

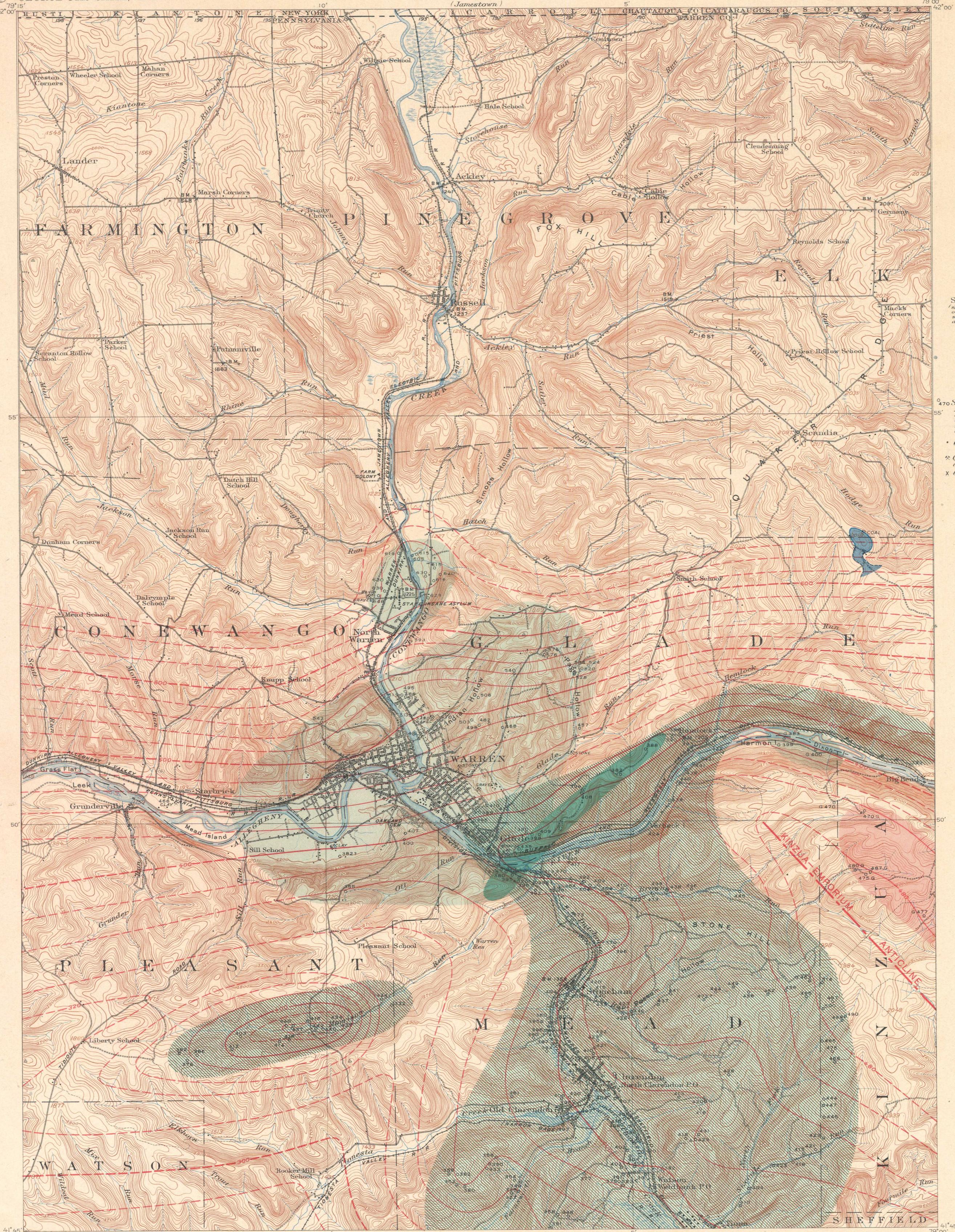
ECONOMIC GEOLOGY

STATE OF PENNSYLVANIA

GEORGE W. MCNEES, RICHARD R. HICE, ANDREW S. MCCREATH
COMMISSIONERS

PENNSYLVANIA-NEW YORK
WARREN QUADRANGLE

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR



H.M. Wilson, Geographer.
Robt. D. Cummin and J.H. Jennings in charge of section.
Topography by Hoy L. Johnston, Assistant; B.D. Stewart,
Control by E.L. McNair and Robt. D. Cummin.
Surveyed in 1905 and 1906.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

APPROXIMATE MEAN DECLINATION (1906)
5° 15' 45"

Scale 1:250,000
1 2 3 4 Miles
1 2 3 4 Kilometers
Contour interval 20 feet.
Datum is mean sea level.
Edition of Aug 1909.

Geology by Charles Butts.
Surveyed in 1907.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.