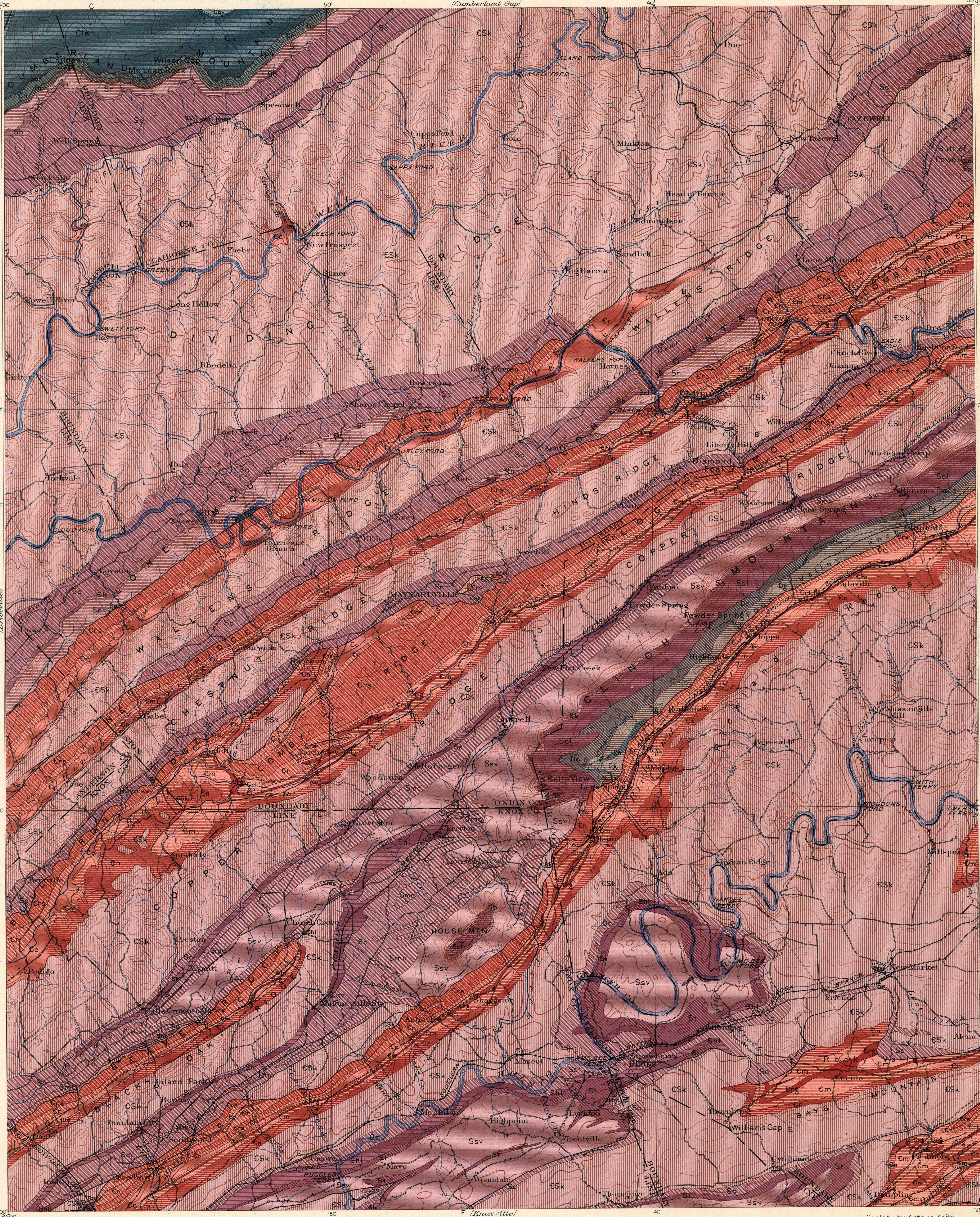
U. S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

# HISTORICAL GEOLOGY SHEET

TENNESSEE
MAYNARDVILLE QUADRANGLE

(Williamsburg) (Cumberland Gap) (Jonesville)




(Loudon) (Knoxville) (Mt. Guyot)

Henry Gannett, Chief Topographer.
H. M. Wilson, Chief Geographer in charge.
Triangulation by S. S. Gannett.
Topography by C. G. Van Hook and J. H. Wheat.
Surveyed in 1892-95.

Van Hook 1892 — Wheat 1895

Scale $\frac{1}{125000}$

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 May 1901.

Geology by Arthur Keith.
Assisted by Marius R. Campbell.
Surveyed in 1889 and 1899.

## LEGEND

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

CARBONIFEROUS

- **Cbv** Briceville shale *(dark-gray argillaceous shale with sandy beds and thick coal beds)*
- **Cle** Lee conglomerate *(massive sandstone and conglomerate with thin coal seams)*
- **Cpn** Pennington shale *(calcareous shale, sandstone, and limestone)*
- **Cn** Newman limestone *(massive blue limestone, cherty near the base)*

DEVONIAN

- **Dg** Grainger shale *(grayish sandstones and sandy shale)*
- **Dc** Chattanooga shale *(carbonaceous black shale)*

SILURIAN

- **Sr** Rockwood formation *(reddish calcareous shale with shaly sandstone and iron beds near the top)*
- **Scl** Clinch sandstone *(massive white sandstone)*
- **Sb** Bays formation *(red argillaceous sandstone and red, sandy, argillaceous limestone)*
- **Ssv** Sevier shale *(light-colored sandy shale, calcareous shale, and thin limestones, with local beds of marble near the base)*
- **Smc** Moccasin limestone *(red, green, and blue argillaceous limestone)*
- **St** Tellico sandstone *(bluish-gray calcareous sandstone and shale)*
- **Sc** Chickamauga limestone *(blue and gray shaly limestone and massive limestone with marble beds)*
- **Shl** Holston marble in Chickamauga limestone *(variegated marble lentils, chiefly reddish or gray)*
- **€Sk** Knox dolomite *(light and dark magnesian limestone with chert nodules)*

CAMBRIAN

- **€n** Nolichucky shale *(variegated calcareous shales and thin limestones)*
- **€m** Maryville limestone *(massive blue limestone)*
- **€c** Conasauga shale *(reddish calcareous shale with thin beds of limestone)* *(The Conasauga shale is divided into two or more parts by the development of limestone formations toward the northeast)*
- **€rg** Rogersville shale *(greenish clay shale with limestone layers)*
- **€rt** Rutledge limestone *(massive dark-blue limestone)*
- **€r** Rome formation *(red, green, and brown sandy shale)*
- **€rs** Sandstone lentils in Rome formation *(red, white, and brown sandstone)*

Faults

Sections