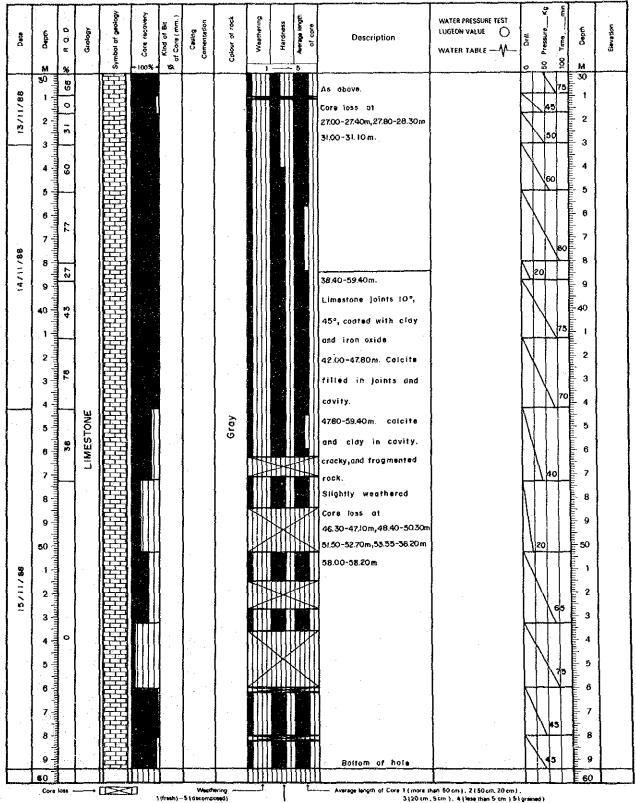
LOG OF BORING ____

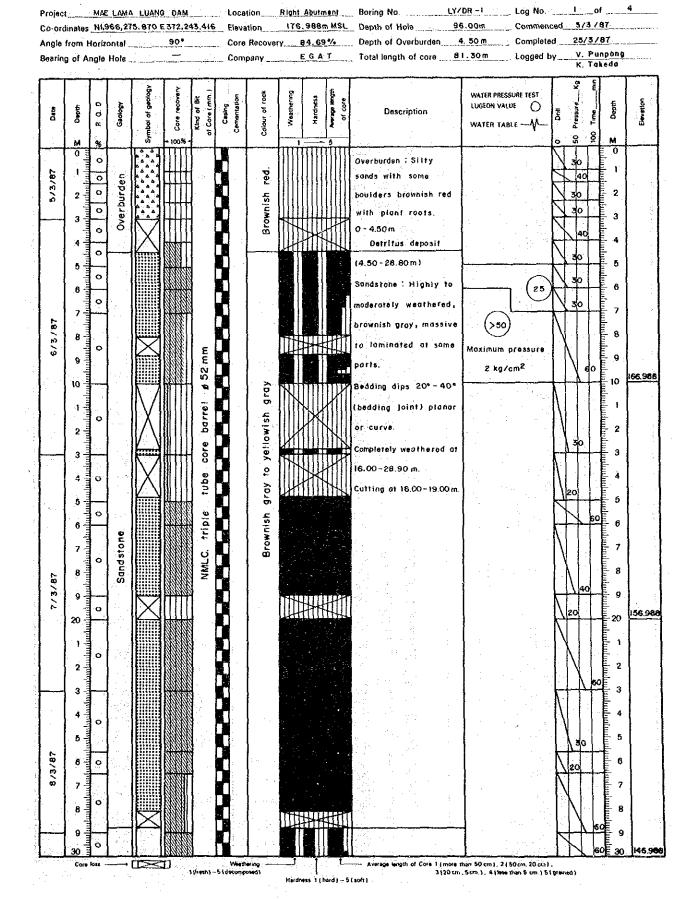
NAM NGAO DITE No. 2 Location QUARRY Project____ Bearing of Angle Hole _____ Company _____ EGAT ____ Total length of core ______ Logged by

Boring No. _____ Log No. __2___of __2___ Co-ordinates N1.966,848.595 E 394,537.847 Elevation 342.581m MSL Depth of Hole 59.40 m Commenced 9/11/88 Angle from Horizontal 90* Core Recovery 74 % Depth of Overburden 10.20 m Completed 15/11/88 V. Vicharn K. Takeda



Hardness 1 (bard) - 5 (soft)

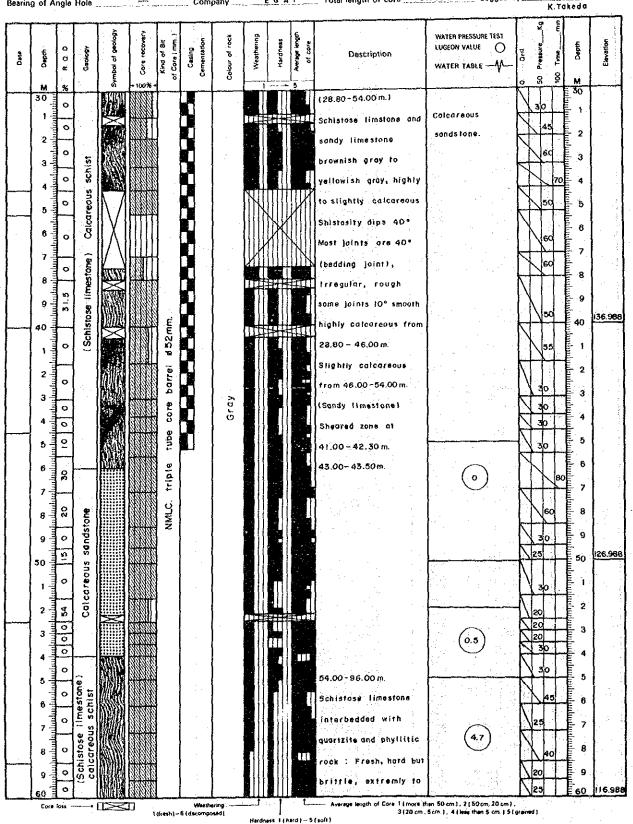
B-3-(2) MAE LAMA LUANG SITE



Project MAE LAMA LUANG DAM Location Right Abutment Boring No. LY/DR-I Log No. 2 of 4 Bearing of Angle Hole _____ Company ____ E G A T ___ Total length of core ____ 81.30 m ___ Logged by ___

Co-ordinates N1,966,275,870 E 372,243,416 Elevation 176. 988m MSL Depth of Hole 96.00 m Commenced 5/3/87 Angle from Horizontal 90* Core Recovery 84.69 % Depth of Overburden 4.50 m Completed 25/3/ 97

V. Punpong

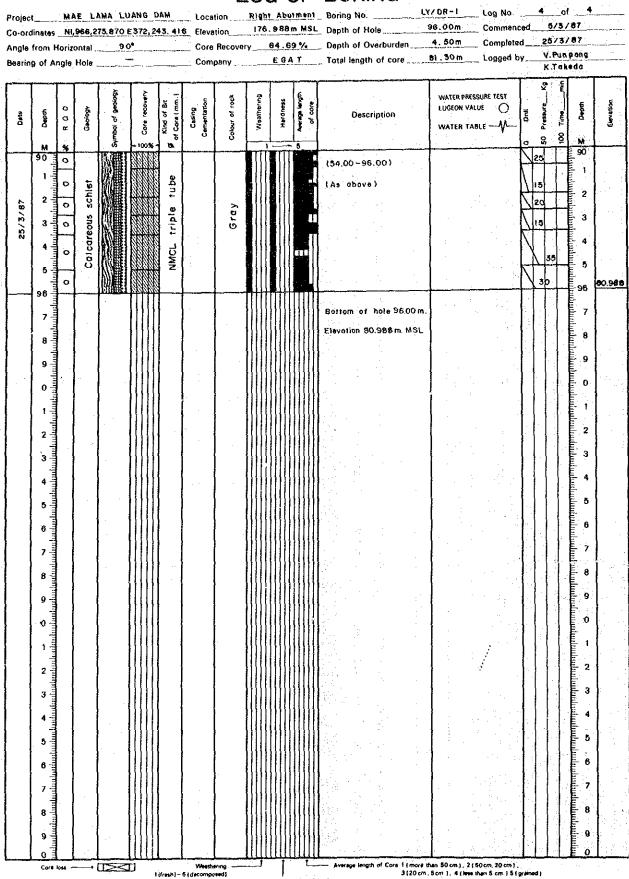


gle from Horizontal	5,275,850 E 372,243. 90*	Core Recovery	84.69%		.50m Completed	25/3/87
aring of Angle Hole	•••••	Çompany	EGAT	Total langth of core9	Logged by	V. Punpong K.Takeda
Carte Depth R. R. O. D Seology	Symbol of geology Kind of Bit Af Cross ecovery	of Core (mm.) Cashing Cementation Colour of rock	Woothering Hardness Aereae length	Description	WATER PRESSURE TEST LIGEON VALUE O	50 Pressure Kg 100 Time Min
25/3/6724/3/8723/3/8718/3/8718/3/8717/2/6718/3/67 0	Million and a second se	Gray		highly fractured. Schistose limestone :- gray, maderately show schistosity highly to stightly calcareous Phyllitic rock : - slightly to non calcareous schistosity dips 40°-50° Most joints 40° (bedding joint) some joints 20° plonar or curve ; sheared zone at 54,50-55.00 m. 83,40-83.70 m. 39,20-89,40 m. 86,70-86.90 m. 95,20-95.80 m. Highly to extremiy fractured at 57,00-64.80 m. 65,20-75.00 m		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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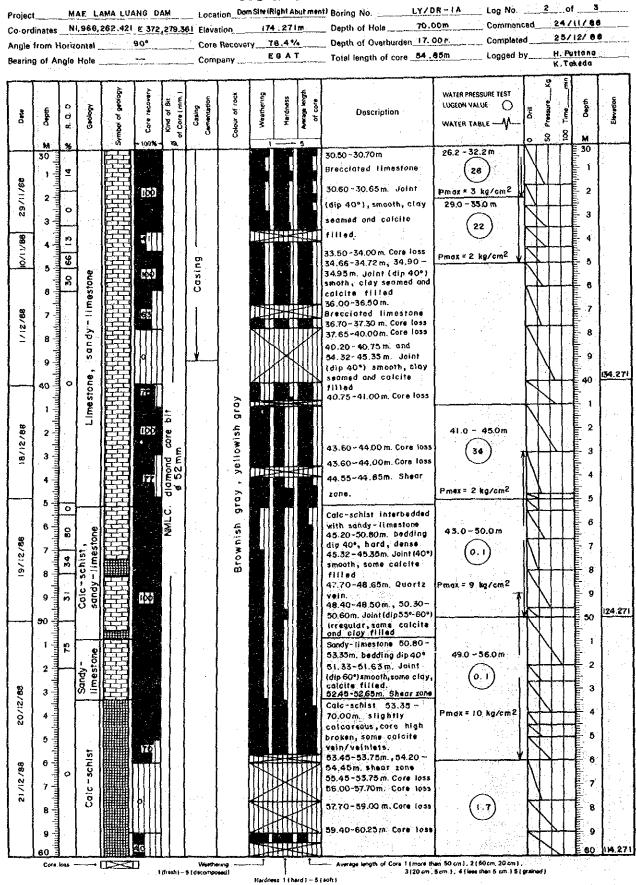


B - 46

Hardness 1 (hard) - 6 (soft]

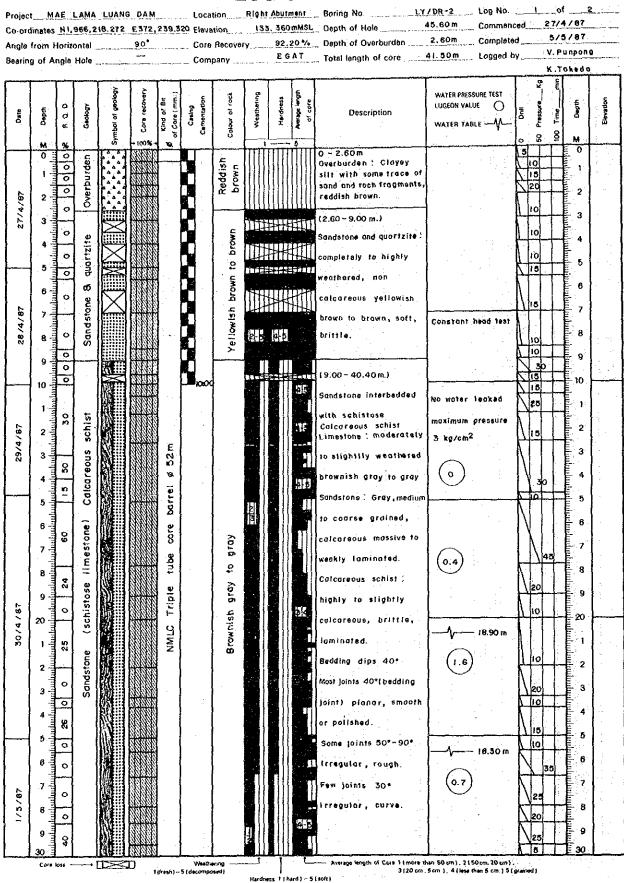
Projeci Co∙ord				4A LUA 2.421 E	\$72,279		Eleva	ation	174.	271m	MSL		0.00 m	Commenc	ed	24/11/	80
-,	from H g of Ar				10°			⊳ Racover ⊧panγ						Completed Logged by	/H	<u>20/12/</u> .Poitona .Takeda	-
Date	Cepth	0 0	Gactogy	Symbol of geology	Core recovery	Kind of Bit of Core (mm.)	Casting Comentation	Colour of tack	Weathering	Hardness	Average length of core	Description	WATER PRESS LUGEON VALU WATER TAB	⊮ O	50 Pressure Kg	100 Time min	
24/11/88	¥O1 2 3 4 5 8 8					Tungsten corbide bit		Reddish brown usoud usimo Notion		A manual A manual		Overburden 0.00-17.00m 0.00-5.00m. Clayey sand silty sand and loose block of quartz schist, quartzite. 5.00-10.30m. loose bloc of quartzite, quortz schist	K=1.66 x 10	е — 2 1 Ал		- monodandardardardardardardardardardardardardard	
23/11/88	7 B 9 10 1 2		Overburden		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			Pale brown				9,00-9,70m. Core loss 10.30-15,00m. medium sand, loose	K=1.38×10 ⁻ Constant he			9 10 10 10 10 10 10 10 10 10 10 10 10 10	6
837	3 4 5 6 7				1 <mark>63</mark> 1	mond core bit 2 mm	Casing	Brown				15.00-15.50m. loose block of schist and quartzite 15.50-16.70m. loose block of LS. 15.65-16.00m.Core loss 16.65-17.00m.Core loss	K=9.00 x 10 Constant he	1 - E - E - E		ahminga and and and and and and and and and an	
	8 1	20	 		1621	dian 522	i i T	an an Pr				Limestone, sandy-limesto 17.00 – 54,20 m.	•		$\mathbb{N}^{\mathbb{N}}$	8	
26/11/88	adamhadamhadamhadamhadamhadamhadamhadam	0 16 0	sandy - II mestone			JIMN		Yellowish gray				bedding dip 30°-40° highly weathered at some part, some calcite vein/veinlets 19.85-20.20m Care loss 20.50-21.00 m brecciate limestone 21.30-21.60m Care loss	K≈ 9.00 × 10	[]		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
88	8 6 4 buluntun bulun	8.1	Limestone, sandy									23.65–24.00m Core 1055 24.70-2525m Core 1055				4 11115 11116	
28/11/5	8 8 30 2 8 8 4 Annhanhanhanhanhanh	40						Brownish gray yellowish gray				27.94-27.98 m. 28.26 - 28.35 m. Joint (dip 40*) smooth, some cley and colcite filled		ad test		2 8 9 9 100 100 100 100 100 100 100 100 100	

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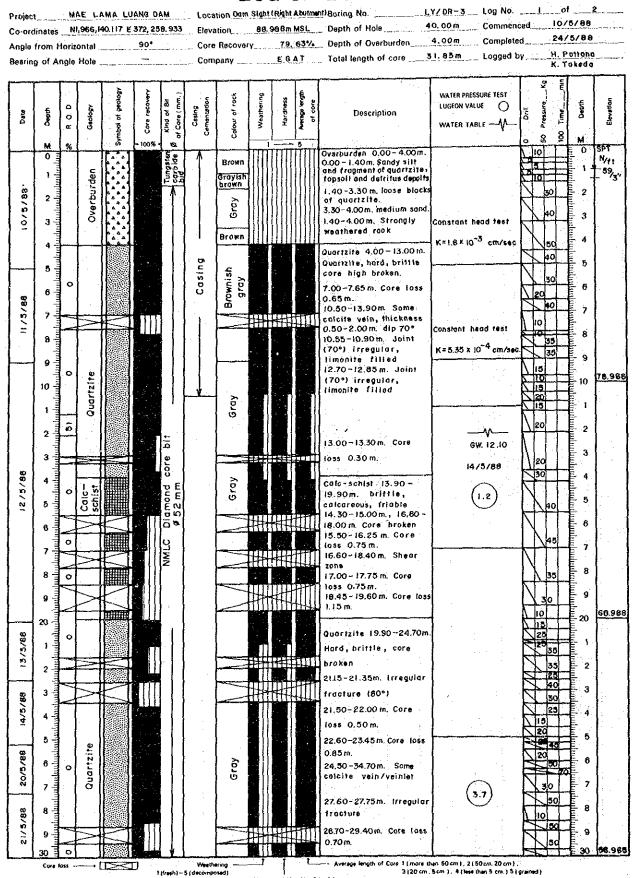
Project MAE LAMA LUANG DAM Location Dom Sigh(Right Abutment)	Baring No. LY/DR-IA Log No. 3 of 3
Co-ordinates N1,966,262.421 E 372,279.361 Elevation 174.271m MSL	Depth of Hole 70.00m Commenced 24/11/88
Angle from Horizontal 90° Core Recovery 78.4 %	Depth of Overburden 17.00m Completed 25/12/88
Bearing of Angle Hole Company EGAT	

Date	M Depth	8 0 D	Geology	Symbol of geology	Cora tocovery	Kind of Bit of Core (mm.)	Casing Cementation	Calaur et rock	Weathering	Hardness	Average length at core	Description WATER PRESSURE TEST	Elevation
21/12/88	60 1 2 2	*			2:0 (3:3 [0]			sh gray			•	60,75-61.75 m Shear zone 61,10-61.45 m. Core loss (1.7) T	
24/12/88	3 4 5 6 7		Calc – schist		50 50 50 70	NMLC diamond core bit # 52 mm		ish gray, yeilowish				66.00-66.50 m. Core loss	
25/12/88	8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				155 7(5 11160	MN		Brownish				67.0-69.25 m. Core loss 68.50-68.70 m. Shear zone 69.00-69.40 m. Core loss 69.95-70.00 m. Shear zone 1.4 9	04.271
												Battom of hole 70.00m 1 2 3 4 4 5 8 8 1 2 3 4 4 5 6 7 8 9 0 0 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
Core loss													



				210,272								Depth of Hole	2.60m Complete	od 5/5/87	
ស្នោទ ។ នាវិរាល	rom H	ioriza nela	ntai . Hola					Recover				Total length of core		· · · · · · · · · · · · · · · · · · ·	
														K. Takeda	
Date	W Cepth	ы со н К	Geology	Symbol of geology	Core recovery	<pre>Kind of Bit of Core (mm.)</pre>	Casing Comentation	-Colour of rock	Wcathering	Hardness	de Average length af core '	Description	WATER PRESSURE TEST LUGEON VALUE O WATER TABLE	0 Dnill 50 Pressure_Kg 100 Timemun	Elevation
	30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 02	cate schist									(9.00-40.40 m.) Sheared zone at			
19/6/2	ampartanta 3 4	0 35 33	limestone) c			ø 52 mm		gray				10.40-10.60 m. 14.50-14.90 m. 36.00-36.30 m.			
	9 Տուլյու վույկումը Լուլիու վույն	0 0 50	(schistose li			re barrel		gray to				37.60-38.10 m. 39.60-39.80 m.	19.61 m	30 5 30 6	
10/0/4	2 10 10 10 10 10 10 10 10 10 10 10 10 10	0	Sandstone . (e: tube core	-	Brownish			416) 416)		0.7	15 7 20 8	
	9 40 40	15 00		X		NMLC Triple	-		111			40.40 - 45.00 m.	Constant head test	15 40 20 40	
	- 2 3	0	scrist Limestone)			ŴN		owish gray gray	<u>(</u>		SE	Schistose limestone : yellowish gray to gray, slightly weathered, thinly laminated,	from 10.00-45.00	15 15 15 15 10 3	-
	, 4 2 10110111111	0 0 0 0	Schistose					Yellowish to gray	122			calcareous, hord brittle: Most core are broken.		10 10 40 40	.
	6 minuta 1			- 2. 1.			· , 1					Bedding dips 40° Most joints 40° planar smooth or polished		بالسليد 1000 ماليداني 1000 ماليد	
	6 8 1010000000000000000000000000000000000											Sheared 2019 at 41.80-42.00 m. 43.00-43.25 m. 44.00-44.25 m.		8 111 111 111 111 111 111 111 111 111 1	
	0 1 1											801100 of hole 45.00m.		tion 0 hundred 1 hundred 2 dia	
	5. 3 <u>budanihud</u>														
	a b minuin		-			- 2	ی بر میر							4 111114	
	6 Thurthurthur Thurthur													7	
	8 9 1111111111111111													7 111111111111111111111111111111111111	

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₿ **-** 52

Herdness 1 (hard) - 5 (soft)

Project MAE LAMA LUANG DAM Co-ordinates NI.966,140.117 E 372,258.933 Elevation 88.988mMSL Depth of Hole 40.00m Commenced 10/5/88 Angle from Horizontal 90* Bearing of Angle Hole

• (1252))

Core loss ---

Weathering [{fresh]--5 (decomposed)

Location Dom Site (Right Abutment) Boring No. LY/DR-3 Log No. 2 of 2

Core Recovery 79.63% Depth of Overburden 4.00 m Completed 24/5/88 Company EGAT Total length of core 31.85 m Logged by H.Pottano

K. Takeda

ā of geologi **Uenece**. WATER PRESSURE TEST Kind of Brt of Core (mm.) len oth 20CK Weathering Casing Hardness Elavation LUGEON VALUE Core ٥ Gaology Depth Average H 5 Oate fadeo. Description Pressur ā ø 1 me Core Colour WATER TABLE -----Symbol œ <u>3</u>0 ŝ ы 30 30 30.00-31.40m. Soma Quart Gray ö 1 pyrite filled -1 31.45-32.00 m. Core НП 2 22/5/88 2 loss 0.55 m. Gray ā Quart zite 10.5 ó ٩N 3 3 – Sore 33.60 - 34.00 m. Core loss 0.40 m. ПП TTT puou 34.45 - 34.70 m. Core 4 4 Ē loss 0.25 m. 23/5/88 0 10 5 Calc-schist 34.70 -5 ñ 40.00m. brittle, core so co o Ч М М broken 6 6 36.35-37.00 m. Core Ш \mathbf{n} 7 loss 0.65 m. 7 Ш 37.00-39.50m. Coleschist 24/5/88 interbedded with R 8 auartzite Gray Calc -schist 3.2 37.15-37.80m. Core 9 9 loss 0.65 m 40 ŝ Bottom of hole 40.00 m. 48.988 15 40 40 -1 13 2 2 3 3 4 4 5 5 6 6 -7 7 8 8 9 9 Э 0 -1 1 2 2 3 3 -4 5 5 6 6 7 7 8 8 9 g

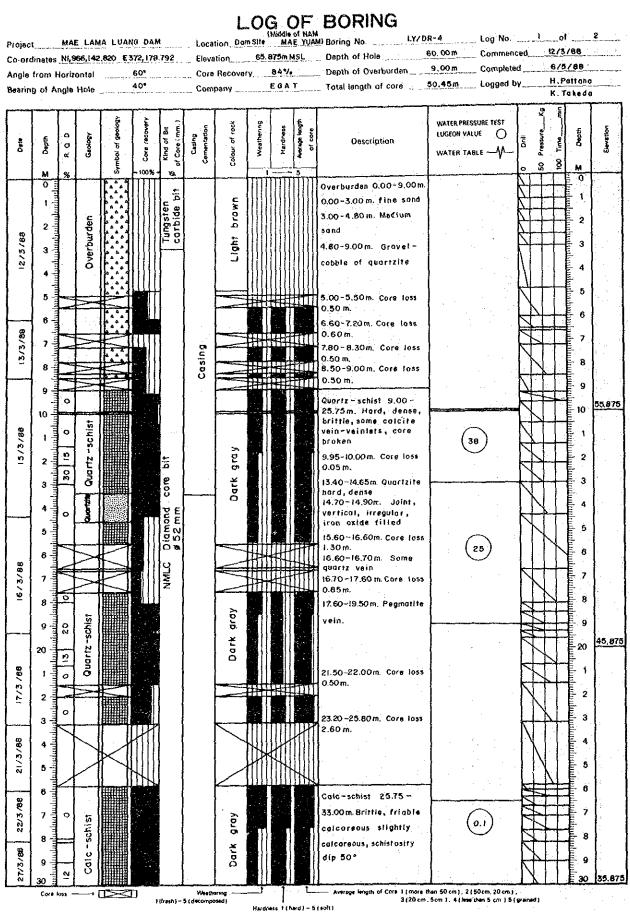
LOG OF BORING

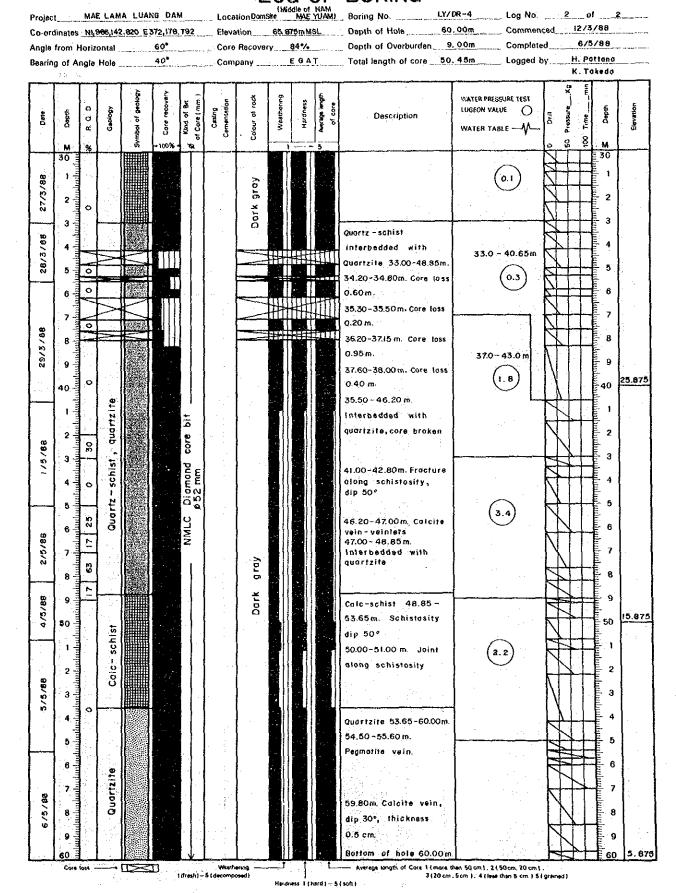
B - 53

Hardness (hard) - 5 (soft)

Average length of Core 1 (more than 50 cm), 2 (50 cm, 20 cm), 3 (20 cm, 5 cm,), 4 (see than 5 cm) 5 (pri

ed I



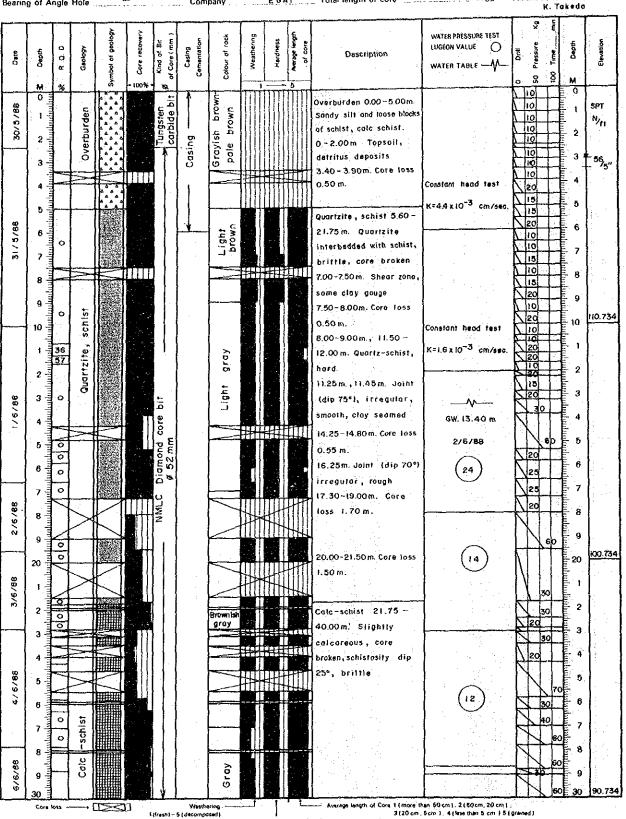


<u>B</u> - 55

Project MAE LAMA LUANG DAM Bearing of Angle Hola _____ Company ____ EGAT ___ Total length of core 33.20m Logged by H. Pattang

LOG OF BORING

Location Dom Site(Right Abatiment) Boring No. LY/DR-5 Log No. 1 of 2 Co-ordinates N1,956,224,832 E 372,147,309 Elevation 12.0.734m MSL Depth of Hole 40.00 m Commenced 30/5/88 Angle from Horizontal 50* Core Recovery 83% Depth of Overburden 5.00 m Completed 8/6/68



i(fresh) - 5 (decomposed) Hardness 1 (hard) ~ 5(soft)

Project MAE LAWA LUANG DAM Location Dam Site(RightAbutment) Boring No. LY/DR-5 Log No. 2 of 2 Co-ordinates N.I.966, 224, 832 E 372, 147, 309 Elevation 120,734 m MSL Depth of Hole 40.00 m Commanced 30/5/88 Angle from Horizontal _____ 90* Core Recovery 83% Depth of Overburden 5.00 m Completed 8/6/88 Bearing of Angle Hole Company EGAT Total length of core 33.20 m Logged by H.Pattana

K. Tokeda

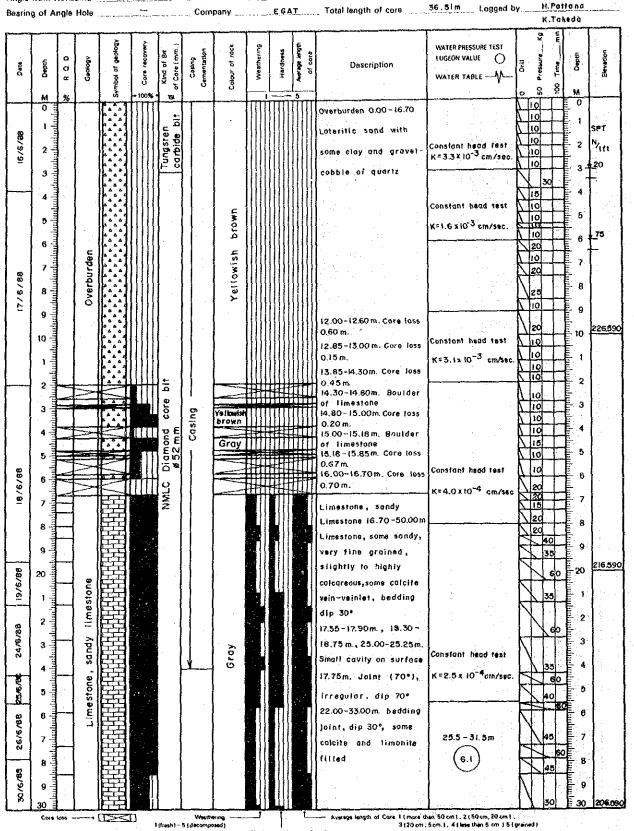
3 Symbol of peology Average langth Core recovery WATER PRESSURE TEST Kind of Bit of Core (mm.) Colour of rock Weathering Cementation į. Hardness of core Geology Elevation 00 LUGEON VALUE Depth Oate Depth Pressure Description 20 Ē œ 8 30 100% 10 N м × 30 30 30,30m. Joint (dip 70°) 6/6/88 0 1 ١ rough, irregular 0 3.4 2 : 0 2 ò 33.15 m. Joint (dip 70°), 30 3 З planar. Calc - schist o Diamond # 52 m Gray 4 34.85m. Joint, vertical, 4 8/8/88 irregular, sligtly 5 5 -0 rough NMLC 6 6 0 7 7 0 8 8 70 39.30-39.60 m. Core loss 9 0 9 0.30 m. 80.734 60 (HEALTHE 12 6 ۵n 40 Bottom of hole 40.00m. 1 ŧ 2 2 з 3 -4 4 5 5 -6 6 -7 7 8 8 a 9 -0 0 -1 1 2 2 -3 3 4 4 5 5 6 6 7 7 8 8 ٩. 9 n 0 Average length of Core 1 (more than 50 cm.), 2 (50 cm.) 20 cm.), 3 (20 cm., 5 cm.), 4 (lase than 5 cm.) 5 (grained) Wettering Core loss

1(fresh) - 5 (decomposed) Hardness 1 (hard) - 6 (soft)

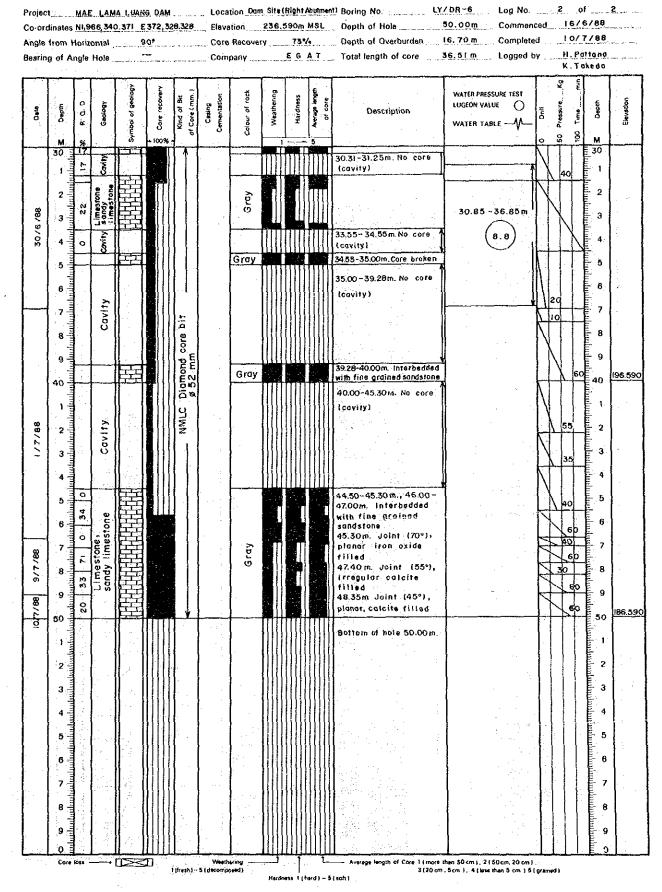
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Project MAE LAMA LUANG DAM Co-ordinates N1,966, 340.371 E 372, 328.328 Elevation 256.590 m MSL Depth of Hole 50.00 m Commenced 16/6/88 Angle from Horizontat 90° Core Recovery 73% Depth of Overburden 16. 70 m Completed 10/ 7/88

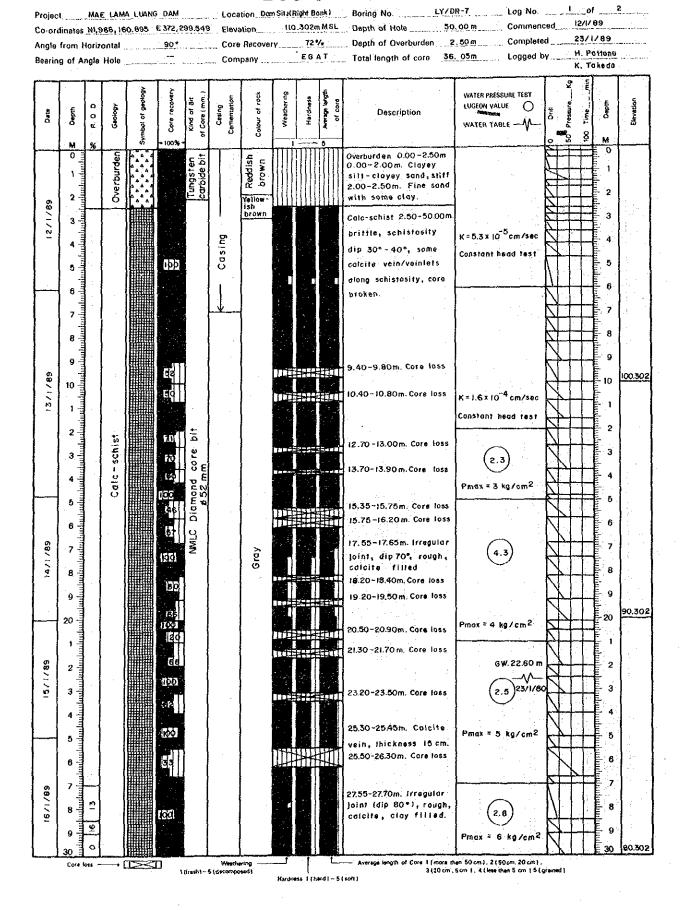
Location Dom Ste(Right Abutment) Boring No. LY/DR-6 Log No. 1 of 2 H. Pottona

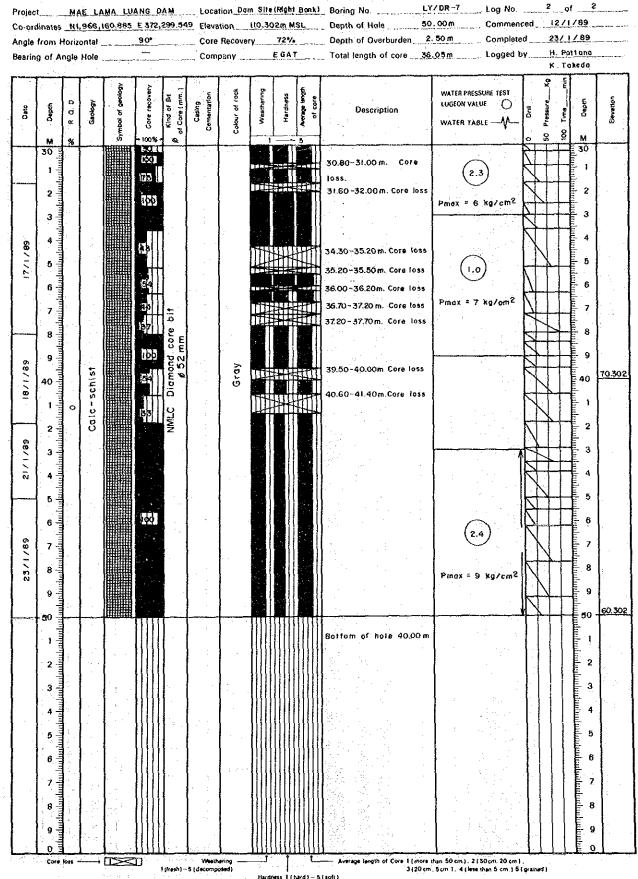


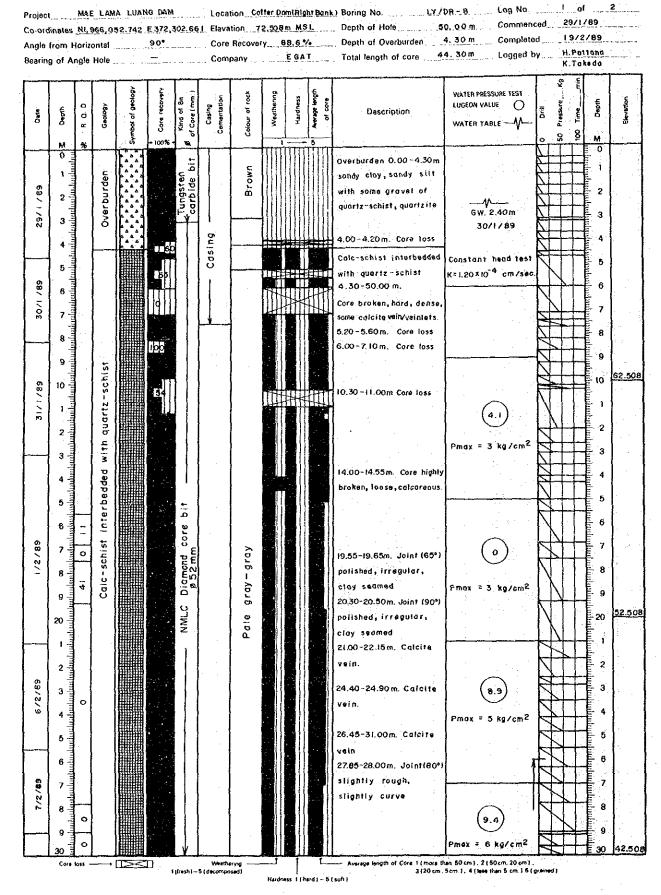
Hardonis 1 (hard) - 5 (sofi)

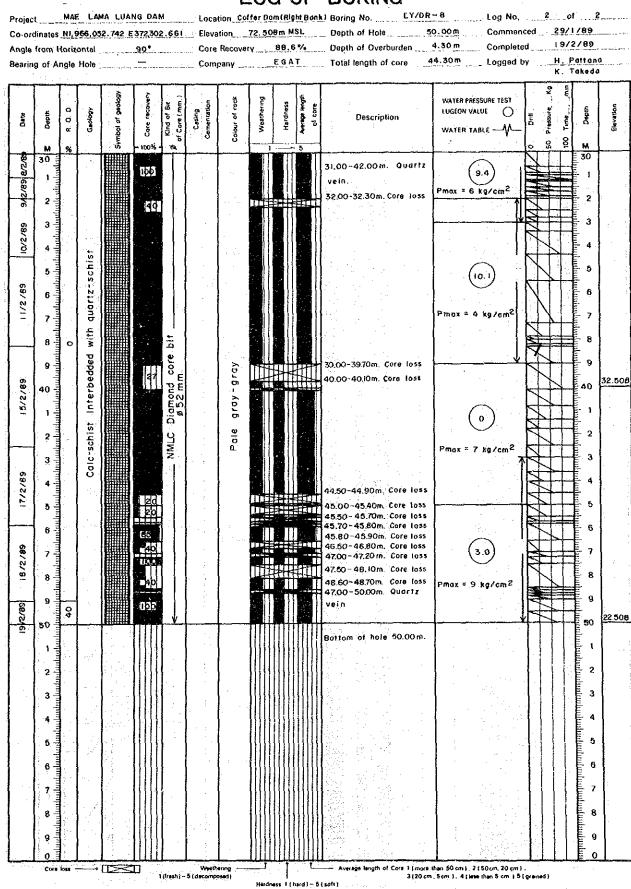


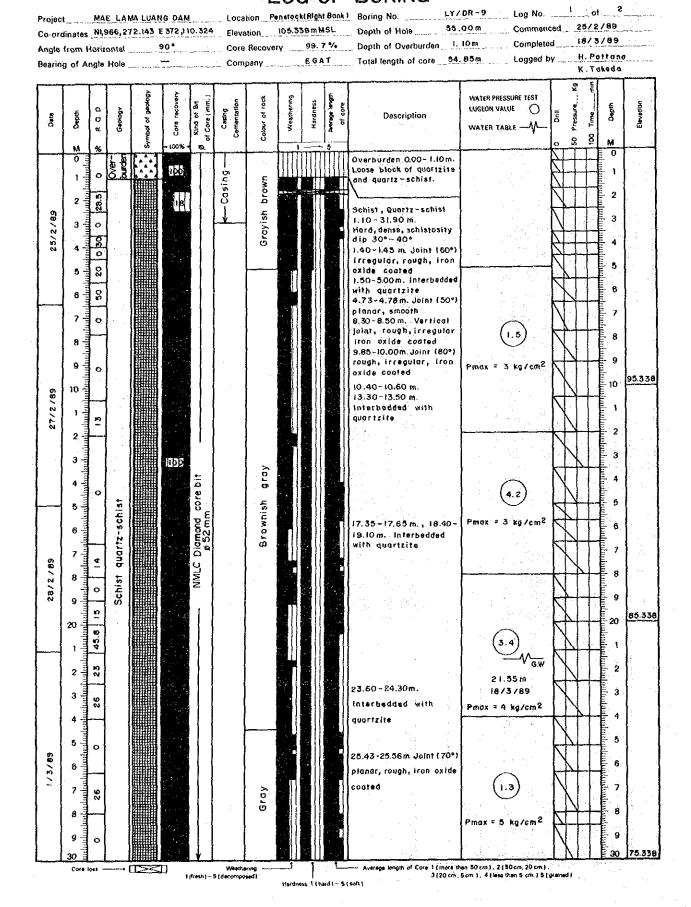
B ~ 59

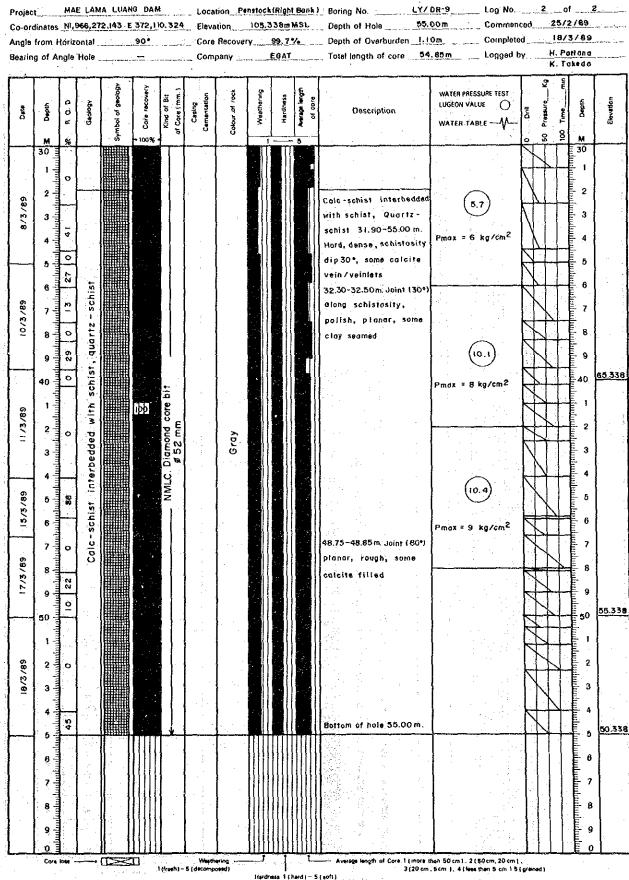












B - .65

Project NAE LAMA LUANG DAM Location Dem Axls (River Bed) Boring No. LY/DH-1 Log No. 1 of 2 Co-ordinates N1,966, 190.000 E 372, 163, 500 Elevation 61.928m MSL Depth of Hole 50.60m Commenced 9/2/87 Bearing of Angle Hole Company EGAT Total length of core 49,20m Logged by V.Punsong K.Tokeda

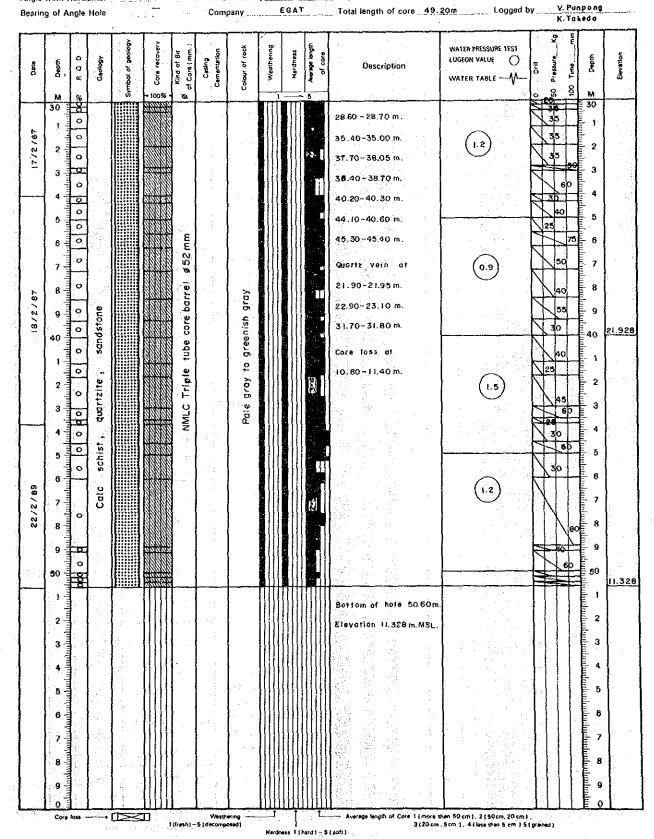
Date	Depth	ж. я.о. 0	Gaology	Symbol of peology	- Core facovery	Kind of But Ø of Core (mm.)	Casing Cerrioniation	Colour of rock	Weathering	Hardness	of core	Description	water pressure test lugeon value () water table	0 Dritt 50 PressureKg 100 Timemin	Elevation
9/2/87	6 8 2 9 4 2 3 4 0 3 4 0 3 4 0 3 4 0 3 4 0 3 3 4 0 3 3 4 0 3 3 4 0 3 3 4 0 3 3 4 0 3 3 4 0 3 3 4 0 3 3 4 0 3	0 0 0 0 0 0 0	Overburden (River deposit)					Yeilowish brown grey				(0 - 9.50m) Owerburden : Loose sand with some boulders of quartzite, size 10- 30 cm.	No. water pressure test packer could not be set	20 40 40 40 40 40 40 40 40 40 4	
16/2/87	ուստեսությունը 1 5 3 4 2 6 2 8 8 5 5 1 5 3 4 2 6 2 1 10 1 5 3 4 2 6 7 8 9 50 1 5 3 4 2 6 7 1 10 1 1 2 3 4 2 6 7 1 10 10 10 10 10 10 10 10 10 10 10 10 1	0	oic schist, quartzite, sandsfone duartzite			NMLC Triple tube core barrel # 52 mm		Pale grey to greenish grey				(9.50-50.60) Quartzite, schistose limestone and Calcareous schist Pale gray to greenish gray, fresh, very hard, massive to weakly laminated, highly to extremely fractured. Schistose limestone Calcareous schist (Slightly calcareous) at 11.30-14.50 m. 34.60-35.00 m. Some parts show tollation dip 45°-70° Most joints dip 30°-45° planar, smooth or rough. Some joints 70°- 90° planar, smooth sheared zone at	(1.4)	50 10 120 1 120 3 40 60 90 30 40 60 90 30 40 60 90 30 40 60 90 30 40 43 50 445 50 445 50 445 50 445 50 445 50 445 50 240 40 60 30 45 50 240 60 30 40 60 30 45 40 60 30 45 40 60 30 40 40 60 30 240 40 60 30 240 40 60 30 40	51.928
	8 gg 9 gg 30 Core 1	0		X	D ,	(fresh) — I	Wyethe 5 I decompo		Hardry	ess 1 (ha		23.05-23.40 m. (with Qtz vein) 23.80-24.00 m. Average length of Core 1 (more the 3120 cm. 5 (soft) 	ún 50 cm), 2 (50 cm, 20 cm) 5 cm), 4 (fesa than 5 cm) 5 (20 - 8 40 9 50 30	31.928

Project MAE LAMA LUANG DAM Location Dam AxIs(River Bed) Boring No. Co-ordinates NI,966, 190,000 E 372,163.500 Angle from Horizontal 90* Bearing of Angle Hole

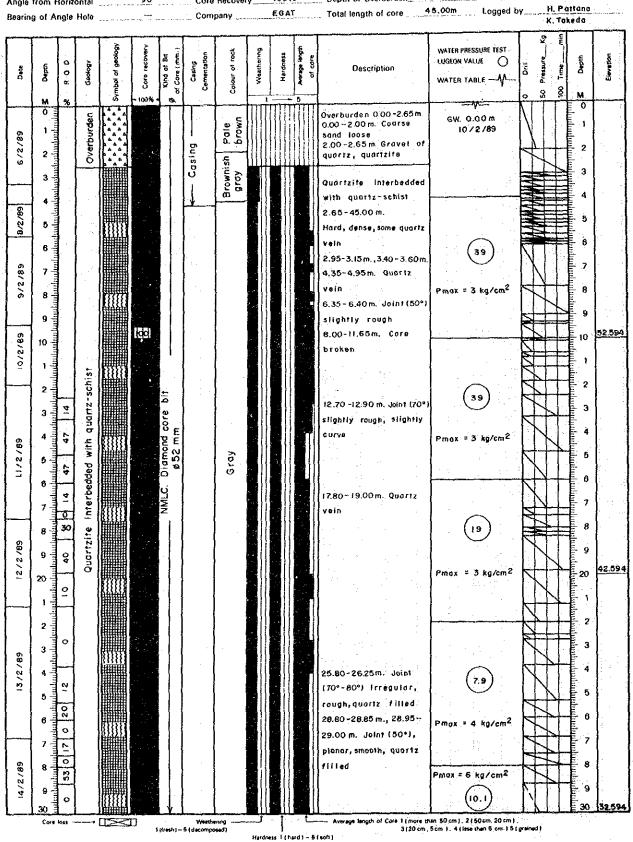
LOG OF BORING

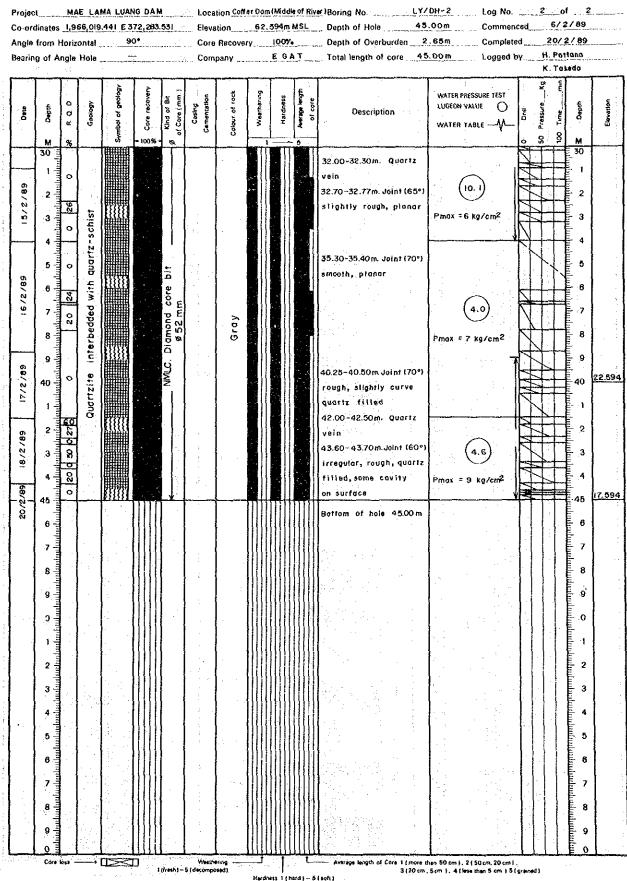
Elevation 61.928mMSL Depth of Hole 50.60 m Commenced 9/2/87 Core Recovery 97. 23 % Depth of Overburden 9. 50 m Completed 22/ 2/87

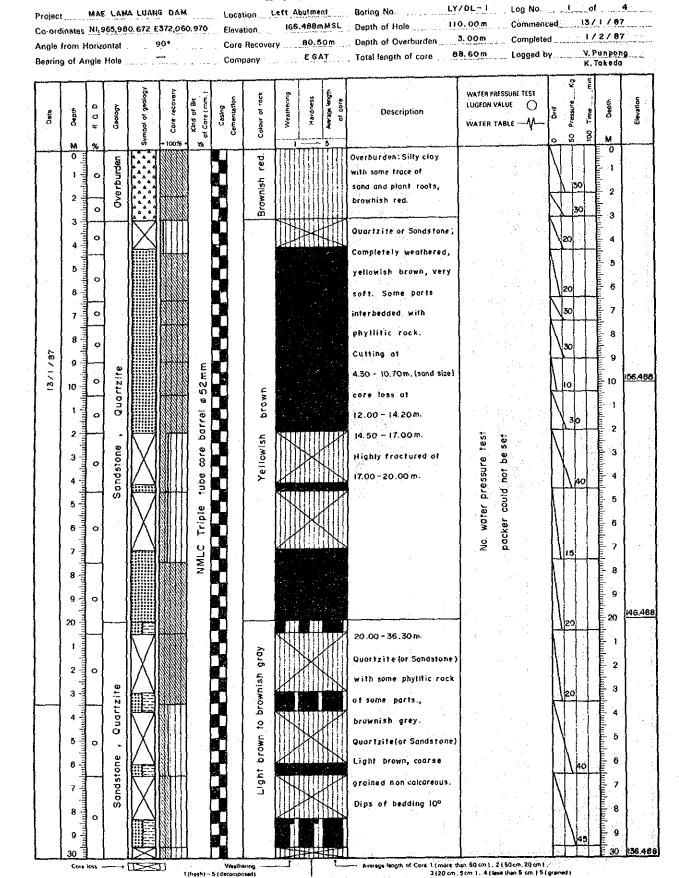
LY/DH-1 Log No. 2 of 2



Project MAE LAMA LUANG DAM Location Cottler Dam(Middle of River) Boring No. LY/DH-2 Log No. 1 of 2 Co-ordinates N1,986,019.441 E 372,283.531 Elevation 62.594 m MSL Depth of Hole 45.00 m Commenced 6/2/89 Angle from Horizontal 90* Core Recovery 100% Depth of Overburden 2.65m Completed 20/2/89



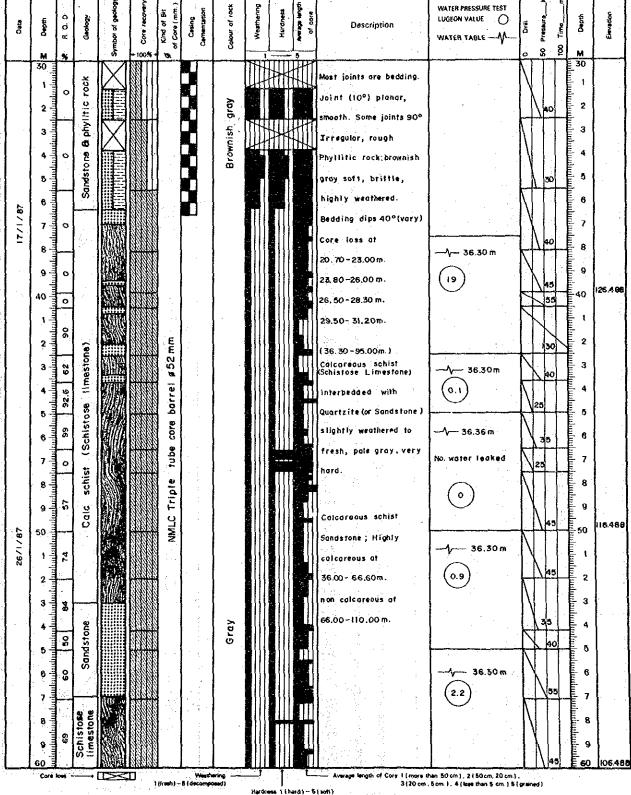




B - 70

Kardness 1 [hard] - 5 [soft]

ProjectMAE_LAMA LUANG DAM	Location Left Abutment	Boring No. LY/DL-1	_ Log No2of4
Co-ordinates NI,965, 960.672 E372,060.970	Elevation 166.468 mMSL	Depth of Hole 110.00 m	Commenced . 13/1/87
Angle from Horizontal 90*	Cors Recovery 80.50%	Depth of Overburden 3.0 0 m	Completed 1/2/87
Bearing of Angle Hole	Company EGAT	Total length of core85.60 m	Logged by V. Punpong
· · · · · · · · · · · · · · · · · · ·			K.Takeda



LY/DL-1 Lag No 3 of 4 Project MAE LAMA LUANG DAM Location Lett Abutment Boring No. Commenced 13/1/97 Co-ordinates N1,965,980.672 E372,060.970 Elevation 166.488m MSL Depth of Hole 110.00 m Angle from Horizontal 90* Core Recovery 80.50% Depth of Overburden 3.00 m Completed 1/2/87 Company EGAT Total length of core 65.60 m Logged by V. Punpon g Bearing of Angle Hole K.Takeda WATER PRESSURE TEST ff by a Colour of rock ğ recove Casting Cementation ž Ê Weatheru Hardness of core LUGEON VALUE ٥ . O Pressure de De De Kind at F of Core (Gaology Description ā Meringe Ť. Depth . С Symbol of Core 8 8 м 13 % м 60 60 -√---- 36.30 m Bedding dips 30°-60° 1 1 2.3 Most joints are bedding 2 2 2 joints dip 30°-60° 3 3 smooth or rough. 4 82 4 Some joints 0-10° ł 5 Irregular, rough. 5 - 38.90 m Few joints dip 90° 6 8 69 0.2 Irregular, rough. 7 7 Core loss at 8 8 88.60 - 89.20m · 9 20 9 Highly froctured of 96.488 70 70 39.00 - 39.20 m. 38.90 m 1 E 43.60 - 43.80 m. 1 83 522 51, 80 - 52,00 m-2 2 sandstone 79 56.50-57.10 m 3 з barrel 59 25 - 59.40 m. 50 4 oore Puo 62.60-63.00 m 5 5 64.20-64.40 m Grey limestone) tube m 06.95 б 77.00-77,80 m. 6 3 Tripple 83.00 - 83.60 m 0.2 7 87, 60-88.70 m я 8 -(Schistone 88 94.30-94.40 m NMLC 9 9 8 Sheared zone at. 86.488 80 80 46:60-46.90 m 4 40.23 m . 1 47.00-47.40 mschist 2 0.4 58.10-58.15 m. 2 40 3 75.60-75.70 m

LOG OF BORING

Døte

27/1/87

28/1/87

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4 62

5

6 **9**0

7 8

9

90

Cora loss

0

Weathering 1 (frash) - 5 (decomposed)

29/1/82

B - 72

Liii

Hardness 1 [hard] - 5 [toff]

86,60-86.80 m.

88,60-89.40 m

90, 40-90.50 m.

92.70-92.80 m

Average

length of Core

đ

6

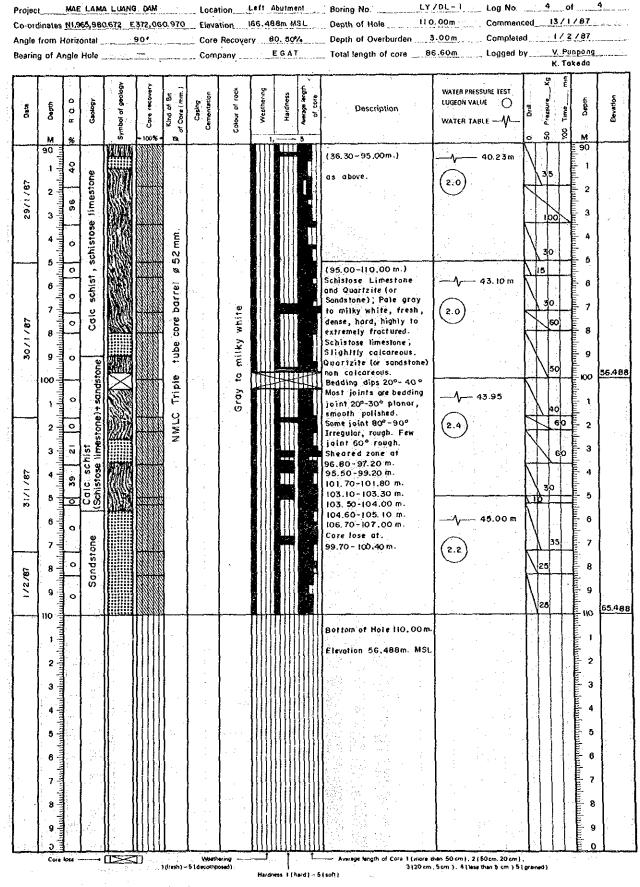
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76 4 8

40.23 m

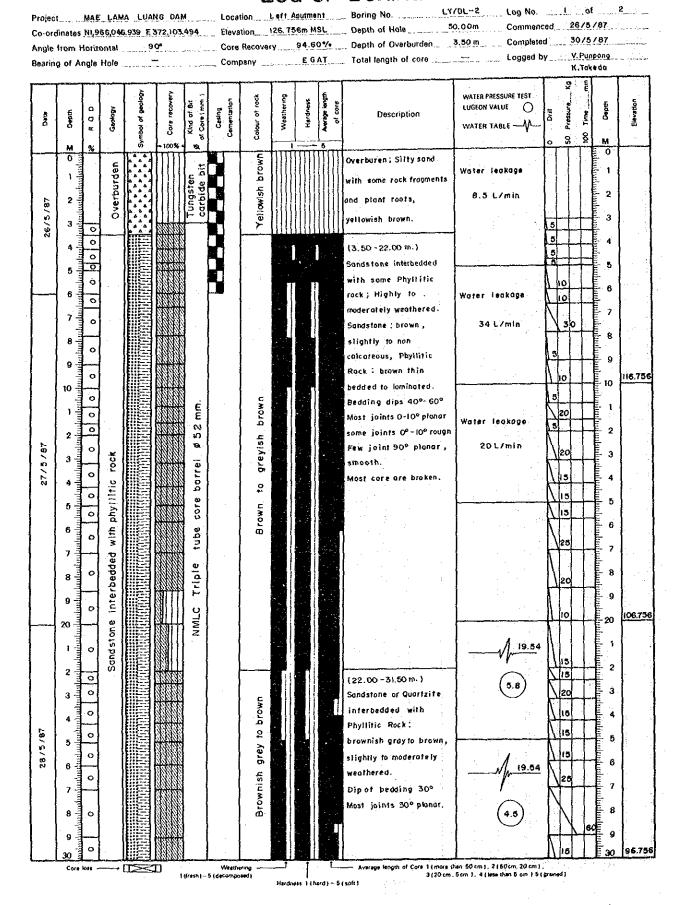
r. **o**

1 (more than 50 cm), 2 (50 cm, 20 cm); 3 (20 cm, 5 cm), 4 (less than 5 cm) 5 (grained)



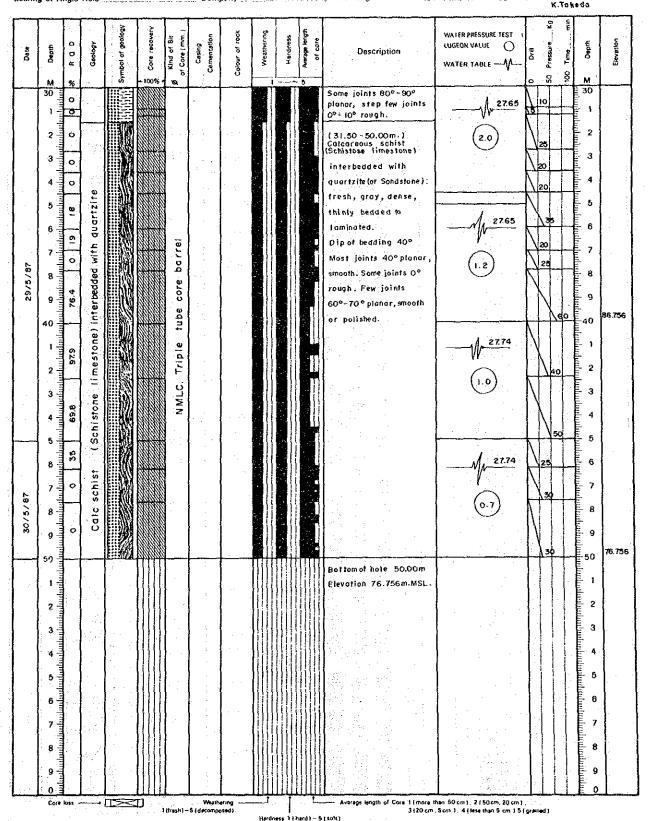
B - 73

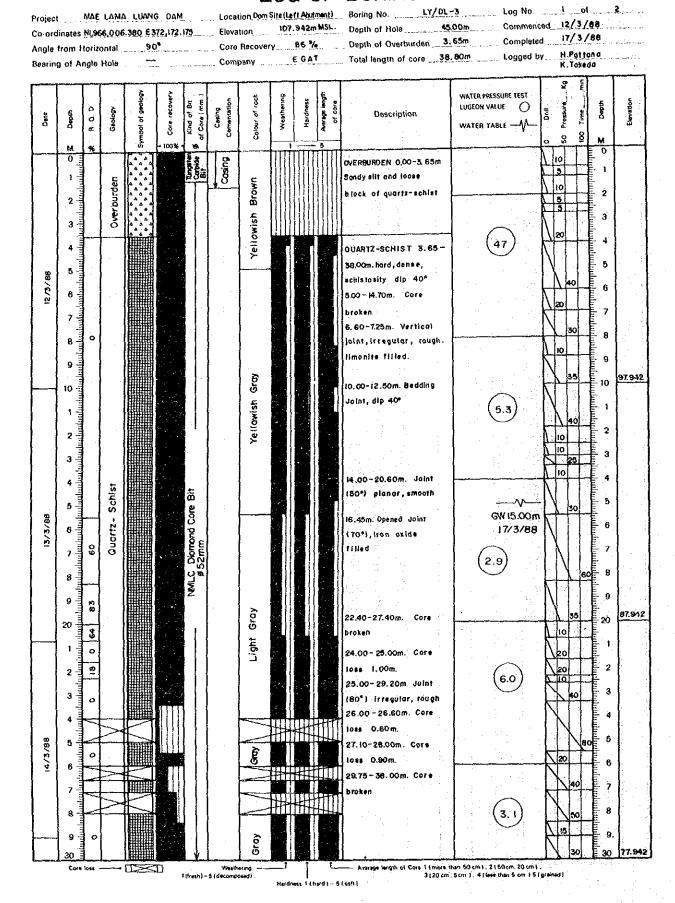
73

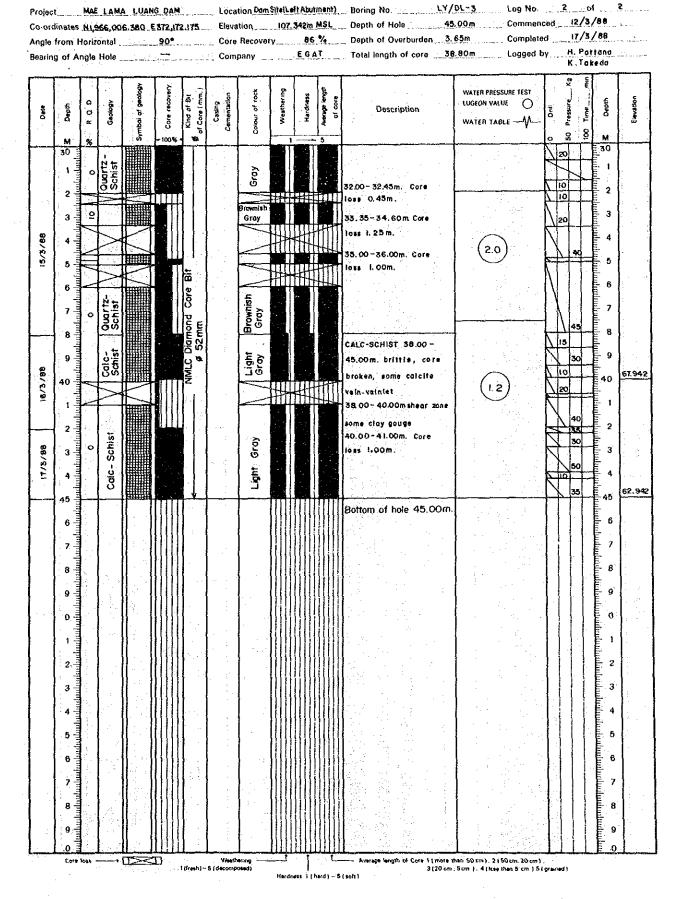


Project MAE LAMA LUANG DAM Location Left Abulment Boring No. LY/DL-2 Log No. 2 of Co-ordinates NI,966,046.939 E 372,103.494 Elevation 126.756m MSL Depth of Hole 50.00m Commenced 26/5/87 Bearing of Angle Hole _____ Company _____ EGAT ____ Total length of core ______ Logged by

2 V. Punpong







Project NaE LAMA LUANG DAM Location Dem StratLatt Book) Boring No. LY/DL-4 Log No. 1 of 2 Co-ordinates N1,956,099,892 €372,059,622 Elevation 99,276m MSL Depth of Hole 60.00m Commenced 17/2/88 Angle from Horizontal 90* Core Recovery 93.3 % Depth of Overburden 8.70.0 Completed 25/2/88
 Angle from Horizontal
 Company
 E G A T
 Total length of core
 56.00m
 Logged by
 H.Pgt1egg.

 Bearing of Angle Hole
 Company
 E G A T
 Total length of core
 56.00m
 Logged by
 K.Total do

Deta	K Depth	A C D	Gaology	Symbol of geology	Core recovery	Kind of Brt	Casing Camentation	Colour of rock	Weathering Hardness Weetapa kength	Description	WATER PRESSURE TEST LUGEON VALUE	0 Drul 50 Pressure Kg 100 Time mir	O W Depth	Elevetion
17/2/08	0 1 and		Overburden			Tangsten Corbide	Casing	Yellow- ish Reddish Brown Brown		OVERBURDEN 0.00~8.70m. residual soil, clayey slit and fragments of quartz-schist, schist highly completely- weathered, loose blocks of quartz-schist, schist	Constant Head Test K=3.81x10 ⁻⁴ cm/sec	10 10 20 10 10 10	inatantantantantantantantantantantantanta	SPT N/111 v16
18 / 2 / 38	10 0 8 0 10 0 10 0 10 0 10 0 10 0 10 0		0				C0	e Yellowish wn Brown Brown		at 4.65-8.45m, 5.90- \$:00m, 7.00-7.30m QUARTZ-SCHIST, SCHIST 8.70-60.00m. Quartz-schist Interbeddad with schist, brittle,		10 15 10 15 15 10 10 10	8 7 10 10 10 10	.80 89.275
19/2/86	6 4 6 8 1 10 10 10 10 10 10 10 10 10 10 10 10 10 1		list., Schist			nd Core Bit		Pale Brown		win schist, printie, etietoeity dip 40°, elightiy-nen calcareaus, 8.70-24.00m. core broken, 14.45~14.55m. Joint (dip 65°) elightiy rough, fregular,	K=4.88×10 ⁻⁴ cm/sec	25 26 40	2345 1000000000000000000000000000000000000	
20/2/88	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Quartz - Schist ,			NMLC Diamond		Gray, Brown		1ron oxide stained 21.10-22.25m. Core loss 1.15m. 22.70~23.70m.Core loss 1.00m. 24.75-32.00m. some	(22)	30	6 7 1/20 1/20	79.276
	parter 2 3 4 5		$ \lambda \lambda $							calcite veiniet, siightly calcareous 24.00-24.00m. Iron oxide on surface 28.40-25.47m. Joint (dip 45°) siightly rough, irregular, Iron oxide stalaed 28.80-25.98m. Joint täip 80°) rough, irregular, Iron oxide	GW_21.85 23/2/88	33	րեստիունունունունունունունուն անդանունունունունունունուն	
22/2/85	6 6 7 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							Gray		stoined 26:00-26:80m, 28:60-29:00m. Core broken 29:43-29:65m, 29:72- 29:435m Joint (dip 70*) irregular, rough, clay sagmed.	2.5	20 70 70	8 7 30 30	

MAE LAMA LUANG DAM Location . Dom Site (Lefs Bonk) Project ... Co-ordinates N1,966,099,882 £372,058.822 Elevation 99.276m M9L Angle from Horizontal 90° Core Recovery 93.3 % Depth of Overburden 8.70 m Bearing of Angle Hole

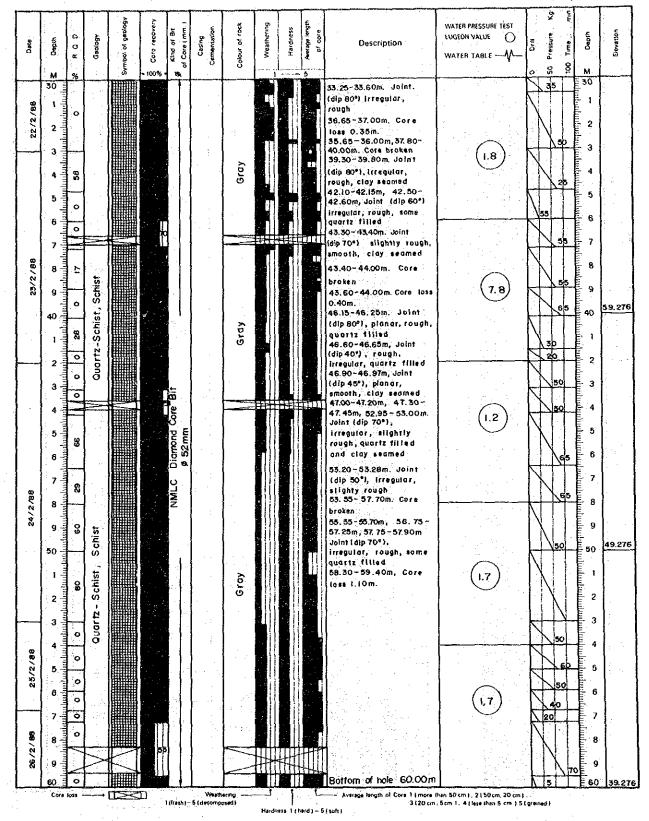
EGAT

LY/DL-4 Boring No. Depth of Hole 60,00m Total length of core 56.00m

2....of Lag No Commenced 17/2/88 Completed Logged by

26/2/88 H. Pettone K. Takeda

2



∍f ng	rom r j of A	ngle	ontal . Hole .			:	Com	pany _	¥	100 % E G AT	Depth of Overburden		γ.			otto oker	ong da	
Ţ	Capita	A 0. D	Gaorlogy	Symbol of geology	Core recovery	Kind of Bit of Core (mm.)	Casing Cementation	Colour of rock	Weathering	Hardness Average length of core		WATER PRESSURE TEST LUGEON VALUE	0 Drill	50 Pressure Ko			M Depth	Elevation
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	o telual		[و الم							0.00-7.00m, residual		Ľ	5	T		2	Nitt
	2 3 4 5 6		<u> </u> .			Ĩ].			soil, clayey silt with		<u>}</u>	5	\vdash	青	3	15
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	, "		l			sten		Brown			weathered	K=1.48x10 ^{°3} cm/sec	Δ	15		E	5	1
	5 - 19 - 19		{ .			i Bun		័យិ			7.00-12.00m; sand silt		V	15		- Eliza		28
ł	6 m					ب		LS L			and fragment of quartz		Ľ		t t	Ē	6	
ļ	. , pag		(·			L¥_		Yellowish				Failing Head Test	H	10	┝	Ŧ	7	1
ł	whu		. 1				l	ζe			and quartzite	K=2.12x10 ⁻⁴ cm/sec	Ľ	10	f{	Ē	8	
ł	8 daul		E				2	· ·			10.60-11.00 Quartz		L	5		╶╢	•	17
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ł	, 11 11	1						ι Έ				Constant Head Test	ľ	5	+ +	T	- 7	
ł	7 111				90 S. [ā						K=1.35x10 ⁻³ cm/sec	F	5				ŀ.
ł	8-1	<u> </u>			, · .	Core	¥				SCHIST, CALC-SCHIST	A	╀	5	╞┥		- 8	
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	» Junto	0				puor E					brittle, high broken, schistosity dip.		N	15				181.5
ł	20 -	_			•	Diamo 52 mr		<u> </u>			70"- 80" some part are	Constant Head Test	٢	T	Π		- 20	
	1 1	<u>20</u>	Schist			· •		[·]			Calc-Schist at 23.75- 24.75m, 27.20-27.90m,	K=1.08x10 cm/sec	Ν				- 1	
ļ	 El 111	0	Š					8			fresh, hard, Crenulated slightly-highly	K-TOBAIO CIUSEC		120	4	-E	- 2	
l	2 dicili					-,		Gray			colcoroous, schistosity dip 40°	19.0-25.0 ^m	N				- -	
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	Tulu	\$	Colc- Schle					Brown			JOINT 20.33-20.36m, Irregular, alightly	la kara 2		<u>,</u>	\square		5	1.1
	2 duula	0	 •					5			rough, dip 40°, iron		N					
l	6 m		Schist					Erown			oxide stained 20.40-20.60m, 21.60-	24.0-30,0m	1	1/20	-		6	ŧ.
ļ	7 - 7	0	S)								21.85m. joint (dip75~80") smooth, planat	(19)	4	20	4-	-E	7	
Į	Julia	8	Colc 9chist		-			Brown Gray			27. 30-27. 36m, joint (dip 50)		$\ $				- 8	
l	8 dunh	8	Schlat					ສ້ ບໍ່			tregular, rough, clay seamed.		Ľ	1/20	×	-E	o	
ļ	9	<u> </u>	[Gray			CALC- SCHIST						- 9	.
1	30	18				t J I		5			28.60-40.00m.		đ.	130	ol -	Ē	30	171.5

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Location Dam Asis (Left Abutment) Boring No: LY/DL-5 Log No. 1. of 2

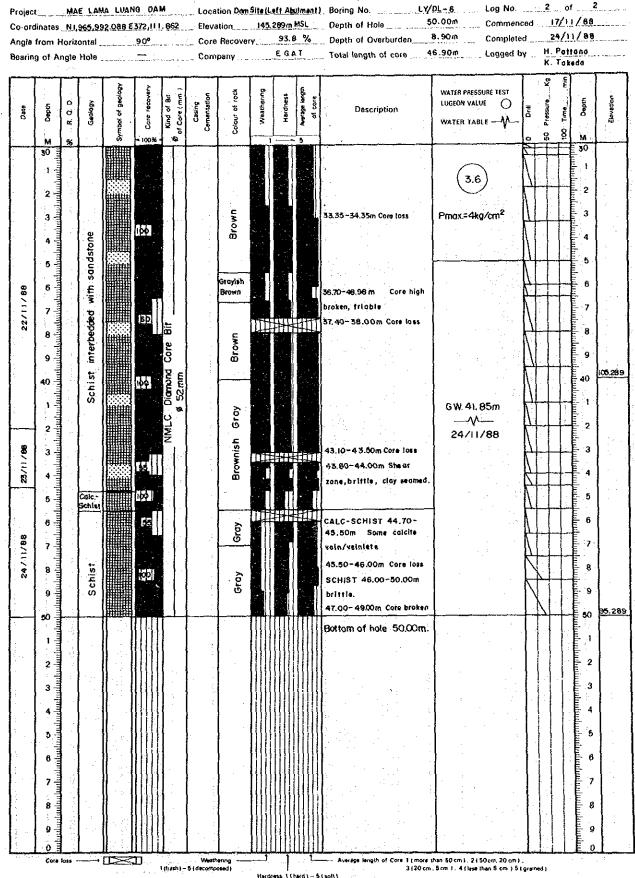
Symbol of action MMLC Diamond Core Bit & Kind of Bit Core recovery & Core recovery Canton Gray Gray	will sc sc <th>Description resh, hard, interloyering ith argiliaceous band, chistosity dtp 50°, ighty - slightly alcareous 29.88 - 29.91m, 0.14-30.17m, Joint lip 40°) slightly rough, ay seamed 30.00-32.60m, ore broked 32.85-33.00m, 4.00-34.45m, Joint dip 60°) irregular, clay somed 33.00-38.50m, 9.50-39.90m, Joint dip 90°), irregular, alcite filled and one clay seamed ottom of hole 40.00m</th> <th>WATER PRESSURE TEST LUGEON VALUE WATER TABLE 29.6-35.6 (1.8) (1.</th> <th>8 35 35 1 9 35 35 1 9 35 1 1 9 35 1 1 9 35 1 1 10 1 2 1 11 2 1 3 11 1 2 1 11 1 2 1 11 1 1 1 11 1 2 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 12 1 1 1 13</th>	Description resh, hard, interloyering ith argiliaceous band, chistosity dtp 50°, ighty - slightly alcareous 29.88 - 29.91m, 0.14-30.17m, Joint lip 40°) slightly rough, ay seamed 30.00-32.60m, ore broked 32.85-33.00m, 4.00-34.45m, Joint dip 60°) irregular, clay somed 33.00-38.50m, 9.50-39.90m, Joint dip 90°), irregular, alcite filled and one clay seamed ottom of hole 40.00m	WATER PRESSURE TEST LUGEON VALUE WATER TABLE 29.6-35.6 (1.8) (1.	8 35 35 1 9 35 35 1 9 35 1 1 9 35 1 1 9 35 1 1 10 1 2 1 11 2 1 3 11 1 2 1 11 1 2 1 11 1 1 1 11 1 2 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 12 1 1 1 13
Diamond Core Bit #52mm fray	fr fr fr fr fr fr fr fr fr fr fr fr fr f	Ith argillaceoue band, chistosity dip 50°, ighty = slightly alcareous 29.88 - 29.91m, 0.14-30.17m, Joint lip 40°) slightly rough, ay seamed 30.00-32.60m, are broked 32.85-33.00m, 4.00-34.45m. Joint Jip 80°) Irregular, clay somed 35.00-36.00m. ore broken 37.00-38.50m, 9.50-39.90m. Joint Jip 90°), irregular, alcite filled and ome clay seamed	29.6-35.6m (1.8) (1.8) (1.6) (1.5) (1.2/88) 34.0-40.0m (1.5) (1.5) (5W.28.77) (1.5) (5W.28.77) (1.5) (5W.28.77) (1.5) (5W.28.77) (1.5) (5W.28.77) (1.5) (5W.28.77) (1.5) (35 1 50 1 50 1 50 1 50 1 50 1 50 1 50 1 51 1 55 1 55 1 55 1 55 1 55 1 55 1 55 1 55 1 55 1 56 1 57 1 58 1 59 1 50 1 50 1 50 1 50 1 60 1 60 1 60 1 50 1 50 1 50 1 60 1 61 1 52 1 <tr td=""></tr>
		ottom of hole 40.00m		
				Image: 1 Image: 1 Image: 1 1 Image: 1 3 Image: 1 4 Image: 1 6 1 2 1
	Werthering – L(rish) – 5 (ascomposed)	1(fresh) - 5 (decomposed) Herdcess 1 (herd) - 6 (s	1(fresh)-5(decomposed) 3120 cm Hardcess 1(hard)-6(soft)	1((rish)-5(discomposed) 3(20 cm. 5 cm 1.4 (issuitant 5 cm 1.5 (grained

Co-ordinates N1.965, 992,088 E 372,111.862 Elevation 145.289m MSL Depth of Hole 50.00m Commenced 17/11/88 Angle from Horizontal 90° Core Recovery 93. 8 % Depth of Overburden 8.90m Completed 24/11/68
 Angle from Horizontal
 90°
 Core Recovery
 Second is
 Depth of Octobularity
 Depth of Octobularity

Project MAE LAMA LUANG DAM Location Dom Slie (Left Abutment) Baring No. LY/OL-6 Log No. 1 of 2

M S G	g g															Tek		
0 0	0 2 0	}	R C	Gaology	Symbol of geology	6 0	Cesing Cementarior	5	Weathering	Hardness	a Average langth	of core	Description	LUGEON VALUE	Pressure	1		Elevation
$\begin{array}{c} \mathbf{F}_{\mathbf{r}} = \mathbf{F}_{r$	$\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 & 2 & 0 & 2 & 3 & 3 \\ \hline & & & & & & & & & & & & & & & & & &$	0 1 2 5 5 3	ad <u>urunununununu</u>	rden		<u>ة</u> ة		Brown					0.00-5.40m Clayey sand	Falling head test			1 2 3	
$\begin{array}{c} \mathbf{F}_{\mathbf{r}} = \mathbf{F}_{r$	$ \begin{array}{c} $	5	<u>thuladoulanhunun</u>	Overbu			Casing	Brownish					eilt and laose block of echist, sondstane 7.50–8.00m Silty sand 8.00–8.90m loose block	Constant head test K=1.23x10 ⁵ cm/sec			7 1	
$\begin{array}{c} \mathbf{P} & \mathbf{O} \\ \mathbf{P} & $	$\frac{1}{3}$ $\frac{1}$	10	arbedten luss leads edge dan l					Brownish Groy					44,70m schlat, brittle, core broken, schistosity dip 40°, interbäued with sandstone, hard,	Ҟ=เ23хЮ टैंm/sec			adamlarihanianika	35.7
7 1 1 1 7 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3	ակարկուղուրուրույու Մահերդուրուն			Sce		Gray					15.43m, 17.62–17.90m. 9.10– 9,15m,9.30–9.37m Irregular joint, dip 40° rough, some quartz	Constant head test			a 5	
	1 1 1 1 2 2 3 1 1 2 3 3 1 1 1 1 2 3 4 1 </td <td>7 8 9</td> <td>luulminin hakaduuli</td> <td>interbedded</td> <td></td> <td>ഗ</td> <td></td> <td>Brown Gray</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>Constant head test K=2.30x10³an/sec</td> <td></td> <td></td> <td>andundundandanda</td> <td>125,2</td>	7 8 9	luulminin hakaduuli	interbedded		ഗ		Brown Gray					•	Constant head test K=2.30x10 ³ an/sec			andundundandanda	125,2
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3120 cm, 5 cm). 4 jiese than 5 cm) 5 (graned) (itresh) - 5 (decomposed) Hardness 1 (hard) - 5 (soft)



Project MAE LAMA LUANG DAM Location Coffer Dam(Left Bank) Baring No. LY/DL-7 Log No. 1 of 1 Co-ardinates N1,965,976.430 E 372,244.292 Elevation 91.431 mMSL Depth of Hole 15.00 m Commenced Angle from Horizontal 90* Core Recovery 97.7% Depth of Overburden 3.00m Completed Bearing of Angle Hole Company EGAT Total length of core 13.15m Logged by H.Pattaba

																. Takeda	
	Dapa C	Geology	Symbol of peology	Core recovery	Kind of Bit of Core (mm.)	Casing Comontation	Colour of rock	Weathering	Hardness	A Average langth	-	Description	n	WATER PRESSURE TEST LUGEON VALUE O WATER TABLE	0 Drill 50 Pressure Kg	100 Time min	Elevation
	0 1 1 2	Overburden			Tungsten Car-	11	C NO CO Pole Brown				0,00 1,60 with 2,00	ROURDEN 0.00 - 1.60m. Sandy - 2.00m. fine 1 some chay - 2.35m. Sandy - 3.00m. fine	y clay sand y clay			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ļ	4 -3	20 26			d Core Bit.	5u					hard text irol suri 3.30	RTZ 3.00 -15 , some port sl ure of quartz i oxide coote 'ace >-4.00m. Som urface.	how tite. d on	0		6	
88/21/2	8 9 0 - 2 Որություններություններություններություններություններություններություններություններություններություններություննե	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0			NMLC Diamond	Casin	Brownish Gray				11.20 11.20 11.70 12.2	1	e fiiled Floss e loss .00 -			9 9 10 11 10 1	81.431
512/06 012/06 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 + 2 3 4 5 6										t TO®	5-(3,35m, 4 -90°); raugh, ie filled om of hole l	Iren	GW.13.75 ^m 23/12/88		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	76.431
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	6.7889900 1777-00-00-00-00-00-00-00-00-00-00-00-00-						· · · ·							zň 50 cm). 2150 cm , 20 cm)		nuluuluuluuluuluuluuluuluuluuluuluuluulu	

3(20 cm . 5 cm) 4 (less than 5 cm) 5 (grained) Hardonna 1 (hard) - 5 (soft) B - 84

Co-ordinates N1,965,975.032 E372,260.205 Elevation 76.025m MSL Depth of Hole 40.00m Commenced 14/1/89 Angle from Horizontal _____ 90* Core Recovery 98 */* Depth of Overburden 1,80m Completed 25/1 / 89 Bearing of Angle Hole _____ Company ____ EGAT Total length of core 39.45m Logged by H. Pottano K. Takedo ş WATER PRESSURE TEST (engt) recover Kind of Brt Ø of Core (mm.) Weathering Š Hardness of geo Pressure Eleverion 50'e ò LUGEON VALUE Depth Depth Gaology Cusing 5 Cementat Oate 8 Description Ĩ -orage in the Core Colour Svmbol ğ ß - 100% 0 OVERBURDEN 0.00-1.80m ō Tungsten Corbide Yellowish Brown clayey sond with some Over-Burden Casing τ loose block of quartz and quartzte. 1 2 2 QUARTITE, QUARTZ 1.80ò 6.00m. hord, dense (do) 3.35-3.45m. Joint, dip 3 14/1/89 3 Quartzite 60°, smooth, some quartz 3 filled 4 4 4.20-4.50m. Core loss 4.70-5.00m. Verticol 52 Quartz, Gray 5 5 joint, smooth, quartz > 50 filled. 22 Yellowish-6 6 o 6 CO-6 25m Core loss CALC-SCHIST 6. 25-19.00m 7 Pmox=2kg/cm² 58/1/5 7 hord, dense, schistosity dip 80° some colcite 8 8 valniets 9.00~9:20 m 10.95-11.05 m joint along 9 9 G.W. 10.13m schistosity, smooth, 66.025 10 10 **۸**۸ clay seamed 22/1/89 1991 ō. ۱ 1 28 100 2 2 68/1/21 -Schist Pmox=3kg/cm² 13.80-14.00m. Joint, 3 11 3 dlp 80°, polished, Colo-4 clay seamed 4 4 15.30- 15.70m, Quarlz ā 5 5 ò vein e S 6 6 Diamond C 52mm 6 18.00 - 19.00m. 7 7 6.2 8/1/81 Schistosity dip 40°, some, joint, along 8 NMLC 8 schistosity, smooth. Pmax = 3kg/cm² clay seamed 1111 59 Q 9 Quartz, QUARTZITE 19.00 56.025 -24,90m. 20 20 Gray hard, dense, care broken Quartzite 68/1/61 1 -1 . 2 2 Quartz, 3 3 -4.3 Q 21/1/89 4 4 Pmox = 4 kg/cm². 5 5 QUARTZ ,CALC -SCHIST 24.90-40.00m. 6 6 Schist hard, danse 7 27.10-28.00m. Quartz 7 8 vein 8 8 22/1/89 29.60-29.70m. Irregular 9.7 Quartz. 38 joint, dip 70* Quartz 9 Ŷ, Pmox=5kg/cm² filled 30 46.02

Project MAE LAMA LUANG DAM Location Coffer Dom(Left Bank) Boring No. LY/DL-7A Log No. L of 2

B - 85

Hardoess 1 (hard) ~ 5 (soft)

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Venthenor

1 (Iresh) - 5 (decomposed)

Average length of Core 1 (more than 50 cm), 2150 cm, 20 cm), 3(20 cm, 5 cm), 4 (lese than 5 cm) 5 (gr

ed 1

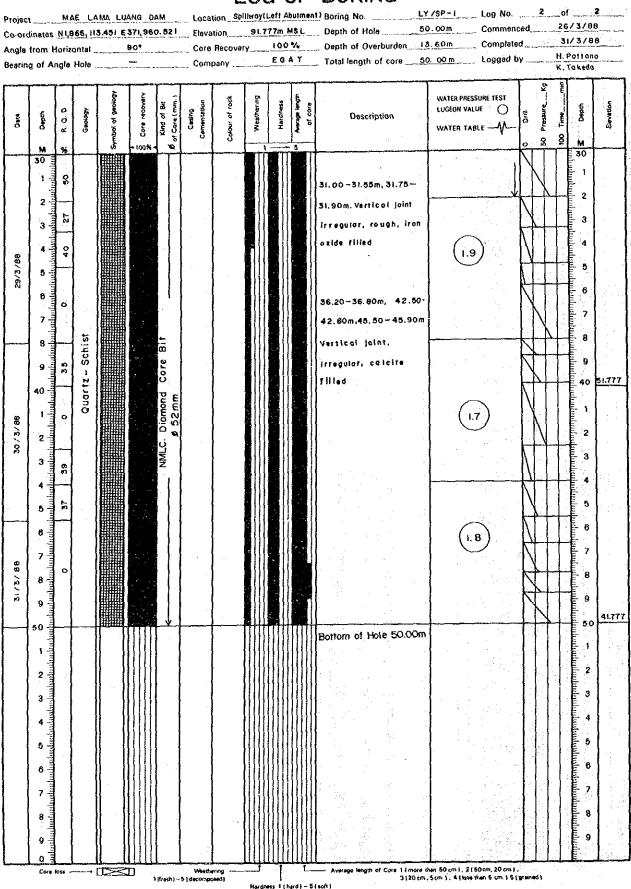
ojectNAE_LAMA_LUANG_DA o-ordinates_N1,965,975.032_E372,260.20 ngle from Horizontal90* earing of Angle Hole	05 Elevation	16.025m MSL	Depth of Hole 40.0	Om Completed	25/1/89
معانية منا ≴ا ا ا	6 0 3	Weathering Hardness Avrage invgth	Description	WATER PPESSURE TEST LUGEON VALUE O WATER TABLE	S 22 M
Core Bit	oz nai		si 39-31.60m, 36.00 - 36.60m, frregular joint, dip 90°, rough, some Quartz filled 37.00 - 39.70m. Quartz veln. Bottom of hole 40.00m	9.7 Pmax = 5kg/cm ² Pmax = 4kg/cm ²	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 5 6 1 1 2 5 6 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 1 2 1 1 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1

	Project									•		Abulm MSL	nt) Boring No. Li		0		
									ation Recover							3/88	
													Total length of core			ottono	<u>.</u>
	Date	Depth	A. O. D.	Geology	Symbol of geology	Core recovery	Kind of Bit of Core (.mm.)	Casing Cementation	Colour of rock	Weathering	Hardness	Arterage langth of core	Description	WATER PRESSURE TEST LUGEON VALUE	Drill Pressure, Kg	akeda S	Elevation
				<u>ن</u>	Symbo	ບິ - 100% -	j o j jo	ð	ै	~		<u> </u> *		WATER TABLE	. 8	M	"
	: :	0	*			- 100% -					Π		0'YERBURDEN 0.00-13.60m			0	
		2 1		1			Fungsten Carbide Bit						sondy silt		┡┼┼┼╸		PT
			-				sten Bit						4.00-7.00m. loose		<u>}</u>	E L	i)) Ji
ļ	26/3/88	.3 mili					3 Sbui						blocks of quartz-			3	
	26	4 -					Ë,	14					schist	Constant Head Test		4	
		- 5 Ju	- 44 - 1 - 1											K=3.8xIO ⁴ cm/sec		5	
		, inter		н 1. т.	3 3 4											6	22
ſ		6 Hunk		Ę													
		7		over burden	د م م			Casing									
		8		er D	• • •			8 ·	 						┡┼┼┽╸	8	
		्रम		ō.				1									,
		9 ilmin														₽ +	i.777
		10												Constant Head Test			
	8	- 1 III												K=L62xI0 ³ cm/sec			
	27/3/86	2 m					1						the state of the s				•
	N	2 Juni	3											Constant Head Test			
		3					. 1							K=2.32x10 ³ cm/sec		1. 3 	
		4 1	0					· .					QUARTZ-SCHIST		╊╂┾┼╸	E 4	
		- 5 Timp	8				\$	-					13.60-50.00m. hard,		1	5	
		, 11111					e Bit						denze, brittle 13.60-23.35m. some		h + + +		
	·	6 1					Core						calcite vein, thickness.				
		7 1	0				Imond.(52 mm)					1-8cm, dlp 30*-70°, have	(2.2)	\mathbb{N}	E 7	
ł		- 8 11:11					Diamond. ø 52 mn						small cavity on surface			8	· .
	· . [ດ - ບໍ						of calcite vein		NIT	È,	
		9 fuith	4				NMC						15.75-16.65m. 17.50-		N		
		20 m					Ž.,						17.70m. vertical joint, Irregular, rough, iron	h	1 N	E 20 1	11.777
		- - 1	;										oxide filled		NIT		
	28/3/88	n an	°	st									19. 70 - 20.00m. Joint (70*			1 1 1 1 2	
	597	5 daula		chist		دخر در ۱						<u>, </u>	irregular, polished		\mathbf{N}		
l		3	M.	z-S									21.65-21.80m. 22.20-	2.4	$[\mathbf{N}]$	3	2
		4 Co		Quartz									22.58m, 26.20-26. 8 0m	1 . 1	LNL:	4	
			R	ō]				29.20-29.70m. Vertical		NII-		
		5 171111	4										joint, irregular, rough, iron Oxide filled			E 1	
ł		6												├ ─── ┼		6	
	- ·]	7 1	•										29.70-59.00m Some			1	
	8	antinitariantari Antinitariantari	P										colcite vein, thickness	(4.2)		1	
	29/3/88	որուս	8										2-6cm, dip 70°, have small cavity on surface				:
	- X	9 mini	20 20	• :				:					of calcite vein			9	÷.,
ĺ	لي	30 3	<u> </u>				<u> </u>	L	aring	Щ	ų		Average langth of Core 1 (more	1	الملابات	<u>E 30 </u>	

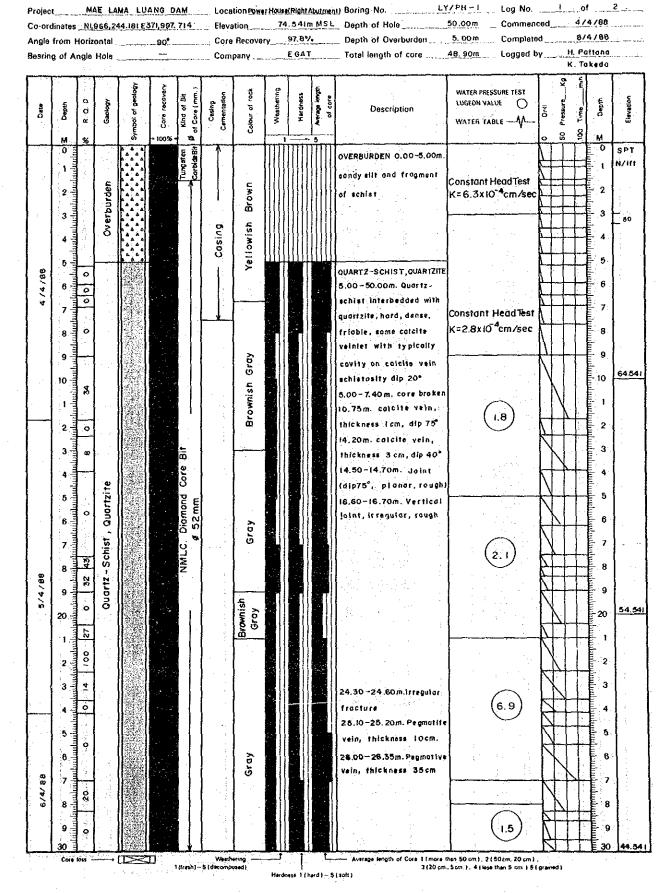
B - 87

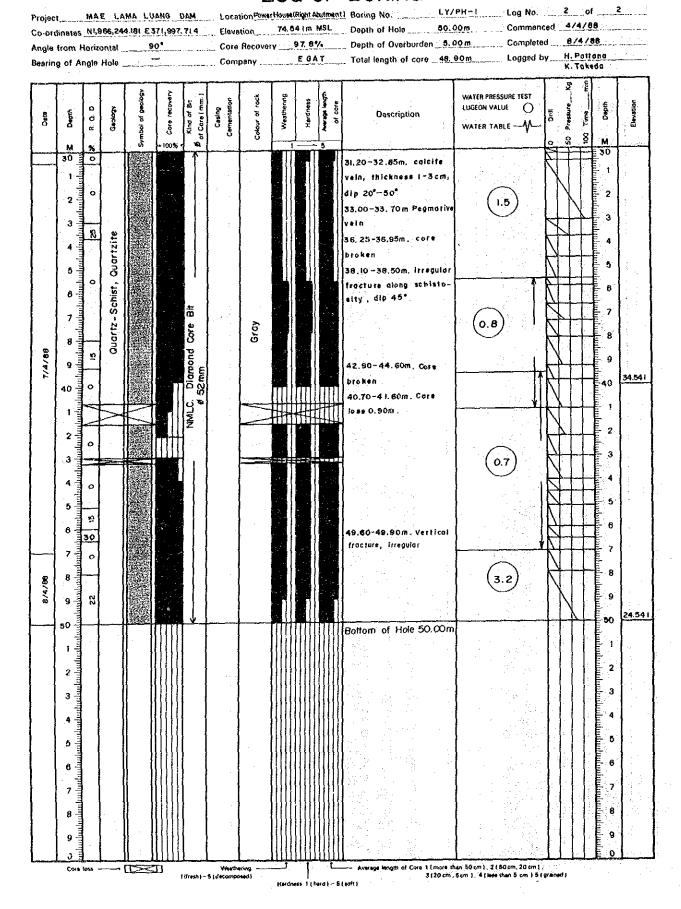
Hardmass I (hard) - 5 (soft)

Average length of Core 1 (more than 50 cm). 2(50 cm, 20 cm). 3(20 cm, 5 cm). 4(lese than 5 cm 15 (greined)



B ~ 88.





Project MAE LAMA LUANG DAM Location PowerHouse (Right Abutmerd Boring No. Co-ordinates NI,966,316.450 E372,100.580 Elevation 127.241m MSL Depth of Hole 80.00m Commenced 3/6/88 Angle from Horizontal _____ 90* Core Recovery 98% Depth of Overburden 11.80m Completed 27/6/88 Bearing of Angle Hole _____ Company _____ EGAT ____ Total length of core _____ 78.40 m _____ Logged by _____ H. Pottano

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Depth Dete

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Core loss

7/6/88

6/6/68

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5/6/

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Quartz - Schist

3/6/

4/6/88

LY/PH-2 Log No. 1 of 3

Elevation

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K. Takedo ŝ recovery Average length Symbol of geology Weathering WATER PRESSURE TEST Colour of rock 🖉 of Core (mm Kind of Brt Hardness Sore Cementatio Geology Costing LUGEON VALUE Depth 0 Description Pressure 1 mg Core 5 § 8 100% Ó OVERBURDEN 0.00-11.80m Car bide 1 slify sond, some loose SPT 2 Tungstone (Bit block and fragment of 3 _ 50%" quartz schist 4 Brown **Constant Head Test** -5 Overburden K=8.2 x10 cm/sec Yellowish 6 Casing 7 8 . <u>'</u> 117.241 - 10 Constant Head Test ۱ K=1.45x15 4 cm/sec 2 QUARTZ-SCHIST INTERBEDDE WITH CALC - SCHIST з 11.80-80.00m. hard, dense some parts are broken 12.80-13.30m. Core loss 4 Colc.-Schist 0.50m. 4.8 5 Gray 13.55-14.45m. Interbedæd with colc. schist, 6 Yellowish slightly colcoreous, schistosity dip 40° 15.40m, 16.70m.0pened ō 7 e So fracture, dlp. 70° 18.30-18.60m. Core losa 8 NMLC Diamond P52.mm 0.30m. 19.00-20.30m. 21.25-9 22.80m. Interbedded Interbedded with with colc-schist 107.241 20.40-20.75m. Vertical 20 Gray joint, irregulor, rough, colcite and limonite - 1 filled Yellowish 20 2 3 23.90-24.30m. Core loss 0.40m. 24.30-26, 93m. Interbedded -4 ÍΠ ----with calc schist 24.50-25.00m. Some -5 GW. 24.6m

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B - 91.

Hardness 1 [hard] - 5 [soft]

Gray

Yellowish

Weethering

1 (iresh) ~ 5 (decomposed)

Colcite veiniets

29.55 - 30.70m. Interbedded with colc-

dlp 45*

schist

26.40-26.60m. Irregular

fracture glong bed 27,80-28,50m. Calcife vein, thickness 2cm ,

Average length of Core 1 (more than 60 cm), 2(50 cm, 20 cm), 3(20 cm, 5 cm), 4 (less than 5 cm) 5 (graned)

27/6/88

21

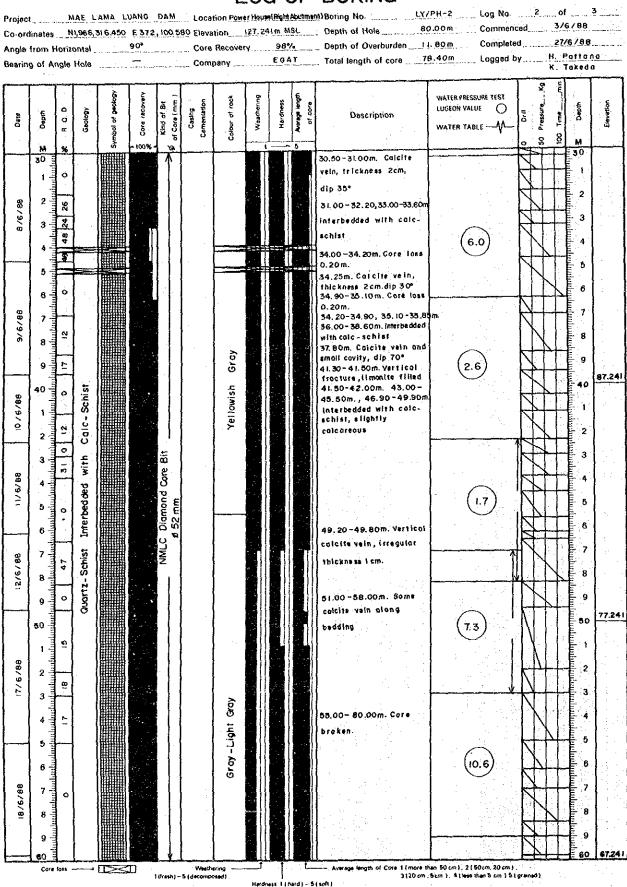
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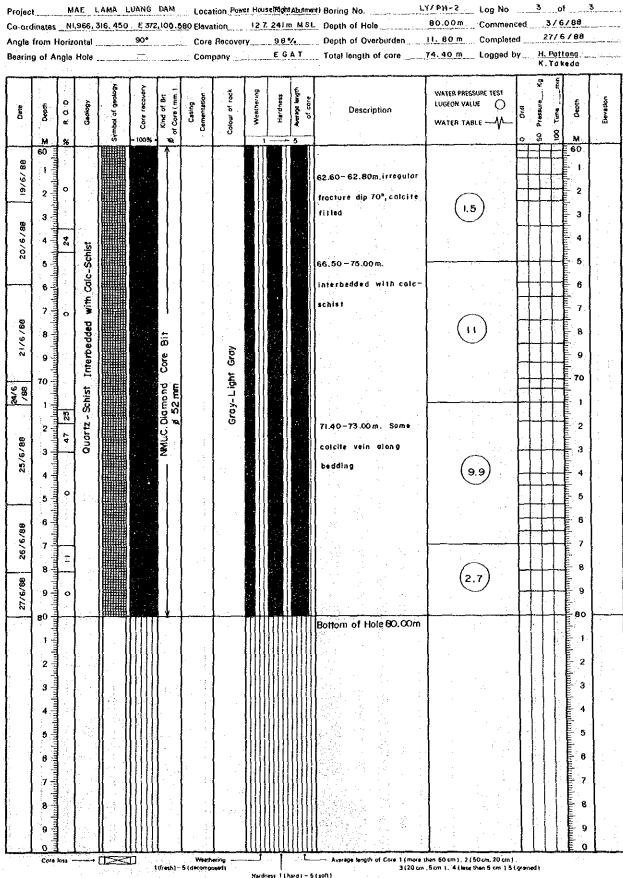
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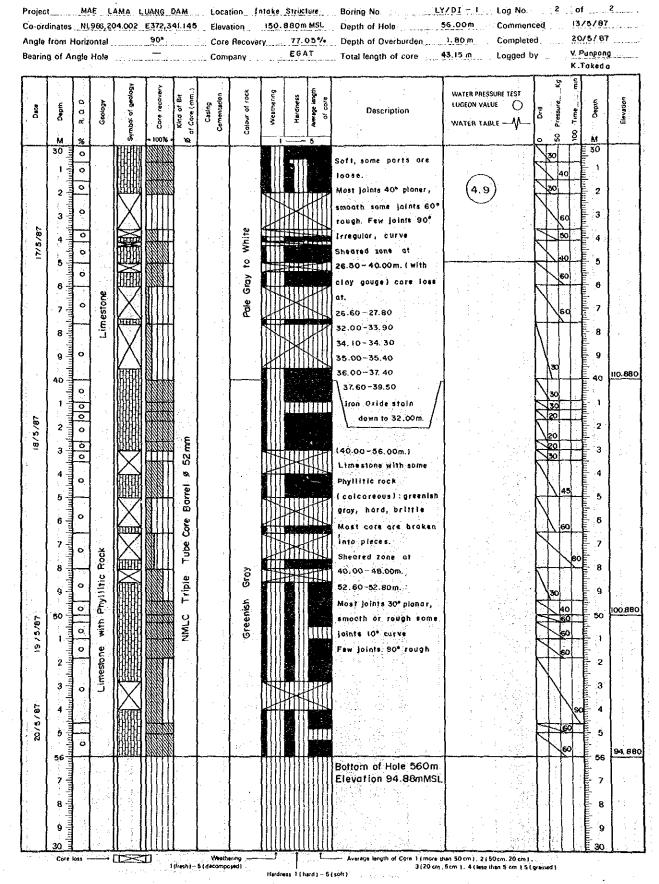
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Project MAE LAMA LUANG DAM Location Intoke Structure Boring No. LY/DI -1 Log No. 1 of 2 Co-ordinates NI,966, 204.002, E 372, 341, 145 Elevation 150.880mMSL Depth of Hole 56.00m Commenced 13/5/87 Angle from Horizontal 90° Core Recovery 77.05% Depth of Overburden 1.80m Completed 20/5/67 Bearing of Angle Hole _____ Company ____ EGAT ____ Total length of core ______ Logged by _____ V. Punpong

	fa d M	6 H C C	Gaology	Symbol of geology	Core recovery	Kind of Bit	of Core (mm.)	Comentation	Colour of rock	Weathering.	Hardness	of core	Description	WATER PRESSURE TEST LUGEON VALUE O WATER TABLE	o Drift 50 Pressure Ki	N Depth	Elevation
	0		Over- Burden						Reddish Brown				Overburden : Silty sond with some rock troginants, reddish brown.				
10.	3 adadadada	8						·					(1.60 - 25.00 m.) Limestone Interbedded		220	2	
10/0/01	4	_											with sandy Limestone ,		30		
	5 milanda 6 milanda												Slightly weathered to tresh, Limestone : Pale		Λ	5 - E	
	7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0											gray, hard, dense . mossive, fine grained		N	7 11 11 11 18	- s.,
	8 opportuni 9 opportuni												to cryptocrystalilne. Sandy Limestone :			70	
	10 III	•	She way	N		•	1					9 -11 - -	yellowish brown , coarse grained , highly		1 20	10 10 11 11	140.0
	10 1 1 2 2	0	Limestone										colcoreoue Most joints	(0.9)		2	
_	3 4	<u>ڪ</u>	n Sandy			Tube						r i	10° rough, curve some Joints 20-30° rough		A	20 - 3 70 - 4	
	afnefnefenfin		Interbedded with			Tuinlo			Brown				Pew Joints 60-70" Irregular, rough,			5	
	6 111111111111111111111111111111111111	9. J	Interbed					•	to Yeliowish	1			Bedding dips 30°-40° highly broken core at	(1,1)		100 100 100 100 100 100 100 100 100 100	
-	8 101 101 101		Limestone			2							20,50~20,80m. 22,70-23,50m.			8	
	8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	8	Ľ.						Pale Gray			Ű	Core loss at 8,60-9,00m.			L E	30.8
	1 1 mpmpmp	ê										* **	9.60 ~9.90 <i>m</i> .			1 1 1 1 1 2	
	- 3 11111	0 0										3 4		0.6		E a	
	4 5 Subuiltultu	0										. 11	· · · · · · · · · · · · · · · · · · ·		6	o ulu 5	
	0 10 10 10 10 10 10 10 10 10 10 10 10 10	•	۵						o White			1 1 -F	(25.00-40.00m.) Limestone : Pale gray	0.5		6 	
	2 alumhuntun alumhuntun	•	Limestone						Gray to				to white, colcoreous, highly broken by sheared			8011 8	
	8 e 1011111111	000	נ"						Pale		∳ Hd		Zone, prittie.		No.	9	120.1



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