



EXPLANATION  
MINERAL INDUSTRY MODIFICATIONS

**SM**  
SURFACE (STRIP) MINE,  
NOT RECLAIMED.  
Primarily coal but includes  
some developed for sand-  
stone and limestone; high-  
wall indicated by hachured  
line.

**SMh**  
SURFACE MINE, RECLAIMED  
Modified primarily for hous-  
ing, educational, commercial,  
and industrial development.

**SMr**  
SURFACE MINE, RECLAIMED  
BY GRADING

**MF**  
MINE AND COAL BED FIRES  
Includes areas of active, con-  
trolled, and extinguished fires;  
fires generally confined to vic-  
inity of outcrop of coal seam  
(crop fires). (Based on data  
from U.S. Bureau of Mines).

**RB**  
REFUSE BANKS  
Primarily coal waste; most  
banks have been and are  
now ash and clinkers (red  
dip).

**E**  
OTHER EXCAVATIONS  
Primarily borrow pits.

**SD**  
SLAG DUMP

**H**  
LAND DEVELOPMENT  
MODIFICATIONS

**U**  
URBAN DEVELOPMENT  
Land modified for housing,  
commercial, educational,  
and industrial uses. Mod-  
ifications, primarily after  
1969, include: removal of  
vegetation; removal and re-  
distribution of topsoil; some  
excavation of basements of in-  
dustrial and commercial de-  
velopments; and placement  
of impervious streets and  
parking lots. Major hills  
symbolized separately.

**RF**  
ROADWAY REPAIR  
Primarily removal of vegetation  
and removal and redistribution  
of topsoil; ultimate road use  
not identified during investi-  
gation.

**OR**  
EARTH AND ROCK FILLS  
Primarily at industrial, com-  
mercial, educational, and hous-  
ing sites and along transpor-  
tation routes; old fills in urban  
areas and narrow yard fills  
adjacent to houses generally  
not shown. Fills by path-  
tern identified by letter 'F'.

**NC**  
NEARLY VERTICAL CUTS  
AND CLIFFS  
Primarily cuts along highways  
and adjacent to commercial  
and industrial sites; includes  
highwalls in surface mines and  
some natural cliffs.

**W**  
OTHER MODIFICATIONS  
WATER IMPOUNDMENTS  
Primarily farm ponds, reser-  
voirs, and settling basins; dams  
generally too small to be shown  
on the map.

**Q**  
QUILLED LAND  
Primarily on cleared slopes and  
unprotected faces of fills.

U. S. GEOLOGICAL SURVEY  
SEP 19 1974  
LIBRARY

Base by U.S. Geological Survey, 1969.  
Research sponsored by the Appalachian  
Regional Commission under contract  
no. 74-31.

U. S. Geological Survey  
OPEN FILE MAP 74-231  
This map is preliminary and has  
not been edited for conformity  
with Geological Survey standards  
or nomenclature.

MAP OF LAND MODIFIED BY MAN IN THE PITTSBURGH  
EAST 7½ QUADRANGLE, ALLEGHENY COUNTY, PENNSYLVANIA

by J.S. Pomeroy  
1974

Pennsylvania (Pittsburgh East quad.). Modified Land. 1:24,000. 1974.  
cp.1