FORM No. H.E. 443

GEOLOGICAL LOG OF DRILL HOLE

AREA: GORDON STAGE 1

LOCATION: STORAGE AREA

GEOLOGICAL PLAN: SURVEY PLAN: SA - 429 700

DATES (a) DRILLED: 6 Dec 68 (b) WATER TABLE:

METHOD: DD CORE SIZE:

FR Fresh MW Moderately Weathered
FRST Fresh Stained Joints HW Highly Weathered
SW Slightly Weathered. CW Completely Weathered

POSITION	CO-ORDINATES:	E. 429.2761	N. 702.2154	HOLE No. 190
	ON LINE:	BEARING:	AT CH:	
	AT STN:	BEARING:	DIST:	FILE No.
LEVEL.	SURFACE	COLLAR	WATER TABLE	
	1015			
INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	SHEET 1 OF 6 SHEETS
	VERT/~~HOR./INC~~	90°	-	

Logged by: V.E. Thomson
Checked by:
Date: May 1969

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	STRUCTURES, JOINTS, etc. No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	
0'			NQ				Yellow			MW-SW
5'										SW-MW QUARTZITE or Sandstone
10'			NX				Yellow Wash			SW
15'										12ins CLAYSTONE
20'						Broken rock	Yellow			FR-SW CLAYSTONE 12ins SW-MW SANDSTONE
25'						mostly broken rock				MW-HW SW-MW CLAYSTONE, moderately firm, limonite stained
30'							Yellow Red			MW-HW QUARTZITE, friable mostly SW
35'		Sticks 3, 6, 12 ins					Red Yellow			SW-MW deeply limonite stained FR PHYLLITE
40'										SW-MW
45'		Core in fragments				mostly broken rock	Yellow			limonite stained SANDSTONE BRECCIA
50'										
55'							Red Yellow			12ins PHYLLITE, FR
60'		Core mostly sticks 3, 6, 12 ins,					Red			36ins PHYLLITE, mostly FR
65'							Red Yellow			FR-SW
70'										weak rock, HW, 6ins mostly FR
75'							Red			
80'							Red Yellow			
85'										CW PHYLLITE, very soft, very weak, turned to mud at 81ft 3ins FR PHYLLITE, weak
90'		Core mostly sticks 1-10 ins				Joints at 25°, 55° Broken rock				MW PHYLLITE, weak, limonite stained and bleached
95'										
100'										

FORM No. H.E. 443

GEOLOGICAL LOG OF DRILL HOLE

AREA: GORDON STAGE I.

LOCATION: STORAGE AREA

GEOLOGICAL PLAN: SURVEY PLAN:

DATES (a) DRILLED: (b) WATER TABLE:

METHOD: CORE SIZE:

FR Fresh MW Moderately Weathered
FRST Fresh Stained Joints HW Highly Weathered
SW Slightly Weathered. CW Completely Weathered

POSITION			
	CO-ORDINATES:	E:	N:
	ON LINE:	BEARING:	AT CH:
	AT STN:	BEARING:	DIST:

LEVEL.			
	SURFACE	COLLAR	WATER TABLE

INCL.			
	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION
	VERT/HOR/INC.	90°	—

HOLE No. 190

FILE No.

SHEET 2 OF 2 SHEETS

Logged by: V.E. Thomson

Checked by:

Date: May 1969

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	STRUCTURES: JOINTS, etc. No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE
0			NX			Bedding at 50°	Ye	DW	
5									
10									
15									
20									
25									
30									
35						fragments			
40									
45									
50									
55									
60									
65									
70									
75							Mud		
80									
85									
90									
95						very broken rock			
100									

mostly fragments 1/2 - 2 ins

NOT SHOWN

PHYLLITE, limonite stained, weak

MW

mostly PHYLLITE

QUARTZITE fragments

QUARTZITE fragments

CHERT and CHERT BRECCIA, recemented

SW-MW

mostly PHYLLITE

MW

FORM No. H.E. 443

GEOLOGICAL LOG OF DRILL HOLE

AREA: GORDON STAGE 1: LAKE EDGAR DAM

LOCATION: STORAGE AREA

GEOLOGICAL PLAN: SURVEY PLAN:

DATES (a) DRILLED: (b) WATER TABLE:

METHOD: DIAMOND HYDRAULIC CORE SIZE: NMLC

FR Fresh MW Moderately Weathered
FRST Fresh Stained Joints HW Highly Weathered
SW Slightly Weathered CW Completely Weathered

POSITION	CO-ORDINATES:	E:	N:	HOLE No. M10
	ON LINE:	BEARING:	AT CH:	
	AT STN:	BEARING:	DIST:	FILE No.
LEVEL.	SURFACE	COLLAR	WATER TABLE	
				SHEET 3 OF 6 SHEETS
INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
	VERT./HOR./INC.	90°	—	

Logged by: V.E. Thomson
Checked by:
Date: May 1969

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY % (20 40 60 80 100)	GRAPHIC LOG	STRUCTURES: JOINTS, etc. No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE
0'							Mud		
20'									
25'									
30'									
35'									
40'									
45'									
50'									
55'									
60'									
65'									
70'									
75'									
80'									
85'									
90'									
95'									
100'									

CHERT
MW

mostly PHYLLITE

SW - MW

Core in sticks & ins fragments 1-2 ins

MW PHYLLITE or CLAYSTONE

Sticks

Zones of fragments

mostly
CW

fragments

PHYLLITE or CLAYSTONE, very weak rock:
Some of core is mud

mostly fragments

quartz gravel pebbles.
Caving from higher level?

mostly

HW - CW

fragments and sticks 3 - 6 ins

18 ins broken rock

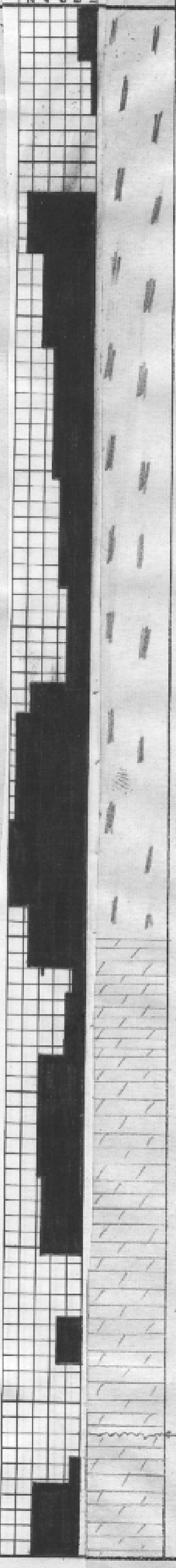
FORM No. H.E. 443

GEOLOGICAL LOG OF DRILL HOLE

AREA: *GORDON STAGE 1: LAKE EDGAR DAM*	POSITION	CO-ORDINATES:	E:	N:	HOLE No. *190*
LOCATION: *STORAGE AREA*		ON LINE:	BEARING:	AT CH:	
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN:	BEARING:	DIST:	FILE No.
DATES (a) DRILLED: (b) WATER TABLE:	LEVEL	SURFACE	COLLAR	WATER TABLE	
METHOD: *DIAMOND HYDRAULIC* CORE SIZE: *NMLC, BMLC*					
FR Fresh / FRST Fresh Stained Joints / SW Slightly Weathered / MW Moderately Weathered / HW Highly Weathered / CW Completely Weathered	INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	SHEET *4* OF *6* SHEETS
		VERT/HOR/INC.	*90°*	—	

Logged by: *V.E. Thomson*
Checked by:
Date: *May 1969*

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY % (20 40 60 80 100)	GRAPHIC LOG	JOINTS No. Per Foot	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	DESCRIPTION
300'		*sticks 3, 6 ins, fragments 1/2 in, fines* (300'–320')	B							← *friable sandstone*
305'										*mostly HW-CW* — *mostly PHYLLITE converted to clay.*
310'										
315'										
320'		*sticks*								
325'										
330'										
335'										*CW* *mud and fines*
340'										← *scattered angular fragments of siliceous argillite, light grey.*
345'										*HW*
350'										
355'										*silty mud*
										HW
360'		*sticks 2-3 ins, fragments 1/2-1 in* (360'–380')								
365'										← *TS 0533 (Dolomite or dolomitic limestone, recrystallized)*
										SW-FR
370'										*Fine grained DOLOMITE, pale coloured (dolomitic limestone)*
375'										
380'		*mostly fragments 1/2-2 ins, sticks 1-3 ins* (380'–400')								← *TS 0503 (Limestone).*
385'	*BMLC*									
390'					*fine fragments*					
395'										
400'										



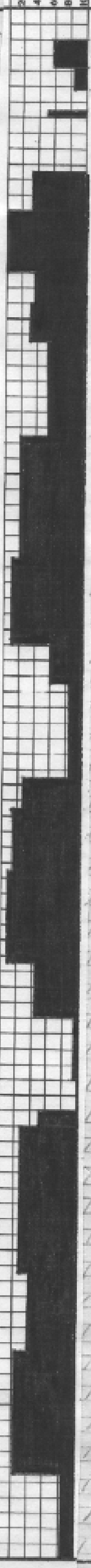
FORM No. H.E. 443

GEOLOGICAL LOG OF DRILL HOLE

AREA: GORDON STAGE 1 : SCOTTS PEAK	POSITION	SCALED CO-ORDINATES:	E.	N:	HOLE No. 190
LOCATION: STORAGE AREA		ON LINE:	BEARING:	AT CH.	
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN:	BEARING:	DIST:	FILE No.
DATES (a) DRILLED: (b) WATER TABLE:	LEVEL	SURFACE	COLLAR	WATER TABLE	
METHOD: DIAMOND HYDRAULIC CORE SIZE: BMLC					SHEET 5 OF 6 SHEETS
FR Fresh; MW Moderately Weathered; FRST Fresh Stained Joints; HW Highly Weathered; SW Slightly Weathered; CW Completely Weathered	INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		VERT/HOR/INC.	90°	—	

Columns: DEPTH | CORE DRAWN | CORE LENGTH | CASING | RECOVERY % (20 40 60 80 100) | GRAPHIC LOG | STRUCTURES JOINTS No. Per Foot | FLUID RETURN | GROUND WATER | WATER PRESSURE TESTS LEAKAGE

Logged by: V.E. Thomson
Checked by:
Date:



Depth	Core length	Casing	Graphic log	Structures / Joints	Fluid return	Description
400'	mostly fragments 1/2 - 1 1/4 ins, sticks [illegible]	Ax			Grey	DOLOMITE (Dolomitic Limestone), mostly pale grey, calcite veined. Joints spaced at 2-4 ins; joints mostly at 10°, 70-80°. Many incipient fractures.
405'				fragments 1/2 - 1 in		
410'	sticks 3 ins, fragments			6 ins fragments 1/2 - 1 1/2 ins		mostly FR
415'			NO CORE			
420'						← TS 0534 (Dolomite or dolomitic limestone)
425'–445'	sticks mostly about 2, 3 ins, range 1-5 ins and fragments					
450'				joint at 70°, clean		← SW on joint at 70° (approximate position)
455'	fragments 1/2 - 2 ins					mostly FR
465'	mostly sticks mostly 2-3 ins					← SW (pale brownish appearance of core)
467'						← 14 ins stick
472'				joint at 80°		
483'	mostly fragments 1 - 2 ins			joints at 40°, 80°, clean		mostly FR
500'				joint at 30°		

FORM No. H.E. 443

GEOLOGICAL LOG OF DRILL HOLE

AREA: GORDON STAGE 1: SCOTTS PEAK

LOCATION: STORAGE AREA

GEOLOGICAL PLAN: SURVEY PLAN:

DATES (a) DRILLED: (b) WATER TABLE:

METHOD: DIAMOND HYDRAULIC CORE SIZE: BMLC, AX

FR Fresh MW Moderately Weathered
FRST Fresh Stained Joints HW Highly Weathered
SW Slightly Weathered CW Completely Weathered

POSITION			
CO-ORDINATES:	E:	N:	HOLE No. 140
ON LINE:	BEARING:	AT CH:	
AT STN:	BEARING:	DIST:	FILE No.
LEVEL: SURFACE	COLLAR	WATER TABLE	
	1015		
INCL.: HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	SHEET 6 OF 6 SHEETS
VERT./HOR./INC.	90°	—	

Logged by: K.E. Thomson
Checked by:
Date:

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY % (20 40 60 80 100)	GRAPHIC LOG	STRUCTURES JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE
500'	BMLC	1/4 — 1 in fragments				one inch recovered	Grey		
505'						a few 1/2 in fragments recovered			
510'						a few 1/2 - 1 in fragments recovered			
515'					NO CORE	one 1/2 in fragment recovered			
520'					NO CORE				
525'						bits of mostly 1/2 in fragments			
530'									
535'									
540'	AX	mostly fragments							
545'									
550'		mostly 1-2 in sticks			NO CORE		lost		
555'						2 ft bias sticks mostly 1 in, one 9 in			
560'						2 fragments 1/4 - 1 in			
565'	BMLC	mostly rocks 2-3 ins long, 6 ins				joint at 80°			
570'						fragments 1/4 - 1 in			
575'					NO CORE				
580'	AX								
585'		mostly fragments, sticks 2-3 ins				joint at 60° calcite coated			
590'					NO CORE	joint at 40°			
595'						joint at 10° incipient joint at 80°			
600'									

DOLOMITE (Dolomitic limestone), pale grey, calcite veined, closely jointed, joints at 70-80°, 10°, 40°, clean

mostly FR (stained appearance locally)

553'-559' Driller reports "Rods dropped"

mostly FR

TS 0535 (Dolomite or dolomitic limestone)

DOLOMITE (Dolomitic limestone), pale grey, calcite veined, closely jointed - joints spaced 2-4 in

possible cavity

Many incipient fractures.

569'-581' Driller reports "Rods dropped"

Dolomite pebbles 1/2 in

SW - FR

black chert pebble, water worn dolomite pebble

END OF HOLE 600'