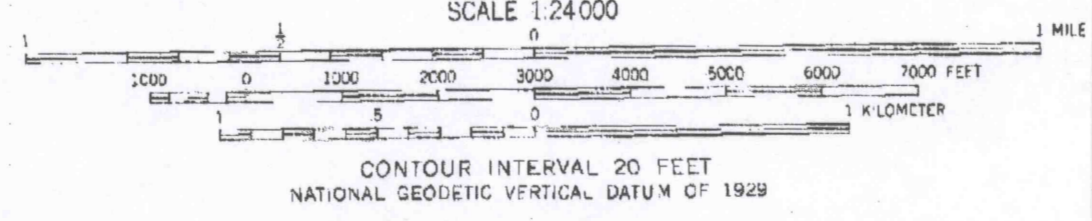


Index Sheet and Number
Subsidence Control Boundary

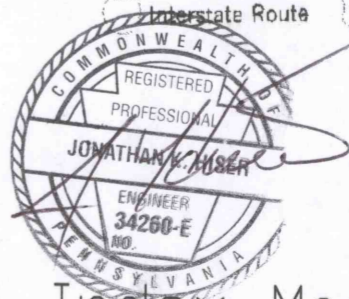
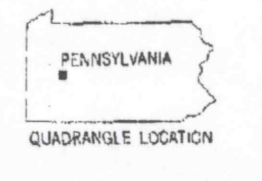
Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial photographs taken 1966 and 1967. Field checked 1968
Polyconic projection. 10,000-foot grid ticks based on Pennsylvania coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue
1927 North American Datum (NAD 27)
North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are given in USGS Bulletin 1873
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is un-checked
Revisions compiled in cooperation with Commonwealth of Pennsylvania agencies from aerial photographs taken 1988 and other sources. Contours not revised. This information not field checked. Map edited 1993



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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ROAD CLASSIFICATION

| | |
|---------------------------------|---|
| Primary highway, hard surface | Light-duty road, hard or improved surface |
| Secondary highway, hard surface | Unimproved road |
| U.S. Route | State Route |



MOSGROVE, PA.
40079-G4-1F-024
1988
REVISED 1993
DMA 5165 IV SW - SERIES V631

DEEP MINE PERMIT APPLICATION
for
ROSEBUD MINING COMPANY
STITT MINE
Aug. 1993
CHAP. 8

Hiser Engineering, Inc.
40079-G4-1F-024
NOV 08 1993
Dept. of Environmental Protection
McMurry Building

Exhibit 19.1 Index Map