

AREAL GEOLOGY

STATE OF PENNSYLVANIA
TOPOGRAPHIC AND GEOLOGIC SURVEY COMMISSION
JOSEPH N. PEW, CHAIRMAN
Patton

PENNSYLVANIA
EBENSBURG QUADRANGLE

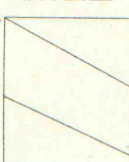
U. S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

LEGEND

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

- | | | |
|---------------|--|--|
| Recent | | Alluvium
(in flood plains of present streams) |
| | | Monongahela formation
(shale and thin sandstone) |
| Pennsylvanian | | Conemaugh formation
with Saltsburg, Ebensburg, Summerville, and Wilmore sandstone lentils
(principally gray sandy shale with sandstone beds; Csb, Cc, Csh, and Cw respectively) |
| | | Allegheny formation
(chiefly gray and dark clay shale with beds of coarse gray sandstone; locally developed and several valuable coal beds; Upper Tropic coal at the top) |
| | | Pottsville formation
(two beds of thick-bedded sandstone, separated by shale bearing locally a thin coal bed) |
| | | Mauch Chunk formation
(soft red shale in upper part, grayish to gray, heavy bedded sandstone in lower part) |
| Mississippian | | Pocahontas formation
(principally gray sandy shale and coarse gray sandstone, with several beds of red clay shale) |
| | | Catskill formation
(predominantly red shale and red sandstone, with some beds of gray and green shale) |
| Devonian | | Chemung formation
(gray and green shale with sandstone layers in lower part; cherty shale and sandstone in upper part; fossiliferous throughout) |
| | | Nunda formation
(thickly laminated, drab, clay shale at bottom, passing into gray sandy shale containing thin, gray and black sandstone layers and a few bands of reddish rock; fossils rare) |
| | | Genesee shale
(soft black clay shale with limestone nodules; sparingly fossiliferous) |
| | | Hamilton formation
(mostly clay and dark-green, clay shale and sandy shale, with a few thin beds of gray sandstone; fossils abundant) |
| | | Allegheny shale
(soft red shale in upper part, grayish to gray, heavy bedded sandstone in lower part) |

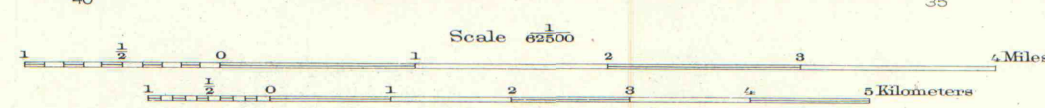
Sections



H.M. Wilson, Geographer in charge.
Control by S.S. Gannett and H.B. Paige.
Topography by Frank Sutton, R.D. Cummin,
T. G. Basinger, and J.S.B. Daingerfield.
Surveyed in 1901-1902.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

APPROXIMATE MEAN
DECLINATION 1900.



Contour interval 20 feet.

Datum is mean sea level.

Edition of Dec. 1905

Geology by Charles Butts,
assisted by W.C. Phalen,
under the direction of Marius R. Campbell.
Surveyed in 1903.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

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