

DRILLING RECORD

SCHEME: <i>GREAT LAKE NORTH</i>	POSITION	CO-ORDINATES: E	N:	HOLE No 5033
LOCATION: <i>PORTAL LAYOUT 'B'</i>		ON LINE:	BEARING:	AT CH:
POSITION PLOTTED ON DRAWING No.:	LEVEL	FROM STN.:	BEARING:	FILE No.
DATES: (a) DRILLED: (b) WATER TABLE:		SURFACE:	FORMATION:	WATER TABLE:
METHOD USED: <i>D.D.</i> DIAMETER:	INCL.	3495.4		SHEET 1 OF SHEETS
SITE REMARKS: <i>SCREE FIELD 3500' contour</i>		HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:
		VERT/HOR/INC:		

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	0'						
3490	5'	x		△			
	10'	x		△			
3480	15'	x		△			
	20'	x		+ + +			<i>BOULDER 18'-23'</i>
3470	25'	x		△			
	30'	x		CLAY			
	35'	x		CLAY			
3460	35'	x		+ +			<i>BOULDER 34'6"-39'</i>
	40'	x		+ +			
	45'	x		+ +			<i>BOULDER 41'-59'</i>
3450	45'	x		+ +			
	50'	x		+ +			
3440	55'	x		+ +			
	60'	x		△			
	65'	x		CLAY			<i>BOULDER 63'6"-69'</i>
3420	65'	x		+ +			
	70'	x		△			
	75'	x		△			<i>BOULDER 74'-79'</i>
3420	75'	x		+ +			
	80'	x		△			
	85'	x		△			<i>BOULDER 84'-105'</i>
3410	85'	x		+ +			
	90'	x		+ +			
	95'	x		+ +			
3400	95'	x		+ +			
	100'	x		+ +			

DRILLING RECORD

SCHEME:- <i>GREAT LAKE NORTH</i>	POSITION	CO-ORDINATES	E	N	HOLE No 5033
LOCATION:- <i>PORTAL AREA: LAYOUT 'B'</i>		ON LINE	BEARING	AT CH.	
POSITION PLOTTED ON DRAWING No.:		FROM STN.	BEARING	DIST.	
DATES: (a) DRILLED:	LEVEL	SURFACE	FORMATION	WATER TABLE	FILE No.
METHOD USED: <i>D.D.</i> DIAMETER:					
SITE REMARKS:	INCL.	HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	SHEET 3 OF
		VERT/HOR/INC			SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
				+ +			
3290	205			+ +			
				+ +			
	210			+ +			
		x		+ +			
3280	215			△ △ △			<i>213-220 FULL CORE REMOVED BUT BADLY BROKEN.</i>
				△ △ △			
	220	x		△ △ △			
				+ + +			
3270	225			△ △ △			
		x		△ △ △			
	230			+ +			
		x		+ +			
3260	235			△ △ △			<i>234-258" FULL CORE BUT BROKEN.</i>
		x		△ △ △			
	240			△ △ △			
				△ △ △			
3250	245			△ △ △			
				△ △ △			
	250			△ △ △			
				△ △ △			
3240	255			△ △ △			
		x		△ △ △			
	260			△ △ △			
		x		△ △ △			
3230	265			△ △ △			
		x		△ △ △			
	270			△ △ △			
		x		△ △ △			
3220	275			△ △ △			
		x		△ △ △			
	280			△ △ △			
		x		△ △ △			
3210	285			△ △ △			<i>285-309" : CLAY</i>
				△ △ △			
	290			△ △ △			
				△ △ △			
3200	295			△ △ △			
				△ △ △			
	300			△ △ △			

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LOCATION: <i>PORTAL AREA : LAYOUT 'B'</i>		ON LINE	BEARING	AT CH.	5033
POSITION PLOTTED ON DRAWING No.:	LEVEL	FROM STN.	BEARING	DIST.	FILE No.
DATES: (a) DRILLED: (b) WATER TABLE		SURFACE	FORMATION	WATER TABLE:	
METHOD USED: <i>D.D.</i> DIAMETER:	INCL	HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	SHEET
SITE REMARKS:		VERT/HOR/INC			4 OF SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	300'						
							<i>283-319 : No RECOVERY - CLAY.</i>
3190	305'						
	310'						
3180	315'	x					
	320'						<i>319-328 : DOLERITE IN CLAY.</i>
3170	325'						<i>HEAVY SEDIMENT COMING INTO HOLE FROM THIS ZONE.</i>
	330'	x					
3160	335'	x					<i>328-342 : FULL CORE OF BROKEN DOLERITE.</i>
	340'	x					<i>(TWO LOTS OF FULL CORE FOR THIS SECTION DUE TO RUNNING OFF IN CLAY SECTION)</i>
3150	345'	x					<i>342-347 : BOULDER</i>
	350'	x					<i>347-349 : FULL BROKEN CORE</i>
3140	355'	x					<i>349-354 : BOULDER</i>
	360'	x					<i>354-356 : FULL BROKEN CORE</i>
3130	365'	x					<i>356-361 : DOLERITE IN CLAY.</i>
	370'	x					<i>359'6" "BARREL JAMMING."</i>
3120	375'	x					<i>361-432 : FULL RECOVERY</i>
	380'	x					<i>361-364' SHATTERED IN DRILLING.</i>
3110	385'	x					
	390'	x					
3100	395'	x					
	400'	x					<i>397-399 : CLOSE VERTICAL JOINTING GIVES SLIVERS OF CORE.</i>

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LOCATION: PORTAL AREA - LAYOUT 'B'			ON LINE.	BEARING:		AT CH.
POSITION PLOTTED ON DRAWING No.			FROM STN.	BEARING.		DIST.
DATES: (a) DRILLED: (b) WATER TABLE.		LEVEL:	SURFACE:	FORMATION.	WATER TABLE.	
METHOD USED: D.D. DIAMETER:			3495.4	DOLERITE SCRUB		
SITE REMARKS:		INCL.	HOLE DRILLED:	DEPRESSION ANG.	INCL. BEARING:	
			VERT/HORIZING:	30°	—	
					SHEET 5. OF SHEETS	

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	400'			+ +	85° 20°		361-432: FULL CORE JOINTED DOLERITE.
3090	405'			+ +	20° 20°		407-409: DRILL SHATTERED CORE.
	410'			+ +	60° 20°		
3080	415'			+ +	30° 10°		417-419: CLOSE VERTICAL JOINTING
	420'			+ +	30°		
3070	425'			+ +	30°		
	430'			+ +	10°		429-430: CLOSE VERTICAL JOINTING
3060	435'		Δ Δ	Δ Δ			432-454: DOLERITE FRAGMENTS IN CLAY - ONLY RECOVERY IS OVERDRILLED PIECES TO 2" LENGTH BUT MOSTLY ABOUT 1". 432-441: 15" OF 2" LENGTHS 441-451: 5" " 1" " 451-454: 6" " 1" "
	440'			Δ Δ			
3050	445'			Δ Δ			
	450'			Δ Δ			
3040	455'			+ +	20° 20°		454-458: FULL CORE JOINTED DOLERITE
	460'			Δ Δ	v.		458-464: 6" OF 1" LENGTHS (SOME OVERDRILLING) OF DOLERITE.
3030	465'			+ +	v. 10° 30°		464-479: FULL CORE JOINTED DOLERITE
	470'			+ +	60° 60° 60°		
3020	475'			+ +	20°		479-485: 18" OF DOLERITE IN 1" LENGTHS (ONE 3" LENGTH) COMPLEX, NEAR-VERTICAL JOINT PATTERN WITH IRON STAINED JOINTS GIVE FRAGMENTARY CORE.
	480'			Δ Δ			
3010	485'			+ +	15° 60°		485-497: FULL CORE JOINTED DOLERITE
	490'			+ +	85° v. H		
3000	495'			+ +	60° v. H		497-499: FRAGMENTS OF DOLERITE
	500'			+ +	5		499-504: FULL CORE OF JOINTED DOLERITE.

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POSITION PLOTTED ON DRAWING No.:		FROM STN.:	BEARING:		DIST.
DATES: (a) DRILLED:	LEVEL:	SURFACE	FORMATION:	WATER TABLE:	
(b) WATER TABLE:		3495.4	SCREE, TALS CLUAN		
METHOD USED: DD	INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:	
DIAMETER:		VERT/HOR/INC:	90°		
SITE REMARKS: SCREE SLOPE.				SHEET 6 OF SHEETS	

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	500			+	80° 60°		
2990	505		Δ Δ	Δ Δ			504-510: DOLERITE FRAGMENTS IN CLAY. VERTICAL AND HORIZONTAL JOINTING GIVES SLIVERS OF CORE.
	510		Δ Δ	Δ Δ			504-506': 12" OF CORE IN 3" LENGTHS 506-510: 18" " " " 1" "
2980	515		+	+	H 20° H 80° 10°		510-518: FULL CORE OF JOINTED DOLERITE.
	520		Δ Δ	Δ Δ			518-527: DOLERITE FRAGMENTS IN CLAY.
2970	525		Δ Δ	Δ Δ			518-520: 12" OF CORE IN 1" LENGTHS (VERT. JOINTS) 520-524: 12" " " " 1" " 524-527: 6" " " " 1" "
	530		Δ Δ	Δ Δ			527-532: 36" OF DOLERITE IN 3" LENGTHS JOINTS AT 30° AND VERTICAL PRONOUNCED.
2960	535		+	+			532-535: FULL CORE OF JOINTED DOLERITE (VE 30° JS) 535-538: 18" OF DOLERITE IN 2" LENGTHS
	540		+	+	V, H H H V 10° H		538-561: FULL CORE OF JOINTED DOLERITE.
2950	545		+	+	46° H, 10° 20° V 10° H		
	550		+	+	46° 20° 10° H		
2940	555		+	+	20° 10° 80°		
	60		+	+	V 30°		560-561: PRONOUNCED VERTICAL JOINTING.
2930	65		+	+			561-573: MARGINAL DOLERITE - FINE, GLASSY BLACK WITH PRONOUNCED VERTICAL JOINTS (5'7" OF CORE IN 2" LENGTHS) (570 sampled P. Schmidt A.N.V.)
	70		+	+			
2920	75		.	.			573-578: "CONTACT" SANDSTONE - DOLERITISED MEDIUM GRAIN SANDSTONE WITH CLAY PELLETS
	80		-	-			578-585: "CONTACT SHALE" GREEN-BROWN, FEATURELESS, SLICKENED IN PART.
2910	85		-	-			585-596: LIGHT BLUE-GREY SILTSTONE - SHALE IN PART.
	90		-	-			
2900	95		.	.			596-601: MEDIUM COARSE FELSPATHIC SANDSTONE.
	100		.	.			

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LOCATION: PORTAL AREA - LAYOUT 'B'			ON LINE:	BEARING:	
POSITION PLOTTED ON DRAWING No.:		LEVEL	FROM STN.:	BEARING:	DIST:
DATES: (a) DRILLED: (b) WATER TABLE:			SURFACE	FORMATION:	WATER TABLE:
METHOD USED: D.D. DIAMETER:		INCL.	3495.4	SCREE, TALLIS CLIAN.	
SITE REMARKS: SCREE SLOPE			HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:
		VERT/HOR/INC:	90°		

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
	0						
2890	5'						601'-605'6": MID GREY BLUE SILTSTONE & SHALE
							605'6"-607': WHITE QUARTZ SANDSTONE WITH GREY-GREEN SILT BANDS TO 2"
	610'						607'-610'6": GREEN-BROWN TROUGH SHALE
							610'6"-612'2": BLUE AND WHITE MOTTLED SILTSTONE
2880	615'						612'2"-613'6": WHITE QUARTZ SANDSTONE
							613'6"-626': BLUE GREY SHALE WITH FINE SILTSTONE BANDS (cf 586'-596')
	620'						
2870	625'						626'-626'3": COARSER BAND - FELSPATHIC SANDSTONE
							626'3"-649'6": BLUE GREY SHALE WITH COARSE FELSPATHIC SANDSTONE BANDS
	630'						
2860	635'						
	640'						
2850	645'						
	650'						649'6"-703': MEDIUM FELSPATHIC SANDSTONE (40'SS") 650' Sampled J. Collinson OHIO STATE 3/6/80 649'9"-650': CHOCOLATE SPOTTED SANDSTONE
2840	655'						
	660'						
2830	665'						
	670'						→ Sample
							672' Sampled J. Collinson OHIO STATE 3/6/80
2820	675'						
							677' Sampled J. Collinson OHIO STATE 3/6/80
	680'						681'7"-682'4": CHOCOLATE SPOTTED SANDSTONE
2810	685'						
	690'						
2800	695'						
	700'						

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POSITION PLOTTED ON DRAWING No.:			FROM STN.	BEARING	DIST.
DATES: (a) DRILLED: .		LEVEL:	SURFACE	FORMATION	WATER TABLE:
(b) WATER TABLE:			3495.4	SCREE, TALUS CLUAN.	
METHOD USED: DD		INCL.	HOLE DRILLED	DEPRESSION ANG.	INCL. BEARING:
DIAMETER:			VERT/HOR/INC.	90°	
SITE REMARKS:					SHEET 8 OF 11 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
			0.2 0.4 0.0 0.0 0.1	•••••			
2790	705						703-706' MEDIUM GRAY MICA SS WITH IRREGULAR LT GRAY FELT SS BLENDS AND PENCILS
	710			-P-P-			710'-711': PURPLE MOTTLED SHALE
2780	715			•••••			715'6"-717'6": MEDIUM FINE PENCILLED SANDSTONE.
	720						717'6"-750': FINELY BEDDED SHALES AND 719' Sampled J. Collinson OHIO STATE 3/6/80 SANDSTONES
2770	725						
	730						
2760	735						
	740			-P- -P- -P-			739' Sampled J. Collinson OHIO STATE 3/6/80 738-741': PURPLE MOTTLED SHALE
2750	745						
	750			•••••			750'-757' : "SPARKLING" ORANGE QUARTZ SANDSTONE
2740	755			•••••			755' Sampled J. Collinson OHIO STATE 3/6/80
	760						757-776 : FINELY BEDDED SHALES AND SANDSTONES
2730	765						
	770						
2720	775			•••••			776' 803 : PENCILLED SANDSTONE.
	780						
2710	785						
	790						
2700	795						
	800						

DRILLING RECORD

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LOCATION: - PORTAL AREA LAYOUT B		ON LINE	BEARING	AT CH	
POSITION PLOTTED ON DRAWING No.:		FROM STN.	BEARING	DIST.	
DATES: (a) DRILLED:	LEVEL	SURFACE	FORMATION	WATER TABLE	FILE No.
(b) WATER TABLE:		3455			
METHOD USED:	INCL	HOLE DRILLED	DEPRESSION ANG.	INCL BEARING:	SHEET 9 OF 11 SHEETS
DIAMETER:		VERT/HOR/INC.			
SITE REMARKS:					

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	800						
2690	805						803' - 813' SHALES - DARK GREY
	810						
2680	815						814' Sampled J. Collinson OHIO STATE 3/6/80 813' - 1095 - MEDIUM GRAIN QUARTZ - FELSPAR SANDSTONE WITH OCCASIONAL PEBBLE CONGLOMERATES - ROSS FORMATION.
	820						
2670	825						
	830						
2660	835						
	840						
2650	845						
	850						
2640	855						
	860						
2630	865						867' Sampled J. Collinson OHIO STATE 3/6/80
	870						
2620	875						
	880						
2610	885						
	890						
2600	895						
	900						

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LOCATION: <i>PORTAL AREA - LAYOUT B</i>			ON LINE	BEARING	
POSITION PLOTTED ON DRAWING No.:			FROM STN.	BEARING	DIST
DATES: (a) DRILLED:		LEVEL	SURFACE	FORMATION	WATER TABLE:
(b) WATER TABLE:					
METHOD USED:		INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:
DIAMETER:			VERT/HOR/INC:		
SITE REMARKS:					SHEET 10 OF 11 SHEETS

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
2590	905						<i>ROSS SANDSTONE - MEDIUM GRAIN FRESH</i>
							<i>905' Sampled J. Collinson OHIO STATE 3/6/80</i>
2580	915						
2570	925						
2560	935						
2550	945						
							<i>950' Sampled J. Collinson OHIO STATE 3/6/80</i>
2540	955						
2530	965						
2520	975						
2510	985						
							<i>990' Sampled J. Collinson OHIO STATE 3/6/80</i>
2500	995						
	1000						

DRILLING RECORD

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LOCATION: - PORTAL AREA - LAYOUT B		ON LINE	BEARING	AT CH.	
POSITION PLOTTED ON DRAWING No.		FROM STN.	BEARING	DIST	
DATES: (a) DRILLED:	LEVEL	SURFACE	FORMATION	WATER TABLE	FILE No.
METHOD USED:		DIAMETER:			
SITE REMARKS:	INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:	SHEET // OF // SHEETS
		VERT/HOR/INC:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	1005						
2490	1005						
	1010						
2480	1015						
	1020						
2470	1025						
	1030						
2460	1035						→ sample
	1040						
2450	1045						1042 - 1042'6" PELLET CONGLOMERATE
	1050						1048' Sampled J. Collinson OHIO STATE 3/6/80
2440	1055						
	1060						
2430	1065						
	1070						
2420	1075						1071' - 1071'6" PELLET CONGLOMERATE
	1080						
2410	1085						
	90						
2400	95						1095' HOLE COMPLETE
	90						<i>J. B. McKellar?</i>