

# CANADIAN

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*The CANADIAN MINING REVIEW is devoted to the opening up of the mineral wealth of the Dominion, and its publishers will be thankful for any encouragement they may receive at the hands of those who are interested in its speedy development.*

*Visitors from the mining districts as well as others interested in Canadian Mineral Lands are cordially invited to call at our office.*

*Mining news and reports of new discoveries of mineral deposits are solicited.*

*All matter for publication in the REVIEW should be received at the office not later than the 20th of the month it is to appear.*

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### DEVELOPMENT OF CANADIAN PHOSPHATE MINES.

It is encouraging to know that the Canadian phosphate deposits are occupying the attention of business men and capitalists outside of the Dominion. The articles bearing upon the subject which have appeared in the last three numbers of the REVIEW have been the means of convincing many, who have heretofore been skeptical as to the feasibility of profitable phosphate mining, that with proper organization and management the industry has become one of more than ordinary importance, and that the majority of the mines

in operation yield, not only a fair rate of interest on the purchase money, but a handsome profit on the working capital employed. That this condition of affairs may continue, a strict observance of careful and business-like management will be required. Economy should be as carefully studied in mining as it would be in any other business enterprise, and everything approaching extravagant organization must be religiously avoided. It is noticeable that, with few exceptions, the properties that have fallen into the hands of business men, with means at their command, have paid handsomely and continue to yield large profits. The successful miners have been those who began cautiously and proved the value of their properties before preparing to carry on permanent operations. To establish the capacity of a phosphate location is an item of no great expense, and, unlike other mineral deposits, but little time is required to prove its value. When it can be shown that a property is capable of a certain specified output, machinery and modern appliances should at once be employed that will mine, handle and deliver the mineral at point of shipment to the best possible advantage. That a great deal of time and much money has been squandered by miners doggedly adhering to the primitive mode of drilling and hoisting, cannot be denied, but the number of steam drills, hoists and tramways now employed at many of the mines is evidence that the error has been realized and the remedy applied. Last year there was but one phosphate mine in the County of Ottawa at which a steam drill was in

use, now there are no less than six, and before the close of the year it is to be hoped that the number may be doubled. The condition of the majority of the mines more than warrants the trifling expense entailed, and the cost of mining would be greatly reduced were the value of steam power more generally appreciated.

#### THE "HIGH ROCK" MINE.

The reputation of this mine has been so well established that there remains little, if any, doubt that it is one of the most valuable properties in the county. For some years it has been steadily worked, and the annual output shows no signs of diminishing; no mine in Canada has produced anything like the quantity of high grade ore that has been shipped from "High Rock," and the probability is it will rank among the best paying properties so long as phosphate mining continues to be a profitable industry. The mine has been carefully and successfully managed by the company's representative, and much of the present activity in the mining sections of the County of Ottawa is due to its productiveness.

#### THE "DUGWAY" AND "STAR HILL" MINES

are the property of the Union Phosphate Mining and Land Company, and, though it is only within the last four months that work was begun, both these locations promise to yield a vast amount of high grade apatite. The company displayed good sense in securing the services of Mr. Wm. McIntosh, formerly the manager of "High Rock," under whose able management their property is rapidly increasing in value. The present appearance of the mines must be very encouraging to the owners, every day there is fresh evidence of the vastness of the deposits, and the quantity of ore in sight will measure several thousand

tons. The ore already mined is being forwarded to the railway depot at Buckingham, and within a very short time a tramway from the mine to the company's upper dock on the Aux Lievres River will be completed and will materially facilitate transportation. Captain J. E. Smith, under whose superintendence this work is being carried on, has had wide experience in the construction of trams, and there is every guarantee that the work entrusted to him will be intelligently carried out.

#### THE "NORTH STAR" MINE

in Portland East, owned by the Dominion Phosphate Company, is a very valuable property, and that the company has a high opinion of its yielding capacity is evidenced by the amount of dead work they are doing preparatory to mining in paying ground. As was stated in the last number of the REVIEW, a open cut has been made to facilitate handling the output from the main body of ore. This was completed by contract, and the company is now engaged in running a cross-cut to further facilitate permanent mining operations. Before going to this expense, the property was carefully tested and the quantity of ore to be moved has been thoroughly established. When the company is prepared to work on the veins, a large quantity of phosphate will be rapidly mined. The quality of the ore is equal, if not superior, to the best that has been shipped from the district, several hundred tons of which have been taken out of smaller leads, converging at the main body, which were crossed in making the cutting referred to.

#### THE "EMERALD" MINE

continues to yield largely, and the daily output is forwarded to the railway depot at Buckingham. This is no doubt the most conveniently situated mine to the point of shipment, and there appears to be no falling off in the quantity of ore in sight. As