

6821.96  
(FT. NECESSITY)

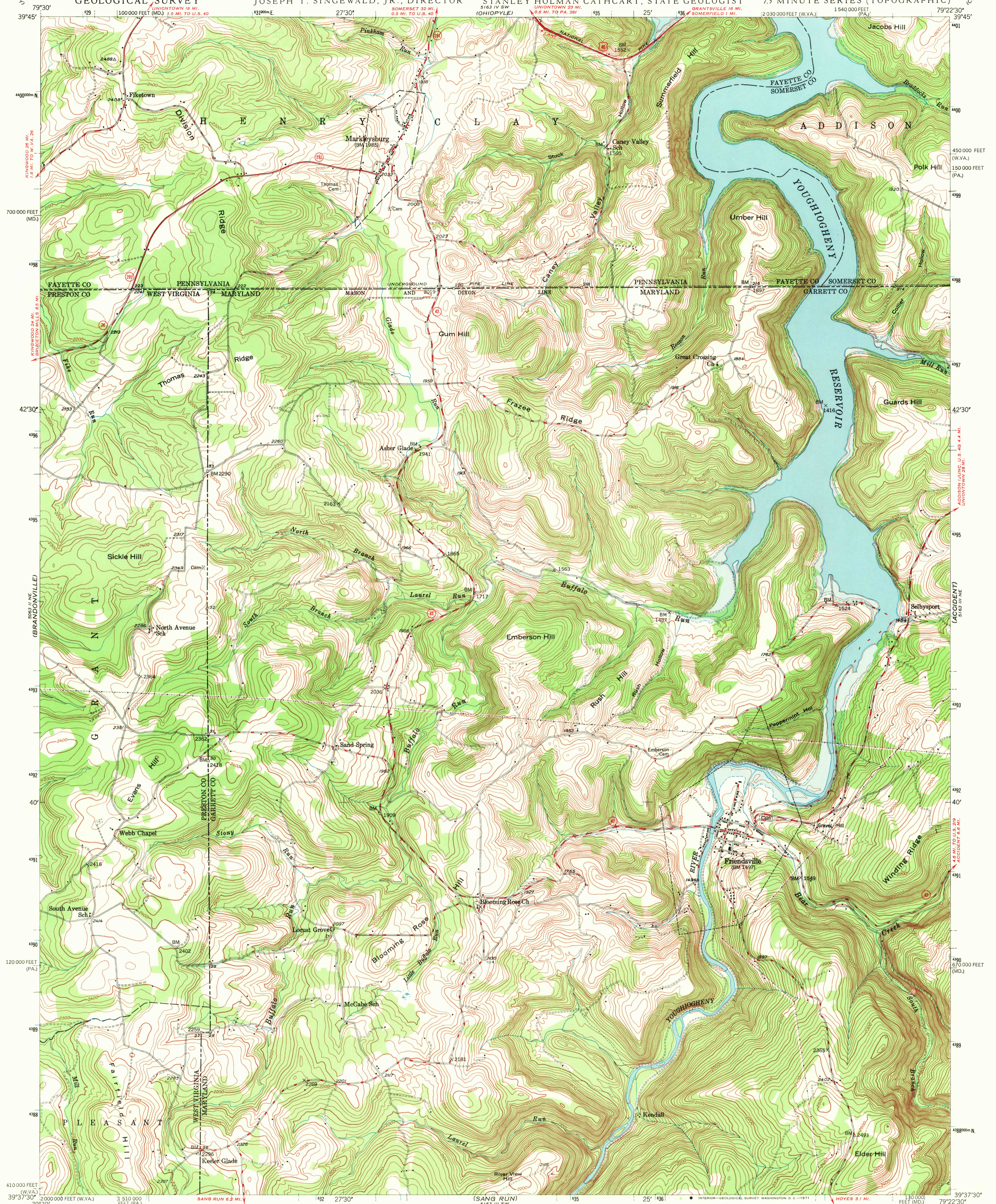
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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STATE OF MARYLAND  
DEPARTMENT OF GEOLOGY, MINES, AND  
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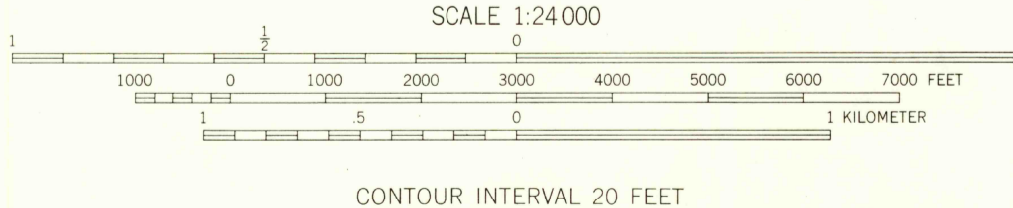
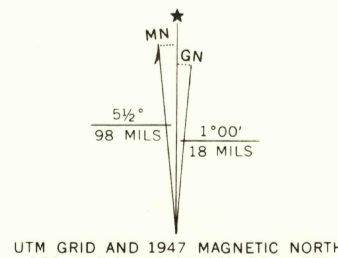
STATE OF PENNSYLVANIA  
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TOPOGRAPHIC AND GEOLOGIC SURVEY  
STANLEY HOLMAN CATHCART, STATE GEOLOGIST

FRIENDSVILLE QUADRANGLE  
MARYLAND-PENNSYLVANIA-  
WEST VIRGINIA  
7.5 MINUTE SERIES (TOPOGRAPHIC)

6183.19 SE  
(CONFLUENCE)



Mapped, edited, and published by the Geological Survey  
Control by USGS, USC&GS, and USED  
Topography from aerial photographs by multiplex methods.  
Aerial photographs taken 1946. Field check, 1947.  
Polyconic projection. 1927 North American datum  
10,000-foot grids based on Maryland coordinate system,  
Pennsylvania coordinate system, south zone and  
West Virginia coordinate system, north zone.  
Blue hatching indicates areas subject to controlled inundation.  
Normal pool elevation 1439 feet. Spillway elevation 1468 feet.  
1000-meter Universal Transverse Mercator grid ticks,  
zone 17, shown in blue



CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

USGS  
Historical File  
Topographic Division  
**U.S.G.S.**  
**FILE COPY**  
TOPOGRAPHIC DIVISION

ROAD CLASSIFICATION  
HARD-SURFACE ALL WEATHER ROADS DRY WEATHER ROADS  
Heavy-duty ——— 4 LANE LANE Improved dirt ———  
Medium-duty ——— 4 LANE LANE Unimproved dirt ———  
Loose-surface, graded, or narrow hard-surface ———  
U. S. Route State Route

FRIENDSVILLE, MD.-PA.-W.VA.  
N3937.5-W7922.5/7.5

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

1947  
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JUN 4 1971