

# DRILLING RECORD

SCHEME - GREAT LAKE POWER DEVELOPMENT		POSITION	CO-ORDINATES	E 483. 2400	N. 851. 1461	HOLE No. <b>5117</b>
LOCATION - Tailrace Tunnel			ON LINE	BEARING	AT CH.	
POSITION PLOTTED ON DRAWING No.		LEVEL	FROM STN	BEARING	DIST	FILE No.
DATES: (a) DRILLED			SURFACE	FORMATION	WATER TABLE	
METHOD USED: D. D.		INCL	10625	Meander Creekbed Wood side		SHEET 1 OF 5 SHEETS
DIAMETER			HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	
SITE REMARKS		VERT	HOR			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
1062	0						0 - 62'9" MEANDER MUDSTONE
	5						Rock weathered to clay to 2'6" then soft weathered rock (especially mudstone bands to 14').
	10						Joints weathered with thick iron concentrations to 30'
	15						Pebbly weathered dirty sandstone to 26'3"
	20						18' Chocolate coloured weathered Clay
	25						Bedding planes have iron deposits and softened joints with clay.
	30						Current bedded mudstone dark grey with increasing sandstone current beds downwards to 62'9"
	35						
	40						40' thin worm cast bed 2"
	45						
	50						47' thin worm cast bed 3"
	55						Soft dark grey mudstones with light grey sandstones current beds and stringers, disturbed and slumped beds
	60						
	65						62'9" - 73'6" CREEKTON
	70						Medium worm cast sandstone mottled dark grey - few small 1/2" dia. pebbles.
	75						73'6" - 99'10" WOODSIDE
	80						8" black siltstone then siltstone with light grey quartz sandstone current beds, then light grey (weathered brown) quartz current bedded sandstone usually medium grained but coarser grades at 81' approx. 85' and 89'
	85						dark grey current bedded partings common especially from 89-92, 94'8" - 95'2" and 99'10" - 101'2"
	90						
	95						

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LOCATION: <b>Tailrace Tunnel</b>			ON LINE	BEARING	AT CH.	
POSITION PLOTTED ON DRAWING No.:		LEVEL	FROM STN.	BEARING	DIST.	FILE No.
DATES: (a) DRILLED:                      (b) WATER TABLE			SURFACE	FORMATION	WATER TABLE	
METHOD USED: <b>D.D.</b> DIAMETER:		INCL.	<b>1062</b>	<b>KOPANICA FLATTOP MACRAE</b>		SHEET <b>2</b> OF <b>5</b> SHEETS
SITE REMARKS:			HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	
			VERT/HOR/INC			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
962	10'-0"						<b>U of T. GD</b>
	5'-0"						<b>99'10" - 110' KOPANICA</b>
	10'-0"						* SAMPLE TO U of Louisville
	15'-0"						<i>Light gray medium quartz sandstone with black current beds</i>
	20'-0"						<b>110' - 155'7" FLATTOP</b>
	25'-0"						<i>105'11" - 120'4" commences as dark gray siltstone with white quartz sandstone stringers and grades down into mottled dark gray worm cast sandstone with pebbles up to 1" diam. at bottom</i>
	30'-0"						<i>120'4" - 142'3" medium quartz sandstone with dark gray siltstone current bedding partings and thin beds often mica rich. Finer above 126'6"</i>
	35'-0"						<i>about 1' of coarse sandstone then gradually becomes finer downwards.</i>
	40'-0"						<i>142' black mudstone 3" with current bedding</i>
	45'-0"						<i>light gray medium sandstone with black carbonaceous partings on current bedding</i>
	50'-0"						<i>146'6" - 145' black current bedded siltstone</i>
	55'-0"						<i>145' - 147' current bedded quartz sandstone coarser towards 147'</i>
	60'-0"						<i>147' - 148' current bedded quartz sandstone medium grained pyrite abundant and leaves pits on leaching.</i>
	65'-0"						<i>148'1" - 155'7" medium dark gray sandstone with pebbles and limy matrix especially at 150'8" - 150'9", 152'11"</i>
	70'-0"						<b>155'7" - 269'10" MACRAE</b>
	75'-0"						<i>161'3" limy band 6" Dark gray siltstone with disturbed massive bedding (worm borings?)</i>
	80'-0"						* SAMPLE TO U of Louisville
	85'-0"						<i>170 pyrite nodule</i>
	90'-0"						<i>175' joint system near V Co</i>
	95'-0"						<i>1" diam. pebble</i>
	100'-0"						<i>Bezyeans</i>

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POSITION PLOTTED ON DRAWING No.		LEVEL	FROM STN.	BEARING	DIST.	FILE No.
DATES: (a) DRILLED			SURFACE	FORMATION	WATER TABLE	
METHOD USED: <b>D. D</b>		INCL.	<b>1062</b>	<b>MACRE</b> <b>BILLOP</b> <b>BRUMBY</b>		SHEET 3 OF 5 SHEETS
DIAMETER:			HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	
SITE REMARKS:			VERT/HORIZ			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
262	20'						
	5'						Dark gray mudstone with scattered pebbles and fossils - bryozoans and few brachiopods
	210'				45° Ca 70°		210' 45° & 60° joints
	15'				Ca 45° V V		216' 6" 45° slicken sided joint
	220'				Ca 43°		217' replacement breccia in calcite (cemented fault)
	25'				Ca 60° 45° Ca 80°		225' black mudstone 80° joint
	230'						From 217 downwards core has numerous white specks - some limy some sand grains of various types.
	35'						
	240'						239' 6" - 240' 1" Limestone (concretion?)
	45'						
	250'						Dark mudstone with scattered pebbles and fossils
	55'						253' Stenopora band
	260'						
	65'						
	270'						269' 10" - 281' BILLOP
	75'						269' 10" mudstone becomes sandier and conglomeratic
	280'						271' matrix becomes limy but still conglomeratic becoming finer towards 281' where bryozoans (coarse Stenopora) become predominant - some Eurydesma and Brachiopods but not abundant.
	85'						281 - BRUMBY
	290'						286' 6" - 291' 6" most limy part with patches of pure limestone
	95'						
762	300'						

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METHOD USED: D.D. DIAMETER:		INCL.	1062	BRUMBY QUAMBY		SHEET 4 OF 5 SHEETS
SITE REMARKS:			HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	
			VERT. HOR. INC.			

STANDARD LEVEL 762	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
	30						302 Bryozoons - thiner type and Mudstone increases downwards.
	5						
	310						
	15						
	320						x SAMPLER TO U of Louisville
	25						
	330						BRUMBY - QUAMBY BOUNDARY LOST
	35						Quamby rather sandy especially 356 - 361'
	340						
	45						345'2" pebble 2" diam.
	350						347'8" pebble 1" diam. 348' fossil band - bryozoons
	30						349'3" pebble 1/2" diam 349'10" - 350'2" pebble band 2" d
	55						351'10" - 352'2" pebble 2" diam
	360						354' pebble band with fossils 3" diam schist pebble
	65						355'6" pebble 1" diam.
	370						356 - 357 pebble conglomerate - fossils with Stenopora band at bottom.
	75						fossils and pebbles up to 2" diam continue to 260'10" then siltstone with bryozoons and scattered 1/4" diam. pebbles.
	380						366'10" pebble 1/2" diam
	85						367'3" pebble 1" diam
	390						371'3" pebble 1" diam Core broken between
	95						373'9" pebble 1/2" diam
	400						374'2" pebble 1" diam 373' and 376'11" by
	410						378' pebble 1/2" diam. Drilling
	420						378'6" pebble band 3", 1/2" pebbles.
	430						380'5" pebble 1/2"
	440						381'4" pebble band 3", 2" pebbles
	450						383' pebbles 1/2", 1/4" diam
	460						386' pebble 1" diam. 386'8" pebble 1/2" diam.
	470						389'6" - 390' pebbles 2" diam and fossils
	480						391'0" - 391'5" pebble 2" diam.
	490						392'3" pebble 1/4" diam

