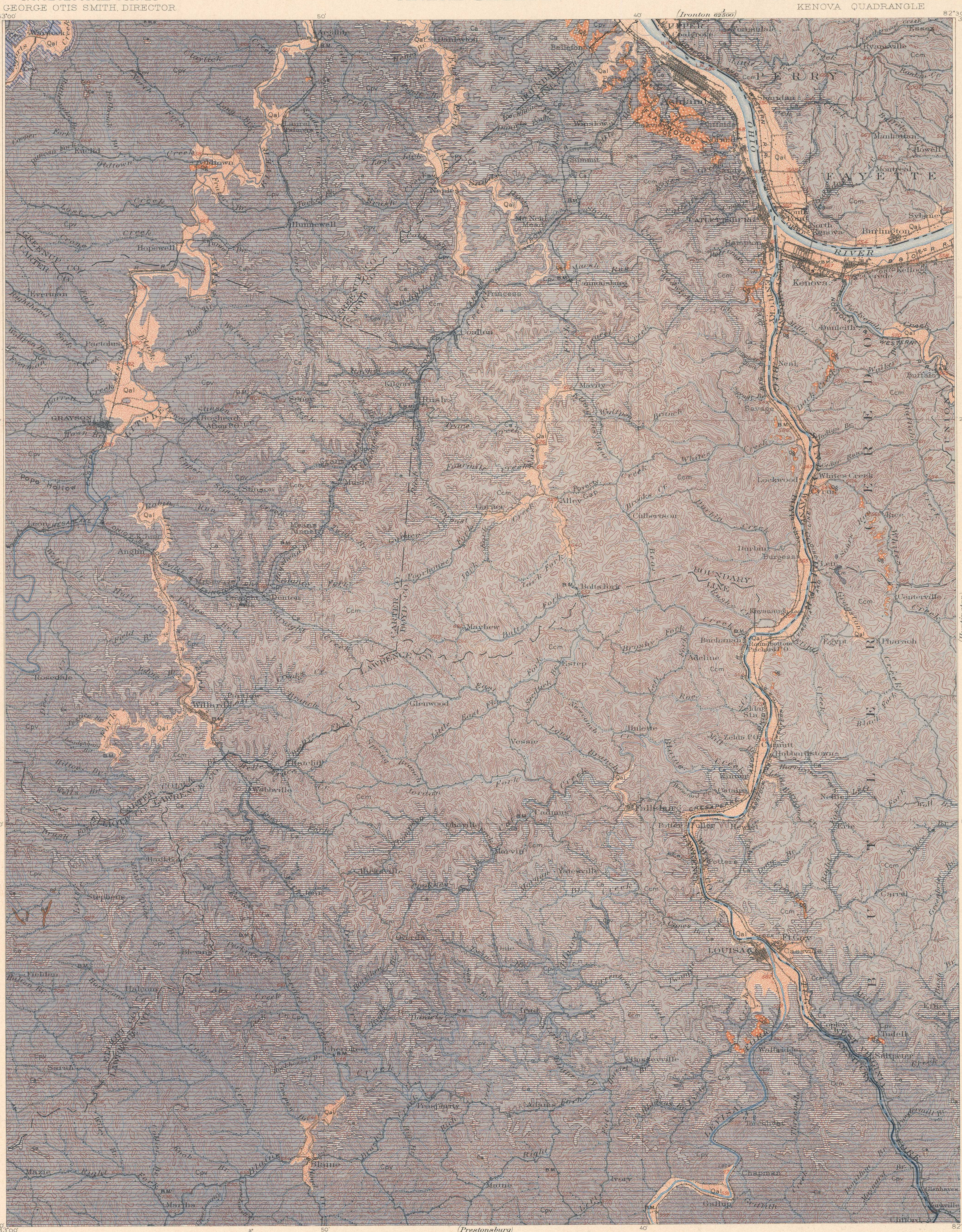
U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

AREAL GEOLOGY

KENTUCKY - WEST VIRGINIA - OHIO
KENOVA QUADRANGLE

SCHOOL OF MINES AND METALLURGY STATE COLLEGE, PA.

(Ironton 1/62500) (Athalia 1/62500)



LEGEND

SEDIMENTARY ROCKS

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

QUATERNARY

- Recent — Qal — Alluvium *(only the larger areas shown)*
- Pleistocene — Qg — High gravel deposits *(clay, sand, gravel, and bowlders, remnants of deposits in abandoned channels above the present drainage)*

CARBONIFEROUS

Pennsylvanian
- Cm, pb — Monongahela formation *(sandstone and shale with Pittsburgh coal at base)*
- Ccm — Conemaugh formation *(massive sandstone, shale, and limestone, with beds of unimportant coal, clay, and iron ore)*
- Ca — Allegheny formation *(sandstone, shale, and shaly sandstone, with valuable coals and beds of clay and iron ore)*
- Cpv — Pottsville formation *(sandstone, shale, and shaly sandstone, with valuable coal beds and beds of clay and iron ore)*

Mississippian
- Cmv — Maxville limestone *(compact, bluish-gray, argillaceous limestone)*
- Cl — Logan formation *(sandstone and shale)*

IGNEOUS ROCKS

- pd — Peridotite dikes *(contain garnet and ilmenite)*

(Huntington)

(Salyersville)

H. M. Wilson, Geographer in charge.
Triangulation by U.S. Coast and Geodetic Survey.
Topography by W. N. Morrill.
Surveyed in 1900-1901.

SURVEYED IN COOPERATION WITH THE STATES OF WEST VIRGINIA AND OHIO

TRUE NORTH / MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1902.

(Prestonsburg)

Scale 1/125000

1 ½ 0 1 2 3 4 5 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 100 feet.
Datum is mean sea level.
Edition of Mar. 1912.

Geology by W. C. Phalen,
under the supervision of and
assisted by George H. Ashley.
Surveyed in 1905 and 1910.

(Warfield)