

# DRILLING RECORD

AREA: Mersey-Forth Power Development.	CO-ORDINATES:	E:	N:	HOLE No.
LOCATION: Lemonthyme Penstock.	ON LINE: <u>BM29</u> <u>RW30</u>	BEARING: 0°00'	AT CH:	5833
GEOLOGICAL PLAN: A10655 SURVEY PLAN: S413076 1/3	AT STN: <u>BM29</u>	BEARING: 345°31'	DIST: 307'	FILE No.
DATES (a) DRILLED: Oct. 63 (b) WATER TABLE:	SURFACE	COLLAR	WATER TABLE	SHEET
METHOD: <u>D. D.</u> DIAMETER: <u>NX, NMLC.</u>	1105			1 OF 2 SHEETS
SITE REMARKS: <u>Shallow depression.</u>	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
	VERT. <del>ROTTING</del>	90°		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
0										
0-20'		11"								Yellowish-reddish brown and reddish brown soft to firm clay containing rounded to angular pebbles and cobbles of quartzite and dolerite, some slicken siding. A mixture of soil creep & solifluction debris.
20-24'		11"	40' NX							Black, soft to hard, compacted but uncemented clay. Channel filling.
24-33'										Yellowish-reddish brown soft to firm clay containing sub-rounded to angular quartzite dolerite and basalt pebbles. Solifluction debris.
33-56'						2				Dark greenish-gray, medium hard, partially weathered tillite containing thin bands of silt and fine sand. 46-50' yellowish-greenish grey silt and silty clay.
56-71'										70'-71' Yellowish-greenish grey fine sand and silt.
71-85'		12"								Dark greenish-grey, medium hard to hard, moderately well cemented tillite. Angular to sub-rounded boulders, cobbles, pebbles and granules of dolerite, quartzite, schist and basalt in a silty-argillaceous to arenaceous matrix. Contains bands (to 4") of silt, fine sand and clay. Boulders to 1 1/2" diameter. Moderately jointed; joints tight.
85-91'						0.5				91'-92' Yellowish-greenish grey coarse sand, loosely cemented.

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LOCATION: <i>Lemon thyme Penstock</i>	ON LINE: <i>BM 29</i> <i>W 30</i>	BEARING: <i>0°00'</i>	AT CH:	<i>5833</i>
GEOLOGICAL PLAN: <i>A10655</i> SURVEY PLAN: <i>SA138761/3</i>	AT STN: <i>Bn 29</i>	BEARING: <i>345°31'</i>	DIST: <i>307'</i>	FILE No.
DATES (a) DRILLED: <i>Oct. 63</i> (b) WATER TABLE:	SURFACE	COLLAR	WATER TABLE	
METHOD: <i>D.D.</i> DIAMETER: <i>NX, NMAC</i>	<i>1105</i>			
SITE REMARKS: <i>Shallow depression.</i>	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	SHEET
	VERT. <i>1105</i>	<i>90°</i>		<i>2</i> OF <i>2</i> SHEETS

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY		GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
				0	100						
10'						Δ 0	0-25				
10 1/2'						0					
110'						Δ 0					
115'						0					
120'						Δ 0					
125'						0	2				
127-132 1/4'						█					Medium grey, soft to medium hard and friable weathered to partially weathered schist. Moderately jointed. Dip of foliation 80° to vertical.
130'						█					
135'						█					
140'						█					
45'											N.B. Presence of black clay 20'-24' interbedded with clayey till and overlying tillite indicates a Pleistocene age for the channel filling found at the eastern end of the Penstock Line.
50'											
55'											
60'											Hole Completed 132 1/4"
65'											Logged by: S. J. Paterson & G. Rowlings 12.11.63.
70'											Re-logged 8.3.65.
75'											
80'											
85'											
90'											
95'											
100'											

12"  
Broken piece