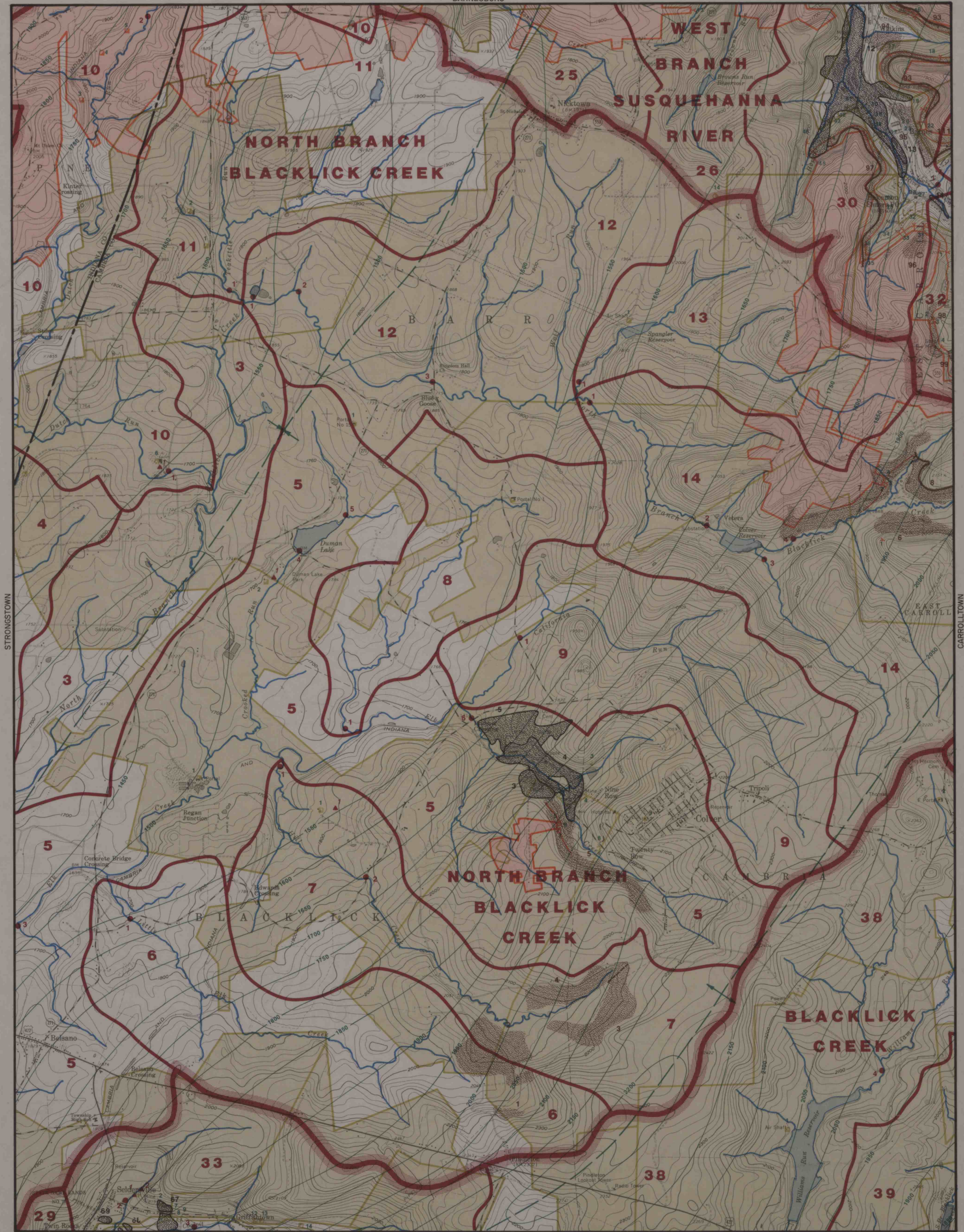


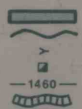


STRONGTOWN

CARROLLTOWN



UPPER FREEPORT COAL (U.F.)
 LOWER FREEPORT COAL (L.F.)
 UPPER KITTANNING COAL (U.K.)
 MIDDLE KITTANNING COAL (M.K.)
 LOWER KITTANNING COAL (L.K.)
 PITTSBURGH (Pgh.), BARTON (Ba.), HARLEM (Har.), UPPER BAKERSTOWN (U.B.), LOWER BAKERSTOWN (L.B.), BRUSH CREEK (B.Cr.), MAHONING (Mah.), CLARION (Cl.), BROOKVILLE (Br.), MERCER (Mr.) (LABELLED).



DEEP MINE AREA (in color of coal seam)
 OUTCROP LINE (in color of coal seam)
 MINE ENTRY (in color of coal seam)
 DEEP MINE SHAFTS (in color of coal seam)
 COAL STRUCTURE CONTOURS (in color of coal seam)
 AUGER MINING (in color of coal seam)
 DEEP MINE OPENING REFERENCE NUMBER (all Green)
 ANTICLINE, SYNCLINE (all Green)
 SUBSIDENCE AREA



COUNTY LINE
 MINE REFUSE AREA
 STRIP MINE AREA
 HIGHWALL
 WATERSHED BOUNDARY
 WATERSHED NUMBER
 STREAM SAMPLING POINT
 MINE DRAINAGE DISCHARGE POINT
 MAJOR DRAINAGE BASIN BOUNDARY

U.S. BUREAU OF MINES
 Washington, D.C. 20241

SCALE IN FEET
 0 2000 4000

COLVER QUADRANGLE

ABANDONED MINED LANDS
 SURVEY DEMONSTRATION

MINING INFORMATION SUMMARY MAP

CAMBRIA AND INDIANA COUNTIES, PENNSYLVANIA
 AUGUST, 1978