

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SWATARA HILL QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 PINE GROVE 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS

Topography by planetable surveys 1944. Culture revised 1955

Polyconic projection. 1927 North American datum

10,000-foot grid based on Pennsylvania coordinate system,

south zone 1000-meter Universal Transverse Mercator grid ticks,

zone 18, shown in blue

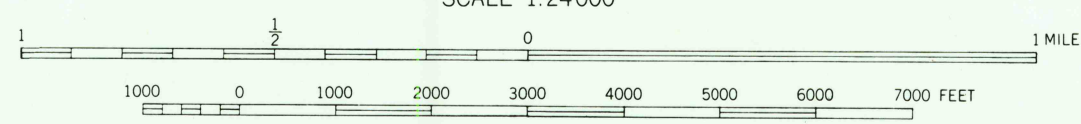
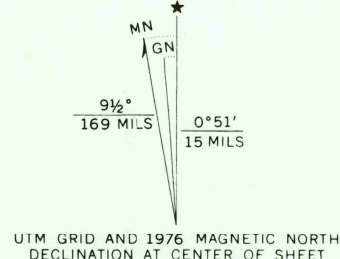
Revisions shown in purple compiled in cooperation with

State of Pennsylvania agencies from aerial photographs

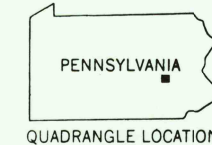
taken 1969 and 1976. This information not field checked

Map photoinspected 1983

No major culture or drainage changes observed



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



ROAD CLASSIFICATION
Heavy-duty ——— Light-duty ———
Medium-duty ——— Unimproved dirt ———
U. S. Route ——— State Route ———

SWATARA HILL, PA.
SE/4 PINE GROVE 15' QUADRANGLE
N 4030—W 7615/7.5
PHOTOINSPECTED 1983

PHOTOREVISED 1969 AND 1976
AMS 5765 III SE—SERIES V831

U.S. GEOLOGICAL SURVEY
MAY 3 1 1989
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