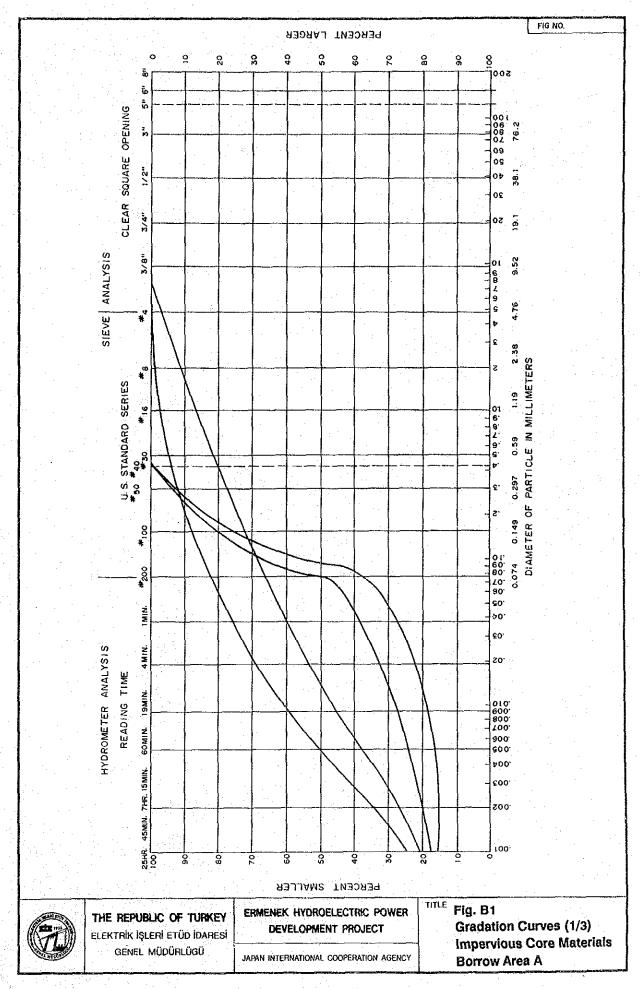
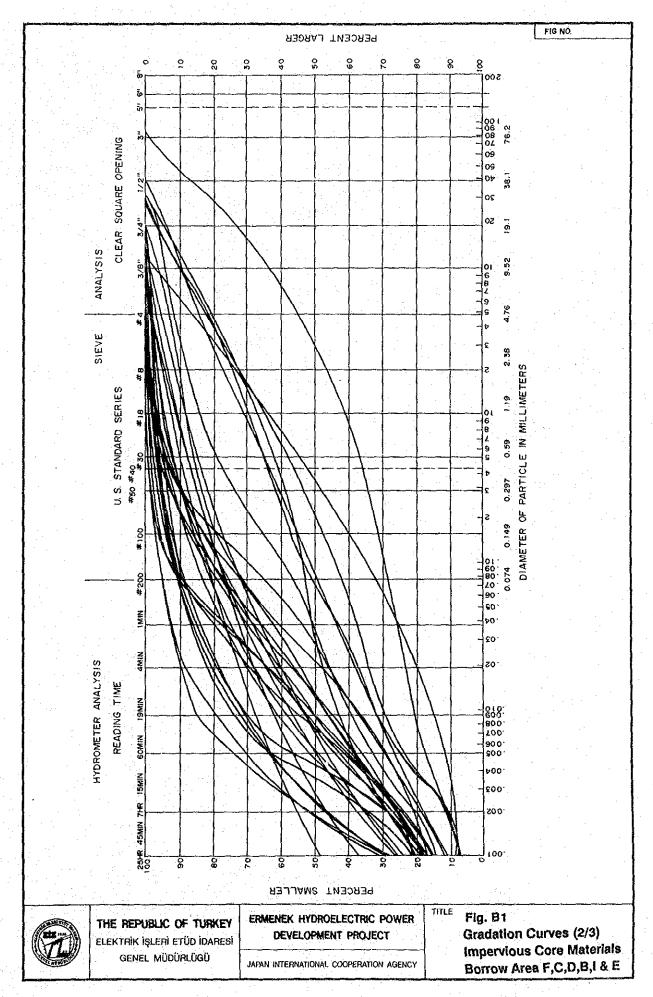
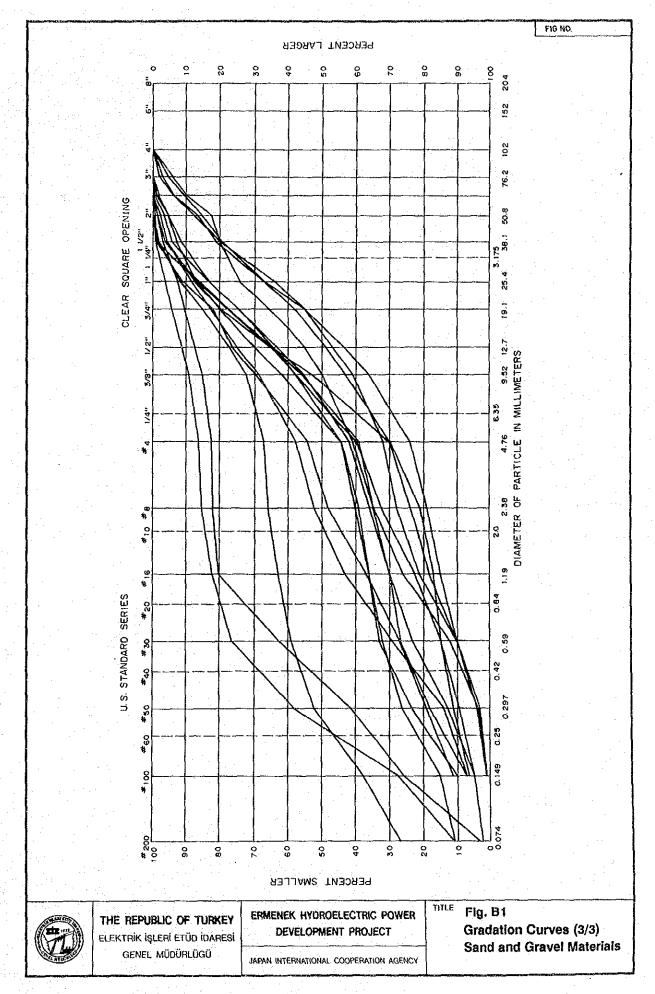
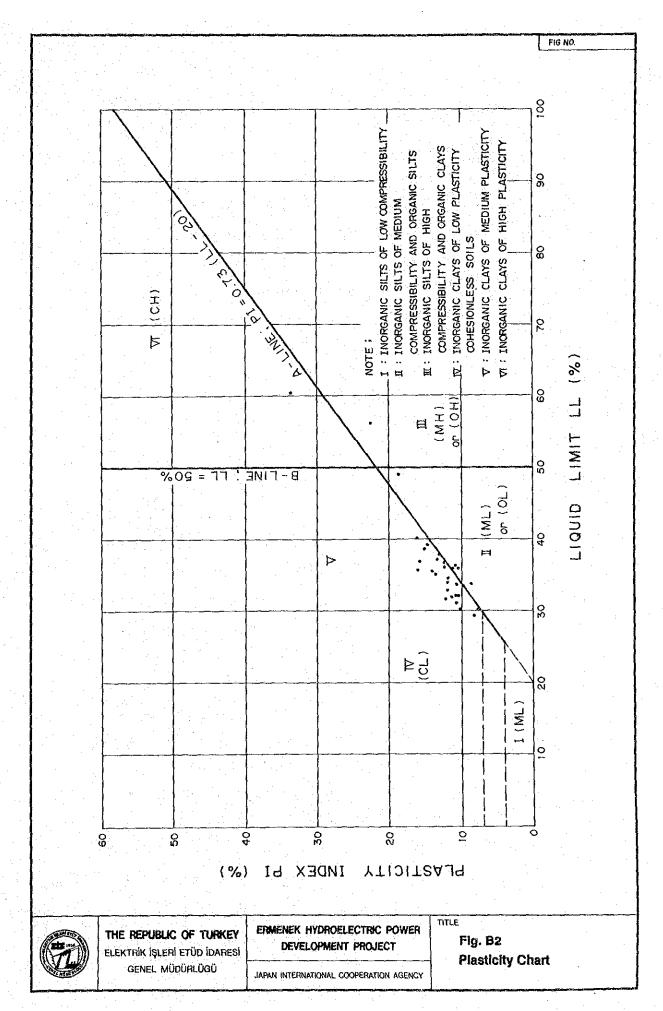
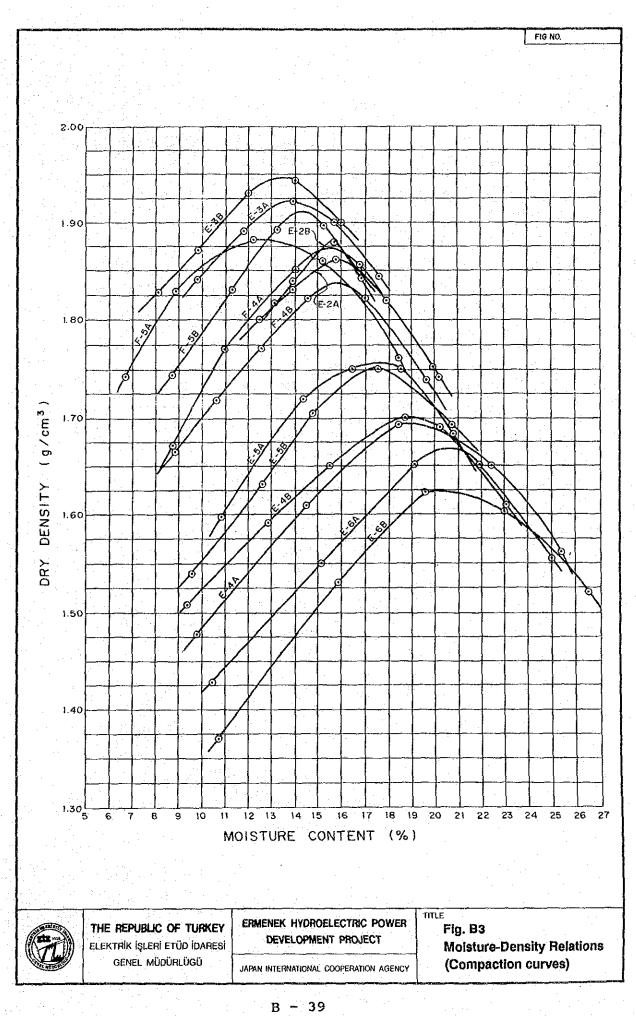
FIGURES

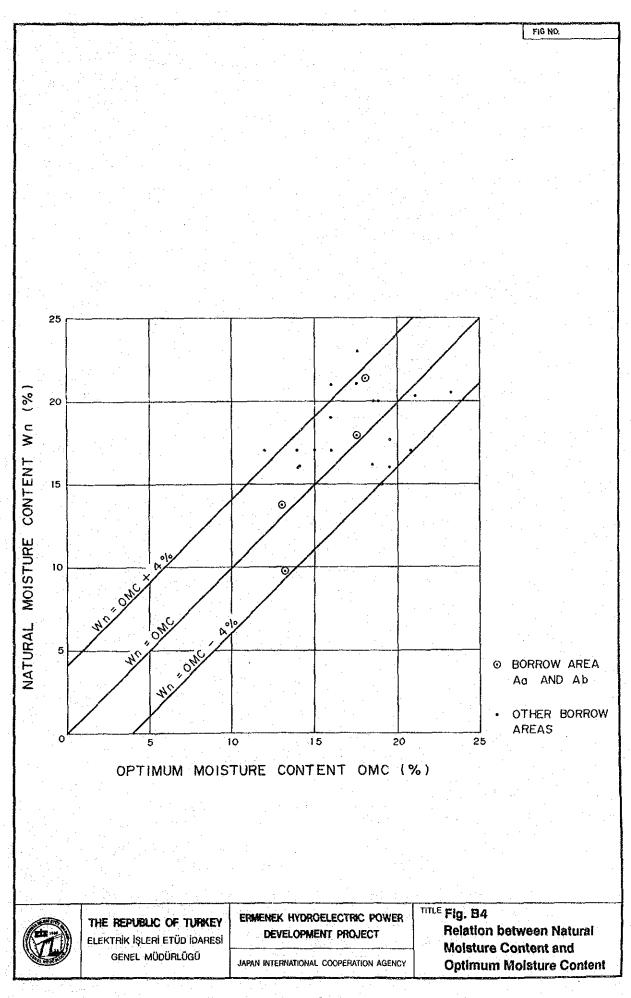


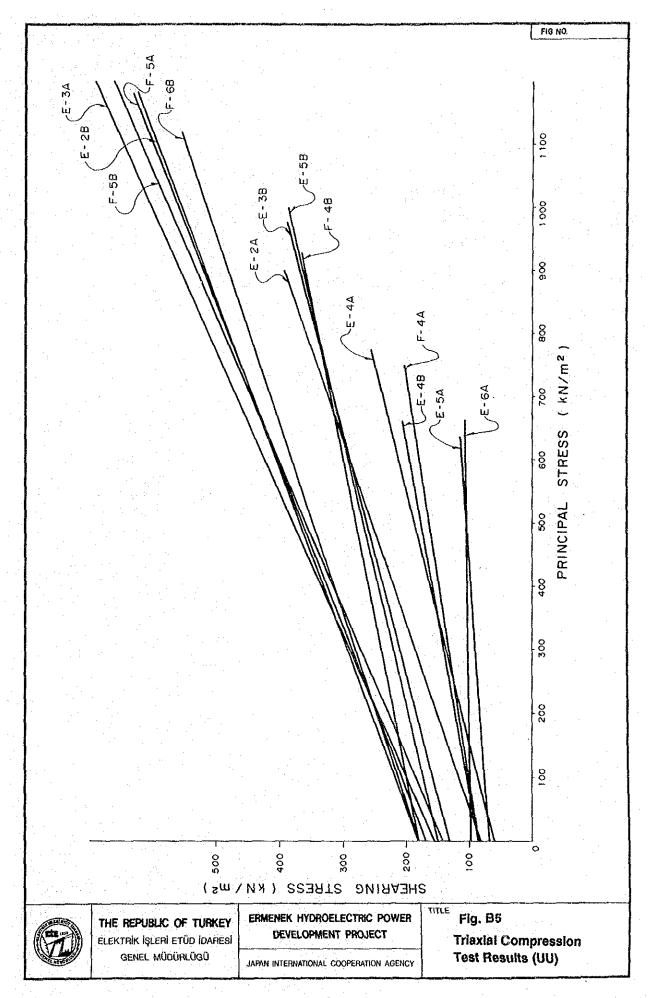


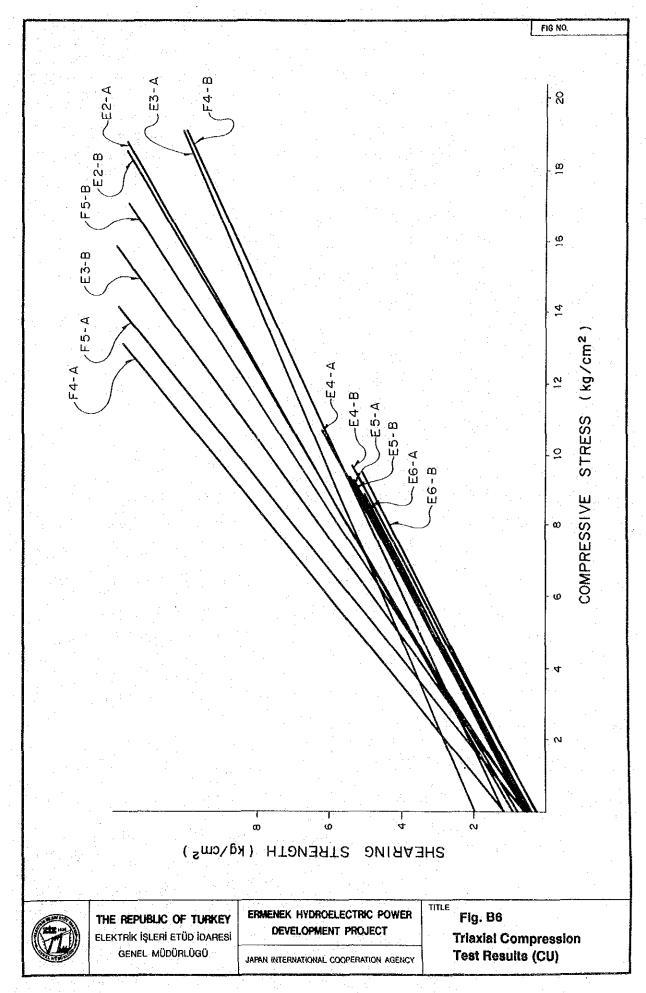


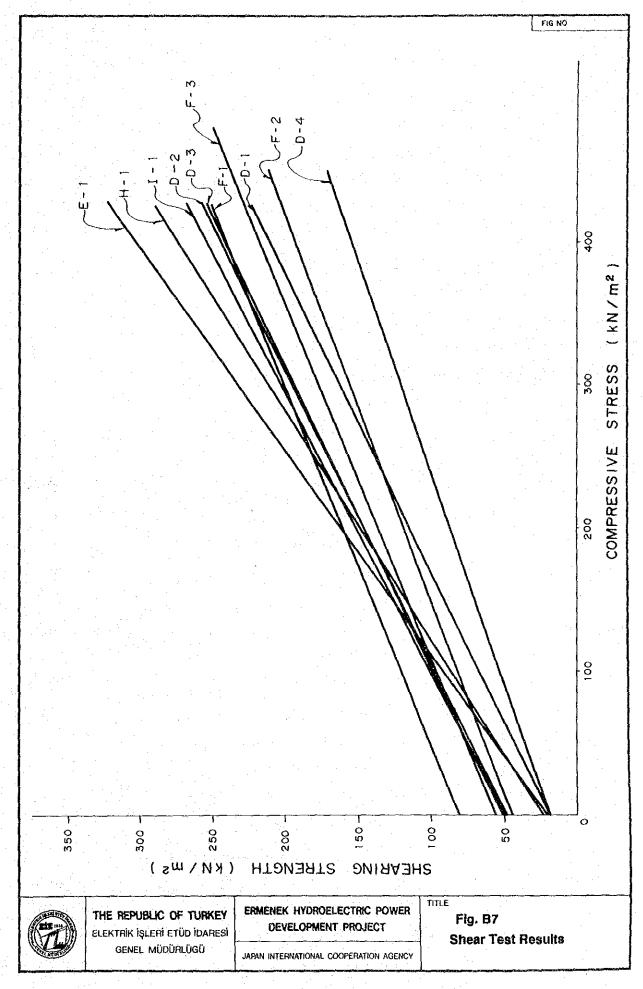












Attachment B1 Geological Condition of Test Pits

GEOLOGICAL CONDITION OF TEST PITS

1 BORROW AREAS FOR CORE MATERIALS

(1) BORROW AREA Aa

A-1 Depth (m)

0.00 - 0.20 Surface soil, dry.

0.20 - 1.50 Silty clay, light brown, dry.

1.50 - 2.50 Silty clay, with gravels (10 %),

brown. Slightly wet.

2.50 - 5.00 Sandy-silty clay, brown.

Moderatly wet

A-3 Depth (m)

0.00 - 0.30 Surface soil.

0.30 - 5.00 Silty clay.

Dry; 0.00 - 1.00 m.

Slightly wet; 1.00 - 2.00 m.

Moderately wet; 2.00 - 5.00 m.

(2) BORROW AREA Ab

A-2 Depth (m)

0.00 - 0.40 Surface soil.

0.40 - 3.20 Silty sand, moderately wet.

3.20 - 4.00 Gravels and limestone boulders.

Moderately wet.

A-4 Depth (m)

0.00 - 0.15 Surface soil.

0.15 - 1.80 Silty clay, moderately wet.

1.80 - 3.00 Gravel, moderately wet.

(3) BORROW AREA B

B-1 Depth (m)

0.00 - 0.20 Surface soil.

0.20 - 1.50 Clayey silt, light brown-greenish

brown, with a little sand.

1.50 - 2.00 Clayey-silty sand.

2.00 - 2.50 Gravel.

(4) BORROW AREA C

C-1 Depth (m) 0.00 - 0.30Surface soil. 0.30 - 1.10Silty clay, reddish-light brown, with some gravels (5-10%). 1.10 - 2.50 Clay, reddish brown. 2.50 - 3.80Silty clay, light brown. 3.80 - 4.50Slity clay, with lime lump, light brown. 4.50 - 5.00Sandy-silty clay, light brown. C-2 Depth (m) 0.00 - 0.20Surface soil. 0.20 - 1.50Clay, reddish brown. 1.50 - 2.00Silty clay, light brown. 2.00 - 2.60Silty clay, with lime lump, light brown. Sandy-silty clay, light brown. 2.60 - 3.10C-3Depth (m) 0.00 - 0.30Surface soil. 0.30 - 3.10Clayer-sandy silt, with a little gravels (10-15%). 3.10 - 3.40Clayey-sandy silt, with gravels. 3.40 - 4.40Clayer-sandy silt, with a little gravels (10-15%). 4.40 - 5.00Gravels. Slightly wet; 0.30-5.00 m. C-4 Depth (m) Surface soil. 0.00 - 0.300.30 - 0.60Silty clay, with a little sand, brown. Silty clay, with a little sand, 0.60 - 1.00brown, with gravels and boulders

(max.15cm).

(max 15cm).

1.00 - 2.00

Sandy-clayey silt, light brown,

with gravels and boulders

(5) BORROW AREA D

D-1 Depth (m)

0.00 - 0.50 Surface soil, dry.

0.50 - 2.00 Sandy-clayey silt, light brown,

with a little gravel and

one bouldre(15cm), slightly wet.

2.00 - 5.00 Sandy-clayey silt, light brown.

Moderately wet.

D-2 Depth (m)

0.00 - 0.40 Surface soil.

0.40 - 5.00 Sandy-clayey silt, light brown.

Slightly wet.

D-3 Depth (m)

0.00 - 0.50 Surface soil.

0.50 - 1.50 Sandy-clayer silt, with a little

gravel.

1.50 - 5.00 Sandy-clayer silt, slightly wet.

D-4 Depth (m)

0.00 - 0.30 Surface soil.

0.30 - 5.00 Clay and silit clay, light brown.

Slightly wet.

(6) BORROW AREA E

E-1 Depth (m)

0.00 - 0.30 Surface soil.

0.30 - 3.50 Sandy silt and clayey-silty sand,

with gravels(10-15%).

(7) BORROW AREA Ea

E-4 Depth (m)

0.00 - 0.50 Surface soil,

clay with gravels(10-15%),

dark brown.

0.50 - 1.10 Clay-silty clay, dark brown.

1.10 - 3.50 Silty clay, light brown.

E-5 Depth (m)
0.00 - 0.80 Surface soil.
0.80 - 4.00 Silty clay.
Moderately wet; 1.00 - 4.00 m.

(8) BORROW AREA Eb

E-6 Depth (m)

0.00 - 0.40 Surface soil.

0.40 - 1.60 Sandy-silty clay, light brown.
Below 1.6m, sand and gravels.

(9) BORROW AREA EC

E-2 Depth (m)

0.00 - 0.70 Surface soil, light brown, dry.

0.70 - 2.30 Sandy-clayey silt, with gravels(10%) and boulders

(max.20x20x40cm) in 1.80-2.30m.

2.30 - 3.20 Sandy-clayey silt,

with small gravels (10-15%).

3.20 - 3.50 Sandy-clayey silt,

with boulders (40-50%).

3.50 - 4.00 Sandy-clayey silt,

with coarse gravels (15%).

4.00 - 4.50 Gravels and boulders

(max.20x30x50cm).

E-3 Depth (m)

0.00 - 1.00 Surface soil, light brown,

with gravels (max.5cm).

1.00 - 1.60 Sandy-silty clay,

with gravels(50%, max.5cm).

1.60 - 2.15 Sandy-silty clay, light brown.

2.15 - 2.35 Sand and gravels layer.

2.35 - 3.20 Sandy-silty clay, light brown.

Slightly-moderately wet;

1.20 - 3.20 m.

(10) BORROW AREA Fa

F-4 Depth (m)

0.00 - 0.30 Surface soil, with coarse gravels, dark brown.

0.30 - 2.10 Silth clay, with lime lump (1-2cm, 5%), light brown.

2.10 - 2.90 Silth clay, with gravels(25-30%), light brown.

2.90 - 3.50 Many boulders(70%), light brown.
Slightly wet; 0.30 - 3.50 m.

F-5 Depth (m)

0.00 - 0.60 Surface soil.

0.60 - 1.90 Clayey silt, with small gravels (5-10%).

1.90 - 3.20 Clayey silt, light brown.

3.20 - 3.50 Sand and small gravels.

3.50 - 5.00 Clayey silt, light brown.
Slightly wet; 0.60 - 5.00 m.

(11) BORROW AREA Fb

F-1 Depth (m)

0.00 - 1.00 Surface soil, silty clay, brown.

1.00 - 3.20 Clayey silt, Brown-light brown.

3.20 - 5.00 clayey silt,
with sand layer (5-15cm thick) at
interval of 25-30cm.

Slightly wet; 1.20 - 5.00 m.

F-2 Depth (m)

0.00 - 1.00 Surface soil, silty clay, brown.

1.00 - 5.00 Silty clay, light brown, slightly wet.

F-3 Depth (m)

0.00 - 1.00 Surface soil, brown.

1.00 - 5.00 Silty clay-clayey silt, light greenish brown, slightly wet.

(12) BORROW AREA I

I-1 Depth (m)

0.00 - 0.30 Surface soil, clay, reddish brown.

0.30 - 1.50 Clayey silt, with lime lump(5-10%),

white-greenish brown.

1.50 - 3.00 Sandy-clayey silt, greenish brown.

(13) OTHERS FOR CORE MATERIALS

H-1 Depth (m)

0.00 - 0.30 Surface soil, with gravels.

0.30 - 3.00 Silty clay, with sand, gravel and bouldre layer (max.18cm, 5-10cm thick) at interval of 15-20cm, slightly wet.

2 BORROW AREAS FOR SAND AND GRAVEL MATERIALS

(1) BORROW AREA Ga

G-1 Depth (m)

0.00 - 0.80 Sand

0.80 - 2.00 Sand and gravels, with

blocks (max. 15cm).

G-2 Depth (m)

0.00 - 0.60 Sand(80%) and gravels(20%).

0.60 - 2.10 Gravels, with sand.

G-6 Depth (m)

0.00 - 0.80 Sand.

0.80 - 2.20 Gravels, with sand.

(2) BORROW AREA Gb

G-5 Depth (m)

0.00 - 0.80 Silty sand.

0.80 - 2.10 Sand(70%) and gravels(30%).

(3) BORROW AREA GC

G-7 Depth (m)

0.00 - 0.50 Sand.

0.50 - 2.00 Gravels, with sand.

G-12 Depth (m)

0.00 - 0.50 Gravels (80%) and sand (20%).

0.50 - 2.90 Gravels (60-70%), sand (20-30%) and boulders (5-10%, max.20x10x10cm).

(4) BORROW AREA Gd

G-3 Depth (m)

0.00 - 0.80 Sand.

0.80 - 2.60 Gravels, with sand.

G-4 Depth (m)

0.00 - 1.70 Gravels, with sand.

G-10 Depth (m)

0.00 - 2.40 Gravels, with sand and

boulders (20%).

G-11 Depth (m)

0.00 - 1.80 Gravels, with sand and boulders(10-15%).

(5) BORROW AREA Ge

G-8 Depth (m)

0.00 - 2.00 Sand(80-90%) and gravels (10-20%).

2.00 - 3.60 Gravels, with sand.

G-9 Depth (m)

0.00 - 2.50 Silty sand.

2.50 - 4.50 Gravels, with sand.

G-13 Depth (m)

0.00 - 0.90 Gravels.

0.90 - 1.30 Sand.

1.30 - 2.00 Gravels, with boulders (5%, max.15x20x30cm).

Attachment B2

Drilling Log

IR.3.D is About Quality Conjunction. A.O.D-(lotal length of cylindric cores longer than 10 ce)/(lotal drill length) x 100% NUMBERS MULE is I/ain/a wader injection vater pressure of (Okg/ca2 stopp) and ELEVATION are in mater

*DIMETED is to oillicator

SITE		Quarr	y Sit	e							HOLE NO. SK-311.			
LATITU	JOE	9783.						LONGITUDE 6568.96			ELEVATION		879.27m 59.00m	
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ANGLE		DOM		6.60	DIREC	CTION		160, 2 0.00. STODE	90. D	- 0°		<u>L</u>		
SCALE (m)	DATE	ОЕРТН	ELEVATION	GEOLOGICAL AGE	ROCK, TYPE	COLUMN	ROCK CLASS	OESCRIPTION	BIT & DIAMETER	GROUND LEVEL	CORE REC- OVERY X (m)	月.Q.D X (例)	MATER PRESSURE N Yajue Lugeon Yaju X Yajue: cm/	E TEST 18 (Sec
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						亞	2 :	hgray clay.		}				
32	٠. ١					芫荽	AD-CIV					<u> </u>		
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	. 1		845.62			吕			1					'
- 35		**	At3 67			五	IIIda					(1 S)		1
- 36	i				,	完		. 1			200.1123			
						臣	ADIV							
37						宝				ļ				
38	5/9 (38.¢o)	30.00	1.1			臣	Abili	· .			18 (3)	1 P P P		
39	İ	36.50 36.00	840.77 845.27			臣	ND-CIV				1,588			
- 3							Ab-∉III						7	
- 40						宝					MEM I	ig.		
45		90.12	_B38.52			跓		Slightly weathered rocks.			CHINESE .			
	7/9 (41.79)					臣		Hany greenish colored thin clay is seen along vertical-irregular. &	'		- 地震			
*	i					臣	A-m-bir	10-20deg. joints.						
- 43		i				臣			1		10.8			
44		į		ation	20	弦	{	•	ľ	Į.				
	i	44.78	_801.57	Nadire formation	Limestone	法			08,86		11/3			1 1
45				dire	5	汪								
- 46	. 8/9 (45.00)	45.00	533.2 7	z.		莊		Slightly weathered rock.			(20)	10 10		
	•					宝		Joints: 70-90deg. & 20-30deg.,			(Caron	(8) (6)		1
4/	٠.					完		partly with thin gray clay.			MARAI		1 1	
48						臣	Ab-cIV	Oxidation (brown color) is rare.						
49						亞			` 					
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ERI. 0.0 is Bock Quality Designation. N.D.Deflotal length of cylindric tores longer than 10 cs)/libtal drill) length) x 100x steep N MALUE is 1/lain/a under injection water pressure of 10kg/cs2 spepth and ELEVATION are in Bater DOLMETER is in millicater

ļ	SITE	<u> </u>	Quarr							HOLE NO.	SK-312					
	LATET	UDE	9521.						LONGITUDE 6600.14			ELEVATION			864.52m	
	DATE						DEPTH			50.00m						
į	ANGLE		0 190 190 190 190	.)	90 DIRECTION 2/0 5 5.00 SLOPE				ion?	ICREZON 9.						
	SCALE (m)	ш	оертн	ELEVATION	GEOLOGICAL AGE	ROCK TYPE	COLUMN	CLASS	DESCRIPTION	O S S B OVERY X			A.Q.D	N Value Luceon Value		
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	- 2				Quaternary	Talus deposit	A A A	0-Ed-e				19001	D001			
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	- 5		1.50	. 859 <u>.</u> 62			差		Highly weathered rock.			Fall				
	- 6 - 7	21/0		.				Bd		HC. 501		173				
	- B	30/9 [7.69]		658.92 			蓋	Aciii	Hoderately to slightly meathered rock. 7.70-7.90± Opening. Joints: 20-30deg. in general.			160	\$			
	- 9 - 10		8.80 9.23	ES R	-		五	Aditi	Fragments only: vertical joint with green clay.				5.0 9.0			
	- ii						差	ACIV	Moderately to slightly weathered rock. Joints, stained brown, partly with							
	12	· · .	12.80	_851.97			臣		thin green clay, 10-30 \$ 60-90deg. 14.50-15.60e	_			1251			
	- 13 - 14		11-18	53 K			臣	AC I I I	Fragments only, with vertical joint. 15.60-17.40m 60deg. joint, stained brown.							
	- 15		15.00 15.60	-			臣	ACIV	17.40-18.20a: Fragments.	08.101						
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	- 19				뮕		匿		Moderately to slightly weathered rock. Joints: 10-20deg., stained brown.							
	- 20 - 21		1 [813.52 B11.32			宝宝	AbIV	partly with thin green clay. Cores are partly fragments.							
	- 22		-				臣					110 20				
	- 23 24		23.89	<u>850.72</u>			臣	Ac-div	doderately to slightly meathered rock. Cores are fragmants only. Joint; 60deg. stained brown, partly with thin green clay.	08.86		(1.00)				
	- 25			U9.23			至	VF-CIA	Moderately to slightly weathered rock. Cores are partly fragments.	1,0.00						
	- 26		25.95 26.50				空产	Ab-cli	Joints; 60-90deg , stained brown, partly with thin green clay.							
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AN.O.O. to flock Quality Castignation. A.Q.D-[Intel length of cylindric cores longer than 10 col/[Intel criti length) = 100K MLECON YAUGE is 1/foin/a under injection water pressure of 10kg/co2
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NOIAMETER to in obliticator

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LATITE	JDE	9521	46					LONGITUDE 6600.14	<u>^</u>		ELEVATION DEPTH		50,00m			
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- 33						茳	AD-ETV	partly with thin green clay.		ŀ	111001					
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- 34		31.30	830.22			뫂	Ac-d(V	Fragments, Vertical joint with thin clay.				;g4 ₹30				
- 35		25.00	823,52 823,52			泽	NC-D	Clickly yeathaned cacke			nacai i a	1		1	1	
	- 1		٠.			臣	ADIV	Slightly weathered rocks. Joint; stained brown, partly with								
35					1	芸		clay, 10-30deg, rarely 60deg. 39.75-39.95m: Clay (20cm) in 60deg.	1			136 73.	1 1		1	1
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IR.O.O is fock Quality Designation, R.O.D-(Iotal length of cylindric cores longer than 10 cal/(Iotal drill length) x 100% SULPHY SHOP THE STATE OF THE ST B2 - 4 IDIANEIEN is in nillisator RUSAMEJEH 19 IN GHIJLESTOF

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