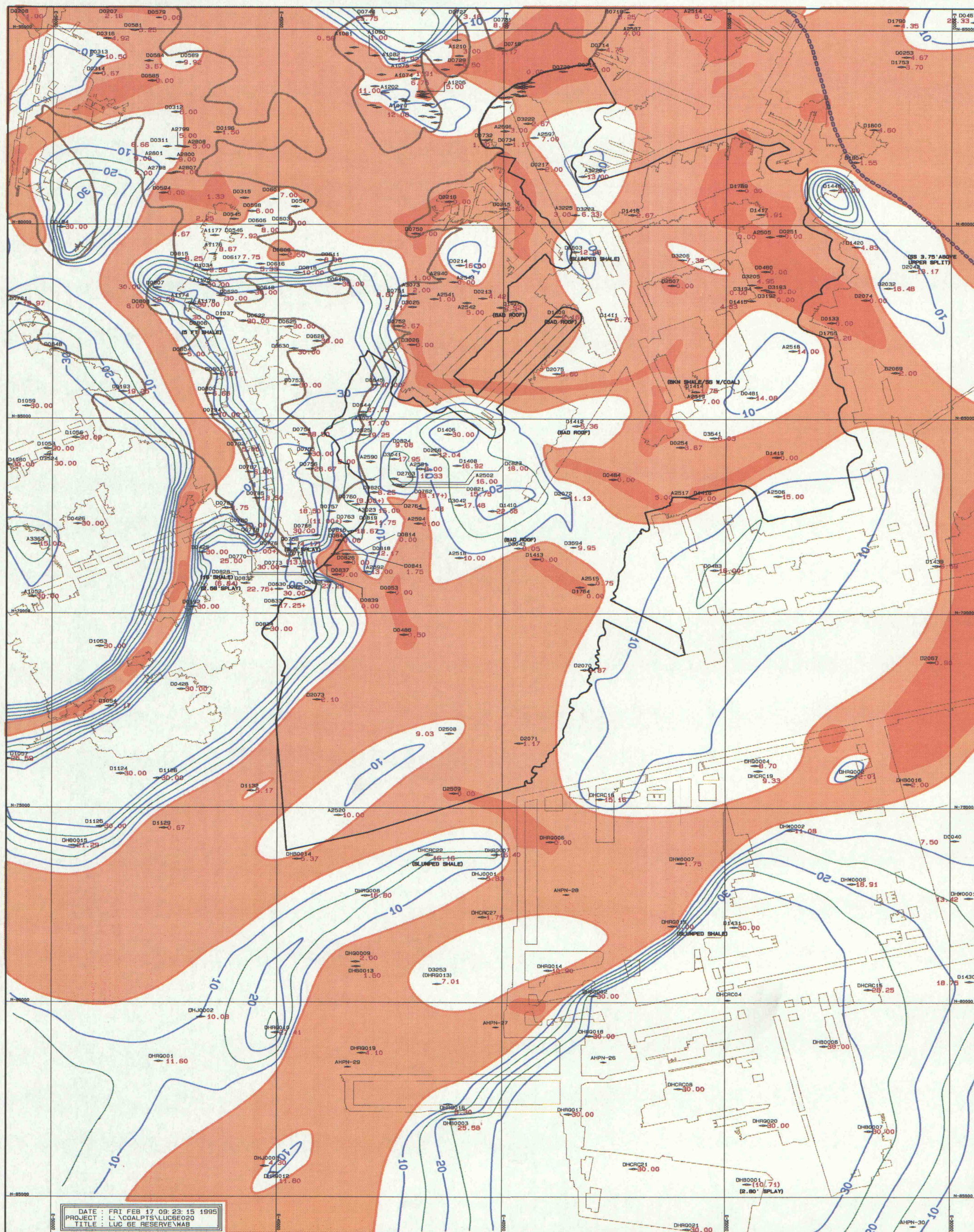




HELVETIA COAL CO. LUCERNE NO.6E UPPER FREEPORT SEAM SHALE THICKNESS WITHIN FIRST 30 FT ABOVE COAL

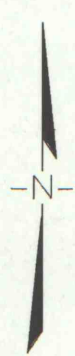
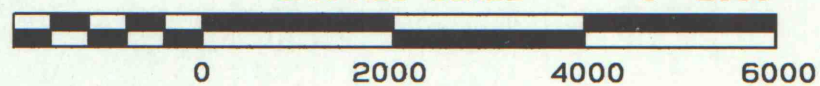
NOTE: VALUES IN PARENTHESES ARE NOT USED IN CONTOURING.
 : SHALE THICKNESS VALUES NOTED ON MAP IN BOLD BLACK PRINT ARE FOR HOLES WITH LESS THAN 30 FT OF COVER.

CONTOUR INTERVAL = 5 FT.

PERMIT BOUNDARY
 TRANSITION ZONE (SPLIT LINE)
 UPPER FREEPORT CROPLINE

SANDSTONE WITHIN 5 FT OF COAL
 SANDSTONE DIRECTLY OVERLYING COAL

GRAPHIC SCALE 1"=2000'



IMAPSH 09407