

The concentrating scheme, briefly outlined, is as follows: The ore from the mine is coarsely crushed and wet-screened, passes on to a travelling picking-belt, from which waste and clean ore are picked off, going respectively to the waste dump and shipping-bins, while the remainder is delivered by the belt to coarse crushing-rolls and sizing apparatus, and eventually passes to a series of jigs, which produce headings, which go to shipping-bins; while the tailings, in the coarser sizes after re-crushing and re-jigging, all find their way to a fine-crushing plant and to a series of Hardinge mills, in which they are finely crushed and mixed with the oil, which is the first step in the oil-flotation process of the Minerals Separation Company. As will be seen, the only materials thrown away, after leaving the picking-belt, are the tailings from the flotation process. An experimental unit, of some 50 tons a day, of this flotation method has been in operation for a year with such satisfactory results that the company has now practically rebuilt its mill to conform to the requirements of a flotation plant capable of handling the entire product of the mine, which now is almost completed. Until the experimental stage of adjusting the new plant to the particular requirements of the ore has been passed, the company does not appear desirous of giving information for publication.

On Texada Island, the *Marble Bay* mine has continued its operations during the past year and has made regular shipments. Details of the work done or of the output made this year have not been received as yet; it is thought, however, that the product this year will be less than in 1912. The output in 1912 amounted to about 18,000 tons of ore, containing some 2,000 oz. gold, 20,000 z. silver, and 1,000,000 lb. copper.

The *Cornell*, formerly leased to Dr. Tanzer, of Seattle, has now been leased to other parties, who are reported to have found a body of high-grade ore within a few feet of the old Tanzer workings; this is now being developed. No material output is expected from the mine this year.

The *Copper Queen*, it is reported, has been bonded by the Granby Company, and will be thoroughly investigated.

It cannot be learned that any important work was done on the *Little Billy*, nor that any shipments were made.

Nothing new has been heard as to the *Iron* mines, on the west side of Texada Island, and no work has been done there.

The lime-quarries on the north end of the island have been in operation, but it is estimated made a decreased product.

On Vancouver Island there has been some work going on on the west coast, where the *Kallapa* is reported to have shipped between 100 and 200 tons of ore carrying gold. Other development-work is going on in the vicinity of Clayoquot sound, but no shipments have been made.

It is reported that the Ptarmigan Mines, an English company holding a number of claims in the Big Interior basin, has been engaged in building a road and tramway from Clayoquot sound in towards the claims; no news has been received as to work actually done on the claims.

The old *Typec* tramway has been purchased by the company and transported to the west coast in anticipation of its being erected there.

The assays of samples brought down by the company's engineers show very high assays in copper, much higher than was ever obtained from samplings of the *Big Interior*. It is not probable that shipments will be made until after 1914.