TATES
THE INTERIOR
SURVEY

INDIANA QUADRANGLE
PENNSYLVANIA—INDIANA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 INDIANA 15' QUADRANGLE

INDIANA
WHITE
CHERRYHILL
ARMSTRONG
CENTER
BLACKLICK
BRUSHVALLEY
WHEATFIELD
EAST WHEATFIELD
WEST WHEATFIELD
BURRELL
FAIRFIELD
STCLAIR
DERRY

CRICHTON COAL & COKE CO.
VIRGINIA NO. 20 MINE
BRUSH VALLEY & CENTER TWPS.
INDIANA CO. PA.
OCTOBER 1966

LEGEND
BOUNDARIES OF AREA UNDER LEASE
OUTLINE OF MINING OPERATIONS TO DATE

PERMIT NUMBER - 173-1
"B" OR LOWER KITTANNING SEAM

#2918

Published by the Geological Survey
Control USCE
Topographic methods from aerial photographs
1962–1964
North American datum
Pennsylvania coordinate system, south zone
Universal Mercator grid ticks, zone 17,

SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

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

BOLIVAR, PA.

Published by the Geological Survey
Control USGS and USC&GS
Topography by photogrammetric methods from aerial photographs
1960–62. Field checked 1964
Polyconic projection. 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system, south zone
1,000-foot Universal Transverse Mercator grid ticks, zone 17,
shoreline
Unclassified lines indicate selected fence and field lines where
visible on aerial photographs. This information is unchecked

SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

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

NEW FLORENCE, PA.