

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF PENNSYLVANIA
DEPARTMENT OF INTERNAL AFFAIRS
TOPOGRAPHIC AND GEOLOGIC SURVEY

MARS QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE 1/4 SE-WICKLEY 15 QUADRANGLE

STATE OF PENNSYLVANIA
DEPARTMENT OF INTERNAL AFFAIRS
TOPOGRAPHIC AND GEOLOGIC SURVEY

VALENCIA QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW 1/4 NEW KENSINGTON 15 QUADRANGLE

Open file 77-818



MAPS SHOWING LANDSLIDES AND SLOPES MOST SUSCEPTIBLE TO SLIDING IN PARTS
OF THE MARS AND VALENCIA 7½-MINUTE QUADRANGLES, BUTLER COUNTY, PENNSYLVANIA

By J. S. Pomeroy

Base by U. S. Geological Survey, 1949

SCALE 1:24,000

U. S. Geological Survey
OPEN FILE MAP
This map is preliminary and has
not been edited for conformity
with Geological Survey standards
or nomenclature.

Pennsylvania (Mars quad.) Land
sheet
cp. 1
QUADRANGLE LOCATION

U. S. GEOLOGICAL
RESTON, VA
NOV 3 19
LIBRARY