

to develop virgin properties that they own and on which are very promising surface indications. The developed mines that are being taken up by wealthy companies will become more productive in their hands; modern machinery will be introduced and capital will not be wanting for the most advantageous prosecution of mining operations.

The appearance of the mines throughout the country, the influx of capital, the opening up of new properties and the gradual rise in value of the ore in foreign markets are strong indications that the output for shipment next season will be much in excess of what was sent forward during the past summer. Another feature, which promises to popularize Canadian phosphate abroad next year, is the marked improvement in the quality of the mineral now lying at the mines, and of some that has already been forwarded to point of shipment. This year's experience has, no doubt, taught producers that it is greatly to their advantage to devote more attention, than has formerly been their practice, to the careful clobbering of their output, and, if they continue to clean up the mineral to the high state of purity which characterizes that which is now lying at the mines, shippers will have no difficulty in finding ready sale at best prices.

For the declining quotations during the past summer for Canadian apatite abroad, various theories have been advanced, but from what has come to our knowledge, we are of opinion that it has been confined to three distinct causes. The general temporary depression in the fertilizer trade has, of course, had much to do with the fall in value, and, as was stated in the last number of the REVIEW, the unclean condition of the bulk of Canadian phosphate prejudiced buyers against the mineral, while the third cause of sales having been slow, and at comparatively low figures, was the erroneous impression that went abroad as to the amount

of ore that was awaiting shipment, brought about by producers placing their output in the hands of two or three brokers at the same time for sale, who, in turn, offered it in England and Germany. The same lot being thus offered by different middlemen, conveyed the impression that the season's output was considerably in excess of what it actually amounted to, and stimulated the "bears" to action. These two last mentioned causes for the reduction in price can be easily obviated by producers sending their mineral forward in a clean state and employing but one broker to sell their output, and the MINING REVIEW will endeavour hereafter to keep dealers advised, from month to month, of the approximate amount of mineral raised throughout the district. The depression in the phosphate market is quietly passing away, and, although prices are better now than they have been, it is not premature in stating that they will rule still higher before the opening of the shipping season of 1884.

Another matter which should engage the attention of those who are interested in phosphate mining is the establishing of an assay office in Montreal where shippers could obtain analyses of their shipments before forwarding. The necessity for this is being felt more and more each year, and now that the industry has assumed such increased proportions, the combined patronage of the phosphate miners should amply employ a reliable man for this purpose.

Phosphate mining has become a very important industry in the County of Ottawa, and great improvements have been accomplished during the past few years at the mines, but in the handling of the output there exists ample room for reform which owners of properties will do well to bring about.

THE MINES.

THE "JACKSON RAE."—Of this mine little has been said in the REVIEW, as we had not been

put in possession of any facts concerning its condition, its yielding capacity, or its value. We are now indebted to Mr. Mason, the Superintendent, for a comprehensive description of the property that shows it to be justly entitled to a place among the prominent mines of the county. It is situated in the Township of Templeton, W $\frac{1}{2}$ of Lot 9, in the 10th Range, and is equipped with suitable machinery—a steam drill, hoist and ejector, all worked by the same power, are in operation. A tramway has been constructed from the end of the drift to the sorting shed, and work is conducted in a most systematic manner. The quality of the mineral is of a high grade, the past season's shipments having averaged something over 80 per cent. The mine itself is looking well and with the peculiar facilities for carrying on mining operations it should be a profitable property.

THE "POST MINE," adjoining the "Jackson Rae," it is stated, will shortly change hands and has been idle for some time back, pending the arrival from abroad of an expert to examine it in the interest of the intending purchasers.

THE "MCLAURIN MINE" is being steadily worked, and other mines in Templeton are employing a fair number of miners. One property, in the 6th Range, has, within the past few days, been leased to two gentlemen of Ottawa and Montreal, who are now engaged in equipping the mine with necessary plant for the winter's operations.

IN PORTLAND WEST the "High Rock" and the "Union Phosphate Mining and Land Company's" Mines are being vigorously worked as heretofore, and are yielding large quantities of mineral. At other mines in this township good work is being done, and in the 10th Range, on Captain Adams' lots, numerous deposits of mineral have been discovered, the result of careful prospecting.

IN PORTLAND EAST the "Dominion Phosphate Company" have, for weeks past, been working in mineral at the North Star Mine, which is developing into one of great value. At other mines in the township, the "Philadelphia," the "McLaren," and the "French Company's," there is the usual activity, and a considerable amount of mineral is being raised.

IN BUCKINGHAM TOWNSHIP the "Emerald" attracts the most attention and sufficient has been said of this property to convey some idea of the extent of its yielding capacity—it is almost unlimited—and it is expected that this mine will become more productive than ever before in the hands of its present owners, who are men of wealth and experience.

IN THE TOWNSHIP OF WAKEFIELD the "Gemmill" is developing satisfactorily and the quality of mineral continues to be of a uniform high standard.

In every direction throughout the County of Ottawa, miners are busy, and it is very satisfactory to receive the favourable reports that have reached us from nearly all the mines where active operations are in progress.

In the December number of the REVIEW we will publish a correct statement of total production in the county for the year, and, as nearly as possible, the individual output of each mine.

Phosphate Quotations.

The most recent intelligence that has reached us in regard to the probable value of Canadian apatite for the coming season is that offers have come from buyers in England and Germany for delivery next summer at 1s. 3d. per unit guaranteed 80 per cent. mineral.

We are informed that Mr. W. H. Williams, the energetic President and General Manager of the Union Phosphate Mining and Land Company, will shortly sail for England to complete permanent arrangements for the receiving of the annual output of the company's mine.

A NEW COMPANY.

A prospectus is out for the "Adams Phosphate Mining Company" (limited), the objects of which are the acquiring of certain Phosphate areas, now owned by Capt. R. C. Adams, of Montreal, to mine, buy, and sell phosphate and to buy, develop and sell phosphate lands. The capital stock of the company will be \$250,000, divided into 25,000 shares of \$10 par value each. The working capital to be \$50,000, part of which will be held as a reserve for the purchase of other lands, apart from Capt. Adams' locations, which are situated in the Townships of Templeton, and East and West Portland, comprising a total area of about 2,000 acres. These locations are offered to the company for \$50,000 cash, and 40 per cent. of the capital stock; and Capt. Adams, who