

EXPLANATION  
MINERAL

- WITHDRAWN LANDS
- Land withdrawn pending classification for coal
  - Land withdrawn pending classification for coal and phosphate
  - Land withdrawn for oil shale
  - Land withdrawn pending classification for phosphate
  - Naval Oil Shale Reserve
  - Naval Petroleum Reserve

- CLASSIFIED LANDS
- Coal
  - Phosphate
  - Sodium

LANDS VALUABLE PROSPECTIVELY FOR RETENTION OF FEDERAL MINERAL RIGHTS (Hachures, where present, are on valuable side of boundaries.)

- Asphaltic materials
- Coal
- Geothermal resources
- Oil and gas
- Phosphate
- Potassium
- Sodium

KNOWN LEASING AREAS (Defined and undefined)

- Known geologic structure of producing oil and gas fields
- Known geothermal resources area
- Known coal leasing area
- Known oil shale leasing area
- Known phosphate leasing area
- Known potassium leasing area
- Known sodium leasing area

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. Each mineral occurrence is located to the nearest 40-acre tract within a section. Multiple occurrences of the same mineral within a quarter 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.

Beryllium, tungsten, and columbium-tantalum at the same locality

Certain symbols such as those for gold, silver, copper, lead, zinc, tungsten, and molybdenum; chromium, cobalt, nickel, and platinum; and uranium and vanadium 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 Uranium and vanadium

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:

Bentonite occurs throughout area Local occurrence of fluorite at dot within an area of widespread occurrence of beryllium, tungsten, and columbium-tantalum

Mine (Leasable minerals only) Mine or prospect where mineral is unknown Pit (Bentonite or clay) Gravel Quarry

METALS	METALS	NONMETALS
Aluminum	Titaniferous iron	Fuller's earth
Antimony	Titanium	Gem and ornamental stones
Arsenic	Tungsten	Graphite
Beryllium	Uranium	Gypsum
Bismuth	Vanadium	Helium
Cadmium	Zinc	Iodine
Cesium and Rubidium	Zirconium and Hafnium	Kaolin
Chromium		Kyanite group
Cobalt		Limestone
Columbium and Tantalum		Lithium minerals
Copper		Magnesite
Germanium		Magnesium sulfate
Gold		Meerschaum
Iron		Mica
Lead		Mineral pigments
Manganese		Nephelite
Mercury		Olivine
Molybdenum		Quartz
Nickel		Serpentine
Platinum group		Silica sand
Rare earths		Silicic acid
Silver		Sulfur
Selenium		Talc, Soapstone
Tellurium		Volcanic ash, Pumice, Perlite
Thorium		Vermiculite
Tin		Wollastonite
		Fluorspar

WATER

Land classified or withdrawn for waterpower or reservoir sites  
U. S. Geological Survey  
OPEN FILE REPORT

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

LEASABLE MINERAL AND WATERPOWER LAND CLASSIFICATION MAP  
RAWLINS QUADRANGLE, WYOMING, COLORADO

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 F. Bateman, Jr., Elizabeth G. Allen, and Gale A. Lutz

1974

Not all classification categories or mineral occurrences shown in the explanation are present in this quadrangle. Categories shown apply only to any public lands included within boundaries. The leasable minerals in public domain lands named in the various mineral leasing acts as amended over the years are coal, oil, gas, and oil shale; phosphates, or phosphate rock; chlorides, sulfates, carbonates, borates, silicates or nitrate of potassium and of sodium; sulphur 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). All minerals are leasable on federal acquired lands and restricted allotted and tribal Indian lands.

Lands on this sheet withdrawn for coal are in Coal Land Withdrawal Wyoming No. 1, July 13, 1910, Wyoming No. 7, October 13, 1910, Wyoming No. 13, December 1, 1911, and Colorado No. 1, July 7, 1910.

Lands on this sheet withdrawn for oil shale are in Public Land Order 4522, September 24, 1968.

No land in this quadrangle is classified as valuable for phosphate, or potassium.

Known geologic structures and known coal leasing areas are shown on a separate overlay. All information on this map compiled as of April 1, 1974.

Prepared by the Army Map Service (FSART), Civilian Engineers, U.S. Army, Washington, D.C. Completed in 1965 by photogrammetric methods and from USGS quadrangles 1:24,000, 1:62,500 and 1:125,000. 1965-51. Photometric detail revised by photo-grammetric methods. Horizontal and vertical control by USGS, USCGS and USACE. Photographic field annotated 1954. Limited revision by U.S. Geological Survey 1962.

LOCATION DIAGRAM FOR NK 13-7

46	112°											162°																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
SSA		ERWING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		