



DUBOIS 4.5 miles

HOME CAMP ROCKTON 3.5 mi

SANDY UNION TWP

THE CULTURAL DATA PRESENTED ON THIS MAP HAS BEEN FIELD CHECKED AND CORRECTED RELATIVE TO THAT ON THE U.S.G.S. TOPOGRAPHIC BASE MAP

LEGEND

- AREA AFFECTED 200 ACRES
- PROPERTY LINES
- ABANDONED DEEPMINE ENTRY
- PROPOSED MINING SEQUENCE
- PIPELINE BARRIER (100')
- ROAD BARRIER (100')
- STREAM BARRIER (100')
- SLOPE ARROW
- LOCAL GROUNDWATER FLOW STRIKE AND DIP
- HOUSE BARRIER (300')
- TEST HOLE
- SEDIMENTATION BASIN
- TREATMENT PONDS
- AREAL EXTENT OF SURFACE MINES

- PROPERTY LINES ARE BASED UPON THE COUNTY TAX ASSESSMENT MAPS.
- LEGEND (continued)
- ABANDONED GASWELL (see mine workings addendum)
 - QUARRY (see mine workings)
- COAL SEAMS
- LOWER FREEPORT COAL 44 ACRES - D coal
 - MIDDLE KITTANNING COAL 58 ACRES - C coal
 - LOWER KITTANNING COAL 118 ACRES - B coal
 - CLARION COAL 195 ACRES - A coal

DRILL LOGS

testhole	surface elev.	overburden	b.c. thickness
1	1765'	68'	1695'-2.0'-B
2	1758'	57.5'	1698'-2.5'-B
3	1770'	87'	1681'-2.1'-B
4	1791'	83'	1708'-2.0'-B
6	1810'	18.5'	1790'-1.5'-D
7	1809'	28'	1779'-2.1'-D
		78'	1730'-1.1'-C
8	1670'	59'	1610'-1.0'-A
10	1690'	70.5'	1618'-1.5'-A
11	1678'	58'	no coal
12	1672'	61'	1620'-1.1'-A
13	1658'	39.3'	1618'-0.7'-A
14	1643'	24'	1618'-1.0'-A
15	1631'	33'	1597'-1.0'-A

- WATER COLLECTION POINTS
- BACKGROUND MONITORING SAMPLES
 - WELL SAMPLES
 - WELL
 - WELL

EXHIBIT 5

SKY HAVEN COAL INC.

SHAFFER NO. 1

UNION TWP. CLEARFIELD COUNTY

SCALE - 1 inch = 400 feet

JANUARY, 1980 HESS & FISHER ENGINEERS, INC.

CLEARFIELD, PA. M.D.P. NO. 11-0101 B

ROCKTON 0.2 miles