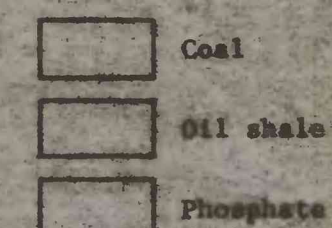


## EXPLANATION

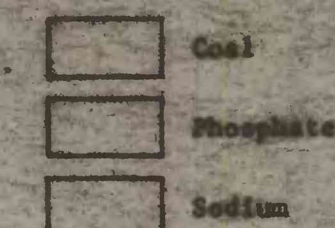
This is a standardized explanation for leasable mineral and waterpower land classification maps. Only the land classification categories present in the quadrangle are colored; however, an asterisk (\*) preceding a colored classification category indicates that the category includes lands in the quadrangle. Land classification applies only to public lands within category boundaries. Leasable minerals are coal, oil and gas, and oil shale; phosphates, or phosphate rocks, 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 allottee and tribal Indian lands. Leasable mineral outcrops are not shown. A symbol preceding a mineral name on the selected minerals list indicates the mineral is present in the map area. Active and inactive mines are not differentiated; the size and grade of the mineral occurrence is not indicated, and only a few of the mines are named.

## MINERAL LAND CLASSIFICATION

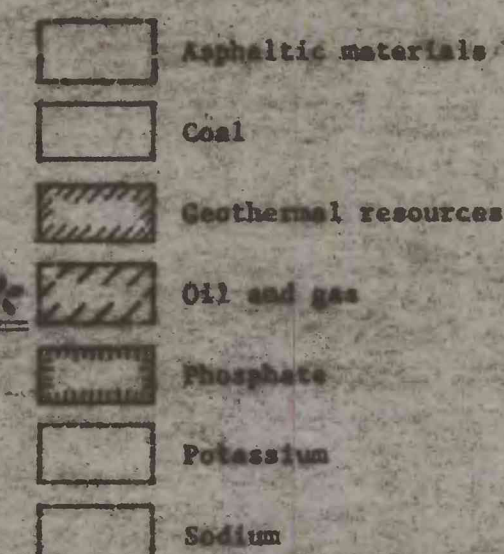
WITHDRAWN LANDS—Showing withdrawal number and date



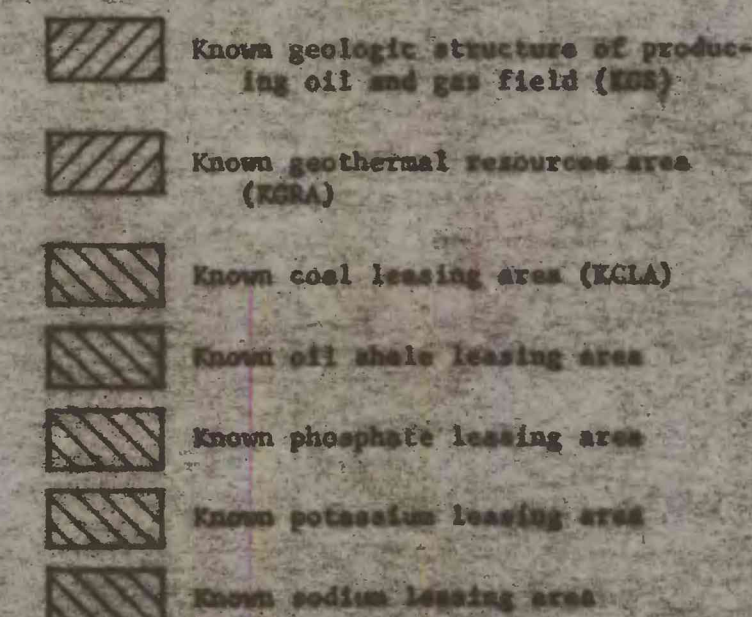
CLASSIFIED LANDS



LANDS VALUABLE PROSPECTIVELY FOR ATTENTION OF FEDERAL MINERAL RIGHTS—Indicates, where present, are on valuable side of boundary



KNOWN LEASING AREAS—Defined and undefined, showing name and effective date



## WATERPOWER LAND CLASSIFICATION

Classified or withdrawn for waterpower or reservoir sites

## DESCRIPTION OF MAP SYMBOLS

SELECTED MINERALS—Symbol shows location of mineral occurrence to the nearest 40-acre tract; multiple occurrences of a mineral within a quarter section are not differentiated from a single occurrence.

## Metals

Aluminum	Cobalt	Mercury	Tin
Antimony	Columbium and Tantalum	Nickel	Titaniferous iron
Arsenic	Copper	Platinum group	Tungsten
Beryllium	Germanium	Rare earths	Uranium
Bismuth	Gold	Silver	Vanadium
Cadmium	Iron	Selenium	Zinc
Cesium and Radium	Lead	Tellurium	Zirconium and Hafnium
Chromium	Manganese	Thorium	

## Nonmetals

Abrasives	Clay, refractory	Isoline	Olivine
Alumina	Diatomite	Kaolin	Quartz
Asbestos	Dumortierite	Kyanite group	Serpentine
Basite	Feldspar	Limestone	Silica sand
Bentonite	Fluorapatite	Lithium minerals	Strontium minerals
Borates	Fuller's earth	Magnesite	Sulfur
Bromine	Gem and ornamental stones	Magnesium sulfate	Talc, soapstone
Brucite	Graphite	Muscovite	Vermiculite
Calcite, optical	Gypsum	Nickel	Volcanic ash, sand, scoria, perlite
Calcium chloride	Helium	Mineral springs	
Carbon dioxide			

SYMBOL COMBINATIONS—Certain symbols, such as those for gold, silver, lead, zinc, copper, and molybdenum, are combined into a single symbol to show several minerals at the same locality. Other occurrences of different minerals at the same locality are shown by a dot and leader with the symbols in parentheses.

1. Copper, gold, lead, zinc  
2. Chromium, cobalt, nickel  
3. Potassium and cesium

(A.P.)—Asbestos, talc, and talciferous at same locality

MIN OR PROSPECT MINERAL IS SHOWN—Name or prospect is shown by mineral symbols or by a dot with leader to symbol or symbols in parentheses.

Carroll Mine—uranium mine at location of symbol

Smith Mine (A.P.)—gold, silver, lead, zinc, and fluorapatite at location of dot

WATERPOWER MINERAL OCCURRENCES—Areas of interest or widespread occurrence of one or more minerals are shown by a dotted outline and symbol. An isolated occurrence of a different mineral within such an area is shown by a dot and a leader to symbol.

Overlaps of waterpower areas of occurrence of different minerals are outlined by short dashed lines.

OTHER SYMBOLS

Leasable mineral mine

Mine or prospect where mineral is not known

Pit (bentonite or clay)

Quarry or sand pit

Quarry

# LEASABLE MINERAL AND WATERPOWER LAND CLASSIFICATION MAP JAMESTOWN QUADRANGLE, NORTH DAKOTA

SHOWING  
LANDS WITHDRAWN, CLASSIFIED, AND VALUABLE PROSPECTIVELY FOR LEASABLE MINERALS  
AND OCCURRENCES OF OTHER SELECTED MINERALS  
LANDS WITHDRAWN OR CLASSIFIED FOR WATERPOWER AND RESERVOIR SITES

Compiled by Andrew K. Schaefer and Larry A. Shoff

1975

All information on this map compiled as of February 1, 1975

U. S. Geological Survey

This map has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature.