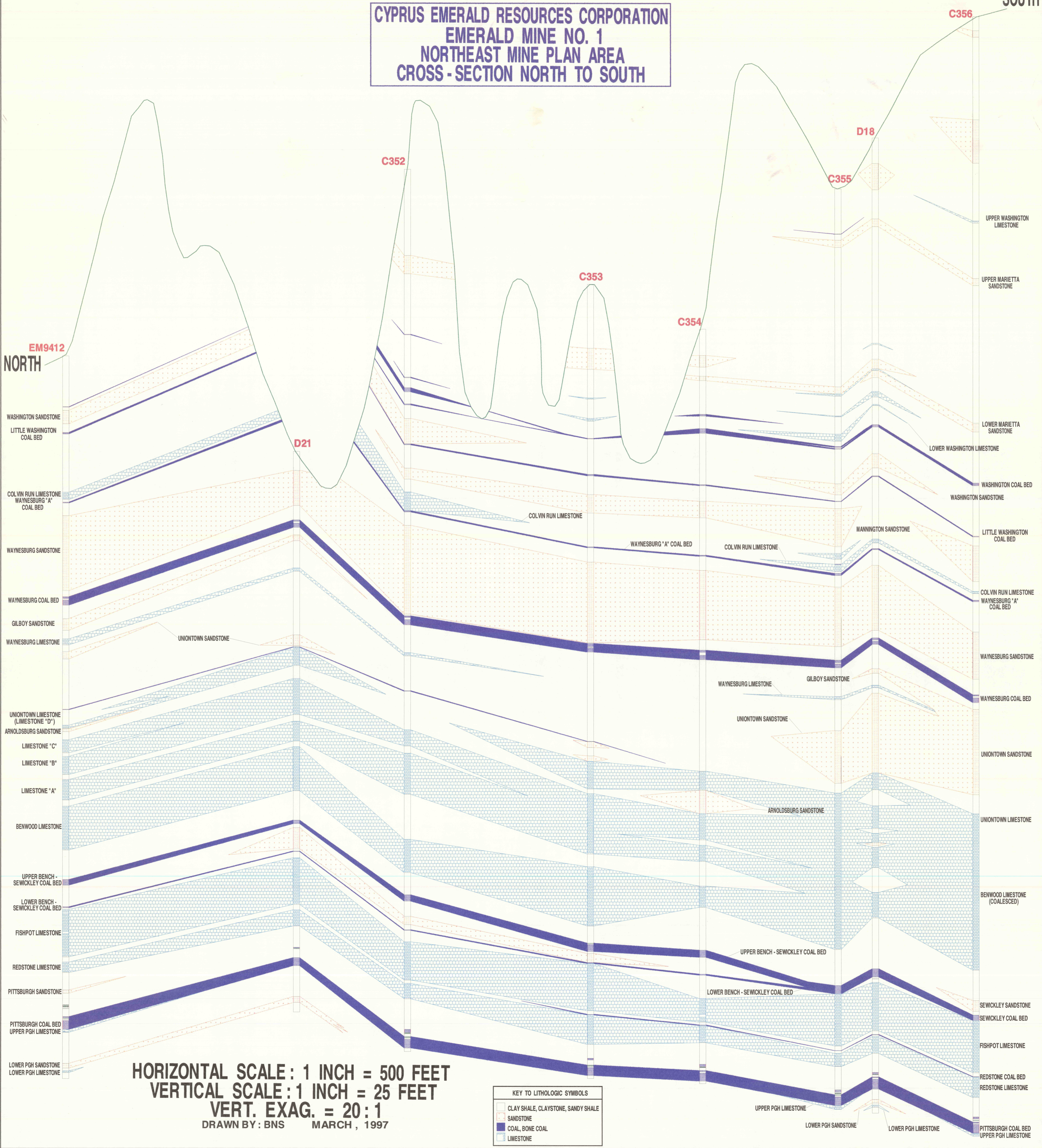


SOUTH

CYPRUS EMERALD RESOURCES CORPORATION  
EMERALD MINE NO. 1  
NORTHEAST MINE PLAN AREA  
CROSS-SECTION NORTH TO SOUTH

NORTH



**HORIZONTAL SCALE : 1 INCH = 500 FEET**  
**VERTICAL SCALE : 1 INCH = 25 FEET**  
**VERT. EXAG. = 20 : 1**  
 DRAWN BY : BNS      MARCH , 1997

KEY TO LITHOLOGIC SYMBOLS	
	CLAY SHALE, CLAYSTONE, SANDY SHALE
	SANDSTONE
	COAL, BONE COAL
	LIMESTONE

UPPER WASHINGTON LIMESTONE

UPPER MARIETTA SANDSTONE

LOWER MARIETTA SANDSTONE

LOWER WASHINGTON LIMESTONE

WASHINGTON COAL BED

WASHINGTON SANDSTONE

LITTLE WASHINGTON COAL BED

COLVIN RUN LIMESTONE

WAYNESBURG "A" COAL BED

WAYNESBURG SANDSTONE

WAYNESBURG COAL BED

UNIONTOWN SANDSTONE

UNIONTOWN SANDSTONE

UNIONTOWN SANDSTONE

UNIONTOWN LIMESTONE

BENWOOD LIMESTONE (COALESCED)

SEWICKLEY SANDSTONE

SEWICKLEY COAL BED

FISHPOT LIMESTONE

REDSTONE COAL BED

REDSTONE LIMESTONE

PITTSBURGH COAL BED

UPPER PGH LIMESTONE

PITTSBURGH COAL BED

UPPER BENCH - SEWICKLEY COAL BED

LOWER BENCH - SEWICKLEY COAL BED

UPPER BENCH - SEWICKLEY COAL BED

LOWER BENCH - SEWICKLEY COAL BED

UPPER PGH LIMESTONE

LOWER PGH SANDSTONE

LOWER PGH LIMESTONE

D18

C355

C354

C353

C352

D21

EM9412

WASHINGTON SANDSTONE  
LITTLE WASHINGTON COAL BED

COLVIN RUN LIMESTONE  
WAYNESBURG "A" COAL BED

WAYNESBURG SANDSTONE

WAYNESBURG COAL BED

GILBOY SANDSTONE

WAYNESBURG LIMESTONE

UNIONTOWN LIMESTONE (LIMESTONE "D")

ARNOLDSBURG SANDSTONE

LIMESTONE "C"

LIMESTONE "B"

LIMESTONE "A"

BENWOOD LIMESTONE

UPPER BENCH - SEWICKLEY COAL BED

LOWER BENCH - SEWICKLEY COAL BED

FISHPOT LIMESTONE

REDSTONE LIMESTONE

PITTSBURGH SANDSTONE

PITTSBURGH COAL BED  
UPPER PGH LIMESTONE

LOWER PGH SANDSTONE  
LOWER PGH LIMESTONE

COLVIN RUN LIMESTONE

WAYNESBURG "A" COAL BED

COLVIN RUN LIMESTONE

MANNINGTON SANDSTONE

UNIONTOWN SANDSTONE

WAYNESBURG LIMESTONE

GILBOY SANDSTONE

UNIONTOWN SANDSTONE

ARNOLDSBURG SANDSTONE

UPPER BENCH - SEWICKLEY COAL BED

LOWER BENCH - SEWICKLEY COAL BED

UPPER PGH LIMESTONE

LOWER PGH SANDSTONE

LOWER PGH LIMESTONE