FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT
LOCATION:- HEADRACE TUNNEL
POSITION PLOTTED ON DRAWING No.:
DATES: (a) DRILLED: MAY '57 (b) WATER TABLE:
METHOD USED: D.D. DIAMETER:
SITE REMARKS:

POSITION — CO-ORDINATES: E: N: HOLE No. 5083
ON LINE No 1 12800 TO 13200 BEARING: 0°0' AT CH:
FROM STN. 12800 BEARING 206°37' DIST. 31 FILE No.
LEVEL — SURFACE: FORMATION: WATER TABLE:
4340 Dolerite
INCL. — HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING: SHEET 1 OF 14 SHEETS
VERT/~~HOR/INC~~

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
4340	0			Δ Δ Δ			Med. grain dolerite boulders
	5	x x x x					
					60°		60° yellow clay Dolerite med/coarse weathered
4330	10	x		m-c			many joints to 11' open with Ca & clay
		x x					
	15	x x					All core jointed, upto 18" pieces, all joints weathered.
					60/		
4320	20	v		Ca			20'4" Ca nodule in sound dolerite - not in joint.
					45° 60°		rough Ca filled joint
	25				Ca		
							Ca + yellow clay
4310	30	x			60/		Clay
							Core broken by drilling to 39'
	35						fresh med. grey dol. Ca + Zeolite in joints
		v					
4300	40						
					60°		Open Ca
	45						
		x					
4290	50				60/		thin joint with Xline Ca + Zeolite
					45° 70°		weathered ∨ joint others thin Ca + clay.
	55	v		m-c	∨ 85°		
4280	60						m-c dolerite unjointed to 65' - brownish colour.
	65	v			60/		weathered clay + Ca
4270	70						
					∧		thin tight Ca
	75	x			70/		thin slightly weathered. fresh med. dol. weathered near joint.
		x			/		near vert. fresh
4260	80				60/		thin tight Ca
	85	x			60°		clean
4250	90						
					60/		open with weathered Xline Ca.
	95	x			/		altered dol. weathered ½" joint Ca.
					30° / 60/		close jointing at 30° + 60° Ca, Clay + Zeolite.
4240	100	x					

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: DD DIAMETER:

SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No. 5083
	ON LINE:	BEARING:	AT CH:	
	FROM STN.:	BEARING:	DIST:	FILE No.
LEVEL	SURFACE:	FORMATION:	WATER TABLE:	
				SHEET 2 OF 14 SHEETS
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	
	VERT/~~HOR/INC~~:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
4240	100'				30°		open Ca
					60°		rough, weathered Ca + clay
	105'				60°		tight Ca. brown m-c dolerite
		x			Ca		
4230	110'				70° 75° 60°		broken by joints - some open with weathered clay + Ca + Fe
					60°		
	115'			m-c			
		x					
4220	120'						
	125'						
		x					127'6" fresh blue-grey dol.
4210	130'						
	135'						
		x					
					60°		thin Ca
4200	140'				60°		$\frac{1}{8}$" tight Ca
				m-c			med-c dolerite
	145'	x					
					60°		altered dol. $\frac{1}{4}$" Ca joint open.
4190	150'						
					60°		weathered Ca + $\frac{1}{4}$" Montmorillonite
		x					
	155'				70°		$\frac{1}{8}$" tight Ca
					60°		thin Ca
4180	160'						
		x					
	165'						
4170	170'				45°		weathered Fe open
		x					
				m	45°		open, coarse Xline Ca
	175'						med. brown dol.
4160	180'						
	185'						broken core with altered dol near open joint with
		x			80°		Fe, Ca, Clay + Zeolite to 189'
4150	190'	x					
	195'						
					80°		variable open joint - up to $\frac{1}{4}$" wide.
4140	200'	x			111°		System of open joints - Xline Ca - altered dolerite.

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT
LOCATION:- HEADRACE TUNNEL
POSITION PLOTTED ON DRAWING No.:
DATES: (a) DRILLED: MAY '57 (b) WATER TABLE:
METHOD USED: D.D. DIAMETER:
SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No. 5083
	ON LINE:	BEARING:	AT CH:	
	FROM STN.:	BEARING:	DIST.:	FILE No.
LEVEL	SURFACE:	FORMATION:	WATER TABLE:	
				SHEET 3 OF 14 SHEETS
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	
	VERT/~~HOR/INC~~			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
4140	200'						system as above
					45°		clean
	205'						m-c fresh brownish dolerite
					70°		thin tight Ca.
					"		"
4130	210'						black clay + Ca ½" alteration Sp.
					60°		" "
					70°		
	215'				60°		thin Ca + Clay
				m-c			clean Ca
					30°		
4120	220'				45°		
					70°		clean Ca m-c dolerite
	225'				45°		
					70°		open Ca + clay
4110	230'						
							brown med-c dol.
				m-c			
	235'						tight Ca
					60°		
					70°		
4100	240'				60°		black clay.
					60°		clay + Ca
	245'						weathered joint breaks core.
4090	250'						
					70°		Ca + clay
	255'						
					45°		Ca + clay with red spots - weathered on 45°
4080	260'				60°		
	265'						
					60°		open, weathered Ca + clay.
4070	270'						
				m-c			
	275'			f			6" fine dolerite under coarse
				f			1' fine dolerite
4060	280'						
					60°		weathered Fe
					60°		weathered open fine Ca
	285'						
							¼" green-grey Clay + Ca, open, altered dol. weathered Fe.
					45°		" "
4050	290'						core broken to 292'
					45°		
	295'						weathered Ca, Clay, Fe-stained to 297'
					45°		
					30°		
4040	300'						

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT
LOCATION:- HEADRACE TUNNEL
POSITION PLOTTED ON DRAWING No.:
DATES: (a) DRILLED: MAY '57 (b) WATER TABLE:
METHOD USED: D.D. DIAMETER:
SITE REMARKS:

POSITION — CO-ORDINATES: E: N: | ON LINE: BEARING: AT CH: | FROM STN.: BEARING: DIST:
LEVEL — SURFACE: FORMATION: WATER TABLE: | 4340
INCL. — HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING: | VERT/~~HORIZ~~:

HOLE No. 5083
FILE No
SHEET 4 OF 14 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
4040	300'				45°		Ca
	305'				45°		thin Ca
4030	310'			m			open finely Xline Ca
		x					
	315'				60°		tight Ca — med. dolerite
4020	320'			m			
					60°		open Ca
	325'	x					deeply weathered Fe, Ca, Clay
4010	330'						
		x x			45°		½" Ca Clay — From 326' altered brown jointed dolerite
					45°/60°		Ca, Clay
	335'						open Ca & Clay — open joints breaks core into 1" pieces to 384'3"
4000	340'						
		x					
	345'			m-c			
3990	350'						m-c dolerite
	355'	x					
3980	360'	x			60°		1" jointsurf. zoned Ca, green Clay, Fe.
							some alteration in dolerite near jointing
	365'						
3970	370'						
		x		m-c			
	375'						
3960	380'						
	385'	x					384' Fine grained blue-grey dolerite
				f			Ca, Clay but less breakage than above
3950	390'				45°		½" Ca, clay
					45°		
	395'				20° 60°		Ca clay Fe
3940	400'	x					½" clay, Ca, open - brown colour

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: D.D. DIAMETER:

SITE REMARKS:

POSITION			
CO-ORDINATES:	E	N:	HOLE No. 5083
ON LINE:	BEARING:	AT CH:	
FROM STN.:	BEARING	DIST.	FILE No.
LEVEL: SURFACE:	FORMATION:	WATER TABLE:	
4340			
INCL.: HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	SHEET 5 OF 14 SHEETS
VERT/~~HOR/INC~~:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3940	400'						
							sound med. dolerite
	405'				30°/45°		weathered Fe, Ca, clay
		x			60/		Ca ½" clay - breaks core
3930	410'				70/		409' chlorite 410' ½" Ca, clay variable dip
					45/		thin Ca, clay
					60/		" " "
	415'				60/		open Ca, clay
							" "
3920	420'						
					70/		Xline Ca, clay, brown
	425'				45/		
		x					
					30/		Clay, Ca+Fe
3910	430'						
		x			30/		"
	435'						
					60/		tight Ca
3900	440'	x					
					45/ 60/		Fe ½" Fe, Ca, Clay
	445'						
					Ca x Ca 60/		
3890	450'						
		x					
	455'						
					x Cu Ca 60/		
3880	460'						
	465'				30/		clean
3870	470'						
		x					470' Specimen on colour change + finer
	475'						
					60, 70°/ 45, 45°/		open weathered Ca, clay
3860	480'				60°/		Ca, blue clay
							"
					70°/		
	485'	x			70/		altered dolerite, fine Xline Ca, clay fine-med. dol.
					10°/ 45°/		weathered Ca, Fe, yellow
		x					
3850	490'	x			60/		weathered Ca, clay
					60/		Ca, Clay
					70/		
	495'				60/		" "
				f-m	30/		Ca
					30/		
3840	500'	x			60°/		Ca weathered

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT
LOCATION:- HEADRACE TUNNEL
POSITION PLOTTED ON DRAWING No.:
DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:
METHOD USED: D.D DIAMETER:
SITE REMARKS:

POSITION — CO-ORDINATES: E: N: | ON LINE: BEARING: AT CH. | FROM STN.: BEARING: DIST.:
LEVEL — SURFACE: FORMATION: WATER TABLE: | 4340
INCL. — HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING: | VERT ~~HOR/INC~~

HOLE No. 5083
FILE No.
SHEET 6 OF 14 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3840	500'						
	505'						fine - med. sound dolerite
		x			60°/ 60°/		weathered Ca
3830	510'						
	515'				60°/		clean Ca + clay
							"
3820	520'	x			60°/		
	525'			f-m			
3810	530'				v/		rough, clean
	535'						
3800	540'	v					
					45°/ 46°/		Fe weathered Ca
	545'						
3790	550'						vertical joint breaks core to 556'
		v			60°/		Ca weathered Fe.
	555'	x					From 552' med. brownes dolerite
3780	560'						
					70°/		½" open Ca + yellow clay
	565'			m			
					Ca/		
3770	570'						
	575'	v					
					80°/		tight Ca
3760	580'						
					70°/		" "
	585'						
					70°/		½" open Xline Ca, Clay, Zeolite
3750	590'				60°/ 60°/		Ca, Clay
							" "
	595'	x			60°///		clean weathered Fe Ca
3740	600'				70°/		Ca, Clean

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: D.D DIAMETER:

SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No. 5083
	ON LINE:	BEARING:	AT CH.	
	FROM STN.:	BEARING:	DIST.	FILE No.
LEVEL	SURFACE:	FORMATION:	WATER TABLE:	
	4340			
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	SHEET 7 OF 14 SHEETS
	VERT/~~HOR/INC~~:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3740	600'				70°/		Ca, clay, Fe
					30°/		clean
							Ca
	605'				70°/		f-m sound dolerite
					45°/		open weathered finely Xine Ca, clay, Fe
3730	610'						
	615'				70°/		Ca Fe
				f-m	45°//		weathered Ca+clay - dolerite red+yellow near joint.
					60°/		
3720	620'				60°		Ca
	625'						
3710	630'						
	635'						
					30°/		slightly weathered Ca
3700	640'						
	645'						vertical joint with green clay, Ca, Fe, weathered
					45°/		
					60°/		
3690	650'						
					70°/		Ca
	655'						
3680	660'						
				f-m	/		Ca
	665'				80°/		weathered clay + Ca
					60°/		Ca, weathered clay
3670	670'						
							Core broken by drilling to 673'6"
	675'						
					70°/		Ca
3660	680'			m	45°/		Ca w Fe. clay
					/		
							med. dolerite
	685'						
					70°/		Ca
3650	690'						
					60°/		Ca
	695'				45°/		Clay + Ca at 90° cut by 45° with chlorite.
					//		
					70°/		weathered Fe.
3640	700'						

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT
LOCATION:- HEADRACE TUNNEL
POSITION PLOTTED ON DRAWING No.:
DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:
METHOD USED: D.D DIAMETER:
SITE REMARKS:

POSITION: CO-ORDINATES: E: N: | ON LINE: BEARING: AT CH: | FROM STN. BEARING: DIST:
LEVEL: SURFACE: FORMATION: WATER TABLE: | 4340
INCL.: HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING: | VERT/~~HOR/INC~~

HOLE No 5083
FILE No
SHEET 8 OF 14 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3640	700'				60°		Ca, clay
					30°		" "
	705'				60/		
					60/		Ca
					v/		Ca
3630	710'						chlorite
		v			70/60°		713' fine x inc Ca, dolerite, yellow clay + Fe
	715'				Ca v/70°		weathered Chlorite Ca, clay
					Ca v/70°		vertical Ca-filled joint with altered zones
3620	720'						
	725'				v/		Ca, clay, Fe
					60°		" " "
					60°		clean
3610	730'						
		v			60°		Chlorite + Ca
	735'						
					60°		weathered Fe
					45°/		" + Ca.
3600	740'				v/		vertical joint with Ca, chlorite
							From 742' core broken by set of steep joints into long slivers of fine-med.
	745'						
					70°		
3590	750'				70°		weathered chlorite sound dolerite - joints chlorite filled.
		x			70°		+ Ca - dendrites. becomes finer downwards.
	755'				45°		
							SAMPLED - N. ORTEL, TAS. U. DEC. '59
3580	760'	v					
	765'						
3570	770'						very fine dolerite
		x					771' - 772 Contact
	775'						Mudstone, fine light grey - baked
		x					(775 sampled P. Schmidt. ANU.)
3560	780'	x					Siltstone, light grey massive
							Sst, light grey feld. med. massive
	785'	x					to 804
3550	790'	x					
	795'						
3540	800'						

FORM No H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: D. D. DIAMETER:

SITE REMARKS:

POSITION			
	CO-ORDINATES:	E:	N:
	ON LINE:	BEARING:	AT CH:
	FROM STN.	BEARING:	DIST:
LEVEL	SURFACE	FORMATION	WATER TABLE:
	4340		
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:
	VERT/~~HOR/INC~~		

HOLE No. 5083

FILE No

SHEET 9 OF 14 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3540	800'						
							Sst as above.
	805'						Sst banded light grey fine with siltstone bands and dark colour to 814'
3530	810'						
	815'	v					
							Shale, dark grey – black with thin whitish sandy bands and slumps etc.
3520	820'	v					
	825'						
3510	830'	v					
							Claystone, black fossil. with slickensides then greyish with fossils at 832. with fine bands, slumps, etc. sandier at 835
	835'						
3500	840'						
							similar with many structures, fine and coarse bands predominantly dark grey with light grey bands
	845'						
3490	850'	x					
							852'9" Coal 12"+
	855'						
							light grey with dark bands - generally coal
3480	860'						
	865'						
		x					
3470	870'						Mudstone dark grey 12"
							From 869 predom. black with light bands
	875'						
3460	880'						
							2" Coal seam, gleaming 1" light sandy band 2" Coal
	885'	x					
3450	890'						Black colour due to coal particles.
							Core becomes lighter by increase of light sandy bands to 900 then black specks of coaly material go out to give greenish grey dark med. feld. Sst to 925'10"
	895'						
3440	900'						

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY '57 (b) WATER TABLE:

METHOD USED: D.D DIAMETER:

SITE REMARKS:

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

LEVEL			
	SURFACE	FORMATION:	WATER TABLE:
	4340		

INCL.			
	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:
	VERT/HOR/INC:		

HOLE No. 5083

FILE No.

SHEET 10 OF 14 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3440	900'						Sst med.feld. greyish green
	905'	x					→ SAMPLE
3430	910'						
	915'						
3420	920'						
	925'	x					
		x					Sst med/coarse feld.
3410	930'						
	935'				70 Co/		Mudstone with fossils & sandy bands Sst med with coal blebs at 934'6"
3400	940'						
	945'						U of T. GP
		x					
3390	950'						
	955'						Medium - fine Sst.
3380	960'						
	965'						
		x					12" with mud pellets
3370	970'						
	975'						12" with fine silt bands in med Sst.
3360	980'						
	985'	x					
3350	990'						Medium Sst with bands
	995'						
3340	1000'						Black shale to 1000'

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: D.D DIAMETER:

SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No. 5083
	ON LINE:	BEARING:	AT CH:	
	FROM STN.:	BEARING:	DIST:	FILE No.
LEVEL	SURFACE:	FORMATION:	WATER TABLE:	
	4340			SHEET 11 OF 14 SHEETS
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:	
	VERT/HOR/INC:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3340	1000'	x					SHALE black
	1005'						SILTSTONE grey with mica then SILTSTONE + SANDSTONE proportionally
3330	1010'						Vitreous Coal
	1015'						MUDSTONE dk grey
							CHAYSTONE decomposed slickensided
							SANDSTONE then pencil marked then grey fine-med
3320	1020'	/					Feld. sandstone
	1025'						2" clean SANDSTONE then dk grey SILTSTONE
3310	1030'						Slickensided friable.
							SANDSTONE 3"
	1035'						
3300	1040'	x					SANDSTONE fine feld. irregular banding
	1045'						
3290	1050'						
	1055'						SILTSTONE grey slickensided with mudstone. greenish towards 1056
3280	1060'	x					SANDSTONE fine feld. odd marks clay band at 1064
	1065'						
							Black shale with coal
3270	1070'						
	1075'						Fine light grey Sst. contorted with black bands
							SILTSTONE DK grey.
3260	1080'	x					
	1085'						Sst. fine irregular banding
							Siltstone with fine sst bands dark grey pencil marked.
3250	1090'						
		/					Banded dark grey fossil Sst & shale. to 1100
	1095'						
					45/Co		
3240	1100'	x					

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: DD DIAMETER:

SITE REMARKS:

POSITION — CO-ORDINATES: E: N: | ON LINE: BEARING: AT CH: | FROM STN.: BEARING: DIST:

LEVEL — SURFACE: 4340 FORMATION: WATER TABLE:

INCL. — HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING: | VERT/HOR/INC.:

HOLE No 5083

FILE No

SHEET 12 OF 14 SHEETS

TUNNEL

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3240	1100'				30/ Ca		SANDSTONE
	1105'						SILTSTONE dk grey unbanded
				mica			SANDSTONE dk grey fine feld then lt.grey med.
3230	1110'				30/		
	1115'			f	Ca C		
				f.f			
3220	1120'	x					
	1125'				30/		Siltstone dark grey (hard)
							Siltstones & claystones black at first, banded
3210	1130'						then black grey - easily broken with
		x					abundant mica but only plant fragments
	1135'						
3200	1140'	x					
	1145'						
3190	1150'						
	1155'	x					→ SAMPLE TO T.E.
					45/		Slickensided joint
3180	1160'						
	1165'						
3170	1170'						1171 light bands
	1175'	x					
3160	1180'						
	1185'						
		x					
3150	1190'	x			Rock Ca/		SANDSTONE fine feld. greenish grey. no joints
	1195'						
3140	1200'						becomes greenish grey siltstone at 1200'

FORM No H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY 57 (b) WATER TABLE:

METHOD USED: D.D. DIAMETER:

SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No 5083
	ON LINE:	BEARING:	AT CH:	
	FROM STN.:	BEARING:	DIST:	FILE No
LEVEL:	SURFACE:	FORMATION:	WATER TABLE:	
	4340			
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:	SHEET 13 OF 14 SHEETS
	VERT/HOR/INC:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3140	1200'						Siltstone, grey green micaceous
	1205'	x					Sst fine feld.
3130	1210'	x					1210 Siltstone - green grey
	1215'						Sst med grey feld plant fragments in lower part
3120	1220'						
		x					Siltstone, fine, green grey - breaks with
	1225'						
		x					Sst with coaly fragments 18"
3110	1230'	x			//		Siltstone band, green grey, fossil fragments
	1235'						Sst, feld, fine/med - brown mica
3100	1240'						
	1245'	x					Siltstone & claystone, dark green grey
3090	1250'	x					
	1255'				45/		Sst med. feld. with 12" band siltstone at 1255
3080	1260'				45		Siltstone, dark grey with fossils to 1258 then
		x					greener and no fossils
	1265'	x			/		becomes coarser then med feld Sst.
3070	1270'						
	1275'						Siltstone green grey 6"
							Sst coarse feld.
3060	1280'						Claystone green
					ca 80/		
	1285'						Sst green grey feld. x Specimen
					45/		
3050	1290'				45/		
							Sst. med. green grey feld.
	1295'						
							Siltstone, green grey with plant fragments
3040	1300'						to end of hole at 1303

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- GREAT LAKE POWER DEVELOPMENT

LOCATION:- HEADRACE TUNNEL

POSITION PLOTTED ON DRAWING No.:

DATES: (a) DRILLED: MAY '57 (b) WATER TABLE:

METHOD USED: D.D. DIAMETER:

SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No 5083
	ON LINE:	BEARING:	AT CH:	
	FROM STN.:	BEARING:	DIST:	FILE No
LEVEL:	SURFACE:	FORMATION:	WATER TABLE:	
	4340			SHEET 14 OF 14 SHEETS
INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	
	VERT/HOR/INC:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
3040	1300'						Green-grey siltstone with plant fragments.
		x					
	1305'						HOLE COMPLETED 1303'
3030	10'						
	15'						
	20'						
	25'						
	30'						
	35'						
	40'						
	45'						
	50'						
	55'						
	60'						
	65'						
	70'						
	75'						
	80'						
	85'						
	90'						
	95'						
	00'						