



EXPLANATION
 Additional information is contained in a letter accompanying this map.

MINERAL INDUSTRY MODIFICATIONS

SM
 SURFACE (STRIP) MINE, NOT RECLAIMED
 Primarily coal but includes some sand and limestone; high wall indicated by hatched lines.

Sub
 MINE SUBSIDENCE
 Areas in which surface patterns are indicative of mine subsidence (based in part on aerial photographs).

RB
 REFUSE BANKS
 Primarily coal waste; may also contain slag and clinkers (red lines).

Q
 QUARRIES AND PITS
 Quarries and abandoned rock quarries and gravel pits.

E
 OTHER EXCAVATIONS
 Primarily borrow pits.

LAND DEVELOPMENT MODIFICATIONS

H
 URBAN DEVELOPMENT
 Land modified for housing, educational, recreational, and industrial uses; manufacturing, primarily after 1945. Includes: removal of vegetation; removal and re-arrangement of structures; construction of roads, electrical and commercial lines; and placement of foundations, sidewalks, and parking lots. Major fills labeled separately.

M
 PREDEVELOPMENT MODIFICATION
 Primarily removal of vegetation for small and medium-size construction; also includes some modifications to surface water and drainage patterns.

T
 LAND RECLAIMED FOR AGRICULTURE
 Includes: removal of structures; removal of vegetation; and placement of foundations, sidewalks, and parking lots. Major fills labeled separately.

EF
 EARTH AND ROCK FILLS
 Primarily industrial and construction fills and other fills to level ground or to build up low areas; also includes some fills to level ground or to build up low areas.

NVC
 NEARLY VERTICAL CUTS AND CLIFFS
 Primarily cuts along highways and railroad lines; also includes some cuts along highways and railroad lines.

OTHER MODIFICATIONS

Other symbols
 Primarily small-scale modifications to surface water and drainage patterns.

Base by U.S. Geological Survey, 1960.
 Research sponsored by the Appalachian Regional Commission under contract no. 74-31.

SCALE 1:24,000
 CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL

MAP OF LAND MODIFIED BY MAN IN PART OF THE FREEPORT 1 1/2 QUADRANGLE, ALLEGHENY COUNTY AND VICINITY, PENNSYLVANIA

by
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U.S. Geological Survey
 OPEN FILE MAP 74-290
 This map is preliminary and has not been edited for conformity with Geological Survey standards or nomenclature.

Pennsylvania (Freeport Quad.) Modified Land. 1:24,000. 1974
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