# Appendix 1

### LOGS OF CORE DRILLING FOR THE DETAILED DESIGN





1	PRC	NECT			THE DETAILE	D DESIGN			E - PORTOMEJ			DEPTH		30.0			i	EVATIC	+		3.56 (		
Ŵ	RA	nte Ge c	ORE	EST. 100	MULATOS			COORDINATES DATE	N. 9906453		388	DRILLED		VDF QU		,	<u>i</u>	DGGE			KER BUF		
	RES	COVE	ELEVATION	FORMATION	ROCK TYPE	COLUMN SECTION		DESCRIPTI		ROCK	ROCK	CORE RECOVERY	1			 1(	SP		<u>і — і </u>	D) TEST	0		50
السلسلان	1		83.56 82.16	NUMIN	Colluvium			silty clay wi ed debris	th	STIFF	•											-	
		,			Mudstone	#		Mudstone			· . 												
_	;	3				1	<b>90</b> 00	istone, slighti nk arav coloi	y fine grained y weathered r with oxidated													_	
-		• 1 •				ļ	1 63*/3 Mc	assive but tri	oble	ш х													
_		5			fine grained		levels o	f fine grained ing with Muds	sandstone	CL			ĺ						-	+			Ē
		<b>6</b>					Dark gr	oy silty fine ne, some sol	grained														
		8 <sup>2 -</sup>						ty fine graine = horizonta															
	_	9					_some s	oft	a to to a				: ;; ;				, 						
	-	¢	73.66					h gray fine a	nd medium	Ш см													
	-	1			Medium grained		grained Massive	sandslone															
		2 3			sandstone		microco	nglomeratic	n an grain An an grain An an an an an an an														
	-	4	69.06	سًا –	Fine grained sandstone		Light gi soft roo	sk j	ed sondatione	IV CL													
		5	03.00	0 2	Mudstone		Bedding	Mudstone, tuf   horizonta	É ja sa sa	ш	a an Na												
	-	<u>6</u>	67.56		Fine grained		Dark gr	lely comented	medium	C M		•											
	-+	17	66.25		sondstone Mudstone			sandstone, : nassive, mode	rately cemented	сı ш													
	-	9	65.06	-			Greenis sondsta	h gray sitty 1	ine grained	Ш См					<b>6</b> 97e								
Transfer to the second s	-	20			Fine grained			g — horizonta	<b>i</b>														
The second se	-	21	21.30 ROI 21.40 TES	×	sandstone					см т	21.30					10-5	.8 x	а.  -	<b>m /</b> (		¥		
	-	53 55									21.80									1			
	-	24	60.26				dark e	ray fine and	medium														
	-	25			Medium		grained	i sandstone, j — horizonte	some soft	щ					•								
		26			groined sondstone			e e e Se estas Agrico da		nz										Ţ	-		
	-	27								CM							+,	Ţ,	4	-	+	╞	
	-	218 279	55.26		Coarse grained		sondst	n and coorse one, soft roc	grained k	 						_	3.1		4 4		- -		1
		30	53.76		sandstone Congiomer.		(congle	omeratic) nerat, soft ra		014-CI						ŀ		6				+	╞

HOLE Nº DP-93-1

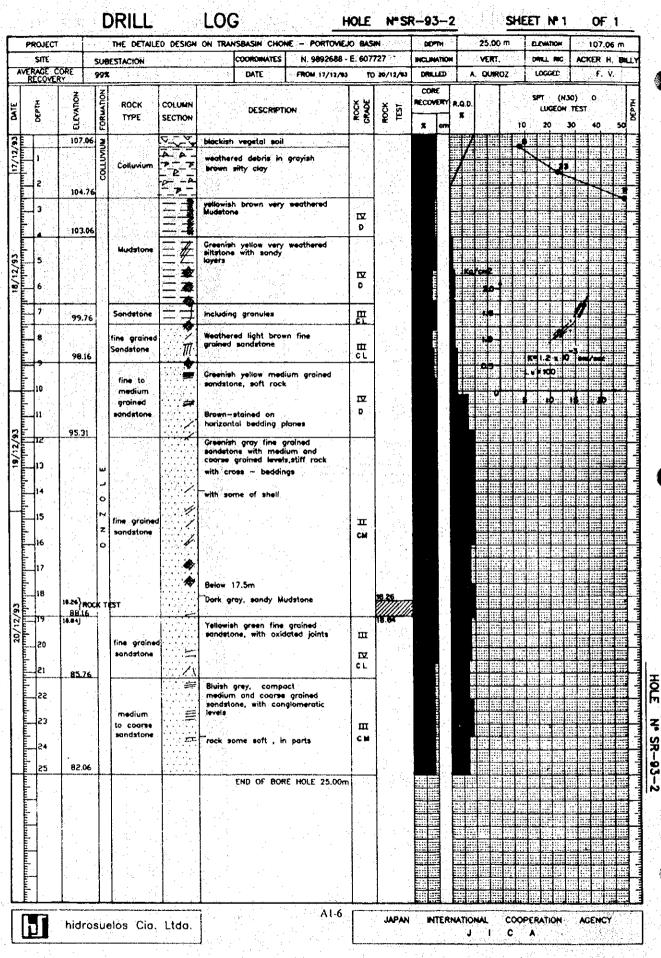
P	ROJECT		THE DETAIL	ED DESIGN	ON TRANSBASH CHOME - PORTOME	JO BAS	in i	DEPTH	Ī	30,0	्रेण	To	LEVAT	ION	88.	08 m		<u> </u>
•	SITE		T. CANALES		COORDINATES N. 9908206 -	<del>, i i j,</del>	1 11 11 11	INCLINATION		VERI		0	ΠĽ.	NC		CER		HLLY
AVE	RAGE C	ORE	87%		DATE FROM 28/11/93	TO	7/12/93	ORILED	A	QUIR	oz	Ŀ	LOCC	B	R.	BURG	205	
	DEPTH	ELEVATION	ROCK	COLUMN	DESCRIPTION	ROCK GRADE	ROCK	CORE RECOVERT	R.Q.D.		1	\$ 0	20	(NJ) EON L	17.1	0 40	50	DEPTH
		87.68	Sond	26 C (S)	sond and grovel coarse grained sandetone,conglomeratic	IX						-						and a
	t		Sondiston		Greenish groy sitty fine groined	1			11									
يسلسيه	z			• • • • • • • • • •	sondstone Gray fine grained sondetone some soft	<u>.</u>		100 A				1						
	3	85.33			Bedding - horizontal			d area	•									
hundre				· · · · · · · · · · · · · · · · · · ·	dank brown medium and coarse grained sandstone												**	
Ē	4		medium		Beding - horizontal	œ	ng Mara		12									
	5		coarse grained		Massive, soft/compact	CL				<u></u>		<u> </u>	$\left  \right $	_				
	6	i Annal Anna Anna	sondston	<i>!</i> .								1						
		81.38	-									┿						a la
- Luci	7	80.28	Mudstone		Greenish gray Mudstone, with some breach	ш						Ē			T	I		
F	8				Greenish gray silty fine and medium grained sondstone							+						
The second second	9		fine	i Angla angla Angla angla	Bluish gray medium	1	 					F						
لسلسلس	10	1. 1. ada	ond medium		grained sandstone, some soft Bedding — horizontal	÷ .		an an 1944 P.L. Contract Street		1002	ŀŀ	-						a lui
			grained sandston				e gar	a da se				+		: 				and a second
/or 1	-111									•		<b>K</b> -	4.	*10	-	1	¢	
	12	76.08		+ * • •		LT CL						Lu						
	13		Conglomen	n	coarse grained conglomeratic in coarse grained sandstone						1.				Z			-
ملايريني		72.02		••••			· · · · · •							4				عداده
	_14	73.93		===	Gray Mudstone, Tufaceous	1		liter.				${\boldsymbol{Z}}$						
	15				greenish gray, silty fine and medium grained sondstone			. <b>.</b>				t		5	1			
- Inde	16			n an				5				-						1997 - 19
<u>111/06</u>	17				medium and coorse grained	m				्राष्ट्र जूषम् २५२ जूष			1 7 1	0-6 c		•		Eilt In Ann In
			fine			C.M							1		┢			يديا 16 مدانيه
- المعال			ond medium groined									Ŧ		4				line.
Ē	_19		sandstor	•	gray color					· • •	1	<b>1</b>				-		
عليها	20				conglomeratic						F.	1						
1. 12/95 26/21/	21				fine and medium grained	īχ			14.4	r-e-			0		01	.0.		and Luke
5						m a.• ci		Ë			┨╽	+-				ļļ		يتنات
علىسال	-55			,,								t						
3		64.88 23.35 NOCT			Greenish gray Mudstone, with	+	23.2						P					
15/12/95 ماليليا مساسياسا	24	23.35 NOCI 23.75 TEST		EEE	some sandstone Bedding - horizontal		23.75					Ł	Ļ	* 5		6-5/		
2 1 1 1	25	· .			gray color tulaceous						Π							an a
n du n	àr			EEE								+						in an
E.	26	61.58	-		Annalah annalah	- ш						1						
/12/93	27		fine grain		graenish gray fine and medium grained sandstone "medium and coarse grained	CM						╡						
	28	59.93	sanaston		conglomeratic	- <sup>1</sup>						Ŧ						
Ē	29		Mudstone		Greenish gray Mudstons, with some sandy parts													
27.2	30	58.08			gray color, tufaceous							-						1160 11
_ ۲	17	hidrosu	elos Cia.	Ltdo.	AI-2		JAPAN	INTER			coc				AC	ENC.	Y	
<u> </u>					J	· L				U.	C		-2947 <u>- 144</u> 1244			1 4	- 20 <sup>-1</sup> -	2413 
			· · ·	· · · ·		1 N. N												
	· .									신문		a in China					- 11	

SITE	CONG	UILLO		ON TRANSBASIN CHONE - PORTOVIE.			OEPTH	30.0 VER		CLEVATION ORIEL RIG	ACKER
AVERACE CORE RECOVERY	100X	: 		DATE FROM 10/11/03		0 23/11/03	CORE		ROZ	LOGGED	RE
OATE OEPTH ELEVATION	FORMATION		COLUMN SECTION	DESCRIPTION	ROCK	ROCK TEST	RECOVERY	R.Q.D.		LUGEON	30) 0 TEST 30 4
	).68 ).48	Weathered Nudstone	ĒĒ	brown Mudstone with siliceous conglomeratic debris(breach)							
28/11/0 28/11/0 2		sendstone	 //	Brown fine grained conductories, with joints Drown medium grained	ш						
	5.68		<i>1</i>	coarse grained							
	5.08	Mudstone	==± ==±	débrie(breach) Dark brown							
				Greenish gray fine grained sandstone with traces of shell, sitty	ш						
7	ñ	ne groined		croconglomeratic level	CM						
8	•	andstone		brewn color							
9 1					II CM						
	9.48			Dark brown medium and coarse grained sandstone, some soft							
20/11/93		landstone	} /	medium grained	m rv		- Turk				
13	5.13		· }: :		ССМ		adadan.				
14		Mudstone		sondy and conglomeratic greenish Mudstone	π						
15 - 74 - 16	ш .08 				'СМ						
17	0 7			Greenish groy sity fine grained sondstone							
18 18	Z O fi	ne orained	·	dark brown color breach~level	ТГ См					102 7.5 x 10 Lu x 6 (	Con b
19		randstone	/	— Graenish groy color							1
	0.18						•		2	s	1
		Hudstone		Greenish gray Mudstone with Dreach debris	ш	22,00				KRI.7 x K	o 4 <sub>690</sub> ,
22 22 22 20 1 1 / 1 1 22 22 22 20 1 1 / 1 1 22 23 23 20 23 20 23 20 23 20 24 57 23 20 24 57 25 57 26 5 27 5 27 5 28 5 29 5 20	TEST	Mudstone		Greenish gray Mudstone with traces of shell, some sandy	ĊM	22.57					/
24				Greenish gray fine and medium grained sandatone with traces.					1		
		eondstone		of shell, muddy							4
27				- microconglomeratic	н см				jį,		
	.78	Mudstone		Coorse, massive Greenish groy Mudstone		 			Í	Ke 7.C x	10 🗣
	1	ine grained landstone		Greenish gray muddy fine grained sandstone						LuiOs	
	osuelo	s Cia. L	tdo	microconglomeratic A 1-3	[]	JAPAN	INTERN	ATIONAL	cool	ERATION	AGEN

Δ.	PROJEC		EST	THE DETAIL		ON TRANSBASIN CHONE - PORTOVIE COORDINATES N. 9892673 -				55.00 m	DEWATION OFFILE REC	95.87 m.
A	RECOVE	CORE RY	10	<b>0%</b>		DATE FROM #/12/83	in the second			f		F. VASCONEZ
DATE 3	H	ELEVATION	FORMATION	ROCK TYPE	COLUMN	DESCRIPTION	ROCK	ROCK	CORE RECOVERY	R.Q.D. X	SPT (NJ LUGEON	
9/12/93	- 1	95.87		Colluvium	<u>⊽-⊽</u> ≁ '⊻- <sub>∀</sub> √	stiff blockish clayey sitt with organic material	DUNG	- 18 - 19 - 29 - 1				
<u>)</u>	- s	94.37				Creenish gray fine grained	172-0					
	3											
				tine grained								
	5			sondstone			m cı.	and the second second				
	6				11				E			
		88.87			1		i lena N		a la ja da (1912)			
	-				٠	yellowish green fine and medium grained sondstone with shells,			n rouse			
'12/93	-			fine and medium	È	stiff rock and oxidated joints	ш					
2	- 9			groined sondstone	TIMIT		cr					
		85.37			1							
	11					Bluish groy medium and coarse grained sandstone; moderately comented	ш					
	_iz			coorse grained sondstone		Dark brown coarse grained	CL					
						conglomeratic soft rock	<u>r</u> z					
	- 14	81.87	- ω		<u> </u>		CL D					
	- 15		-			Gruy medium grained sandstone stiff, with conglomeratic levels						
	16		0 2	medium			<sup>.</sup> .					
	17		Z	ant fine grained	[::: <i>:]:</i>	<b>Granish brown fine grained</b>	Π					
	18		°	sandstone	<i>y</i> :		CM					
						microconglameratic						
	- 19	76.57	-			Gray medium and coarse grained						
. E	- 20			medium and coarse		sandstone, moderately cemented with microconglomeratic levels	ш		4			
11/12/93				grained sandstone		Dark brown, some soft	CM					
5		73.87	4			fine and medium grained Ught gray sity and fine grained sandstone, stiff rock						
	23			fine	·	gromed sondstone, stiff rock						
10 Contraction	24			grained sondstone			Ш см					
	22	70.77				coorse groined level, Greenish						
	26				1	yellowish green line and medium grained sandstone						
	27	 		fine and		Emicroconglomeratic levels	Ш см					
/12/93	- 58			groined					233 1997			
12/	29			sondatione								
	30					Light gray fine grained Tevels of Mudstone	CM II					
٢		hidee-				A1-4		JAPAN	INTERN		OPERATION	AGENCY
1	0	maros	uel	os Cia.			1			San Angeland San Angeland	A	

•. •				DRILL	1. S.	LUG					R-93-1	- 55.00					F.
<u> </u>	PROJE		EST	ACION DE BO				1. 9892673			INCLINATION	+		DRILL		ACKER	-
Å	RECOV	CORE ERY	100	<b>X</b>		DA DA	าย ค	NON 9/12/83	70	17/12/03	DRNLLED		ioż	LOCC	ED	F. VA	\$
DATE	ł.	ELEVATION	FORMATION	ROCK TYPE	COLUMIN SECTION	Di	SCRIPTION		ROCK	ROCK TEST	CORE RECOVERN	R.Q.D. 3	- 10	: LUG	(N30) EON T 30	EST	
3					••••	Homogeneous vertical joint a	and massiv	e Sub-				<b>퐬</b> 盘					
12/12/	31			fine and	1	veroca: joint a	(31.4~34		Щ. См								
	35			grained	1 <b>7</b>	the levels of Bluish grey col		lisoppear									
				sandstone	· · · · /	a rock some a	oftf		Π								ł
	- 33						· · · · · ·		CM								1
	34	61.9	4			Gray medium	orgined so	ndstone	- ·								ŧ
	35				1.5					••							
20				medium					π								1
13/12/93	36			groined sondstone	••••	Bluish grey c	oler		CM								
2	37				····												
	340	57.6	, i			fine groined			· .								f
	-1					Gray fine and		rained									-
	39				· · · · · ·	sondstone, fri	CDN9			- 							1
	40						· · · ·		_								
	41			grained		Dark gray co	lor some s	oft	Ш								
/93				sondstone													-
14/12/93	42	52,1	7		1	fine groined			1.20								
-	43		1			levels of Mud											1
	44			Mudstone					I								
				sandstone	EZ			· · ·	CM								
	45	50.7	40			Gray siltstone					•						-
	46		~	1 A A A		light gray sitt sandstone	y fine grait	Hed									
	47	n de la composition Na la composition de la Composition de la composition de la comp	7		- 114			· ·	Ξ		•	II					1
15/12/93	40					Compact, ma			m	1 . P							1
5		44.24]R							CM	40.34							-
	49	44.92jTE				Creeniet, arm	Mudatone	sound	<u>  .</u>	48.92							-
	50				[-Z,	Greenish groy stiff rock fevel with she	vita		1								4
-	51							·									-
16/12/93								1 A.	m			J III I					-
<u> </u>	52			Mudstone				a tala Sa									
	53								표								1
2/0	54				7			1.5									
17/12/03		40.8	,	en og felsen. Er som		level with sh	alia										
	E 55					<b>—</b> —————	BORE HOL	E 55.00m	1.								1.1
							en de la composition de la composition Na composition de la c										
							an tha An tha										1.11
																	-
	H							А. П. А.									1111
	H						ing a de Teoría	•.									
						$e^{\frac{1}{2}(1+e^{\frac{1}{2}})}e^{\frac{1}{2}}$	1										
Π	h	hidro	sue	los Cia.	Ltda.			A1-5		JAPAN	INTERN	IATIONAL	ÇQQI C	PERATIC	)N	AGEN	1
Ľ				<u>같이 한 것 같아.</u> 문제 같아.					. <b>L</b>								<del>.</del>

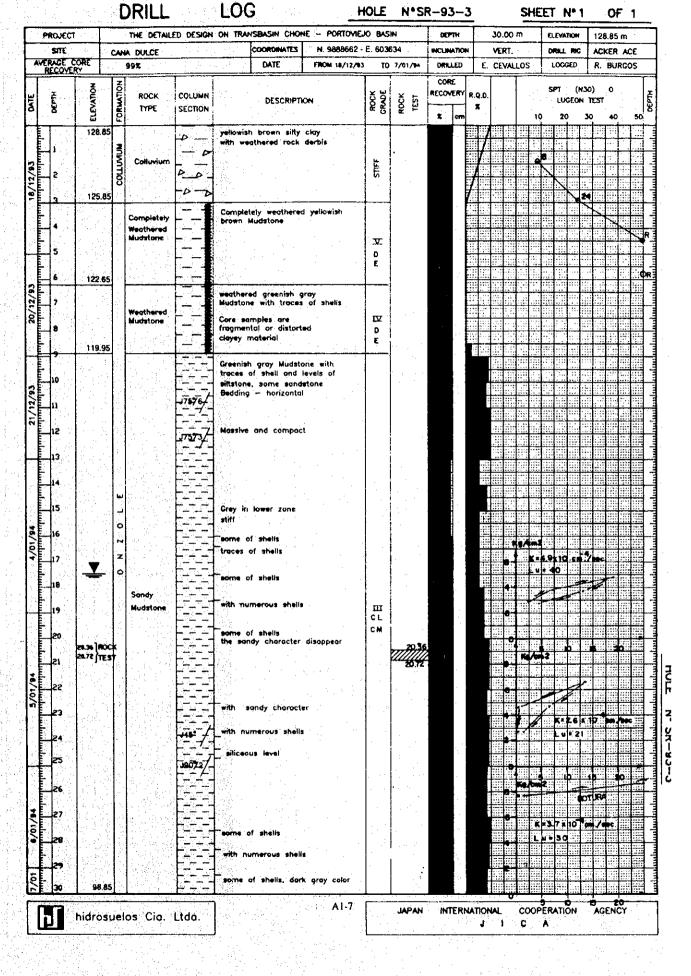
HOLE Nº SR-93-1





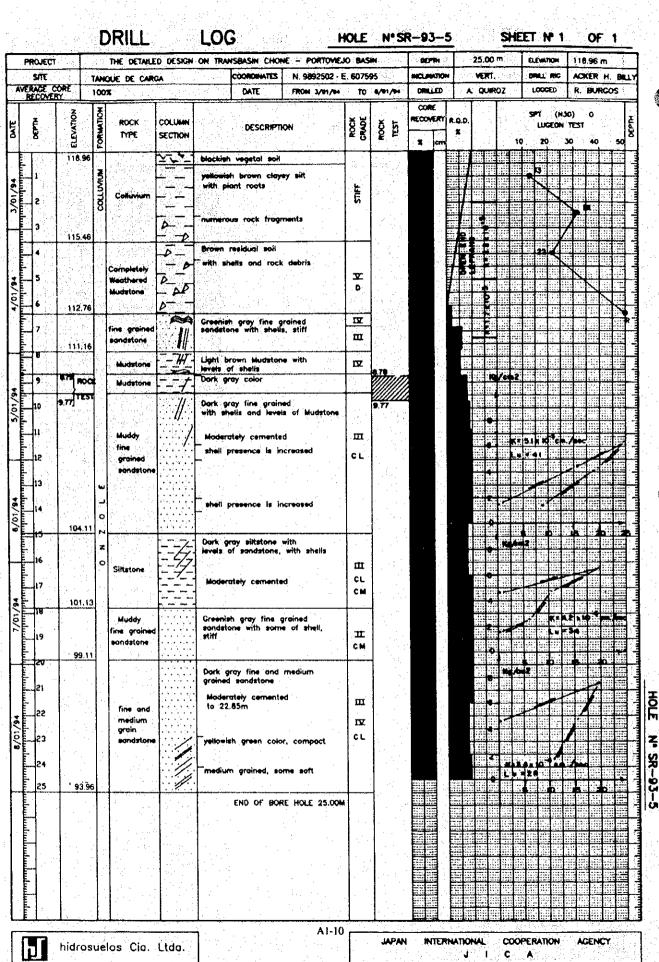






		OVECT					ON TRANSBASIN CHOME				007714	40.00 m	ELCWITCH	135.03 m	
		SITE AGE CI COVER	ÓRE Y	P. 1	IONDA PATA	DE PAIN	· · · · · · · · · · · · · · · · · · ·	N. 98979191 FROM 29/11/93	<u> </u>	<del>مر</del> مد به مدهمه	DRILLED	F. LINDAD	LOCOED	ACKER TEREDO	
DATE		DEFIN	<b>ELEVATION</b>	FORMATION	NOCK Type	COLUMN SECTION	DESCRIPTION	1	ROCK CRADE	ROCK	CORE RECOVERY	x	SPT (NJ LUCEON 10 20 3	0) 0 TEST 30 40 50	HL-30
		1	135.03 133.03	COLLINAIN	Collunium		weathered Mudstone fre brown sitty matrix	ogments	STIFF			影為無難業制 第一個要要要用 1111日第一個要要要用			لسانعكمنا
		2					Very weathered yellowis brewn Mudstone	h.	· .						untrut
28/11/82	يتسلس	3 ( ) 1 ( ) 2 ( )			Completely		residual cloy	an galar Silan ar							سلنساء
29/1	III III	4			weathered Mudetone				T						turn tu
		5							E						يتعلين
	un terret	6													
	ئىرىياس	7													
2	ليتري	8	126.73					· · · · · · · · · · · ·							
E		9				1-4-	Greenish gray Mudstone rock with troces of shi levels of situations	ell and	n ar Tar						m
1.1	بالسامينان	10					Bedding - horizontal								سأسط
		11			Mudstone				ш						
24 24		15					some shells included		CL						in line
ŀ		13		ש   ب			A AM A AM								
		-	121.23	0 N			Greenish gray shaly fin grained sondstone with	ve							لسلسا
	La	15		z			gramed sondstone with traces of shells								سراس
		16					Massive and compact								
/12/93	سلسبلس	17			fine	· · · · · · · · · · · · · · · · · · ·		. 1	ш						يتبلينا
1	in the second	18			grained sondstone				IV					「「「「」」」。	لسلسا
	in the second	19							CL						-
	in the second	20							· .					の単態神聖	
	in the second	21	113.83				some whells included		. 						
	ليسيد	22			Mudstone		Greenish gray Mudston traces of shells and li siltstone		ш						
	-	23	111.53				Bedding – horizontal		C L C M						- 2
	ահամ	24			an a	·	Greenish dark gray	· · · · · ·						4番頭 5章	
	بسكسك	25			Sondy Mudatone		horizontally laminated		ш					3節,羅羅羅	
2/12/	ساوسليسكيت	56					to the depth of 28m		CL			(単単) (単一単) (単一単)		9宏葉菜業 5.簡簡電率	
	him	27				·			CM			「「「「「」」「「」」「」」」。		4萬萬葉葉	
-	ŧ-	28					with sandy character	· .				「三日日」	▋ <b>▋</b> ₿Ŝ₿ ▋ <b>₽</b> 4₿	병별,많은 연 명 별, 많은 연 명 별, 많은 연 문	
3/12/9	بلسليه	29					Massive			-				は思いていた。	
	Ē	30	<u> </u>	<u> </u>	<u> </u>			A1-8		<u> </u>					<b>.</b>
	L		hidros	uel	los Cia.	Ltda.				JAPAN	INTERN	이번 영상 이 같은 것 같아.	A	AGENCY	

PROJ	ECT	• 				SBASIN CHON				R-93-4	_	40.00				OF
SIT		Ρ.	HONDA PATA	DE PAJN	ю	COORDINATES	N. 98979191			INCUNATION		VERT.		DRILL RIG		ERT
RECO	CORE MERY		100%		<u> </u>	DATE	FROM 29/13/1	3 T	0 7/12/03	CORE	F.	LINDA	<b>NO</b>	LOCCED	R, 8	-
DATE	ELEVATION	FORMATION	ROCK	COLUMN SECTION		DESCRIPTIC	₩ ₩	ROCK	ROCK	RECOVERY	R.O.D. X		10		N TEST	•0
31					Mossive, cemente	, moderately id		· · · · · · · · · · · · · · · · · · ·								
12/23					32.3 ~	32.5 soft		m							a veç	
7			Sondy Mudatone			et a tra		CM	<u>13.00</u>				3			-
3 34	33.54	TEST	in de la composition de la composition de la composition de la composition de				÷.		\$3.50							
5/12/05							·. · ·									
8 36	100	- + -		í								0				
26/15/85 37		-  u  _			troces a	n gray, silty fil sandstone, will of shell	· · · ·									
		0	fine grained		Bedding	– horizontal.	compact	: пп			1					
al		z	sondetone				an an an An An	CM							0 = 10 7 e	
21/2 39	95	03												HCI	49	
					Đ	ID OF BORE H	OLE 40.00m		<b>{</b> .			4				
							1. 1.									
																1
							· · · · ·									1
			a far dar An an													
dunda.																
all in the second						·										
							in an									1
						ali e Partici										
- Line		9 				· · · · ·										+
							ta a s t		alter e							
								.  .								+
									· .							
	기가 기가의															Ţ
																ŧ
			os Cia.	•			A1-9		JAPAN	INTERN	ATION	Al	COOP	ERATION	AGEN	
<b>LFT</b>		SUCI	<b>55</b> Cid.	L(00.			an in sain Sinta	L	1.35		J	- 1-2-	C	A		



· ·

	PROJECT		j. 1	THE DETAIL	ed . Design	ON TRANSBASIN CHONE - PORTOVIE	JO BAS	Sin	DEPT
	SITE		P	HONDA - E	ST. CUAL	ABE COORDINATES N. 9878507	E. 590	569	INCLINA
	RECOVE	XORRE RY		1005	<b>4</b>	DATE FROM 21/11/03	T	0 27/11/43	ORILLI
	r	ð	₿	ROCK	COLUMN		× 4	1.	CORE RECOVE
DATE	E.S	ELEVATION	FORMATION	TYPE	SECTION	DESCRIPTION	ROCK	ROCK	
			5		v		Ļ	ļ	
	F.	117.62		en generale i. En de la compañía	-P-P	wegetal soil Weathered and axidated	1	· ·	
	E1'		Ę		<u>0</u> <u>0</u> <u>0</u>	clastic of brown sitty fine grained	STIFF		
	E_2		COLLINNU	Colluvium	5-7	sandstone in sandy silt matrix	2		
5			8		<b>-</b> -				
21/11/95	<u> </u> ]	114.62	_				+	4	
្តែ			Г.,		1.1 × 1				
			25	Completely		Weathered yellowish brown silly fine grained sandstone			
	5			Wheathered fine grained		Bedding — horizontal			
			l .	eondstone			<b>∑</b>		
	6		ŀ		<u></u>	intensively weathered and disintegrated	E		
	,		1.5						
		<b> </b>					ļ		
	<b>-</b> 8				==	Completely weathered yellowish brow		]	
	E),		÷.		==	Mudstone in cloyey silt matrix			
	Ē]	<b>.</b>		Completely		Decomposed into	Σ		
11/13	10			Weathered	EEB	residual soil			
				Mudstone	<u></u>		E		
3		a see t	<b> </b> .			andy character			
	E_12	al desarda Alexandria	1						
			<b>.</b>			the sandy character disappear		1.1	
	<u></u> _13		.			Drilled without water circulation	1.1		
	14		1				+	- ·	
H			5			Highly weathered greenish gray Mudstone, with trace of shells		ļ .	
	15		0	Highly Weathered					
	16		N	Mudstone					
23/11			z			Toxidated levels	0		
1	17		0		EEI				
.	<b>[</b>	100.12					+	4	
						Sound greenish gray Mudstone	-	•	
	E 19		10		$E^{2}F$	Bedding - horizontal			
11/93	Ē			la telli i Seculate di	Ent		÷ .		
24/1	E50			Mudstone		eandy character and			
	21		ŀ			traces of shells			· ,
						-the sandy character disappear	ш		
	<u></u> 22		1		EEE	Bedding horizontal, compact	CL		
							D		
	E_23				===				
	E Pa	93.62	<u> </u> `		===			24.10	
25/11/83	E	24.35 TES	ŧ.			gray sound muddy			
5	<u></u>					sandstone, compact		<b>69.33</b>	
17	E 26	3.35 B		fine groined					
				sondstone			L III	· ·	

..... 11 H 17 K = 5 11 :::: ŧ .....

R. 1448

COOPERATION

N -1 1.1.1 

HOLE

z

MG-93-1

- - 4 

11

1.11

AGENCY

Ы hidrosuelos Cia. Ltda.

Hud

traces of shells, some sondy Badding — horizontal

Moderately cemented

20/11/03

INTERNATIONAL COOPERA J I C A JAPAN 

ш CL

AI-11

SHEET Nº 1 OF 2 ELEVATION

DRUL ING

SPT (N30)

LUCEON TEST

LOCCED

20 30

đ

ie

H

ΗŤ

10

117.62 m

ACKER TEREDO

R. BURGOS

DEPTH

1

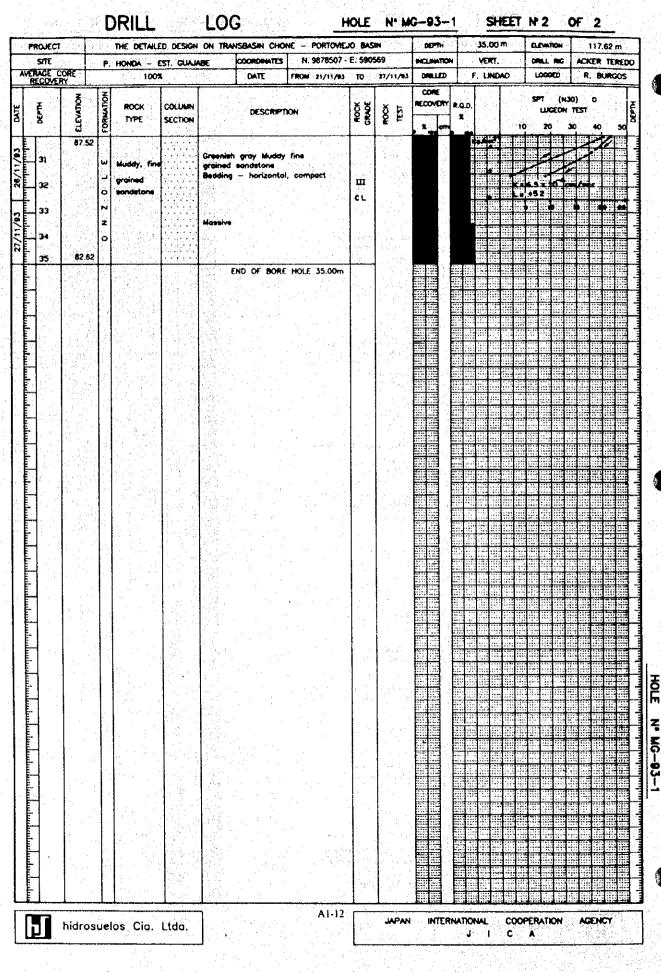
0

40 50

35.00 m

VERT.

F. LINDAO



100	

PROJECT

SITE AVERAGE CORE MANCHA GRANDE

94%



-		·.
	•	

DATE			ELEVATION	FORMATION	ROCK TYPE	COLUMN SECTION	DESCRIPTION	ROCK GRADE	ROCK	RECOVER1	×			10	ين 20 المالية	
		1 1	122.98			ν	vegetol soil Yellowish gray cloyey silt with some fine groined sand and	• •								
		2		MUM		ھ ھ ھ	mumerous weathered rock debris	STIFF								
		3		COLLUMUM	Colluvium	~_ <b>~</b> _~	sandatione	Ň	1							
		<b>4</b>				- 4 - - 4 - 4									1	
		5	117.38				Weathered yellowish gray debris of sandstone and sittstone									
	سلسماسي	6 7			Completely Weathered Mudstone		Weathered brown sity fine grained sandstone, residual Decomposed into soil Drilled without water								*1	
	لسياسك	Ð	115.18	-			Groyish brown weathered shale with sondy levels									ł
	in the second se	9					sondy levels disappeor	х р		ð						
	سلسله	10 11					Decomposed end disintegrated into residual soil	U.								
	يليساسي	12			Completely Weathered		very weathered and oxidated									
	اسلسطي	13			Mudstone											
	فليسلسل	14						X								
	minutur	15						D D								
	ماسلساس	16 17		- E			Drilled without water circulation	· ·								
	سالسلس	18	105.18	÷ .			Weathered Yellowish brown	 								
	ىلىرىلىسە	19		c			sility fine grained sondstone. Drilling cores are mostly fragmental	r.		RE IND						
	سلسلي	20 21			Highly Weathered fine groine	d	Weathered	D								
	un un un	22			Sondatione		Soft, core samples are crushed at places	CL								
	سياسطي	23								-	·					
	ասհուր	24								100 C						
	سليسلي	25			Weathered		Muddly Caré samples are broken into									
	سليسلمينه	27	95.4	8	fine Sondetone		fragmients or short cores	D CL								
	يسليساير	28			Weathered		Yellowish brown Mudstons, Weathersd, with oxidated joints									
	علىسيلىسيل	-29			Hudstand				2 E							
ן 	Г Г		hidro	sue	los Cia.		AI-1:	·	JAPA	n inte	RNATIC	DNAL		OOP	1.1	TIC
l											••••••		.C		<b>A</b>	-
								el Transi Transi								

THE DETAILED DESIGN ON TRANSBASIN CHONE - PORTOVIEJO BASIN

COORDINATES N. 9882195 - E. 589395

DATE FROM 10/12/03

DRILL SHEET Nº 1 OF 2 HOLE Nº MG-93-2

TO #/01/M

DEPTH

INCLINATION

DRILLED

45.00 m

VERT

F. LINDAO

ELEVATION

LOCCED

122,98 m

R. BURGOS

DEPTH

50 40

: ## I

-

1.11.112

land and

لسطيينا ...

- Per ....

HOLE

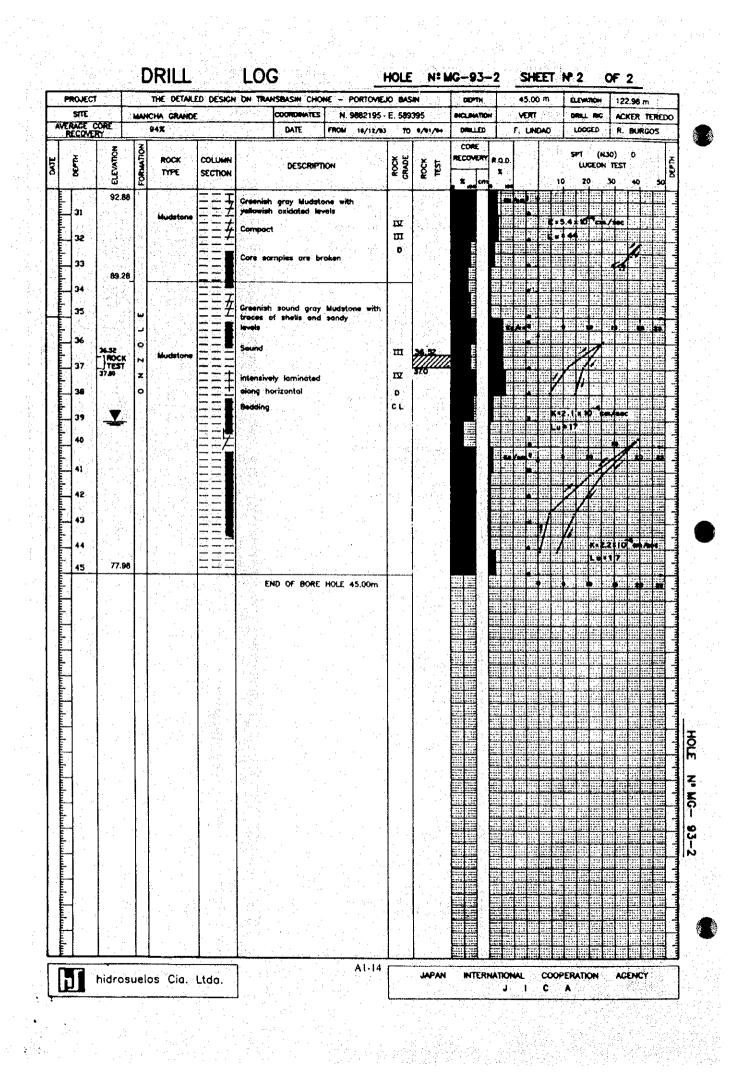
z NG-

93-2

ulu

AGENCY

DRILL NIG ACKER TEREDO



lacksquare	

PROJECT

	P	ROJECI	π		THE DETAIL	D DESIGN		ISBASIN CHO				00
		SITE	-	hệ	NCHA GRANDE			COORDINATES	N. 9662339 - 6			HCUN
Ľ	AVEI 	ECOVE	CIRE BY	9	97.	•		DATE	FROM 10/12/03	TO	15/12/03	DRIL
	Γ	•	Ň	Ş	5					<b>y</b> u		COR
DATE		¥L	ELEVATION	NOTANAOS	ROCK	SECTION		DESCRIPTI	ON	ROCK GRADE	ROCK	}
		· · · ·			2						·	
	E.	-	95.0					brown sandy f weathered				
	-	1	· ·		Silt			w Constanting	4.00		ļ	
	Ē	5					Numeros gravels	us debris ond	1			
12	E	ГС.	· .	5	•			h brown fine	grained	STIFF		
10/12/01	Ē	3	- 10 Te - 1	·   =	a, <sup>'</sup>		T sitty :	bood	•	5		
è	÷.	_		-		ید. ۱۳۰۶ میزند ا	Claye;	y levels				
	F	4	4		Cicyey	1.20	E level.	of debris				
	Ē	5				۲. دوره در به در این رو در در در این	- some	debris				
	Ē				<b>1</b>		Gray		· · · ·			
	L.	6		*	Muddy	5 (S ) (P )		ining rock		STIFF		
	Ē.				JUNNU.	1.2.2	fragm			5		
	L.	7							· · ·			
	EL.	1.1			Sift		Greenist	n gray sondy	silt			
3	Ē	8				بهندين و		t volconic ro			l	
11/12/93	E	9	a.a.)90	i s	T Sond		Grayish grained	brown sitty f	ine	SOFT		
2		1					granna	June		Ň	Ì	
	Ē-	10		i	sint	┝_╸╴	dork gr	ay sandy sof	sitt			
-	ŧ			tionen Lionen		[				<b> </b>		
		11		j.				n groy silty f th some of i		STIFF		
5		12	 	3	Sond		blocks		,	LS .		
12	E	μ <b>ε</b> 								L .		
1		13 .					Greenist	n gray sandy	Soft Sift	SOFT		
1	F			đ	5		Brown s	silty fine som	s with			
÷	ŧ	14	ł					and gravel	1			
	E.	15								}	<b>?</b>	
2	Ē	1 <sup>13</sup>					some g	h gray silty s ravels	and with	<u>ц</u>	:	
12/93	عليسلة	16	1		Sand					STIFF	· ·	
/21		1:			1			brown sitty i sond with w		.	İ	
	-	17						bris and gro				
	ulu.		ľ.,			12. 3. 2.						
1	in the second seco	18 .		<u> </u>			1	$(2,2) \in \mathbb{R}^{n}$				
	F	19	76.	10	+		1 waath	ad blocks on		├	ţ	
	سأسيد		1				•	ad biocks on ogments	<b>u</b>			
	Ľ.	20	· ·	1			Weather	ed debris of		1		
\$	i line	21	1.	· .	Completely	EEE		e grained sa vish brown si	ndstone: Ity sand matrix	·	, .	
20/11/11	,E	Γ.			Sandstone	222				x		
	Ē	22	1 .		5 Sandstone					D		
. [ :	- Line	1				Fee	Greenis	h gray color		<sup>-</sup>	ľ .	
1	<u>, E</u>	23			1.1.1	<b>—</b> —		without water	· ·			
10/0	1	24	.71				circulat	(1981)	·	<u> </u>		
a /13	SE.		24-20 }	NOCK TEST	fine groined		4	h gray silty f ine, some so	-	IV		2
Ľ	T.	52		.00	sondstone	<b> </b>	<b> </b>	·	·	D-CL	24.52	
Ì	uniu						1	END OF BORE	HOLE 25.00m	1	1.	
- E.	E	1 .	1	- F	1	1	1			4		- herefter

LOG

THE DETAILED DESIGN ON TRANSBASIN CHONE - PORTOVIEJO BASIN

DRILL

SHEET Nº1 OF 1

SPT (N30) 0

LUCEON TEST

**ELEVATION** 

ORILL ING

LOCCED

10

i.

12

25

10 20 30 40 50

95.00 m

R. BURGOS

ACKER TEREDO

DEPTH

25.00 m

VERT

F. LINDAO

1011

K-ILDL KO-

× • • • • •

2- Qi \* B

19 ×

- 17

ю

ŗ,

1

COOPERATION

C

2

MUTULI

ndun

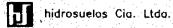
R.Q.D.

\*

HOLE NºMG-93-3

DEPTH





A1-15 JAPAN INTERNATIONAL J I

AGENCY

# Appendix 2

# LUGEON TEST

