

AREAL GEOLOGY

STATE OF PENNSYLVANIA
GEORGE W. MCNEES, RICHARD R. HICE, ANDREW S. MCCREATH
COMMISSIONERS
(Punxsutawney)

PENNSYLVANIA
BARNESBORO QUADRANGLE

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

LEGEND

SEDIMENTARY ROCKS

(Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

Qal

Alluvium
(in flood plains of present streams)

Ccm

Conemaugh formation
(shale, thin limestone, some red shale thin coal beds locally workable, and coarse thick-bedded sandstones comprising the Morgantown, Ccm, Salsburg, Cb, and Buffalo, Cb, members)

Ca

Allegheny formation
(chiefly light and dark gray clay shale with variable beds of coarse gray sandstone and several valuable coal beds, Upper Freeport coal at top)

Cpv

Pottsville formation
(thick-bedded sandstone with shale in the middle carrying thin coal, locally workable)

Recent series

Pennsylvanian series

QUATERNARY

CARBONIFEROUS



H. M. Wilson, Geographer in charge.
Triangulation by A. H. Thompson.
Topography by Frank Sutton, E. I. Ireland, and J. S. B. Daingerfield.
Surveyed in 1902 in cooperation with the State of Pennsylvania.

APPROXIMATE MEAN
DECLINATION 1902.

Scale 62500
0 1 2 3 4 Miles
0 1 2 3 4 Kilometers

Contour interval 20 feet.

Datum is mean sea level.

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Geology by Marius R. Campbell, Frederick G. Clapp,
and Charles Butts; assisted by J. S. Burrows.
Surveyed in 1903-4 and 1909.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

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