Bedrock Geologic Map of the High Bridge Quadrangle
Hunterdon and Warren Counties, New Jersey
by
Donald H. Monteverde, Richard A. Volkert and Richard F. Dalton
2015

INTRODUCTION

Folds in the Paleozoic rocks formed during the Taconian and Alleghanian orogenies at about 450 million years ago and 350 million years ago, respectively (Volkert et al., 1996). These orogenies resulted in the formation of the Appalachian mountains. The fold axes trend generally east-southeast to east-northeast, and the fold limbs are approximately parallel to the strike of the Paleozoic rocks. The fold axes are truncated to the southwest in the Riegelsville quadrangle (Ratcliffe and Burton, 1985) and to the south in the Bound Brook quadrangle (Volkert et al., 1996).

Granitic rocks are widely distributed in the map area. They consist of hornblende granite (Mesoproterozoic) – Tan- or buff-weathering, pinkish-gray or gray, medium-grained and locally coarse-grained. Contains thin, conformable layers of amphibolite and mafic- to ultramafic rocks. Contains thin mafic layers or schlieren having the composition of amphibolite. Contains thin mafic layers or schlieren having the composition of amphibolite.

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Other Rocks

Riverside Formation (Upper Cambrian) – Medium-gray to light-gray, fine-grained sandstone and siltstone. Contains thin, conformable layers of amphibolite and mafic- to ultramafic rocks. Contains thin mafic layers or schlieren having the composition of amphibolite. Contains thin mafic layers or schlieren having the composition of amphibolite.

REFERENCES CITED AND USED IN CONSTRUCTION OF MAP


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