

SURFICIAL GEOLOGY OF THE PENNSYLVANIA PART OF THE CONOWINGO DAM 7.5' QUADRANGLE, MD-PA

Open-File Report 96-17

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

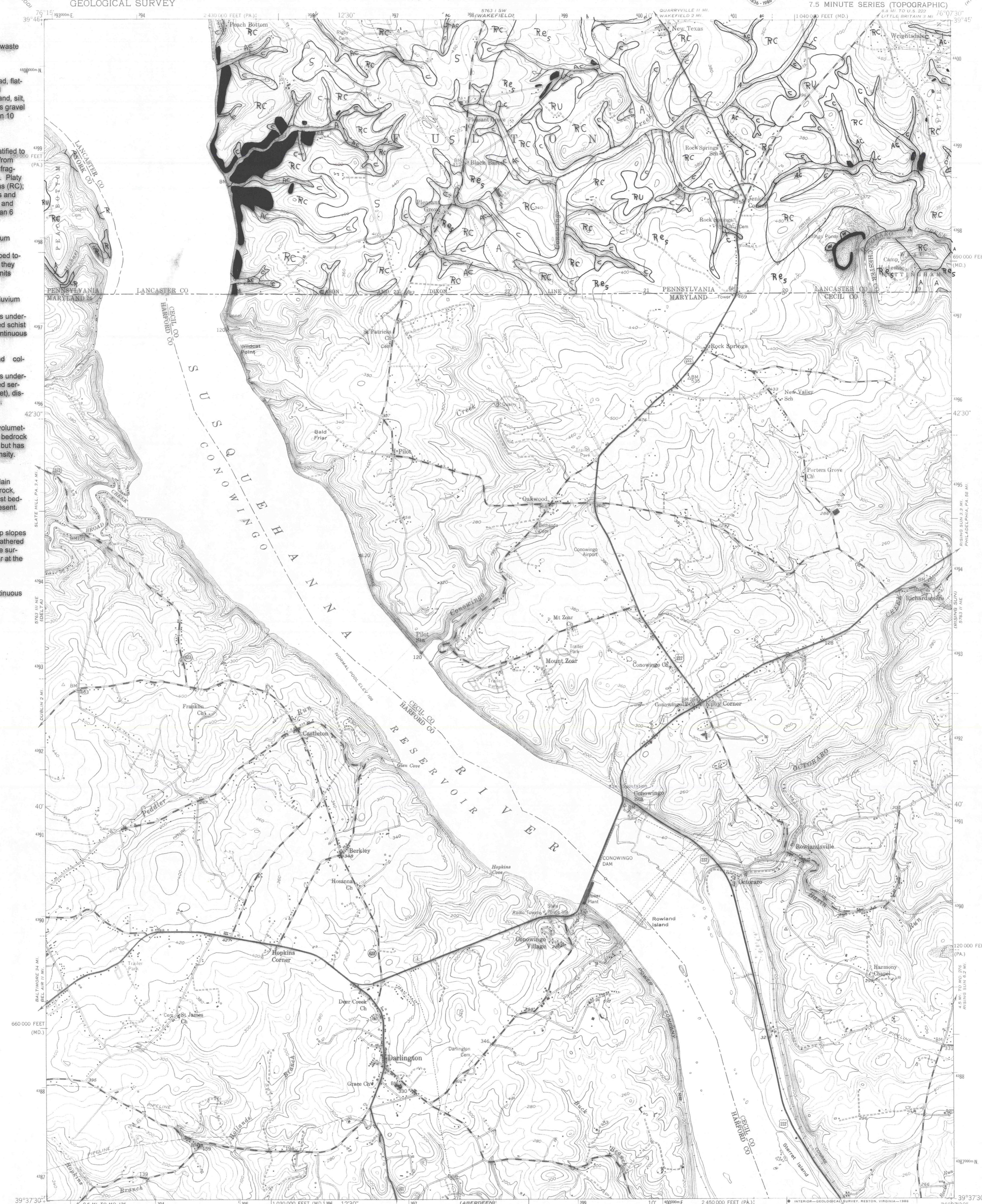
by W. D. Sevon
1996



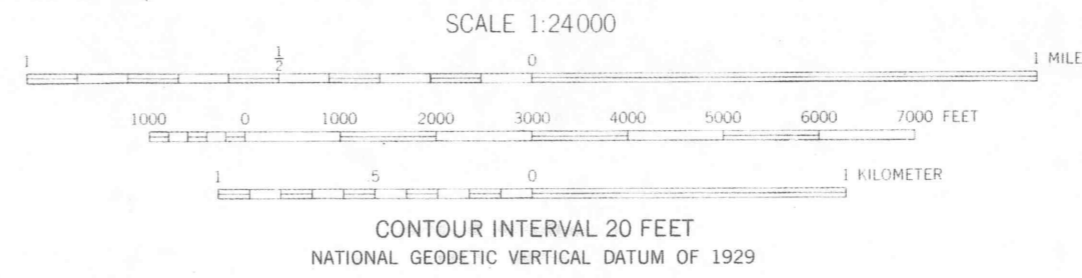
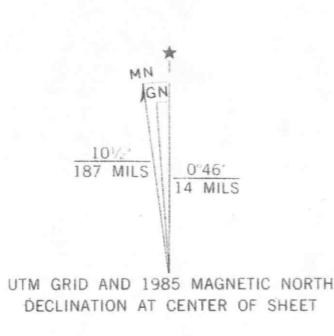
CONOWINGO DAM QUADRANGLE
MARYLAND-PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

EXPLANATION

- W_Q** = Quarry waste
Waste pile; mounded deposit of waste from quarry operations.
- A** = Alluvium
Material underlies narrow to broad, flat-surfaced floodplains of perennial streams. Comprises stratified sand, silt, and clay in upper part; same plus gravel in lower part. Generally less than 10 feet thick.
- C** = Colluvium
Colluvium is unsorted and unstratified to crudely stratified debris derived from underlying bedrock. Comprises fragments set in finer-grained matrix. Play fragments in schist bedrock areas (RC); more equant fragments in gneiss and serpentinite bedrock areas (RC_s and RC_g). Mapped where greater than 6 feet thick.
- AC** = Alluvium and colluvium undivided
Alluvium and colluvium are mapped together where the valley in which they occur is too narrow to map the units separately at 1:24,000 scale.
- RC** = Schist bedrock and colluvium undivided
Surfaces with low to steep slopes underlain by unweathered or weathered schist bedrock and thin (<6 feet), discontinuous deposits of colluvium.
- RC_s** = Serpentinite bedrock and colluvium undivided
Surfaces with low to steep slopes underlain by unweathered or weathered serpentinite bedrock and thin (<6 feet), discontinuous deposits of colluvium.
- S** = Sapolite
Upland surface underlain by isovolumetrically weathered, untransported bedrock that retains its original character but has lost up to half its original bulk density.
- RU** = Rock upland
Nearly flat upland surface underlain usually by weathered schist bedrock, sometimes by unweathered schist bedrock. Little or no colluvium is present.
- R** = Rock
Surfaces with steep to very steep slopes underlain by unweathered or weathered rock that is at or very close to the surface. Some colluvium may occur at the base of the slope.
- = Outcrop
Areas with continuous or discontinuous bedrock outcrop.



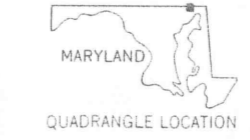
Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Culture and drainage in part compiled from aerial photographs taken 1952. Topography by planetable surveys 1939 and 1940 Revised 1953
Polyconic projection. 10,000-foot grid ticks based on Maryland coordinate system, and Pennsylvania coordinate system, south zone 1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 7 meters south and 29 meters west as shown by dashed corner ticks
Revisions shown in purple and woodland compiled from aerial photographs taken 1982 and other sources
This information not field checked. Map edited 1985



ROAD CLASSIFICATION

Heavy-duty	4 LANE 16 LANE	Light-duty
Medium-duty	2 LANE 16 LANE	Unimproved dirt

U.S. Route
State Route



CONOWINGO DAM, MD. - PA.
39076-F2-TF-024
1953
PHOTOREVISED 1985
DMA 5763 II NW-SERIES 1983

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

**ADDITIONAL COPIES OF THIS REPORT CAN BE OBTAINED FROM:
PENNSYLVANIA GEOLOGICAL SURVEY
P. O. BOX 8453
HARRISBURG, PA 17105-8453**