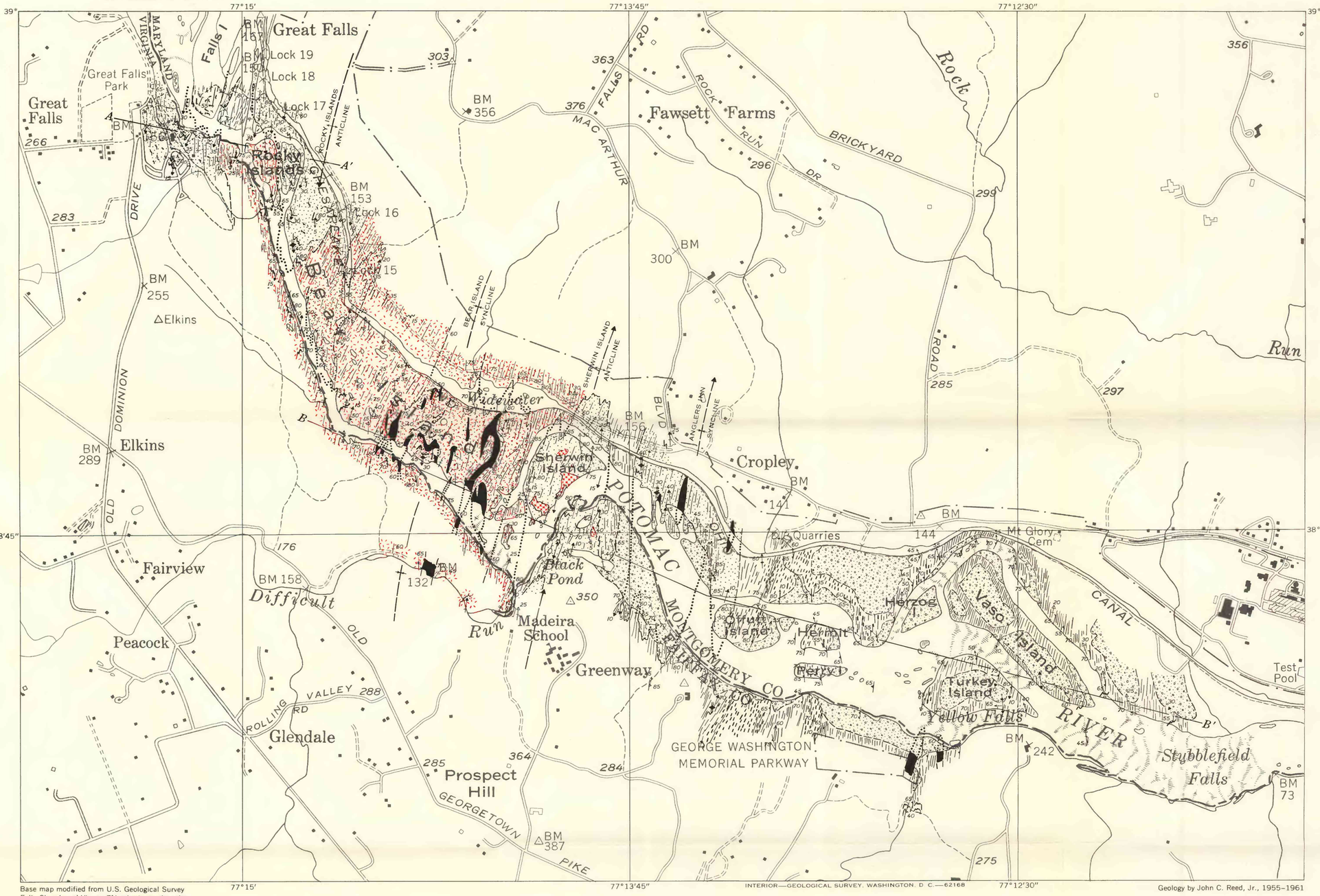


Base map modified from U.S. Geological Survey
Falls Church and Vienna 7½ minute quadrangles

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—62168

Geology by John C. Reed, Jr., 1955–1961

EXPLANATION

QUATERNARY

Recent

Alluvium
Sand, silt, and gravel

LOWER PALEOZOIC(?)

Granodiorite and quartz diorite
Leucocratic muscovite granodiorite and quartz diorite forming small discordant plutons, sills, dikes and veins. Bear Island Granodiorite of Cloos and Cooke (1953)

Chlorite-muscovite gneiss
Schistose granitic-appearing gneiss containing inclusions of quartz, quartzite, epidote amphibole schist. Contacts diffuse and gradational. Sykesville Formation of Cloos and Cooke (1953)

Amphibolite
Coarse- to fine-grained hornblende amphibolite in sill-like bodies

Wissahickon(?) Formation

Quartzite and schist
Medium- to fine-grained white to gray feldspathic quartzite, generally with abundant interlayered mica schist. Locally quartzite contains thin conglomerate layers, and layers of epidote-amphibole schist and calc-silicate rocks

Mica schist
Medium- to fine-grained blue-gray or greenish-gray muscovite-biotite or muscovite-chlorite schist, generally containing abundant sericite. Commonly with thin layers of quartzite and locally containing layers of epidote amphibole schist and calc-silicate rocks

Migmatitic rocks
Schist and quartzite intimately veined and interleaved with quartzo-feldspathic material

Contact
Dashed where gradational or inferred; dotted where concealed

Inferred anticline
Showing trace of axial plane and direction of plunge of axis

Inferred syncline
Showing trace of axial plane and direction of plunge of axis

Inclined 60 Overturned 75 Vertical Contorted 50
Strike and dip of bedding

Inclined 70 Vertical Contorted 15
Strike and dip of bedding foliation

Strike and dip of cleavage
Transects bedding or bedding foliation. Generally parallel to axial planes of minor folds

Strike and dip of cleavage in nonbedded rocks

Strike and dip of foliation in migmatitic rocks

Inclined 70 Vertical
Strike and dip of axial plane of fold

Inclined 10 Horizontal
Bearing and plunge of fold axis

Inclined 10 Horizontal
Bearing and plunge of crenulation axis

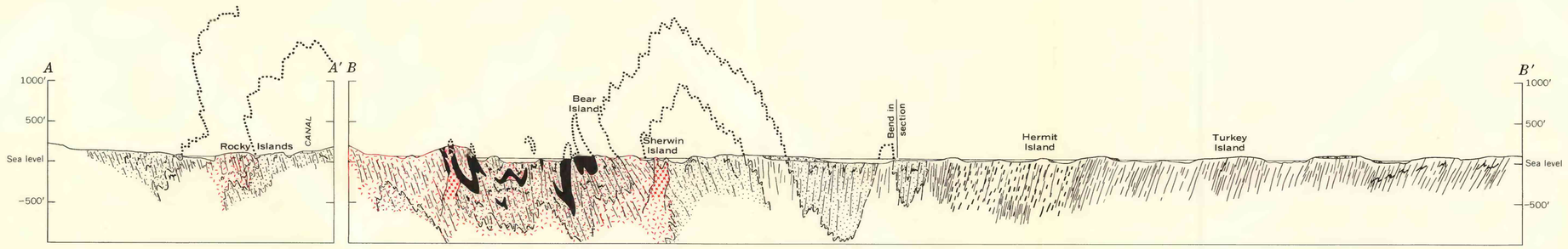
Inclined 10 Horizontal
Bearing and plunge of intersection of S-planes

Inclined 60
Bearing and plunge of mineral lineation or elongation of mineral aggregates

Trace of bedding showing sense of folds in single outcrops. Scale greatly exaggerated

Trace of prominent cleavage or foliation. Shown diagrammatically

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1962



GEOLOGIC MAP AND SECTIONS OF PART OF THE POTOMAC RIVER GORGE NEAR WASHINGTON, D. C.

SCALE 1:12 000

0 ¼ ½ 1 MILE