

would easily show as good or better results from the same ore. I was present in New York and saw these tests made. I am convinced of their thoroughness and correctness.

ROUTE TO MINE.

In regard to starting the mine, I would advise taking in the machinery and supplies by way of the railway to Savanne, thence by the chain of lakes and Dawson's Portages to the head of Lake Shebandowan, and thence over the old road, cut out several years ago, $12\frac{1}{2}$ miles to the mine. By this route, a passable winter sleigh road can be made available at a trifling cost for the first winter's use. The machinery should be taken to the mine in January, when the ice is good and before the snow gets deep. This route could not be used to advantage in the summer, but by spring the new one by Barril Portage could be opened out for traffic—the latter consists of one stretch of land and one by water to the railroad.

COSTS OF OPERATING THE MINE.

I would recommend starting the mine on a basis of 14 tons a day by using two batteries (10 heads) of stamps with copper plates for catching the free gold attached. Also two of Frue's vanner's for concentrating the tailings from the free milling process. As shewn by the tests, the copper plates would catch about \$26 per ton gold, bullion, cash on hand as produced, which of itself would far exceed the expense of operating the mine. The product of the concentrations at \$82 per ton after all expenses in connection with shipping and treatment were deducted would yield an additional profit of about \$35, per ton of concentrations equal to about \$4 to the ton of ore. In a short time the mine would be self-sustaining, and in less than 6 months it would be able to pay back all the working capital invested. Its capacity should be increased as results would justify. I have made enquiry as to the best machinery and the cost of the same. I have also made close estimates of the cost of getting the machinery and all necessary supplies to the mines, and also of the cost of operating, and of the yield of bullion from the mine, which, as near as I could calculate, would be as follows :

Allowing that work was commenced by the first of December, the