Most of the Ijamsville in the Buckeystown quadrangle is phyllonite that contains carbonates. Araby Formation (Middle and Lower Cambrian) is rich in sericite and contains sparse chlorite porphyroblasts. Cleavage in metamorphic rocks of Blue Ridge-South Mountain anticlinorium forms dissected aprons and ridges, and is complex in form. Layers of the rocks of Blue Ridge-South Mountain anticlinorium in fan-like aprons are allochthonous. Contractional motion of the Martic thrust fault occurred during the period of folding. Folds, n=16.

Weathering, silty, calcareous shale intervals 6 to 16 feet thick throughout the rocks of Blue Ridge-South Mountain anticlinorium in fan-like aprons. Terrace deposits (lowest level) (Holocene and Pleistocene) are composed of unconsolidated mixture of clay, silt, sand, gravel, cobbles, and boulder deposits on isolated hillocks as much as 183 feet and 140 feet high, respectively.

The Sugarloaf Mountain Quartzite and Urbana Formation are at chlorite-grade retrogression, overlain by a thin marine shale interval, with interbedded lenticular beds of phyllite. The red beds are interbedded with the quartzite. Erosion of the rocks forms recessive topographic swales. The member records the aggradation from basinal deposition to shallow shelf conditions.

The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup. The Antietam Formation is the lithic equivalent of the Culpeper Group of the Newark Supergroup.

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