

process it would work to the best advantage until lately, so that it was, to a certain extent, enveloped in uncertainty.

Now the obstacles to the working of the mine are removed. The Indians have been settled with by treaty with the government, and the C. P. Railway was opened for business on the 18th of this month. Savanne, one of the railway stations 70 miles from Thunder Bay is connected to the mine by about 25 miles of water on Lac des Milles Laes to Barril Portage and 15 miles by land between Barril Portage and the mine. Again the complete tests hereafter referred to made by the two leading metallurgical works in New York of a ton of the average ore from this lode prove beyond a doubt that it is a mine of great value and that it will require but a comparatively small amount of money to make it begin yielding returns as will be shewn further on.

#### GENERAL FEATURES.

The property consists of flat, mossy, low land with undulating rocky ridges covered mostly with sandy soil suitable for grain and roots. Both high and low are well covered with the usual timber of the district, suitable for mining purposes; there is also a small stream of water running within 50 to 100 feet of the lode in an admirable position, for supplying the stamp mill for washing purposes. For the most part of the year there is plenty of water, and with a small expenditure, it can be made to supply all requirements for all seasons.

#### CHARACTER OF FORMATION.

The rocks on the location consist of semi-crystalline greenish slates, talcose, chloritic, dioritic, &c., with massive diorite and silicious magnetite, all interbedded and conformable with one another, and dipping at a high angle  $60^{\circ}$  to  $80^{\circ}$  towards the N. W. About a mile to the N. E. these strata, are displaced by an intrusive syenite, an allied rock to granite, in which the bed of Jack Fish Lake is cut out, and it is probable that to the presence of this intrusive syenite, the existence of this gold vein is due. These rocks belong to the Huronian series. Professor R. Bell in his report of the mineral bearing rocks of Lake Superior which appeared in the "Globe," March, 1874, states, "The gold of British Columbia and other regions occurs in rocks similar to those of the Huronian series."