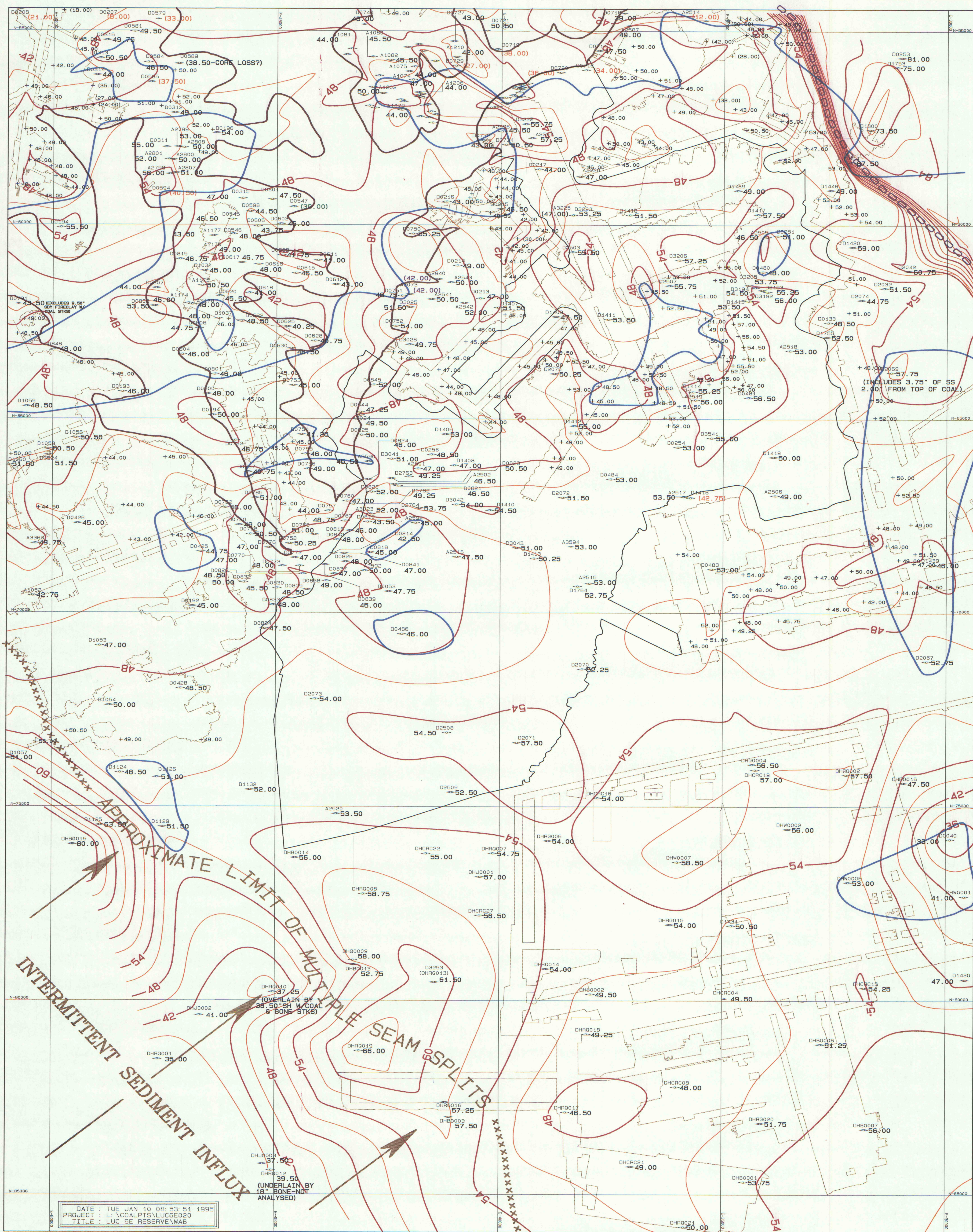


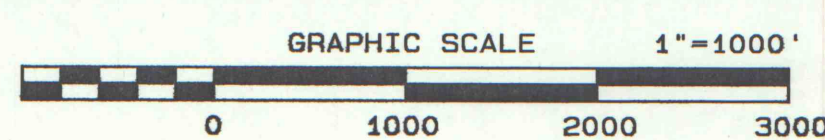


HELVETIA COAL CO. LUCERNE NO.6E UPPER FREEPORT SEAM MINEABLE COAL THICKNESS

CONTOUR INTERVAL = 3 IN.

- 51.00 MINEABLE SEAM HEIGHT(IN)
- + 44.00 IN-MINE MEASUREMENT(IN)
- 0" ISOPACH - BOTTOM "RASH"
- PERMIT BOUNDARY
- TRANSITION ZONE (SPLIT LINE)
- UPPER FREEPORT CROPLINE

NUMBERS IN PARENTHESES NOT CONTOURED
(35.00) THICKNESS ASSUMED REDUCED BY POST-DEPOSITIONAL SANDSTONE CHANNELING
(42.00) THICKNESS ASSUMED TO EXCLUDE BOTTOM "RASH"
(27.00) ASSUMED THINNING DUE TO NEARNESS TO CROP



IMAPS# 09440