

struck it good." Now he has 1500 tons of ore in sight, and enough to keep the mill running for three years, which will likely yield three ounces to the ton.

The North Lead, we were informed, is working in good shape, and has never done so well.

The Parker & Douglas mine is working favorably, under the management of Roderick McLeod. The shaft on the Fraser Lead has been sunk to the 100 foot level, showing pay ore the whole depth.

A large force will now be placed on this lead to work it for all it is worth. Some rich nuggets were also taken out of the South Lead this week. The prospects, we are informed, now look more encouraging than they have for a year past.

The Boston Gold Mining Co. are taking out very rich ore. Last month the yield was 365 ounces, and this month may give a like result. This week the mill is testing a few tons from the Nine Boulder Lead.

Mr. Ballou, the manager, feels proud of his mill, which was manufactured by the Truro Foundry and Machine Co.

Adjoining this mine is the Fisk Block, and the rich leads discovered on the Boston mine run through this property. At present Charles K. McLeod is taking out ore from the Nine Boulder Lead, which at the place they are sinking is in two leads 9 and 4 inches wide, all showing gold.

Adjoining this property is the Nelson Block, where Mr. McLeod is also taking out quartz, which he will shortly have tested in the Malaga Co.'s mill.

The Caledonia mine is having some prospecting done on some of the leads, which will be tested in the P. & D. mill this week.

The location of Molega, without the additional attractions of gold, overlooking the picturesque Ponhook and Molega Lakes, is one of the most charming in the Province, and none should overlook a visit to Molega. Deep regret is expressed because of the burning of the More Bros. steamer.

The valuable property of the Philadelphia Gold Mining Co. at North Brookfield, was sold at auction by Sheriff Drew on Wednesday last to Messrs. Gilbert Parker, Roderick McLeod, Nelson F. Douglas and George Kenty. No doubt this mine will now prove a bonanza to the new owners. —Gold Hunter.

The explosives committee, appointed by the Provincial Government met at Stellarton yesterday. Mr. E. Gilpin, Inspector of Mines; Mr. H. S. Poole, of the Acadian Company; Mr. R. S. Brown, of the General Mining Association; Mr. H. Rae, Spring Hill; Mr. Thomas Johnston, Westville; and Mr. R. Crosby, of Cow Bay, compose the committee. They are to enquire into the merits of different explosives and ascertain which if any may with safety be used in gaseous mines. It is hardly probable that any definite conclusion will be arrived at the present meeting, as it may take some time to arrive at a correct solution.

THE TRANSMISSION OF POWER BY ELECTRICITY.—The *Bulletin de L'electricite*, in a consideration of the problem of the transmission of power by high-tension currents, states that the official experiments demanded by the German Government from the Berlin General Electricity Company and the Cernik Metallurgical Works as to their method of transmission of 300 horse power to a distance of 180 kilos. have given results full of useful information. The problem of the electrical transmission of power seems wholly solved by the employment of high tensions, before which the notion of distance between the generator and receiver disappears. It was necessary, however, to make some reservations as to the possibility of utilizing a current of 30,000 volts on account of the difficulty of suitably insulating the dynamos and conductors under which the disruptive charges took place. The Cernik experiments do not definitively determine the question, their deviation being too limited. In the experiments under notice an alternating current dynamo giving at high pressure a tension of 100 volts communicated with the circuit of a large transformer wire plunged in oil, of which the circuit of the thin wire was joined on to the line. This, formed of bare wire of 4 mm., was supported by posts supplied with insulators and presenting a working length of 7 kilowatts, and comes at the limit of the circuit from the thin wire of the transformer also steeped in oil, of which the thick wire circuit communicates with the receiver. In the first experiment the tension at the beginning of the line was 15,000 volts, and 100 volts only at the limits of the generator. In the two other experiments the tension of the principal current was pushed to 30,000 and then to 33,000 volts, the receiver only receiving a current of 100 volts. Carefully taken measures showed that the insulation was perfect, and that no deviation was produced either in the machinery or on the line. The reason of this is that it is possible to produce and utilize without losses a current of 33,000 volts; but one cannot judge how long the insulators will resist, and the Frankfurt experiments will enlighten us on this point. The dangers arising from a disruptive discharge are less to be feared than one would be tempted to suppose. Two thin wires had been fixed, one to each of the line wires, and their ends by degrees brought together; the discharge spark was only procured at a distance of 22mm., under a difference of potential of 22,000 volts. The Helios Company have also made similar experiments and recognized that the spark burst at the respective distances of 28 and 64 mm. for tensions of 15,000 and 28,000 volts. Leadon circuit cutters being intercalated on the principal line, the formation of a short circuit was provoked, when the lead melted immediately and the current was interrupted. Such have been the Cernik experiments, the consequences of which are of a kind to alter the present working conditions of electrical energy.

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