COMMONWEALTH OF VIRGINIA
DEPARTMENT OF MINES, MINERALS AND ENERGY
DIVISION OF MINERAL RESOURCES

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GEOLOGIC MAP OF THE VIRGINIA PORTION
OF THE PETERSTOWN QUADRANGLE

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Geology by T. M. Gathright II and E. K. Rader
2001

KEY

CONTACTS

Solid where exposed or approximate, dotted where covered. Surficial deposits are depicted using scratch contacts.

FAULTS

Solid where exposed or approximate, dotted where covered. T on the upper plate, tick marks indicate dip direction of fault plane.

FOLDS

Overturned syncline

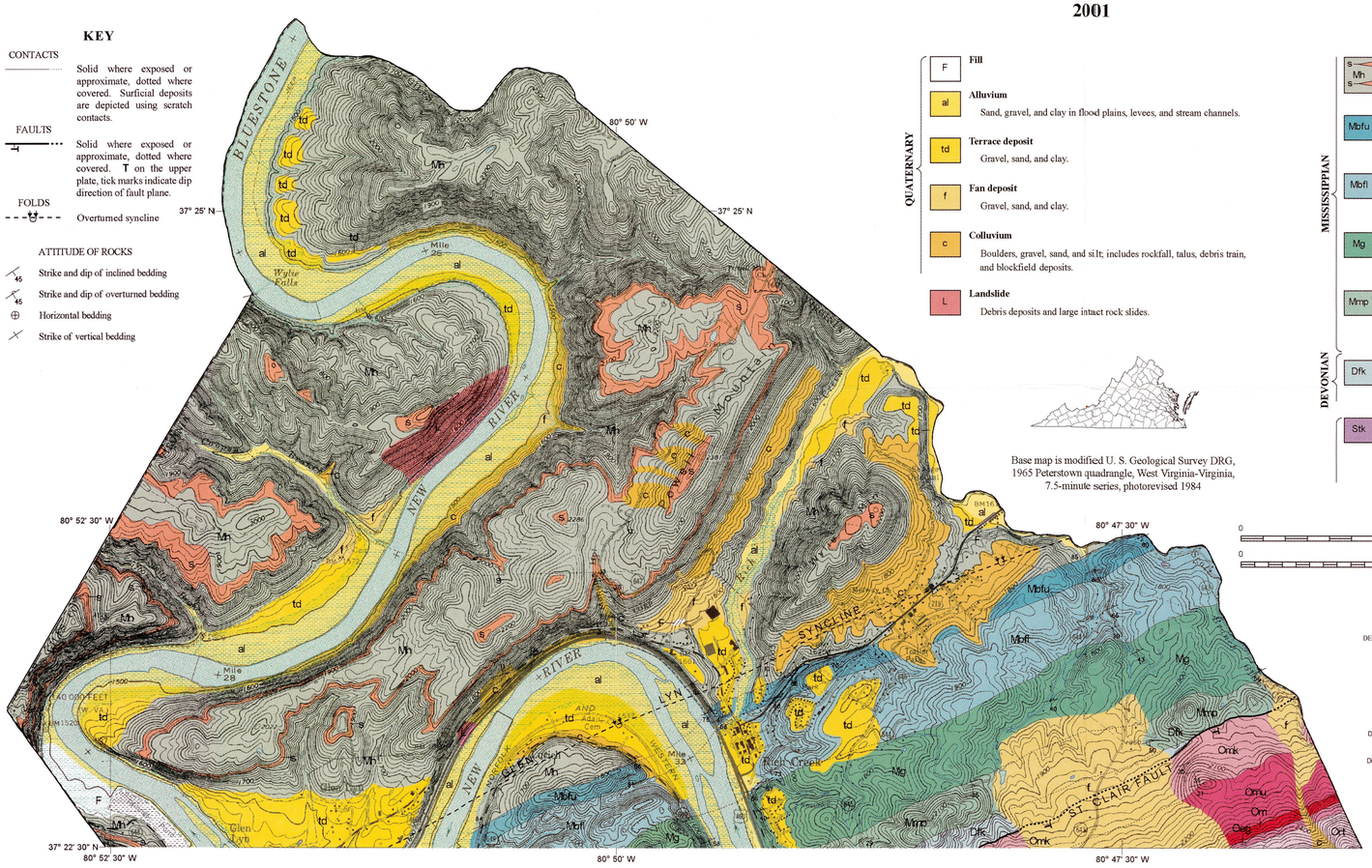
ATTITUDE OF ROCKS

Strike and dip of inclined bedding

Strike and dip of overturned bedding

Horizontal bedding

Strike of vertical bedding



EXPLANATION

QUATERNARY

F — **Fill**

al — **Alluvium**
Sand, gravel, and clay in flood plains, levees, and stream channels.

td — **Terrace deposit**
Gravel, sand, and clay.

f — **Fan deposit**
Gravel, sand, and clay.

c — **Colluvium**
Boulders, gravel, sand, and silt; includes rockfall, talus, debris train, and blockfield deposits.

L — **Landslide**
Debris deposits and large intact rock slides.

MISSISSIPPIAN

s, Mh, s — **Hinton Formation**
Gray, green, and red shale, siltstone, mudstone, and dark-gray to white sandstone (s); thickness: about 600 feet.

Mbfu — **Bluefield Formation, upper member**
Gray to green shale with interbedded sandstone and siltstone; thickness: about 800 feet.

Mbfl — **Bluefield Formation, lower member**
Dark-gray, argillaceous limestone and calcareous shale; fossiliferous; thickness: about 600 feet.

Mg — **Greenbrier Formation**
Gray limestone with oolitic beds, bedded black chert, thin shale, and siltstone layers; fossiliferous; thickness: about 1000 feet.

Mmp — **Maccrady and Price Formations, undivided**
Maccrady Formation: reddish-brown shale, mudstone, and siltstone; thickness: 20 to 30 feet. **Price Formation:** feldspathic and micaceous sandstone and conglomerate with thin shale layers; thickness: 200 to 300 feet.

DEVONIAN

Dfk — **Foreknobs Formation**
Thick-bedded, fossiliferous sandstone, siltstone, and shale; estimated thickness: 200 to 300 feet.

Stk — **Tonoloway Limestone and Keefer Sandstone, undivided**
Tonoloway Limestone: laminated limestone with thin interbedded calcareous shale and siltstone, poorly exposed; estimated thickness: 25 to 40 feet. **Keefer Sandstone:** light-gray sandstone with minor shale, siltstone, and conglomerate; thickness: 225 to 300 feet.

SILURIAN

Srh — **Rose Hill Formation**
Hematitic, cross-laminated sandstone with olive-gray and red shale; several beds of white to light-gray, fine- to medium-grained sandstone up to 10 feet thick.

Stu — **Tuscarora Formation**
Light-gray, fine- to medium-grained, cross-laminated sandstone with thin conglomerate layers; *Skolithos*; thickness: 75 to 125 feet.

ORDOVICIAN

Oj — **Juniata Formation**
Grayish-red, cross-laminated sandstone, siltstone, and shale, and gray sandstone; thickness: 300 feet.

Ort — **Reedsville Shale and Trenton Limestone, undivided**
Reedsville Shale: interbedded gray siltstone and shale and thin beds of gray, fossiliferous limestone, minor calcareous sandstone beds particularly near the top of the unit. **Trenton Limestone:** interbedded gray, fossiliferous limestone and thin gray shale beds. Thickness of combined units: 1000 to 1100 feet.

Oeg — **Eggleston Formation**
Gray-pink to maroon limestone, mudstone, and siltstone; thickness: 100 feet.

Om — **Moccasin Formation**
Grayish-pink to maroon limestone, mudstone, and siltstone; thickness: 100 to 150 feet.

Omu — **Middle Ordovician Limestone**
Unit consists of a lower dolomitic limestone and dolostone with minor chert; a middle cherty, fossiliferous limestone and micrite sequence; and an upper argillaceous limestone and shale sequence; thickness: 800 feet.

Omk — **Mascot Dolomite and Kingsport Dolomite, undivided**
Mascot Dolomite: pearly gray, fine-grained dolostone with chert, fossils rare; thickness: 300 to 450 feet. **Kingsport Dolomite:** medium- to dark-gray, thrombolitic dolostone with rare chert; thickness 400 feet.

Base map is modified U. S. Geological Survey DRG, 1965 Peterstown quadrangle, West Virginia-Virginia, 7.5-minute series, photorevised 1984

SCALE 1:24,000

0 — 1 — 2 miles

0 — 1 — 2 — 3 kilometers

CONTOUR INTERVAL 20 FEET

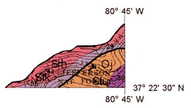
DECLINATION DIAGRAM

MN

5°30'

Direction of North and 1984 magnetic declination (MN) at center of map. Diagram is approximate

Projection: Polyconic
lon 0 = -80.8125000
lat 0 = 37.3750000



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