8	-1988
	ATIOI VATIO			7,609	3		m			m COMPLETED	11 -	9	-1988
COO	RDIN	ATE	X. 4	452,559.	74				NGTH OF ROCK DRILLING 100.0		D	SI	
			HOLIZO		9	0	•	TO	TAL LENGTH OF CORE 100.C		ال	CA	
BEA	RING	OF .	ANGLE	HOLE		•		CO	RE RECOVERY 100.C)%			
	Ψ		-	4 1				C	BSERVATION OF CORE	WATER TABLE	١,		š
ОЕРТН	POCK NAME	0 0	CORE	CASING	8	E 2	28	a S	DESCRIPTION	WATER PRESSURE TEST		DEPTH	ELEVATION
ā	ğ	٠.	J JH	음 호투?	80,08	WEATHER	HAH	CORE		LEAKAGE OF DRILLING WA			
6ºm			0 → 100%							LUGEON	m 31.55 €	0 m	547.669₹
-						ļ			60.0		3/33 E	.	
1 1		V								Lu=0	E	1	
		. *			1	1				Pomox = 10,0		.	
2-			KKKK					2				2	
				.)	1			_	·	Lu=0	1		1
3-		V	MM							Poirax = 100		3	-
l dan			KKKA			1		Ì			27.70		.
4~1			ШИ	}	1						38.90	•	1
1			HKKK					ļ		Lu=0		5	
5~1		V	ШИ						65.5 65.5~65.7m: Piece ~ 65.7 fragment cores, weak	Po 1944. = 10.0	E	.	
		ш.	KKK		1			1~Z	65.7 fragment cores, weak		111	-8	-
, ,								$ _{Z}$	serpentinization.	Lu=0	1	.	
7-		V	KKKK						October 10 11 11 11 11	Po mox. = 10.0	È	7	
1 1		,	KKK		ļ			<u> </u>	67.5	10 max. 270.0	E	.	
8-											27.10 27.10	8	
2 3 4 5 8 7 8 9 70 70 70 70 70 70 70 70 70 70 70 70 70			KAKA		١.					Lu=0	1		1
9-1	it.	V			١,			/			Į.	9	ĺ
	Peridotite			486 mm	ğ	12	_	1		Po max = 10.0	thrut		
/0-1	170			\$8¢	"	Φ Ζ	2	2			لنسا	.	1
1	Pe			1	Dark	Š	1		,	Lu=0	E	,	
17		V								Po max = 10:0		.	1
2			KKKI				ļ	<u></u>	72.5		32.10	2	
2-									73.0 m and 73.2m :	Lu=0	46.70	.	•
3		¥			1				Serpentine Imm wide			3	1
1		7/24	ИИ					2	•	Pomex = 10.0		.	. [
4-									along 50° dip cracks.		<u> </u>	-4	:
1	İ	غفشن			1				74.5m: Serpentine I~	Lu=0	į į		
5-		ν.							75.0 2 mm wide along 50 dip	Pomax = 10.0	1 16	5	•
1]		Ì	crack.		JX.90		
6-1								1			3490	_	:
		أري				İ		(•	Lu=0	F-E-	7.	ĺ
7-1		V						\		Pomox = 10.0	E	.	[.
5 6 7 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								2			4	8	, 194 B
°										120	E	.	1
9 1								 	79.0	Lu=O	Ē	9	
1		•						2		Pomox = 10.0	War E		C37/00
80 1						<u> </u>	<u></u>	<u>. </u>	► diiler's note 4	<u> </u>	34.95 €	0	527.609
						Ì		1 110	tick), 2(substick), 3(piscs), 4(freqment), 5 grain	Water table after drilling	0.30		
			INA KIN	com loss			[14h	wd) ~ :	5 (saft)	Water table before drilling			
			Ē	ROD		1	(fresh)	~ 5 (dec	3 - 22				

LOCATION ELEVATION COORDINA ANGLE FRO BEARING O	6C TE X: 4 OM HOLIZO	0AM 07,609 452,559 ONTAL	34 9(DE LE TO	HOLE NO EPTH OF HOLE EPTH OF OVERBURDEN ENGTH OF ROCK DRILLING 100.00 OTAL LENGTH OF CORE DRE RECOVERY 100.00	m COMPLETED m DRILLED BY Dm LOGGED BY	25 - 11 - C	8	<u>-1988</u> -1988
DEPTH ROCK NAME	CORE	CEMENTA- TION KIND OF BIT CASING	COLOR	WEATHER -HG	HARD.	Ţ	DESCRIPTION OF CORE	WATER TABLE ————————————————————————————————————	ATER	ОЕРТН	ELEVATION
Cocommunitarity of the state of		ws 78¢	Dark gray		2	2	86.3 m: Sequentine Imm wide along \$5° dip crack. 88.6~89.1 m care: Laboratory test. 89.5 m: Serpentine 1~2 mm wide along 30° dip crack. 91.1 m: Serpentine 1~2 mm wide along horizontal crack. 92.4 m: Serpentine and calcite vein less than Imm wide. 980 R.Q.D(Av.) = 91% 1000 End of drill hole	LUGEON Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0 Lu=0 Pomox=10.0	45.80 45.80 45.80 45.70 44.70	- 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$07.609
		— core loss — RGD				wd;~	rick), Z(substick), 3(piace), 4(fragment), 5 grain	vater table after drilling —— vater table before drilling	0.30		

					•	ac	i.U	L \	JOI	C LOG OF DIGI				_	
				SAIX		PR(DJE(CT		The state of the s		SK-4 (SHEET	.] OF	4	1000
LOC/	ATION	١.		MA(<u></u>			and the second s	<u>00.08</u>	m COMMENCED_	10-	<u>- 8</u>	-1900 1000
ELEV	'ATIC	N		07				<u>n</u> .			0	m COMPLETED			-1200
COO				452.56 177.95	Š	ŏ	<u> </u>	- '			<u>00.08</u>				
ANG	LE F	ROM	HOLIZO	NTAL _			5					m LOGGED BY		1,4/	7
BEA	RING	OF .	ANGLE	HOLE _	<u>5</u>	25) <u>t.</u>		CO	DRE RECOVERY	00.0	_ %			
	Ų.		2.7	ά. <u>ν</u> .			نام		0	DBSERVATION OF CORE		WATER TABLE	√	_	NO.
DEPTH	OCK NAME	0 0	CORE	NOOP I	ž	æ,	/EATHER	ESS.	TING TING	DESCRIPTION		WATER PRESSURE TEST		ндазо	LEVATION
ا ة	ĝ	ا	386	8 399	5	COLOR	WE'S	HAR	용능	DESCRIPTION		LEAKAGE OF DRILLING WA	LTER .		a
Qm.			0 + 100 _{ec}		+							LUGEON	m	Om	607.222 m
			imnxd		TŤ					No surface soil.		003			
=					Н				2	1 140 SULTUCE SOIT.	{	Lu=(98)	} }	I .	
1 1		V							3	15 Oxidization crack	is tew	Pomox = 3.0	{	E. '	
1 1					\prod				2)		kg/cm²	150		
2-7	ļ								3	2.6 2.6 m : Serpentine	lmin		1.50	•	
		عدعه	M		11					5.6		Lu > 100		2	
3-3		V	WWIII		11			1	1	wide along 30'dip cr	raue,	Po max = 30		,	
1			YИИ	1						1 1 1 1 1 1 1 1 1		·		- <u>a</u>	
4-			ИИ						2	(to drilling di	rection)			rete.	
1 1			KKK III))	11		Ì				·]	2u = (28)		. s	
5-7		V.	MIN			-					1	Po max. = 5.0			
]]			1	•	\$ G	58 5.8~6.1m: Piece-tr	ragment		6.00	-6	
6-3			KKKI				}	Ì	200	6.1 cores, weak serpen	stini-		6.00	Ē.	
			HUHA	1 1	*		ĺ	l		•		Lu = 0.		E -7] [
7		V	KKKK				l		ļ	zation.		Pomox. = 5.0		Ē	
7			WW		-		ĺ							E-g	
8-3		1111	KKKK				ĺ			8.2m: Serpentine 1				Ē	
	Ó		IHHH			>		ļ	,	wide along 30'dip cri	rack.	Lu = 0	2.05		
9 3	11.	<u>~</u>	KKKK	Ē		Dark gray	[.	•	'	9.3 m: Serpentine 1		Po mox = 5.0	2.05	E.	ļ <u> </u>
]]	20			₩ш 98ф		~×	2	2	,	!	ſ			: o	[
10-3	77			24	-	द्रे	_		3	wide along 30' dip a	, MC /C.			<u> </u>	
	g		KXXX		-	٠~٠			2		ł	Lu = O		£ 1	
1 13		V					}	}			1	Pomor. * 10,0		E .	
]	1			}	1			}		·		<u>:</u>	2.00	2	
2-1							ļ	}			}		1.30	E .	-
			WW.								1	Lu = 0	1	3	1
3-3	{	V	ИИ							·		Pomor. = 10.0		E .	
	}		WW.		1					140 140~15.0 m : Piece	cores			4] [
4-3	Ì				Ì				3	weak serpentiniza				<u>}</u>]
	ł							[15.0		Lu=2.0		E -5] .]
5-1	- (V			- [į				1010	į.	Pomox = 10.0			
[ļ				ļ				1				2.70	-6	
6-	ļ					į			5	16.0~16.3 m core:		11.5	16.00		.
]					ĺ			[]	Laboratory test.		Lu=6.2		7	
7-1	ļ	¼ .							2	18.5m: Serpentine	2mm	Po max = 10.0		<u>.</u>	
_i	1	ļ				ļ				•	1			8	
8-	1	1								The Caloud in oile					{ }
	}				}	- 1			,	17.1m: Serpentine o	and	Lu = 3,9		9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
9-7	ļ	V				i			2	calcite vein 2mm w		Pomor. = 10.0		-	{ }
20		، معند								200 along 60° dip crack			3.00	0	593.080
1 نیز استا			N				1	1	1		17.0	ter table	الحداث	*	
										śśck), Złaubeścki, Sipiece), Alfregmenti, 6 gre	_{ein} a wa	iter table	183		•
			,	— cora loss					13(0)! E(da		Ē	pefore drilling			
			1	- 80D			1	(u ean)	- 31081	composed)					

					G		Ļ \	/(Z	C LOG OF DRILL			
				KTAS	PR	OTE	<u> 75</u>			O. SK - 4 (SHEET		<u> </u>
LOCA	ATIO	N)AM			<u>ــ</u> ـ	DI	PTH OF HOLE 80.0			3 1988
ELE/	/ATIC	Ж		507,2	<u>22</u>		n		PTH OF OVERBURDEN O	m COMPLETED		
C00				493.369.	ġŎ.				NGTH OF ROCK DRILLING 80.0		DS	
			HOLIZO			5	_		tal length of core 80.0		JIC	Α
BEA	RING	OF	ANGLE	HOLE S	<u>ک د</u>	<u>) </u>	:.:	CC	DRE RECOVERY 100.	<i>J</i> %		
	Ų.		≿	a . u .		,~	,	(DESERVATION OF CORE	WATER TABLE		ž
DEPTH	ROCK NAME	E 0 G	CORE	CASING	8	HER G	3	발을	DESCRIPTION	WATER PRESSURE TEST	DEPTH	ELEVATION
•	Ğ	د	25	8 329	COLOR	WEATHER	HARD	88	DESCRIPTION	LEAKAGE OF DRILLING WAT		3
20m			0+100		-	-		 		LUGEON	m a	m 583.080 T
			turuni		 		 		19.8 m : Serpentine 1~5		300	0.00.00
			HHH					1	•	$Lu^{-}2$		
1 1		V					}	1	mm wide olong 30°dip cruck	Pomax = 10.0	E	
							Ì	2	22.0~22.5 m : Weak	rg/cin		
2-3			KKKK		}	}		2	22.5 sementinization.		-2	1. {
							}	<u> </u>	22.5	Lu = 3.8	E]
3-1		V				}		1		Pomax = 10.0		
1 1							Ì) (10.60	1
4-9	:		MAR			į	ļ		* .		13.00	
1 1				{· {		(ļ	2	<u> </u> 	Lu=0.4	E 5	}
5-1		V.	HIHI					ł	25.5 25.5 ~ 26.0 m: Piece cor	Poinax = 10.0	1 20	
1 1								3	ľ	9.3 ,	l E.	
2-1		٠.						-	26.0 80'dip crock with thin		6	1 1
1 1		_4646	XXX			•		}	serpentine.	Lu=3.0	E,	
7 7	. !	V	KKK	}	}			}		Pomax = 10.0	I E'	1
		·							26.8m : Serpentine Imm	10may, -1010	17.00	}
8-1								{	wide		17.00 8	
=	n)				5				wive	Lu = 0		}
9-	1	V		E	grav	[Pomos = 10.0	9	
=	40			man 98¢		b _						
30-	Peridot			8	Dark	2	2		30.6 m : Serpentine 1-5		F-0	
1	6	Jul	HHH		4		}	}	ſ ·	Lu=1.3		
1-3		V	KKK					¦	mm wide along 20° dip crack	Po mox. = 10.0		
4	Ì						ļ			, , , , , , ,	13.76	
2-	- 1		KKK			•)			29.10	1
=	į							,		Lu=0,4		} }
3-	. [V						2	·	Pomax.=10.0	E-3	} {
						[10 max70.0	· E.	
4-3	j						·				F-4	
1 1	Ì		HHH]		Lu=3.0	· E.	1 1
5-		V							·	Pomax = 10.0	5	-
=					}	}		}			18.70 g	}
8-									37.3m, 37.4m and 37.7m:		18.70	
4	. (HHHH					[Lu=48	Ē	
7-	į	V							Serpentine Imm wide along	Pomax = 10.0	F-7	
4		****							55° dip cracks.		. •	
8-								[•		E-8	1
=		! .	HHHH						*	Lu=1.2	. [
9-		V								Po max. = 10.0	E-9	((
1, 1		:									17.15 0	578,938
1201								-	▶ driller's note ◀		<u>.::::::</u>	<u> </u>
							}	1,	itick), Z(substick), 3(piece), 4(fragment), 6 grain	water table after drilling	اميوا	
			in VI	→ core loss			10	18 <i>få</i>) ~	S(soft)	Water table before drilling	10.50	
			t	- ROD		1,	(des si)	- 5 {de	composed	4		
									3 - 25			

	(SOKT	AS.	PR	OJE(ΣT		HOLE No	SK-4 (SHEET	3 of	4	
LOCATION		DA				-	D£	PTH OF HOLE <u>80.0</u>		10-	<u>8</u>	<u> 1988</u>
ELEVATIO	N		7.2	22	n	<u>n</u>	DE	PTH OF OVERBURDENO	m COMPLETED	24 -		_1988
COORDIN	ATE	X 45 Y 4.17	2,560. 7,955.	15 30			LE	NGTH OF ROCK DRILLING <u>80.C</u>			<u>)SI</u>	
ANGLE F	ROM HO	LIZONT	AL		<u>5</u>		то		Om LOGGED BY		C	A
BEARING	OF ANO	GLE HO	LE _S	25	<u>5°E</u>		CO	re recovery 100.0	<u>)</u> %		•	
						<u></u> -	0	BSERVATION OF CORE	A 3			Z
DEPTH SOCK NAME	יע ט	RECOVERY	SO S	_	es l	ıχ			WATER TABLE	ν	DEPTH	ELEVATION
DEPTH XCK NAV	3 8		ESP2	SOLOR	WEATHER ING	HARD. NESS	CORE	DESCRIPTION	WATER PRESSURE TEST	TED	ង	ELE
8			, 	Ľ	13	T	ರ		LEAKAGE OF DRILLING WA	~ +		
4 am	0 →	100%							Luceon	J250	Um	578.938-
] [140	HIKI		ļ				I	Lu=1.6	10,000	-	
			Į								-1	
'1							1.		Pomox = 10.0] [_	
3 4 4 5 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HIN		1	Ì				42.1m: Serpentine Imm	kg/cm²		-2]
2-5	- 111		1			}	} '	wide along 30°dip crack.			_	
1	KU		1				2	, , , , , , , , , , , , , , , , , , ,	Lu=15.0	1	-3	
3-7			-	ļ			_		Pomox = 10.0			
			l							18.20		
4-3										18.20	-4	
								44.5	Lu= 40]
5									Pomax. = 10.0		5	1
-			1	}	} :				/ 8170y, = 10.0		-	
6-3				ļ				٠ .		1	-6	
] -	111						}		Lu=6,3		_	
7-						İ		47.5m : Calaite vein Imn			7	
1 1								wide, 60°dip.	POINEY. = 10.0] [_	1
8-11			1		}			11.00,000,00		21.70 44.30	-8	
"====================================							2	<u>.</u>	Lu=0.4	47.30	_	
			2	>	Į,		_	48.8 m : Serpentine Imm	Pomos, = 10.0		-9	[[
1 2		KK	Ĕ,	a				wide along 30 dip and 45			_	
Continuituuluuluu Peridotite			ww 98¢	Dark gray	2	2			-77.55 A	1	-0	
100 g			Ī	7	_	2		dipcracks.)]
177				Š				50.4m: Serpentine linm	Lu=0		-1	} }
17 04				ļ				wide.	Pones. > 10,0			
1				ļ				51.7~52.0 m core :	:	22./0		
2-		HH.								22./0	- 2	
=					,			Laboratory test.	Lu=0			
3-	V	11)				Pomox = 10.0	1	-3	1
4	KX		} .					53.5 53.5~54.3m: Piece cores	}	1 1	=	} }
4-							3	54.3 thin meshy serpentine.		1	-4	
							2	60	Lu=0			
5-3	V					.	<u>.</u>	55.0	0 -10.0		-5	
		1				.	3	510 01 · · · ·	Po max. = 10.0		-	
)				560 56.0m: Calcite vein 2		16.90	-6	
"	III						2	56.5 cm wide and serpentine	Lu = 0	1×0. ¥0	-	
]]	、脚	HAII		i			2	,	Į.		-7	
']	X III		-				5	5mm wide along 25° dip	Pomax = 10.0] [
3 4 1 5 1 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							3	crack.			-8	
8-3							3	58.5 57.2 m : Serpentine Imn			_	
				Ì					2 u = 0] ; 50.]	-9) i
9-3	Y						2	wide along 20°dip crack.	Pamax = 10.0) . I
							_		1.50	17.15	0	564.796
601	<u> </u> 			L		<u> </u>		► driller's note <	water table	استحضيته		
		13					1 (s	tick), 2(substick), 3(piece), 4(freqment), 5 grain	water table after drilling	إينيوا		
	r/1	KA co	ve loss			1 (6	ard) ~		water table before drilling	0.20		
	ě.)O		1	(fresh)	~ 5 (de	composed}				
								2 26				

LOO/ ELEV COO ANG	ATIO RDIN LE F	ON IATE ROM		KTAS DAM 507. 2. 452.569. DNTAL HOLE S	PR(22 15 30 4	5 <u>-</u>	<u>n</u>	DE DE LE	PTH OF HOLE PTH OF OVERBURDEN NGTH OF ROCK DRILLING BO.O TAL LENGTH OF CORE BO.C	m COMPLETED Om DRILLED BY LOGGED BY	10- 24-	8	-1988 -1988
DEPTH	ROCK NAME	Ur FOG	CORE PECOVERY	CEMENTA- TYON KIND OF BIT CASING			HARD	0	RE RECOVERY 100.C BSERVATION OF CORE DESCRIPTION	WATER TABLE —V WATER PRESSURE TEST LEAKAGE OF DRILLING WA	V	БЕРТН	ELEVATION
6 6 7 1 2 2 3 4 5 5 7 1 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	Peridotite		DEFINITION OF THE PROPERTY OF	130 mm 98¢	Dark gray		Z Z	3	62.0 62.3 67.2~67.5 m: Thin meshy 67.5 serpentine.	Lu= 0 Pomax, = 10.0 Lu= 0 Pomax = 10.0 Lu= 0 Pamax = 10.0	m 17.15 26.70 48.50 17.90 17.90 17.90	0 m 1	3 \$64.786₹
6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								3 2 3	75.5~76.0m core: Laboratory test. 77.3 77.3~77.8m: 90° dip 77.8 crack. R.Q.D (Av.) = 86%	Lu=0 Pomox.=10.0 Lu=0 Pomox.=10.0	18.00 18.00	6 7 8 - 9 անականականական	
80				core loss		1		nard)	800 End of drill hole be drifter's note 4 tick), 2 (aubstick), 3 (piece), 4 (frequent), 5 grain (composed)	Water table after drilling Water table before drilling	0.30	<u> </u>	<u> 550,653</u>

			~ ^ Y	T' A C				, Cai	UNIT NO	SK-5 (SHEET 1	or 5	
100	ΙΟΙΤΛ		<u>GOK</u>)AM	_ F [X	OJE	<u> </u>	DE	PTH OF HOLE 100.0	0 m COMMENCED 14	- 7	-1988
ELE	VATIC)N	5	17.56 52.534.2 78.057.8	1		n '	DE	PTH OF OVERBURDEN 39.0	0 m COMPLETED 6	_ 9	-1988
					7 2				NGTH OF ROCK DRILLING 61.0	O m DRILLED BY	DS JICA	λ
ANG	LE F	ROM	HOLIZO	ntal <u> </u>	_ <u>5;</u>	5 • F	-		TAL LENGTH OF CORE 69.9 PRE RECOVERY 69.9	7 m LOGGED BY	716	1
GCA	····	. O		110cc <u>Q</u>	7				DESERVATION OF CORE		Τ	
DEPTH	POCK NAME	507	CORE RECOVERY	CEMENTA- TION XIND OF BIT CASING	œ.	5	SS	пŠ		WATER TABLE	DEPTH	ELEVATION
30	ğ	. J	CO	CEMI	80100	WEATHER	HARD.	805 515	DESCRIPTION	LEAKAGE OF DRILLING WATER	8	99
0m			0+100		<u> </u>	-	-			LUGEON m3	Orr	5/7.56/7
			W					1			THE STATE OF THE S	
1-		0				 }					1	
1					١		[]					
2-					ļ			Ì			F-2	
									Alluvium.	3.0 3.0	2 3	
3-		0	MW						They include peridotit) E	
4-					1	11			and some limestone		£ 4	{
							Ì]		سطي	
5		0		III.					grave/s.	j	- <u>1</u> 1111	
				\$90 mm		} .		}		6.C 6.0	<u> </u>	1
6-				8					No fine material in	6.0	2 -	
7		0						•	core hox.		E-7	
				}	>		\mathbb{I}			7.5		
8-					oro	3				8.10M	- 8	
1 4	4	\sim			400						oE.	
9-2	3	0			hroenich				0~26m: All peridotite	7.6	OF S	
3 4 for for for for for for for for for for	Huvium				J.			<u> </u>	gravels.	7.4	a o	
	111				}			 	·		Ē.	
1-	A	0			OVAV						<u>[</u> -1	
	! i				24	4		}			o -	
2-					1					7.4	0 <u>E</u> ~	
3-		0			1			ļ		7.4	<u>0</u> 3	
				11						6. 6. 6.	'o =	1 1
4										6.7 6.7	0 4	
		_						1		<u> </u>	0	
5		0	Z							6.7	0	
6				₩₩ 98Ф					·		E-6	
1				\$							<u> </u>	
7-		0								6.7	0 -7	
1											Time.	
8-											Fried.	
		O									9	
				1			}			7.5	o E]
20		L		11		<u> </u>	<u> </u>	-	p driller's note €		FO	501.178
							1	16	tick), 2(substick), 3(piece), 4(freqment), 5 grain	vater table after drilling - 0.3	긹	
			Y N VF.	core toss				ard) (•	Water table before drilling	1	
			I	- ROD		1	(frest)	⊷ 5 (dec	composed)			

				TAS	PR	OJE	CT				2 of		
LOCA				MAC	_					0 m COMMENCED			<u>-1988</u>
ELEV	ATIO	N	<u> </u>	17,56 52,534.2	1		<u>n</u>		EPTH OF OVERBURDEN 39.0	O m COMPLETED	_6	<u>9</u> (S	-1988
			-44	74,05 / 8	ž 5!	ξ			NGTH OF ROCK DRILLING 61.0	Om DRILLED BY DOGGED BY		10/	\
ANGL	LE FI	ΩE, KOM	HOLIZO	HOLE S					ORE RECOVERY 69.9	$\frac{7}{7}$ m coddeb at .		<u> </u>	7
			T	noce O	79				DBSERVATION OF CORE	1 /0			
] =]	YAME	Ø	ERY	ESO S	-	95	· v2	ي	PROFESSION OF COME	WATER TABLE	√ —	Ŧ	LLION
DEPTH	ROCK NAME	L 0	CORE	CEMENT TION KIND OF BIT CASING	COLOR	WEATHER	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SE SE	DESCRIPTION	WATER PRESSURE TEST		DEPTH	ELEVATION
1	×				, ·	3	<u> </u>	ರ		LEAKAGE OF DRILLING W.		0	
201			0 → 100,				ļ.,	-		COGEOIA	m	- Um	517.561♥
1 4				<i>ви</i> 06ф		1	}	1	1.			-	
14		0		66		}	}	}			7.30	-1	
7	-	-					}					•	
2	- 1			ų.							7.20	-2	
1	1	_		1					26.0-27.5m: Included		7.30	_	
3-7		0							red shale gravels.		7.30	~3	
1	}								4			_4	\
ى بىلىيىلىيىلىيىلىيىلىيىلىيىلىيىلىيىلىيىلى	.										7.30		}
		\cap		:		[]		ļ			7.30	-5	
		O.					1		ļ			_	}
	.										7.30	-6	1
	{		KWW.	4 75 mm	×		\	}			7.30	_	
7	-	0		7.5	470							7	
1				9		τ .			•		7.30	_]]
8-					100						1,30	-8	
	3		MM		Greenish				29.0 ~30.5m: Included			_	
9 2 2 م م بلسياسياسياسياسياسياسيان	Vium	O			. 4 <u>5</u>	Ì			limestone gravels.	Į .	7.30	-9	((
1	73				द्ध	- -			•]
30-	A				16	\				·		-0	{
1	. {				Dark gray							_	} }
1-4		0			Q							-1	
듹	-]			\ . ,, E	-]
2-3				+							7.30 7.30	-2	1
4	}	_		1					'			-	
3-3		O,										-3	
4			MM					1					
4-7	Ì			W.								-4	
ع م 4 و 2 ماينمانستانستانستانستانستانستانستانس]	\sim		457 mm			}				2.30	- 5	
5-7		0	MM	54			ļ				7.30	- v	
l and	- [i	MM					$\{\ \}\ $				- -6	{
87	ļ		HAND						38-39m: Included				
, 1		\cap							limestone gravels.) E	- 7]]
, T		0			1.				Aires in.		}	_	} . }
E.9	}		THAT I	1				1		<u> </u>	7.30	-8	
, 11				s /						Lu=22.0	7.30	-	
9 4				57		ļ			39.0	Pomex = 10.0		-9	485.614
1	흕첉	V		€.	gray gray	2	2	3	Peridotite.			_	[
40 0	<u>e</u>]	· •	Ший		80	> _	<u> </u>	4.		No / cm	LE	0	484.785
						1	1	1,,	► d/iller's note 4 tick), 2(substick), 3(piecs), 4(fragment), 5 grain	Water table after drilling	0.30		
			KA RY	core loss	:		1,0	۱۰ - ~ (nard	DOM, 2(9002DOM), STANDON STINADINETIL O BURN	Water table before drilling	0.50		
		•	1	- AQD		1			composed)	==, = = = = = = = = = = = = = = = = = =			

GOKTAS PROJECT	HC	DLE NO. SK	-5 (SHEET	3 of 5)
LOCATION DAM	DEPTH OF HOLE 1	00,00 m	COMMENCED	<u> 14 - 7 -1988</u>
ELEVATION 517,561 m	DEPTH OF OVERBURDEN	39.00 m	COMPLETED	6 - 9 <u>-1988</u>
COORDINATE Y. 4/78/057/82	LENGTH OF ROCK DRILLING	61.00 m	DRILLED BY	DSI
ANGLE FROM HOLIZONTAL 55	TOTAL LENGTH OF CORE	69,97 m	LOGGED BY	JICA
BEARING OF ANGLE HOLE S40'E	CORE RECOVERY	59.97 %		

Ξ Ş	U	ERY	NO OF	 	ĸ	89		SERVATION OF CORE	WATER TABLE	√	ОЕРТН	ELEVATION
DEPTH ROCK NAME	100	CORE	CEMENTA TION KIND OF BIT CASING	COLOR	WEATHER ING	HARD- NESS	CORE	DESCRIPTION	WATER PRESSURE TEST LEAKAGE OF DRILLING W	ATER	90	ELEV
1 Om	<u> </u>	0 →100 _%							LUGEON	717	0m	484.795
سباسياسياسيا	V						3 1 4	39.0~42.0m: Piece ~ fragment cores.	Lu = 0 Poinax = 10.0 kg/cm²	7.30 7.30	1	
andminin	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					Andread and the state of the st	3	41.5m. 42.0m and 42.2mi calcite vein linm wide. 42.1m: Serpentine Imm	Lu = 0 Pomax = 10:0	7.30	ىلىسىلىسىلى 4	. 4
4 اساسطسلس ا	\ \ V						2	wide.	Lu = 0 Pomax = 10.0	7,30	المتاليسليسلية م	
و المسامية المسامة المسامة المسامة المسامة المسامة المسامة المسامة المسامة المسامة المسامة المسامة المسامة الم	\ \ \						3		Lu = 0 Pomex. = 10.0	7,30 8.45	եսուհու 1 1	
8 դեսակապեսուն գենք	orrie <f< td=""><td></td><td>\$57 mm</td><td>oray</td><td>1</td><td></td><td></td><td>48.8m: Serpentine 3mm 19.5 wide.</td><td>Points = 10.0</td><td></td><td>րուրուգրուգրություն 8 9</td><td></td></f<>		\$57 mm	oray	1			48.8m: Serpentine 3mm 19.5 wide.	Points = 10.0		րուրուգրուգրություն 8 9	
			Sφ	Dark gray	2	2	2	50,5m: Serpentine lens diameter Icm. 51.5	Lu = 0 Pomox. = 10.0	0.73	مارسلىدىيىلىدىيىلىدىيالىدى مىرلىدىيالىدىيالىدىيالىدى	
3 3 3	\ \ \						2 3		Lu = 0 Pomax = 10.0	8.15 8.15	3	
4	\ \ \						434	43 543~54,5m and 548~ 45 55,2m: Fragment cores. 52 weak serpentinization.	Lu=19.0 Pomox = 10.0		السياسياسيان 15 ماسياسيانيي	
اسالسالسالس السالسالسالسالسا	\ \ \						2		Lu=16.1 Po=ax.=10.0	8.45 8.00	6 	
յում Մադրադրույր	\ \ \						3		Lu=4.8 Pomox =10.0	8,00 8.15	9 9 0	

COO	ATIO RDIN	ON NATE ROM	5 <u>£ 41</u> HOLIZO)AM 17,56 52,534,2 78,057.8	<u>.</u> 59		<u>m</u>	DE LE TO CO	PTH OF HOLE 39.0 PTH OF OVERBURDEN 39.0 NGTH OF ROCK DRILLING 61.0 TAL LENGTH OF CORE 69.9 RE RECOVERY 69.9	O m COMPLETED O m DRILLED BY LOGGED BY	14 - 7	-1988 -1988 I
ОЕРТН	ROCK NAME	106	CORE	CEMENTA- TION KIND OF BIT CASING	80100	WEATHER ING	HARD. NESS		BSERVATION OF CORE DESCRIPTION	WATER TABLE		ELEVATION
6 7 7 8 9 70 1 2 3 4 5 6 7 7 8 9 9 80 8 9 8 9				456 mm	Darkgray	2	2	3 4 2 3	26.2~61.4 m core: Laboratory test. 64.2 64.2~66.0 m: Poor cole recovery. Piece cores. 66.0 66.4 m: Serpentine Imm wide, 66.8 m: Weak serpentinization 2~3 cm wide. 10.2 aboratory test. 78.0	Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0	9.00 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	452.029
				core loss ROD	٠.			sed) ~	tick), 2(substick), 3(piece), 4(freqment), 6 grain 5(soft) .cmposed)	Water table before drilling	0.50	

					Gl	C LOG OF DRILL		~ -	
LOCATIO	N5	DAM 17.561	ROJEC	<u> </u>	DE	PTH OF HOLE 100.0 PTH OF OVERBURDEN 39.0	m COMPLETED	14 - 7 6 - 9	-1988 -1988
	IATE <u>?</u> ROM HOLIZO OF ANGLE		0, E	_	CC	RE RECOVERY 69.9	7 m LOGGED BY	DS JIC	
DEPTH ROCK NAME	CORE RECOVERY	CEMENTA- TION KIND OF BIT CASING	COLOR WEATHER	HARD. NESS		BSERVATION OF CORE DESCRIPTION	WATER TABLE	ATER ATER	ELEVATION
80m	0 + 100 _%						LUGEON	m on	452.029
ياسيلسيا					2		Lu=0 Pomax,=10.0 kg/cm²	8.00 2	
2 3 4 4	\ \ !				3	840m: Slickenside 60°dip.	Lu = 0 Pomar > 1010	\$05 in the state of the state o	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				3-4	844 84.4~84.7m: Piece~ 847 fragment cores, thin	Lu = 0 Po+as, = 10.0	երավայի 5 15 10	
2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				1 3 2	serpentine.	Lu=0 · Pomax = 100	8.00 E 6 8.00 E 7	
o Serialization harbandanding Periotite	>	e e	74			89.0~89.5m: Piece cores 89.0 no serpentine.	Lu=0 Pomai.=10.0	سرنسداسساسی	
S Limburhuri Peridoti		456 mm	Dark gray	2		89.5 '	Lu = 0	8.15 1	
) 1 1	·				,		Poinox. = 10.0 Lu=0	ահատահար	
2 3 4 1 4 1 1 1 1 1 1 1	>				s 2		Pomax = 10.0 Lu = 0	8.10 8.10	
9. 19. ביילטנילבני	>				i	95.6~96.0m core:	Poiner: = 10.0	արևարայիս անահարհան անահարհան	
27 Transferred	>					Laboratory test. 98.0~100.0m: Weak ser- 98.0	Lu = 0 Pomax = 10.0	8.00 8 8.15 E	
100 m 8 mm 11 mm	>1				3	pentinization. R.Q.D (Av.) = 53% 1000 End of drill hole	Lu=0 Pomax. = 10.0	8./OE 0	435,646
		- core loss		1811	1(2)	> driller's note 4 y bok), 2 (substick), 3 (piece), 4 (fragment), 5 grain	vater table after drilling	0.30	

transfer that consider a large state of the contract of the contract of the contract of the contract of the contract of

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	SATIO		MAINH TO DOLL OID	o. SK - 6 (SHEET 1 OF 5)
LOCATION	DAM.			00m commenced 11 - 8 -1988
ELEVATION X.	542.30	<u>35 m</u>	DEPTH OF OVERBURDEN 2,0	00m completed <u>1 - 9 -1988</u>
		'	LENGTH OF ROCK DRILLING 88,0	OOM DRILLED BY
ANGLE FROM HO		_90_		23 m LOGGED BY <u>JICA</u>
BEARING OF ANG	TE HOLE			1_%
T A AME	NG ON A	E V)	OBSERVATION OF CORE	WATER TABLE - N E S
OEPTH ROCK NAME LOG CORE	CEMENTA TION KIND OF BIT CASING	COLOR WEATHER ANG HARD- NESS	DESCRIPTION	WATER TABLE — V G
			5	LEARAGE OF DRILLING WATER
		1-1-1	Alluvium.	LUGEON 70 0m 542.365*
	20	Brown		l E
dulumburd	-490	I. I I N	0~1.5m: Sand and gravels	!
7	III 1	200	20 15~2.0m: Peridotite gravel	2.00 2 540,365
		1 1 1	4 2.3	Lu=(?0)
			Peridotite.	Pomax. = 3. 0
			2.0-9.5m: Many oxidi-	18g/cm²
4-		{	zation cracks.	-4
		!		Lu 7100
5 1		3 2	2 5.2 m: Weathered ser-	Pomax. = 3.0 2.00 = 5
			3 pentine Imm wide.	
			5 / Fundamental	Lu = (40)
7 / 1				Point = 5.0 6.50 7
				70 may - 0.0
8-				
				Lu=(63)
	XXI		7.5	Pomar. = 5.0
10- 3			10,2m: Serpentine In5	8.10 0
13 - 18	£		2 mm wide along horizonta	8.20
	38%	1 1 1 1	' Charl	
		3	3 .	Pomax. = 10.0
2-		1 7-1-1	- 120 11.8 m: Weathered set-	E-2
			Z Pentine Imm wide along	Lu=13.7
3-		1 1 1 1	60 dip crack.	Pomax = 10.0 12.00 3
			3 	
			7.10	.14.50//
5-3			/	Lu=5.1
		22	1	Pomox. = 10.0
6-			Z	<u> </u>
			16.9	Lu=8.6
1			2	Poinar. = 10.0 13.90
וואו ו וו				8
8-1			3 185	(
			$r _{\Gamma}$	Lu=0
			2	Pamax. = 10.0
201 1111	KM		Arifier's note 4	E 0 527.365
	B		1 (stick), 2 (substick), 3 (piece), 4 (fragment), 5 grain	water table after drilling - 0.30
1/3	core loss	1 (her	d) - 5 (soft)	water table 0.50 before drilling
	—— RQD	1 (fresh) ~	5(decomposed)	
			3 - 33	

			GO	KTAS				<i>)</i> (31		O. SK - 6 (SHEET	2 of	5	· •
LOCA	ATIO	N		DAM		201		DE		Om COMMENCED		- 8	-1988
ELE/	ATIC	M	Ę	14236 52.5/0.9 78.097.0	55		m			Om COMPLETED			-1988
					<u>_</u> _				NGTH OF ROCK DRILLING 880			SI	111111
			HOLIZO			90_	<u>.</u>		^^	23 m LOGGED BY		CA.	
BEA	RING	OF	ANGLE	HOLE						_ 20			
, x	NAME	G		¥ Zo S		l nx.	· ·	<u> </u>	BSERVATION OF CORE	WATER TABLE	√	죮	VTIOR
DEPTH	30CX	L Q.	CORE	CEMENT/ TION KIND OF BIT CASING	COLOR	WEATHER	HARD	ORE	DESCRIPTION	WATER PRESSURE TEST		МТӨЗО	ELEVATION
	¥				-	🔻	ļ <u> </u>	3		LEAKAGE OF DRILLING W		Om	, , , , m
20m			11111111 0 →100 [%]		<u> </u>	├	┼	-			m	5	\$22.365₹
		-						1	·	Lu = 0	15.50		1
1	۱	Y)						Pomar. = 10.0	15.50 18.50	1	
				}		•		1	·	1st/cm		2	
2-												4	
		•								Lu=0		3	
3-		V						,		Pomax = 10.0		ույր	
4-1								, i				4	
1			HAHA		ļ	ļ		2	,	Lu=0			
5-		V		1 1				2		Formur. = 10.0		E-5	
			HHH	1 1					·	180001			
6-				1							18.00	6]
7-11								ļ		2u = 0		Ē.,	}
7-3		V.				}				Pomax. = 10.0		<u>-</u> 7	Ì
1 4							}					8	
8-1			WW									E .	
9-1	v	V				}				Lu= 0		-9	
=	217	V		mm 98¢	9127	<u> </u>			28.9 29.9~30.3m: Frogrent	Pu mas. = 10.0		-	
30 miles	Peridotit	ти.		989	-X	2	2	4	29.9 cores, meshy serpenting		13.40 21.30	•	
1 4	- 4	,		<i>b</i>	Dark					Lu=0		Ē	
1-	Q	V						3	1~5mm wide (60°dip).	Pomar = 10.0		1	
] =	Ì					Ì		3~4	31.3 31.3~31.8m: Piece~			<u>-</u>	
2-3	Ì		HHA						fragment cores, meshy		† †	E 2	
1 1	İ					}		1	serpentine Immwide	Lu=0		3	
3-1		\vee		-				5	(70'~ 90'dip).	Pomex. = 10.0		E "	
4	[}	1	2	, , , , , , , , , , , , , , , , , , , ,		13.45	4	
"]								1	35.8~36.0 m: Piece cores.		16.00		
5-	}	\vee							no serpentine.	Lu=0 Pomax = 10.0		5	
1	ļ	Ť						[;	,	FOMON. = 10.0		E.] [
6-	ĺ	ŀ						Ĵ.	35.8 36.0			6	
4	ļ							!	36.0~36.5m core:	Lu=0			
7	Ì	\vee						コ	Laboratory test.	Pomox. = 10.0		7	
] =	Ì					1]		37.8 37.8~38.5 m. Piece cores	Famorie 10.5.	14.70	Ē.	
8-	Ì							3	38.5 no serpentine.		17.30	- 8	"
5 6 7 7 8 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	}								WING	Lu=0			
9-7	į	V						5		P. mos, = 10.0			}
40]							2	40.6			0_	502,365
ئەرىيىن _{خىسا} پ			N			1	1	1	p driller's no(t €	water table after drilling-	-10.30	è	
		i		→ core loss			Ι,,,	1 (s 1 - (hard)	, , , , , , , , , , , , , , , , , , , ,	water table	0.50	٠	5
			4						ompo seo)	before drilling	- "•		
				•				,	3 3/				

			ĞŌ	KTAS)GI	C LOG OF DRILL HOLE	IO. SK – 6 (SHEET	3 of 5	, .
LOC	ATIO	Ν.	[AM.				DE	PTH OF HOLE 90	Om COMMENCED	11	3 -1988
ELEV	/ATIC	ON	X. 4	42.36	55		m			OOm COMPLETED		9 <u>-1988</u>
COO	ROIN	DOM	<u> </u>	78.097.0 NTAL	7C	<u>.</u>			NGTH OF ROCK DRILLING 88 TAL LENGTH OF CORE 89	<u>00</u> m DRILLED BY _ <u>23</u> m LOGGED BY _		
				HOLE		~				<u>.1</u> %		1
					1			· · ·	BSERVATION OF CORE			z
HLL 30	OCK HAME	903	CORE	CASING	ĕ,	ű,	HARD. NESS	밅쑱		WATER TABLE WATER PRESSURE TEST	PEP	T.EVATION
Ö	Š	٠.	SEC 0	මු දුළුව	8	WEAT	FAR	SETTE	DESCRIPTION	LEAKAGE OF DRILLING WA		3
4 0m			0 → 100 _%							LUGEON	m (m 502365 ₹
1								2	40.7m : Serpentine linm	Lu=0	<u> </u>	
1-1		~					ļ.		41.0 wide along 70°dip crack	Poinax = 10.0	Ē.,	
		,							wide along to all clack	kg/cm²	E	
2-	:					1			÷		14.50 E 2 16.70 E	
1				1						Lu=0		
3-1		V	KKKK				1	1		Pomax = 10.0	£-3	
	·Ì	-	KAKA					١.			Ē.4	
"	•							′		Lu = 0	E.	
5-3		V						ſ		Pamax. = 10.0	5	
								2		7 amax 7010		1
1 2 3 4 5 6 7 7 8 9 9 9 9				£ !							14.50E-6 21.30E	1
				₩ 98¢				(1-0 0 1. 14 - 110 -	Lu=0	Ē.,	
7-		V		1				ŀ	47.9m: Calcite vein	Po max = 10.0	F-7	
Ē,]								less than Imm wide.		<u>-</u> 8	
"									\		E	1
9-	te te	V							,	Lu=0	<u> </u>	1 1
- 1	4		HIM		ŝ				•	Pomas. = 10.0		
50-	ide	7.			A 4	þ 2	2		50,0		14.50 0 14.50	
ما	Per			}	200		Ì	2			<u>.</u>	
17	7	V		ļ. }		١		_		Polnes. = 10.0	<u></u> [1	
	ļ						ţ	\$			14.50	
2-1						1	l	3			≥1.30	
3-1		V								Lu=0	E -3	
] -										Poinax. = 10.0		
4-				+					54.0		-4	1
5 6 7 8 8 11 11 11 11 11 11 11 11 11 11 11 11				1						Lu=0	£ 5	
5-7	:	V								Pomay. = 10.0	Ē	
	•	٧.									13.30 6 15.30 6	
"				a a				Z		Lu=0	12:30 E))
7-3		V		mu 924		1				1	Ę_7	1 1
=				18.						Poinax = 10.0	<u> </u>	
84											E-8	
"									⊁ 0 ∧	Lu=0	<u> </u>	
977		V]	7	59.0	Pomof. = 10.0	<u> </u>	
60					·			2			1450 0	482,365
			N. N			1	1	1	> driller's note ◀	Water table	امدم ل	
				-core loss) (i \ard}~	tick), 2 (substick), 3 (pieca), 4 (freqment), 6 grain	water table before drilling	0.50	
				- ROD		1			omposed)	perore drilling	- 1	

LOCA	IOITA	<u></u> -		KTAS AM)JE(<u> </u>		PTH OF HOLE	90.0	O. SK - 6 (SHEET	<u> </u>	- 8	_1988	}
ELEV	VATIC	N	X. 4. Y. 4.1	342.5 52.576	<u> 36</u>	5	r	n		PTH OF OVERBURDEN		Om COMPLETED	<u> </u> -	. <u>9</u> SI	-1988	Ž
000	RDIN	ATE	- Ŷ. 4.	78,097	oż.		· ·	•		NGTH OF ROCK DRILLIN		Om DRILLED BY 23 m LOGGED BY		CA		-
			HOLIZO ANGLE				<u>'U</u> _	-		TAL LENGTH OF CORE RE RECOVERY	99.					-
BEA	KING	Ur .	MINGLE	L								<u></u>	т			1
ı,	NAME	ø.	<u> </u>	Éző :	ا پ		o:	ia	0	BSERVATION OF CORE	•	WATER TABLE	√	E	NOT	
ОЕРТН	SOCK N	0	CORE	CEMENT/ TION KIND OF		ROY	A'HE ING	HARD. NESS	S E	DESCRIPTION		WATER PRESSURE TEST	· .	HTHE	ELEVATION	l
	8			0		ŏ	χ.	ž	8			LEAKAGE OF DRILLING W	ATER			1
60m			0 →100 _%		_							LUGEON	m 2/00	0ml	482.365 [™]	1
1 1			WW		İ	I						Lu=0	27.00	- 1		
1	{ {	V				ĺ						Į.		-1		
		v				İ						Powax = 10:0 kg/cm				
2			KKKK I			i								2	-	
			WWW		- [-		l
3-		V	KKKKK						[Lu=0		~3		l
		·			- (ļ			Pomax = 10.0		-		l
4-														4		l
									ļ							
5 -		V	HHH]				Lu=0		-5		
1		٧	KKKK)					Pomax = 10.0				
6-			WW]					14.00	-6		
]				Lu-0	14,00	<u> </u>		
7.		V	иии			j				67.1m : Calcite	vein and			-7		
]]		v			1							1 - 12/1001		<u> </u>		1
8			WW.		1	Ì			[serpentine less	CERTI LEGG	<u></u>	} ·	8		١
										wide (50°dip).		Lu=0				1
1 1 2 3 4 4 1 5 6 7 8 9 7 7 1 1 2 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Q.	· //	YYYY									i		9		١
1	Peridotite		WW	476 mm		2	2		1			Pamas = 10.0				1
70-	20			120		4	2	2	ſ			<u> </u>		0		1
1	i,		MAN.	4		Sar			2			Lu=0).	-	-	
1 1	S	V				7]	2			!	1	-1		1
]]			ИИИ		١							Pamax = 10.0				l
2-					1			}					20.00	-2		1
			KKKK		- 1	-		}	}	*		Lu=0				
3-		V			-)		-3		١
1			WW		1	ļ				_		Pomar. = 10.0		1	-	
4-					1							<u></u>		-4		1
4						Ì						Lu=0				
գ 6 6		V				ł						Pomax. = 10.0	:	-5		1
4			KKKKI				- 1					/ OMOX. ~ 10.0			-	١
6-4						Í	ļ						†	-6	-	1
=	}				1	(Lu=0		<u>-</u>		1
7-1		V	KKKKI			İ						Pomox = 10.0		7		
4					-							Formos ~ /U.U		: 1		1
8-3													14.50	-8		
4						ļ						Lu=0			-	1
9-7		V	KKKKII							•			.	9		
[4						{						Pomax. = 10.0		0	415 51 P	
8 ₀ 1			MAN	<u></u>		أ		1	L	▶ driller's note ◀			لــــا		462.365	٠.
									1 10	tick), 2(substick), 3(piece), 4(fragment	, 6 grain	water table after drilling	0.30			
			in KJ	core 1055			[1. 1.0m	ard) (itsoft)		water table before drilling	0.50			
			t	~ ROD			1	(fresh)	- 5(dec	omposed)		. 17				٠.

GEOLOGIC LOG OF DRILL HOLE HOLF NO. SK - 6 (SHEET 5 OF 5

and the second of the control of the control of the control of the control of the control of the control of the

LOCATION ELEVATION COORDINATE X	LIZONTAL <u>90</u>	DEPTH OF HOLE90.0	OOm COMPLETED 1 - 9 -1988 OOM DRILLED BY DS1 23 m LOGGED BY JICA
	RECOVERY CEMENTA- TION KIND OF BIT CASING COLOR WEATHER .ING HARD.	OBSERVATION OF CORE OBSERVATION OF CORE OBSERVATION OF CORE	WATER TABLE — WATER PRESSURE TEST BY LEAKAGE OF DRILLING WATER
Section of the sectio		86.5m: Meshy serpentine	LUGEON M OM 462.365 Lu=0 Pomex = 10.0 Ky/cm² 14.50 = 2 21.30 = 3 Lu=0 Pomax.= 10.0
գ	core (oss	> driller's note 4 1 (stick), 2(substick), 3(piece), 4(fragmant), 5 grain 1 (hard) ~ 5(soft) (sah) ~ 5(decompose)	Water table 2.30 water table before drilling

)

	GO	SAT	PRO.	ECT			O. SK-7 (SHEET		
LOCATION		MAC				EPTH OF HOLE 80.0			
ELEVATION		603.68	<u> 7</u>	m		EPTH OF OVERBURDEN O	m COMPLETED	6-10	_1988
COORDINA		\$52.439.6 178.108.3	2			NGTH OF ROCK DRILLING 80.0		DSI JICA	
	OM HOLIZO		60			TAL LENGTH OF CORE $\frac{80.0}{100.0}$		UIUE	<u></u>
BEARING (OF ANGLE	HOLE IA	<u> </u>	YY	. GC	DRE RECOVERY 100.0			,
¥ N		. v	<u></u>		, (DBSERVATION OF CORE	WATER TABLE	V- -	ě
DEPTH SOCK NAME	CORE	KIND OF BIT CASING	8 3	ខ្លួ	F 5	DESCRIPTION	WATER PRESSURE TEST	VEPTH	ELEVATION
8 8	7 J 29	8 3200	COLOR	ING HARD: NESS	S S S S S S S S S S S S S S S S S S S)	LEAKAGE OF DRILLING WA		ᇳ
0m	0 → 100,	<u></u>	1	_	 		LUGEON	m On	603.687
1-1-		1			3		a do V over flow a	· · · · · · · · · · · · · · · · · · ·	
	PARILIII			•	1	No surface soil.	Lu: (17)		
13	V腕川				4	13 Peridotite.]		
	lkkki))						Pomax = 3.0 Kg/cm²	1.00	
2-3	lkkk			Ì				1.00	
	HHAAA]			Lu=(22)	E 3	
3-4				ĺ	ļ	4.1m: Oxidization crack	PSIRAX = 3.0	[· E	
	HAHA		1 1	ĺ	ĺ	1			
4-4				ļ		ktodip.		F 4	·
	1111111			- 1		4.3 m and 4.5 m: Serpen-	Lu=(9)		
5						tine Imm wide along 0'~	Pomay. = 5.0	5	
				(, v	70%-91	3.00	
6-3	1000	j		ļ		15' dip cracks.		3.00	
		+		-		(to drilling direction)	Lu=(5)		
7				.	1	,	Poinox = 5.0	1-7	
				- }		6.1m : Serpentine Imm	/ 6/HOX. = 3. U		{ }
8-3	HHHH	4	2	2 2	1	wide along 15° dip crock.		E-8	[
=		1		į	2	,	Lu=0		
94 61		1 1	>	ļ	}	·	Pomax = 5.0	E-9	ł .
4 4			3124				700000	3.60	} · }
Peridotite	KKK	тш 98¢	×	1				6.30	1
1 3		8	Dark	}			Lu=0		
Peridotite		1		ļ			Poinax. = 10.0	E-1	
1 = 1	MAKK	1		}			7	Ē	
2-3	HANA	1		1				-2 E	
1 - 1		1			}		Lu=0	<u> </u>	
3-							Pomax. = 10.0	- 3 -	1
				Ì				6.95	
4-))						6.85	1
				1	Ì		Lu=14	·	
5~]				Ì	Ì		Pomax = 10.0	5	
]		100,000		
6-3]			-6	
]]			[Lu=2.6	<u> </u>	
7 -							Po max. = 10.0	<u> </u> -7	
1 1	HHHH					I A LAT A.L.	1 ' ' 1	., 3/1Ē	
2		1 1	-		 	18.0 18.0 - 19.5 m = Oxidizatio		15.34 8 17.00 8	
				2	5	cracks, weak setpen-	Lu=13.0		
9-1				3 3	3	tinization.	Pomed = 10.0	E-9	
1			-		-	19.5	romex ro.v	E _	112 104
20]	KAN	<u> </u>		2 2	2		<u></u>	<u> </u>	586.366
	1 1	}			1	 drillar's note 4 stick), 2(substick), 3(piece), 4(fragment), 5 grain 	vater table after drilling	0.30	
	M	— core loss	į	[,	1 (: (herd	•	yater table before drilling	1 0.00	
	4	— RQD	i			composed)			
				•					

LOCATION ELEVATION COORDINATE ANGLE FROM HOLIZ	KTAS PROJECT DAM 503, 687 m 452, 439, 67 ONTAL 60 HOLE N 25° W	DEPTH OF HOLE 80.0 DEPTH OF OVERBURDEN 0 LENGTH OF ROCK DRILLING 80.0 TOTAL LENGTH OF CORE 80.0	m COMPLETED 6-10-1988 Om DRILLED BY DS1 Om LOGGED BY JICA
DEPTH ROCK NAME L O G CORE RECOVERY	CEMENTA - TION KIND OF BIT CASING CCA.OR CCA.OR WEATHER HING	OBSERVATION OF CORE SS DESCRIPTION DESCRIPTION	WATER TABLE
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	486 mm	27.0 27.0~27.5 m and 28.0~ 3 17.5 28.5 m: Piece cores, 28.0 no serpentine. 2 30.6 30.6~31.0 m: Piece cores. 3 31.0 weok serpentinization. 2 35.0~36.0 m: 80°dip crac with thin calcite vein 36.5~37.0 m: Piece cores.	LUCEON IN OM 586,366 TO 15.00 LUCEON IN OM 586,366 TO 15.00 LUCEON IN OM 586,366 TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LOCAL TO 15.00 LUCEON IS.68 LUCEON IS
5 Truntum tum tum tum tum tum tum tum tum tum	φ76 mm	no Oxidization crack. 36.6 m: Slickenside	Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 0.00 0.
		1 (stick), 2 (substick), 3 (piece), 4 (fragment), 5 grain	after table after drilling 0.30 (ater table before drilling

				um L A			, L .,	<i>,</i>	O COO OI DIVICE	(3		
سمين					PR	OJE	<u>GT</u>		~ ~ ~	Om COMMENCED	23 23	4	_1988
LOCA	ATIO	4	k) <u>AM</u> .03.68	7		_ ·		PTH OF HOLE 80.0 PTH OF OVERBURDEN 0	m COMPLETED	6	- 10	-1988
COO	ALIGA MICIA	ATF	\$, 4	03.68	ż		44		NGTH OF ROCK DRILLING 80,0			SI	1000
ANG	LE F	ROM	HOLIZO	NTAL	-6	0	•		TAL LENGTH OF CORE 80.0			ICA	
				HOLE N	25	·W	_	CO	re recovery 100.0)_%	1		
	쌜			٠. د				C	BSERVATION OF CORE	WATER TABLE	Λ		5
DEPTH	OCK NAME	0.0	CORE	CEMENT/ TYON KIND OF BIT CASING	శ్ర	ä o	SS	3 S	#500D(87(0))	WATER PRESSURE TEST	V	оертн	ELEVATION
ត់	ő	_	ဝဋ္ဌ	මූ දුළුව	COLOR	WEATHER	HAR	CUTTING	DESCRIPTION	LEAKAGE OF DRILLING W	ATER	0	373
4 0m			0 →100 _{gg}			 	 			LUGEON	m	0 m	569.046
										1		E	
						1				Lu=0		1	
'		V						2	. •	Pomax = 10,0		المريد	
3						}			42.5~44.5m: Thinser-	िस्तु । विकास	0.00	2	
1									42.5 pentine along 70-80°	Lu · O	2.00	E- :	
3-		V					2	Ì	dip crack.	Pamax = 10.0	} }	E-3	
] =		!	HHH				/	3	,]	<u> </u>	
4		!	WW I			ļ	Ì		بخدينيك والمسادأ سدر			-4	
5/11							ļ	2	44.5 45.0~ 45.6 m : Serpentin	Lu = 0		-5	
5-1		V					ļ	3	I mm wide olong to dip	Pamak = 10,0			,
		1						-	as.b crack.			6	
, ,		!						2		1 . 5	0.00		·
7-		V							47.1~47.4m: Calcite			7	
							3	3-4	47.4 vein 2~3 mm wide, Set-	Ponex = 10.0			
8-		ALL)							pentine limin wide and		!	-8 E	
9 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	}								tale less than Imm wide	Lu=0		E	
9-	16	Y		2	2	+			Meshy.	Pomex = 10.0		E9	
=	240			<u>mm</u> 9.∠¢	ŝ	2]	· iciny	,	0.00		
50-	'id			4	740						0.00		
1	S	♡ .				1] ,	47.9~51.5m: Serpentin		(E_1	
(']		¥,							linn wide along many	Pomax. = 10.0	{ .!	-	[
2-	ļ								cracks.		}	E-2	. [
1	}	;								Lu= 0	} !	E .	
3	ļ	V					2	2		Pomax = 10.0	}	3	
1	{	•	HALL				İ			1.0 max = 10.0	0.00	<u>-</u>	j
4 =						!					0.00	-4	
=	j	each !	HHH						54.8m: Serpentine Imm	Lu=0		Ē.	
5-3	}	V]	wide along 40°dig crack.	Powak = 10.0]	-5 -]]
	Ì								<i>d</i> ,]	-6	
6-	ĺ	Ī	HHA						67 Sur . Wat	Lu=0			
] , [ĺ	\ /				ļ			57.2m: Meshy serpen-			E-7	
']		У.							tine Imm wide.	Pomax = 10.0			
2 2 1 1	ļ	ا سيم							58./m: Serpentine hom		0.00	8	
	ļ								wide along 30° dip crack.	Lu=0	0.00	E.	
9	ļ	V							<i>q</i>			9	
=	ļ					ļ				Panax = 10.0		E. 0	551.725
60∄		-				-	-	<u> </u>	▶ driller's note ∢	ater table		<u> </u>	J-21.123
								ļ 1(s	uck), 2(substick), 3(piece), 4(fragment), 5 grain	ater table after drilling ater table	0.50		
			124 VE	core loss			10	nard) ~ !		before drilling			
			L	- ROD		•	(fresh)	~ 5 (dec	omposed)				

			GOK	TAS	PR	OJE	CT). SK - 7 (SHEET			
LOCA				AM			- :		PTH OF HOLE 80.0				<u>-1988</u>
ELEV	ATIC	ŅΝ		03.68	3 (57		<u>m</u>		PTH OF OVERBURDEN 0	m COMPLETED			_1988
				52 439 18.108.)NTAL	<u> </u>	0	_		NGTH OF ROCK DRILLING <u>80,0</u> ITAL LENGTH OF CORE) <u>SI</u> ICA	
				HOLE N			-		RE RECOVERY 100.C			ı ya	L
1			, ((\CL	r]				BSERVATION OF CORE				
물	ROCK NAME	907	RE VERY	A NO ON	-	8	92	1	BOLITATION OF GOILE	WATER TABLE	√	7.	ELEVATION
DEPTH	ğ	رد	CORE	CEMENTS TION KIND OF BIT CASING	COLOR	WEATHER	HARD.	CUTTIN	DESCRIPTION	WATER PRESSURE TEST	4750	DEPTH	EL EV
			0 ⇒ 100 ₄₆		1	3	<u> </u>	- 5		LEAKAGE OF DRILLING W.		~	
60m			หเหเหม		 		-				m		551.725 ₩
		***				İ			60.3m: Serpentice Imm	Lu-0		1	
1 1		V				Ì]		· ·	Pomax = 10.0		1	
		١.					1		wide along 30° dip crack.	149/cm	0.00		
2-7	Í							[62.7m: Serpentine /mm		0.00	_2 	
								· 	wide along 10° dip crack.	Lu=0		į (
3-1	- [V						2	V .	POHAX = 10.0		-3	
]]							}	-				E. 4	
[*]			HAHA									<u> </u>	
			HHH							Lu = 0		5	į į
]		ν							<u>.</u>	Pomax = 10.0			
9 d	j							Ì	·	 	0.00	6].
1 1	1				1	1				Lu=0	0.00		
7-		\mathbf{v}^{\parallel}										7	\ \
	1	•					1		67.5	Pomax = 10.0			
8	. {										4	8	
1 1			1001					,		Lu=0			
9-7	્ય	V		8	١.			′		Pomax = 10.0		9	
=	47	1		ww 91.¢	gray	†		1		/ omax,~ 10.0			
70-	de	• 1		10	1	1 A	2	2			0.00	-0	
) =	(0)		HHH		Ork			Ì		_ Lu = 0		<u> </u>	}
1-3		\vee							·	Pomex. = 10.0	1	1	
=	1					<u> </u>					1		
2-4	İ				1				72.0			-2	
1 4	- (.					·	Lu=0		,	
3-3	j	*		.					73.1 m and 73.7 m: Ser-	Pomax = 10.0		3	
=	ļ				1				pentine Imm wide along		0.00		
47		1							70°dipemek.	·	0.00	, 	
"									7	Lu = 0		5 5	
["	Ì	~]								Pomax = 10.0			
1	}							2		· · · · · · · · · · · · · · · · · · ·		-6]
"])							<u> </u>	_	1
7.5		V		}						Lu=0	1	7	}
'∄		٧				}				Pomax = 10,0		E -	1
8 8 2 4 Marchael	ij		HHH	,							0.00	E 8	
1		- }	HHH							Lu=0	0.00	Ę.	
8		V		-					R.B D (Av.) = 9/%	Paniox. = 10.0		-9	
[, 4	İ	Ť		· 1						1 2OX 10.0		Ē	
803			MAN		l		1		800 End of drill hole		0.00	F O	34.405
•				pt e e		1	-	1,,	tick), 2(substick), 3(prace), 4(fragment), 5 grain	ater table after drilling	0.30		
		į	M KA	- core loss			10	nard) ~	. γ	vatar table before drilling	1 5.55)	
			Ĺ	~ RQO			(fresh)	~ 5(de	composed)				

ELEV COO ANG		X.	ORACE 631, 35 173, 237, 3 ONTAL	8 i	JN	EL	DE LE TO	PTH OF HOLE 90.0 PTH OF OVERBURDEN 3.0 NGTH OF ROCK DRILLING 87.0	O m COMPLETED O m DRILLED BY O LOGGED BY	4 8 - D	5 6 (S)	1988 1988
ОЕРТН	ROCK NAME	CORE	CEMENTA- TION KIND OF BIT CASING	COLOR	WEATHER	HARO. NESS		BSERVATION OF CORE DESCRIPTION	WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING W		рЕРТН	ELEVATION
e malitarilandani	Alluvium		- 490ma	Giray brown				Alluvium 10 0.0~1.0m: Dark brownish 5011 and gravels. 1.0~3.0m: Gray limestone g		7.00 7.00		63/.357♥ 628.357
3 4 8 8 6						**************************************	3 2	3.4 Gray, hard limestone. 3.9 There are oxidation zon 5.0 in the fissures. 3.9~5.0m: Vertical 60 solution crack.	Lu=(85) es Pomax = 3:0 es/cm² Lu=(54) Pomax = 5:0		5 6	
							3	85 95 9.5m: Calcite Vein Icm	Lu=(75) Pomax.= 5.0	5.75 7.00	-7 -8 - -9	
1 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Limestone		ww 98¢	Gray	3	2	1	wide tilled solution cra 45° dip. 11.5m: Solution crack with clay moterial,	Lu=65.0 Roman = 10.0 Lu=55.0 Pomox = 10.0		-0 -1 -2	
3 4							2	13.0 70°dip. 14.5 15.5~16.0m core : Laboro	1	9.14	-3 -4 -5	
84 2 مالىيىلىيىلىيىلىيىلىيىلىيىل							3~4 1 5	tory test. 16.0 16.0~16.5m: Horizontal 16.6 cracks 5cm interval.	Lu=58,0	16.00 16 00	-6 -7 -8	
20 J					2 - 3	2	1 1 2	18.8 18.8 m : Solution crack 70° dip.	Pomax = 10.0 Lu = 55.0		-9 0	811.357
			– core loss – ROD				ard) – !	► druter's note 4 uck), 2(substick), 3(piece), 4(freqment), 5 grain ((soft)) omposed)	Water table after drilling— Water table — before drilling	0.30		

	л <u>х</u>	DRACE 631, 35 455,757,9 172,232,9 INTAL	90	EL m	DI LE TO CO	PTH OF HOLE 90.0 PTH OF OVERBURDEN 3.0 INGTH OF ROCK DRILLING 87.0 DTAL LENGTH OF CORE 99.4 DBSERVATION OF CORE	O m COMMENCED O m COMPLETED O m DRILLED BY O m LOGGED BY % WATER TABLE WATER PRESSURE TEST	8 [V-	5	<u>-1988</u> <u>-1988</u>
20m	0 +100		- ¥	7	ರ		LEAKAGE OF DRILLING W	YTER	0m	616357 °
			2 1 3	2	3	21.9 23.0 ~ 24.5 m : Piece core 7cm interval cracks, 70° dip.	Pomax = 10.0 Forox = 10.0 Lu = 60.0 Lu = 45.0 Pomax = 10.0	20.55	1 2 3	017-314
1 2 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					2	25.0 25~90m (End of drill hole): More meshy calcite veins. 26.5m and 30~32m: 28.0 Calcite vein rich.	Lu=340 Po max = 10.0 Lu=240 Pomax = 10.0	22.60 22.60	5 6 7 8	
O Juniori Indianional		φ86 mm	Gray	2	2 / 5 2	29.0 28.0m: Brownish weat cred zone 4cm wide, 15° dip. 31.0 31.7m: Oxidization crack 1mm wide, 70° dip	h- Lu=13,0 Pomox, = 10.0 Lu=6.5	28.70 29.00	1	
3-1-1			2 1 3	2	2	38.5 39.0m: Oxidization crack along calcite ve	Lu=2,1 Poxox. = 10.0 Lu=12.8 Pomox. = 10.0 Lu=8.9 Pomox. = 10.0	30.75 30.75	6 7 8 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
40				1	<u> </u>	40.0			0	591.357
		core loss			rezd) –	b driller's note 4 stick), 2 (subspick), 3 (piece), 4 (fragment), 5 grain 5 (soft) scomposed)	water table after drilling— water table before drilling	0.30		

BOCK NAME	6	CORE RECOVERY	CEMENTA - TION KIND OF	COLOR	WEATHER ING	HARD. NESS		RE RECOVERY 99.4 BSERVATION OF CORE DESCRIPTION	WATER TABLE	*	ОЕРТН	ELEVATION
4 `	Limestone (bituminous)		uu 98¢	Dark gray	2	2 , 3	1	40.0 ~ 57.0 m Limestone (bituminous): 40.0 m · Solution crack with clay material. 46.85 ~ 47.0 m core : Micro scopic observation.	Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0	35.45 35.45 35.45 37.30	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	591.337 [™] 574.357
ساسر	imestone			Gray	2 1 3	2	1 1 2	Gray, hard limestone. 57.5m: Solution crack 70° dip.	Lu=0 Pomax = 10.0 Lu=12.7	33.00 31.25	8 9 9 9 milion	

LOCATION HEA	631.3. 453.751.9 172.232.9 ONTAL	PROJECT TUNNEL 57 m	DEPTH OF HOLE DEPTH OF OVERBURDEN LENGTH OF ROCK DRILLING & TOTAL LENGTH OF CORE CORE RECOVERY	E No. TB - 1 (SHEET 4 OF 5) 90.00 m COMMENCED 4 - 5 -1988 3.00 m COMPLETED 8 - 6 -1988 37.00 m DRILLED BY DS 1 39.50 m LOGGED BY JICA
DEPTH ROCK NAME LOG CORE	CEMENTA - TION XIND OF BIT CASING	COLOR WEATHER ING HARD.	OBSERVATION OF CORE DESCRIPTION	WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WATER
O 100%	φ8 <i>ξ mm</i>	2 · 3 2 2 · 3	60m: Small cavities rich. 2 62.0m: Calcite vein 62.0 wide filled solution crack. 63.5 62.0~69.0m: 4 65.2 Many solution crawith clay materia 2 63.5~65.2m: Fragmateria cores caused by two direction solution 69.0 2	Icm $Lu = 29.0$ $Lu = 29.0$ 57.20
Limestone (bituminous)		Dark gray N N W - N	75.0 ~ 90.0m (End drill hole): Limes 77.0 (bituminous). 1 1 2 Addier's note 4 1 (asick), 21substock), 21substock), 4(fragment), 5 green	Formax = 10.0 Lu = 0 Pormax = 10.0 S840 S6.40 Lu = 0 Water table after drilling = 0.30

ELEV COOI ANGI		x	RACE 631.35 455.751.9 172.232.9	8		L	OE LE TO	PTH OF HOLE	O m COMMENCED O m COMPLETED O m DRILLED BY O m LOGGED BY		-1988 -1988
БЕРТН	ROCK NAME	CORE	CEMENTA. TION KIND OF BIT CASING	COLOR	WEATHER	KARD NESS		BSERVATION OF CORE DESCRIPTION	WATER TABLE — V WATER PRESSURE TEST LEAKAGE OF DRILLING W	ATER LA 30	ELEVATION
8 0 1 2 3 4 4 2 5 6 2 1 8 9 0 1 2 3 4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Limestone (bituminous)		ww 78¢	Darkgray While Dorkgray	2	2 3	1 1 2	83.9~844m core: Labor tory test. 84.7~84.9m core: Micro scopic observation. 85.2~86.0m: Calcite 85.4 vein rich 85.6 85.4~85.6m: Oxidization calcite vein, fragment cores. R.O.D (Av.) = 86%. 90.0 End of drill hole	Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0	m 0 m. 1 1 2 5 6 6 7 7 8 9 9 0 57.76 59.70 59.70 8 9 0 0 53.50 59.70 8 58.30 63.50 6 3.50 6 6 3.50 6 6 3.50 6 6 3.50 6 6 3.50 6 6 3.50 6 6 6 6 7 7 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5/1.357 [™] .
			cora loss RQD		1 (fr		rd) ~ 5	icki, 2(substick), 3(piece), 4(fragment), 5 gráin issoltí omposed)	Waler table before drilling	0.50	

ANGL	NTION DINATE E FRON	HEAL X 4 HOLIZO		90	EL DE m DE LE	ртн ог носе 1	81,20 m	COMMENCED COMPLETED DRILLED BY	10 - 19 -		-1988 -1988
		T	[] .			BSERVATION OF CORE		ER TABLE		$\overline{}$	z.
ОЕРТН	ROCK NAME	COKE	CEMENT TION KIND OF BIT CASING	COLCR WEATHER	HARD. NESS CORE CUTTING	DESCRIPTION	WAT	ER PRESSURE TEST KAGE OF DRILLING W	TER	ОЕРҮН	ELEVATION
Om		0 +100%						LUGEON	m	0m	740.076₹
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25		\$90 mm	, Sarah		Non-coring 45 5.0 Massive limesto Non-coring			2.50 2.50 4.00 4.00 9.00	3 4 5 6 7 8 9	
مارسانسانسانسانسانسانسانسانسانسانسانسانسانس	7			Dark gray 61		10.0 Limestone with Si layer Icm thick o 9.75m. Non-Coring 14.3	î		9.50 10.00	3	
0 6 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	57		ww 78¢	Endy		Non-coring 19.5 200 Massive limesto	116		8.50 14.50 9.50 4.50	6 7 8	120.076
			– core loss – ROD		1 (a 1 (hard) ~: (fresh) ~ 5 (dec		nieri natau/	table r drilling table re drilling	0.30 0.50		

LOCATION ELEVATIO COORDIN ANGLE FE	ON ATE ROM	X. 4 Y. 4 HOLIZO	ORACE 740.0 168.825.8	TU 76 18 9	NN NN	EL.	DE LE	PTH OF HOLE 190.0	O m COMMENCED m COMPLETED O m DRILLED BY O m LOGGED BY	19 - (5	<u>-1988</u> -1988
	Т-Т						-	BSERVATION OF CORE		Λ T		ž
OEPTH ROCK NAME	D 0 1	CORE RECOVERY	CEMENTA TION KIND OF BIY CASING	COLOR	WEATHER ING	HARD, NESS	CORE	DESCRIPTION	WATER TABLE	ATER	рертн	ELEVATION
20m		0 + 100 ₉₅							LUGEON	m	0m	720.076₹
سراسيل سلسيان								Non-coring		.5.00 12.50	-1	
ع مارسارسائسار سارسارسائسار								24.5			-3 -4	
25 27				Gra				zs.o Massive limestone Non-coring		5.65 6.50	-6	
9 2 1,000(0004)000400040											-7 -8 -9	
30 miles de 27			486 mm	→ 040			-	29.5 30.0 Massive limestone Non-coring		8.00 28.00	-0 - - -1	
2 2 3 3 4 4 4								· .			-2 -3 -4	
90	ⅎℲ			\$				345	-{		-	
57 67				\$	_			33.0 Mossive limestone		6.50	-5 -6	
ه 2								Non-coring			-7 -8	
1 1 1	-	<u> </u>		Gray	>_	 		39.5	-	7.00	0	700 074
401 ×3			- core loss	<u> </u>	1		1 (si vd) - :	40.5 Massive limestone p-driffer's note 4 ick), 2(subsuck), 3(piece), 4(fragment), 5 grain i(soft) omposed)	water table after drilling water table before drilling	0.30	<u>~~</u>	<u> 700.076</u>

and and the state of the state of the state of the state of the state of the state of the state of the state of

100				STAS					10. TB - 2 (SHEET) (SHEET)			
	ATIO VATIO	•	11-0	740.0	76	m	0	EPTH OF OVERBURDEN O	m COMPLETED	19 -	7	-1988
COC	ROIN	ATE					LI	NGTH OF ROCK DRILLING 190.0				
				NTAL)		OTAL LENGTH OF CORE 81.2 ORE RECOVERY 81.2 410 = 89.2			LCA	
FF/	RING	OF	ANGLE	HOLE					%		·	·
l E	YAME		îĒ ÆRY	A S S	. 9	5		OBSERVATION OF CORE	WATER TABLE	V −	ОЕРТН	ELEVATION
DEPTH	TOCK NAME	0 7	CORE	CEMENTA TION KIND OF BIT CASING	20108	ARD -	CORE	DESCRIPTION	WATER PRESSURE TEST LEAKAGE OF DRILLING W	ATED	059	ELEV
400			0 -> 100 _{qc}		- 3				LUGEON	m		700.076₩
4 0					+	\dashv	+			33.00		100.016
1						}	}	Non-coring			<u> </u>	
2-						İ	{	won coming			-2	
						İ	1 (-	
3-	1								·		-3	
4-							-					
4-	.	-					Ì	44.5			-4	.]
	Ŋ	7			है			50.0 Massive limestone			-2 -3 -4 -5	
5-		=-			-45						-5	
		·					.	1			-6	
] "]												
8							1	Non-coring		7. <i>15</i> 7.30	-7	
] =										7.50	<u> </u>	
8						ł					-8	
							- [_	
9-				Ş.		1]	49.5			-9	
	S		111111	mm 98¢	S C	_	\top	50.0 Massive limestone			9	
50-	,			19	C							
1-							ļ			[-1 -2	
2-		<i>;</i>					ļ				-	
2							}	Non-coring			-2	
- 1	1 1										: -	
3	:					ļ				10.50 36.70	3	
											-	
4-								54.5			~4	
	Ŋ		******		Gra	1		55.0 Massive limestone]		-5	
5-		- 1			9	\top	1					
8.3											6	
7-											<u>.</u>	11
7								Non-coring			-7]]
	- :	ļ						4			<u>-</u>	
8-	1 1	-				į				1 1	-8	{ {
				.			į	1		33.00		
9-					J			59.5	1	38.50	9	
6.	S]	11111111		3	_		60.0 Massive limestone			. 0	680.076
لنسائني						1	•	> drifter's note 4	Water table after drilling	0.30		
		ļ				[[stick), 2(substick), 3(piece), 4(freqment), 5 grain	Water table before drilling	- 0.50		
			<u> </u>	cora loss ROD		1 ((***	1 (hard) - na) - 5(d	· S(soft) rcompressol	osions unitities			
						. ,						

		KIAS					No. TB-2 (SHEE		
LOCATION	HEA!	DRACE 740.0	<u>TUN</u> 76	NEL		PTH OF HOLE 190.0	m COMPLETED	10 - 3 19 - 7	-1988
ELEVATION	TE Y 4	60.825.8	8		LE	NGTH OF ROCK DRILLING 190			
ANGLE FRO	OM HOLIZÓ	NTAL	<u>90</u>)	ŤĊ	TAL LENGTH OF CORE 81.	20 m LOGGED BY	UIC	<u> </u>
BEARING (OF ANGLE	HOLE			CC	RE RECOVERY 81.2410 = 89.	2_%		
, WE		ένου Ένου		 -		BSERVATION OF CORE	WATER TABLE	/ ;	NOT
DEPTH ROCK NAME	CORE RECOVERY	CEMENTA TION KIND OF BIT CASING	COLOR	ING HARD. NESS	SE SE	DESCRIPTION	WATER PRESSURE TEST	. (0	ELEVATION
	l l	8	0 3	Î	3		LEAKAGE OF DRILLING V		
60m	0 → 100,				 		COGEON	m on	\$80.076₹
								լ	
1=									
1						Non-coring		2	
2-1				j					
3								E-3	
1				[E E	
4-3			1					E-4	
10			3		-	64.5 650 Massive limestone		3 4 5 Մասևականական	
5-3-3-	 		1	-}-	†	83.0 MISSIVE TIMESTONE		1 15] [
- Internal		, ,						32.00 6	
6-1		}						56.50	1
7-1				1		Non-coring		E-7	
, all									
8-			}					E-8	1
=		}	}					<u> </u>	1
9						69.5		} E-9	1 1
- 0	<u> </u>	\$8¢ mm	3	_	† 	70.0 Massive limestone		E	.
70	-	484	0		1				1
								26.40	
								28.00	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Non-coring		-2	
4						/			1
3-							ĺ	3	1
				ļ				-4	
4-1						74.5		1	1
. 3]- 		2/2			75.0 Mossive limestone		5	
5									
8-3				-		·		27.00 6 59.50	
4		}		1	}	Non-coring			
7=				1	}	j		F-7	.]]
									-
8-1					-		1	E-8	1
4									1
9-7	Ш					79.5			
80 9	FIIIIII		100			80.0 Massive limestone		12650 0	660.076
	1 1	j		† †	1	▶ driller's note 4 stickl, Z{substickl, 3{piece}, 4{fragment}, 5 grain	Water table after drilling	0.30	
		— come loss			1 ((hard)		Water table before drilling	10.50	
	<u> </u>	— AOD)		composed)	•		

		KTAS				IO. TB-2 (SHEET		
LOCATION			TUNN			OMMENCED		
ELEVATION COORDINATE	e X	740.0 160.325.8 168.653.5	/6 п !8		PTH OF OVERBURDEN ON ONE OF ROCK DRILLING 190.C	m COMPLETED		<u>-1988</u>
ANGLE FROM						m LOGGED BY		
BEARING OF				CC	RE RECOVERY 812410 = 89.2	2 %		
	T .				BSERVATION OF CORE			z
DEPTH SOCK MAME	CORE	CEMENTA THON KIND OF BIT CASING	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 m 2		WATER TABLE	DEPTH	ELEVATION
8 8 ~	8 8	9 399	COCC VEATU	NESS CORE CUTTING	DESCRIPTION	LEAKAGE OF CRILLING W		9
8om	0 ÷ 100 _%					LUGEON	mo uk	660.076
							27.00	
				Ì			[E,]	
					Mon-coring			
2-					7		-2	
				}			E-2	1
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					·		F-3	İ
							28.00	}
4-					845		68.00E	
1			3	_	85.0 Massive limestone) F 1	
5 3 - 7 -	11111111		4		1000		E-5	
							-6	
6-1				.				
7-3]	Non-coring		[₇	
7-1			•					
8-1							60.55E ₈	
							BOOK	
9-		8			89.5		F9	[
1 10		шш 98ф	Gray		90.0 Massive limestone	-		
901-1-	-######	8	8		10:0 TINDSIVE TIMESCOTE	1	E E	
					·		E,	
1 1 1				İ				
2-					Non-Loring		1850 2	
					₹		88.50	
3-3							E3	
				.			1 10	
4-					26.5		-4	
1 10-1			8		945 95.0 Massive limestone			
5 3 3			-03		130'0 LANSTAE LINES COUR	4	5	
				.	, •		45.00	[
8-7					Non-corina		46.00	
					Non-coring		E-7	
']								
8							E-9	
				:				j
9-							= 9	
h 1 01-1	_		t aug		99.5	-	7/44 = -	140.021
1001 1		<u> </u>	- 1	<u> </u>	100.0 Massive limestone	Water table	1 1	640.076
				1,0	tick), 2(substick), 3(piece), 4(fragment), 5 grain	after drilling	0.30	
	IZA KE	core loss		l (hard) ~	\$(soft)	Water table before drilling	1 ' F	
	ť	- RGO	1 ((fresh) — 5 (da	composed)			

*****			GOI	KTAS_	PR	OJE(<u>CT</u>			о. ТВ - 2 (SHEE			
	ADITA			DRACE		NN			PTH OF HOLE 190.0 PTH OF OVERBURDEN 0	O m COMPLETED	<u> 10 -</u> 19 -		-1988 -1988
	/ATIO RDIN		¥ _4	740.0	8	!	<u>n</u>		NGTH OF ROCK DRILLING 190.C			้ริเ	
			HOLIZO			Q	<u>:</u>	TQ	TAL LENGTH OF CORE 81,2	O m LOGGED BY		CA	
BEA	RING	OF .	ANGLE	HOLE				CC	RE RECOVERY 813/10 = 89.2	%			
	¥		à	5-x 0			,		BSERVATION OF CORE	WATER TABLE	Λ I	ı.	ž OS
DEPTH	OCK NAME	507	CORE RECOVERY	SEMENTY TION KIND OF BIT CASING	COLOR	THER ING	HARD. NESS	A SE	DESCRIPTION	WATER PRESSURE TEST		DEPTH	ELEVATION
	5			3	8	₩.	£	3		LEAKAGE OF DRILLING Y	┰┈╌┼		
100m			0 → 100,,							COGLON	74.50	Uni	640.076
1 11									•			-	}
17]				-	
1 7									Non-Coring	_		-2	
1 2 3 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									U			- !	
3-						}		}				-3	
4								Ì	[104.5~105.0m core:	·		-	
4-1						}			104.5 Microscopic observati	an.			
5	57				Gray				105.0 Massive limestone		71.50 97.90	-5	
"				} }	8						17.10	-	}
8-3						}	}					-6	
1 1							}		Non-coring			_	
17-	{					{	}					-7	
1								}				-8	
"]	Ì					}						_	
9. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.						,						-9	120 57/
1 1				486 mm					109.5		76.30		630.576
110=	}	-	WW.	486					Gray, hard limestone.		79.30	-0	
								}	chay, nata massission			-1	
']	ارها								A - I - I -	Poinax = 10.0		-	
2-1	one	_	WW.		;				112.5m : Oxidization	kg/com	-	-2	
1	imest				Š	2	2	1.	crack.	Lu=0		-	
3-1	1.11	H			Ō	-		2		P. MAX. = 10.0		-3	
					i 				-1126~113./m core:		79.30	_4	
4-	[İ				Laboratory test.	Lu=o	97.00	-	
5-1	-				į				113.85~114.0m core:			-6	
1	}								115.8 Microscopic observati	on. Pomax = 10.0			824.276
6-	্বা							3	115.8~ 136.0m:			-6	
1	T T				· i			4	•	Lu=0		7	
7-	pita				2 /	,		丕	117.0 Limestone (bituminous) 117.2	Formax = 10.0			
9 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mestone (bituminaus)				yray.	2	3	2	117.0~117.2m;		73.50	-8	
1 1	tor				ark			,	Fragment cores.	Lu=0	17.00	-	
9-	200	-			Q			3	v	Pomax. = 10.0		-9	
12.	17				:				• •			o	620.076
<u>1120 ∃</u>				\ - }		1	4	+	• dutter's note 4	Water table after drilling	0.30		
									ick), 2(substick), 3(piece), 4(fragment), 5 grain	water table pefore drilling	0.50		
			<u> </u>	— com loss — ROD		1		vard) ~ ~ 5 (de	omposed)				
													Annual Control

ANGLE F	ON NATE ROM	HEAL X: 4 HOLIZO	CTAS DRACE 740.0 160.825.8 DNTAL HOLE	PRI TU 76	OJE OJE	CT EL	DE DE LE TO	PTH OF HOLE 190.00 PTH OF OVERBURDEN 0 NGTH OF ROCK DRILLING 190.0	D. TB - 2 (SHEET O m COMMENCED O m COMPLETED O m DRILLED BY O m LOGGED BY		5 7 51	<u>-1988</u> <u>-1988</u>
DEPTH ROCK NAME	907	CORE	CEMENTA- TION XIND OF BIT CASING	COLOR	WEATHER	HARD- NESS	CUTTING	BSERVATION OF CORE DESCRIPTION	WATER TABLE		DEFTR	ELEVATION
120m	 	०⇒100, साम्रामा	7						LUGEON	m	0m	620.076 T
To a material materia					2	B	3 3	121.5 No oxidization crack,	Lu=0 Pomax=10.0 k3/cm² Lu=0 Pomax=10.0	73,40 mlmilmilmil		
9.00 million of the state of th						2	2	124.6-124.78m core: 125.0 Microscopic obser- vation.	Lu=0 Ponex.=10.0	ահամահակա 47.00		
mestone (bituminus)			шш 98ф	stay	3	2	3	127.6 ~ 128.0m : Re-con- 127.6 ~ solidated fracture zone	Lu = 0 Poirax, = 10.0	67.00 mahandan da sa sa sa sa sa sa sa sa sa sa sa sa sa		
Jimestone				Dark	۲		1	15° dip. 129.5	Lu=0 Pomax=10.0	17:05		
20 20 - Հայաստանում անդարակում ամասի դեռակում անդարակում անդարակում անդարակում անդարակում անդարակում անդարակում անդարակում անդարակում անդարակում ա					2	2 3	2	Ho solution crack.	Lu=0 Pomax = 10.0 Lu=0 Pomax = 10.0	67.05 inclination than	2	
1 -								136.0	Lu=0 Pomax=10.0	8600 muluuluuluuluuluuluuluuluuluuluuluuluulu		604,076
2 Luniuminutuminutuminutuminutuminutus Salaston			ф76 ты	t oray	,	2	3 5 4	136.0 ~ 149.0 m Quartz Sandstone. 138.0	Lu=0 Pomax=10.0	63.00 malandandanda		
A Guartz			½\$	liah!	3		2 3~4	139.5 ~ 140.3m : Piece~ 139.5 fragment cores.	Lu=0 Powax =10.0	65.70 65.70	9	600.076
			core loss RQD		1		\&(¢) ~	* driller's note 4 bick), 2 (subecck), 3 (piece), 4 (freqment), 5 grain 5 (soft) composed)	Water table after drilling Water table before drilling	0.50		

GEOLOGIC LOG OF DRILL HOLE PROJECT HOLE No. TR = 2 (SHEET 8 OF 10)

			GOh	KTAS:	PR	OJE	СТ		HOLE N	o. ТВ ~ 2 (SHEET	8 of	10	<u>)</u>	
LOCA	TION	i	HE AL	PRACE	TU	NN	EL	DE		O m COMMENCED			_1988	_
ELEV	/ATIO	N		740.0	76		m		PTH OF OVERBURDENO	m COMPLETED			-1988	ļ.
COOL	RDIN	ATE	X. 4 Y. 4	168.653.	58				NGTH OF ROCK DRILLING 190.0			<u>)</u> S		-
ANG	LE FF	MOS	HOLIZO	NTAL	<u>C</u>	0			TAL LENGTH OF CORE 81.2		ال	C/		-
BEA	RING	OF	ANGLE	HOLE				. CO	RE RECOVERY 81.3410 = 89.2	%			,,,,	~
	¥		æ	÷					BSERVATION OF CORE	WATER TABLE	ا۸	~	· 8	1
ОЕРТН	OCK NAME	507	CORE RECOVERY	CEMENTA TION KIND OF BIT CASING	8	HE CO	HARD	CORE	DESCRIPTION	WATER PRESSURE TEST		DEPTH	ELEVATION	
õ	ğ	7	REC C	වී දුෂව	COLOR	₹ =	¥ Z	85	DESCRIPTION	LEAKAGE OF DRILLING W	ATER	۵	3	
140m			0+100		-	-	 			LUGEON	m	0m	600.076₹	1
1-4			KKKKÎ			 -	1	3~4	140,3		63.00			1
-	ļ	•				ļ			· 15	Lu=0				l
1-			ИИИ					2		Pomax. = 10.0		-1		ŀ
1 -	1	•	KKKKI I							14/cm2		-		١
1 2 2 3 4 4 1 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7							ļ		1444~144.6m and 145.1		1 [-2		
4	2	•					}	3	/T&.T	1. 10.50		-		ł
3-	2		MMI						142.7 ~145.5m: Fragment core	Pomax. = 10.0		-3	Ī	
-	SS	•	KKAII	j	2	1	ĺ	2	oxidization crocks.		-	-		ŀ
4-	sandstone]	97.0	2			/44.4		87.50	-4		l
=	ী		KKIIII	į			2		144 L	Lu=0		-	į	
5-	T		M		9	3	Ì	2	144.6~145.1 m core:			-5		1
	Buartz		Ш		7			4	145.5 Laboratory test.	Pomax. = 10.0		_		
6-3	Œ		MANI						•		1 [-6	1	
4								2	146.5~ 146.7m core :			-		
7-					1			1		Lu=0		-7	1.	1
			KKKI I	İ			Ì	3	Microscopic observation	Powex = 10.0		-		l
1	-										75.30	-8	ļ	1
	į										76.00	-		İ
	1				L.	L		L	149.0			-9	571.076	1
"]			WH	76 mm				14	149.2	Poinox. = 10.0		_		I
16.				2,5	İ				149.0~180.0m:		77.00	-0		
150-]		8.	1	1	•	,	Sandy limestone.	}	67.00			١
			MXX					Z	•/	Lu=0		-1		l
2-1 1-1 1-1 1-1	Ì		KKK	1	ŀ					Po Max. = 10.0				١
=		-	WW] ;	1520 - 1500 141			-2	1	l
2-	t	╢.	KKK T		ļ				152.0 - 152.0 m core : Micro- 152.3		[]	- 2	}	ļ
1 1	ļ						İ		scopic observation.	Lu=0				1
3-	ار	: -	WW.					_		Pamer. = 10.0		-3		
3 4 4 1	20	-	MMI		ĺ			2			78.00			
4-	imeston	٠,			⋧		2				76.20	-4		ĺ
1 =	8		KKA		3	را	5	\ 	154.5~155.0m core:	Lu=0	1	_	•	
5-	1	.			-×	-	3		J55.0	Pomay = 10.0		− 5		ı
4	×	. 1	КKИ		3	j	3		Laboratory test.	18 may = 1010		-	1	l
6-	Sand	-∦∙∙			~					<u></u>	156.00	-6		1
4	3		XXXIII				ļ	2	•	Lu=0		<u>-</u>		l
7		,	ЖИШ					1	No oxidization craci	J .	1	-7		l
1		∭.	ЖИIII		i I		ĺ	3	No oxidization ciul	Po mox = 10.0		-		
8-	1							,		<u> </u>	1	-8		1
5					ŀ							-		ļ
9-1		.								Lu=0		9		1
			KKKI!						•	Pomax = 10.0		-		
160							<u>L.</u>		/60.0	<u> </u>	88.00	0	580.076	1
			N			†	. 🕴	1	≽ driller's note 4	water table after drilling	0.30	•		
		;							ick), 2(substick), 3(piece), 4(freqment), 5 grain	warer table	0.50	, .		
			<u>ر</u>	— cora foss		[wd ~		before drilling				
			<u> </u>	- RQO		1	(fresh)	~ 5(dec	(besogno	•				

ELEV COO ANG	ATION /ATION RDINATE ILE FROM RING OF	HEAC Y 4	740.0 60.825.8 168.653.9 INTAL	TU 76 8	ΝŃ	EL m	DE DE LE TO GO	PTH OF HOLE 190.0 PTH OF OVERBURDEN O NGTH OF ROCK DRILLING 190.0 PTAL LENGTH OF CORE 81.2 ORE RECOVERY 81.24(10 = 89.2	m COMPLETED 19 O m DRILLED BY O m LOGGED BY	- 5 -1988
рертн	ROCK NAME	CORE	CEMENTA TION KIND OF BIT CASING	R0.100	WEATHER ING	HARD. NESS		DESCRIPTION OF CORE OESCRIPTION	WATER TABLE	DEPTH DEPTH
160m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mestone		456 mm 473 mm	Dark gray	2	3 4	η	160.0~168.0m: Poor core recovery, 50~75%. 163.6~163.75m core: Microscopic observation 170.0~172.0m: Poor core recovery, 50%.	LUEON TO 88.00 LUE O 88.00 Pomax = 10.0 Pomax = 10.0 Ranox = 10.0 LUE O 88.00 Ranox = 10.0 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 LUE O 88.00 Ranox = 10.0 Pomax = 10.0	ակարկարիակարիայիայիայիայիայիայիայիայիայիայիայիայիայի
2					2	3	213	178.0 178.0~18.0m: Core tecovery 75%. 180.0	Lu=0 Pomax = 10.0 89.10 Lu=0 Pomax = 10.0 176.00 Lu=0 Pomax = 10.0 100.00 Lu=17.5 179.00 Pomox = 10.0 178.0 Water table 100 = 0.30	Etherhania 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6
			- core loss				hard) —	srick), 2(suberick), 3(piece), 4(fragment), 5 grain 5(soft) composed)	Water table before drilling	1

GORTAS PROJECT HOLE 19.0. TB - 2 Gener 10 or 10. 1988 LELEVATION HEADRACE TUNNEL OPTH OF HOLE 19.0.00 m COMMENCED 10 - 5 1988 ELEVATION 74.0075 m COMPINATE 30. 0 m COMMENCED 19 - 7 - 1988 ANGILE FROM HOLIZONTAL 90. LENGTH OF ROCK DRILLING 190.00 m DRILLED BY D.S.I ANGILE FROM HOLIZONTAL ENOTH OF GOOR B1.20 m LOGGED BY J.C.A. BEARING OF ANGILE HOLE - CORE 10.20 m LOGGED BY J.C.A. CORE RECOVERY 8124 10 = 89.2 % OSSEMATION OF CORE 10.20 m LOGGED BY J.C.A. CORE RECOVERY 8124 10 = 89.2 % OSSEMATION OF CORE 10.20 m LOGGED BY J.C.A. CORE RECOVERY 8124 10 = 89.2 % OSSEMATION OF CORE 10.20 m LOGGED BY J.C.A. DOSEMATION OF CORE 10.20 m LOGGED BY J.C.A. WATER TABLE - M. WATER						 	/ (11		TD 2	·10 ···	1/\	
Depth of overbuilding Dept							ne	HOLE HOLE) m COMMENCED	10 %	. 5	_ _1988
ENGRING FROM HOLIZONTAL 90		DE A								19	7	1988
ANOLE FROM HOLZONTAL SEARING OF ANGLE HOLE CORE RECOVERY \$17.4(0 = 89.2) WATER TABLE WATER T	COORDINATE	X. 4	460.825.8 168.653.5	8		_	LE	NGTH OF ROCK DRILLING 190.00			DSI	
BEARING OF ANGLE HOLE — CORE RECOVERY 81/4(10 = 89.2 % WATER TABLE — WATER TABLE — WATER PRESSURE ITEM TO COPE	ANGLE FROM	A HOLIZO	ONTAL	9	Q	•	TO	TAL LENGTH OF CORE 81.20	_m LOGGED BY _	<u> </u>	LCA	· · ·
	BEARING OF	ANGLE	HOLE	-		_	CO	RE RECOVERY 812/910 = 89.2	%			1. 3 + 5
1800		T >					0	BSERVATION OF CORE	WATER TABLE/	\		₹
1800	HT41	ORE DVER	AENT TOON TOON SING	8	ž o	O. ESS	RE	DESCRIPTION		y	EPT.	EVAT
	0 00 T	0 8	8 302	នី	YEAT S	HAR	82	DESCRIPTION	LEAKAGE OF DRILLING WA	ATER		15
1800 ~ 190.0 m (End of drill hole): 1	18om	0 → 100 _%			-				LUGEON		0m	560.076₹
of drill hole): Dolomitic limestone. $ 180.0 \sim 188.0 \text{ m} : \text{Core} \text{Formax} = 10.0 \text{Formax} = 10.$		WIR						· ·	A	179.00		
Dolomitic limestone. $ 100 - 100 100 $		MIN	1			}	ļ i				E 1	\ . \ \
188.0 189.0 179.00 179							. !	of drill hole):		,		
188.0 189.0 179.00 179	2-	WW	1		}			Dolomitic limestone.	. 13\cir.		-2	
188.0 189.0 179.00 179			1		Į	ļ		·	14=0		E-	
188.0 189.0 179.00 179	3 0		1					180.0~188.0m : Core			-3	
188.0 189.0 179.00 179	3.50		}	İ				recovery 50~75%	Fo mex. = 10.0		Ē	
188.0 189.0 179.00 179	4 16		E .					Kesser, oo 1,071		179.00	4	
188.0 189.0 179.00 179	4 7] [2]	ફે	2	>	3	· - ·	Lu=0		Ē.	
188.0 189.0 179.00 179	5-7 5		\$	E	-	~		·	P lh h		<u>-</u> 5	
188.0 179.00 17	1		}		ļ				7 6 Max. ~10.0	179.00		
188.0 179.00 17	6-100										E-6	l i
188.0 179.00 17									Lu=0		Ē.,	
188.0 179.00 17	7-1								Pomax = 10.0		Ė,	
2 /89.0 Po max. = 10.		KIIIK	1			ļ		187.7~187.85 m core :		179.00	8	
9 189.0 P_0 max. *10.0	8-1						-			17900	<u> </u>] [
$\frac{1}{1} = \frac{1}$		WWW.		L			_	·	2w -		9	551.076
R.B.D (Av.) = 60% R.B.D (Av.) = 60% R.B.D (Av.) = 60%		KKK		* 3	,	2	,		Po max. * 10.0]		1
R.B.D (Av.) = 60% 1	100	MAN		80	_	3	<u> </u>	190.0 End of drill hole		178.00	<u>-</u> 0	550.076
								0.41.70%)	E	
The declaration of the state of	1-							R.B.D (Av.) = 60%			1	
The declaration of the state of	11						}				<u> </u>	
The find of the fi	2-		•								-2	
	4				}					1	<u>-</u>	
4-17 15 15 16 16 16 16 16 16	3-3			•							E-3	
4-17 15 15 16 16 16 16 16 16	4										Ē.,	
	4-		}								E-4	
	1		}		1	ļ					<u> -</u>	
	5-1		}		1						E	
					ĺ						E E-6	
7-1	5		Į į	•		ļ	}		· 		Ē.	{
	1 1		[}			} .	E 7	
	7				ĺ				•	ļ	E.	
	8-3		(ļ	(! !		<u>E</u> 8	
	7 1					ļ			; ;		E	
	9-		(i		ļ		[.				E-9	
											Ē	
		Tilliiii	<u></u>	<u> </u>	<u></u>	1		h duller's cote d	W-100 10010	<u>. </u>	F.U.	L
1 (stick), 2 (substick), 3 (prece), 4 (fragment), 5 grain Water table after drilling 0.30		8			1	Ì) 1 (s	tick), 2 (substick), 3 (piece), 4 (fragment), 5 grain		0.30		•
Water table before drilling		KA K	Y care loss			16		· 1	water table before drilling	1		
1 (fresh) 5 (decomposed)		ŧ	- AOD		' 1	(fresh)	5 (dec					

			~ ~ .				JUI	![LUG OF DRILL			۸	
ست.				KTAS ER PL/		CT	, ne	OTU	HOLE NO				_1988
ELE/	ATIC	N.	- 30	11 912	> .	m'				Om COMPLETED			-1988
C00	RDIN	IATE	X. 4 Y. 4.1	62.758.5 66.135.8	3_				OF ROCK DRILLING 67.0			25.1	
ANG	LE F	ROM	HOLIZO	NTAL	90	_	TÇ	TAL	LENGTH OF CORE 70.3	7 m LOGGED BY		C	
BEA	RING	OF	ANGLE	HOLE			CC	ORE F	RECOVERY <u>99.1</u>	%			
	ME			ولا يو				DOSER	VATION OF CORE	WATER TABLE -	Λ:		Ž.
ОЕРТН	OCK .NAME	9	CORE RECOVERY	CASING	COLOR WEATHER	HARD.	CORE		DESCRIPTION	WATER PRESSURE TEST	,	DEPTH	ELEVATION
	ğ			8 × 80	8 33.	¥	8			LEAKAGE OF DRILLING W	ATER		<u> </u>
0m			0⇒100 _%		<u> </u>	<u> </u>		<u> </u>		LUGEON	m	0m	391.912 🔻
1 1					A Con		{	0.5		•		-	1
14	47	Δ					}		Talus de posit.			-1	
1	Š				276							<u>=</u> _	
2-3	cles	•			Dark gray				Oxidized gravels and			-2	
1	Sn)				14	\			clay.			_ 	
3 1 _{1,11} 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1	10	Δ					1	3.3	674.7.	Lu=(10)			
4-1					Bown			40	· ·			4	387.912
1	i						3	4.5	4.0~25.5m	Pomox = 3,0		a safa	
5-3	i		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Brownish dark green		4	}		kg/cm²	3.07	15 15	1 1
1 .1		•			*33	3	l l	5.8	Sandstone (groywacke)	Lu=(22)	0.07	اعطما	1
6-4					hdi		3	2.0		P		-6	
1 1		٠	/		MIES		1	0.8	4.0~7.5m: Many oxidi-	1 0 170X 0,0		d in a	}
7-3	į	·	ZZIIII		Sto		3	7.0	Zation cracks.			-7	
8-1			KIIII					7.5		Lu = (12)		-8	}
			И				5	-	- 8.45~8.60 m core : Micro	Pomax = 5,0		<u> </u>	1 1
9-	ļ		M.				_				4.75	-9	
		. }	W	mm 98¢			}	9.5	scopic ubservation.	Lu = 9.8	4.75		
10-				784	·				9.9m : Calcite vein	Po max = 10.0		-0	
=							3		1 mm wide (45° dip).	7 2 77.000		_	
11	9)		KKAIII					11.3		<u></u>		1]
1 1	to 2						2	12.0		Lu=10.5		-2	
2-1	Ş		(M)		12			12.0		Power = 10.0]
3-	Sandst	Ì	WM.		ab 2		3		·		5.82	-3	}
3 - 4 - 2 - 2 - 6 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	3		WIII		breenish w ~ ^	2				Lu = 49	77.00	<u> </u>]]
4-1	ļ				l ge		 	14.1	18.1m: Horizontal	Pamex = 10.0		-4	
4		. {	WIIII		\$ 2				·	james, - iviv		-	
5-3		Í					2	ľ	oxidization crock.		1	-5	
	.									Lu= 6,8		F .] }
6-1		1					_	16.0		Pomax. = 10.0		-6 -	
							3	17.0			11.25	<u>.</u> 7	
【 ′]	ļ						2	17.5		, _ F &	11.00	F	
8		{					3_	18.0		Lu = 5,4		8	1 }
1	1		KKAIII				3			Po max. = 10.0		<u>.</u> E	
9-	:						2				1	9	1 1
	ļ	• [WAIII				3	19.5	·	Lu=5.8	11.25	0	371.912
201		<u>k</u>	N N			4	1	٠	iriller's note 4	Water table after drilling			1011:716
				11-			1 14	stick), 2	(substick), 3 (piece), 4 (frequent), 5 grain	Water table	0.50		
		,	4	- sarı lass				5(soft)	•	before drilling	•		
			·	- ROD	1	(fresh)	5(de	compos	ed)				

LOCATION ELEVATION COORDINA ANGLE FRO	POW 1 39 TE 34 OM HOLIZO	ER PL/ 91,912 162,758.5 166.135.8) 3 9(T ' '	CT n	DE LE	OF HOLE OF OVERBURDEN H OF ROCK DRILLING LENGTH OF CORE	71.00 m	LOGGED BY	25 16 - D	5	<u>-1988</u> <u>-1988</u>
DEPTH ROCK NAME	L O G CORE RECOVERY	CEMENTA. TION KIND OF BIT CASING			HARD. NESS		OESCRIPTION	w.	ATER TABLE —/V	ATER	рертн	ELEVATION
Se 3notschadundundundundundundundundundundundundund		476 mm	Greenish gray	2 3 3 2 3 2 3 3	2	3 4 3 4 3 2 4 2 3	5 20.5~21.0 m. 21. and 23.0~23.5 m Fragment cores, 5 zones. 246~25.0 m core: L 5 tory test. 5 25.5~49.2 m: 6 Greenish groy ~, 5 hale. Boundary dip is at 25.5 m. 25.7~26.5 m: Di gray shale, 12mi 3 dip. 32.0 m and 33.0 m 0 xidization crac 33.9~34.0 m: Fra cores.	abora from the state of the sta	LUGEON POMAR = 10.0 LU = 4! POMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0 LU = 0 OMAR = 10.0	11.03 11.03 11.03 11.03 12.09 18.30 19.84 27.21 22.76 20.25 25.85	- 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 6 - 7 - 8 - 9 - 9 7 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	351.9/2
		-core loss - RQO) (liesh)	sardī ~		rain Wate	er griffing	- 0.50		

	POWEI 39 I 3.4 166 HOLIZON	R PL/ 912 758.8 758.8	3 90	<u>m</u>	DI LE T(EPTH OF HOLE 71.0	O m COMPLETED	25 16	- 5	
DEPTH ROCK NAME	CORE RECOVERY CEMENTA.	KIND OF BIT CASING	COLOR WEATHER	HARO. NESS	1 (1	DESCRIPTION DESCRIPTION	WATER TABLE — \(\sqrt{V}\) WATER PRESSURE TEST LEAKAGE OF ORILLING W	ATER	DEPTH	
	0 - 100 ₉₅		Greenish gray	2 3	3	40.5m: Lamina 35dip. 41.9 42.0~42.5m core: Lobo	LU=0 Ya- Pomax = 10.0	8.70 24.90		35/
8 դեսոկումումումունուրակումունուրակումունունունունունունունունունունունունունո			Purple	2 1 3	3 4 3	tory test. 43.5 44.6 43.5~44.6m: Fragment	Lie = 0 Brook = 10, 0	18.84 18.84	3 4 5 5	
9 14 mbindindin			Greenish gray	3	3	45.6 46.0 46.4	Lu=0 Po may = 10.0 Lu=2.2	8.57 22.80	ىلىنىلىنىلىنىلىنىلىنىلىدىلىنىلىدىلىدىلىد	
50 milimilimilimilimilimilimilimilimilimil		476 mm	an eur		3	50.1 at 49.2 m.	Pomax = 10.0 Lu = 0 Pomax = 10.0	22.80 22.80		34
2 miletal and a second			2	2	3	50.7 49.2 ~ 60.5m: Greenish gray sondstone. 52.8 52.8~54.5m: Many	Lu=3,3 Pomax = 10.0	9.24	1 2 3	
Landstone			Greenish ray	2	3	oxidization cracks.	Lu=1.8 Pomax = 10.0	22.80	دسلیدیالینیالیدیالید 5	
2 Sandschulundundundundundundundundundundundundundu			2 1 3	2	3	tory test.	Lu=0 Pomax = 10.0 Lu=0	/0.0 <u>0</u>	مىناسىدارىرىيالىرىيالىرىيال 7	
60 60 60 60 60 60 60 60 60 60 60 60 60 6					3	58.2~58.35m core:Mice 59.3 scopic observation.			8 9 0 0 0	હું
	À	ora loss			hard) ~	▶ driller's note 4 (asick), 2(substick), 3(piece), 4(freqment), 5 grain 5(soft) scomposed)	water tabla after drilling Water table before drilling	0.50	. 	-

	GO	KTAS	PR	OJE	21			O. PB-1 (SHEET		
LOCATION		ER PL		T				0 m COMMENCED		
ELEVATIO	и <u>39</u>	91.912) ?a —	ŗ	<u>n</u>			O m COMPLETED		<u>-1988</u>
COORDINA	-	62.758. 66.135.8					NGTH OF ROCK DRILLING 67.0 TAL LENGTH OF CORE 70.3		DSI	
	OM HOLIZO			<u>O</u>	_		TAL LENGTH OF CORE 70.3 RE RECOVERY 99.1		UILL	1
BEARING	Or ANGLE	T	<u> </u>				BSERVATION OF CORE			
# #WE	ي پر	E SO S		œ	S	ဖ	BSERVATION OF CORE	WATER TABLE -V	V— _ξ	VT10M
OEPTH TOCK NAME	CORE RECOVERY	CEMENTA TION KIND OF BIT CASING	ရှိ ရ	WEATHER ING	ARD.	SORE	DESCRIPTION	WATER PRESSURE TEST	DEPTH	ELEVATION
	0 +100,,	ļ	-	W	I.			LEAKAGE OF DRILLING WA		
60m	, иипп пиипп		2797	2~3	-					331.912 ⁴ 331.412
SS	T- X		\$ 0			1	60.5	Pomovi=10i0 Kg/cm²	E	321.712
1 1 1		}	100	3	≥ 1 3	3	60.5 ~ 64.0m : Shale.	\	9.33 E 1 22.69 E	
						ļ	8/-3	Lu=0	2	
Shale		1	٩	2	2	3		Poinox. =10.0		
37			4	2 1 3	3	 			. [3	
1 3 1			1	3	3	14			<u> </u>	
4	ЦKK	mm 92.4	<u></u>			<u> </u>	64.0	1u=0	<u>E</u> 4	327.9/2
Sandstone	· KA	4774	S S	2		2	64.0~65.5m: Sandston	Poinax = 10.0	-	
5-1 50	.		100	2	2	3		<u> </u>	9.30 5 9.30	326.4/2
1 3 3	// /////		1	-		<u> </u>	655	Lu=0		320.4/2
6-3							66.0~66.15 m core : Mici	å- ·	E-6	
1 1 1	II KAIIII					3	scopic observation.	Pomax = 10.0	9.30	
7-			0	2	3	Į (65.5~70.0m : Shale.	1 3	9.30 7 29.50	
Shale			0	}		4	60,5~ 10.0 m · 0 110/c.	Lu=0	E 8	
			1 2	2	ĺ			Pomox. =10.0	<u> </u>	
Shale Sandschool Sandstone Shale				ļ	<u> </u>	<u> </u>	67.0		28.50 € 9	
1		[<u>\$</u>]		1	3	3		Lu = a	<u> </u>	
170-1		79	-	3	<u> </u>	4	70.0 71.0 m : Sandstone.	Po max. = 10.0	E-0	321.912
- 1 S.S.			gray	2	ا د	3	71.0 End of drill hole	1	34.96	320.9/2
1-1-1	{{\\\	 1	05	<u> </u>	-		71.0 Chy of drift hole		<u> </u>	020.7/2
		l					5 5 5 14 5 70 7		E-2	
2-							R.Q.D (Av.) = 48%		£ 2	
									3	
3-7										
								<u> </u> -	- 4]]
									E	
5-1]						<u>E</u> 5	
- Tag]]
6-			Ì					· .	E -6	
								·	<u> </u>	
7 1							-		£7	
]	Es	
8 -									<u> </u>	
9			1]	E_9	
] [[1				·		E	
٠				<u> </u>	لــــا		***************************************	1	<u> Fo</u>	
	13.18	j			1	1,,	driller's note 4 bick), 2(substick), 3(piece), 4(fragment), 5 grain	Water table after drilling	0.30	
	KY E	care loss			 1 (h	ard) ~:		Water table before drilling	10.30	
	<u> </u>	- AQD		1			omposed)		4 * *	
							3 - 60			

ELEV COO ANG		N ATE ROM	PEN 5		CK 53 :33	9	o.		DE TC	PTH OF HOLE 70.0 PTH OF OVERBURDEN 2,2 INGTH OF ROCK DRILLING 67,7 ITAL LENGTH OF CORE 68,8 DRE RECOVERY 98,4	5_m LOGGED BY	7 - 24 -	4 5 S I	<u> -1988</u>
ОЕРТН	ROCK NAME	5 O 3	CORE	CEMENTA- TION KIND OF BIT	CASSING	80,00	WEATHER	HARD		DESERVATION OF CORE DESCRIPTION	WATER TABLE		SET N	ELEVATION
0m			0 ⇒ 100 _%								LUGEON	m	0111	521.353 T
11	Talus deposit									0~2.25 m : Takes deposit	i e		ļ	
1 2 3 4 5 6 7 7 1 8 9 9 1 9 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	sale	Δ				Gray	•			Limestone gravels 4200	14. Pomar. = 3.0	հահահան 2	'	
2-1	alu									225	kl/cm²	E ₂	,	519.103
1 1		7			1	2				2.25 ~ 56.0m:	Lu=(7)	=		277749
3-1		-				3	2			3.1 Massive limestone.	Po 114x. = 3.0	1.00	3	
1 1			M				} 3	2	3	Plassive Times conc.		Ē		
4-711										45	Lu=(19)		'	
5-3	<u> </u>	-							3	,	Pomax = 5.0		5	
1									-	5.4		1,90		
6-1		-								5.4~8,5m: Many solu-		1.90 E	3	
7-3							,]	2	tion cracks, 70°-80'dip	Lu>100		,	
1 1					1						Pomax. = 0			
8-3		+		, a metal page	}	[3	į
1			KWIII		4					8.5	Lu >100			
9]				mm		ļ					Pamox. = 0		"	
10-				486 тт			i					10.00	,	
	0 40										Lu=(80)	E		
1-	15s	-			Ì				3		Pomax. = 5.0		١	
10000 tunquing	imestone		XX			Gray	````	2)	!	, , , , , , , , , , , , , , , , , , , ,		,	
4-1	7					W.	U į	_			Lu=(67)			
3-	-									14~16m: Meshy calcite		[[E	3	
										•	Po max. = 5.0	14.00		
4-1	Į		Mh							Vein.		14.00	4	
5								i		15.0 IF 0 1/ 0 and 17 2	Lu >100		5	
ر ا									2	13.0~10.0 m and 1 1.2	Pamax. = 1.0			
6-1		-				1			4	15.8 17.5m: Fragment cons) <u>F</u>	6	
1							į		2		Lu=36.5		_	
7-									X.	17.2 17.5	Pomax = 10.0	h	7	
3 4 5 6 7 8 8 9 9							İ		1			16.50	8	
1						.			<u> </u>	18.5 18.5 m · Solution crack	Lu=2/.0	16.50		
9-1					.	-			3	70°~80° d.p.	Pomax. = 10.0		9	
20									2	19.5 20.0	7 5 10 10 10 10 10 10 10 10 10 10 10 10 10		0	501.353
<u></u>			8, 8				1	1.	1,,	► driller's note (ater table after drilling -	0.30		
		•	ka es	— cone Kras				10		Sicoft	vater table before drilling	10.30		
			t	- RQD			٦,	(iresh)	~ 5 (đe	composed)				

	PEN	NSTOCI 21,353 162,563,3 100,145,3	3 90	<u>m</u>	DE LE TO	PTH OF HOLE 7 PTH OF OVERBURDEN NGTH OF ROCK DRILLING 6 ITAL LENGTH OF CORE 6	E No. PB - 2 (SHEET O.OO m COMMENCED 2.25 m COMPLETED 7.75 m DRILLED BY 8.85 m LOGGED BY 8.4 %	7 - 4 24 - 5 DS	<u>-1988</u> -1988 I
DEPTH ROCK NAME	L O G CORE RECOVERY	CEMENTA- TION KIND OF BIT CASING	COLOR	HARD		BSERVATION OF CORE DESCRIPTION	WATER TABLE — N WATER PRESSURE TEST LEAKAGE OF DRILLING W		ELEVATION
90 2012. 1 2 2010. 1 2 2 2010. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		476 mm	Gray a		3	200 21.0 22.0 22.0 ~ 25.4 m : Frog cores. 25.4 26.0 27.0 28.0 m : Meshy Calo vein 5~10 mm wide. 30.0 30.0 m : Calcite Vein filled open crack.	LUGEON Lu > 100 Pomas = 1.0 Refem Lu > 100 Pomas = 1.0 Lu > 100 Pomas = 1.0 Lu > 100 Pomas = 1.0 Lu > 100 Pomas = 1.0 Lu > 100 Pomas = 1.0		\$501.353 [™]
$\frac{4}{m^{3}}$			Gray Dark gray		4 2 3 4 2 3 4	33.4 34.0~34.15 m care: h 34.5 scopic observation 35.4 36.6 Many oxidization of 38.5 39.5	Pomox. = 10.0 Lu > 100 Pomox. = 1.0 Aicro- Da. Lu = 25.0 Pomox. = 10.0	32.00 lull 3 32.00 lull 3 34.00 lull 5 36.00 lull 7 36.00 lull 7 36.00 lull 7 36.00 lull 7 37.00 lull 9 37.00 lull 9 37.00 lull 9	481.353
		core loss ROD			(hard)	uck), 2(subspck), 3(piece), 4(fragment), 5 grein 5 (soft) omposed)	• • • • • • • • • • • • • • • • • • • •	0.50	

OBSERVATION OF CORE WATER TABLE	
WATER TABLE WATER PRESSURE TE LEAKAGE OF DRILLING WATER TABLE WATER PRESSURE TE LEAKAGE OF DRILLING LEAKAGE OF DRILLING	TE DE TE
40m 0→10036 LUGEON	m om 481,353v = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	45.45 6 45.45 6 45.45 6 45.45 6 45.45 6 45.40 6 48.20 6
5-3 543 Lu=0 Pomox. = 10.0	49.10 49.10 49.10 449.10 445.353
56,0~64.2 m: Sandstone Lu=0 contained organic material. Poinax. = 10.0 57.85~57.85 m core: Micro- Scopic observation. Lu=0 Poinax. = 10.0 Poinax = 10.0 Poinax = 10.0 Italiers note 4 Italiers note 4 Italiers (Afragment), 5 grain Water table after drilling Water table Water table Afragment, 5 grain Water table	54.46 0 461.353

LOCATION ELEVATION COORDINA ANGLE FRO	PEN 5 TE <u> </u>		(} 90		DE LE TO	PTH OF HOLE 70.0 PTH OF OVERBURDEN 2.2 NGTH OF ROCK DRILLING 67.7 TAL LENGTH OF CORE 68.8	5 m COMPLETED 5 m DRILLED BY 6 m LOGGED BY	7 - 4	<u>-1988</u> -1988 I
BEARING (OF ANGLE	CEMENTA- TION TION KIND OF BIT CASING		HARD.	0	RE RECOVERY 98,4 BSERVATION OF CORE DESCRIPTION	WATER TABLE —— A WATER PRESSURE TEST LEAKAGE OF ORILLING W	ATER X	ELEVATION
Sandstone	0 - 100,5	ļ	Jark gray		4 5	Cores are brittle. Core recovery 60~90%.	Lu=0 Pomax = 10.0 kg/cm²	m 0n 54.46 54.46 2 54.46 2	461.353
mindinhinanin Sanc		466 mm	Dark	3	3	64.2 ~ 70.0m (End of	Lu=0 Pomax = 10.0 Lu=0	54.60 4 50.24 E	<u>457./53</u>
Limestone Sandstone Sandstone Sandstone		994	Gray		2	65.5 drill hole): Limestone 65.5 drill hole): Limestone 67.80~67.95m core: Micro	Pomax = 10.0	49.56 49.56	
20 80 400 400 400 400 400 400 400 400 400 4						scopic observation. 68.8~69.2 m core: Labor tory test. 70.0 End of drill hole	ra · Lu = 0 Pomax. = 10.0	5/5640	45/ 353
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8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							aler table	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
		~ core loss ROD			/ሙር) ~ ;	uckl. Z(substick), 3(pioce), 4(freqment), 5 grain	after drilling	0.30	

ELEVA COORI ANGLE	DINATE E FROM	Alteri 5 X. 4 Y. 4 HOLIZO	TAS Pative Po 20,511 \$3,594: PATAL	wer P 3 3 3 3 90	ant m	DE DE LE	PTH OF HOLE 50 (EPTH OF OVERBURDEN 35,8 INSTRUCTION OF ROCK DRILLING 15,8 INSTRUCTION OF CORE 31,3	35 m LOGGED BY	- 9	-1987 -1987
	NG OF	CORE RECOVERY	CEMENTA: TION KIND OF BIT CASING		HARD	(DRE RECOVERY 62.7 DESCRIPTION DESCRIPTION	WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WATER	ОЕРТН	ELEVATION
Om	-	0 → 100 _%			+	-		LUGEON m	0m	520.518 T
0 - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 0 1 2 3 4 5 6 7 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0		ωω Οόφ	Dark gray			0.7 Alluvium. 0~0.7m: Brownish graval and sand. 0.7~35.5m: Peridotite gravels. No fine moterial in conboxes.	7.51	ավավավավայիանակահակահակակակակակակակակակակակակակակակ	520.5/8 * -
			- core foss			hard) ~	► driller's note 4 stick), 2 (substick), 3 (piece), 4 (freqment), 5 grain 5 (soft) composed)	water table after drilling	20	

			GOK	CAS	PROJ	ECT				SK-1 (SHEET			
LOCA	ATION	Į	Alteri	native Pr	wer I	lant				n COMMENCED			
ELEV	/ATIO	N	 ;	20.518	3 39	m		PTH OF OVERBURDEN 35 NGTH OF ROCK DRILLING 15				DS.	<u>-1987</u>
				153.591. 177.144. DATAL		<u> </u>			.35 n				
				HOLE		_		RE RECOVERY 62				J3-2 3.	
								BSERVATION OF CORE					
l e l	ROCK NAME	_O	VERY	NO ONTA	~ (g	T 92				ATER TABLE	^-	DEPTH	ELEVATION
ОЕРТН	8	0 7	CORE	CEMENTA TION KIND OF BIT CASING	COLOR	HARD.	CUTTING	DESCRIPTION	1	ATER PRESSURE TEST EAKAGE OF DRILLING W	ATER	96	ELEV
20m			0 → 100 _{ec}			+	+ 3			LUGEON	l m	Qm	500,5/8 T
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1	70,			mu 99¢	818	3		37.5 are seen along the		kg/cm²		-8	
2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Peridotite	;		&	Dark	3	3	cracks.					
9-1	2	1	X		7		,			Lu=17	26.00	-9	
"		V				'	4		/	Pomox. = 10.0	16.00	-	
40				<u> </u>	lacksquare	나.	Ļ	A della de la constanta de la		r rahla	<u> </u>	0	480.5/8
		1			1	1	†	> driller's note 4 rick), 2(substick), 3(piece), 4(fragment), 5 grain	aft		0.30		
			isa KA	- core toss	ļ	1,	(hard) ~		wa te be f	r table	10.50		
			ŧ	ROD	,	\$ (fresh) ~ 5 (de	:omposed) 3 66					

	:)(ai	C LUG OF DRILL		· - 7 *7	•
				KTAS		*		ne	PTH OF HOLE 50.0	O. SSK - 1 (SHEET OM COMMENCED)		
	ATIO VATIO		AITELI E	native Pa 520,518	JWE 3		m Tur		PTH OF OVERBURDEN 35,5			
CQO	RDIN	IATE	X,A Y,_ 4 l	+53.591. 17.144.	59 65		_		NGTH OF ROCK DRILLING $15,5$	Om DRILLED BY	DS	
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BEA	RING	OF	ANGLE	HOLE					RE RECOVERY 62.7	%		
_	AME			S QNA		Īα	1	 -	BSERVATION OF CORE	WATER TABLE	√ — _×	NOIL
DEPTH	OCK NAME	507	CORE	KUND KUND BIT CASIN	COLOR	WEATHER	HARD	CUTTING	DESCRIPTION	WATER PRESSURE TEST	OEPTH	ELEVATION
			0 + 100 _a			\\	=	ರ		LEAKAGE OF DRILLING WA		1
40m						 	 				m On	480.518
1 1			Ø							Lu=13		
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2-2			X				{		cores continue.	K8/cm²	-2	}
1 2 3 4 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			и						No oxidization along	Lu= 1.0		
3-		V				İ			cracks.	200 1.0	<u> </u>	
1	ره			\$, ×	1			C10010.	Pomax = 10,0	1.7.0	
4-	Peridotit			mm 99¢	Dark gray						24.80 4	
	90			4	rk		2	3		Lu=0	Lu _E 5	
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										10 max, = 10,0		
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									R.Q.D (Av.)= 10%	Lu=O	E-9	1 1
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<u></u>						1	1	1		vater table after drilling —p	- 0.30	
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