

EXPLANATION

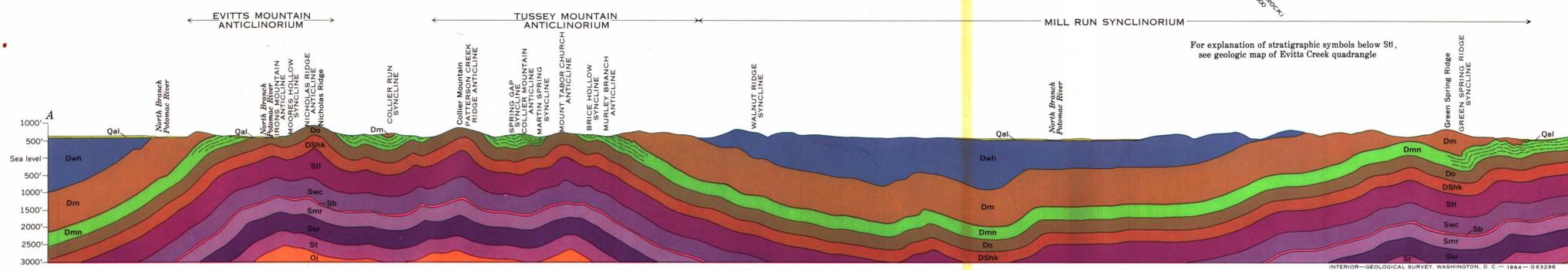
- | | | |
|-----------------|--|------------|
| Recent | | QUATERNARY |
| | Qal | |
| | Alluvium
Clay, silt, sand, and gravel flood-plain deposits | |
| Upper Devonian | | DEVONIAN |
| | Dwh | |
| | Chemung(?) Formation, Woodmont Shale, and Harrell Shale, undivided
Largely medium-gray to olive-gray siltstone and fine-grained quartz sandstone intercalated in medium-olive-gray silty shale; Chemung(?) Formation is at top, Woodmont Shale is intermediate, and Harrell Shale is at base. Grayish-black shale in the basal part of the Harrell near Cumberland is the Burkett Black Shale Member | |
| Middle Devonian | | |
| | Dm | |
| | Mahantango Formation
Fossiliferous medium-gray silty mudrock and siltstone in the upper half; dark-gray silty shale and mudrock in the lower half; calcareous concretions locally abundant in the upper part | |
| Lower Devonian | | |
| | Dmn | |
| | Marcellus Shale and Needmore Shale, undivided
Marcellus Shale, soft black shale containing some medium-gray calcareous shale and limestone septaria; Needmore Shale, soft olive-gray and light-greenish-gray calcareous shale and mudrock containing layers of argillaceous limestone, calcareous concretions, and much black shale in the lower part | |
| Upper Silurian | | SILURIAN |
| | Do | |
| | Oriskany Group, undivided
Ridgely Sandstone, resistant calcareous quartz sandstone containing layers of quartz-pebble conglomerate; Shriver Chert, intercalated calcareous siltstone, dark-gray siliceous limestone, and dark-gray nodular chert | |
| | | |
| | Dshk | |
| | Helderberg Group (Devonian) and Keyser Limestone (Silurian and Devonian(?)), undivided
Mandata Formation, dark-gray calcareous shale at top; New Scotland Limestone, fossiliferous medium-dark-gray limestone and light-gray to white chert; Coeymans Limestone, massively bedded dark-gray crinoidal limestone; Keyser Limestone, very fossiliferous cobbly weathering elastic limestone containing nodules of dark-gray chert | |
| | | |
| | Stl | |
| | Tonoloway Limestone
Dark- to medium-gray thin-bedded limestone characteristically banded by laminae of quartz silt; sparingly fossiliferous | |

- Contact
Solid within 1/4 mile of well established point. Dashed where approximately located; dotted where concealed
- Strike and dip of beds
- Strike of vertical beds
- Horizontal beds
- Anticline
Showing crest line and plunge. Dashed where approximately located; dotted where concealed
- Syncline
Showing trough line and plunge. Dashed where approximately located; dotted where concealed



Base by U.S. Geological Survey, 1951

Geology mapped by George W. Colton, 1955-1957



For explanation of stratigraphic symbols below Stl, see geologic map of Evitts Creek quadrangle

GEOLOGIC MAP AND SECTION OF THE PATTERSONS CREEK QUADRANGLE, MARYLAND AND WEST VIRGINIA

