DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXPLANATION

IRON AND PYRITE

PRODUCTION AND RESERVES

- 5,000,000 to 50,000,000 tons of iron ore
- 200,000 to 5,000,000 tons of iron ore
- Less than 200,000 tons of iron ore
- Other prospects and occurrences, no production or production unknown

DEPOSIT TYPES

- Pyrite
- Limonite--Brown ores
- Filled sink iron--Hematite and limonite
- Filled sink iron--Hematite, limonite, and pyrite
- Filled sink iron--Hematite, limonite, and copper
- Precambrian iron ores--Hematite and magnetite
- Location of mine where crowding prohibits showing size symbol
- Mined out
- Undeveloped Precambrian deposit

MANGANESE AND TUNGSTEN-SILVER-MANGANESE-TIN

DEPOSIT TYPES--Production and reserves from known deposits represent a total of 3,000 or fewer tons of ore; one size symbol represents occurrences, prospects, and mines

Manganese

- In sedimentary rocks
- In Precambrian rocks
- Tungsten, silver, manganese, and tin

Location of quadrangle

Base from U.S. Geological Survey, 1954-69

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

IRON AND PYRITE; MANGANESE AND TUNGSTEN-SILVER-MANGANESE-TIN

MINES, PROSPECTS, AND OCCURRENCES OF METALLIC MINERALS IN THE ROLLA 1° X 2° QUADRANGLE, MISSOURI

By
Mary H. Miller

1982

INTERIOR--GEOLOGICAL SURVEY, RESTON, VA.--REPRINTED, 1984

For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225