

Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NODAA

Topography by photogrammetric methods from aerial
photographs taken 1962. Field checked 1966
Polyconic projection. 10,000-foot grid ticks based on
Pennsylvania coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks,
zone 17, shown in blue. 1927 North American Datum
The difference between 1927 North American Datum and North
American Datum of 1983 (NAD 83) for 7.5-minute intersections
is given in USGS Bulletin 1875. The NAD 83 is shown by
dashed corner ticks
There may be omissions within the boundaries
of the National or State reservations shown on this map

UTM GRID AND 1983 MAGNETIC NORTH
360 METERS AT CENTER OF SHEET
Map photorevised 1988
No major culture or drainage changes observed

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
SCALE 1:24,000
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22062
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

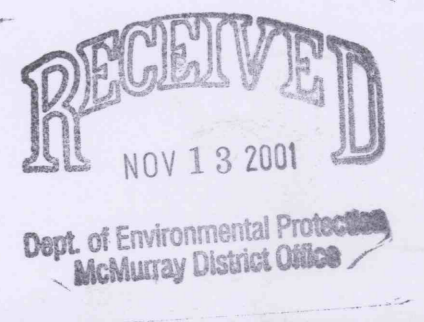
Revisions shown in purple and woodland compiled in cooperation
with Commonwealth of Pennsylvania agencies from aerial
photographs taken 1977 and other sources. This information
not field checked. Map edited 1981

ROAD CLASSIFICATION
Heavy-duty Light-duty
Medium-duty Unimproved dirt
U.S. Route State Route
REYNOLDSVILLE, PA.
41078AB7F024
PHOTOINSPECTED 1988
1966
PHOTOREVISED 1981
DMA 5046 (1) SW-02/07/81-021

Legend

- UNDERGROUND PERMIT/SUBSIDENCE LIMIT
- SURFACE PERMIT LIMIT
- SMP #33800116
- ▲ MONITORING WATER SAMPLE LOCATION
- PREFIX DESIGNATION
- S—SPRING/SEEP, C—SURFACE WATER, W—WELL, MD—MINE DISCHARGE, PZ—PIEZOMETER, MW—MONITORING WELL
- MINE DISCHARGE
- POINT SOURCE DISCHARGE
- PROPOSED/EXISTING MINE OPENING
- GEOLOGIC CROSS-SECTION
- MIDDLE KITTANNING COAL CROP
- MIDDLE KITTANNING COAL CONTOURS
- ACTIVE & ABANDONED DEEP MINE LIMITS

NOTES: (1) THERE ARE NO KNOWN GEOLOGIC FAULTS IN OR WITHIN 1000 FEET OF THE PERMIT AREA.
(2) THERE ARE NO PUBLIC WATER SUPPLIES WITHIN ONE MILE OF PERMIT BOUNDARY.



REVISIONS			
No.	By	Date	Description

Drawn By:	A.Z
Checked By:	J.F
Date:	10/30/01
Scale:	1" = 2000'
Project Number:	0027-01
File Name:	EXHIBIT-8.2.dwg
Drawing:	1 of 1

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EXHIBIT 8.2: HYDROLOGIC DATA MAP
for
LAUREL ENERGY L.P.
SANDY LANDS MINE
MIDDLE KITTANNING COAL SEAM
REYNOLDSVILLE USGS 7.5' QUADRANGLE
McCALMONT TOWNSHIP
JEFFERSON COUNTY, PENNSYLVANIA