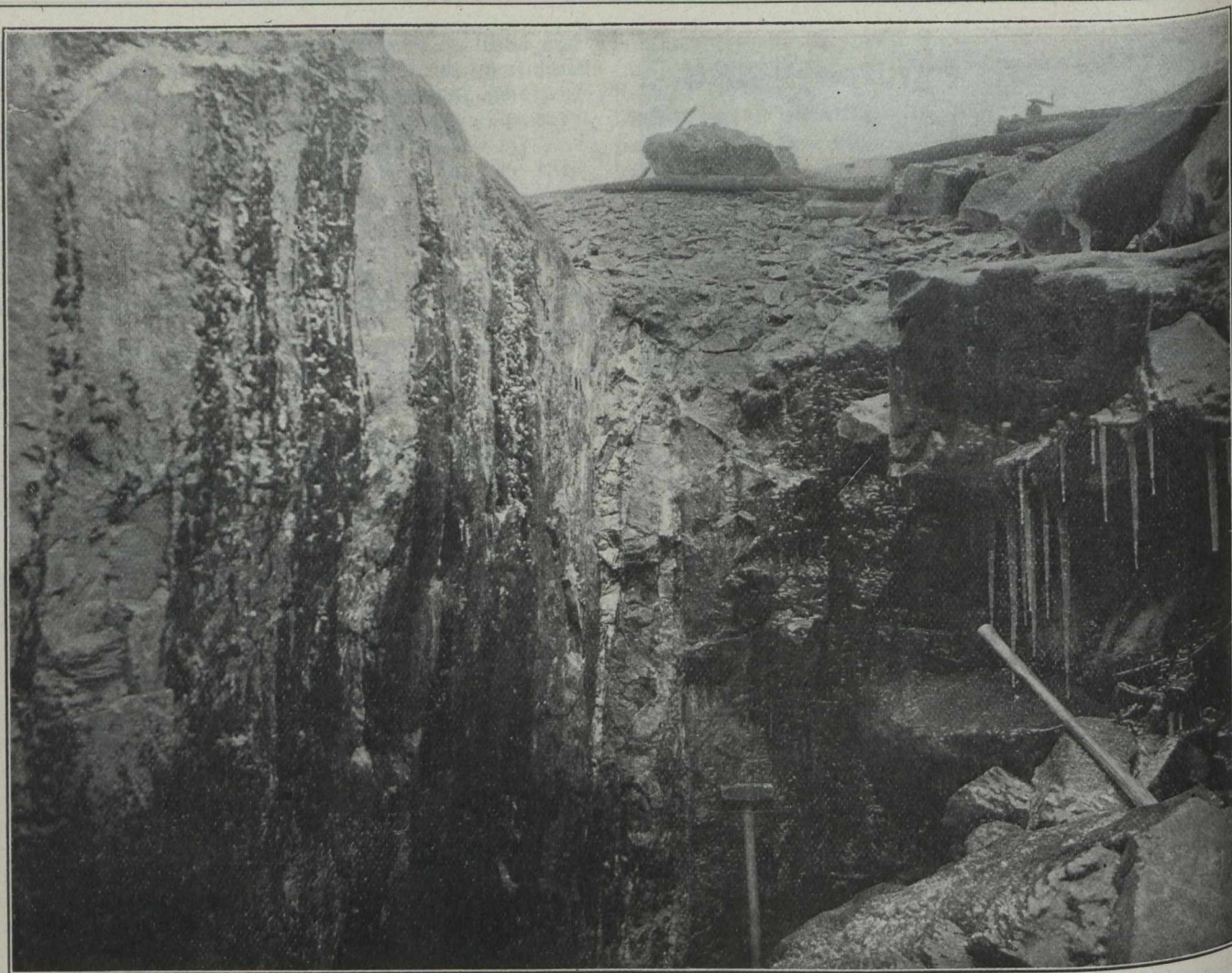




No. 4 VEIN COBALT LAKE.

cuts. During the winter the lake was surveyed, and laid out in in 66 foot sections. Soundings were taken at every 66 feet. It was found that the bottom of the lake is covered with a stiff clay, which will average a greater depth over the bottom of the lake than the actual depth of the water. This blue clay, it is supposed, will afford an impervious blanket, effectually preventing percolation, or seepage, from the lake into the underground workings.

The Cobalt Lake Mining Company has uncovered the continuation of the Nipising Cobalt vein, the largest cobalt vein in the camp. It has also struck the largest niccolite vein yet discovered. In addition to these, their three veins, Nos. 4, 5 and 6, are rich in native silver. Moreover, a continuation of the McKinley-Darragh veins

into the lake may be counted upon. And all these do not exhaust the possibilities of the property. Most assuredly the property is well situated. It would be hard to pick out 47 acres in any other part of the camp, restrict the prospecting to a 33 foot strip and attain such results within a few months.

At present the company has on hand 20 tons of niccolite, which averages 25 per cent. nickle and 5 per cent. cobalt; 12 tons of smaltite, averaging 15 per cent. cobalt. There are also 9 tons of first grade silver ore and a considerable quantity of second grade ore sacked and ready for shipment. This ore has been obtained from prospecting and development only. Drifts will be started out underneath the lake within a month. On Nos. 4 and 5 veins ore will be blocked out, and cross-cutting started to develop the niccolite vein at a depth of 85 feet. It is to be noted that the east shore of the lake shelves gradually towards the middle. This fact implies that at a depth less than that necessary to work safely under the lake, a certain amount of stoping can be done. In other words, a limited amount of ore can be blocked out and won between the shafts and the shelving shore at a depth of, say, 100 feet; while in all probability work cannot be commenced directly under the lake until the 150 foot level is reached.

Mr. D. B. Rochester, of Ottawa, is managing director, with office at the mine. Mr. E. L. Fraleck is the mine superintendent, and all the work so far accomplished has been arranged and carried out by him. The writer is indebted to both of these gentlemen for their kind assistance and hospitality.



No. 5 Shaft Cobalt Lake, Middle of March.