

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

ECONOMIC GEOLOGY SHEET

NORTH CAROLINA - TENNESSEE
CRANBERRY QUADRANGLE

LEGEND

Known productive formations

Soapstone

Csh

Limonite
(residual clay of Shady limestone contains irregular deposits of limonite or lower hematite)

Magnetite

Copper

Gold

LEGEND

SEDIMENTARY ROCKS
(Areas of sedimentary rocks are shown by patterns of parallel lines)

Cw

Watauga shale
(purple, reddish, and yellow shales with sandstone and limestone beds)

Csh

Shady limestone
(grayish limestone with chert)

Ce

Erwin quartzite
(white quartzite and sandstone)

Cht

Hampton shale
(black and gray shale with thin sandstone)

Cu

Unicoi formation
(white sandstone and quartzite with shale and conglomerate and a bed of amygdaloidal basalt)

IGNEOUS ROCKS
(Areas of igneous rocks are shown by patterns of triangles and rhombs. Metamorphism is indicated by numbers)

Jb

Bakersville gabbro
(massive gabbro and diabase)

Cab

Amygdaloidal basalt
(lava but uncrystallized in the Unicoi formation)

Amr

Metachyolite
(grayish metachyolite and mylonite porphyry)

Am

Flattop schist
(gray and black schist, probably altered sandstone rocks)

Am

Montezuma schist
(blue and green, epidote schist, probably altered sandstone and basalt and amygdaloidal basalt)

Al

Linville metadiabase
(altered greenish diabase and gabbro)

ANCIENT CRYSTALLINE ROCKS
(Areas of ancient rocks are shown by patterns of short dashes)

Rb

Beech granite
(coarse or porphyritic granitic, light reddish in color)

Rbr

Blowing Rock gneiss
(chiefly dark, coarse, porphyritic gneiss)

Rcb

Cranberry granite
(medium grained and granitic gneiss)

Rs

Soapstone
(with peridotite and pyroxenite more or less altered)

Rr

Roan gneiss
(chiefly hornblende gneiss and diorite)

Rc

Carolina gneiss
(chiefly microgneiss and microschist, includes other gneisses, granites, and diorite)

Faults

Mines and quarries

Prospects

Sections

Geology by Arthur Keith.
Assisted by H.B. Goodrich.
Surveyed in 1894, 96, 97, and 1900.

Legend is continued on the left margin.



H.M. Wilson, Geographer in charge.
Triangulation by W.C. Kerr and S.S. Gannett.
Topography by Hersey Munroe, W.L. Miller, and Albert Pike.
Surveyed in 1892 and 1897.

Scale 1:25,000

Contour interval 100 feet.

Datum is mean sea level.

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