



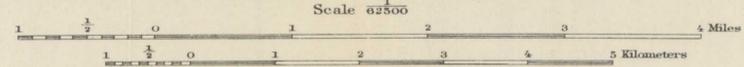
EXPLANATION

<p>Pleistocene and Recent</p>	<p>Qpal</p>	<p>QUATERNARY</p>
	<p>Ponded deposits and recent alluvium</p>	
<p>Pennsylvanian</p>	<p>Cam Ccm</p>	<p>CARBONIFEROUS</p>
	<p>Conemaugh formation <i>(Shale and sandstone including some red beds, limestone, and coal; Cam, Ames limestone member)</i></p>	
	<p>Ca</p>	
	<p>Allegheny formation <i>(Shale and sandstone with important coal beds; Upper Freeport coal at top; only upper part of formation crops out)</i></p>	

GEOLOGIC MAP OF BUTLER QUADRANGLE, PENNSYLVANIA

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 Frank Sutton, Geographer in charge.
 Topography by Wm. O. Tufts, R. H. Reineck, and S. P. Floore.
 Control by C. B. Kendall and C. B. Burns.
 Surveyed in 1908-1909.

Geology by G. B. Richardson
 assisted by R. Van A. Mills
 Surveyed in 1915, 1928, and 1931



Contour interval 20 feet.
 Datum is mean sea level.
 1936

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