

EXPLANATION
FOR MISCELLANEOUS INVESTIGATIONS MAPS I-1011-1-1018

Only the land classification categories present in the quadrangle are patterned or colored in the explanation and on the map; an asterisk (*) preceding a patterned classification category in the explanation indicates that the category includes all land in the quadrangle and so, to reduce clutter, the pattern is omitted from the map. Categories not patterned in the explanation are not present in the quadrangle. All withdrawn lands are prospectively valuable for the mineral for which they were withdrawn. Land classification applies only to public lands within category boundaries. Leasable minerals are coal, oil and gas, and oil shale; phosphates or phosphate rock; chlorides, sulfates, carbonates, borates, silicates, or nitrates of potassium and of sodium; sulfur in Louisiana and New Mexico; and native asphalt, solid and semisolid bitumen, and bituminous rock (including oil-impregnated rock or sands from which oil is recoverable only by special treatment after the deposit is mined or quarried). However, all minerals are leasable on Federal acquired lands and restricted allotted and tribal Indian lands. Leasable mineral outcrops are not shown. A symbol preceding a mineral name on the selected minerals list indicates that the mineral is present in the map area. Active mines are not differentiated from inactive mines, the size and grade of the mineral occurrence are not indicated, and names are given hereon for only a few of the mines.

MINERAL LAND CLASSIFICATION

WITHDRAWN LANDS Showing withdrawal number and date (month-day-year)	CLASSIFIED LANDS
Coal	Coal
Oil shale	Oil shale
Phosphate	Phosphate
Sodium	Sodium

PROSPECTIVELY VALUABLE LANDS
Pattern on valuable side

Asphaltic materials	Known geologic structure of producing oil and gas field (KGS)
Coal	Known geothermal resources area (KGRA)
Geothermal resources	Known coal leasing area (KCLA)
Oil and gas	Known oil shale leasing area
Oil shale	Known phosphate leasing area
Phosphate	Known potassium leasing area
Potassium	Known sodium leasing area
Sodium	

WATERPOWER LAND CLASSIFICATION

CLASSIFIED OR WITHDRAWN FOR WATERPOWER OR RESERVOIR SITES

DESCRIPTION OF MAP SYMBOLS
SELECTED MINERALS - Symbol shows location of mineral occurrence or mine to the nearest 40-acre tract; multiple occurrences of a mineral within a quarter section (160 acres; 64.75 hectares) are not differentiated from a single occurrence. For cartographic reasons, an occurrence may be shown by a black dot and a leader to the symbol in parentheses.

METALLICS

Aluminum	Cobalt	Mercury	Tin
Antimony	Columbium and tantalum	Molybdenum	Titaniferous iron
Arsenic	Copper	Nickel	Titanium
Beryllium	Germanium	Platinum group	Tungsten
Bismuth	Gold	Rare earths	Uranium
Cadmium	Iron	Silver	Vanadium
Cesium and rubidium	Lead	Seelenium	Zinc
Chromium	Manganese	Tellurium	Zirconium and hafnium
		Thorium	

NONMETALLICS

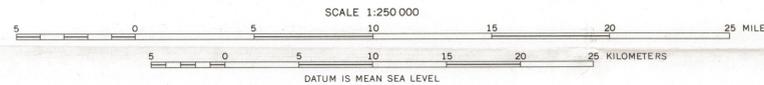
Abrasives	Clay, refractory	Iodine	Olivine
Alunite	Diatomite	Kaolin	Quartz
Asbestos	Dumortierite	Kyanite group	Serpentine
Barite	Feldspar	Limestone	Silica sand
Bentonite	Fluorspar	Lithium minerals	Strontium minerals
Borates	Fuller's earth	Magnesite	Sulfur
Bromine	Gem and ornamental stones	Magnesium sulfate	Talc, soapstone
Brucite	Graphite	Meerschaum	Vermiculite
Calcite, optical	Gypsum	Mica	Volcanic ash, pumice, perlite
Calcium chloride	Helium	Mineral pigments	Wollastonite
Carbon dioxide		Nepheelite	

SYMBOL COMBINATIONS - Certain symbols (such as silver, lead, and zinc, or uranium and vanadium) are combined into a single symbol to show several minerals at the same locality, as illustrated in the three examples below. Where cartographic reasons dictate or where individual symbols cannot be combined into a single symbol, occurrence of several minerals at the same locality is shown by a black dot at the locality and a leader to the composite symbol or series of symbols in parentheses.

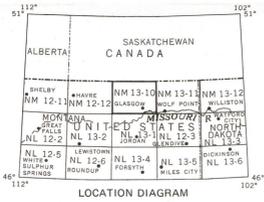
OTHER SYMBOLS

- Leasable mineral mine
- Mine or prospect where mineral is not known
- Pit (bentonite or clay)
- Gravel or sand pit
- Quarry

Base from U.S. Geological Survey, 1955-66



Interior - Geological Survey, Reston, Va. - 1977-C7637
Data as of February 1, 1976



**LEASABLE MINERAL AND WATERPOWER LAND CLASSIFICATION MAP
OF THE GLASGOW 1° x 2° QUADRANGLE, MONTANA**
Lands withdrawn, classified, and prospectively valuable for leasable minerals;
occurrences of other selected minerals; and lands withdrawn or
classified for waterpower and reservoir sites

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¹ Areas previously designated as Known Coal Leasing Areas (KCLA's) are now designated for coal leasing as Known Recoverable Coal Resource Areas (KRCRA's) (Federal Register, v. 41, no. 189, p. 42684, Sept. 28, 1976)