



- EXPLANATION**
- Carbonate-chlorite schist  
*Light green-gray quartz-chlorite schist with abundant ankerite. Possibly altered diorite*
  - Diorite  
*Medium-gray coarse-grained massive to schistose diorite*
  - Phyllite and schist of the Great Smoky Group  
*Green, blue-gray to black phyllite and fine-grained schist; thin beds of feldspathic sandstone are common*
  - Feldspathic sandstone of the Great Smoky Group  
*Blue-gray to gray fine- to coarse-grained feldspathic sandstone; thin beds of phyllite and schist are common*
  - Contact**  
*Dashed where gradational or inferred*
  - Zone in which rocks are considerably sheared**
  - Plunge of fold axes**
  - Strike and dip of beds**
  - Strike of vertical beds**
  - Strike and dip of foliation**
  - Strike of vertical foliation**
  - Strike and dip of foliation and plunge of lineation**
  - Strike and dip of slip-cleavage**
  - Strike and dip of joint**
  - Strike of vertical joint**
  - Prospect**
  - Mine**
  - Elevation of Fontana Lake**
  - Symbols shown on sections**
  - Bedding**
  - Foliation, showing approximate dip; closely spaced in zone of strong shearing**
  - Slip cleavage, slightly warping and displacing foliation**
  - Copper-zinc ore deposits, showing explored part**

PALEOZOIC  
PRECAMBRIAN

Topographic base compiled north of 35°30' from map of Great Smoky Mountain National Park, scale 1:62,500, surveyed 1927-31, and south of 35°30' from Fontana and Proctor quadrangle maps, scale 1:24,000, surveyed 1940

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—62163

Geology by G. H. Espenshade, T. W. Amsden, J. H. Eric, and M. H. Staatz, 1943

**GEOLOGIC MAP AND SECTIONS OF THE SWAIN COUNTY COPPER DISTRICT, NORTH CAROLINA**

