

A and B, Beaver, Lucky Seven.<sup>1</sup> In the area occupied by these

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<sup>1</sup> Marshall, J.R.: Geol. Surv., Canada, Sum. Rept. 1926, pt.A,  
p. 40. Ann. Rept., Minister of Mines, B.C., 1928, p.75.

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claims and on much of the nearby western slope of Thornhill mountain the small inclusions and roof pendants in the albite-rich intrusives are highly altered to dark green and, more rarely, light grey material. A shear zone followed by a creek extends north 55 degrees east up the mountain and dips from 45 degrees northwest to vertical. In most places the shear zone shows some evidence of having been slightly mineralized and it is said also to carry small lenses of quartz and sulphides.

There are many mineral showings on the hillslope. The deposits have a very varied content, but most are quartz veins with chalcopyrite, galena, sphalerite, and pyrite, and some carry free gold and some hematite. Practically all the showings observed by the writer are in or near small masses of dense green rocks. In places where it extends from the volcanic rocks into the albite-rich intrusives the mineralized zone may be clearly seen to dwindle and cease. The deposits locally are small lenses,

pockets, stringers, or irregular masses. In one place three of these have been mined out and the total production was only a few tons. In some places widths of 3 to 6 feet are observable, but most of the bodies are lenticular and some of the widest are perhaps only 10 to 50 feet long. The sizes of the deposits appear to be related to the sizes of the volcanic masses in which they occur. Many of the deposits are approximately horizontal and are related to the main shear zone. Stringers can be traced in places directly to the shear zone and it would appear that solutions moving along this zone left it to enter the small fractures along its sides.

Some very rich pockets have been found. It is reported that 200 ounces of gold was secured from one small lens and 35 ounces from two other small pockets. Some was so rich that the gold was mortared out of the quartz. On the average, however, the gold assays are reported to have been less than 0.5 ounce a ton.