GEOLOGIC MAP OF MORGANTON QUADRANGLE, N.C.

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U.S. GEOLOGICAL SURVEY, OPEN FILE

EXPLANATION

(A) Cambrian carbonate rocks:
Ca
Shaly marl (Lower Cambrian)

(B) Cambrian siliceous rocks:
Cebu
Erwin quartzite, Hampton shale, and Unicoi formation (Lower Cambrian)

(C) Igneous rocks:

1) Dike rocks (Triassic)
Av
Linville metavolcanics and Flatrock schist (Algonkian)

Alb
Cranberry, Henderson and other granite (Archean) (includes small areas of Roto-granite).

(D) Neogene rocks:

Alk
Carolina gneiss (Archean)

Alb
Blowing Rock granite (Archean)

Fault

Note—Field surveys were made by Arthur Keith in the Morganton quadrangle in the years 1905, 1909, 1910, 1911, and 1917. During the last year Keith was assisted by D. B. Sterrett who investigated the gold-bearing placers and manganiferous granites in the south part of the quadrangle. Traverse sheets available in the Geological Survey files show complete coverage of the quadrangle. The present map, which is based on these surveys, appears to be a generalization by Keith of a more detailed map not at present available. Contacts shown were accurately located, but generalization was accomplished by grouping the rock units into four categories, which are indicated by the letters A, B, C, and D on the explanation above. Subdivision of these categories has been made by the editor on the basis of units mapped by Keith in the Cranberry and Mount Mitchell folios, which adjoin the Morganton quadrangle on the north and west. The classification used in the explanation is that in common use at the time of publication of the folios, but does not necessarily reflect accepted present usage.

Geology by Arthur Keith and D. B. Sterrett; edited by Phillip B. King.