the regulations generally acceptable to the miner and at the made by Mr. Phillips he gave same time be reasonable in the expression to the following: interest of the Government. Since the publication of the article referred to, Mr. Burgess, among the miners of the North-West should be speedily dispelled, he proceeded on the 16th now in conference with the leading practical mining men, with whom he will engage in an exhaustive discussion of the various points at issue, and there exists no doubt that Mr. Burgess. who is invariably disposed to act impartially, will agree to any feasible and advisable alterations in the regulations that will have a tendency to encourage the prospectors and miners and to advance the mining industries the North-West, which promise to become of so great importance in the country.

In the Rocky Mountain district mining matters are rather quiet, pending the return of the army of prospectors who are at present exploring the Purcell and Selkirk ranges. The latter range is considered to be the richer in mineral, probably because it has been more explored, and years ago a considerable amount of mining was carried on there, but, on account of the great distance from other mining centres, it was abandoned, as less than "ounce diggings" did not The western slope of pay. the Rockies is the objective point for the majority of prospectors who have flocked from British Columbia and from the East in hundreds since the opening of spring; nevertheless a fair force of miners and prospectors will operate on the eastern side in the foot hills.

ber of the REVIEW we published the opinion of Mr J. S Phillips, Mining Engineer and Metallurgist, of New York, respecting the mineral wealth of belt in North America that ex- opening of navigation were en- pany

the alterations that would make our north western country. Among other important remarks

"The trans-continental railway of Canada will enter into and cut its way across-or in a Deputy Minister of the Interior, mining manner, costean—the on the 3rd instant, left Ottawa tions of the country, and will for Winnipeg, and being most soon enter the wide and most auxious that all dissatisfaction interesting mineral zones of the these are mostly inaccessible, and Rocky and Wasatch mountains, where intelligent observations and explorations will, in my opinion, cause Old England to be inst. to Calgary, where he is once more proud of Colonial wealth.

"This field for mining, with mountains running over 1,000 Western Dakota, Montana and America, but for west as Cariboo in British Col-umbia, as the Sierra Nevada chain of mountains is thereabout does not prevent the possibility of auriferous discoveries in gravel formations, which are very likely to be found in many valleys that have received the water washed debris from the western declivity of the previously named mountains along I have been frethe route. quently questioned by letters from England: Where is the best place to explore for minerals? and I answered both Englishmen and Canadians-Prospect the breadth of the Canadas on either side of the advancing railway, but more particularly opposite to Western Dakota, Montana and Idaho, for vein mining, and thence westward for gravel and placer gold, where vast mineral areas lie un-

explored. "When this railway is sufficiently far advanced, the north and south branches of the Saskatchewan River, the Arthabaska, and Peace Rivers, and the Rivers Liard, Peel, and Me-Kenzie, will be found also convenient for both prospection and power for mining this 1,000 miles long of the east slope of the Rocky Mountains, whilst the five branches for mining the head waters of the great Yukon River may be utilized for the In the September, 1883, num-north-western slope with its spurs and parallel range. A few immense fortunes along this country.

poses superior inducements, and abled thus to realize almost as there is probably nothing on this good a price for their shipments continent but the unexplored as was obtained last year. Aseastern slope of the mighty Andes, which extends 4,000 miles from north to south through the several rich countries of Columbia, Ecuador, Peru, Bolivia, the Argentine Republic, and Patagonia; but Canada has the great advantages of your own language, laws, and flag; whilst more particularly so to foreign-

## CANADA'S PHOSPHATE TRADE.

The reports that have reached us from the mines during the month are of a most satisfactory milesnortherly, the whole breadth nature, and the managers of the of the Canadas, will probably different properties predict a extend across the longitudes of very large output for the year. Besides the more extensive mines Idaho, of the United States of in operation many smaller ones lode or have been opened since the snow vein mining will not reach so far left the mountains and new ground is being broken daily throughout Ottawa revealing the fact that the broken and detached for a few Townships of Buckingham, East hundred latitudinal miles. This and West Portland, Derry and Bowman are likely, for the future, to be the chief phosphate producing localities. Some of the mines in Templeton and Wakefield, whose reputations have already been established, will, in all probability, continue productive for years to come; notably, those owned by Messrs. McLaurin & Blackburn, J. A. Gemmill and M. Haldane & Sons. The industry has been placed on a more permanent basis than formerly, and proper attention is now being directed to practical mining and to shipping the output of the mines in as pure a state as possible, by separating the mineral from toreign matrix so far as it can be done by hand manipulation. Some of the large producers contemplate the erection of suitable machinery that will supersede hand cobbing and bring the output of their mines up to a high state of purity at a much reduced cost.

It was expected by some that the reduced value of raw phosphate rock that ruled in the English market at the beginning of the year would have had a tendency to discourage the miners, but such has not been the case, and the mines have been as actively worked during the past six months as at any time since this brave and strong men may make industry was started in the Those who availed range of mineral-bearing strata. themselves of the low rates of I know of no other unexplored freight from Montreal at the more productive. The Union Combelt in North America that exponenting of navigation were entrany owns 1,300 acres of

suming that the present price of phosphate in England and on the continent of Europe should not vary, and that freights should continue to rule at the average for the past five years, it would be difficult to point out any industry or mining venture that will return a handsomer profit than phosphate mining when directed by good management and economy. According to the present English quotations for Canadian apatite, 80 per cent. mineral is worth, say at Buckingham Station, eighteen dollars per ton, and the average cost of mining and delivery at this point, from all the mines in the Rivière du Lievre district of the County of Ottawa does not exceed ten dollars per ton; thus returning to the miner the very handsome profit of \$8 per ton, equivalent to 80 per cent. on his outlay. The experience of the past few years has proved these figures to be practically correct, and the owners of mines are thus enabled at the close of each day's work to estimate to a nicety the result of their opera-

## THE MINES.

High Rock Mine.-Since the arrival of Mr. Pickford, President of the Company that owns this valuable property, from England, last month, important changes have been made at the mine, and an entirely new management organized; steam-drills, hoists, etc., have been introduced, and it is thought that a larger quantity of phosphate will henceforth be raised, and at a reduced cost. Some extensive deposits have been discovered on the property during Mr. Pickford's visit and are being opened up. Under the new organization Mr. P. H. Smith controls the Mining Department, and Mr. S. Hicks has the general superintendence of transportation from the mine to Buckingham Railway Station, from which point the output of the mine is consigned to Messis. Wilson and Green, of Monthe appointed treal, managers and agents.

Star Hill Mine .- Mr. W. H. Williams, of New York, President of the Union Phosphate Company, recently returned from the company's property and reported everything going ahead to his entire satisfaction. This company began work about a year ago, and up to the present time the operations have been confined to a very limited space, within an area of about two acres, from which upwards of 3,500 tons of excellent phosphate have been raised and the deposits are becoming