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BALD MOUNTAIN-ELKHORN REGION

This region comprises several mining districts whose deposits are the result of a giant intrusion of granodiorite, the present exposure of which is practically of the same extent as that of the Wallowa range, or 2^{bout} 250 square miles. In contrast with the Wallowa intrusion, a northwest-southeast range of granitic rocks, the granitic exposure in this region has a very irregular outline. Its maximum dimension east and west from below the Baisley-Elkhorn mine to its limit on the lower western slopes of Bald mountain is some 20 miles; its southernmost outcrop is near the wagon read from Sumpter to Granite, and it is observed at least 6 miles north of Camp Carson on the Grand Ronde river.

Bald mountain, although 767 feet lower than Rock Creek butte (9,097 feet) and nearly 600 feet lower than several other points on Elkhorn ridge, because of its isolation from this main ridge is an object of more frequent observation and is hence better known than any of the higher points.

Consideration is given above only to the exposures of the granodiorite intrusion. The area coming under the influence of the intrusion is much greater. Its length from the old town of Auburn southwest of Baker, northwest to beyond Camp Carson is at least 30 miles, and its width from near North Powder to the town of Granite is at least 20 miles.

Elkhorn ridge then, with its series of high elevations, is the backbone of this region, with Bald mountain at one side as a partially isolated eminence. Granodiorite probably welled up underneath all *(over)* of the Elkhorn ridge as well as under much additional area on each side. Erosion has since uncovered only a part.

On the south the older rocks into which the intrusion stoped and pushed its way are nearly all argillites. To the west they are mainly recent flows, but erosion has proceeded far enough to have removed irregular patches of the older rocks next to the granodiorite.

East of the intrusion no older rocks were seen. The granodiorite is succeeded at the eastern base of the Elkhorn range by Baker valley with its glacial drift and wash of more recent time. However, the argillites to the south of the exposures of the intrusion continue to Baker valley and on southeast to Auburn, thus making up the southeastern part of Elkhorn ridge for several miles in that direction before they pass under the recent basalts of Powder river.

The limits of the granodiorite north of Camp Carson were not reached, but greenstones prevail generally west of North Powder and doubtless continue around for some distance on the northern border it is by the covering of hillside wash, basalt, and lake beds laid down to be met lower down on the Grand Ronde river by the northwestern border of recent lavas.

Ore deposits are found in granodiorite, in argillite and, west of North Powder are some in greenstone.

The mining districts are Granite and Cracker Creek, almost entirely in argillite. Cable Cove, Camp Carson and parts of the other districts are in granodiorite.