

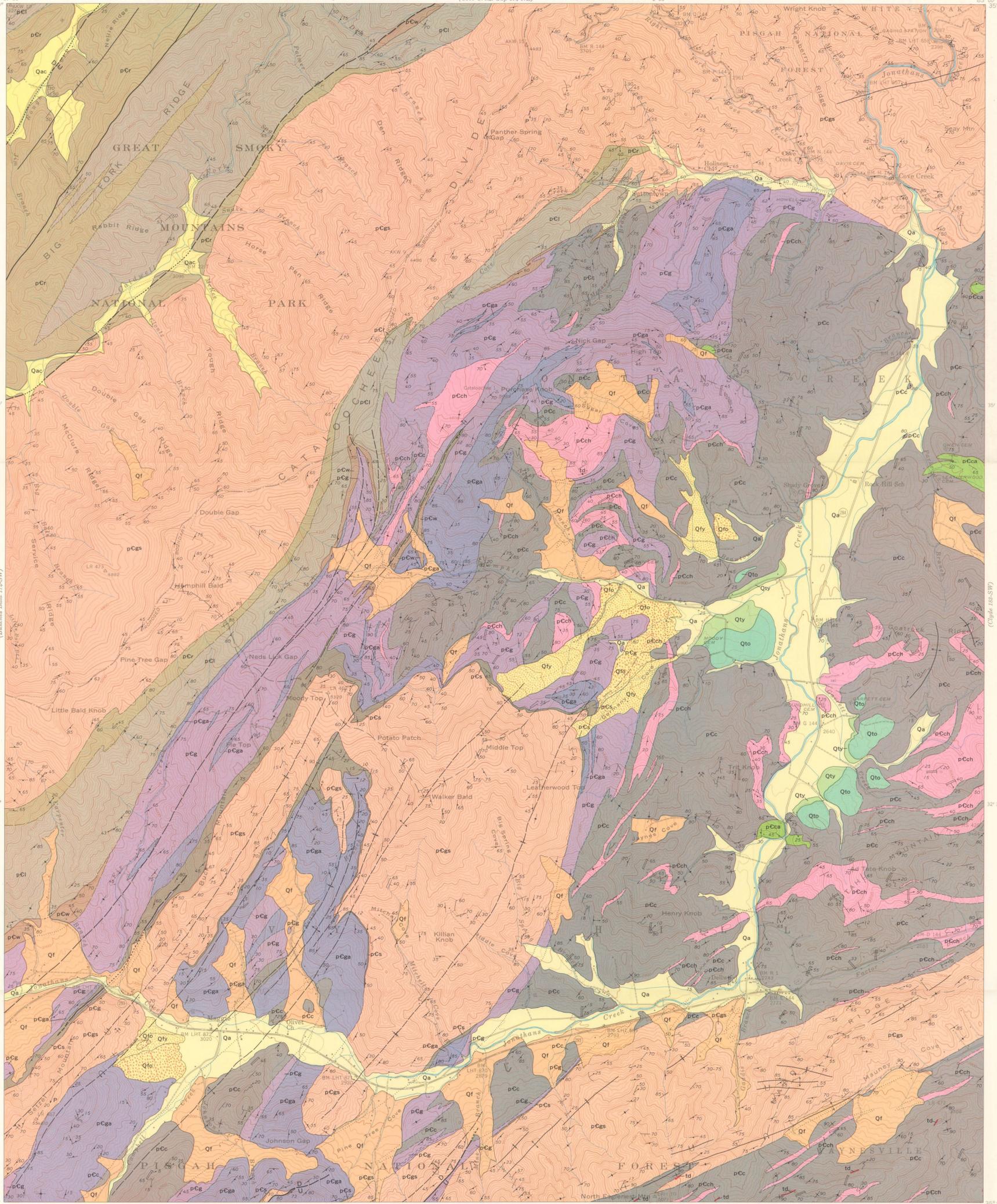
EXPLANATION

- Qa
Alluvium
 - Qac
Alluvium and colluvium
 - Qfy
 Qto
Alluvial-colluvial fan deposits, undifferentiated
Qfy, younger; Qto, older
 - Qty
 Qto
Terrace deposits
Qty, younger; Qto, older
 - td
Trondhjemite dike
Light-gray, medium- to fine-grained
 - pCgs
Great Smoky group, undifferentiated
Thick- and thin-bedded metasediments and metaconglomerate with some graded beds; mica schist and mica gneiss with thin beds of calc-silicate granofels
 - pCr
Roaring Fork formation
Thin-bedded dark crossbedded metasediments with subordinate mica schist. Thin layers and lenses of calc-silicate granofels in upper part
 - pCl
Longarm quartzite
Light-colored medium- to thick-bedded, cross-bedded feldspathic quartzite; subordinate dark biotitic metasediments abundant toward top; arkosic conglomerate locally present at base
 - pCs
Snowbird group undifferentiated
 - pCw
Wading Branch formation
Muscovite phyllite and schist, locally mica gneiss
- UNCONFORMITY
- pCga
 pCg
Plutonic rocks
Augen gneiss, pCga, and felsen and granitoid gneiss, pCg, varying in composition from quartz-diorite to granite
 - pCch
 pCca
Carolina gneiss
pCc, layered quartzose, muscovitic, and biotitic gneisses with minor mica schist. pCch, layered hornblende-biotite and biotite-hornblende gneisses, and minor calc-silicate granofels and amphibolite. pCca, amphibolite

QUATERNARY

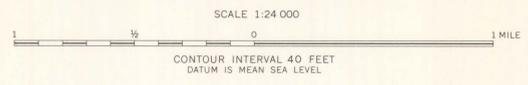
PALEOZOIC

PRECAMBRIAN



- Contact
Long dashes where inferred or gradational; short dashes where inferred or gradational; dots where concealed
- Fault
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side
- Thrust fault
Dashed where approximately located; dotted where concealed. T, upper plate
- Anticline
Showing trace of axial plane. Dashed where location is generalized
- Overturned anticline
Showing trace of axial plane and direction of dip of limbs. Dashed where location is generalized
- Syncline
- Overturned syncline
- Mylonite or shear zone
- Strike and dip of beds
- Strike and dip of overturned beds
- Strike and dip of vertical beds
- Strike and dip of beds and plunge of intersection of bedding with another planar structure
- Strike and dip of foliation
- Strike and dip of vertical foliation
- Horizontal foliation
- Strike and dip of foliation and plunge of intersection of foliation with another planar structure
- Strike and dip of slip cleavage
- Strike of vertical slip cleavage
- Strike and dip of slip cleavage and plunge of fold axes
- Strike and dip of axial planes of minor folds in the basement complex
- Strike and dip of axial planes of minor folds and plunge of fold axes in the basement complex
- Strike of vertical axial planes of minor folds in the basement complex
- Plunge of intersection of two planar structures
P, pebble lineation
- Horizontal axes of minor folds or intersection of two planar structures
- Plunge of axes of minor folds of foliation and compositional layering. Pattern indicates plan of fold
- Plunge of axes of minor folds of foliation where no compositional layering exists. Pattern indicates plan of fold
- Prospect pit in pegmatite

GEOLOGIC MAP OF THE DELLWOOD QUADRANGLE, EASTERN GREAT SMOKY MOUNTAINS
NORTH CAROLINA



Base map by Topographic Division
U. S. Geological Survey

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10370
Geology mapped by R. Goldsmith
and J. B. Hadley. Surveyed in 1952-54