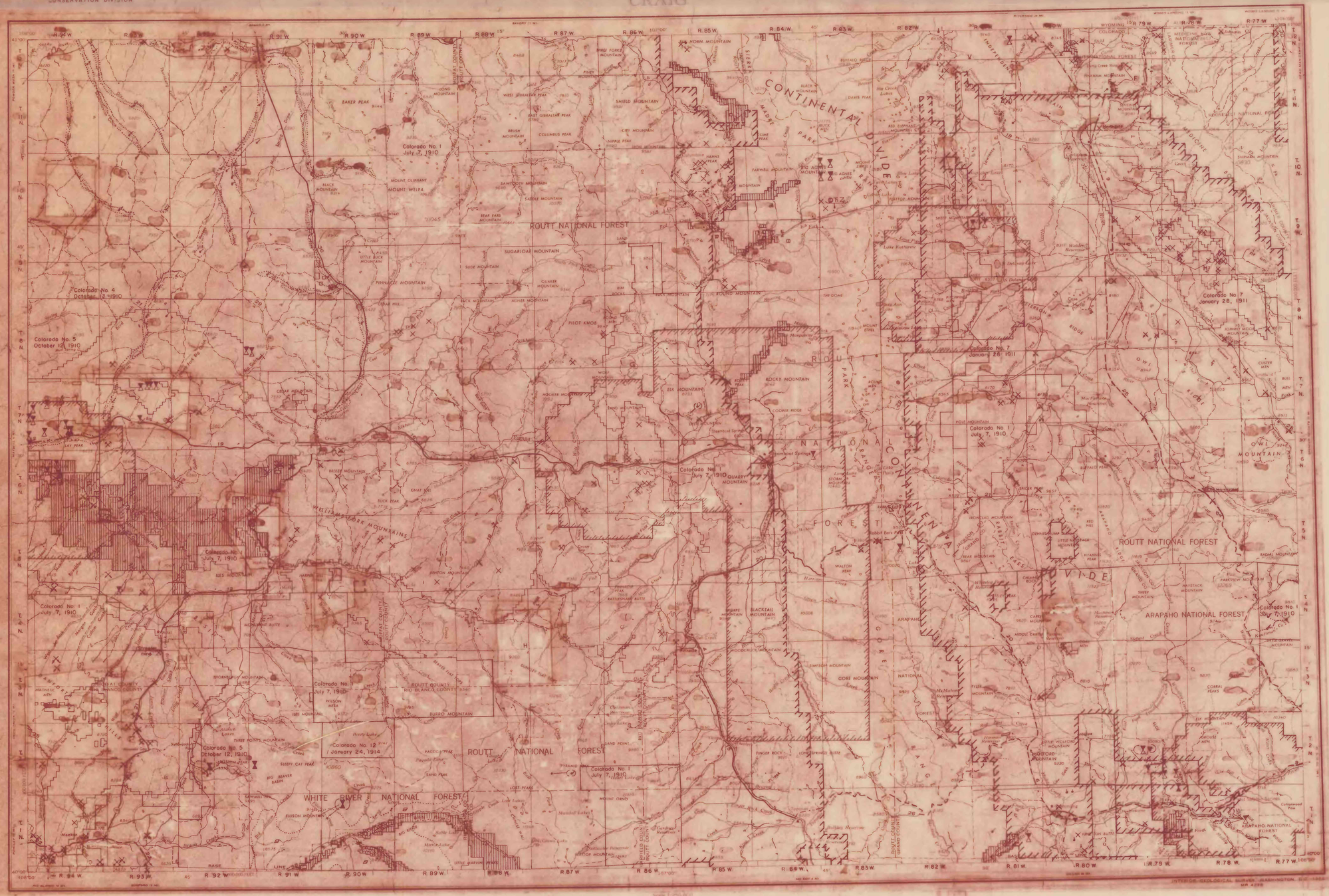
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
CONSERVATION DIVISION

76-174



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

SHOWING

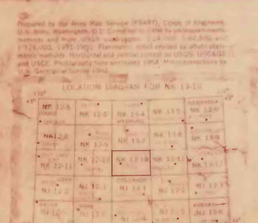
LANDS WITHDRAWN, CLASSIFIED, AND VALUABLE PROSPECTIVELY FOR LEASABLE MINERALS

AND OCCURRENCES OF OTHER SELECTED MINERALS

LANDS WITHDRAWN OR CLASSIFIED FOR WATERPOWER AND RESERVOIR SITES

Compiled by H. L. Smith, R. D. Hettinger, and G. A. Lutz

1975



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 lands named in the various mineral leasing acts as amended over the years are coal, oil, gas, and oil shale; phosphates, or phosphatic rock; chlorides, sulfates, carbonates, borates, silicates or nitrates 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Lands on this sheet withdrawn for coal are in Coal Land Withdrawal Colorado No. 1, July 7, 1910, Colorado No. 4, October 13, 1910, Colorado No. 5, October 12, 1910, Colorado No. 7, January 28, 1911, and Colorado No. 12, January 24, 1914.

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

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.

EXPLANATION

MINERAL

WITHDRAWN LANDS

- Lands withdrawn pending classification for coal
- Lands withdrawn pending classification for coal and phosphate
- Lands withdrawn for oil shale
- Lands withdrawn pending classification for phosphate
- Naval Oil Shale Reserve
- Naval Petroleum Reserve

CLASSIFIED LANDS

- Coal
- Phosphate
- Sodium

LAND VALUABLE PROSPECTIVELY FOR RELEASING OF FEDERAL MINERAL RIGHTS
(Boundaries, 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

Known reported occurrences of mineral prospects and occurrences of selected minerals (symbols show reported location of mineral prospect, but not the size or grade of the mineral occurrence. Inactive mines are not distinguished, nor is the size or grade of the mineral occurrence indicated. Each mineral occurrence is located to the nearest one-quarter-quarter 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 percentage 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 vanadium-uranium are not distinguished, nor is the size or grade of the mineral occurrence indicated. Each mineral occurrence is located to the nearest one-quarter-quarter 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 percentage with a leader and dot)

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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:

Magnetic occurs throughout area

Local occurrence of fluorspar at dot within an area of widespread occurrences of beryllium, tungsten, and columbium-tantalum

Mine or prospect where mineral is unknown

Pit (bentonite or clay)

Travel (quarry (diagnostic minerals only)

METALS

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

NONMETALS

- Abrasives
- Alunite
- Asbestos
- Barite
- Bentonite
- Boron
- Bromine
- Calcite, Onyx
- Celestite, Gypsum
- Chlorine, Chlorides
- Carbon dioxide
- Clays, Kaolin
- Diatomite
- Feldspar
- Fluorspar
- Fuller's earth
- Gem and ornamental stone
- Graphite
- Gypsum
- Helium
- Iodine
- Kaolin
- Kyanite group
- Lime stone
- Lithium minerals
- Magnesite
- Magnesium sulfate
- Meerschaum
- Mica
- Mineral pigments
- Nitrates
- Olivine
- Perlite
- Phosphate
- Pumice
- Quartz crystal
- Sand and gravel
- Scoria
- Semiprecious minerals
- Shale
- Soapstone
- Sodium
- Stone, dimension
- Vermiculite and Perlite
- Wollastonite

WATER

Land classified or withdrawn for waterpower or reservoir

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