

EXPLANATION
FOR MISCELLANEOUS INVESTIGATIONS MAPS I-1101-I-1108

Only the land classification categories present in the quadrangle are patterned or colored in the explanation and on the map; asterisk (*) preceding a patterned classification category in the explanation indicates that the category includes all lands 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 All withdrawn lands are prospectively valuable for the mineral for which they were withdrawn.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 nitrate 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WITHDRAWN LANDS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		Potassium
	Phosphate		Sodium
	Oil shale		

PROSPECTIVELY VALUABLE LANDS
Pattern on valuable side

AREAS DESIGNATED FOR COAL LEASING
Showing name and effective date (month-day-year)

Known recoverable coal resource area (KRCRA) |

KNOWN LEASING AREAS—Defined and undefined, showing name and effective date (month-day-year). Note: Not all areas have been assigned names.

Known geologic structure of producing oil and gas field (KGS) |

Known geothermal resources area (KGRA) |

Known oil shale leasing area |

Known phosphate leasing area |

Known potassium leasing area |

Known sodium leasing area |

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CLASSIFIED OR WITHDRAWN FOR WATERPOWER OR RESERVOIR SITES |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		Germanium		Nickel		Tungsten
	Beryllium		Gallium		Platinum group		Uranium
	Bismuth		Rare earths		Vanadium		
	Cadmium		Silver		Zinc		
	Cesium and rubidium		Tellurium				
	Chromium		Zirconium and hafnium				
			Thorium				

NONMETALLICS

	Abrasives		Iodine		Olivine
	Alunite		Kaolin		Quartz
	Asbestos		Kyanite group		Serpentine
	Barite		Limestone		Silica sand
	Bentonite		Lithium minerals		Strontium minerals
	Borates		Magnesium		Sulfur
	Bromine		Magnesium sulfate		Talc, soapstone
	Brucite		Meerschaum		Vermiculite
	Calcite, optical		Mica		Volcanic ash, pumice, perlite
	Calcium chloride		Mineral pigments		Wollastonite
	Carbon dioxide		Nephtelite		Zeolite

SYMBOL COMBINATIONS—Certain symbols (such as silver, lead, zinc, and 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.

Copper, gold, lead, zinc |

Chromium, cobalt, nickel |

Uranium and vanadium |

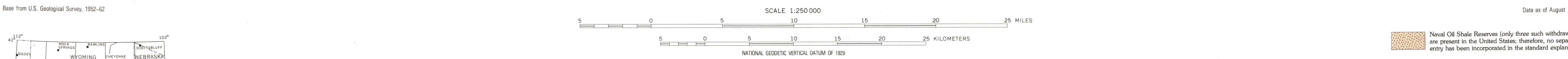
Beryllium, tungsten, and feldspar at same location |

MINE OR PROSPECT WHERE LOCATABLE MINERAL IS KNOWN—Mine or prospect is shown by a red symbol at the location or by a black dot at the location and a leader to the symbol or symbols in parentheses. Mine name shown in red.

Cattle mine—Uranium mine at location of symbol |

Eureka mine—Gold, silver, lead, zinc, and fluorapatite mine at location of dot |

WIDESPREAD MINERAL OCCURRENCES—Gray pattern indicates area of numerous or widespread occurrences of one or more minerals, identified by a red symbol circled in black. An occurrence of another mineral or minerals within such an area is shown by a red symbol at the locality or by a black dot at the locality and a leader to the symbol or symbols in parentheses. Dotted lines indicate where one widespread area of mineral occurrence overlaps another.



LEASABLE MINERAL AND WATERPOWER LAND CLASSIFICATION MAP OF THE LEADVILLE 1°x2° QUADRANGLE, COLORADO

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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