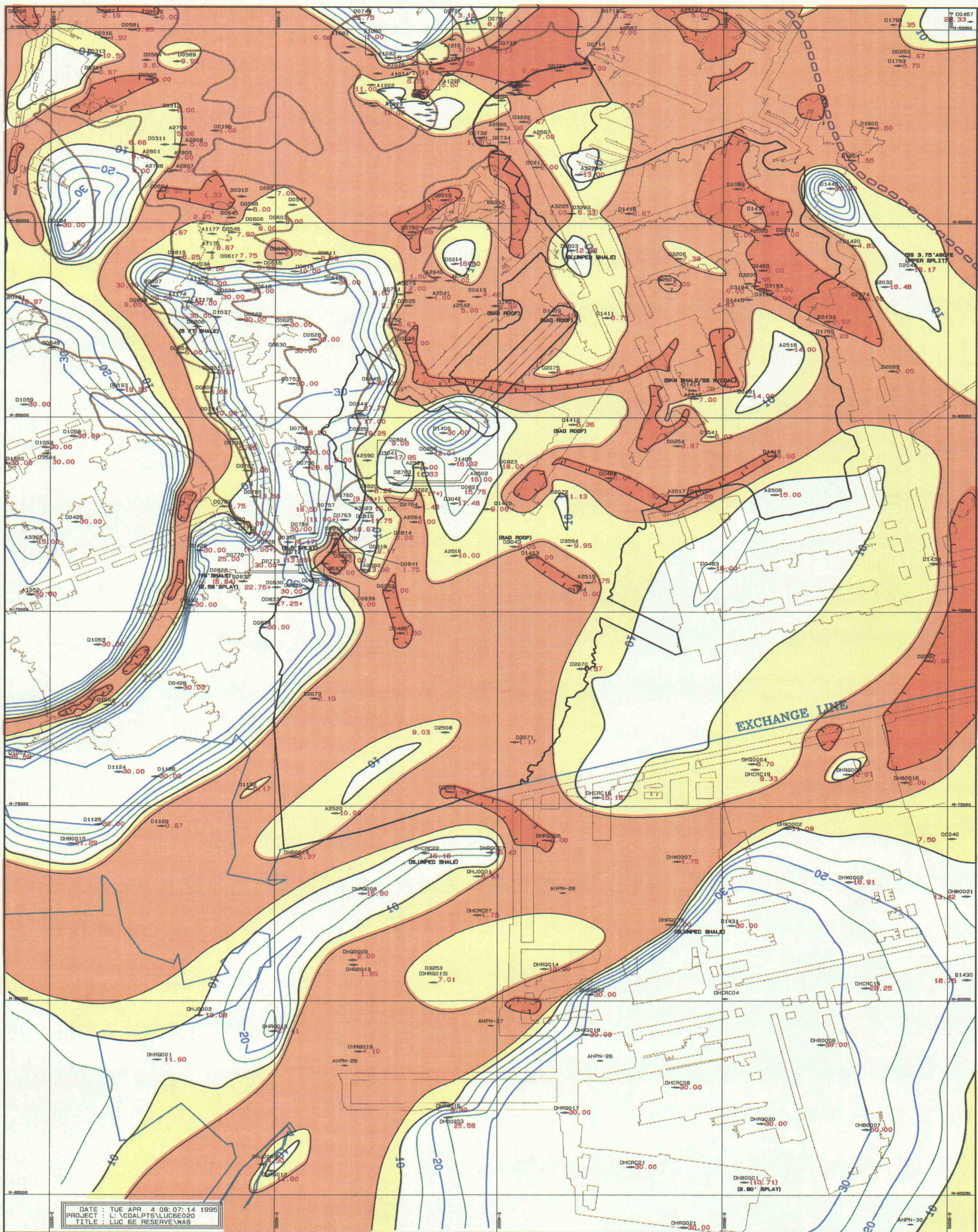




HELVETIA COAL CO. LUCERNE NO.6E UPPER FREEPORT SEAM SHALE THICKNESS

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
 10 FT OF COAL
 SANDSTONE WITHIN
 5 FT OF COAL
 SANDSTONE DIRECTLY
 OVERLYING COAL

GRAPHIC SCALE 1"=2000'

0 2000 4000 6000

IMAPS# 09413