

LEGEND

SEDIMENTARY ROCKS

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

Cpn

Pennington shale
(sandstone with sandy and calcareous shales)

Cn

Newman limestone
(blue, shaly and massive limestone)

Dg

Craininger shale
(grayish sandstone and shaly limestone)

Dc

Chattanooga shale
(carbonaceous black shale)

Sh

Hancock limestone
(massive and shaly blue limestone)

Sr

Rockwood formation
(interbedded sandy shales and thin sandstones)

ScI

Clinch sandstone
(massive, white sandstone)

Sb

Bays sandstone
(red, calcareous and argillaceous sandstone)

Ssv

Seyler shale
(calcareous sandstone, sandy shale, calcareous shale and limestone)

Sa

Athens shale
(light blue, calcareous shale with thin black shale at the base)

Smc

Moccasin limestone
(red and green argillaceous limestone)

Sc

Chickamauga limestone
(blue and gray limestone with marble layers)

SHI

Holston marble

Sk

Knox dolomite
(massive limestone with chert nodules)

Cn

Nicholsky shale
(interbedded calcareous shales and thin limestone)

Cm

Maryville limestone
(massive blue limestone)

Crg

Bogersville shale
(greenish clay-shale with limestone layers)

Crt

Rutledge limestone
(massive dark-blue limestone)

Cr

Home formation
(red, green, and brown sandy shale)

Crs

Lentils in Home formation
(red, white and brown sandstone)

SPECIAL SYMBOLS

Faults

Sections

Legend is continued on the left margin

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

ECONOMIC GEOLOGY

TENNESSEE MORRISTOWN SHEET

LEGEND

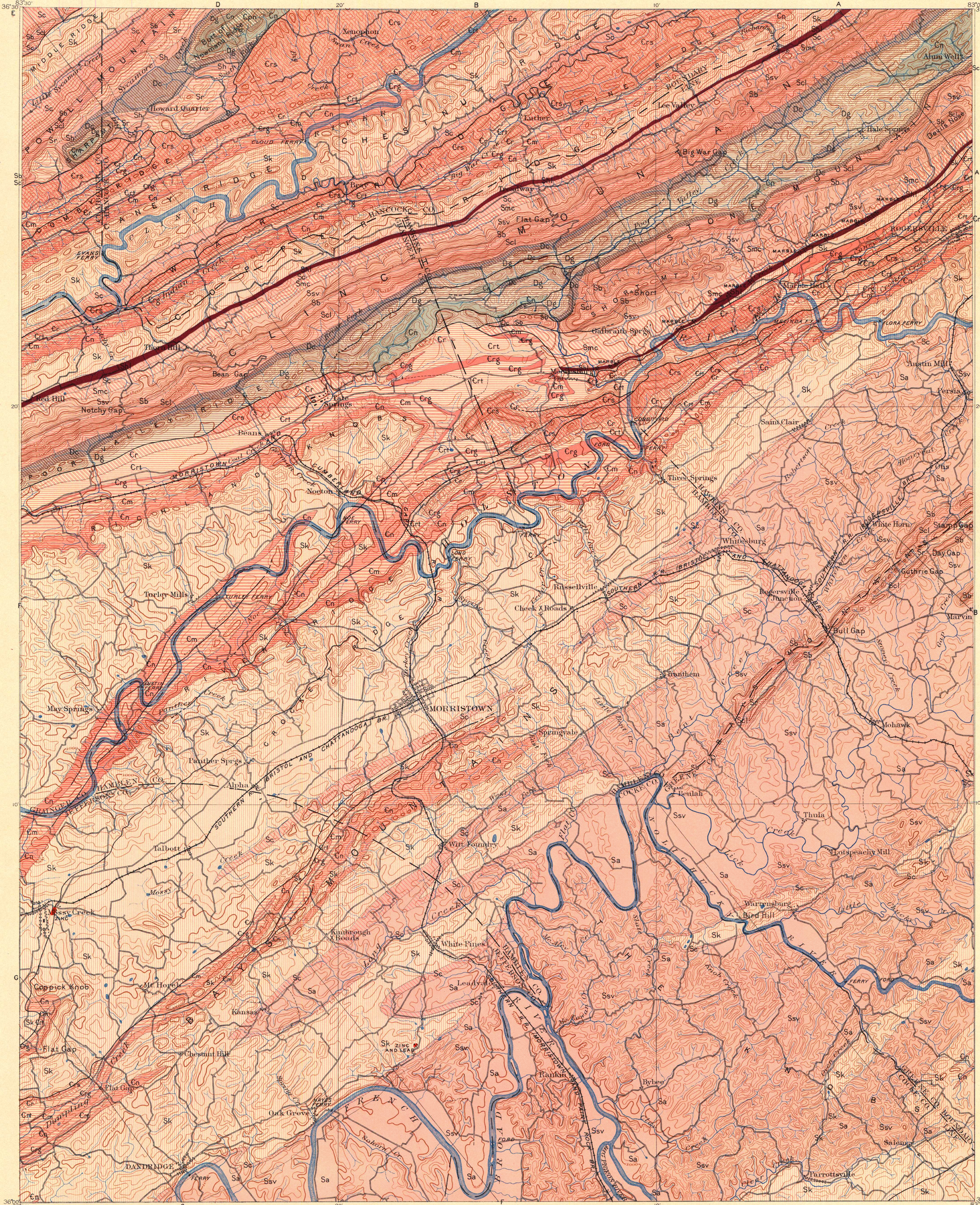
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Mines and quarries

Known productive formations

Variegated marble

Zinc and lead



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 1:25,000

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.