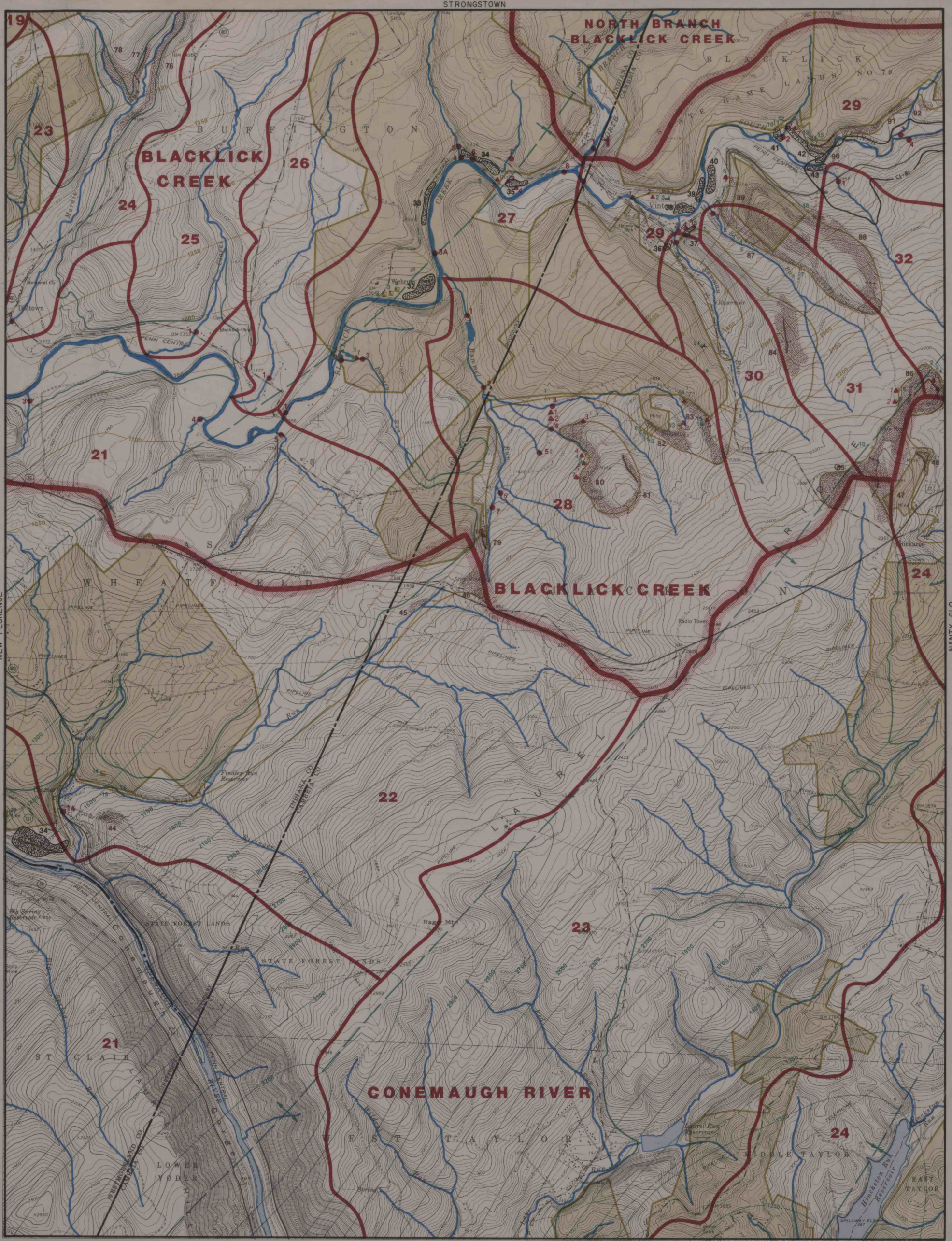




UPPER FREEPORT COAL (U.F.)

LOWER FREEPORT COAL (L.F.)

UPPER KITTANNING COAL (U.K.)

MIDDLE KITTANNING COAL (M.K.)

LOWER KITTANNING COAL (L.K.)

PITTSBURGH (Ph), BARTON (Ba), HARLEM (Hm), UPPER BAKERSTOWN (U.B.), LOWER BAKERSTOWN (L.B.), BRUSH CREEK (B.C.), 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

1" = 1 MILE

VINTONDALE QUADRANGLE
ABANDONED MINED LANDS
SURVEY DEMONSTRATION
MINING INFORMATION SUMMARY MAP
CAMBRIA AND INDIANA COUNTIES, PENNSYLVANIA
AUGUST, 1978