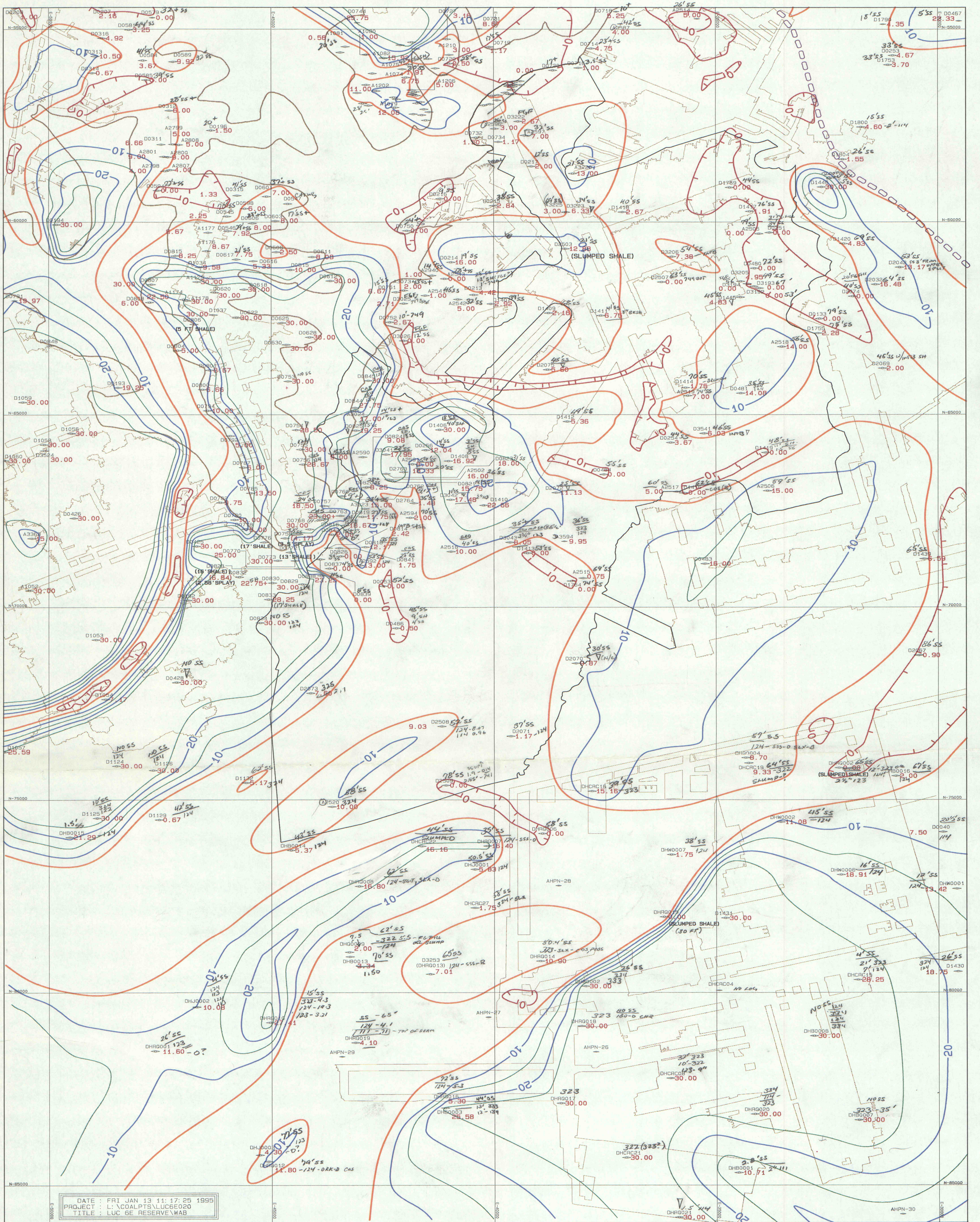




HELVETIA COAL CO. LUCERNE NO.6E UPPER FREEPORT SEAM SHALE THICKNESS

CONTOUR INTERVAL = 5 FT.

- PERMIT BOUNDARY
- TRANSITION ZONE (SPLIT LINE)
- UPPER FREEPORT CROPLINE

