

LEGEND

SURFICIAL ROCKS
(Areas of surficial rocks are shown by patterns of dots and circles.)

Pal
 Alluvium
(in flood plains of present streams)

Pcm
 Carmichael clay
(Clay sand and bowlders on terraces and in abandoned channels of the larger streams.)

SEDIMENTARY ROCKS
(Areas of Sedimentary rocks are shown by patterns of parallel lines.)

Cd
 Dunkard formation
(Sandy shale and coarse sandstone with thin limestone and beds of coal, many of workable size.)

Cm
 Monongahela formation
(Shale, limestone, and occasionally coarse sandstone; Pittsburgh coal at the bottom; Wignimbury coal at the top and coal beds of local importance between.)

Ccm
 Conemaugh formation
(Sandstone, shale and limestone with a few small coal beds.)

Ca
 Allegheny formation
(Shale, sandstone, and clay with several workable coal beds. Upper Freeport coal at the top.)

Cpv
 Pottsville sandstone
(Coarse massive white sandstone or conglomerate with some shale and usually a coal bed at the middle.)

Cmc
 Mauch Chunk shale
(Red and green shale and thin bedded green sandstone.)

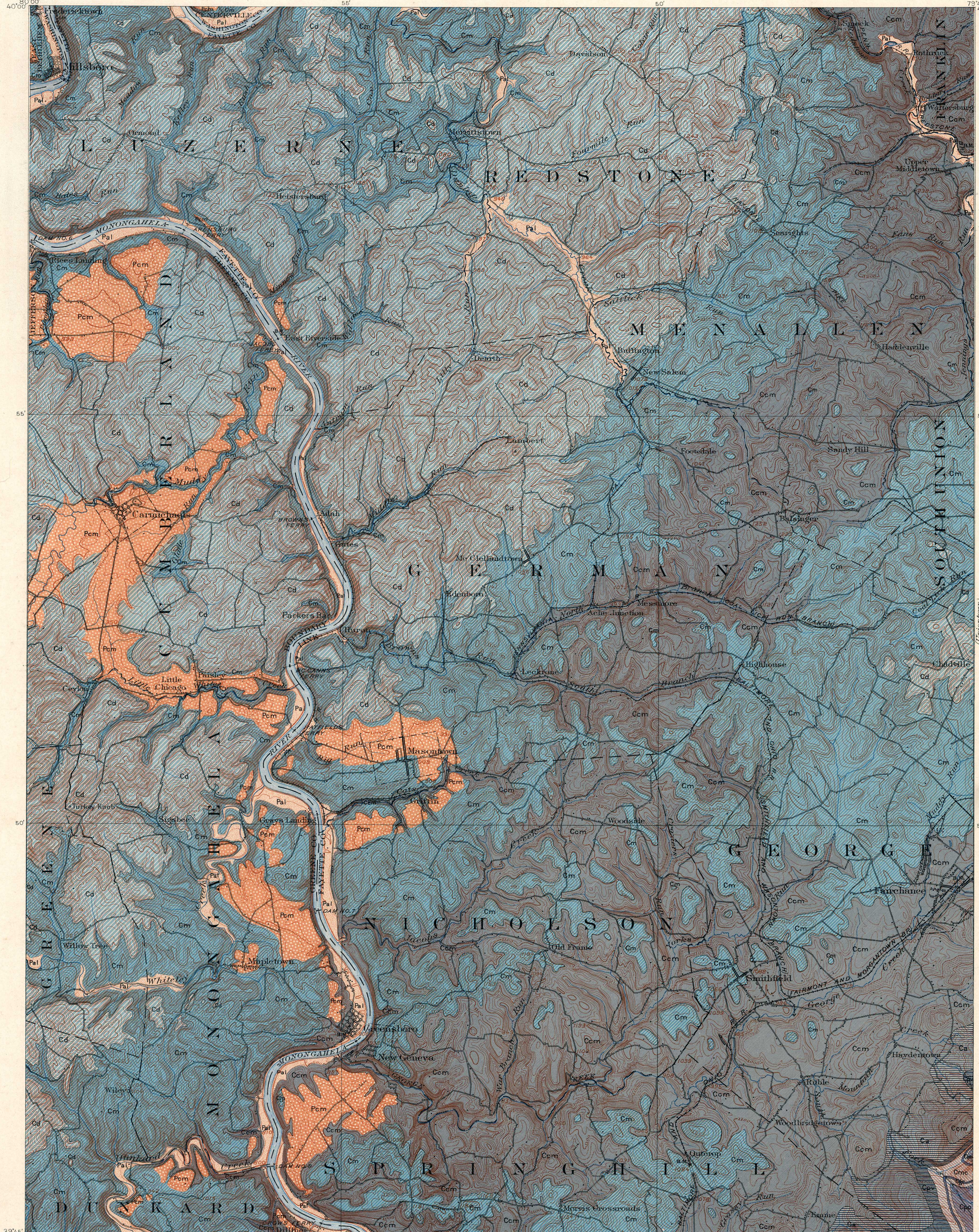
Cgr
 Greenbrier limestone lentil
(Thin blue fossiliferous limestone in the Mauch Chunk shale.)

Cpo
 Pocahontas sandstone
(Coarse sandstone grading into very sandy limestone at the top and usually containing sandy shale.)

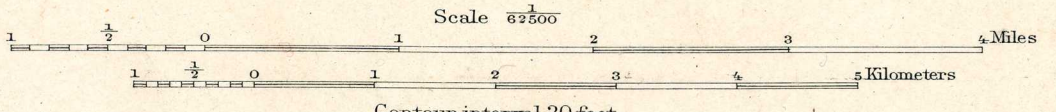
PLEISTOCENE

CARBONIFEROUS

Mississippian series
 (Unknown)



H. M. Wilson, Geographer in charge.
 Control by S.S. Gannett, Sledge Tatam, and A.C. Roberts.
 Topography by Frank Sutton, R.D. Cummin, and H.C. Frick Coke Co.
 Surveyed in 1893 in cooperation with the State of Pennsylvania.



Contour interval 20 feet.
 Datum is mean sea level.
 Edition of Map 1902.

Geology by Marius R. Campbell.
 Assisted by John D. Irving
 and Myron L. Fuller.
 Surveyed in 1900.