UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
TOPOGRAPHIC AND GEOLOGIC SURVEY

BOLIVAR QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

5165 III SE (MC INTYRE)
5165 II SE (BRUSH VALLEY)
5165 II SW (INDIANA)
INDIANA 9 MI.
HOMER CITY 2.6 MI.
1 610 000 FEET
79°15'
79°07'30"
40°30'
40°27'30"
12'30"
10'
640 000m E.
658
659 000m E.
4484 000m N.
4471 000m N.
420 000 FEET
390 000 FEET
40°22'30"

GRAFF COAL CO.
MINES
(COAL OWNERS NAMES
INSIDE MINE LIMITS)

GRAFF
WILEY/McCREA
DIXON
McCREA
WILEY
JOSEPHINE MINE
BELLS MILLS MINE
JOSEPHINE NO. 2
VIRGINIA NO. 2
SMITH COAL CO.
JEWELL NO. 3
SMITH MINE
GARFIELD REFRACTORIES
NO. 3
GARFIELD
CLAY MINE
GARFIELD
REFACTORIES
NO. 2
CLAY MINE
FLORENCE NO. 1

BLACK LICK CREEK
BRUSH VALLEY
BUFFALO
PENN VIEW MOUNTAIN
WEST WHEATFIELD
FAIRFIELD
DEER
CHERRY RIVER
STATE GAME LANDS NO 276
STATE GAME LANDS NO 153
TORRANCE STATE HOSPITAL
Grafton
Black Lick
Palmertown
Fairfield Heights
Marshall Heights
Josephine
Gaging Sta
Campbells Mill
Blairsville
Strangford
Smith
Blairsville Joint High Sch
Golf Course
Strip Mines
Tannery
Grays
Lookout Tower
Radio Tower
Robinson
West Bolivar
Bolivar
Westview Cem
Pubmill
Mine
Climax
Mt Tabor Ch
Gas Well
Water Tank
Tipple
Shire
Freeman Creek
Tannery Hollow
Hardscrabble Run
Bear Cave Hollow
Wells Run
Golf Course Run
Penn View Run
Freeman Run
Mine Run
Rose Run
Reeds Run
Laurel Run
Beech Run
Blacklick Creek
Conemaugh River
Two Lick Creek
Yellow Creek
Crooked Creek
Little Yellow Creek
Little Mahoning Creek
Mahoning Creek
Little Mahoning Creek
Two Lick Creek
Yellow Creek
Crooked Creek
Little Yellow Creek
Little Mahoning Creek
Mahoning Creek

PITTSBURGH (V1A U.S. 22) 46 MI.
NEW ALEXANDRIA 10 MI.
5164 IV NE (BLAIRSVILLE)
1.1 MI. TO PA. 259
EBENSBURG 23 MI.
5164 I NE (NEW FLORENCE)
3.9 MI. TO U.S. 22
(WILPEN) 5164 I SW
13 MI. TO U.S. 30
GREENSBURG 27 MI.
(DERRY) 5164 IV SE
(RACHEL WOOD) 5164 I SE

Mapped, edited, and published by the Geological Survey

Control by USGS, NOS/NOAA, and USCE

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964

Polyconic projection. 10,000-foot grid ticks based on Pennsylvania coordinate system, south zone. 1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue. 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 4 meters south and 20 meters west as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Areas covered by dashed light-blue pattern are subject to controlled inundation by Conemaugh Dam

There may be private inholdings within the boundaries of the National or State reservations shown on this map

MN GN
7½° 133 MILS
1°11' 21 MILS
UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 5 0 1 KILOMETER
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

LOWER KITTANNING
PITTSBURGH

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U.S. Route — State Route

PENNSYLVANIA
QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled in cooperation with Commonwealth of Pennsylvania agencies from aerial photographs taken 1977 and other sources. This information not field checked. Map edited 1981

BOLIVAR, PA.
N4022.5—W7907.5/7.5
1964
PHOTOREVISED 1981
DMA 5164 I NW—SERIES V831

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