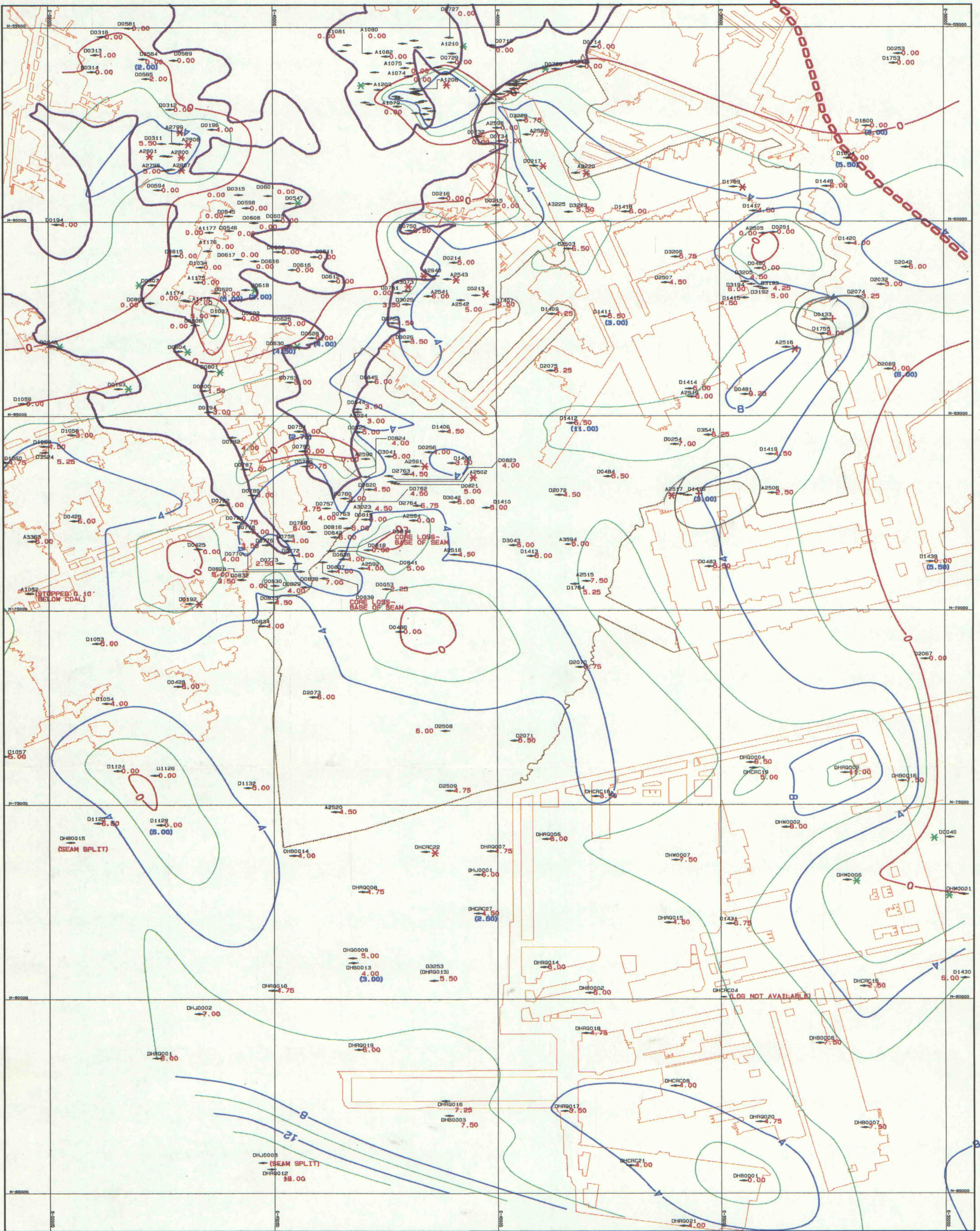




HELVETIA COAL CO. LUCERNE NO. 6E UPPER FREEPORT SEAM BOTTOM "RASH" THICKNESS

- * BENCHES NOT DIFFERENTIATED—BOTTOM THICKNESS ASSUMED EQUAL ZERO
- * BENCHES NOT DIFFERENTIATED—NO BOTTOM THICKNESS VALUE ASSUMED
- + BOTTOM COAL ASSUMED PRESENT—NOT REPORTED

NOTE * BLUE NUMBERS IN PARENTHESES INDICATE THICKNESS IN INCHES OF SHALE WITHOUT COAL OR BONE STREAKS BETWEEN THE COAL AND UNDERCLAY. THIS SHALE IS CONSIDERED BOTTOM AND IS NOT CONTOURED.

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

