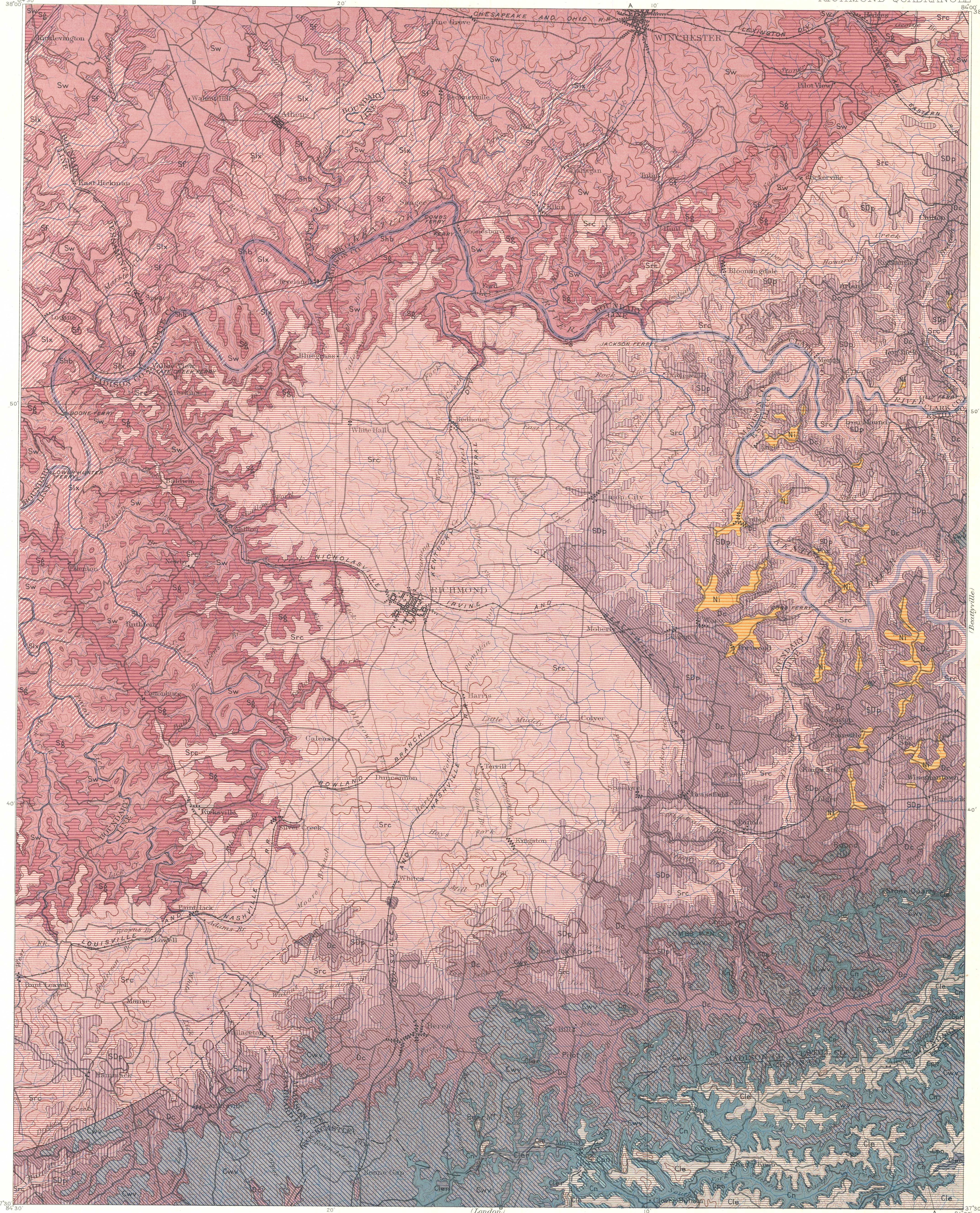
U.S.GEOLOGICAL SURVEY
CHARLES D.WALCOTT, DIRECTOR

HISTORICAL GEOLOGY SHEET

KENTUCKY
RICHMOND QUADRANGLE



LEGEND

SEDIMENTARY ROCKS

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

NEOCENE?

- Ni — Irvine formation *(unconsolidated sand and clay)*

CARBONIFEROUS

- Cle — Lee formation *(shale and sandstone including a few seams of coal)*
- Clec — Corbin conglomerate-lentil *(coarse pink sandstone or conglomerate at the top of the Lee formation)*
- Cler — Rockcastle conglomerate-lentil *(coarse conglomerate in the Lee formation)*
- Cpn — Pennington shale *(red and green shale and impure limestone)*
- Cn — Newman limestone *(blue limestone)*
- Cwv — Waverly formation *(green shale and sandstone)*

DEVONIAN

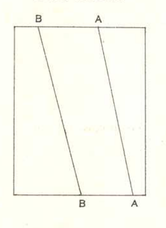
- Dc — Chattanooga shale *(black carbonaceous shale)*

SILURIAN

- SDp — Panola formation *(brown limestone, green shale, and yellow sandstone)*
- Src — Richmond formation *(blue calcareous shale and thin beds of limestone)*
- Sg — Garrard sandstone *(calcareous sandstone)*
- Sw — Winchester limestone *(thin-bedded, blue, crystalline limestone)*
- Sf — Flanagan chert *(thin-bedded limestone carrying nodules and bands of chert)*
- Slx — Lexington limestone *(thin-bedded gray limestone)*
- Shb — Highbridge limestone *(white limestone, blue limestone, and calcareous shale)*

Faults

Sections



Henry Gannett, Chief Topographer.
Gilbert Thompson, Chief Geographer.
Triangulation by C.M.Yeates.
Topography by E.C.Barnard.
Surveyed in 1890.

Scale $\frac{1}{125\,000}$

5 Miles

5 Kilometers

Contour interval 100 feet.

Datum is mean sea level.

Edition of Aug. 1898.

Geology by Marius R. Campbell,
Joseph A. Taff, and Walter C. Mendenhall.
Surveyed in 1896.