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ather in, either, 1883, number of the 394Him Miniku Review is the first tion issued under a new/manageat. It is the intent of the blishers to continue the mublican of the REVIEW as a monthly per, devoted to the mining inters of the Dominion of Canada; mat attention, however, will be en to the mining industries in Ottawa Valley and Manitoba, as. c be seen by the articles appearin this number. Information Fring Canadian Lines and ineral Lands is respectfully solicitby the publishers, who assure respondents that all reliable inmation of this nature will and ice, without prejudiced comment, the columns of the REVIEW. This per hus an extensive circulation rouchont the Dominion of Canada, the United States, in Great itali and in Europe, and one of objects is to bring the owners of peral and other lands into closer ation with capitalists seeking intment, with a view to the speedy clopment of Canalian mines; d, in order that our aim in this ection may be stained, a liberal port from both parties will be The advertising columns the mpc. are always open to so why have properties for sale, to intending purchasers, as well to incrchants generally; dealers machiners and mining supplies The the REVIEW a valuable adtising medium.

A Alersa all Correspondence he Publishers CANADIAN ATINING eden Withward Cost

We just to call attention to The TIDN;

## PHOSPHATE MINING.

OTTA

reapi

This is becoming a most impor-tant industry in the vicinity of Ottawa, and has already developed to such an extent that it is difficult to say how soon it may throw the lumber interests completely in the shade. It is not many years ago that this mineral was comparatively unknown to the inhabitants of the Ottawa Valley, while to-day there is an activity prevailing at mines throughout the phosphate district that would do credit to a people who had spent their lives in a 'mining camp.

During the past winter the road on the ice of the Rivière du Lièvre, leading to Buckingham Station on the line of the Canadian Pacific Railway, presented a busy scene, such as had never before been witnessed in that locality. Hundreds of teams were engaged in hauling phosphate from the various mines, and by the time the ice gave way on the river, and hauling became impracticable, no less than 10,000 tons of first quality ore, running as high as 85 per cent. of phosphate lime, besides many hundred tons of second quality (60 per cent.) had been delivered at the station ready for shipping. In addition to this, about 1,500 tons in all were delivered at the Templeton Station on the line of the same railway. This far exceeds in quantity the output of any former year, and is attributed, mainly, to the prevailing high price offered for ore, and to the fact that many of the most productive properties have fallen into the hands of English, French, and American companies.

The great drawback experienced heretofore by those engaged in mining was the want of capital to prosecute operations to advantage. Mining had to be carried on during the whole year, while delivery of the output could only be made in winter, thus necessitating a continuous drain on the funds of the tilizers, and preserved by them as

in the County of Ottawa were not. In France, Spain, Norway, the men of means, but, for the most West Indian Islands and in South part, farmers and men of limited Carolkir, phosphate mining has resources. To day the more will been carried on for many years. Able developed properties are ton-table developed properties are ton-

selves; so d and correspond. ling phosphate zo. Courty of Ottawa exten west boundary of the Towns. Hull, about 8 miles north from the Ottawa River, and the ing a au northeasterly direction, and the G through that township and the dution townships of Wakefield, Templeton, has by East and West Portland, Bowman listation. it is express and others north and east of those named. This belt is from 8 to 10 the mines during the summer, s miles in width, and is clearly de- of the mines being so it it as to fined in the maps and on the reports published by the Canadian Geological Department. There is ample field for many times the amount of

capital now employed in this district, and virgin properties are yet to be had that will, without doubt, equal in richness any of those at present in operation; all they require is developing, and, to accomplish this, capital alone is necessary.

It has been estimated that the cost of mining and delivering the mineral at different points for ship ment varies from \$4 to \$7 per ton, according to the location of the mine and the nature of the deposits. and, as the price paid for the high grade ore is about \$21 per ton at the railway station, it may be seen what a handsome profit is derived by those engaged in mining. It is claimed for the Canadian apatite that it is of a superior quality to that found in any other part of the world, on account of its purity and for its high percentage of phosphate of lime. Specimens of it were ex-hibited at the Centennial Exhibition. in Philadelphia in 1876, and attracted considerable attention from those familiar with the mineral. Many specimens were also exhibited at the Paris Exposition in 1878, and some phosphate crystals, sent there by a gentleman of Uttawa, were eagerly bought up by English and French merchants engaged or interested in the manufacture of ferminer for nearly nine months, rare curicaities ; some of these er The promoters of the enterprise tals weighed as much as 800 lbs. rare curicsities ; some of these crys-

and sentents, in another solumn, who are conducting their operations having been as follows: in 1878, the world's stock of the precious method for sale. True reducing the conducting their operations having been as follows: in 1878, the world's stock of the precious internation of sale. True reducing the ore at a mini-control lands for sale. True reducing the ore at a mini-cont all properties mentioned scale, producing the ore at a mini-sein will be forwarded, on appli- name of cost, employing an energiber of the 1882, 1719, 11,927 tens; 1881, 15,601 1882 is approximately estimated we on, by the tublishes of the main single of local labour, error. The figure of the entire out of the entire out of the entire out of the figure of the entire out of the figure of the entire out of the entire out

deliver.

3,500 tons will be forwar.

render delivery practicable at any season of the year. This augurs well for the future of Ganada as a phosphate producing country, and, judging from the rapid progress made during the past three years inthe development of the apatite deposits in the Ottawa Valley, there remains little doubt that this Dominion bids fair to become, at no distant day, an important competitor in supplying the markets of the world with this valuable mineral.

The latest advices of the ruling price offered for Canadian phosphate in England quotes it at 1s. 4d. perunit for 80 per cent. phosphate of lime, with one-fifth of a penny rise per unit for shipments overrunning 80 per cent. This, for 85 per cent. mineral, would be equal to \$30 per-ton of 2,240 lbs.

The Coxheath Copper Mining-Company of Nova Scotia, composed of Boston capitalists, has had samples of ore assayed by two well known assayists who report value as follows, including a fair per cen-tage of silver-No. 1, \$104,58, No. 2, \$106.90 per ton. It is now stated that a regular output of ore from the Coxheath mine has been begun and that there will be no difficulty in raising from fifteen to twenty tons daily of 5 to 10 per cent. ore.

N.B .-- The Austin Mine on Echo Lake is capable of a daily production of from one hundred to ore hundred and fifty tons of ore, yield ing 10 to 12 per cent of copper. Surely this property should be a mine of wealth to the stockhoit ers if mining operations were carried on under proper management.

The contribution of Arizzia to metals from 1850 to the close of

but not patented, duties not being sale may be cancelle and be paid for in fight location. Sec. 12.

extent up to four hundr ., | hundred acres, may be acquired l addressing a letter to the Commi sioner of Crown Lands, specifyi, the lot or lots required, af Th trausmitting at the same time :чab

1. The full price of the locati ini at the rate of three dollars per neglar m if it is to be mined for phosphase lime (this price was fixed by 0. 4. w of 23rd of March, 1881); two d lars per acre, if to be mined ł asbestos or yold or silver (price lotl by O. C. of 7th Oct., 188 dollar per acre, if it is to b io. for inferior metalsur other mine nea or deposits or any substance or, sus preciable valuo.

2. A specimen of the minoral Son which the land is to be work A with an affidavit identifying it in having been taken from the la applied for.

Mines of gold or silver on pul or private lands may be worked in. parties taking out licenses for the b selves and employees, costing t sha dollars for each person for this in months, if the mining is to be ded on private lands, and four dollars on public lands.

The size and position of claims in public lands worked under su licenses are regulated by the Actim determined by the Mining Inspector according to circumstances.

The localities in the Provinc: Quebec in which minerals are chiefs found are as follows :---

GOLD.-Eastern Townships, pecially the Counties of Beauce Compton.

PHOSPHATE OF LIME.-Count of Ottawa and Argenteuil.

Aspestos.—Counties of Meming and Wolfe.

IRON. - Counties of Ott. Montcalm, St. Maurice, Chample Charlevoix and Saguenay.

COPPER. — Counties of Desir Megantic and Sherbrook.

GALENA. - Counties of Ott (Lake Temiscamingue), Gaspa Rimouski.

PLAUMBAGO,-County of Otteshi

MICA .- Counties of Berthier, tawa and Megantic.

During the past quarter century British Columbia 2014 no insignificant contributor to: gold market of the world. S 1858 up to the present time has produced no less than \$40,0 000 worth of the precious mich Besides this our Western From on the Pacific Coast is conspice

.. foreign .ought in, and undrous change. uneral resources of this y become developed, its agriatural capabilities will be fully brought out, manufactures and commerce will increase, and a numerous and thriving population will find

ready employment in the various branches of trade.

The chief minerals of economic importance enumerated in the Geological Survey Reports, as existing in Canada, may be thus classed :-1. Metals and their ores.

2. Minerals applicable to chemical manufactures.

3. Minerals applicable to construction.

4. Minerals for grinding and polishing.

5. Minerals applicable to refraction.

6. Minerals applicable to the fine arts.

7. Minerals applicable to miscellaneous uses.

Metals and their cres.-Under this head are the following : Iron, which exists as bog ore, hematite, magnetic and specular ore, and magnetic iron sand; lead; copper, sulphurets and native; nickel and cobalt, zinc, silver, gold, platinum.

Minerals applicable to chemical manufactures — Iron ores and chro-mic iron, sulphate of barytes, molybdenite, cobaltiferous and arsenical pyrites, bismuth, antimony, manganese dolonite, magnesite. phosphato of lime and calcareous tufa. Of the above, iron ores and sulphates of barytes, chromic iron, bismuth and others are used as pigments and in the manufacture of paints ; molybdenite and manganese, for blacking and decolourizing ; pyrites, for the manufacture of copperas, sulphur and sulphuric acid; dolomite a. magnesite, for medicinal purposes; phosphate of lime and culcareous tufa, for artificial manures.

Minerals applicable to construction - Under this head are hmostones and sandstones, for building purposes, the former is also used to prepare lime and hydraulic consent ; gneiss svenite and granite, for paving purposes : marbles, foand in great variety white, black, red. it grey, mottled, cho, for pulser, easer, eight handred acres. for her known natural, weilth a ers mantlepicees, and decorative pure it a roles of any tring be vise inthracito and bitumiuous (). "These, and scalphing; slater, for even "vorked and sold for iron and copper mines.

. May, .Jd3. no less .s have been reas visitors' book, and

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...ose may be seen the signas of scientists, of mer identified with mining pursuits, and of merchants and manufacturers from all parts of the globe. The average number of visitors is now about 50 daily, and during the past year there have been as many as 100, 150, and, on some special occasions, 300 names entered in the book in one day. It has been noticeable to those employed in the building, that a very large proportion of the people visiting the Museum manifest a a marked preference to inspect the mineralogical collection, and to this much importance is attached, as it goes far to prove that the mineral wealth of Canada is becoming known the world over.

## MINERALOGICAL NOTES.

The following is an extract from Mr. Small's pamphlet on the mineral resources of the Dominion of 'Canada :-

"The possession of metals is of vital importance to every country, and nature has been extremely prolific in giving Canada, in its varied geological functions, many of the ordinary metals and ores."

The attention of capitalists, both native and foreign, which has within the past few years been attracted thither, has had the effect of eliciting facts which 1-ove, beyond a doubt, that Canada is destined, contually, to rank among the finest mining districts in the world.

The impetus lately given to prosrecting. by enquiries constantly bing made, has caused the dis So I important deposits of geonon. mineralsof vast extent, and .\* se varied and useful a character -+h... wirtence of which, in Canada, vas provis ir unknown or, at west have out of it. and privation scientifile parsin temes fire-

Ac to fine arts.-...ones, agates, jaspers, 

. scellaneous minerals. - Conl, aignite, rock-salt, petroleum or rock-.ubt | oil, feldspar, bituminous shale.

# **GENERAL INFORMATION**

#### RESPECTING THE

## MINES & MINING LAWS

#### OF THE

# PROVINCE OF QUEBEC.

The chief provisions of the Quebec General Mining Act of 1880 are :

1. The declaration of ownership by the Orown and reserve of all mines not especially granted. Sec. 3.

2. For the sale of mining rights on unpatented lands acquired for agricultural purposes. Secs. 4 to 12.

3. For imposition of royalty under Order in Council, if deemed advisable. Secs. 13 and 52.

4. For granting licenses to mine for gold or silver on public lands, and on conceded portions of Seigniory Rigaud, Vaudreuil and and other private lands. Secs. 14, 50, et scg.

5. For the sale of lands as mining locations. Sec. 23, et seq.

6. For imposition of penalties for contravention of Act. Sec. 101, et seq.

Under this Act, parties holding letters patent for lands granted for agricultural purposes may acquire the right to work any mines of gold or silver thereon, without license, by paying the Commissioner of Crown Lands a sufficient sym to make up, with the amount paid before the issue of patent, the price of two dollars per acre. In the case of "free grants" the whole price of two dollars per acre must be paid. Censutaires in the seigniories in which the Crown holds mining rights may acquire these rights by paying one dollar and a half per acre for the whole of their land, or at least one hundred acres ; and the seignoir or proprietor of the unconceded portion of a seigniory may do the same on paying two dollars per acre; the extent over which such rights can be acquired being, however, limited veined dark and light greer, brown, 1 to four hundred acres, or in special

## ING REGULATIONS.

ARTMENT OF THE INTERIOR, DOMINION LANDS,

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OTTAWA, 19TH APRIL, 1893. ons to govern the disposal of Mineral Lands other than Coal Lands.

These regulations shall be able to all Dominion Lands jining mines of gold, silver, bar, lead, tin, copper, iron, or mineral deposit of economic 32.3 with the exception of coal.

Any person may explore it Dominion Lands not approed or reserved by Government other purposes, and search in, either by surface or subhean prospecting, for mineral ins, with a view to obtain these regulations a mining on for the same.

A location for mining, exceptrkter iron, shall not exceed twenty in area. la

surface boundaries shall be Wht lines not more than four in ul er. Its length shall not be ed than three times its breadth.  $\mathbf{ab}$ the boundaries beneath the surhall be the vertical planes in this its surface houndaries lie.

de inv person having discovered lar denal deposit, and desiring to fected in his claim to acquire ms ling location, under these regusta, in order that he may work Actime, shall, to entitle him to protection, proceed as follows : shall mark the location on

ue bound by placing at its four childs wooden posts, not less than iches square, driven not less eighteen inches into the d, and showing that length it. If the ground be too 15. сē to admit of so driving the )unt into it, he shall build about I them to support it and keep place, a cairn or mound of , at least three feet in diameter

e base, and eighten inches nt. On the most north-easterly uplie must mark with a cutting ment, or with red chalk, his Estin full, the date of such markthat the post is a Mining on, post No. 1. Proceeding  $\mathbf{P}^{a}$ the most south-easterly post all be marked ML. 2, and it his initials. Next, the most ier, westerly post shall be marked and with his initials; and the most north-westerly post his initials and the letters k. Furthermore, on one of to s of each post, which face ng h in the planting thereof be toward the post which next it in the order in which 40,0 to here named and numbered, 121 hall be marked in figures the rov r of yards distance to such ្មើ ıŞ

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each of the posts may be those estimated.

(In this manner any subsequent prospector, informed of these regulations, will, on meeting any one of the posts, be enabled to follow them all round, from one to another, and avoid encroachment either in search or in marking out another location in the vicinity for himself.)

5. Having so marked out on the ground the location he desires, the claimant shall next, within sixty days thereafter, fyle with the local agent in the Dominion Land Office for the district in which the location is situate, a declaration on oath according to form A in the schedule to these Regulations (which may be sworn to before the said agent, or may have been previously sworn to before a Justice of the Peace or Commissioner) setting forth the circumstances of his discovery, and describing, as nearly as may be, the locality and dimensions of the claim marked out by him as aforesaid; and shall, along with such declaration, deposit with the agent the sum of fifty dollars to the end and for the purpose set forth in the second clause hereafter.

6. The Agent shall give him a receipt, according to form B in the schedule to these Regulations, for such deposit. This receipt shall authorize the applicant, his legal representatives or assigns, to enter into possession of the location ap-plied for, and during the term of one year from its date and subject to the royalty prescribed in clause 19 of these Regulations, to take therefrom and dispose of any mineral deposit contained within its boundaries.

7. The deposit of fifty dollars shall be paid into the Receiver General by the Land Agent, along with and in like manner as other revenue from Dominion Lands in his district, and in the event of the mining applicant fulfilling all the conditions prescribed by these Regulations, the said deposit shall be deemed payment by him to the Government for the survey of his location.

8. At any time before the expiry of one year from the date of his making his application and deposit as aforesaid, it shall be open to .'e applicant to purchase the locacion on fyling with the Local Agent proof that he has expended not less than five hundred dollars in bonce fide mining operations on the lion, he shall, apart from any other same, such proof to consist of his legal consequences, have no claim, own sworn statement setting forth in detail the nature of such operations and the amount expended, and to be accompanied and confirmed by the affidavits of two disinterested dividual applicant. persons.

9. Should the applicant, or his legal representatives as aforesaid, fuil to prove within one year, the expenditure prescribed, or having proved such expenditure, fail within The billowing post. If means of that time to pay in full, and in cash, mining iron, and thus obtent, correst of the mino, at monthly er tements are not available, to the Local Agent, the price here- whother an good faith or frauda- such othes intervals as may be so-stances to be so marked on inafter fixed for such mining loca- lently, possession of a valuation (Continued on 6th Fog. )

tion, then any right on the part of the applicant or of his legal represontatives in the location, or claim on his or their part to acquire it, shall lapse; and the location shall thereupon revert to the Government and shall be held along with any immovable improvements thereon for disposal, under these Regulations, to any other person, or as the Minister of the Interior may direct, and the deposit paid by the applicant shall be forfeited to the Crown. 10. The price to be paid for a

mining location shall be at the rate of twenty-five dollars per acre. 11. If, on account of its remote-

ness or other cause, a mining location cannot, at the time of the payment of the deposit of fifty dollars by the applicant for the purpose, be surveyed by the Government for that sum, he shall be subject to the alternative of waiting until the employment of a surveyor by the Government on other work in the vicinity of the claim renders it possible to have the survey made at a cost not exceeding fifty dollars, or of sooner procuring at his own cost its survey by a duly commissioned surveyor of Dominion Lands, under instructions from the Surveyor General; in the latter case, on receipt of the plans and field notes of the survey, and approval thereof by the Surveyor General, the claimant shall be credited on account of royalty due, or to become due, with the fifty dollars deposited by him to defray cost of survey.

12. Where two or more persons lay claim to the same mining location, the right to acquire it shall be in him who can prove he was the first to discover the mineral deposits involved, and to take possession by demarcation, in the manner pre-scribed in these regulations, of the location covering it.

13. Priority of discovery alone shall not give the right to acquire ; but a person subsequently and independently discovering, who has complied with the other conditions prescribed in these regulations, shall take precedence of the first discoverer if the latter has failed to comply with the said other condi-Provided, however, that in tions. any case where it is proved that a claimant has in bad faith used the prior discovery of another and fraudulently affirms that he made independent discovery and demarcaand shall forfeit the deposit made with his application.

14. Not more than one mining location shall be granted to any in-

15. The Minister of the Interior may grant a location for the mining of iron not exceeding 160 acres in area. Provided that, should any

mineral deposit other than iron, his right in such deposit shall be restricted to the area hereinbefore prescribed for other minerals, and the rest of the location shall thereupon revert to the Governmen: for such disposition as the Minister of the Interior may direct.

16. When there are two or more applicants for any mining location, no one of whom is the original discoverer, nor his assignee, the Minister of the Interior, if he sees fit to dispose of the location, shall invite their competitive tender, or shall put it up to public tender or auction, as he may deem expedient.

17. An assignment of the right of an original discoverer to purchase a mining location shall be endorsed on the back of the receipt or certificate of assignment (Forms B and C in the schedule hereto), and the execution thereof shall be attested by two dssinterested witnesses, upon the deposit of the receipt or certificate with such assignment executed and attested berein provided, in the office of the Local Agent, accompanied by a registration fee of two dollars, the Local Agent shall give to the assignee a receipt in the form C in the schedule hereto, which certificate shall entitle the assignee to all the rights and privileges of the original discoverer in respect of the claim. assigned; and the said assignment, with the registration fee of two dollars, shall be forwarded to the Minister of the Interior by the Local Agent, at the same time and in like manner as his other returns respecting Dominion Lands, and shall be registered in the Department of the Interior ; and no assignment of the right of an original discoverer to purchase a mining location which is not unconditional and in all respects in accordance with the provisions of this clause, and accompanied by the registration fee herein provided for, shall be recognized by the Local Agent or registered in the Department of the Interior.

18. If application be made under the next preceding clause, by the assignce of an original discoverer, to purchase a mining location, and such claim is duly recognized and registered, as hereinbefore provided, such assignee shall, by complying with all the provisions of claus  $\cdot 8$ , become entitled to purchas the location for the price and on the terms prescribed in these regula tions, whether or not his assignor may have previously acquired a mining location under them.

19. The patent for a mining location shall reserve to the Crown, for even, a royalty of five per cent. on the sales of the products of all mines therein; and also on the sales of any timber or wood that may be on the location.

20. Returns shall be made by person making an application pur- the grantee sworn to by him, or by porting to be for the purpose of his agent or other ...mployee in

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### MINERALS IN CANADA.

An article has appeared in the Liverpool Journal of Commerce commerting wealth of on the mineral as fol Canada lows :- "Much interest has of late been created amongst capitalists in consequence of the extraordinary development of mining in Canada; and, in connection therewith, it may be well to observe that in the neighbourhood of Ottawa, the Capital of the Dominion, the amount of enterprise displayed, especially in the Laurentian range of mountains, is something enormous. For the past two or three years parties of workmen have been engaged in removing phosphates from what are known as "surface pockets," the prevailing opinion amongst geologists having been that this valuable mineral was only to be found under certain conditions. The experience of those engaged in the operations referred to throws fresh light on the entire subject, and, in contra-distinction to the learned dicta of men of science, it is found that the mineral is obvainable under conditions which present no appearance whatever of animal organization. Further, it is obtainable in such quantities, and of so high a quality-the latter giving 35 per cent. of phosphate of limens to yield a large revenue. It has been ascertained, likewise, that these "pockets," when blasted, ex-pose extensive and unexpected de-The posits of phosphate beneath. consequence of these disclosures has been much excitement, not only in Ottawa, but throughout the Dominion, and phosphate lands have experienced a rise in value. It is noteworthy, too, that not only American, but English, French and Belgian capitalists are investing largely in these lands, a strong testimony to the value in which they are held beyond Canada itself.

In further illustration of the mineral wealth of the country, we may mention that on the Island of Michipacotin there has been disclosed an enormous deposit of copper, which far exceeds the deposits of the Calumet and Aecla Mining Company, so well known in the United States. Specimens of the newly-discovered ore have been forwarded to the laboratory of the School of Mines in London, and the exalysis has proved, in connection with the known extent of the deposit, that a valuable industry of unheard of dimensions is about to be opened up. A large capitalist from London has sailed in one of the Allan steamships, with a view of testing the accuracy of the reports that have reached this country as to mining development in Canada -a practical method of going to work, which should tend to foster legitimate trade and nip any bogus experiments in the bud. Assuming these reports to be, in the main, the minery industry, to have a finderneed men, should be attached the siver product of Mexico, shows mine now operated by him by sh a bright fained and, with the in- ranch importance, time, however, an annual yield of \$22,000,000. to develop into a very viel

terest manifested in all Canadian matters by the Marquis of Lorne, should have the effect of promoting still further commercial intercourse between it Country." and the Mother

It cannot fail to please the people of Canada, more particularly those interested in mining enterprises, to read such flattering articles in the foreign press on the vast natural wealth this country possesses.

#### Manitoba Mines.

It must be encouraging to those directly interested in the welfare of Manitoba to notice how rapidly the mineral wealth of that province is being developed. Not a day passes that we do not see leading articles in the Canadian and American press commenting on the gold mines of Manitoba, and all testifying in unqualified terms to the richness of the mines at present in operation. Prominently among these is the well-known Keewatin Mine, situated near the Lake of the Woods. about 500 feet from its shore. The shaft has been opened on the crest of a ridge, about 80 feet above the lake level, and is being sunk in a true fissure vein, with most encouraging results, the quartz increasing in richness as mining progresses, until the company has now the satisfaction of claiming, and justly so, that the ore taken from its mine gives a larger percentage of the precious metal than any other yet discovered in the district ; and, compared with the principal gold mines of the United States, its yield is far in excess, as the following figures will show -

Ma	nitoba	Mine	
Keewatin Mine, p Lake Winnipeg Hay Island North American	er ton	of 2,000 lbs	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
North American			or 20 ·

#### United States Mines.

From this it will be seen that the flattering reports published regarding the value of the "Keewatin," have not been without substantial foundation, and taking into account the many important advantages this mine possesses, such as being easy of access, the cheapness of fuel and the richness of its ore, it may safely be predicted that the company has in store a brilliant and a prosperous future.

Some gentlemen from the United States who have a large amount of capital invested in mines in New Mexico and Nevado, accompanied by mining experts from New York, recently visited the property of the Keewatin Mining Company, and were unanimous in the opinion that the lode was much richer and promised a larger yield than anything they had seen in Colorado or Nevada. To the opinions of these practi-

will prove the correctness or incorrectness of their reports. If mining operations are prosecuted with the same energy in the future, and with the same encouraging results as have been shown in the past, this company will realize such prosperity as will exceed the most sanguine anticipations of those who are interested in its welfare. If, when the output of ore has been crushed, the result bears out the tests already made on a small scale, and there is little doubt but it will, then, it is safe to say, success will have been assured for the Keewatin Mining Company and a lively " boom " will thus be created in Manitoba mining stocks. There will be no further necessity for applying to men of capital for assistance-on the contrary, capitalists will anxiously seek investment for their money in what promises to return such handsome profits.

#### A Gold Brick.

A despatch recently received from Winnipeg announces the arrival in that city of a gold brick weighing 3 lbs. It was brought from the Winnipeg Consolidated Mine, and has created intense excitement among those interested in Manitoba gold mines. Another brick is looked for, and should have reached Winnipeg ere this, from the Argyle Mine. The mills at both these mines are said to be doing excellent work, and the value of the properties is established beyond a peradventure.

### Keewatin Mine.

A telegram was received from New York a short time since by a gentleman in Winnipeg, asking him if the Keewatin Mining Company would be disposed to sell 5,000 shares of its stock at \$8 per share. If this offer be accepted, it will be the largest sale of Keewatin stock yet effected; its par value is \$10 per share.

# Incorporated Mining Companies in Maniteba.

The following is a list of the Gold Mining Companies owning p.operties on the Lake of the Woods, the capital stock of each, and the par value of their shares :

	Capital Stock.	Shares par value
Argyle Mining Co., limited.	\$1,000,000	\$100
Winnipeg Consolidated Gold Mining Co., limited	1.020.000	50
Keewatin Mining Co., limited.		50 10
Lake of the Woods Gold Min-		
ing Co	2,000,000	10
George Heenan Mining Co	500,000	2
Lake Winnipeg Mining Co	2,000,000	10
Mining Investment Co Canada Gold Mining Co.,	300,000	
limited.	1,000,000	20
British American Gold Min-		
ing Co	500,000	10
l	i	<u> </u>

The greater number of the above named companies are already engaged in active operations, and mining is being vigorously pushed ahead.

### Manitoba Lands

pro

We beg to direct the atter fro our readers to the list of Me Birtle Lands in Manitoba, in The selection of these lans the made by an old resident kir country, who reports rich bla the with gravel sub-soil, and pl Te water. The Portage and a v bourne Railway—now in cc ope construction—will run throi shi heart of the Birtle distric ina more beautiful country exists tio Brit h possessions than the sal and Bird Tail Section of Ma me and we venture to say that, fav the next five years, lands s cei those offered for sale will be d exit to obtain at \$50 to \$100 per s vel

## **ASBESTOS.**

This valuable mineral is found more or less in variou ma of Canada. It occurs in the ph lying north of Kingston a lying north of Kingston a in many sections adjacent to have tawa Valley, but the depose and covered in these localities be ins yet been worked, and this is ter due to the want, on the owners, of the necessary me carry on mining operations, have as to the fact that the exist .... in carry on mining operations, has as to the fact that the exist mi the mineral in this section of Ri is comparatively unknown to lists. Yet the opinion pro-amongst geologists that the of asbestos in the Ottawa V suc destined to become an indu as great importance. In the carr Townships it has already be had most important industry, a ma quantity of mineral shippe the mines in the County of M has been annually increasin it is rapidly becoming one most extensive asbestos pro-mi sections of North America.

Township of Shefford, mining tions are being actively can the by the Boston Asbestos Is wa Company, by Messrs. King da and by Messrs. Johnston and the Four distinct properties are Four distinct properties are the worked by these gentlemes are employ in all 160 men, and be daily output is estimated at a bu Mr. Jeffery has for some year the engaged in mining in the To of Danville, and has succeed raising a large amount of man all of which has been ships mini-Mr. W. H. Johns, of News information of the largest Fire-proof Education one of the largest Fire-proof E Paint and Packing Manufe in the United States. Mr. V. M in the United States. Mr. Ve M mine, in Wolfston, is said to y is ton daily, and by the employr th additional force the output m th considerably increased. This R has, however, been but r P opened and it is only reasons ve supposed that it will become pa productive as development N gresses. In the Towns! Cl Broughton Dr. J. Beed, is Cl gresses. In the roughton, Dr. J. Reed is Ci property. The asbestos produced modern machinery has been erected from these mines in the County of Megantic, is similar to that found in the Ottawa Valley, and is pronounced by European manufacturers the finest and strongest fibre of the kind known. On Lot No. 11, in the 8th Range of the Township of Templeton, in the County of Ottawa, a valuable asbestos mine has been opened and a quantity of mineral shipped, but, owing to the owner's inability to continue mining operations, the property is offered for sale, as will be seen by an advertisement in another column. Most favourable reports have been received of this property, and there exists little doubt that it will develop into one of great value.

### PERSONAL.

Mr. J. G. Miller, who has for many years been identified with phosphate mining in Canada, was in Ottawa recently. Mr. Miller has devoted a great deal of time and study to this industry, and was instrumental in attracting the at-tention of the outside world to the value of our Canadian apatite deposits. For the past two years he has been actively engaged in guano mining on an island near Porto Rico, and was in Ottawa en route to Liverpool, where he hoped to procure direct tonnage from the island for his output by effecting such arrangements with ship-owners as would allow vessels carrying cargo to American ports to return Inden with guano for the English market. As the uncertainty of transportation has thus far retarded his operations, and has been a seri-ous drawback, it is to be hoped he may accomplish the object of his mission.

Mr. W. McIntosh, Manager of the High Rock Phosphate Mine, was in the city within the past few days, and expressed himself more than satisfied with the way in which the work under his supervision is Mr. McIntosh has progressing. been engaged for some years in this business, and has forwarded many thousand tons of mineral across the Atlentic; this season he will ship more than in any previous year, and yet he speaks of phosphate mining in Canada as being in its infancy.

Captain J. E. Smith, of the "Union Phosphate Land and Mining Co.," reports that work is progressing most favourably at the mine. The property owned by this company adjoins the "High Rock Mine," in the Township of Portland, West, and is said to be very rich in mineral. The company, composed of capitalists in New York, Philadelphia, Detroit, Chicago, Cincinnati, and Kausas City, has a capital stock of in by granite. The mica found in and water communication, and to \$1.000,000, divided into 10,000 these formations is of a very super the difficulty of never herotofore shares, fully pail by and marshes view and, in clearness and uncountered; this drawback has by those engaged in humbering and obles. A large force of parameters size of the shoets, it is equal to that Lorrever, been reverse the state of the shoets, it is equal to that Lorrever, been reverse to the state of the shoets, it is equal to that Lorrever, been reverse to the state of the shoets, it is equal to that Lorrever, been reverse to the state of the shoets, it is equal to that Lorrever, been reverse to the state of the shoets, it is equal to that Lorrever, been reverse to the state of the shoets, it is equal to that Lorrever, been reverse to the state of the shoets.

to facilitate the rapid prosecution of Captain Smith, the comwork. pany's superintendent, when last in Ottawa, is reported to have said that, since the company began operations, the immediate vicinity of the mine has undergone a great What was but a few change. months ago a wilderness, is now the scene of life and activity; and, where no habitation was visible, a village of no mean proportions has suddenly appeared. The superin-tendent will no doubt ship a large quantity of high-grade phosphate from the mine this year.

Mr. Weston, of the firm of Van Rensselaer, Falding & Co., of New York, was in Ottawa a few days ago. Th' firm has entered into contract with the Dominion Phosphate Company to raise a large amount of first quality phosphate from a property purchased last year by the said company from Mr. W. A. Allan, of this city. The mine is one of great value, and the min-eral already mined has proved to be of the richest grade. Mr. Weston speaks very highly of the property, and is more than sanguine that the output for the year will be in excess of the quantity contracted for by his firm. Steam drills and derricks are kept busy penetrating into the bowels of the mountain towards the main body of ore. A cut is being made across the hill, 40 feet deep by 10 feet in width, so as to facili-tate the working of a large force, and, in making this opening, many fine veins, leading to the main deposit, have been crossed, and a large amount taken therefrom. Mr. Weston reports a great quantity of phosphate in sight, and says that the company contemplates constructing a tramway from the mine to the Rivière du Lièvre to render practicable the shipping of the output during the summer season. Phosphate mining in the County of Ottawa is certainly making rapid strides.

# MICA.

In Canada, up to the present time, little or no attention has been directed to this useful and valuable article of commerce. Throughout the Laurentian range large quantities of mica are to be seen on the surface of the rocks, and, wherever mining or quarrying has been carried on, abundance of it is to be met with, but in most instances it is unmarketable. In the majority of cases it is associated with a limestone formation, and this is pro-nouced to be of no commercial value. In some localities, however, in the Ottawa Valley, it occurs in regular veins, lying between well defined walls of feldspar and quartz, and in others the veins are hemmed in by granite. The mica found in

New Hampshire. From some such veins, not far distant from the City of Ottawa, a quantity has been extracted and forwarded to different firms in the United States, who have attested to its value and pronounced it equally clear and perfect as any they had before used. It is to be hoped that, at an early day, Canadian mica will be sought after by stove manufacturers and others, and that the same activity will be shown in the mining of this mineral as is evinced by those engaged in working the phosphate and other de posits.

## IRON.

There is no metal of so much importance in the material progress and prosperity of any country as iron, and it is to be found in great abundance and variety in all the agement approvinces of the Dominion of Cana- industry." da. The iron deposits of Eastern Ontario and the western portion of the Province of Quebec are especially noteworthy, as they are destined, at no distant day, to attract the attention of capitalists from all parts of the model. There are to be found, in every direction through out this part of Canada, strong indications of the presence of the metal, and many veins of magnetic and hematite ore have been opened to a small extent by prospectors and owners of properties for the pur-pose, merely, of establishing the fact of its existence in paying quantities, and of procuring specimens for analysis. In nearly all cases the result of assays has proved the ore to be of unquestionable richness, without deleterious properties common to that in many other localities; to be comparatively free from impurities, and the presence of titanium is almost imperceptible. In the Township of Hull, in the County of Ottawa, extensive deposits of hematite ore have been exposed; and one mine of magnetic ore, yielding as high as 66 per cent. of metallic iron, has been actively worked for some years, and the ore shipped at small cost to Cleveland, Ohio. In that section of Eastern Ontario lying north of Kingston and Belleville, between Lake Ontario and the waters of the Upper Ottawa, an abundance of iron ore is to be found, occurring chiefly in the Townships of Marmora, Hastings, Tudor, Madoc, Bedford and Bagot ; in the last named township the ore is said to yield a high percentage of metal, and to be of marked purity. In some of the other townships the mines have been more or less operated, and the output shipped to the United States to be smelted. In Bagot, however, the deposits have not yet been worked for shipping, owing to their having been isolated from railway and water communication, and to

Pembroke Railway, which now traverses that section of the country, affording easy access to the mines, and means of transporting the ore-that is to say, if property owners continue to ship the output in its raw state to American smelting works; but the Canadian Government is alive to the importance of encouraging home manufacture of iron, and, as an inducement to miners in the country to do so, Sir Leonard Tilley, in his Budget speech, delivered in the House of Commons on the 30th of March, said : " the Government will submit a resolution to the Committee, that on and after the 1st July next, and for 3 years, \$1.50 per ton will be paid on all pig-iron produced in Canada during those 3 years, and \$1.00 per ton during the next 3 years, as a bounty for the encouragement and development of this

The bounty mentioned for the 3 years from the 1st July (\$1.50 per ton) should be ample to defray the cost of mining, and to go towards paying for fuel as well. This should be sufficient to induce capitalists in the Dominion to inaugurate this new enterprise, and, if due advantage be taken of the Government's liberal offer, it will have the effect of bringing Canada prominently among the extensive iron-producing countries of the world.

## PROJECTED RAILWAYS.

The inhabitants of those sections of the Province of Quebec adjacent to the Rivers Gatineau and Du Lièvre are much exercised at the prospect of having, within a short time, railway communication from the interior to the line of the Canadian Pacific and the Ottawa River. The surveys have already been made for the Ottawa and Gatineau Valley Railway, and for the Ottawa Colonization Railway, and it is expected that the work of construction on both roads will be begun in the near future and strenuously pushed to completion. The line of the first mentioned road has been located from Hull to a point 80 miles north, and throughout the entire distance no serious engineering difficulties have been encountered; for many miles it traverses a cleared and well cultivated country, and then enters the timber and mineral district of the Gatineau Valley. The Ottawa Colonization Railway, starting from Buckingham, will pass through open country for some distance, and, running west, will penetrate into the very heart of the phosphate region, thus affording rapid means for shipping ore at all seasons of the year. A very fair location for this line has been adopted, and the breaking of ground is looked for with no licele inforest

quired by the Minister of the Interior, of all products of his mining location, and of the price or amount he received for the same.

21. The Minister of the Interior may direct mining locations to be laid out wherever, from report of the Director of the Geological Survey or from other information, he has reason to believe there are mineral deposits of economic value, and may sell the same to applicants therefor, who, in his opinion, are able and intend in good faith to work the same; or he may, from time to time, cause the said loca-tions to be sold by public auction or tender. Such sales shall be for cash, and at prices in no case lower than those prescribed for locations sold to original discoverers, and shall otherwise be subject to all the provisions of these regulations.

LINDSAY RUSSELL.

Deputy of the Minister of the Interior.

## SCHEDULE TO MINING REGULA-TIONS.

FORM A .--- DISCOVERER'S APPLICATION AND AFFIDAVIT.

(A.B.) hereby apply, under the Dominion Lands Regulations, for a Mining Location in (here give general description of

locality)

for the purpose or mining for

(here name the metal or mineral) and 1 lereby solemnly swear :-

1. That I have discovered therein a deposit of (here name the metal or mineral)

2. That I am to the best of my knowledge and belief the first discoverer of the said deposit.

3. That I am unaware that the land is other than vacant Dominion Lands.

4. That I did, on the day of mark out on the ground in accordance in every particular with the provisions of clause four of said Mining Regulations, the location for which I make this application ; and that in so doing I did not encroach on any mining location previously laid out by any other person.

5. That the said mining location contains, as nearly as I could measure or estimate, an area of acres, and that the description (and sketch, if any,) of this date hereto attached, signed by me, set forth in detail to the best of my knowledge and ability its position, form and dimensions.

6. That I make this application in good faith to acquire the land for the sole purpose of mining to be prosecuted by myself, or by myself and accoclutes, or by my assigns.

Sign. bifure the { (Signe the

FORM B .- RECEIPT FOR DEPOSIT BY AP-PLICANT FOR MINING LOCATION. No.....

Department of the Interior, Dominion Lands Office, Agency 18 Received from (A.B.,) of Fifty Dollars, being payment by him of the deposit required by Clause five of the Dominion Lands

Mining Regulations accompanying his application No. , dated for a Mining Location in 18 (insert general description of locality)

This rece<sub>ipt</sub> authorizes the said (A.B.) his legal representa-(A.B.) his legal representa-tives or assigns, to enter into possession of the said Mining Location, and during the term of one year from the date of this receipt, and subject to the royalty prescribed in Clause nineteen of Mining Regulations, to take therefrom and dispose of any mineral deposit contained within its boundaries, and on due compliance at any time within that period with the several requirements in that behalf of the said Mining Regulations, entitles him or them to purchase the said location which, provisionally, and until survey thereof, may be known and described as follows : (Insert description in detail).

If the said A.B., or his legal representatives or assigns, fail to comply, as aforesaid, with the conditions that would entitle them to purchase within one year from this date, or, having so complied, do not within that time make payment in full for the land, then the right to purchase shall lapse, and the Mining Location shall revert to the Government, to be otherwise disposed of as may be directed by the Minister of the Interior.

### Agent of Dominion Lands.

FORM C -- CERTIFICATE OF THE ASSIGNMENT OF A MINING LOCATION.

No..... Department of the Interior, Dominion Lands Office, Agency 18 This is to certify that (B. C.) of

has fyled an assignment in due form, dated 18 , and accompanied by

a registration fee of two dollars, of the right of (A. B.) of to purchase the mining location in

(here insert general description of locality) applied for by the said A B. on the 18 This certificate entitles the said

B.C., or his legal representatives or assigns, to all the rights and privileges of the original discoverer, A.B., in respect of the claim assigned and hereinafter described ; that is to say, to enter into possession of the said royalty prescribed in Clauseninetcen of the Mining Regulations, to take therefrom and dispose of any mineral deposit contained within its boundaries, and on due compliance at any time within that period with the several requirements in that behalf of the said Mining Regulations. entitles him or them to purchase the said Location, which provisionally, (Insert description in detail).

If the said B.C., or his legal representatives or assigns, fail to comply as aforesaid with the conditions that would entitle them to purchase within one year of the date of the receipt granted to A.B., and now deposited with me, or, having so complied, do not within that time make payment in full for the land, then the right to purchase shall lapse, and the Mining Location shall revert to the Government to be otherwise disposed of as may be directed by the Minister of the Interior.

#### Agent of Dominion Lands.

### COAL.

That coal does not exist in Ontario or Quebec, owing to the geological formation of these Provinces, is an established fact; but being favourably situated in there proximity at all points to other carboniferous regions, and the facility of conveyance afforded by the vast lakes, rivers, canals and railways of the respective provinces, it is easily procurable, and the deficiency is well made up by the vast areas of coal district in the Maritime Provinces and on the Pacific Coast. It is a most important matter for Great Britain to hold on either side of her possessions in this continent, countries possessing this valuable mineral on the coast, the eastern and western portals of the Dominion.

NOVA SCOTIA .-- It is probable that Nova Scotia, in proportion to its extent, stands unrivalled in the productive capabilities of its coal fields, whilst nature has afforded every facility for working them to advantage. The coal belongs entirely to the bituminous division, no anthracite having been met with as yet, although there are numerous tracts of carboniferous formation in various parts of the Province; the largest and most valuable are situated near and along its northern shores, and over a considerable portion of the northern and eastern shores of Cape Breton. The chief coal producing sections of the Province are known as The Sydney, The Inverness, The Richmond, The Antigonish, The Picton, and The Cumberland Coal Fields. The most

equal to Welsh Steam Coal. The enormous amount of available cod! it contains is stated in the Geological Survey Reports to be over 212, 000,000 tons. The cost of the coal mined and put on board the cars varies at the different collieries from 60 cents to \$1.25 per ton.

NEW BRUNSWICK .- The only locality in this Province where coal mining operations arc at present conducted is in and about the Newcastle River and the shores of the Grand Lake, in Queen's County. The area and thickness of the beds indicate a total productive capacity of 155,000,000 tons, and it may fairly be presumed that with economical management, and a proper system of working, a large portion of this enormous quantity might be profitably extracted. The coal is a true bituminous, is employed both for household and blacksmiths' use, and is said to be of good quality. In Albert County abl a remarkable mineral known as out Albertite was discovered about 0 the year 1850, and since then nearly 200,000 tons of this mineral has been removed and exported to the United States for the manufacture 'GP of oil and for the admixture with other coals in the preparation of illuminating gas, for either of which purposes it is admirably adapted, an being capable of yielding 100 gal sinc lons of crude oil, or 14,500 cubickan feet of gas, of superior illuminating power, per ton.

BRITISH COLUMBIA. - The presin sence of good coal in Vancouver ric Island and the absence of it in other then portions of the Pacific Coast, are greatly in favour of this Province. and The coal bearing localities of British Columbia are Queen Charlotte Island, and Vancouver Island, and the Main ant land. The production is increasing in with the demand, and, in view of a growing market, works are being freely extended. The output sells, th at the mines for \$5 to \$6, and in 1 San Francisco for \$10 per ton. The of existence of a fine quality of coal on the seaboard cannot fail to be of the very greatest importance when the Canadian Pacific Railway converts British Columbia into one of the world's highways. By that time lin all the trans-continental railways will connect on the Pacific Coast with lines of coasting and ocean steamers, which will get steam coal from the only North Pacific district that can supply it, namely Vancouver Island. Dr. Brown, of Edinburgh, who visited the province some years ago, says, "that in her coal fields, British Columbia has within herself the elements of lasting prosperity," and this canno be denied.

NORTH-WEST TERRITORY .---- it ; now an established fact that cos to enter into possession of the said mining location, and during the term of one year from the date of the receipt No...., granted to the tool particulary saited for ges mak-tool wast territory, and it has been dis covered in large quantity in the tool particulary saited for ges mak-tool location large quantity in the tool particulary saited for ges mak-tool location large quantity in the covered in large quantity in the tool particulary saited for ges mak-tool location large quantity in the covered in large quantity i exists in various districts of this covered in large quantity in the an following localities, mucht, an the th east coast of Hudson Bay and someon

r , on Abitibi and Missinaibi rs; on the west bank of Coal k, and at the mouth of Poplar r; at and near Rocky Moun-House, and between that site Edmonton ; in the region west Edmonton lying between the abasca and Red Deer Rivers, mŀ in the Souris district. The hal scarcity and low quality of al timber over hundleds of miles at untry bordering the two Sas-w bewan Rivers render it a te of the very greatest impory. I, in connection with the future ds ment of the North-West, and ty pening it up either by land or steam transport, to ascertain and at what depth coal can o-procured available for domestic r-[bses, railroads and steamboats. ty termine this, borings must be here, as surface examinations will  $m^{-1}$  by the question.

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nd crecent discovery of coal in be jouris district will prove of inbe souris district will prove of in-typable value to Manitoba and as buntry surrounding, and will not c of the most valuable adjuncts e prosperity and progress of orth-West.

GRATUITOUS ADVICE.

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article which appeared not

## al lince in the Chicago Journal bic manerce, addressed to grumis hardly understood why a few is hardly understood why a lew pre-lin this country have so suddenly very ling in value every ten years, and here is happen to be in possession of are in arteries of trade and manufac-ice, and so the land of every town ish a value, so does the railroad and and oh right of way double each ten and will continue to do so until in fatry is fully occupied. Every foot ing in the North-West, every railroad f c cg oph and manufactory will be ing louble in 1890 what it was in only get hold of as much as posells, the material of this country and If the grumblers would do this The of finding fault with owners of on because their property doubles the ubles again in value! Opening the ubles is not althe sure road to wealth, but the mines erts chance to be bonanzas and the the hich chance to be the great highill give their holders fortune. imé

"n't stop to grumble !" Dast

## TRUE COURAGE.

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### EY KATE WINDSOR.

gh frame cabin on the bank of a i, of h, of the mining regions. A dozen men proper and the unplaned benches abit the interior, and two girls stand abia the interior, and two girls stand s of attitude at the doorway. Out-no-banksmen are dexterovsly loadcarriage with timber for use in

t ine. Until they have completed compours the operatives cannot go to dis je distinguishing marks of their the and many of them beer on their e distinguishing marks of their ent story of perils in the mine. the faint blue lines which tell hak

The delay is tedious to men accustomed, as they are, to severe physical toil, and a veteran with grizzled locks and beard, who is ovidently recognized by the others as a leader, suggests that one of the girls be sent for "drink."

The suggestion is approved by all with one exception, and this man, John Walters, remains silent.

The girl has not far to go, and she quickly returns with a can of the beverage. Richard Wilson, one of those who had most heartily assented to the proposition, takes the can from the girl and proceeds to dispense the contents He approaches Walters in turn and groans of anguish. proffers the brimming glass, but the invitation is declined with thanks.

"So you won't drink, mate?"

"No, Dick ; I can't do it."

"You are too partickler, mate; per-haps it's the company you objects to?" "You know me better, Dick; don't

press me.' "You had better drink, mate," says

Dick, with an evil gleam in his eyes. "I've already told you that I don't want it," is the steady answer.

"Well, take it that way,"-and the beer is violently dashed in Walters'

face. The man who is so grossly insulted turns a shade paler as he clenches his teeth hard to restrain the rising passion, but he says nothing, and a howl of derision is raised by his fellow workmen.

"Why, you cur," shouts one; "defend yourself; a worm will turn if trodden on.'

"Jack Hardy," responds Walters; "you have worked in the next stall to me for over a year. We have seen some trouble in our heading—can you say that I lowe ever shown the white feather ?"

"You're doing it now," is the quick and contemptuous retort.

"I object to fight on principle, and you know it," calmly replies Walters; and the appearance of the "boss" is the signal for closing the discussion.

The foreman reports the workings clear of gas; the lamps are locked, and the miners are quickly engaged in filling their tubs with the "black diamonds."

In the breast of John Walters various emotions are contending for the mastery. He is a sensitive man and the insult is keenly felt. The struggle is a sharp one, but the cloud lifting from his brow shows that he has conquered. He remembers the time when he drank harder, and for a longer period at a stretch, than any of his mates. He re-members the wretched tenement, almost devoid of furniture, which in those days he called his home; and he thinks of wife and children often hungry and always thinly clad.

All this is changed now. Not one of his fellows bas a happier family or a better appointed home than himself, and all has been accomplished by total abstinence. By God's grace, he has told him-self, he would never fall again-and, although sorely tempted, he never has.

. " Hark !"

It is one of the banksmen who is speaking to his companion. The sound which causes the exclamation is heard again, and both men throw themselves flat on the ground and endeavor to penetrate the inky blackness of the shaft. There is a strange and unaccountable stillness below, which is soon broken, however, by a dull rumbling sound reechoing through the chambers and roudways of the mine. and the men hold their breath in the intensity of their excorresponse the operatives cannot go to citement. The carriage is at the top, this pective stalls. All of them ex- and one of them arises and hastens to give the signal to " lower away."

Clang, clang, clang ! The massive hammer has fallen three

"They want to come up, there is p < g Times.

trouble below," says the agent, who has just reached the bank from the office. "And death I" answers the leading banksman, solemnly.

The carriage is lowered with lightning-like rapidity, is raised and its living freight discharged. Again and again the operation is repeated, and a crowd of women and children are by by this time congregated at the pit's mouth. They peer anxiously into the faces of those brought to the surface, hoping for the best but fearing the worst. Disfigured features are seen in every load, and suffering is gauged by

"How many were in the pit?" asked the agent in a voice which tells of strong emotion.

"One hundred and twenty," is the prompt answer.

"Then they are not all up?" "No, sir; the mon in No. 4 heading are still below."

" I fear they are doomed, but an effort must be made to save them-who goes with me?" and the agent jumps into the carriage with a nervous bound.

The example is quickly followed by several others, but there is no enthusiasm -only a grim determination to do their whole duty, though it takes them into the very jaws of death.

A narrow pathway winding down the mountain's side. The herbage is scanty, and yawning fissures and whitened stones bespeak the frequent torrent.  $\Lambda$ solitary goat browses on the slope, and naught beside, save the tall black derrick which rears its head in the distance, tells of life. The silence is broken by the tolling of a bell in the tower of the village church, and soon the pathway is treaded by a procession of stalwart men and weeping women. On the shoulders of the men is borne all that is mortal of John Walters, the "cur," who has laid down his life on the altar of love.

The man who has treated him with insult and contumely was in imminent danger, for the explosion had come from his stall, and Walters resolved, if possible, to save him. Half choked with the after-damp, he toiled onward through the subterranean passages until he came to Wilson's working place. Large poi-tions of the roof had tallen, and it was necessary to proceed on his hands and knees. He did not hesitate, but, with a heart-prayer for success, he boldly entered.

Groping around with his hands outspread, they presently came in contact with the apparent lifeless body, and in bended posture he retreated-slowly, laboriously, and painfully.

Once on the roadway, he sought for a sign of life and found it. The pulsation of Wilson's heart was perceptible, and it nerved the gallant fellow to increased effort.

But at last he sank to the ground, he could proceed no further; his brain was dizzy, his sufferings more acute ; then all was lost in unconscious :ss-the insensibility of death ! The hero, for hero he was, had paid the last debt of nature, and had gone to his reward.

Later, when the exploring party en-tered the mine, the two were found, the head of the dead pillowed on the breast of the living-the man who had been saved at the eleventh hour.

Silently the procession moves on its way save when a halt is made for a change of bearers, or when the choir who lead raise their voices in the pathetic strain of a funeral dirge, until the grave is reached and the last sad rites completed.

"He was a good man," says one.

"Brave as the bravest," is the hearty response, and the aged minister lays a kindly hand on the shoulder of Richard Wilson, and whispers gently : "Greater love hath no man than this, that a man lay down his life for his friend - Winni- Dept. of failways and Canals,

A prominent mining report of Denver, Colorado, assayed an average specimen of quartz, taken from one of the Manitoba mines, and found that it carried \$203.58 of gold to the ton. He speaks of the ore as being of astonishing richness.



#### IMPORTANT SALE

Of choice and well situated Farm Lands in the Province of Manitoba and North-West Torritorios of Canada.

At Winnipeg, commencing on Tues-day, the 15th May next, there will be offered at public auction, a portion of the even numbered sections lying along and adjoining the Canadian Pacific Raifway in Manitoba and in the Territorial District of Assimboia, and of the evennumbered sections lying between the belt of the main line of the Canadian Pacific Railway and the International Boundary and between the Red River and the Coteau or Dirt Hills.

#### COAL LANDS.

Some of the Coal Lands on the Souris River will also be offered. Further particulars of the lands, the

upset prices, and the terms and conditions of sale may be learned at the Dominion Lands Office, Winnipeg.

By order,

LINDSAY RUSSELL, Deputy of the Minister of the Interior.

Department of the Interior, Ottawa, 20th April, 1883.



#### LACHINE CANAL.

#### NOTICE TO CONTRACTORS.

Sealed tenders, addressed to the undersigned, and endorsed "Tender for the Formation of Basins near St. Gabriel Locks," will be received at this office until the arrival of the eastern and western mails, on Wednesday, the 6th day of June next, for the formation of TWO SLIPS or BASINS, on the north side of the Lachine Canal, at Montreal.

A plan and specification of the work to be done can be seen at this office, and at the Lachine Canal Office, Montreal, on and after Tuesday, the 22nd day of May next, at either of which places printed forms of tender can be obtained.

Contractors are requested to bear in mind that tenders will not be con-idered unless made strictly in accordance with the printed forms.

An accepted bank cheque for the sum \$2,000 must accompany each tender, which sum shall be forfeited, if the party tendering declines entering into con-tract for the works at the rates and on the terms staled in the offer submitted. The cheque thus sent in will be returned to the respective parties whose tenders are not accepted.

This Department does not, however, bind itself to accept the lowest or any tender.

By order, A P. BRADLEY, Secretary

Ottawa, 21st April, 1883.

