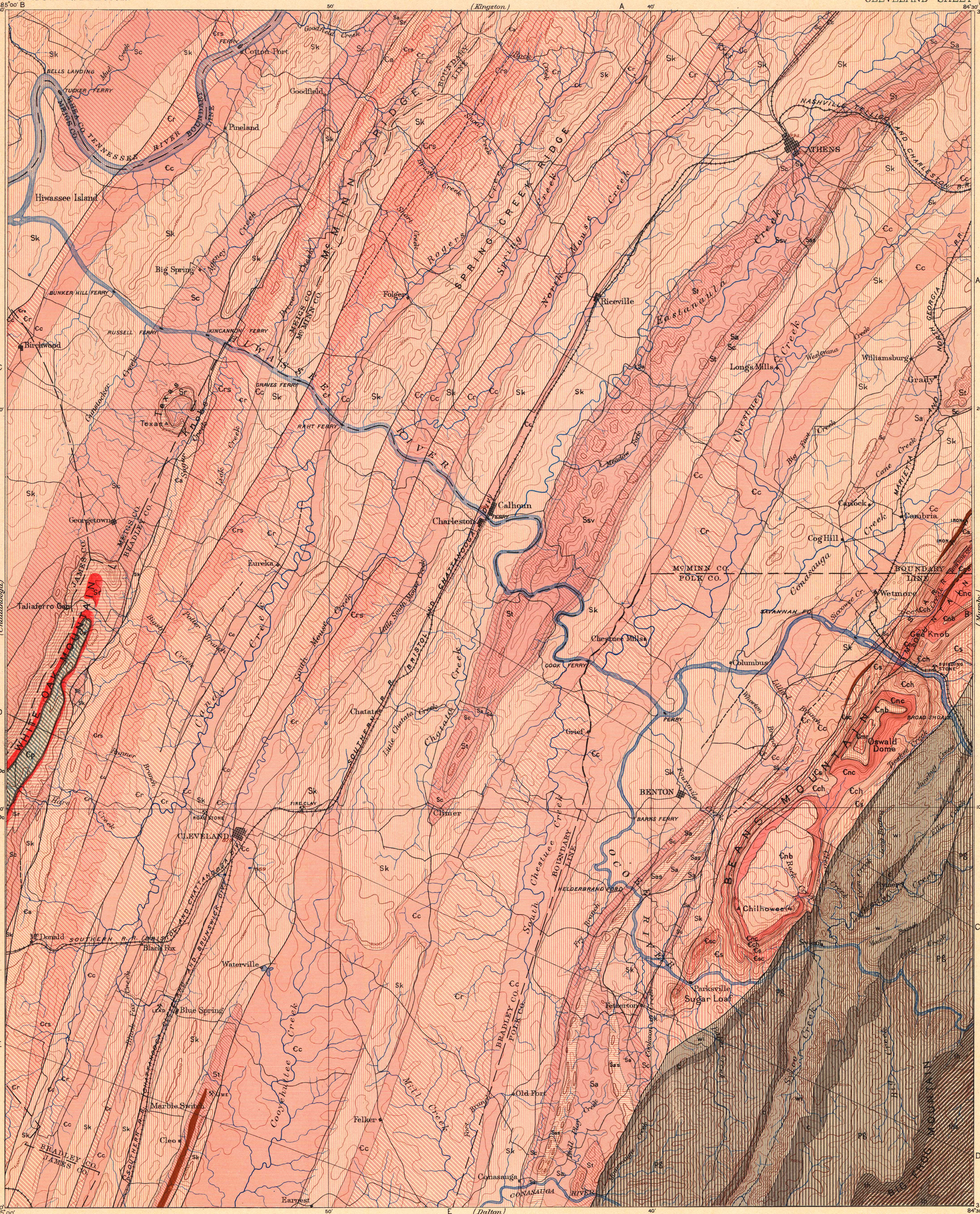
U.S. GEOLOGICAL SURVEY.
J.W. POWELL, DIRECTOR.

ECONOMIC GEOLOGY

TENNESSEE.
CLEVELAND SHEET



Henry Gannett, Chief Geographer.
Gilbert Thompson, Geographer in charge.
Triangulation by S. S. Gannett.
Topography by F. M. Pearson. Surveyed in 1884-5.
Topography by C. E. Cooke. Surveyed in 1891.

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 July 1895.

G. K. Gilbert, Chief Geologist.
Bailey Willis, Geologist in Charge.
Geology by C. Willard Hayes.
Assisted by M. R. Campbell.
Surveyed in 1889-90.

LEGEND

SEDIMENTARY ROCKS

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

DEVONIAN CARBONIFEROUS

- Cp — Fort Payne chert (interbedded chert and limestone)
- Dc — Chattanooga black shale (carbonaceous)

SILURIAN

- Sr — Rockwood formation (brown sandstone and shale)
- Ssv — Sevier shale (blue, calcareous and sandy shale)
- St — Tellico sandstone (gray or red, calcareous, ferruginous sandstone)
- Sa — Athens shale (blue calcareous shale)
- Sas — Lentil in Athens shale (coarse, white sandstone)
- Sc — Chickamauga limestone (blue, flaggy or mottled, argillaceous limestone)
- Sk — Knox dolomite (magnesian limestone with nodules of chert)

CAMBRIAN

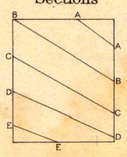
- Ꞓc — Connasauga shale (greenish clay-shale with beds of limestone)
- Ꞓr — Rome formation (brown or purple shale)
- Ꞓrs — Rome sandstone (purple, brown, or white sandstone in sandy shale)
- Ꞓa — Apison shale
- Ꞓmr — Murray shale (yellow sandy shale)
- Ꞓnb — Nebo sandstone (white quartzitic sandstone)
- Ꞓnc — Nichols shale (micaceous sandy shale)
- Ꞓch — Cochran conglomerate (quartzite, sandstone, and conglomerate)
- Ꞓs — Sandsuck shale (blue, calcareous shale)
- Ꞓsc — Starrs conglomerate (lentil in Sandsuck shale)

CHILHOWEE SERIES

OCOEE SERIES

- th — Thunderhead conglomerate (containing blue quartz and feldspar; the mass is schistose)
- ths — Thunderhead slate (interbedded in the conglomerate)
- pg — Pigeon slate (blue or black slate with beds of conglomerate, showing slaty cleavage)
- c — Citico conglomerate (ferruginous conglomerate, sandstone, and sandy shale, showing slaty cleavage)
- wi — Wilhite slate (blue slate with lentils of sandy limestone and conglomerate, showing slaty cleavage)

AGE UNKNOWN

Faults

Sections