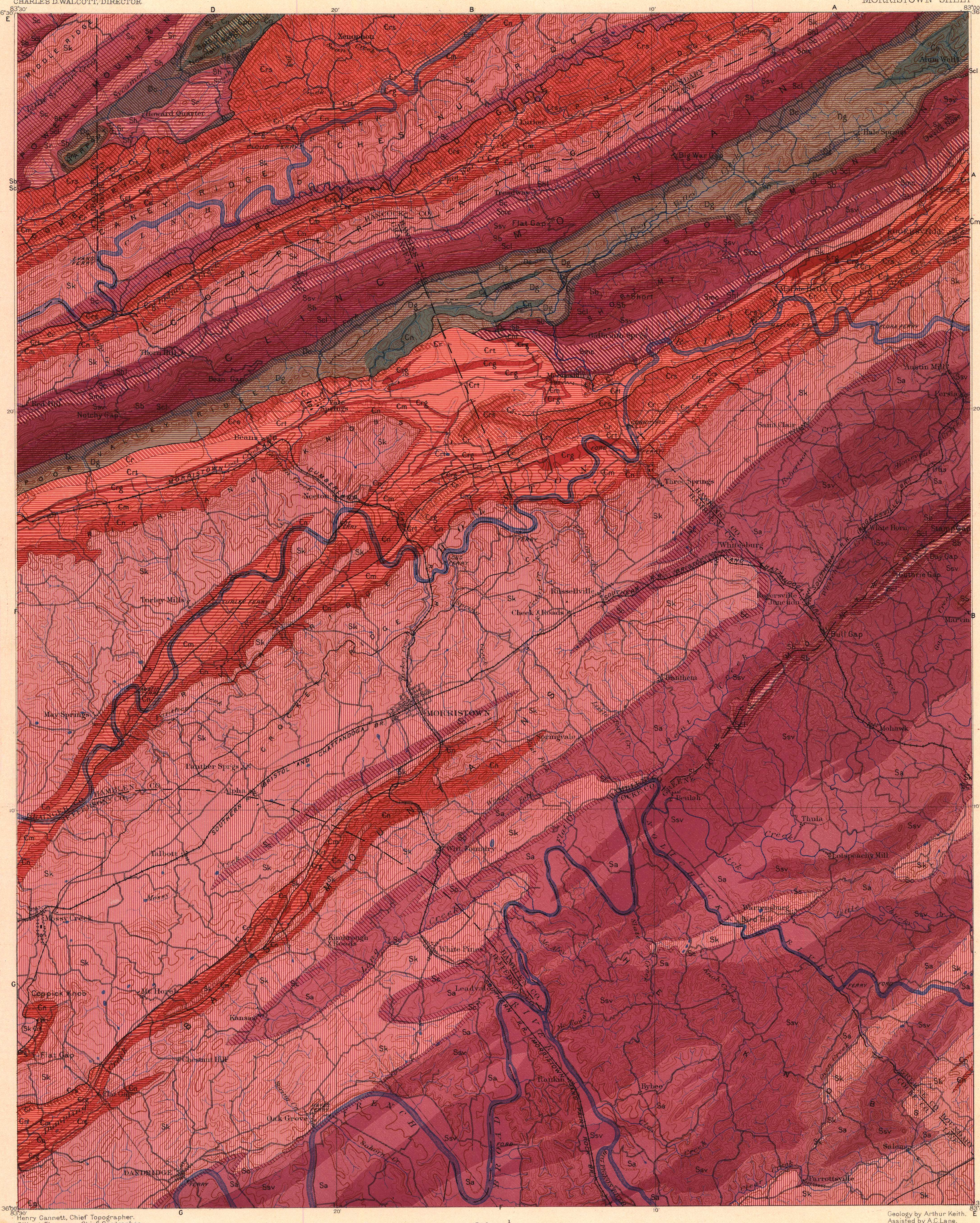
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

AREAL GEOLOGY

TENNESSEE
MORRISTOWN SHEET



Henry Gannett, Chief Topographer.
Gilbert Thompson, Chief Geographer.
Triangulation by W.C. Kerr and S.S. Gannett.
Topography by R.L. Longstreet.
Surveyed in 1890.

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 Jan. 1896.

Geology by Arthur Keith.
Assisted by A.C. Lane.
Surveyed in 1888-89-90-91.

LEGEND

SEDIMENTARY ROCKS

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

CARBONIFEROUS

- ▨ Cpn — Pennington shale *(sandstones with sandy and calcareous shales)*
- ▨ Cn — Newman limestone *(bluish, shaly and massive limestone)*

DEVONIAN

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

SILURIAN

- ▤ Sh — Hancock limestone *(massive and shaly, blue limestone)*
- ▤ Sr — Rockwood formation *(variegated, sandy shales and thin sandstones)*
- ▤ Scl — Clinch sandstone *(massive, white sandstone)*
- ▤ Sb — Bays sandstone *(red, calcareous and argillaceous sandstone)*
- ▨ Ssv — Sevier shale *(calcareous sandstone, sandy shale, calcareous shale, and limestone)*
- ▨ Sa — Athens shale *(light-blue, calcareous shale, with black shale at the base)*
- ▨ Smc — Moccasin limestone *(red and green, argillaceous limestone)*
- ▨ Sc — Chickamanga limestone *(blue and gray limestone with marble layers)*
- ▤ Shl — Holston marble
- ▥ Sk — Knox dolomite *(magnesian limestone with chert nodules)*

CAMBRIAN

- ▤ Cn — Nolichucky shale *(variegated, calcareous shales and thin limestones)*
- ▤ Cm — Maryville limestone *(massive, blue limestone)*
- ▤ Crg — Rogersville shale *(greenish clay-shale with limestone layers)*
- ▤ Crt — Rutledge limestone *(massive, dark-blue limestone)*
- ▨ Cr — Rome formation *(red, green, and brown sandy shale)*
- ▨ Crs — Lentils in Rome formation *(red, white, and brown sandstone)*

SPECIAL SYMBOLS

Faults

Sections