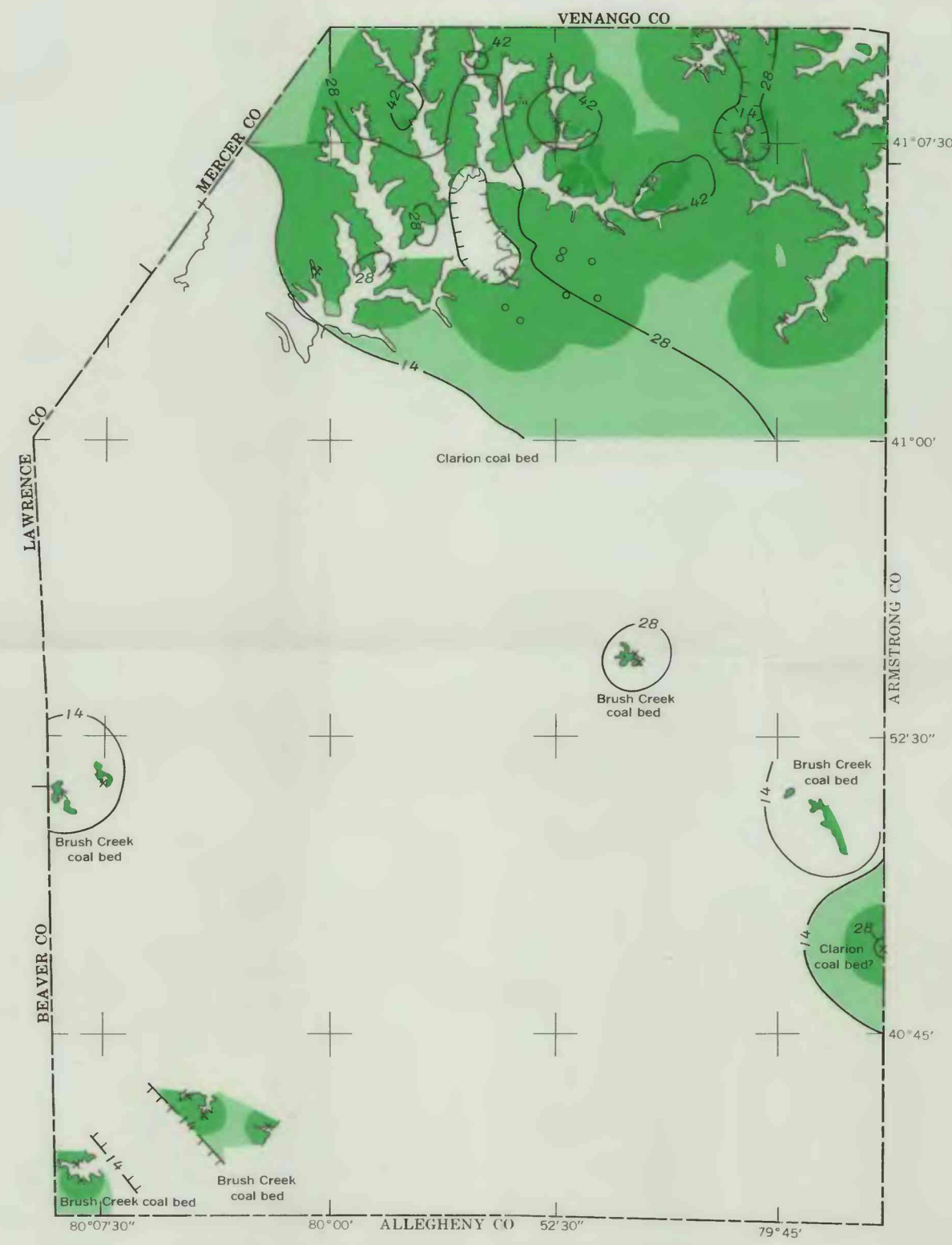




A. UPPER KITTANNING, BROOKVILLE, AND DUQUESNE COAL BEDS



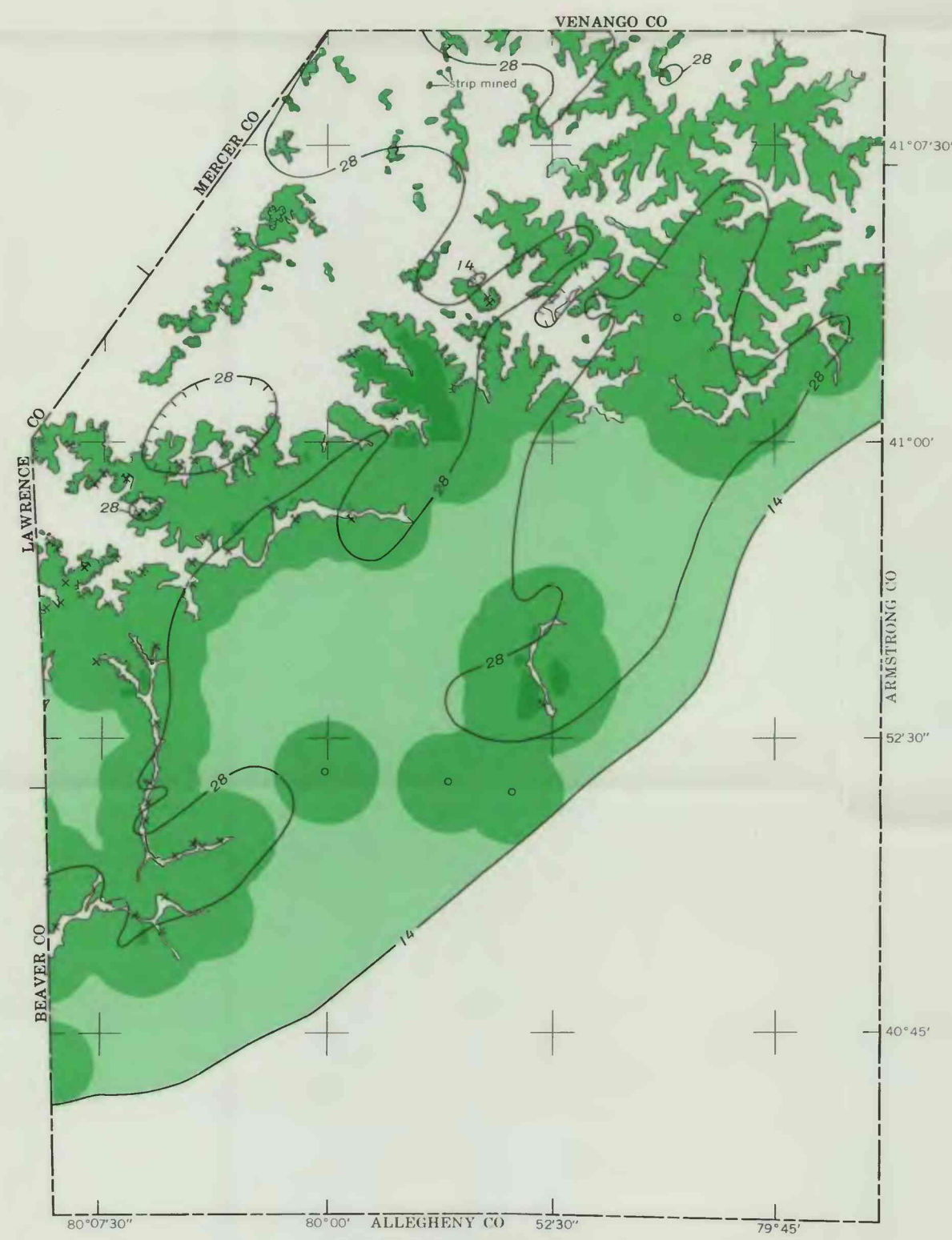
B. CLARION AND BRUSH CREEK COAL BEDS



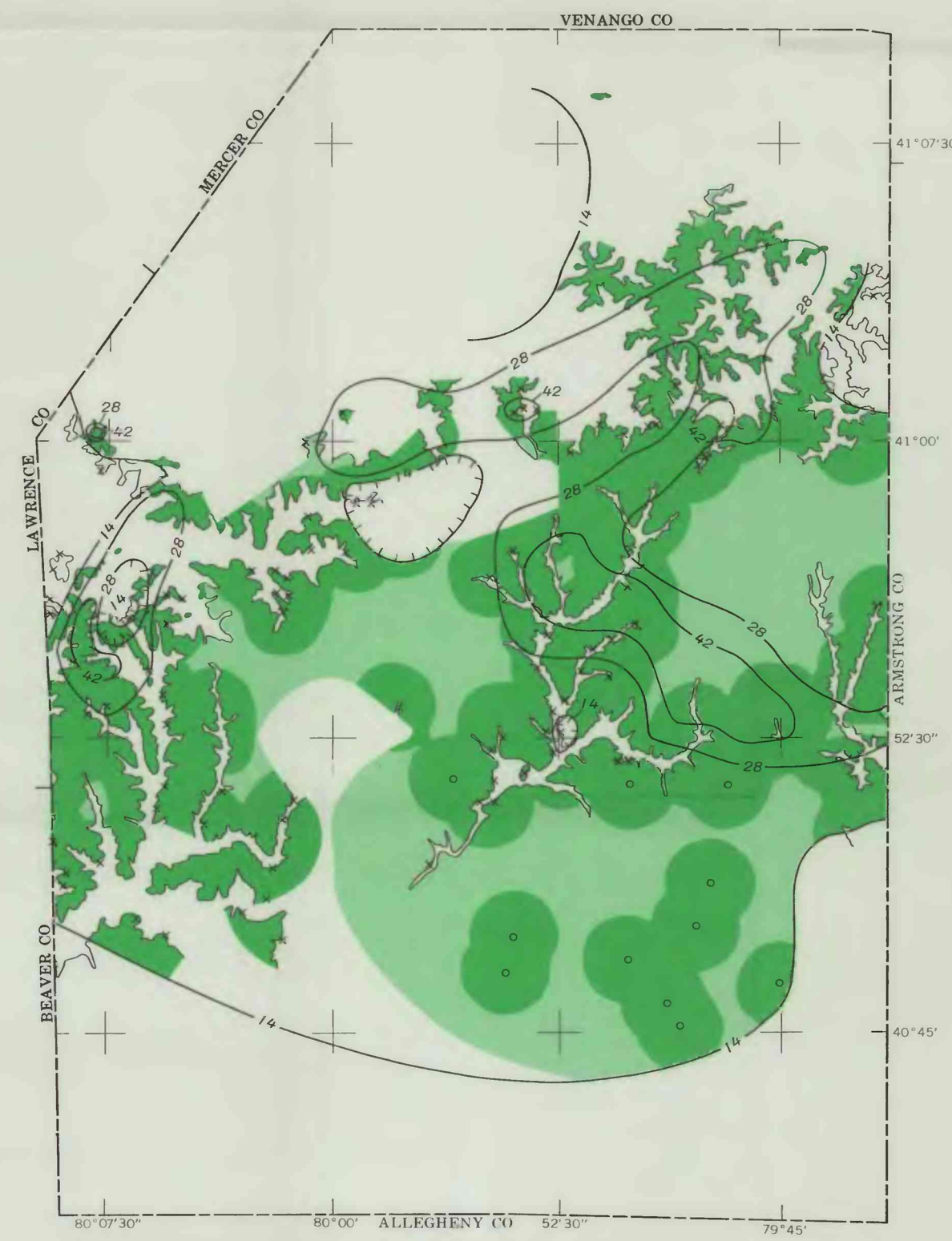
C. SCRUBGRASS AND MAHONING COAL BEDS



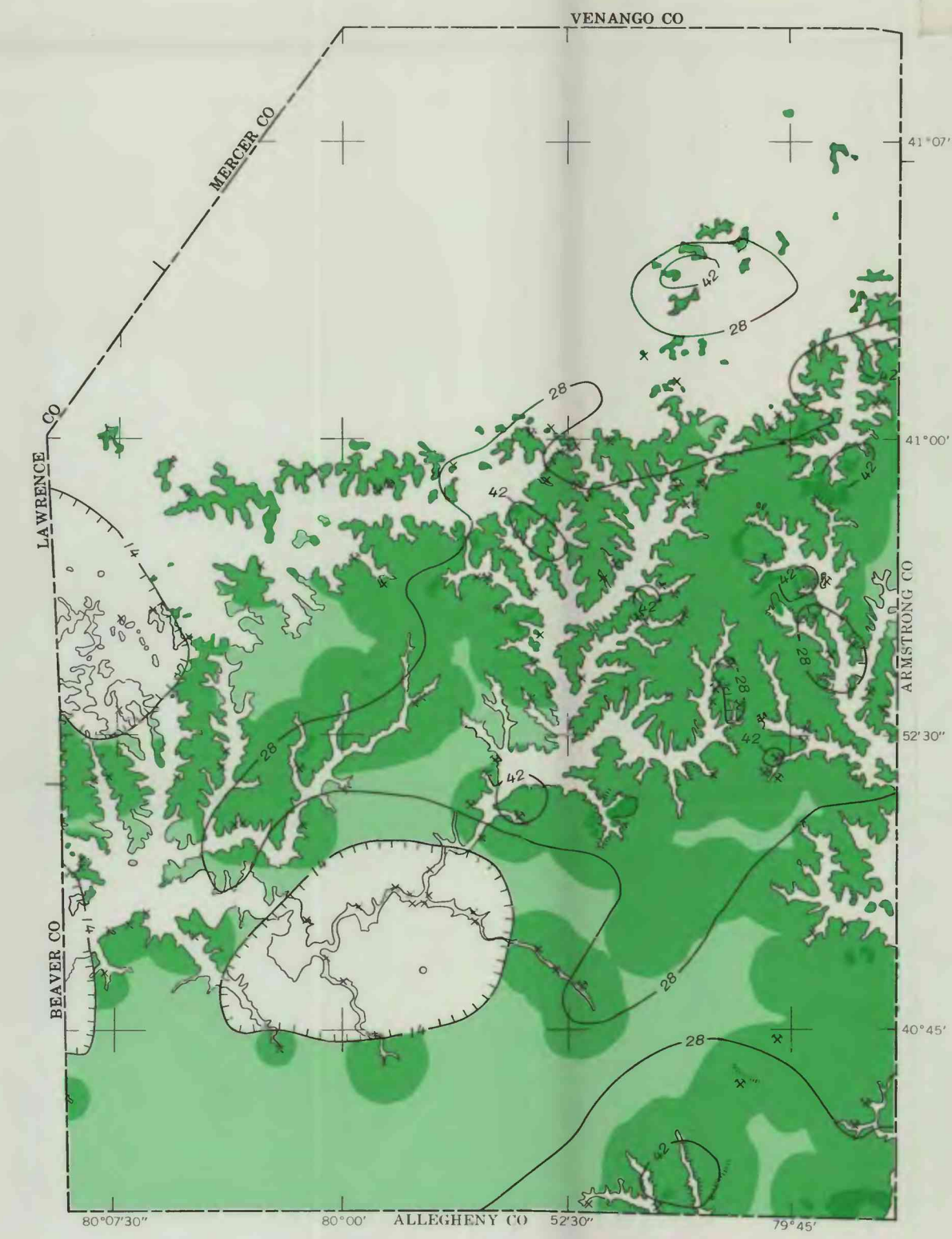
D. LOWER KITTANNING COAL BED



E. MIDDLE KITTANNING COAL BED



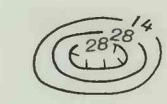
F. LOWER FREEPORT COAL BED



G. UPPER FREEPORT COAL BED

EXPLANATION

- Mined-out area as of January 1, 1959
- Area of measured and indicated resources
- Area of inferred resources
- Area where coal bed is absent or less than 14 inches thick. Not included in resource estimates



Isopachs
Contour interval 14 inches.
Hachures point to thinner coal

Outcrop of coal bed

Underground mine of unknown size

Strip mine

Stripped outcrop

Oil or gas drill hole

Point of geological observation

MAPS SHOWING COAL-RESOURCE AREAS AND ISOPACHS FOR COAL BEDS IN BUTLER COUNTY, PENNSYLVANIA

