

Preliminary Geologic Map of the Gold Hill Quadrangle  
North Carolina

by  
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EXPLANATION

U.S. Geological Survey  
OPEN FILE MAP  
This map is preliminary and has  
not been edited or reviewed for  
conformity with Geological Survey  
standards or nomenclature.

Qal

Flood-plain alluvium

In valley bottom; mainly silt and silty clay  
loam; fine sand deposits along Second  
Creek; too small to be shown along  
tributary streams

Rd

Diabase

Unmetamorphosed, fine- to medium-grained,  
dark gray to black; occurs as dikes

CAROLINA SLATE BELT

Pg

Metagabbro

Foliated, fine- to medium- grained, green-  
black; weathers to gray-green and brown-  
yellow; mainly chlorite-epidote-plagio-  
clase-tremolite; commonly in low, rounded  
ridges or rounded brown-yellow boulders

schist with interbeds and lenses of fine-  
grained, green to greenish-gray chlorite-  
plagioclase-epidote schist derived from  
basic volcanic rocks; interbeds and lenses  
of foliated, light-colored rhyolitic to  
dacitic tuff, crystal lapilli tuff, and  
and crystal-lithic lapilli tuff; in places,  
lithic fragments and crystals elongated  
parallel to foliation

Ocmmb, fine-grained, foliated, green to  
greenish-gray; derived from andesitic to  
basaltic tuff, tuff breccia and flows; in  
places, lithic fragments elongated parallel  
to foliation

CHARLOTTE BELT

Pm

Quartz monzonite

Medium-grained, gray, foliated and, in places  
schistose granitic rock; outcrops rare;  
mapped on distinctive sandy soil; cut by  
numerous fine- to medium-grained, foliated,  
and, in places, schistose, dark colored,  
intermediate to basic dikes

Pgd

Meta-diorite-gabbro complex

Fine- to coarse-grained, generally massive,  
medium to dark greenish-gray; outcrops  
rare; contains irregular, light-colored  
granitic bodies; cut by numerous fine- to  
medium-grained, foliated, and, in places,  
schistose dark colored, intermediate to  
basic dikes

Anticline

Showing direction of plunge and crest line,  
approximately located

PLANAR AND LINEAR FEATURES  
(symbols joined at point of observation)

inclined vertical  
Strike and dip of beds

inclined vertical  
Strike and dip of foliation

inclined vertical  
Strike and dip of cleavage

Intersection of bedding and cleavage and plunge  
of resulting lineation

Intersection of bedding and cleavage and plunge  
of resulting lineation

Omf

Millingsport Formation

Omf, Floyd Church Member. Light gray to  
medium dark gray siltstone and argillite;  
weathers to shades of dusky yellow, gray,  
olive, and brown; beds commonly 3-18 inches  
thick; fine laminae in places

Omf, interbeds of rhyolitic to dacitic tuff,  
crystal lapilli tuff, and crystal-lithic  
lapilli tuff

Ocf  
Ocmmb  
Ocm

Cid Formation

Ocf, Flat Swamp Member. Generally fine-  
grained to aphanitic, gray to blue-gray;  
weathers to light gray, yellow-gray, pink,  
cream, and chalky-white; massive and blocky  
to thin bedded with fine laminae in places;  
contains interbeds of volcanoclastic argillite  
and siltstone, thin andesitic to basaltic tuff  
and flows, and related volcanoclastic rocks

Ocfr, rhyolitic to dacitic crystal lapilli tuff  
and crystal-lithic lapilli tuff

Ocm, Mudstone member. Fine-grained, gray to  
blue-gray argillite and siltstone; weathers  
to olive-gray, green-gray; massive to thin-  
bedded with fine, persistent laminae in  
places; contains interbeds of rhyolitic to  
dacitic tuff, crystal lapilli tuff, and  
crystal-lithic lapilli tuff

Ocmr, rhyolitic to dacitic crystal lapilli tuff

Ocm, mainly slate, phyllite, and schist within  
Gold Hill-Silver Hill shear zone; fine-  
grained, closely cleaved, gray, white, pale  
green, tan, pink, lavender quartz-sericitic  
muscovite-plagioclase slate, phyllite and

Pb

Metabasalt flows, tuff, and tuff breccia

Mainly fine-grained, schistose to massive, dark  
gray-green; largely chlorite-epidote-plagioclase-  
amphibole; some quartz-sericitic muscovite  
schist and phyllite, and foliated meta-felsic  
tuff; cut by schistose leucogranitic rocks,  
intermediate to basic dikes, and quartz-epidote  
veins; possible equivalent of Cid Formation

Pu

Undifferentiated metamorphic rocks

Outcrops and float rare; mainly soil-clay loam,  
sandy loam, and clay probably derived from  
quartz-sericitic muscovite schist and phyllite;  
and chlorite-epidote-plagioclase schist;  
intimately associated with foliated, meta-  
igneous rock including coarse-grained  
leuco-granitic rocks, diorite, and gabbro;  
cut by a complex of intermediate to basic dikes  
and quartz-epidote veins; possible equivalent  
of Cid Formation

Contact

Dashed where approximately located; dotted where  
concealed

U  
D

Fault, approximately located  
U, upthrown side; D, downthrown side

Clay pit

Clay used for brick manufacture

Quarry

Crushed rock for road metal, aggregate and  
in manufacture of lightweight aggregate

Inactive gold mines

Gold Hill Copper Company

1. Randolph shaft
2. Center shaft
3. South shaft
4. Miller shaft
5. Barnhardt shaft

6. Southern Copper Company
7. Old Field
8. Honeycutt
9. Union Copper Company
10. Dutch Creek
11. Gold Knob

Shaft

Prospect pit

Quartz vein

M(200)  
R29a  
no. 68-264  
sheet  
2 of 2  
C.1

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