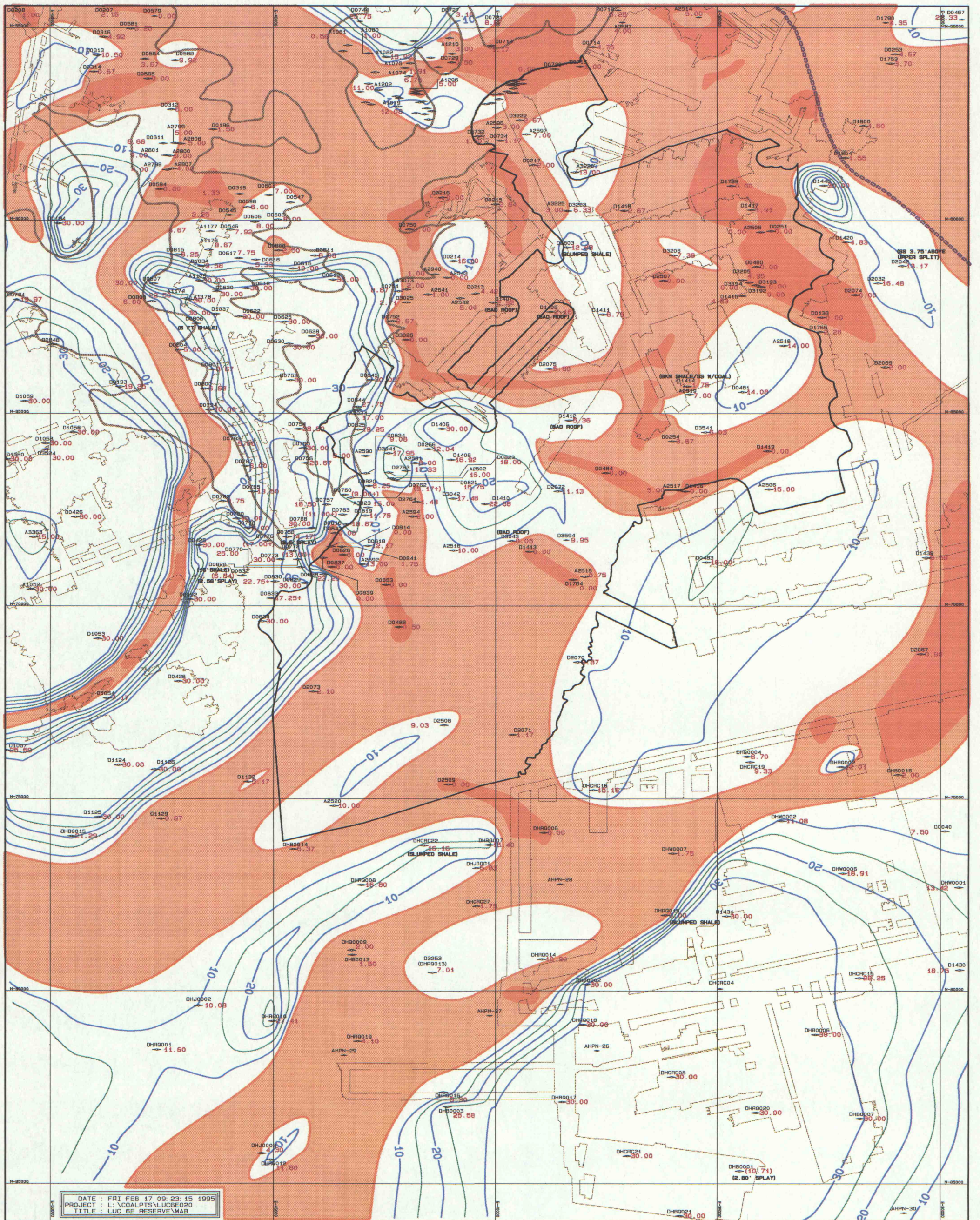




HELVETIA COAL CO. LUCERNE NO.6E UPPER FREEPORT SEAM SHALE THICKNESS WITHIN FIRST 30 FT ABOVE COAL

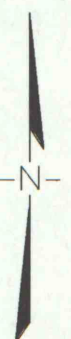
**NOTE: VALUES IN PARENTHESES
ARE NOT USED IN CONTOURING.**
: SHALE THICKNESS VALUES NOTED ON MAP IN BOLD BLACK
PRINT ARE FOR HOLES WITH LESS THAN 30 FT OF COVER.

CONTOUR INTERVAL = 5 FT.

SANDSTONE WITHIN
5 FT OF COAL
SANDSTONE DIRECTLY
OVERLYING COAL

PERMIT BOUNDARY
TRANSITION ZONE (SPLIT LINE)
UPPER FREEPORT CROPLINE

GRAPHIC SCALE 1"=2000'
0 2000 4000 6000



IMAPS #09418