

LEASABLE MINERAL AND WATERPOWER LAND CLASSIFICATION MAP OF THE CEDAR CITY QUADRANGLE, UTAH

LANDS WITHDRAWN, CLASSIFIED, AND PROSPECTIVELY VALUABLE FOR LEASABLE MINERALS; OCCURRENCES OF OTHER SELECTED MINERALS; AND LANDS WITHDRAWN OR CLASSIFIED FOR WATERPOWER AND RESERVOIR SITES

Compiled by E.M. Pera, J.E. Smedley, L.A. Simpson, and G.A. Lutz

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This is a standardise's explanation for learning mineral and waterpower land classification open-file 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 all 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 rock; chlorides, sulfates, carbonates, borates, silicates or nitrates of polassium 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 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

CLASSIFIED LANDS

nu	mber and date							
C	oal	Phosphate		Coal		Phosphate		
	oil shale			Oil shale	4	Sodium		
LANDS	PROSPECTIVELY VALUA F FEDERAL MINERAL RIC resent, are on valual	GHTSHachures, when	re	WN LEASING ARE undefined, sho effective date	wing nan	ined and ne and		
7	Asphaltic materials		7///	Known geologi ing oil ar	c struct	ture of produield (KGS)	1C-	
	Coal		11/1	Known geother	rmal res	ources area ((KGP	
	Geothermal resources			Known coal le	easing a	rea (KCLA)		
	Oil and gas			Known oil sha	ale leas	ing area		
	Oil shale			Known phosph	ate leas	ing area		
	Phosphate	osphate			Known potassium leasing area			
	Potassium			Known sodium	leasing	g area		
	Sodium				300			
WATERPOWER LAND CLASSIFICATION								
	Classified or withdrawn for waterpower or reservoir sites							
(Lancing Lance)	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.

Tin Mercury Cobalt Aluminum Titaniferous Molybdenum Columbium and iron ⊗ Antimony Tantalum Nickel Titanium Arsenic Copper Platinum group Tungsten Beryllium Germanium Rare earths X Uranium Bismuth • Silver Y Vanadium Selenium - Zinc Cesium and • Lead Tellurium Rubidium Zirconium and Hafnium Thorium Chromium Nonmetallics Olivine Iodine Clay, refractory Abrasives Quartz Kaolin Diatomite Alunite Serpentine

Kyanite group Dumortierite Asbestos Silica sand Limestone Feldspar Barite Strontium minerals Lithium minerals Fluorspar ∇ Bentonite Sulfur Magnesite Fuller's earth Borates Talc, Soapstone Magnesium sulfate Gem and ornamen-Bromine Vermiculite Meerschaum tal stones Brucite Volcanic ash, Graphite Mica Calcite, optical Pumice, Perlite Gypsum Mineral pigments Calcium chloride Nephelite Carbon dioxide

Wollastonite SYMBOL COMBINATIONS -- Certain symbols, such as those for gold, silver, lead, zinc, tungsten, 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 parenthesis.

Copper, gold, lead, zinc

X Chromium, cobalt, nickel

X Uranium and vanadium

•——(△ • ▽)--Beryllium, tungsten, and feldspar at same location

MINE OR PROSPECT WHERE MINERAL IS KNOWN--Mine or prospect is shown by mineral symbols or by a dot with leader to symbol or symbols in parenthesis.

X Carlile Mine--Uranium mine at location of symbol

• — Eureka Mine (♥F)--gold, silver, lead, zinc, and fluorspar mine at location of dot

WIDESPREAD MINERAL OCCURRENCES -- Areas of numerous or widespread occurrences 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 widespread areas of occurrence of different minerals are outlined by short dashed lines.

OTHER SYMBOLS

X Leasable mineral mine

X Mine or prospect where mineral is not known

X Gravel or sand pit

+ Pit (bentonite or clay)

U. S. Geological Survey OPEN FILE REPORT

This map has not been edited for conformity with Geological Survey saltorial standards or stratigraphi nomenclature.