

THESIS

on

The Mineral Resources of Oregon

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## THE MINERAL RESOURCES OF OREGON

A mineral map is often of considerable value to those interested in mining work and developement. Since there are very few, if any such maps for Oregon, we have endeavored to cover the ground, though only in an incomplete way, since the time we had for working upon it was limited and the data very meagre.

Oregon is as yet a very young state, and consequently the work done upon her mineral lands has been limited in amount. Few surveys have been made and so the records are very scarce. One or two government surveys have been made, but these do not cover all of the state by any means, so we have <sup>Labored</sup> under difficulties in this respect.

Oregon undoubtedly has a promising future before her as a mineral state. Not only are there a large number of valuable minerals in the state, but many of the important ores, such as gold, silver, and coal, are in such quantities as to make certain a very large production in the near future. As was said before, not much development has been <sup>Carried</sup> on as yet, but the opportunity is here for those who will to take hold of, and within a few years Oregon will surely rank as one of the leading mineral states in the country.

The first work we had to do, of course, was getting the data together. We got this from several different sources. Considerable was obtained from a paper on the

mineral resources of Oregon which was written recently by a prominent mining engineer of this state. This paper gave the most of the minerals and their location by counties, but did not give the exact location of any of them, so we had to go to other sources for that. A small amount of data was found in several Economic Geologies-; also a little in Dana's Mineralogy, but was very limited, being confined those minerals especially important in Oregon.

Next we went to the government records, which as we have said before, were few and far between. From a report by the Diller surveying party in the 17<sup>th</sup> annual Geological Survey considerable information was found. Also a report of the precious metal resources of the United States furnished us with material on the gold and silver of this state. Besides these, several others government surveys and government works were gone over and data obtained here and there.

This was the extent of the official data, so we now had to <sup>use</sup> ~~a~~ another plan, since not half of the minerals had as yet been anywhere nearly definitely located. We went around to the different mining students and received what information they could give us in regard to their locality. This greatly increased our data, especially in a few counties, such as Baker, Grant, and Douglass, where the minerals are plentiful.

Even after this though, many of the minerals were not located any closer than by counties, but as



this was the limit of our available data, and in our limited time we could not get any more, we had to let them go. It will be found, we think though, that <sup>those</sup> not located are, in the majority of cases the less important ones, while the most important ones in all except one or two cases are completely located.

The next thing to do was to draw a map of the state and mark off the county lines. This being done, the map was ready for the minerals to be located on it. Every mineral was represented by a number, beginning with 1 and running up to 42. For minerals whose location were definitely known, the area wherein they occurred was enclosed by a smooth curved line and the numbers representing them placed inside this area. Where the location was only approximate, the area was enclosed by a zig-zag line inside of which was drawn a smoothly curved line and the numbers placed inside. For those which were located only by county, an area anywhere in the county was enclosed by a zig-zag line only, and then numbers put inside this area.

The map was drawn on tracing paper so that blue prints off it could be made if necessary.

Following are two tabulated lists of the minerals of the state. The first list is tabulated according to the counties, giving the minerals in each county and what part of the county they are found in. The second is arranged according to the minerals, giving for each mineral every county in which it is found and the part of the county.

# TAFULATION ACCORDING TO COUNTIES.

COUNTY	MINERAL	PART OF COUNTY
Baker	Coal	Not given.
	Arsenopyrite	All except Northern
	Silver	All except Northern
	Kaolin	Not given
	Gypsum	Southeastern
	Molybdenite	Southwestern
	Antimony	Not given
	Asbestos	Not given
	Opals	Not given
	Pyrite	All except Northern
	Copper	All except Northern
	Gold	All except Northern
	Nickle	Western
	Platinum	Western
Benton	Sandstone	Eastern
Clackamas	Asbestos	Not given
	Mineral waters	Western
	Iron	Northwestern
	Gold	Not given
Clatsop	Coal	Southern
Columbia	Coal	Southwestern
	Iron	Southwestern
Coos	Coal	Western
	Sandstone	Western, Central
	Silver	Western
	Kaolin	Not given
	Gold	Western

Crook	Mercury	Not given
	Gold	Not given
Curry	Platinum	Western
	Priceite	Southwestern
	Iridosmine	Western
	Laurite	Western
	Gold	Western
	Coal	Not given
	Sandstone	Western
Douglass	Silver	Southwestern, Northern
	Limestone	Southern
	Coal	Western, Central
	Sandstone	Western, Central
	Gold	Southwestern, Northern
	Limonite	Not given
	Nickle	Southwestern
	Realgar	Not given
	Orpiment	Not given
	Copper	Not given
	Cinnabar	Central
	Iron	Not given
	Asbestos	Not given
	Petroleum	Not given
Gilliam	Opals	Not given
	Gold	Not given
Grant	Platinum	Eastern
	Gold	Southern, Eastern
	Cinnabar	Central



	Nickle	Eastern
	Copper	Southern
	Sphalerite	Southern, Eastern
	Cobalt	Not given
	Asbestos	Not given
	Granite	Northeastern
	Tetrahedrite	Southern
	Polybasite	Southern
	Chalcopyrite	Southern
	Pyrite	Southern, Eastern
	Silver	Southern, Eastern
	Coal	Not given
Harney	Sapphires	Eastern
	Gold	Western
	Nickle	Not given
	Copper	Western
	Galena	Western
	Silver	Western
	Mineral water	Southern
	Limestone	Western
Josephine	Iron	Not given
	Kaolin	Not given
	Platinum	Not given
	Asbestos	Eastern
	Nickle	Not given
	Gold	Northern half, Eastern
	Silver	Northern half, Eastern
	Limestone	Eastern
Klamath	Nickle	Not given

	Platinum	Not given
Lake	Asbestos	Not given
	Gold	Not given
	Soda	Not given
	Salt Peter	Not given
Lane	Salt Peter	Not given
	Silver	Northeastern
	Gold	Northeastern
	Mercury	Not given
	Iron	Not given
Lincoln	Coal	Western
	Sandstone	Central
	Petroleum	Not given
Malheur	Silver	Northwestern
	Kaolin	Not given
	Gypsum	Northwestern
	Asbestos	Not given
	Petroleum	Not given
	Gold	Northwestern
Marion	Silver	Eastern
	Limestone	Western
	Sandstone	Western
	Gold	Eastern
Morrow	Coal	Not given
Multnomah	Iron	Not given
Polk	Limestone	Eastern
Tillamook	Iron	Not given
	Coal	Northern
	Sandstone	Western



Umatilla	Mineral watter	Southern
Union	Gold	Eastern
	Copper	Eastern
Wasco	Kaolin	Not given
Washington	Iron	Northwestern
	Sandstone	Southern
Wheeler	Silver	Northern
	Asbestos	Not given
	Gold	Northern
Wallowa	Kaolin	Not given
	Molybdenite	Not given
	Gold	Not given
	Copper	Not given

#### TABULATION ACCORDING TO MINERALS

MINERAL	COUNTY	PART OF COUNTY
Sapphire	Harney	Eastern
Arsenopyrite	Baker	All except Northern
Galena	Jackson	Western
Silver	Baker	All except Northern
	Coos	Western
	Douglass	Southwestern, Northern
	Lane	Northeastern
	Wheeler	Northern
	Josephine	Northern half, Eastern
	Marion	Eastern
	Grant	Southern, Eastern
	Jackson	Western
	Malheur	Northwestern

Mineral water	Jackson	Southern
	Clackamas	Western
	Umatilla	Southern
Limestone	Jackson	Western
	Josephine	Eastern
	Marion	Western
	Polk	Eastern
	Douglass	Southern
Coal	Baker	Not given
	Tillamook	Northern
	Douglas	Western, Central
	Columbia	Southwestern
	Lincoln	Western
	Coos	Western
	Clatsop	Southern
	Grant	Not given
	Morrow	Not given
	Curry	Not given
Soda	Lake	Not given
Salt Peter	Lake	Not given
	Lane	Not given
Sandstone	Tillamook	Western
	Coos	Western, Central
	Washington	Southern
	Lincoln	Central
	Benton	Eastern
	Marion	Western
	Curry	Western
	Douglas	Western, Central

Asbestos	Jackson	Eastern
	Baker	Not given
	Lake	Not given
	Douglas	Not given
	Clackamas	Not given
	Malheur	Not given
Petroleum	Wheeler	Not given
	Grant	Not given
	Malheur	Not given
	Lincoln	Not given
Opals	Douglas	Not given
	Baker	Not given
Granite	Gilliam	Not given
	Grant	Northeastern
	Grant	Southern
	Grant	Southern
	Grant	Southern
Pyrite	Baker	All except Northern
	Grant	Southern, Eastern
Sphalerite	Grant	Southern, Eastern
Cobalt	Grant	Not given
Iron	Lane	Not given
	Multomah	Not given
	Washington	Northwestern
	Columbia	Southwestern
	Josephine	Not given
	Douglas	Not given
	Clackamas	Northwestern
	Tillamook	Not given



Kaolin	Baker	Not given
	Coos	Not given
	Malheur	Not given
	Wallowa	Not given
	Wasco	Not given
	Josephine	Not given
Gypsum	Malheur	Northeastern
	Baker	Southeastern
Molybdenite	Baker	Southwestern
	Wallowa	Not given
Antimony	Baker	Not given
Platinum	Klamath	Not given
	Josephine	Not given
	Curry	Western
	Baker	Western
	Grant	Eastern
Iridosmine	Curry	Western
Laurite	Curry	Western
Gold	Baker	All except Northern
	Coos	Western
	Douglas	Southwestern, Northern
	Lake	Not given
	Union	Eastern
	Marion	Eastern
	Crook	Not given
	Wheeler	Northern
	Josephine	Northern half, Eastern
	Clackamas	Not given
	Wallowa	Not given

	Gilliam	Not given
	Curry	Western
	Lane	Northeastern
	Grant	Southern, Eastern
	Jackson	Western
	Malheur	Northwestern
Priceite	Curry	Southwestern
Limonite	Douglas	Not given
Cinnabar	Douglas	Cantral
	Grant	Central
Nickle	Klamath	Not given
	Josephine	Not given
	Douglas	Not given
	Jackson	Not given
	Baker	Western
	Grant	Easetrn
Realgar	Douglas	Not given
Orpiment	Douglas	Not given
Copper	Douglas	Not given
	Baker	All except Northern
	Union	Eastern
	Wallowa	Not given
	Grant	Southern
	Jackson	Western
Mercury	Crook	Not given
	Lane	Not given