FORM No. H.E. 360360

DRILLING RECORD

AREA: GORDON RIVER POWER DEVELOPMENT - STAGE I.	POSITION	CO-ORDINATES:	E. 398 kyds 1227 ft	N. 734 kyds 1002 ft	HOLE No. 6838
LOCATION: SERPENTINE DAMSITE - LEFT ABUTMENT.		ON LINE:	BEARING:	AT CH:	
GEOLOGICAL PLAN: SURVEY PLAN: XS 1402.		AT STN:	BEARING:	DIST:	FILE No.
DATES (a) DRILLED: 9-10-70 (b) WATER TABLE:	LEVEL	SURFACE	COLLAR	WATER TABLE	
METHOD: E 1000 D.D. DIAMETER: NMLC.		S.L. 930	S.L. 930		SHEET 1 OF 1 SHEETS
SITE REMARKS: Hole drilled Upstream of Dam - angled Downstream beneath Plinth - Left Abutment, same site as D.H.s 6837, 6839.	INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		~~VERT./HOR.~~/INC.	10°	295°	

Fe. St. - limonite stained
q - quartz vein
w - weathered

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS FRACTURES No. Per 100 Feet	ATTITUDE	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
0			NX								Rock is massive white-brown-grey quartzite with some "spotted" phases. The "spots" are probably groups of micas and granular quartz which are often limonite stained or have been etched during drilling. Quartzite is fresh hard + massive with interfoliated bands of black schist ranging from ½" to 14". Marked iron staining from 17'2" - 52'7". Fractures as shown.
			NMLC								
5'					6" schist q					0.6 gal/min. 50 p.s.i	
								Foliation			
10'					2" schist						
					2" schist						
15'										0.6 gal/min. 50 p.s.i	15' - 25' :- Water lost into DH6837 (above), probably through broken core at 16'-6"
					Fest						
20'											
					2" schist					6.2 gal/min. 50 p.s.i	
25'											
					14" consist					0.6 gal/min. 50 p.s.i	14" band contorted schist and quartzite
30'											
					6" schist			Joints			6" Broken zone - prominent joints oblique to core, surfaces Fe stained - vuggy.
					3" schist						Sequence of joints oblique to core axis - as shown spaced 4"-8" apart. Schistose foliation. Joints limonite stained some clay on surfaces - approx normal to foliation.
35'											
					1" schist					1.6 gal/min. 50 p.s.i	
40'											
45'											
50'										4.2 gal/min. 50 p.s.i.	2" Broken zone - closely spaced joints - Fest. and clayey
											11" schist band at 51'.0" - broken along foliation Fe. st and clayey - probable zones of water loss.
55'											
										3.6 gal/min. 50 p.s.i.	Zone of leached open joints - probable zone of water loss.
60'											
65'					3" w schist						Hole Completed - 66' 4".
											Hole logged - G.T. Hancox 4 Nov. 1970
70'											
75'											
80'											
85'											
90'											
95'											
100'											