UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WEST VIRGINIA
REPRESENTED BY THE
STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
AND OTHER STATE AGENCIES

BETHANY QUADRANGLE
WEST VIRGINIA—PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 WHEELING 15′ QUADRANGLE

4864 I SW (STEUBENVILLE WEST)
4864 I SE (STEUBENVILLE EAST)
4964 IV SW (AVELLA)
4964 III NW (TILTONSVILLE)
4964 III NW (WEST MIDDLETOWN)
(WHEELING) 4864 I SW
(CLARKSVILLE) 4964 III SW
(VALLEY GROVE) 4864 II SE

80°37′30″ — 80°30′ — 40°15′ — 40°07′30″

1 200 000 FEET (PA.) — 1 690 000 FEET (W. VA.) — 1 710 000 FEET (W. VA.) — 1 220 000 FEET (PA.)

340 000 FEET (PA.) — 600 000 FEET (W. VA.) — 630 000 FEET (W. VA.) — 310 000 FEET (PA.)

4455000m N. — 4442000m N. — 534000m E. — 542000m E.

STEUBENVILLE, OHIO 9 MI.
WELLSBURG 2.5 MI.
0.7 MI. TO W.VA. 27
BEECH BOTTOM 3.5 MI.
WHEELING (JUNC. U.S. 40) 6.3 MI.
CLINTON 6.3 MI.
3.4 MI. TO U.S. 40
VALLEY GROVE (JUNC. U.S. 40) 2.7 MI.
W. VA. RTE. 27 WASHINGTON (JUNC. U.S. 40) 16 MI.

McKinleyville
Stone Chapel Ch
Bellview Campground
Lower Buffalo Cem
Tipple
Mine
Ford
Strip Mine
Bethany
BETHANY COLLEGE
Alexander Campbell Mansion
Cem
Castleman Run Ch
West Liberty
WEST LIBERTY STATE COLLEGE
Cox Cem
Morgan Cem
Frogtown
Dunsfort
Potomac
Oil Well
Water
Hurtig

BM 1248
BM 1162
BM 1204
BM 1247
BM 1302
BM 1203
BM 1059
BM 1101
BM 1282
BM 1303
BM 1068
BM 906
BM 918
BM 812
BM 839
BM 864
BM 905
BM 848
BM 892
BM 948
BM 720
BM 731
BM 745

RIDGE
McADOO
BUFFALO
LIBERTY
DONEGAL
INDEPENDENCE

Greens Run
Kimlin Run
Pierce Run
Ferry Run
Mingo Run
Grog Run
Hukill Run
Buffalo Creek
Short Creek
Weldman Run
McGraw Run
Logan Run
Castleman Run
Sugarcamp Run
Camp Run
Cascade Run
Gurtisson Run
Longs Run
Curtis Run
Blayney Run
Stotts Run
Apple Pie Ridge
North Fork Huff Run
Brashears Run
Crude Oil Run

WEST VIRGINIA
PENNSYLVANIA
BROOKE CO
OHIO CO
WASHINGTON CO

McCORD HILL ROAD
GENTEEL ROAD
PIERCE RUN ROAD
MC ADOO ROAD
HUKILL HILL ROAD
APPLE PIE RIDGE ROAD
LOCUST GROVE ROAD
CASTLEMAN HILL ROAD
ATCHINSON HILL ROAD
COUNSELMANS HILL ROAD
JEEP TRAIL
CASTLEMAN ROAD
NORTH PRONG ROAD
WELDMAN RUN ROAD
MC GRAW RUN ROAD
SHANGHI-MURRAY ROAD
MC COY ROAD
CRUDE OIL RUN ROAD
BELLS LANE
TELEPHONE LINE
PIPELINE

Mapped, edited, and published by the Geological Survey

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Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1956 and 1957. Field check 1959

Polyconic projection. 1927 North American datum
10,000-foot grids based on West Virginia coordinate system, north zone, and Pennsylvania coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

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

MN — GN
4° 71 MILS — 0°17′ 5 MILS
UTM GRID AND 1959 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

QUADRANGLE LOCATION
W. VA.

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Historical File
Topographic Division
U.S.G.S.
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TOPOGRAPHIC DIVISION
JUN 5 1969
4245

BETHANY, W. VA.—PA.
NE/4 WHEELING 15′ QUADRANGLE
N4007.5—W8030/7.5
1959

AMS 4864 II NE—SERIES V854

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