STRUCTURE SECTIONS

STATE OF NEW JERSEY
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U.S. GEOLOGICAL SURVEY
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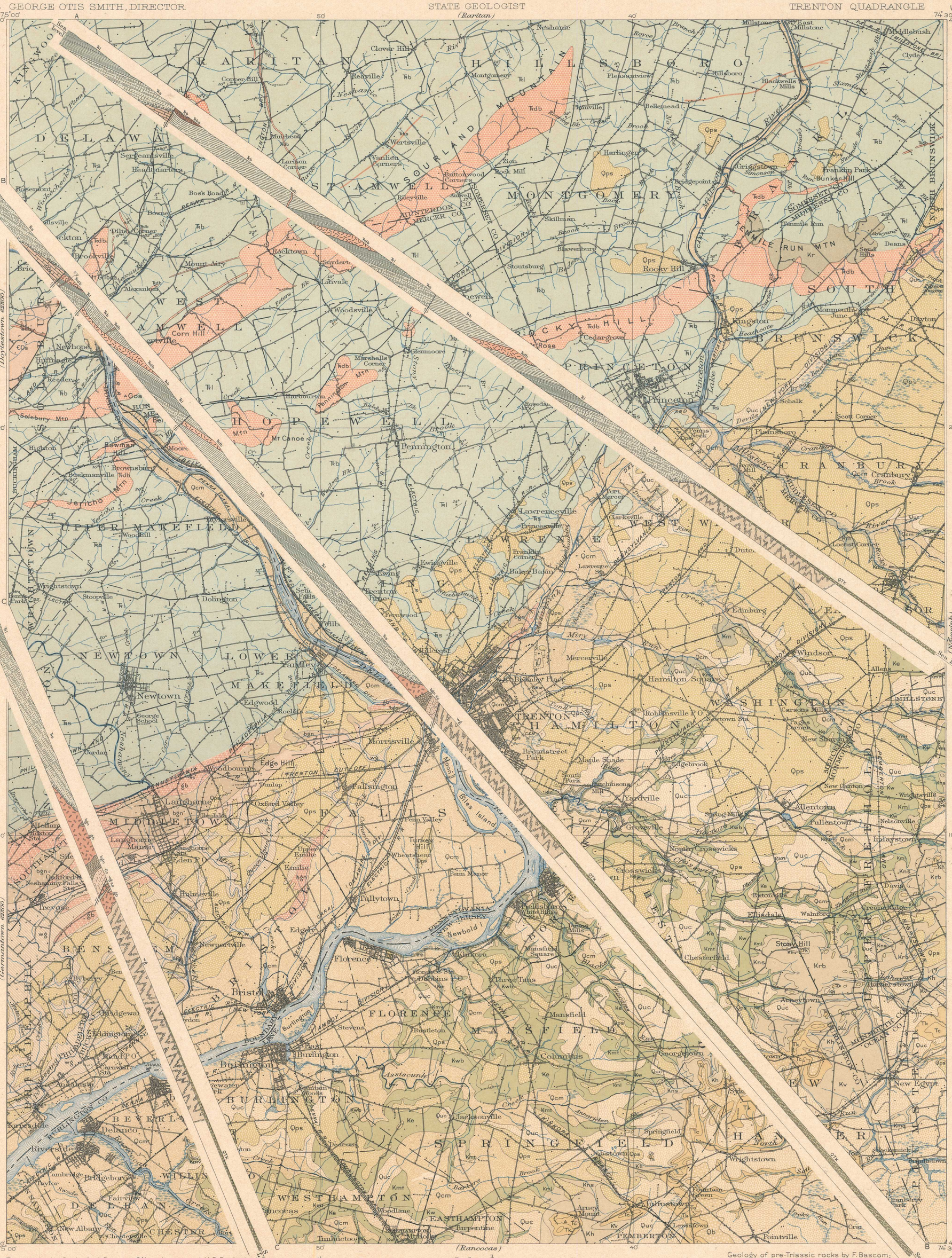
NEW JERSEY – PENNSYLVANIA
TRENTON QUADRANGLE



Topography by Geological Survey of New Jersey and U.S. Geological Survey.
Reduced from Princeton, Burlington, Bordentown, and Lambertville sheets.
Surveyed in 1885–'88.
Revised in 1904–'05.

SURVEYED IN COOPERATION WITH THE STATES OF NEW JERSEY AND PENNSYLVANIA.

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1904.

Scale $\frac{1}{125000}$

1 ½ 0 1 2 3 4 5 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Edition of Mar. 1909.

Geology of pre-Triassic rocks by F. Bascom;
Triassic by N.H. Darton and H.B. Kümmel;
Cretaceous and Tertiary by W.B. Clark, G.N. Knapp, B.L. Miller, H.B. Kümmel, A. Bibbins, E.W. Berry;
Quaternary of New Jersey by G.N. Knapp.
Surveyed in 1893 to 1907.

SURVEYED IN COOPERATION WITH THE STATE OF NEW JERSEY.

LEGEND

SEDIMENTARY ROCKS (continued)

SHEET SYMBOL — SECTION SYMBOL

CAMBRIAN

- €Os / €Os — **Shenandoah limestone** (blue crystalline, siliceous, magnesian limestone)
- €c / €c — **Chickies quartzite** (quartz conglomerate and quartz schist)

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PRE-CAMBRIAN (Doylestown 62500)

- fl — **Franklin limestone** (crystalline white limestone)
- wg / wg — **Wissahickon mica-gneiss** (banded quartz-feldspar-biotite rock)
- bgn / bgn — **Baltimore gneiss** (banded quartz-feldspar rock containing hornblende or biotite) — Includes material of igneous origin

IGNEOUS ROCKS

TRIASSIC

- Ꞧbs / Ꞧbs — **Basalt flows in Newark group** (includes some dikes)
- Ꞧdb / Ꞧdb — **Diabase** (includes small bodies of syenite, etc.)

EARLY CAMBRIAN OR OLDER

- gb / gb — **Gabbro** (gabbro, hypersthene gabbro, and norite)
- sp / sp — **Metapyroxenite and metaperidotite** (serpentine, steatite, anthrophyllite and associated alteration products)
- hgn — **Hornblende gneiss** (hornblende-orthoclase rock)

Faults

Concealed faults (covered by later deposits)

Strike and dip of stratified rocks

LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL — SECTION SYMBOL

QTK — **Quaternary, Tertiary, and Cretaceous formations** (undifferentiated on sections)

QUATERNARY

Pleistocene — Wisconsin stage

- Quc — **Unclassified deposits** (gravel, sand, and loam of various ages; frequently wind blown and usually thin and discontinuous)

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- Qcm — **Cape May formation** (gravel, sand, and clay forming low terraces; includes some recent alluvium and swamp muck)

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- Qps — **Pensauken formation** (gravel and sand on higher terraces and capping hills and divides)

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- Qb — **Bridgeton formation** (gravel and sand, capping higher hills and divides)

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TERTIARY

Miocene

- Tc — **Cohansey sand** (coarse sand with clay lenses)

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- Tk — **Kirkwood formation** (fine, mealy, micaceous sand and, locally, beds of clay)

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CRETACEOUS

Upper Cretaceous — Rancocas group

- Kmq — **Manasquan formation** (dark-green and gray glauconitic marl)
- Kv — **Vincentown sand** (quartz and lime sands, the latter mostly indurated)
- Kh — **Hornerstown marl** (dark-green glauconitic marl)

Monmouth group

- Krb — **Redbank sand** (highly colored and black ferruginous sand, with many concretions)
- Kns — **Navesink marl** (dark-green glauconite marl)
- Kml / Kw — **Mount Laurel and Wenonah sands** (varicolored quartz sand, upper portion marly and coarse, lower portion finer and contains a different fauna, but not separated on map)

Matawan group

- Kmt — **Marshalltown formation** (black sandy clay and sandy marl)
- Ke — **Englishtown sand** (varicolored sand, somewhat lignitic, with occasional thin clay lenses)
- Kwb — **Woodbury clay** (black to dove-colored clay, usually nonglauconitic)
- Kmv — **Merchantville clay** (black sandy clay, usually glauconitic)
- Km — **Magothy formation** (lignitic sand and clay, the latter laminated and often black)

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Lower Cretaceous

- Kr — **Raritan formation** (varicolored clay, some highly refractory, some lignitic, with coarse, cross-bedded sand and some gravel lenses)

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TRIASSIC

Newark group

- Ꞧrb / Ꞧrb — **Brunswick shale** (soft red shale with few sandstone beds)
- Ꞧrl / Ꞧrl — **Lockatong formation** (dark argillite and fine-grained stably sandstone)
- Ꞧrs / Ꞧrs — **Stockton formation** (gray sandstone, arkose, and red shale)

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Legend is continued on the left margin.