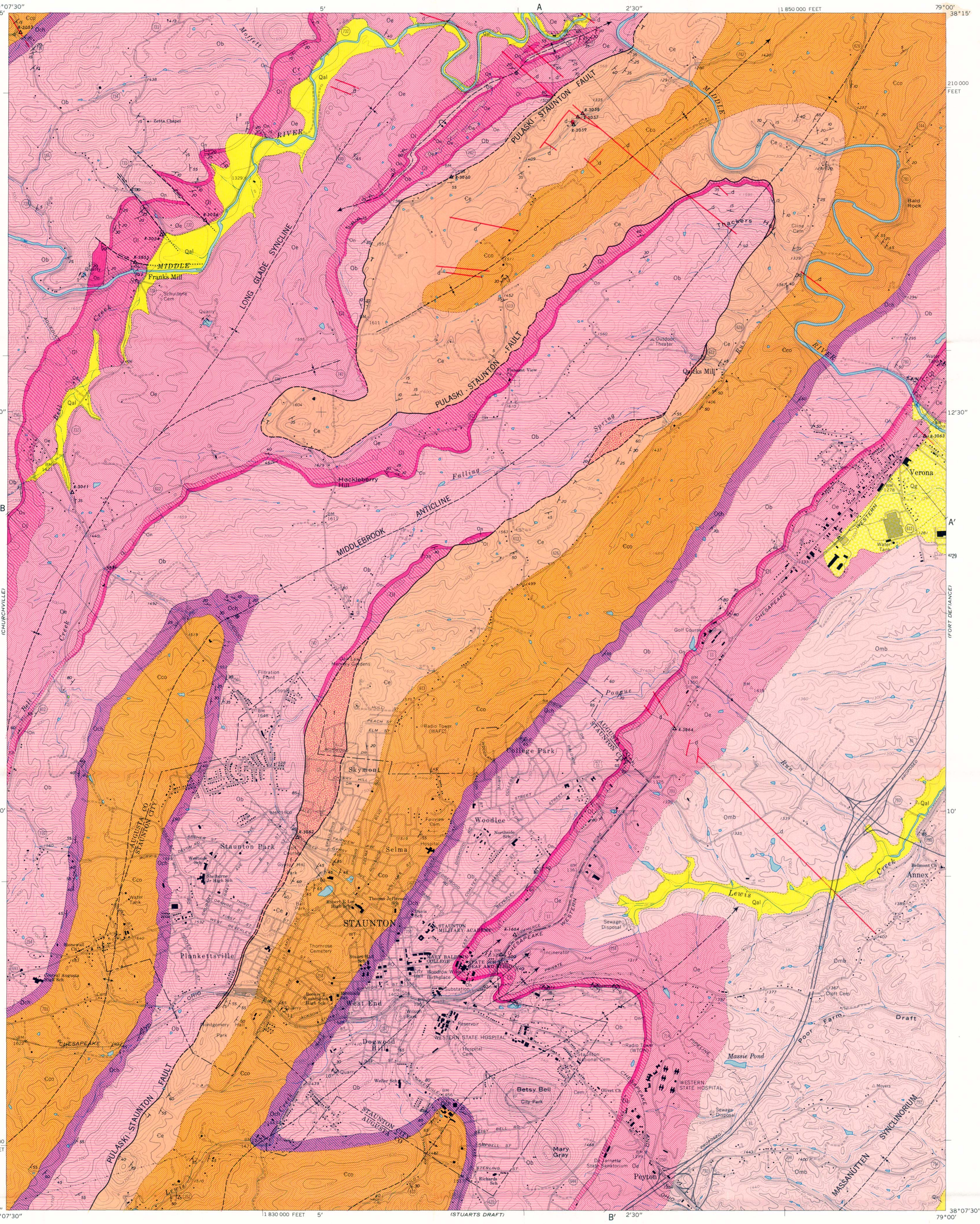
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
DIVISION OF MINERAL RESOURCES
James L. Calver
Commissioner of Mineral Resources and State Geologist



Base From U.S. Geological Survey 1964, Staunton Quadrangle, 7½-Minute Series

Williams & Heintz Map Corporation
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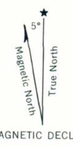
GEOLOGIC MAP OF THE STAUNTON QUADRANGLE, VIRGINIA

Geology by Eugene K. Rader



1964 MAGNETIC DECLINATION

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 40 FEET

QUADRANGLE LOCATION

1967

EXPLANATION

CENOZOIC — QUATERNARY

Qal — Alluvium

Qg — Terrace gravel

MESOZOIC

d — Alkalic dike
Nepheline syenite, teschenite-syenite, and teschenite-picrite.

PALEOZOIC — ORDOVICIAN

Omb — Martinsburg Formation
Olive-green to gray, subfissile shale and fine-grained, thin-bedded sandstone.

Oe — Edinburg Formation
Dark-gray to black, argillaceous limestone and black, fissile, graptolitic shale.

Ol — Lincolnshire Formation
Dark-gray, finely crystalline limestone with nodules and stringers of black chert.

On — New Market Limestone
Dove-gray, compact, thick-bedded limestone.

Ob — Beekmantown Formation
Light- to dark-gray, fine-grained limestone, light-gray, fine-grained dolomite, and dark-gray, coarse-grained recrystalline dolomite.

Och — Chepultepec Formation
Bluish-gray to black limestone with black chert nodules; lower part contains siliceous laminae that are exposed in relief on weathered surfaces.

CAMBRIAN

Ꞓco — Conococheague Formation
Bluish-gray limestone and light-gray dolomite with interbedded thin sandstone.

Ꞓe — Elbrook Formation
Thin-bedded, argillaceous limestone and gray, fine-grained dolomite that commonly weathers to iron oxide stained slabs and thin plates.

f — Breccia
f, fault breccia, large blocks of dolomite, limestone, and shaly dolomite with crush conglomerate.

CONTACTS

exposed
approximate
covered

FOLDS

Anticline—approximate trace of axial plane and direction of plunge of axis
Syncline—approximate trace of axial plane and direction of plunge of axis
Overturned anticline—approximate trace of axial plane and direction of plunge of axis

FAULTS

THRUST
exposed
approximate
covered
T overthrust side

TRANSVERSE
approximate
covered
Arrows indicate relative movement

ATTITUDE OF ROCKS

Strike and dip of beds
Strike and dip of overturned beds
Strike of vertical beds
Horizontal beds

QUARRIES

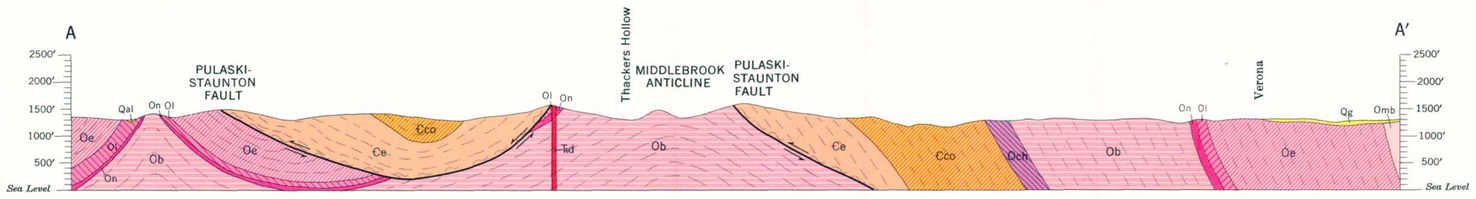
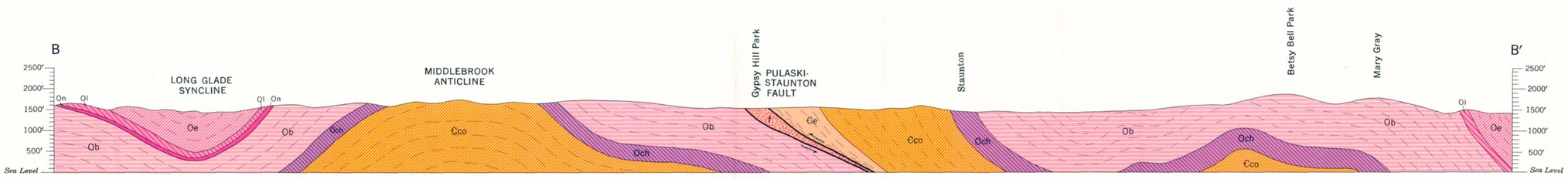
ACTIVE QUARRY
2. Augusta Stone Corporation
6. State Lime Quarry No. 1
8. Valley Stone Company
9. Belmont Trap Rock Company

ABANDONED QUARRY
1. Augusta Stone Corporation
3. Crushed-stone quarry
4. Bowling quarry
5. Crushed-stone quarry
7. Crushed-stone quarry
10. Crushed-stone quarry
11. Crushed-stone quarry
12. Crushed-stone quarry

SAMPLE LOCATIONS

R-3055 — Locations of samples representative of various lithologies mapped.

F-600 — Locations of fossils collected.



No Vertical Exaggeration