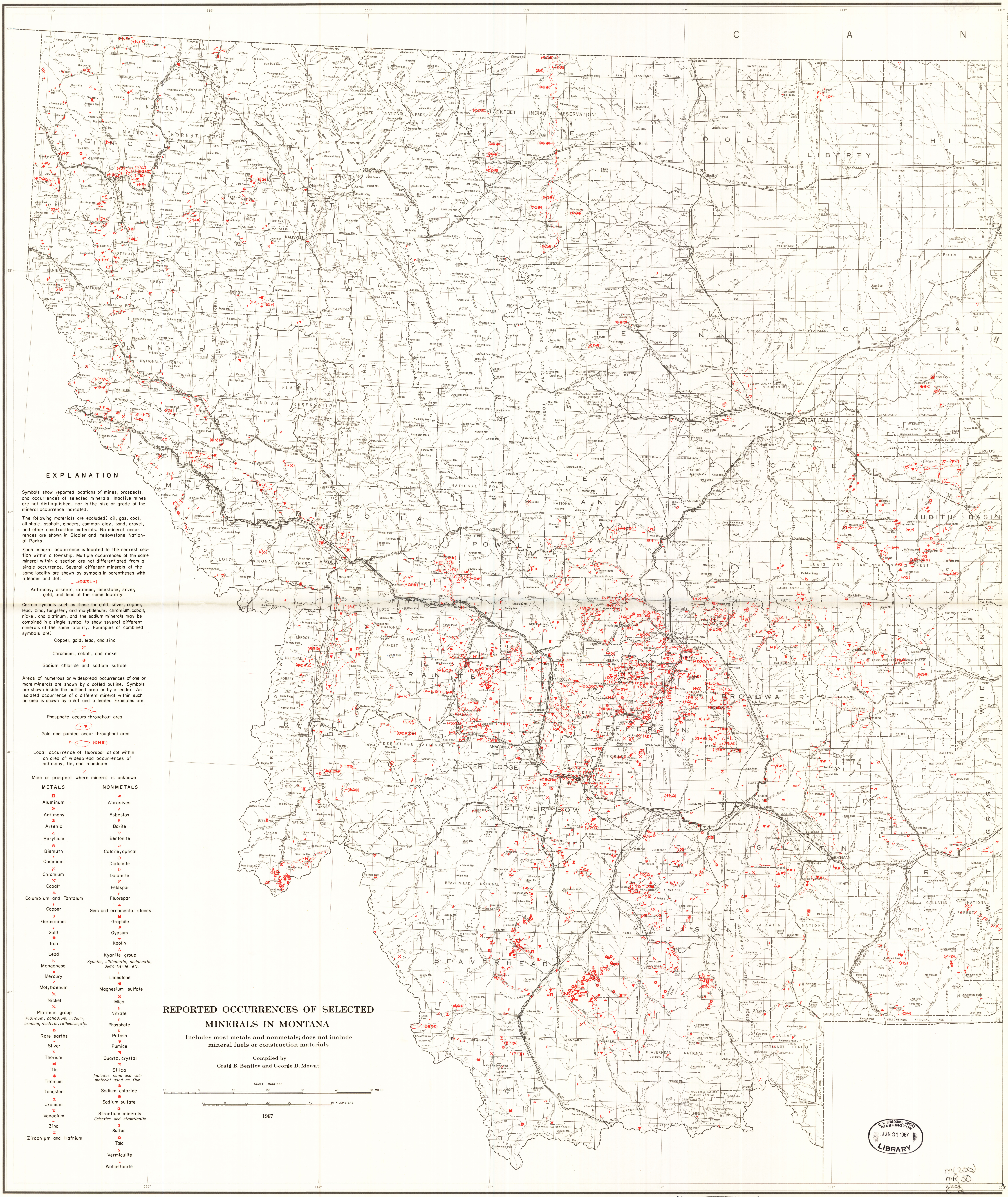
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY



REPORTED OCCURRENCES OF SELECTED MINERALS IN MONTANA

Includes most metals and nonmetals; does not include mineral fuels or construction materials

Compiled by
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SCALE 1:500 000

10 0 10 20 30 40 50 MILES

10 0 10 20 30 40 50 KILOMETERS

1967

EXPLANATION

Symbols show reported locations of mines, prospects, and occurrences of selected minerals. Inactive mines are not distinguished, nor is the size or grade of the mineral occurrence indicated.

The following materials are excluded: oil, gas, coal, oil shale, asphalt, cinders, common clay, sand, gravel, and other construction materials. No mineral occurrences are shown in Glacier and Yellowstone National Parks.

Each mineral occurrence is located to the nearest section within a township. Multiple occurrences of the same mineral within a section are not differentiated from a single occurrence. Several different minerals at the same locality are shown by symbols in parentheses with a leader and dot:

Antimony, arsenic, uranium, limestone, silver, gold, and lead at the same locality

Certain symbols such as those for gold, silver, copper, lead, zinc, tungsten, and molybdenum; chromium, cobalt, nickel, and platinum; and the sodium minerals may be combined in a single symbol to show several different minerals at the same locality. Examples of combined symbols are:

Copper, gold, lead, and zinc

Chromium, cobalt, and nickel

Sodium chloride and sodium sulfate

Areas of numerous or widespread occurrences of one or more minerals are shown by a dotted outline. Symbols are shown inside the outlined area or by a leader. An isolated occurrence of a different mineral within such an area is shown by a dot and a leader. Examples are:

Phosphate occurs throughout area

Gold and pumice occur throughout area

Local occurrence of fluorspar at dot within an area of widespread occurrences of antimony, tin, and aluminum

Mine or prospect where mineral is unknown

METALS	NONMETALS
Aluminum	Abrasives
Antimony	Asbestos
Arsenic	Barite
Beryllium	Bentonite
Bismuth	Calcite, optical
Cadmium	Diatomite
Chromium	Dolomite
Cobalt	Feldspar
Columbium and Tantalum	Fluorspar
Copper	Gem and ornamental stones
Germanium	Graphite
Gold	Gypsum
Iron	Kaolin
Lead	Kyanite group *Kyanite, sillimanite, andalusite, dumortierite, etc.*
Manganese	Limestone
Mercury	Magnesium sulfate
Molybdenum	Mica
Nickel	Nitrate
Platinum group *Platinum, palladium, iridium, osmium, rhodium, ruthenium, etc.*	Phosphate
Rare earths	Potash
Silver	Pumice
Thorium	Quartz, crystal
Tin	Silica *Includes sand and vein material used as flux*
Titanium	Sodium chloride
Tungsten	Sodium sulfate
Uranium	Strontium minerals *Celestite and strontianite*
Vanadium	Sulfur
Zinc	Talc
Zirconium and Hafnium	Vermiculite
	Wollastonite

Base map from U.S. Geological Survey map of the State of Montana

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1967—C67197

MINERAL INVESTIGATIONS
RESOURCES MAP MR-50 (WEST HALF)

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