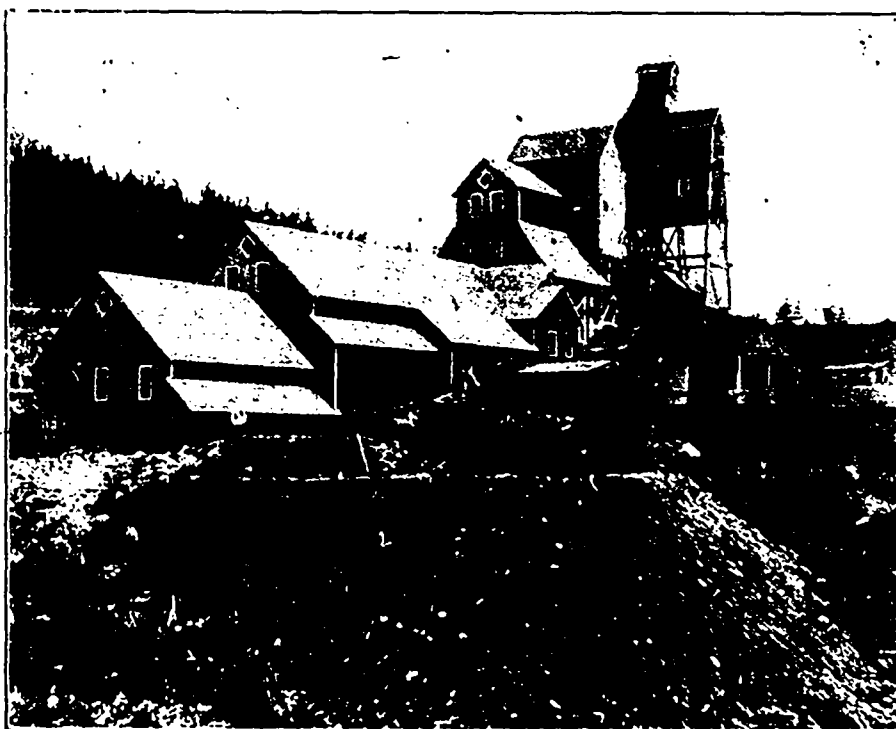


the final result will be the production of a matte concentrating about 20 to 1, meaning that the cost of freighting and smelting 19-20ths of the ore will be eliminated from the mine charges.

The percentage of coke to be used will not exceed five and it is intended to produce charcoal upon the ground as it is found that this will be cheaper than bringing in coke by waggon. Lime has not been discovered in a usable condition, but this is got over in the manner above indicated. Water there is in plenty on the hillside for the mill and as far as the reduction plant or stack is concerned the mine is making some 150 gallons per minutes, drained through

ment of the White Bear, having duly in mind the returns from the Elmore process as employed upon the Le Roi No. 2, are now completing the erection of a 100-ton plant at the mine. As will be seen from the accompanying cut, the headworks of the property are utilized to run the ore as hoisted into the crushers where it is sufficiently broken to be conveyed to the stamps and go thence over the Wilfley tables through the oil process as described previously in the *Mining Record*.

It is anticipated that the experience gained in the operation of the Elmore mill at the Le Roi No. 2 will be of value to the management of the new mill. No



Elmore Oil Concentrator at White Bear Mine, Rossland.

an adit on the 400-ft. level which will more than suffice for all present needs.

The whole process is as cheap as it is efficacious and its success will no doubt stir up other properties with facilities that are even better to make a like attempt. It is this, together with the novel treatment of the mill, which lends interest to the whole scheme of working.

Mr. Andrew Larson has been placed in charge of the property.

#### THE NEW ELMORE CONCENTRATOR AT THE WHITE BEAR MINE, ROSSLAND.

**D**ESPITE the various experiments that are being made at the Velvet, War Eagle and Le Roi mines as to water concentration the manage-

ment cost will be entailed for crushing, or but slightly more, in the new plant as against its predecessor, as the capacity will be about the same. Instead of the Trent mills stamps will be employed, but whether in a future mill the stamps will always be employed instead of the Trent mills, remains to be determined by experience.

The cost of running the 100-ton plant will not be much larger than for the 50-ton plant set up last autumn, but the production of ore will be twice as large. Again, experience will have taught the management that it is advisable to generally have on hand a large store of oil, coal and supplies, so that there shall supervene no such difficulties in winter as occurred last season.

These new factors in the equation, together with the reduction of the cost of the oil by nearly one-half,