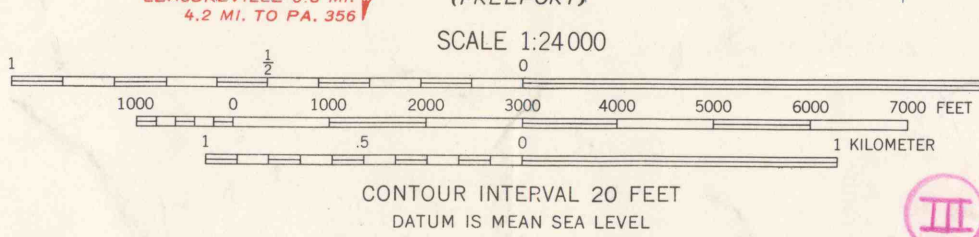


Mapped, edited, and published by the Geological Survey
Control by USGS and US&GS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1952. Field check 1958
Polyconic projection, 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system,
south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 17, shown in blue
Fine red dashed lines indicate selected fence and field lines
visible on aerial photographs. This information is unchecked
Unlabeled wells are oil wells
Unchecked elevations are shown in brown



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

ALLEGHENY RIVER MINING CO.
KITTANNING PA.
CADDAGAN MINE No 2
ARMSTRONG CO.
SOUTH BUFFALO TWP.
OCT. 1966

WORTHINGTON, PA.
SW/4 KITTANNING 15' QUADRANGLE
N 4045-W 7937.5/7.5

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PERMIT NUMBER - 161-3
"B"-OR LOWER KITTANNING SEAM

1958



James Sprout
8414-E