FORM No. H.E. 443

DRILLING RECORD

SCHEME:- DERWENT — DEE

LOCATION:- PENSTOCK BELOW THE BROAD R.

POSITION PLOTTED ON DRAWING No. A3725

DATES: (a) DRILLED June '56 (b) WATER TABLE

METHOD USED: E1000 DIAMETER NX, Bx, Ax

SITE REMARKS: River Terrace

POSITION — CO-ORDINATES: E: N: HOLE No. 8980

ON LINE T404 / T405 BEARING: AT CH:

FROM STN. T404 BEARING 334°0' DIST 126'

LEVEL — SURFACE: FORMATION: WATER TABLE:

378·4

INCL. — HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING:

VERT ~~HORIZ~~ 90°

FILE No.

SHEET 1 OF 2 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0·2 0·4 0·6 0·8 1·0	GRAPHIC LOG	JOINTS	Drilling Mud	REMARKS
	0'						
	5'						Sandy clay & fragments of medium–coarse grained dolerite, some show rounding & weathered margins. At least one fragment of rounded quartzite.
	10'						Alluvial Material
							← Hole Caving
	15'						River Terrace
	20'						
					W		Yellow, brownish yellow & grey with abundant fine mica & black staining, ?wad (i.e. oxides of manganese) The lighter colours are due to weathering. Some thin silty & sandy phases present. A few scattered weathered joints. Intersection angle of bedding 85°–90°
	25'						Mudstone
	30'						
	35'						Fine brownish yellow & grey with abundant fine mica & a few weathered joints down to 44'. Some silty phases & wad staining present. Sandstone below 44' is grey & shows very little weathering. Intersection angle of bedding 85°–90°
					W		Sandstone
	40'				W		
	45'						
	50'						?Mudstone (No core) Driller reports very soft.
					W		Sandstone Medium–coarse brownish yellow with sub-angular to rounded quartz grains. Weathered joints present.
	55'						Mudstone Grey & dark grey with abundant fine mica and sandy & silty phases from 55' to 56'.
	60'				W		Sandstone medium–coarse light brownish yellow & grey. As above.
							Sandstone & Mudstone Zone of inter bedded fine sandstone & mudstone.
	65'						
					C		Grey mudstone as above with a few thin calcite filled joints. Rock is hard and not weathered. Silty & sandy phases from 76' to 79'.
	70'				C		Mudstone
					C		
	75'						
	80'						Intersection Angle 85°
							Sandstone Light grey medium grained as above coarse & fine phases.
	85'						
							← Intersection Angle 85°
	90'				C		Sandstone Grey very fine grained with silty phases & mica. As above
					C		Siltstone & mudstone phases at 96' & 99'–108'8". Small scale cross bedding. Intersection angle 72°–90°.
	95'						
	100'						

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- DERWENT—DEE

LOCATION:- PENSTOCK BELOW THE BROAD R.

POSITION PLOTTED ON DRAWING No.: A3725

DATES: (a) DRILLED: June '56 (b) WATER TABLE:

METHOD USED: E1000 DIAMETER: NX Bx, Ax

SITE REMARKS: River Terrace

POSITION — CO-ORDINATES: E: N: HOLE No. 8980

ON LINE T404/T405 BEARING: AT CH:

FROM STN T404 BEARING: 334°0' DIST: 126'

LEVEL — SURFACE: 378·4 FORMATION: WATER TABLE:

INCL. — HOLE DRILLED: DEPRESSION ANG.: 90° INCL. BEARING:

VERT/~~HOR~~ INC.

FILE No.

SHEET 2 OF 2 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0·2 0·4 0·6 0·8 1·0	GRAPHIC LOG	JOINTS	WATER	REMARKS
	100'						Sandstone — As above
	105'						
	110'						Mudstone — Hard dark grey with fine mica flakes As above
	115'						
							Light grey medium-fine grained with mica As above — Sandstone
	120'						Sandstone — Light grey medium-fine grained with mica + fine dark grey clay pellets + silty bands
	125'						Sandstone — Grey medium-coarse grained with mica. As above
	130'						Mudstone — Hard grey mudstone, mica & silty pha
	135'						Intersection angle 80°
	140'						Sandstone — Grey fine-medium grained with mica & silty phases. As above
	145'						Sandstone — Grey medium-coarse grained with mica. As above. A few scattered small clay pellets. Intersection angle of bedd 65–90°
	150'						
	155'						Note :- Sediments belong to the Knockloffy Formation
	160'						Hole completed at 149' 7"
	165'						Logged by A.P. Mather
	170'						22-6-56.
	175'						
	180'						
	185'						
	190'						
	195'						
	200'						