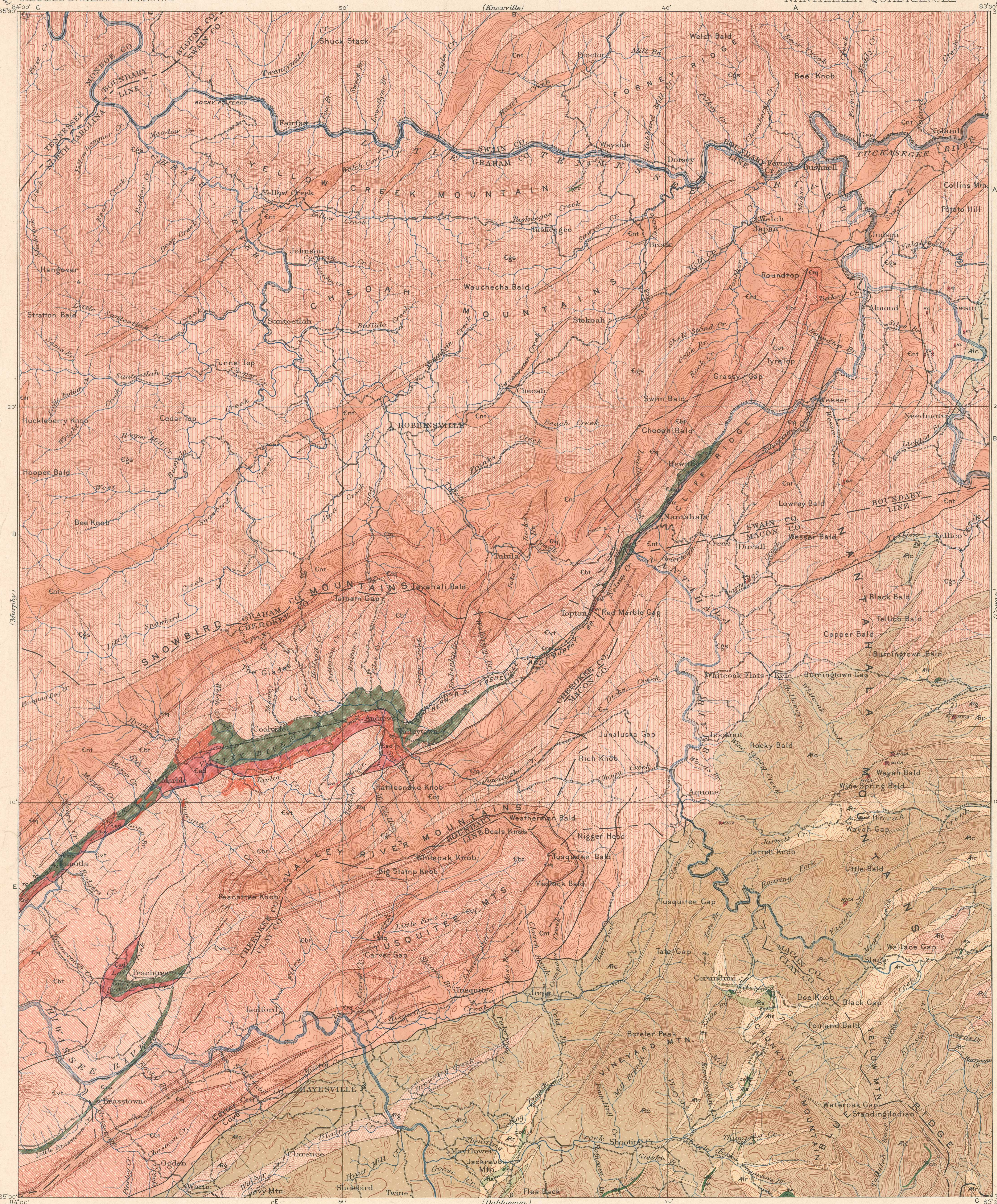
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

ECONOMIC GEOLOGY

NORTH CAROLINA–TENNESSEE
NANTAHALA QUADRANGLE



Henry Gannett, Chief Topographer.
Gilbert Thompson, Chief Geographer.
Triangulation by S.S.Gannett.
Topography by Chas.E.Cooke.
Surveyed in 1892.
Revised in 1904 by Arthur Keith.

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1902.

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 Oct 1906.

Geology by Arthur Keith,
assisted by H.B.Goodrich and H.S.Gale.
Surveyed in 1892, 1893, 1899, 1903, and 1904.

LEGEND

SEDIMENTARY ROCKS

(Areas of subaqueous deposits are shown by patterns of parallel lines, metamorphism is indicated by hachures combined with the line patterns)

CAMBRIAN

- €ny — **Nottely quartzite** *(white quartzite)*
- €ad — **Andrews schist** *(calcareous ottrelite-schist, with iron-ore beds)*
- €mp — **Murphy marble** *(white and blue marble)*
- €vt — **Valleytown formation** *(graywacke, garnet-and ottrelite-schist, and slate)*
- €bt — **Brasstown schist** *(blue and black banded ottrelite-schist and slate)*
- €tq — **Tusquitee quartzite** *(white quartzite)*
- €nt — **Nantahala slate** *(black slate, with garnet-staurolite-schist at base)*
- €gs — **Great Smoky conglomerate** *(conglomerate, coarse gray sandstone, and graywacke, with many beds of black slate and schist)*
- €hi — **Hiwassee slate** *(bluish-gray and banded argillaceous slate)*

IGNEOUS ROCKS

(Areas of igneous rocks are shown by patterns of triangles and rhombs; metamorphism is indicated by hachures)

ARCHEAN

- Ag — **Granite** *(granite and gneissoid granite)*
- As — **Soapstone, dunite, and serpentine**
- Ar — **Roan gneiss** *(hornblende-gneiss, hornblende-schist, and diorite)*

METAMORPHIC ROCKS OF UNKNOWN ORIGIN

(Areas of metamorphic rocks of unknown origin are shown by patterns of short dashes)

ARCHEAN

- Ac — **Carolina gneiss** *mica-gneiss and mica-schist*

Faults

Sections

C B A
A
B
D
E
E D C

⚒ *Mines and quarries*
x *Prospects*

Known productive areas

- *Gold-bearing gravels* *(on terraces and in bottom lands)*
- *Probably gold-bearing gravels* *(extension of gold-bearing terrace deposits)*
- GP — *Gold-bearing pyrite deposits*
- €ad BH — *Brown hematite* *(Andrews schist contains beds and scattered deposits of iron ore; lenses also in Valleytown schist)*
- TC — *Talc* *(lenses in Murphy marble)*
- €mp — *Marble* *(Murphy marble, white or blue banded)*
- CD — *Corundum-bearing rocks* *(veins in dunite and mica-gneiss)*
- SP — *Soapstone*
- KL — *Kaolin* *(decomposed pegmatite lenses)*