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salt water and the sallal thickets, are to be found in great numbers. Personally I cannot imagine a more ideal spot to spend a couple of weeks camping during the warm summer months.



THE AUTHOR, DR. MARSHALL, AT THE HOT SPRINGS.

To those interested in geological phenomena and in the formation of West Coast mineral deposits, there is a valuable lesson to be learned. The mineral deposits of the West Coast are frequently formed along fault planes, and many of the copper deposits are found in rock formations similar to those which form the peninsula. In the fault plane at the end of the promontory, we have actually a mineral lode in process of formation which does not, however, necessarily contain copper.



CLEFT IN ROCKS THROUGH WHICH THE SPRING FLOWS.

It would, however, be interesting to examine the spring for traces of this metal, as this spring is situated on the outskirts of an important copper-bearing mineral belt.

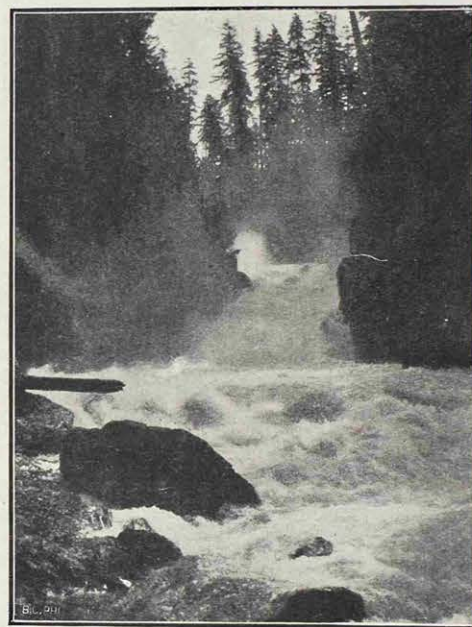
#### THE MINERAL INDUSTRY ON THE COAST, VANCOUVER, TEXADA AND PRINCESS ROYAL ISLAND, DURING 1901.

By W. M. BREWER, M. A. I. M. E.

**W**HEN the progress during the past year is considered, on the basis alone of actual accomplishment, there is apparently little cause for exaltation one way or the other. So far as the coast mines

are concerned, except as regards the property owned by the B. C. Exploring Syndicate on Frederic Arm, there has been no development performed. On that property a force of miners have been kept at work continually, and according to the reports of the superintendent, Mr. Joseph Argal, the operations have been quite satisfactory. The ore body which has been exposed in the higher levels, has also been exposed on a lower level, after running about 1,000 feet of crosscut tunnelling and upraising. The extent of this body has not yet been determined, but the company is continuing its very admirable policy of steadily prosecuting development work in order to determine the capacity of the mine before attempting to ship or treat ore.

On Howe Sound, a reorganisation of the Britannia syndicate has been perfected, by which Montana men



POWELL RIVER—MIDDLE FALLS.

have secured control of the property, and although no work has been done in the mine itself during the past year, yet surveys have been completed for tramways and roadways to insure transportation facilities from the mine to the beach. It is confidently expected that these will be built early in the coming year, and the necessary machinery installed, in order to commence mining operations on such a scale as is warranted from the development work which was carried out during 1900.

Considerable prospecting and assessment work have been done at Howe Sound, within ten or twelve miles from the Britannia group, and several of these prospects will apparently develop into mines of commercial value.

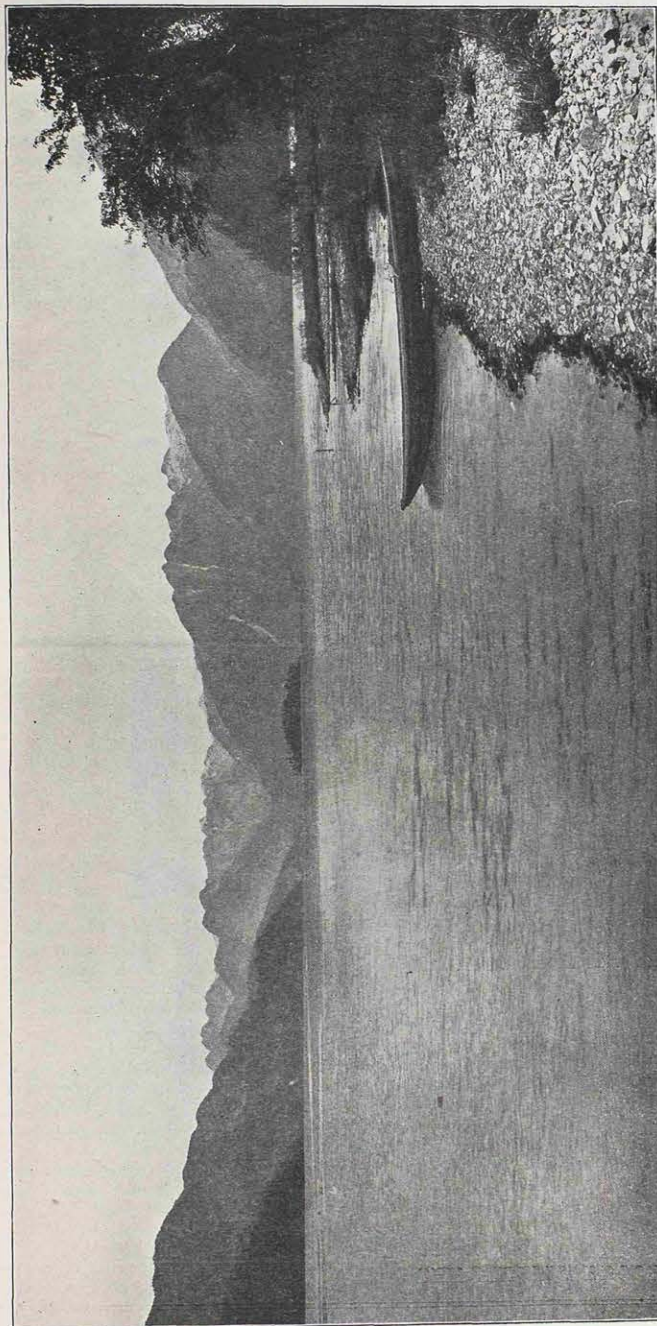
On the Seamore creek, within fourteen miles from Vancouver, there has not been the activity which was expected from the representations made by the owners of prospects in that region during the fall and winter of 1900 and 1901. The work done there has merely taken the form of assessment work, which the owners of the properties, assert has resulted very satisfactory, by ex-

posing such conditions with regard to the ore bodies as justify them in the confidence they feel in regard to the future of the camp.

Crossing from the Mainland to Texada Island, a review of the year's work warrants the conclusion that on the whole the progress has been very satisfactory.

The Marble Bay mine has been shipping a high-grade gold-copper ore almost continuously during the year. Several months the output has been from this one property a thousand tons per month. A large gang of men have been employed continuously in the mine, and when the grade of ore is taken into consideration there is no question but that the operations have been very profitable. The shipping ore from this mine varies in value from \$5 to \$20.00 per ton in gold, about 5 oz. of silver, and an average of 5 per cent. dry assay of copper. It is impossible to give the exact figures showing the profits, because the mine is owned individually by a Mr. J. J. Palmer, of Toronto, and consequently no publication with regard to profits is made. The development has been extended to a depth of 360 feet, but the ore has been only staked from above the 260-foot level, leaving the last 100 feet of sinking entirely in virgin ground. The ore body in this mine has maintained its continuity from the surface to the lowest level, its measurements though have varied, as is always the rule in ore bodies of this character, which occur at the contact of limestone and felsite, or limestone and diorite. Production of the property during the past year has been good. The mining plant has been added to by the purchase of a complete concentrating plant with a capacity of 120 tons a day, a sawmill and increased hoisting capacity, the latter machinery has been installed and it is expected that the other will be in operation early in the coming year. When the concentrator is installed the management will have an opportunity to treat the large tonnage of second grade ore which has accumulated on the dumps.

Owing to financial embarrassments the progress on the Van Anda companies' properties, has not proceeded as far as otherwise would have been the case; in fact, for several months the properties were closed down entirely, but the operations which have been carried on, on behalf of the bondholders and latter by a syndicate of prospective purchasers, have been highly satisfactory. The ore bodies have been found to contain the continuity as well as grade, and the writer has no hesitancy in saying that the financial embarrassments which have harrassed this company in the past, have been caused by a mistaken policy of the management rather than through deterioration of the ore bodies. The development of the Cornell has been extended 100 feet deeper, where a station has been opened, drifting and cross-cutting done, which have resulted in



PITT LAKE.