

Description of Map Units



Digital representation by P.A. Carpenter III

Geology mapped 1981-1982.  
 Released April 1999.

UNCONSOLIDATED SEDIMENTARY ROCKS

**Qal** Alluvium - White to light-gray, unconsolidated clay, silt, sand, and gravel associated with floodplains.

INTRUSIVE ROCKS

**Jd** Diabase - black to greenish-black, fine-grained diabase dikes.

**da** Dacite - black to greenish-black, fine-grained dacite dikes. Contains plagioclase, quartz, and magnetite. Has flow texture, locally.

**di** Diorite - medium-gray to pink, fine-grained dike. Contains plagioclase and hornblende with minor quartz, chlorite, epidote, and opaque minerals.

**an** Andesite - dark-brown to gray to black, porphyritic dike. Composed of euhedral crystals of hornblende and plagioclase in a dense groundmass.

**gr** Granodiorite - gray to pink, medium-grained, equigranular rock. Composed of quartz, sericitized plagioclase, chlorite, and myrmekite.

**gb** Gabbro - medium- to dark-green, coarse-grained rock. Composed of amphibole, epidote, chlorite, and urtinite.

METAVOLCANIC AND METASEDIMENTARY ROCKS

Uwharrie Formation

**Zup** Porphyritic felsite - light-gray, dense, rhyodacitic volcanic rock with phenocrysts of quartz and plagioclase, locally flow layered and spherulitic. Includes minor aphanitic felsite and felsic lapilli tuff. (Zup of Seiders, 1981)

**Zuff** Felsic lapilli tuff - light-gray to greenish gray lapilli tuff and tuff breccia; contains clasts of subrounded to subangular, aphanitic, white rock fragments. Includes minor porphyritic felsite, felsite, and felsic crystal tuff. (Zuff of Seiders, 1981)

**Zufs** Felsite - light-gray, aphanitic, rhyodacitic to dacitic tuff; locally flow layered and spherulitic; locally with phenocrysts of plagioclase and quartz. Includes interbeds of felsic crystal tuff and felsic lapilli tuff. (Zuf of Seiders, 1981)

**Zamd** Aaron Formation  
 Mudstone - tan, light-gray, and greenish-gray, laminated to thin bedded mudstone. Interbedded with fine-grained to coarse-grained, bedded epiclastic and volcanoclastic rock.

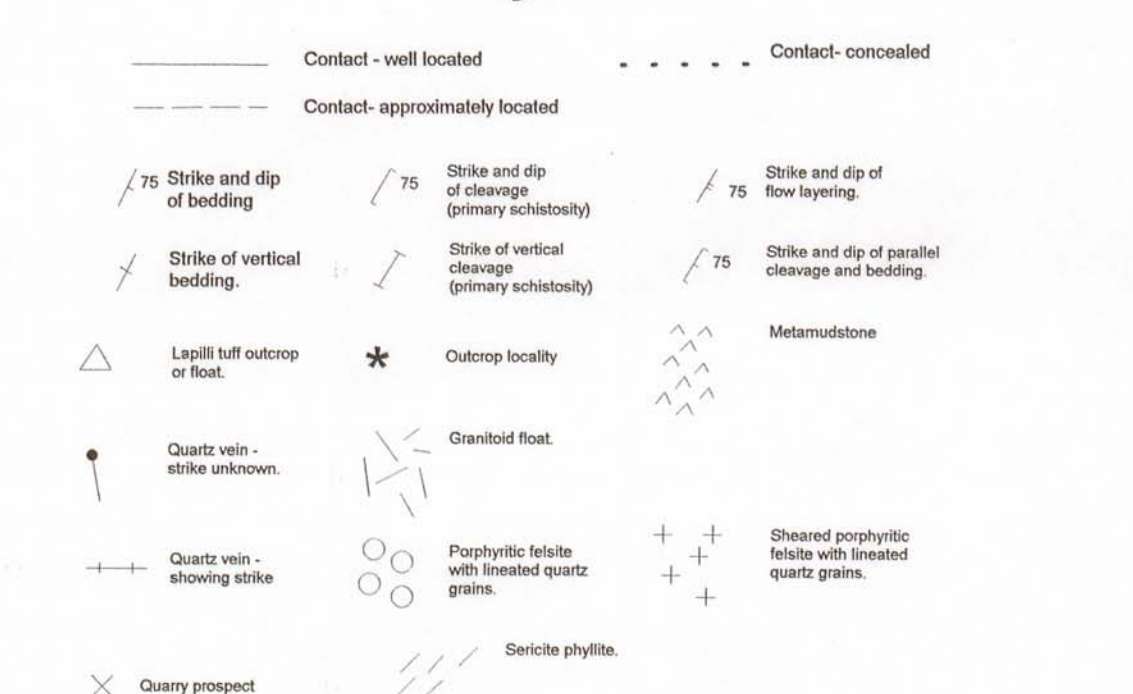
**Zhft Zhd** Hyco Formation  
 Intermediate to felsic crystal tuff and lapilli tuff - white, light-gray or greenish-gray andesitic and dacitic crystal tuff and medium-gray to greenish-gray lapilli tuff containing mostly white, aphanitic rock fragments. Includes interbeds of fine tuff and coarse tuff as well as minor rhyodacitic flow and tuff, lufaceous mudstone, and porphyritic felsite. Zhd - small bodies of dacitic crystal tuff.

**Zhpt** Phyllitic felsic tuff and lapilli tuff - white, gray, and greenish-gray phyllitic tuff and lapilli tuff. Includes silver-gray, quartzose sericite phyllonite (sheared porphyritic felsite?), sericite phyllite, chlorite phyllite, and phyllitic andesitic crystal tuff and lapilli tuff.

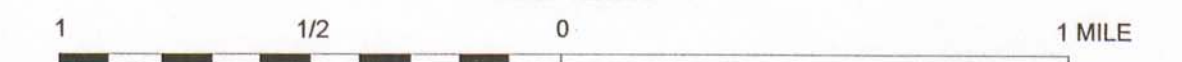
**Zhp** Porphyritic felsite - light-gray, dense, rhyodacitic volcanic rock with phenocrysts of quartz and plagioclase, locally flow layered and spherulitic. Includes minor aphanitic felsite and felsic lapilli tuff.

**Zhqs** Quartzose Sericite Phyllite - light-gray phyllite; locally contains pyrite; commonly iron oxide-stained where weathered. Pyrophyllite locally present. Probable hydrothermally altered felsic volcanic rock.

Symbols



SCALE 1:24000



Reference Cited

Seiders, V. M., 1981, Geologic map of the Asheboro, North Carolina, and adjacent areas: U. S. Geological Survey Miscellaneous Investigations Map I-1314.

BEDROCK GEOLOGIC MAP OF THE ERECT 7.5-MINUTE QUADRANGLE, RANDOLPH COUNTY, NORTH CAROLINA

By  
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1999

