

## **II.2 Drilling Logs**



**Table 2 DRILLING LOGS**

Drawing No.	Hole No.	Drilled Length (m)	Permeability Test (nos)	Standard Penetration Test (nos)
1.	Damsite BD-1 (Inclined hole of 45°)	80	16	-
2.	Damsite BD-2 (Vertical hole)	50	9	-
3.	Damsite BD-3 (Vertical hole)	50	9	-
4.	Damsite BD-4 (Vertical hole)	50	9	-
5.	Damsite BD-5 (Vertical hole)	50	9	-
6.	Damsite BD-6 (Vertical hole)	50	9	-
7.	Damsite BD-7 (Inclined hole of 45°)	80	15	-
8.	Damsite BD-8 (Inclined hole of 45°)	40	7	-
9.	Saddle Damsite BS-1 (Vertical hole)	30	6	8
10.	Saddle Damsite BS-2 (Vertical hole)	35	7	8
11.	Saddle Damsite BS-3 (Vertical hole)	35	7	7
12.	Intake BW-1 (Vertical hole)	70	-	-
13.	Headrace Tunnel BW-2 (Vertical hole)	65	-	-
14.	Surge Tank BW-3 (Vertical hole)	90	-	-
15.	Penstock Line BW-4 (Vertical hole)	40	-	-
16.	Power House BW-5 (Vertical hole)	70	-	-
17.	Rigari Quarry BQ-1 (Vertical hole)	30	-	-
18.	Quarry-2 Site BQ-2 (Vertical hole)	35	-	-
19.	Quarry-2 Site BQ-3 (Vertical hole)	35	-	-
Total 19 Holes,		985 m,	103 nos,	23 nos



COORDINATION X: 9947,026,00 Y:722,126,00  
ELEVATION : 1564.50m. ANGLED 45° TO EAST DIRECTION

### DRILL LOG

HOLE NO. BD 1 SHEET NO. 1 OF 19

DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	CORE RECOVERY %	R. Q. D.	WATER PRESSURE TEST			DEPTH
							LUGEON VALUE	10	20	
279			4	0-7.50m: Dark red to brownish red laterite soil with much rock fragments of talus deposits derived from upper portion.						
		OVERBURDEN DEBRIS/ CLAY)	4	Angular rock fragments are of dolerite and andesite of 1-5cm dia.						
7.5	1559.20	Boulders AND SOIL (DEBRIS)	4	7.50-9.65m: Various kinds of boulders of 10 to 20cm dia. such as purple andesite, dolerite shalestone.	20	5				
9.65	1557.68	SHALE (WEATHERED AND ALTERED)		9.65-15.10m: Dark grey, friable by weathering, fault nearby located and altering by dolerite intrusion, shale stone. The rock is contained angular dark grey shale fragments as same as matrix.	CL	5	30			
15.1	1553.82	SHALE (ALTERED)		15.10-17.70m: Dark bluish grey, stable and hard shale stone. No indication of weathering. All cylindric core with altered conditions by dolerite thin dyke intrusion.	CM	5	15			
17.70	1551.98	DOLERITE DYKE INTRUSION		17.70-18.65m: Dark bluish grey, fragiled and fractured dolerite with much amygdules of 1-5mm.	CL	?	5			
18.0	1551.77			18.65-23.40m: Grey to brown, completely fragmented shale stone by faulting and developing cracks. Ca or seam is not much contained along the cracks. Bedding plane of 26° dip	D					
18.65	1551.31	FAULT FRACTURED ZONE OF SANDY SHALE		23.40-29.35m: Dark grey to purple grey, very hard and stable dolerite. Cracks of 10 to 40cm intervals white amygdules (5mm to 20mm dia.) and thin veins (5mm thick) of quartz are scattered sporadically. All cylindric core.	CH		55			
23.4	1547.9			29.35-30.15m: Many cracks are developing in 45° dip with ave. 5cm intervals.	CM					
30.15	1543.18	DOLERITE	+	30.15-35.30m: Dark grey, very hard and stable dolerite. No conspicuous phenocrysts but not glassy matrix. Coarse grain black minerals are unformed.	CH		50			
35.3	1539.54	DOLERITE	+	35.3-36.55m: Dark greenish grey dolerite. Many dark green phenocrysts are found out. (dia. 1-5mm)	CH		50			
36.55	1538.66		+				66mm			

HOLE NO. BD 1

( 19 )

HOLE NO.

(        )

Many banded or bedded quartzite of white col. are alternated in 3mm to 10mm thick.

ELABORAZIONE

卷之三

MILLION NUCI CO., LTD.  
CONSULTING ENGINEERS, TOKYO.

COORDINATION X: 9947,251,00 Y: 726,838,00  
 ELEVATION: 1659.70m.

HOLE NO. BD 2 SHEET NO. 2 OF 19

### DRILL LOG

DATE	DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	CORE RECOVERY %	R. Q. D %	WATER PRESSURE TEST	LUGEN VALUE	DEPTH
208	0.7 1659.0	TOP SOIL			0.0-0.7m: Dark red lateritic soil of cultivated land 0.7-1.6m: Red to chocolate col. laterite with gravels.					
	1.6-1.658.1	RESIDUAL SOIL			1.6-7.0m: Brown to red completely decomposed and heavily weathered andesite Some parts such as 2.0m, 3.7m and 6.0m are remained a little hard cores.	20				
		HEAVILY TO COMPLETELY WEATHERED ANDESITE			Mostly very fragile through this section and clayey in some parts.		15		Lu >100	
	7.0 1652.7	SLIGHTLY WEATHERED ANDESITE			7.00-9.00m: Dark greenish grey, very hard andesite with cracks of 10cm to 50cm intervals. White amygdalules of 5-10mm are frequently distributed in the flow structure of 24° dipping.	CM				
	9.0 1650.7									
	16.6 1643.1				9.0-40.6m: Pale greenish grey, very fresh and stable andesite. At 10.6-12.8m, dark green angularized patches of rock of 10mm to 40mm in size are sporadically found like a breccia. Flow structures of white amygdalules dip 65°. Many quartz veins of 5mm to 10mm develop in net or mosaic conditions with pyrite/chalcophyllite mineralized sporadically.	CM				
	17.5 1642.2									
	21.5 1638.2				ANDESITE	CH				
	22.7 1637.0									
	22.9									
	24.9									
	26.9									
	28.9									
	30.9									
	32.9									
	34.9									
	36.9									
	38.9									
	40.9									
	42.9									
	44.9									
	46.9									
	48.9									
	50.9									
	52.9									
	54.9									
	55.9									

HOLE NO. BD-2

( 19 )

HOLE NO.

( 2 )

24° dipping.

9.0-40.6m: Pale greenish grey, very fresh and stable andesite. At 10.6-12.8m, dark green angularized patches of rock of 10mm to 40mm in size are sporadically found like a breccia. Flow structures of white amygdalules dip 65°. Many quartz veins of 5mm to 10mm develop in net or mosaïc conditions with pyrite/chalcophyllite mineralized sporadically.

51 slightly deteriorated or weathered zones are:  
 16.60-17.50m and  
 21.50-22.70m: Slightly fractured and cracks developing in 10cm intervals.  
 22.7-40.6m: Dark greenish grey hard, fresh andesite. Many dark green phenocrysts of 1mm to 10mm are distributed in welded structure dipping 70°, matrix is mostly of dark grey feldspar.

small scale cavities of 10mm to 30mm size are particularly occurring and filled with crystalline quartz.

0.60-45.5m: Greenish grey, very hard and strong olivine. The boundaries of 40.60m and 45.5m gradually change from andesite of feldsite facies into diorite. Dark green phenocrysts are much developed than of upper portions of andesite above 40.60m. Crystal sizes of dolerite are much coarser of 3-5mm than andesite.

END OF HOLE

29  
OC FORM-C

II. 20

LOG FORM-C

**NIPPON KOEI CO., LTD.**  
CONSULTING ENGINEERS, TOKYO.

COORDINATION X:9947,138,00 Y:727,076,00  
ELEVATION 1560.00m.  
HOLE NO. B D 3 SHEET NO. 3 OF 19

## DRILL LOG

HOLE NO. BD 3 SHEET

ER CARE

WATER PRESSURE TESTS

## WATER PRESSURE TEST

DATE	DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	CORE RECOVERY %	R. Q. D.	WATER PRESSURE TEST LUGEON VALUE	DEPTH DEPTH
19/11/2023	1.0	1559.0	TOP SOIL		0-1.0m: Reddish brown plastic clay soil with tree roots	Chisel	2		
	1.5	1558.5	COMPLETELY WEATHERED HEAVILY WEATHERED QUARTZITE		1.0-1.5m: Light yellowish brown, completely weathered/decomposed rock of quartzite. CL 1.5-2.9m: Pale brown, heavily weathered, coarse grain quartzite. Along the cracks of 5-10cm intervals, yellowish clay intercalated in 3mm to 5mm thick.	D CL CM	10		
	2.9	1557.1	VERY SLIGHTLY WEATHERED QUARTZITE		2.9-5.5m: Dark grey, slightly weathered, very stable quartzite. Cracks of 5-10cm intervals are stained reddish yellow.	CH	50		
	5.55	1554.45							
	9.0	1551.0			5.55-34.45m: Grey, coarse grain, very hard quartzite. Quartz veins dipping in various angles are distributed frequently with thickness of 3-10mm.	CH	55		
	9.4	1550.6			Main cracks are 9.0m, 10.2m, 11.65m, 12.8m, 17.0m, 18.1m, and 19.60m. These cracks are stained yellowish brown.	CH	55		
	10.2	1549.8							
	10.5	1549.5							
	11.65	1548.35	FRESH QUARTZITE						
	12.80	1547.2							
	17.0	1543.0			17.00-17.35m: Black col. coarse mica minerals are concentrated, probably its origin is from argillaceous parts interbedded.	CH	25		
	17.35	1542.65							
	18.1	1541.9							
	19.6	1540.4							
	23.6	1536.4	TUFF		20.70-21.1m: Thick white quartz vein of 10mm is developed. The dip is 60°	CH	25		
	23.95	1536.05	INTERCALATED		22.6-24.25m: Cracks are developed frequently in the intervals of 5-15cm.	CH	25		
	26.45	1533.55			23.60-23.95m and 26.75-27.10m: Greenish grey shale intercation.	CH	25		
	26.75	1533.25			Flaky or fragile.	CH	25		
	27.1	1532.9			Dip of the tuff layers is 60°.	CH	25		
	34.45	1525.55							
	35.2	1524.8							
	35.0	1522.0	FINE TO MARSCH		34.45-43.00m: Pale grey to grey, fine to coarse grain, sandy quartzite. Very hard and stable. The boundaries of 34.45m	CH	35		

HOLE NO. BD 3

( 19 )

LOG FORM-C

10.5 1549.5 FRESH QUARTZITE  
 11.65 1548.35 CH  
 12.80 1547.2  
 13.9 1546.9  
 14.0 1543.0  
 17.35 1542.65  
 18.1 1541.9

17.00-17.35m: Black col.  
coarse mica minerals are concentrated, probably its origin is from argillaceous parts interbedded.

20.70-21.1m: Thick white quartz vein of 10mm is developed. The dip is 60°.

22.6-24.25m: Cracks are developed frequently in the intervals of 5-15cm.

23.60-23.95m and 26.75-27.10m: Greenish grey shallow tuff intercation.  
Flaky or fragile.  
Dip of the tuff layers is 60°.

26.45 1539.55

26.75 1533.25

27.1 1532.9

FRESH

QUARTZITE

Main cracks are 26.45m,  
35.2m and 38.0m

QUARTZITE

LOG FORM-C

HOLE NO. BD 3  
( 19 )

II. 21

LOG FORM-C

END OF HOLE

HOLE NO. ( 3 )

66.75 1515.25 FRESH QUARTZITE

43.00-50.15m: Grey, very hard, massive quartzite.  
All cylindric core.  
Main cracks are 44.75m,  
47.40m and 48.20m.  
These cracks are stained yellowish brown col.

43.0 1517.0

35.2 1524.8 FINE TO COARSE PSAMMITIC QUARTZITE

36.0 1522.0

34.45-43.00m: Pale grey to grey, fine to coarse grain, sandy quartzite. Very hard and stable. The boundaries of 34.45m and 43.0m between quartzite and sandy quartzite are gradually transformed.

Various degrees of size and thickness of white quartz veins are found in many places.

43.0 1515.25 FRESH QUARTZITE

47.4 1512.6

48.2 1511.8

50.15 1509.85

NIPPON KOEI CO., LTD.  
CONSULTING ENGINEERS, TOKYO.

COORDINATION X:9947,113,00 Y:727,128,00  
ELEVATION 1559.50m.  
HOLE NO BD 6 SHEET NO 6 OE 19

## DRILL LOG

HOLE NO. BO 4 SHEET NO. 4 OF 19

HOLE NO. BO 4

HOLE NO. BO 4 SHEET NO. 4 OF 19

HOLE NO. BO 4 SHEET NO. 4 OF 19

DATE	DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	WATER PRESSURE TEST			
						DEPTHE	CORE RECOVERY %	R. Q. D. %	
GRADE	ROCK DESCRIPTION	LEVEL GROUNDWATER	RECOVERY %	cm	%	10	20	30	
WATER PRESSURE TEST	LUGEN VALUE	DEPTHE	10	20	30	40	50	50	
2023-05-15	0.50	1559.0	TOP SOIL	0-0.5m:	Sandy silt with pebble and gravel, grass roots contains.	6	6	6	6
	RIVER SAND/ GRAVEL	0-3.0m:	Sand gravel and boulder of 1cm to 10cm dia composed of hydromicrite, dolerite.	10	8	10	10	10	10
3.0	1556.5	1550.7	SLIGHTLY WEATHERED DOLERITE	X	3.0-8.8m: Greyish green dolerite of coarse grain phenocrysts. Dark green amygdalite of clay mineral (chlorite) of 5mm to 30mm dia. are frequently distributed.  Cracks of 5 to 10cm intervals dip various degrees.	CL ~ CM	6	6	6
		14.6	DOLERITE	X	8.8-14.6m: Dark green, brecciated, but well closed between brecciated segments, coarse grain dolerite.  White quartz veins of 2mm to 20mm width are filled with brecciated blocks. Main dip of the veins is 70°.  Cracks of 10cm to 30cm intervals.	CM	15	15	15
		17.0	1542.5	X	14.60-17.00m: Dark grey, very hard quartzite. Along the cracks of 10 to 30cm intervals, crystalline qzs are found.	CH	20	20	20
		17.3	1542.2	X	17.00-17.30m:  Slightly fractured or cracks developed in the intervals of 5-10cm, dolerite. At 18.80-20.60m many amygdalites of 1mm to 7mm are observed. Mostly the amygdalites are empty inside of holes and some are filled with white quartz.	CH	30	30	30
		17.6	1544.9	X	14.60-17.00m: Dark grey, very hard quartzite. Along the cracks of 10 to 30cm intervals, crystalline qzs are found.	CH	22	22	22
		17.9	1542.2	X	17.00-17.30m:  Slightly fractured or cracks developed in the intervals of 5-10cm, dolerite. At 18.80-20.60m many amygdalites of 1mm to 7mm are observed. Mostly the amygdalites are empty inside of holes and some are filled with white quartz.	CH	35	35	35
		18.2	1542.2	X	17.00-17.30m:  Slightly fractured or cracks developed in the intervals of 5-10cm, dolerite. At 18.80-20.60m many amygdalites of 1mm to 7mm are observed. Mostly the amygdalites are empty inside of holes and some are filled with white quartz.	CH	55	55	55
		18.5	1542.2	X	17.00-17.30m:  Slightly fractured or cracks developed in the intervals of 5-10cm, dolerite. At 18.80-20.60m many amygdalites of 1mm to 7mm are observed. Mostly the amygdalites are empty inside of holes and some are filled with white quartz.	CH	33	33	33
		18.8	1542.2	X	17.00-17.30m:  Slightly fractured or cracks developed in the intervals of 5-10cm, dolerite. At 18.80-20.60m many amygdalites of 1mm to 7mm are observed. Mostly the amygdalites are empty inside of holes and some are filled with white quartz.	CH	33	33	33
		21.5	1528.0	X	31.5-33.8m: Pale grey, very hard, siliceous sandstone or sandy quartzite of coarse grain. Many quartz veins are distributed in 60° dipping. Cracks of 10-20cm intervals are stained yellowish brown.	CM	33	33	33
		35.5	1523.7	X	33.8-41.20m: Pale greenish grey, fine to coarse sandstone with tuff intercalation in the sections of 35.80-37.85m, 37.90-39.75m.	CH	30	30	30
		33.8	1525.7	X					

HOLE NO. BD 4

( 19 )

HOLE NO.

( 4 )

DULERITE      X      closed between brecciated segments, coarse grain dolerite.  
 White quartz veins of 2mm to 20mm width are filled with brecciated blocks. Main dip of the veins is 70°. Cracks of 10cm to 30cm intervals.

16.6 1544.9 QUARTZITE      X      14.60-17.00m: Dark grey, very hard quartzite. Along the cracks of 10 to 30cm intervals, crystalline qzs are found.

CM

CH

17.0 1542.5 FRESH DOLERITE      X      17.00-17.30m: Slightly fractured or cracks developed in the intervals of 5-10cm, dolerite. At 18.80-20.60m many amygdale of 1mm to 7mm are observed. Mostly the amygdales are empty inside of holes and some are filled with white quartz.

Cracks of 10 to 30cm intervals are stained in light reddish brown. Pyrite highly contaminated are at the depth of 24.50m and below that. Along the cracks of 60° dipping at 29.9-30.5m, thin quartz veins of 3mm to 5mm are filled in some 10cm intervals. All cylindrical core.

31.5 1528.0 PSAMMITIC QUARTZITE / SILICIOUS SANDSTONE      X      31.5-33.8m: Pale grey, very hard, silicic sandstone or sandy quartzite of coarse graine. Many quartz veins are distributed in 60° dipping. Cracks of 10-20cm intervals are stained yellowish brown.

33.8 1525.7 SANDSTONE WITH THIN TUFF INTERCALATED      X      33.8-41.20m: Pale greenish grey, fine to coarse sandstone with tuff intercalation in the sections of 35.80-37.85m, 38.35m and 38.70m. Bedding is 10° dip. Cracks of 10cm to 30cm intervals are frequent in the beddings between sandstone and tuff intercalated. Moderately stable.

35.9 1523.7 SANDSTONE WITH THIN TUFF INTERCALATED      X      41.20-47.80m: Pale grey, stable limestone. Massive. Cracks or fractured portions are 41.20m and 42.55-42.70m. Almost cylindric long core of 1.98m in maximum length. CH

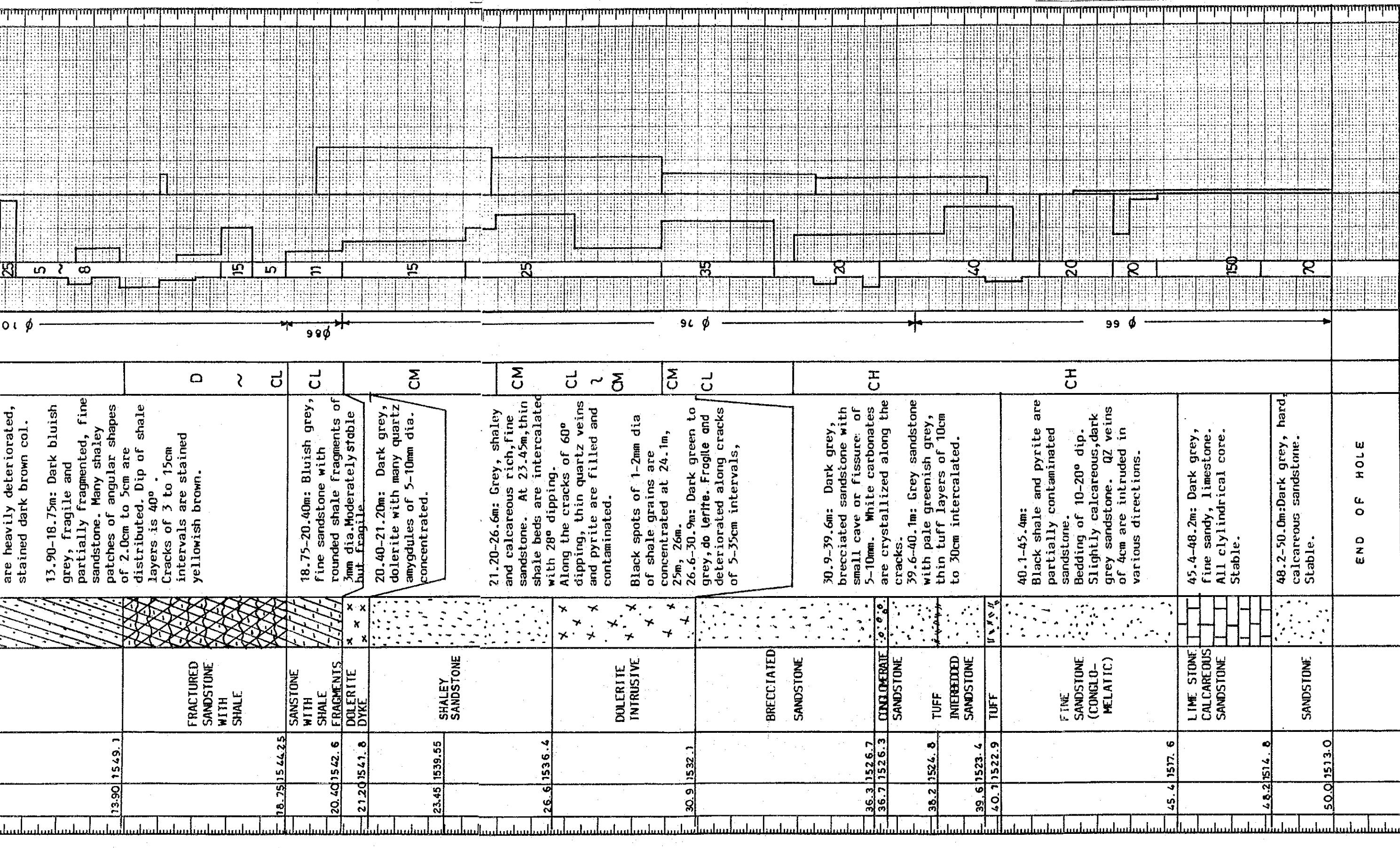
47.8 1518.3 LIMESTONE      X      47.80-50.0: Dark grey calcareous fine to coarse sandstone. White col. large size rounded quartz of 10mm to 20mm are sporadically found out. Qz veins are filled tightly in various dipping. All cylindric core.

END OF HOLE

# DRILL LOG

COORDINATION X:9947,096.00 Y:727,165.00  
ELEVATION 1563.00m.  
HOLE NO. BD 5 SHEET NO. 5 OF 19

DATE	DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	CORE RECOVERY %	R. Q. D %	WATER PRESSURE TEST LUGON VALUE	DEPTH
0.50	1562.5	TOP SOIL			0-0.5m: Reddish brown, laterite of top soil with organic contents.				
		DEBRIS/ CLAY	A A A		0.5-4.80m: Light reddish brown laterite with many deteriorated gravels of andesite, dolerite. Plasticity				
3.90	1559.1								
4.80	1558.2	DEBRIS			4.80-13.90m: Bluish to dark brown, completely fragmented and weathered sandstone.	3	~		
					Fractured zone 18 3.90-8.60m (cracks of 3cm interval), 9.1-10.2m (cracks of 5-8 cm intervals), and 10.8-13.00m (cracks of ave. 5cm intervals).	7			
13.90	1549.1				BLURSH SANDSTONE	CL			
					Fragile and crack surfaces are heavily deteriorated, stained dark brown col.				
16.75	1544.25	SANSTONE WITH SHALE FRAGMENTS			13.90-18.75m: Dark bluish grey, fragile and partially fragmented, fine sandstone. Many shaley patches of angular shapes of 2.0cm to 5cm are distributed. Dip of shale layers is 40°. Cracks of 3 to 15cm intervals are stained yellowish brown.	D			
20.40	1542.6	DOLERITE DYKE	x x x						
21.20	1541.8	FRACTURED SANDSTONE WITH SHALE			18.75-20.40m: Bluish grey, CL fine sandstone with rounded shale fragments of 3mm dia. Moderately stable but fragile.	CL			
					20.40-21.20m: Dark grey, dolerite with many quartz amygdules of 5-10mm dia. concentrated.	CM			
23.45	1539.55	SHALEY SANDSTONE							
					21.20-26.6m: Grey, shaly and calcareous rich, fine sandstone. At 23.45m, thin shale beds are intercalated with 28° dipping. Along the cracks of 60° dipping, thin quartz veins and pyrite are filled and contaminated.	CM			
26.6	1533.6.4								
					Black spots of 1-2mm dia of shale grains are concentrated at 24.1m, 25m, 26m.	CL			
30.9	1532.1	DOLERITE INTRUSIVE	x x x .		26.6-30.9m: Dark green to grey, dolerite. Fragile and deteriorated along cracks of 5-35cm intervals,	CM			
		BRECCIADED SANDSTONE							
36.3	1526.7				30.9-39.6m: Dark grey, brecciated sandstone with small cave or fissure of 5-10mm. White carbonates are crystallized along the cracks.	CH			
36.7	1526.3	UNDETERMINED			39.6-40.1m: Grey sandstone				
		SANDSTONE							

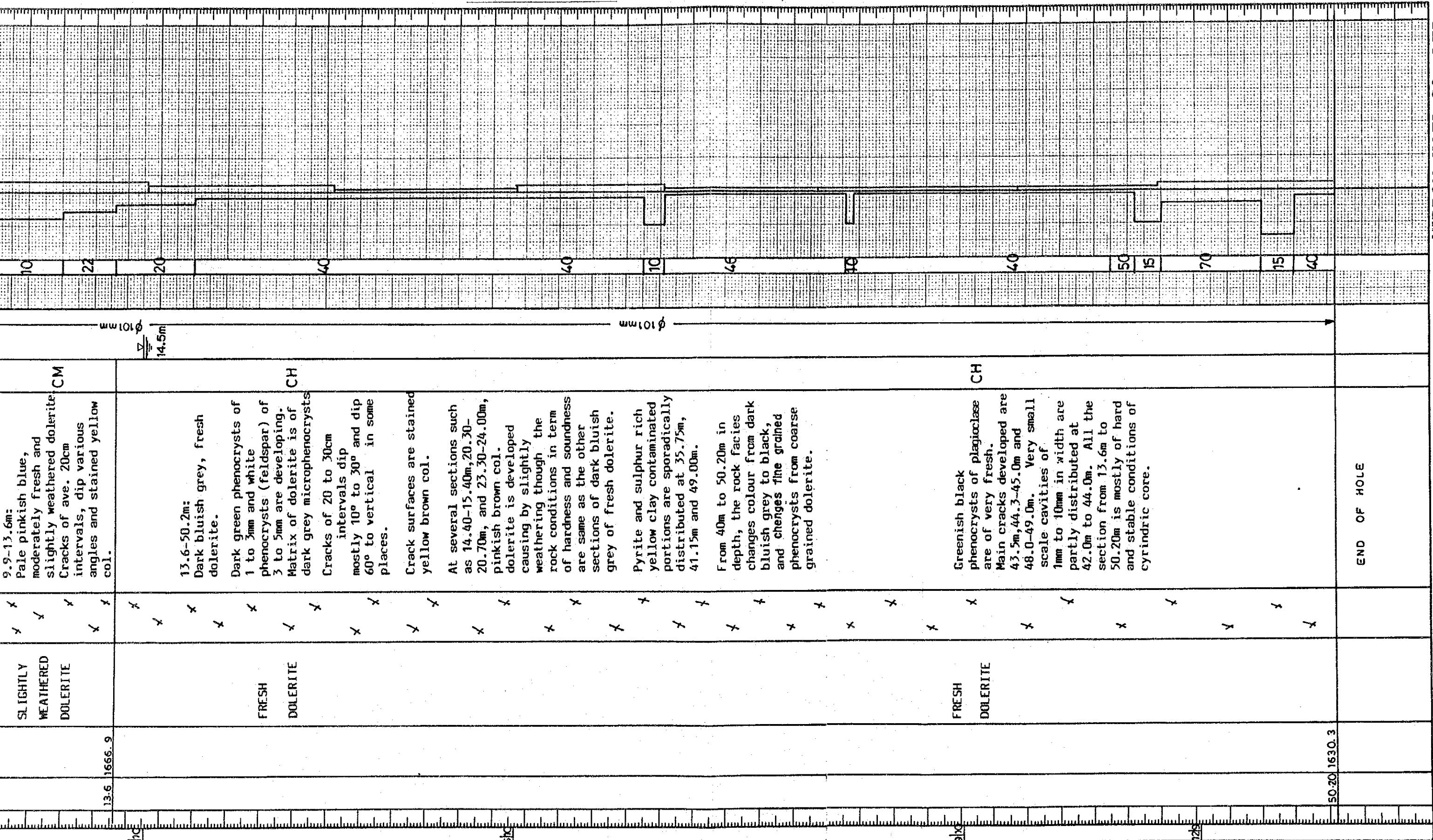


**DRILL LOG**

X: 9946, 968.00 , Y: 727, 430.00 , ELEVATION : 1680.50m.

HOLE NO. BD\_6 SHEET NO. 6 OF 19

DATE	DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	WATER PRESSURE TEST			DEPTH		
						GRADe	LEVEL	core recovery %	R. Q. D.	LUGEON VALUE	
29/3	1.0 1679.5	1679.5	TOP SOIL	X	0-1.0m: Dark reddish brown organic clay of top soil with grass roots. 1.0-3.0m: Red laterite silty clay of residual soil.			0			50
	3.0 1672.5	1672.5	WEATHERED DOLERITE	X / X / X / X / X	3.0-5.3m: Pale brown weathered dolerite. Open cracks developing in the intervals of ave 10cm. All the cracks are stained reddish brown.	CL	20				50
5.3 1675.2			MODERATELY WEATHERED DOLERITE	X / X / X / X / X	5.3-9.9m: Pale brown to pinkish blue, moderately weathered dolerite remaining ~ the hard rock conditions between cracks. White col. angulars of 5 to 8mm dia. are frequently scattered. Cracks intervals of 10 to 20cm.	CL	10				
9.9 1670.6			SLIGHTLY WEATHERED DOLERITE	X / X / X / X / X	9.9-13.6m: Pale pinkish blue, moderately fresh and slightly weathered dolerite. Cracks of ave. 20cm intervals, dip various angles and stained yellow col.	CM	10				
13.6 1666.9			FRESH DOLERITE	X / X / X / X / X	13.6-50.2m: Dark bluish grey, fresh dolerite. Dark green phenocrysts of 1 to 3mm and white phenocrysts (feldspar) of 3 to 5mm are developing. Matrix of dolerite is of dark grey microphenocrysts Cracks of 20 to 30cm intervals dip mostly 10° to 30° and dip 60° to vertical in some places.	CH	40				
				X / X / X / X / X	Crack surfaces are stained yellow brown col.						
				X / X / X / X / X	At several sections such as 14.40-15.40m, 20.30-20.70m, and 23.30-24.00m, pinkish brown col. dolerite is developed causing by slightly weathering though the rock conditions in term of hardness and soundness are same as the other sections of dark bluish grey of fresh dolerite.						
				X / X / X / X / X	Pyrite and sulphur rich yellow clay contaminated portions are sporadically distributed at 35.75m, 41.15m and 49.00m.						
				X / X / X / X / X	From 40m to 50.20m in depth, the rock facies changes colour from dark bluish grey to black, and changes fine grained phenocrysts from coarse grained dolerite.						
				X / X / X / X / X							



# DRILL LOG

COORDINATION X: 9947, 200,000 Y: 727,132,00  
ELEVATION: 1658.80m. ANGLED 45° TO EAST DIRECTION  
HOLE NO. BD7 SHEET NO. 7 OF 19

DATE	DEPTH	ELEVATION	ROCK TYPE OR FORMATION	COLUMN SECTION	DESCRIPTION	CORE RECOVERY %	R. Q. D.	WATER PRESSURE TEST LUGEN VALUE	DEPTH
39	2.50	1657.03	RESIDUAL SOIL WITH GRAVELS	• o	0-2.50m: Reddish brown, laterite clay and silty soil with grass roots and rounded gravels of andesite/dolerite. Dia of gravels is in 3cm.	0	CH	2.5m	50
	5.0	1655.3	VERY SLIGHTLY WEATHERED ANDESITE	v v	v 2.50-5.0m: Purple to blue slightly weathered andesite. Dark green phenocrysts of 1-5mm dia. are frequently developed.	30	CM	35	50
	12.75	1649.78	PURPLE ANDESITE	v v	v 5.0-20.7m: Bluish purple, very hard, fresh, stable andesite. Almost all cylindric core.	10	CH	35	50
	13.35	1649.36	DOLERITE DYKE	v v	v Cracks of 10cm to 20cm intervals are developed.	10	CM	35	50
	13.90	1648.97		v v	v Crack surfaces is stained in yellowish brown or dark purple brown.	10	CH	35	50
	15.20	1648.05		v v	v At 13.35m to 13.9m, cracks develop in the intervals less than 10cm. The rock in this section is hard though brecciated portion exist.	10	CM	35	50
	20.70	1644.2	ANDESITE	v v	v The crack surface of 15.20m is stained in dark green col.	10	CH	35	50
	22.15	1643.14		v v	v The dark green phenocrysts existing between 14.05 to 14.90m are slightly welded wish dipping of 50°	10	CH	35	50
	23.6	1642.11	LARGE PHTNOMYSTS	v v	v At 22.15m to 23.60m, cracks are very densely or frequently developed in 3cm to 10cm intervals.	10	CM	35	50
	24.5	1641.50	DEVELOPED	v v	v At 24.50m to 25.30m, cracks are developed.	10	CH	35	50
	25.3	1640.91		v v	v 20.70-27.55m: Dark purple grey, many dark green, large, phenocrysts developed andesite.	8	CM	35	50
	27.55	1639.32	BLUISH ANDESITE	v v	v 27.55-35.30m: Dark blue to purple, glassy and massive, lesser phenocrysts andesite.	8	CH	35	50
	35.3	1633.84		v v	v All cylindric core.	8	CH	35	50
				v v	v Max. core length of 45cm.	8	CM	35	50
				v v	v 35.3-39.70m: Purple to blue, large size phenocrysts developed, hard andesite.	8	CM	35	50
				v v	v Cracks are moderately to	8	CM	35	50



HOLE NO

HOLE NO.

7 )

NIPPON KOEI CO., LTD.  
CONSULTING ENGINEERS, TOKYO.