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New Series Vol. 10 No. 19

April 8th, 1908

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minerals in proportion

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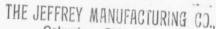


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11 TRITIME MINING RECO

Vol. 10, No. 19. Stellarton, N. S., April 8th. 1908. **New Series**

THE NOVA SCOTIA COLLIERY WORKERS' PROVIDENT SOCIETY AND OLD AGE PENSION BOARD.

The following is a copy of the proposed Act transforming the Relief Societies into the Nova Scotia Colliery Workers' Provident Society :

Be it enacted by the Governor, Council, and Assembly, as follows

1. Every person employed in or about the coal mines of Nova Scotia, and in connection with the works incidental thereto, and every person who may hereafter be so employed shall by reason of such employment be and become a member of "The Nova Scotia Colliery Workers' Provident Society," hereinafter called "The Society," which is hereby constituted shall forthwith convene in the City of Halifax a Coun-

2. When or so soon as thirty persons are emshall be formed to be known as "The Nova Scotia Colliery Workers' Provident Society " (name of mine)

3. There shall be a Board to be known as "The 5. There shall be a Load to be known as the bound shall act as constant dollars in the Nova Scotia Colliery Workers' Provident Society and in excess of the sum of one thousand dollars in the

The Commissinner of Works and Mines, who shall Treasurer; the Deputy Commissioner of Works and Board be invested in the securities authorised by law Mines, who shall be Secretary. One person to be appointed annually by an official in the employ of the coal mine owners, or if they fail to appoint such percoal mine owners, or it they tall to appoint such per-any order retain the monthly dues payable to the son, then such person shall be appointed by the Branch by every member thereof, and shall pay over Governor-in-Council from among such mine owners, to the proper officer of such Branch the amounts so years by the Branch Societies herein before referred to. The Board shall meet at such times as it may apto. The Doard shall meet at such times as it may apreceive such remuneration for their services as the Governor-in-Council may determine.

4. Such Board shall have power to make all necessary regulations and orders for the organization, administration and government of such Society and the Branches thereof, and for a scheme providing old age and total disability pensions for the members thereof, which regulations having been approved by the Governor-in Council, shall have the force of law.

powers hereinbefore conferred, the Board shall have power to make regulations and orders touching the following subjects:

(a) Providing a constitution for such Branch Societies.

(b) Appointing all necessary officers to inspect the books, affairs and administration of such Branch Societies.

(c) Formulating a scheme providing for old age and total disability pensions for the members of the Society, and determining the sums to be contributed in aid thereof by the members and the coal mine owner.

a body corporate under said name: Provided, how. cil consisting of one representative from each Branch a convergence under sau name: rrovided, nowever, that any person becoming a member of this of the Society for the purpose of electing the two reever, that any person becoming in force of this Act suffering presentatives mentioned in paragraph three hereof; juries received, may be excluded from membership in years in the same place for the same purpose; the 2. When or so soon as thirty persons are emitime of each representative shall be paid by each ployed in any coal mine, and in connection with the Branch. In addition to the power of appointing such works incidental thereto, a Branch of such Society representatives the Council shall have the right to suggest to the Board a revision of the Branch Constitution and changes in the regulations for the Old Age

Old Age Pension Board" hereinafter called "The hands of any Branch, and so that at no time shall any The Commissinner of Works and Mines, who shall lars in its possession, and such sums shall be kept be Chairman; the Provincial Treasurer, who shall be intact to the credit of each Branch, and may by the for the investment of trust funds.

7. The owner of every coal mine shall without retained, or if no Branch is organized he shall remit the same to the Treasurer of the Board. The owner shall also, without any order, retain the monthly contribution payable by each member to the Pension Fund and remit the same to the Treasurer of the Board. No fee or allowance whatever shall be due or payable to any owner or employee of such owner for such retention or paying over of the said dues

8. The financial and other affairs or each Branch Society shall be managed by a Committee to consist of seven persons, four of whom shall be appointed by the members at their annual meeting, one person to be and particularly, but not so as to limit the general nominated by the owner and two persons to be nominated by the owner and two persons to be nominated by the Board. The Committee that nated by the Board. The Committee shall, from their number, appoint all necessary officers for the transaction of the business of the Branch, and shall in all matters he subject to the constitution and to the regu-

The Governor-in-Council may annually pay to lations of the Board. the Treasurer of the Board, or if a Branch Society is for each member, and such sums shall be payable ance with the provisions of said Unapter, shall con-quarterly. The Governor-in-Council may also annu-tinue to be the assets, contracts, liabilities and obligaquarterly. The Governor-in-Council may also annuttinue to be the assets, contracts, hamiltes and congarily pay to the Treasurer of the Board a sum not in tious of the Branch organized in substitution therefor. for each member, and such sums shall be payable excess of twelve and one-half cents per month for each member in aid of an old age pension and total disability provision for the members of the Society, such sum to be payable quarterly.

10. (1) The owner of every coal mine shall pay

shall also on or before the 1st day of October in each they deal only with definitions. Some of the amendyear pay to the Treasurer of the Board in aid of the ments, it may be, need amendment. Old Age Pension Funi the sum of seventy-five cents

(2) Where at any coal mine less than thirty perfor each member. ed trom payment of the contribution to the courty quired by this section, the owner or agent or such a perinted perinted by this section, the owner or agent or such a perinted by this section, the owner or agent or such as the perinted by the perinted by this section, the owner of agent or a perinted by the perinted by this section, the owner of agent or a perinted by the perinted by this section, the owner of agent or a perinted by this section, the owner of agent or a perinted by this section, the owner of agent or a perinted by this section, the owner of agent or a perinted by this section, the owner of agent or a perinted by this section, the owner of agent or a perinted by this section. sons are employed, the owners thereof shall be exempt-

11. The Board shall forthwith establish an Emer-Board may seem proper gency Fund for the purpose of enabling special aid to be granted in cases of serious disaster at any coal mine or in such special cases as to the Board may seem reasonable. The Board are hereby authorized to pay and apply to such Emergency Fund the sum of ten per centum of all surplus funds deposited with the Board as aforesaid. The Treasurer of each Branch Society shall annually on or before the first day of of October in each year remit to the Treasurer of the Board the sum of thirty cents per capita for each member, which sums shall by the Board be paid and applied to the Emergency Fund. The Governor-inapplied to the Emergency Fund. The Governor-In-Council may also annually pay to the Treasurer of the Board in aid of the said Emergency Fund a sum not in excess of two thousand dollars.

to small the available for the support of the widows of Act, in line four of said sub-section, and inserting in the Bociety in accordance with regulations lieu thereof the words 'third day of March, A.D. 1904." members of the Society in accordance with regulations lieu thereof the words 'third day of March, A.D. 1994.

to be framed by the Board; and when and as soon as Scientification of the second line thereof, Scientification of the second line thereof the word 'Commissioner' in the second line thereof. salu Emergency Fund with accumulated interest the word Commissioner in the second line thereof, be available for the ava be available for the support of the children of de- Act. ceased members in accordance with regulations to be

13. The relief given by any Society or Fund esframed by the Board. levy under execution for debt of any kind.

resulting from any wrongful set, neglect or default.

This Act shall come into Torte when and as some so employed, changes such mode of payment to soon as proclaimed by the Governor-in-Council by the getters of the mineral and pays such persons ac-

publication in the "Royal Gazette," and when and as soon as this Act is proclaimed. Chapter 23 of the Revised Statutes, 1900, is repealed, and all contracts made thereunder shall cease and have no further

16. Notwithstanding the repeal of Chapter 23. operation. Revised Statutes, the assets, contracts, liabilities and established, to the treasurer of such franch, a sum Revised Statutes, the assets, contracts, monthless and not in excess of twelve and one-half cents per month obligations of each Relief Society organized in accordance.

MINES REGULATION ACT.

PROPOSED AMENDMENTS.

The following are among the most important of to the Treasurer of the Branch Society organized in the Treasurer of the Branch Society organized in the opposed amendments to the Mines Regulation the proposed amendments to the Mines Regulation the proposed amendments to the Mines Regulation and Society 1 to 3 with sub-sections are omitted, as

Clause 'b.' of Sub-section four of Section five

is repealed and the following substituted therefor: (b) If for any reasonable cause there is for the

time being, no manager of a mine qualified as required by this section, the owner or agent of such hereinbetore mentioned; provided, nowever, the mine may appoint any person holding a certificate as Board shall have power to appoint any agent or re-underground manager, under this chapter, to be manpresentative at such mine with such powers as to the ager for a period not exceeding one month, and notice Commissioner, and shall be subject to his approval. (This amendment is to be commended.—ED.)

Clause (c) of Sub-section 4 of Section five is amended by inserting the word 'or' after the word owner, in the third line thereof, and by triking out

the words 'or manager' in the same line. 6. Clau-e (d) of section six is repealed, and the

following substituted therefor:-The Commissioner shall have the power to cancel or suspend the certificate of the person into whose conduct the enquiry has been made, if he finds that he is by reason of incompetenty, drunkenness, or gross negligence, unfit to di-charge his duty, or has been convicted of an offence against this Chapter

(This amendment makes the clause conform to

common sense.—Ed.)

Sub-section four of section ten is amended by not in excess of two thousand dollars.

12. So soon as said Emergency Fund with accumulated interest amounts to Fifty Thousand Dollars, striking out the words 'coming into force of this company to the words of the company to the words of t

9. Sub-section one of Section 22 is amended by adding thereto the following words: 'If the owner, agent or manager of any mine, where the amount of

to persons injured, or to children or other dependent the wages paid to any of the persons employed in relations, shall be exempt from attachment and from such mine depends on the amount of mineral gotton. Nothing in this Chapter shall affect the are paid by cubic measurement or by the car or box liability of any person or corporations for damages of a standard weight mutually agreed on by the cording to the weight of the mineral gotten by them, and such owner, agent or manager endeavors to set up inserting before the word 'By' in the first line thereand maintain a new standard of weight for any such of," except in respect to offences against Sections 29, car or box, without having first had an agreement 30, 31 and 32 of this Act. made in writing with a majority of the persons so employed sanctioning such new standard of weight for any such car or box, the matter shall be determined as provided in sub-sections 3 and 4 to this section.

hill case. - Ep.)

10. Sub-section, three of section twenty-two isamended by inserting the words 'or new standard of

Sub-section four of Section twenty-two is amended by inserting the words 'or new standard of weight' after the word 'deductions' in the second line thereof.

12 Section twenty-three is amended by striking out the words after 'Chapter' in the fifth line thereof, and substituting therefor the words and shall be liable to a penalty of not less than fifty dollars, or more than one hundred dollars, and for every day on and the quantity, mined has increased in proporwhich such contravention occurs, it shall constitute a tion to the demands of trade. separate and distinct offence.

is Section twenty-one of the Act as in the Statute This amendment is rather sweeping, and Book is scarcely just. It makes the owner, agent or manager each liable to conviction and penalty no matter whether the subordinate acted in direct violation of instructions of his superior officer. It is possible, however that in any action the court would take a common sense view of the matter and not hold a manager guilty of the Act of a subordinate if he could prove he had taken all necessary means to prevent him committing the offence.-ED.)

13. Clause 'd' of Sub-section four of Section 29 is amended by inserting the words 'or town' after the

word 'municipality' in the first line thereof.

14. Sub-section five of Section 42 is amended by striking out the word 'two' in the fourth line thereof,

and substituting therefor the word 'four.'

15. General Rule 2, under Section forty-six is amended by striking out the words 'that part of the mine being or intended to be worked, and the road-ways leading thereto' in lines 4 and 5, and substituting in lieu thereof the words 'every part of the mine except places abandoned and properly fenced off according to law.

This amendment (13) is no doubt an outcome of the Port Hood explosion .- ED.)

16. General Rule 3 under section 46 is amended by striking out the words 'that part of the mine, and the roadway leading thereto' in line five thereof, and substituting therfor the words 'with a safety lamp every part of the mine except places abandoned and properly fenced off, according to law.

17. Section forty-six is amended by inserting after 7 the following General Rule:

7A. Every mine examiner shall, at all times, while in the discharge of his duty as mine examiner, use a locked safety lamp.

Sub-section one of Section fifty seven is amended by adding the words 'except as in this Act, otherwise provided.

19. Clause 'd' of Section fifty-nine is amended by

SUBMARINE COAL MINES.

(The foregoing evidently bears on the Spring- PAPER PREPARED BY JOHN JOHNSTONE, OF SYDNEY MINES, FOR N. S. MINING SOCIETY.

In preparing a paper upon the above subject, weight after the word 'deductions' in the first line many different phases which may present them it is impossible to deal exhaustively with the selves, but for the present this paper will simply deal with the matter in a general way.

As is undoubtedly known to mining men, our principal heritage along the eastern seaboard of the County of Cape Breton is the valuable coal seams, from some of which the coal has been extracted for more than seventy years. has been almost all taken from the land areas,

In 1902 the attention of Mr. H. M. Whitney (Sec. 10n twenty-three of the Consolidated Act and other capitalists was drawn to the rapidly increasing demands for coal, the possible expansion of the trade, and the necessity of reducing the cost of production, which eventually led to the amalgamation of a number of coal companies (whose operations as individual companies were not always attended with satisfactory results) into what has since been known as the Dominion Coal Company, Limited.

To the companies thus depending entirely upon water communication to reach a market for their product, conditions presented themselves which seemed beyond control, viz, shortness of shipping season and the need of a regular and continuous market, which subjected their business to extreme fluctuations, from producing all that was possible during the season of shipping, to enforced idleness during the winter months.

All this has been changed by the energetic action of far seeing men, and since 1897 new markets have been found at home and abroad, requiring a constant supply of coal. Trade has expanded beyond the most sanguine expectations, and as a result collieries are required to work continuously, and labor has been given, not only to those who hitherto were compelled to remain idle during a large portion of the year, but to a largely increas-

ed number.

Up to the present there has been but little done in the way of submarine mining, except by the General Mining Association of London, which has been absorbed by the Nova Scotia Steel and Coal Co., which is at present continuing the workings. Mr. Henry S. Poole, of Halifax, N. S., read a paper before the Institute of Mining Engineers of England at a meeting held at Nottingham, England, on Sept. 3rd. and 4th., 1903, and which is to be found in that society's transactions, in which he clearly set forth the conditions under which the coal in these submarine areas was then being extracted. The writer has much pleasure in confirming all that Mr. Poole has sald relative

But a new condition of things is arising; certain well known seams are rapidly being worked out on the land areas, and the necessary of generation and so as to extract coal five of more ally extracting the coal from the submarine areas the shore line in a manner that would give a fair of our country, greater by far in quantity than return to the investor? that originally contained in the land areas, is be-

Naturally the question now is, not so much one coming acute. regarding the extraction of coal from a submarine area extending about a mile from and parallel to the adjoining shore, but how should the operations in leases next to the shore line be undertaken, so as to unable investors to reach out several miles from the shore to extract coal therefrom, that they may have a fair return for the money invested; also, how should we guard with money invested; also, now should we guard with safety all those who may be engaged in the pro-secution of the work, and how may we win the greatest possible quantity of coal from those areas, leaving uniqueed the outlying properties and where an the coal is to be still meeting the requirements of trade?

Sth. What is the most efficient method of These are problems of the highest interest, ventilating workings in a submarine area, where

and in the proper solution of which, it appears to coal is being extracted, two or more miles from the writer, are involved matters that might be the shore or exit? the duty of the government to investigate.

the Eastern seaboard of Cape Brston are coal bearing strata, upon which, until a recent date, no submarine leases were granted, excepting those to the General Mining Association at Sydney Mines, at Barasois and at Lingan, to Charles Campbell at Burnt Head, and to the Blockhouse Company at Cow Bay. Recently a large number of leases extending miles seaward have been applied for and granted—in fact all the distance mentioned has been covered. The descriptions vailing in every fifth year since 1857: in the leases have not always been accurate or clear, and litigation has arisen as a consequence, and more is likely to follow.

Two questions might here be asked, first: Why were not proper monuments for reference established, so there could not be any doubt about the location of each and every lease or area, whether submarine or land? And, second: Will not a large amount of coal be lost if the present apparently unsystematic distribution of coal leases

is not modified?

only can coal be mined successfully in submarine water mark reached during the five years. Because areas in the usual way by bord and pillar, but, tween 1892 and 1897 the highest point reached marks are as a subject of the coal car be as a subject of the car be as areas in the usual way by bord and phiar, but, tween 1892 and 1897 the highest point reached under certain conditions, all the coal can be ex- was 6s per day, which was maintained for ten tracted therefrom. It has also been demonstrate months only, while between 1897 and 1902 the day that the extraction of coal from submarine ar- Scottish Coal Trade Conciliation Board having

that may have already been mentioned) are as

opened up so as to leave sufficient protection, much shorter now than it was.

out on the land areas, and the necessity of generand so as to extract coal five or more miles from

the extraction of the largest possible quantity of coal from the several seams at this distonce? 3rd. Where pillars are required to be left,

what size should they be? at size should they be?
4th. Under what conditions should the different sections of a mine be worked?

Can all the coal be taken in the first 5th. Under what conditions can all the coal workingi?

6th. What would be the proper method of extracted?

procedure to lay out a mine in submarine area, where all the coal is to be extracted?

What is the most efficient method of

What is the most efficient system of e duty of the government to investigate.

What is the most ended of second system of Extending for a distance of forty miles along had age from submarine areas two or more miles

10th. What is the best method of taking workmen to and from a given point two or more miles from shore or exit?

MINERS' WAGES IN BRITAIN.

The following statement shows the wages pre-

In 1857 the wage was 6s 0d per day. 3s 9d 44 ** 1867 ** 10s 0d " 1872 44 4s 6d " 1877 .. 4s 6d 44 " 1882 4s 0d .. " 1887 5s 6d # 1892 44 4s 6d " 1897 5s 9d 46 # 1902 66 7s 3d

In England, where this question has had the These figures cannot be called an average for the In England, where this question has had the these igures cannot be called an average for the careful consideration of mining men for years, it five years included. In all cases but two (1807) has been demonstrated beyond a doubt that not and 1902) the wage quoted represents the toped that the extraction of coal from submarine ar-Scottish Coal Trade Conciliation Board having eas can be successfully done at quite a long discome into existence in the interval, wages rose tance from the shore line, as instanced at the from 6s 3d in 1899 to 8s in 1900. In 1901 reduction white Haven colieries of Cumberland county, tions came in rapid succession till, in 1902, the England, and several other places where coal is wage was down to 5s 6d. The 10s wage quoted England, and several other places where coal is vage was down to 5s 6d. The 10s wage quoted being extracted and drawn a distance of four or for 1872 represents the top-water mark of an expension. These the privated difficulty are continually risk paried, which leated for these There the principal difficulty ap- ceptionally rich period, which lasted for three The summary of the whole position is pears to have resulted from the number of faults, years. The summary of the whole position is dislocations, anticlinals and synclynals which that, in 1857 the wages of miners was 4s per day, which the summarine areas of Cape Breton county are entirely in half a century of 3s 3d per day. If we go back marine areas of Cape Breton county are entirely in half a century of 3s 3d per day. If we go back free of any such conditions, and therefore are of to 1854 we find the wage 5s per day, showing very great value from a commercial standpoint, when compared with what is reckoned a big wage. In the mind of the writer, some of the princip, in 1907, that the miner of that paried regular Very great value from a commercial standpoint. When compared with what is reckoned a fig wago.

In the mind of the writer, some of the principin 1907, that the miner of that period received all questions to be considered (in addition to any only 2s 5d less than he is receiving at the present that they have already been recruited as a standard result in a standard been recruited as a standard result in the standard recruited as a standard result in the standard result is standard result in the standard result is standard result in the standard re lows:

1st. How should this territory be successfully course, that the miner's working day is very

MARITIME MINING RECORD.

The MARITIME MINING RECORD is published the second and fourth Wednesday in each month.

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************ NOVA SCOTIA MINING SOCIETY.

ANNUAL MEETING.

The annual meeting of the N. S. Mining Society was held in the Board of Trade rooms, Halifax, on Wednesday, 25th inst., and, owing to the large amount of business to be transacted, was continued on the succeeding days, 26th and The attendance of members was large. The President, C. J. Coll, occupied the chair.

Among the prominent visitors present were the following: Dr. Parker, of the U.S. Geological Survey; Dr. Haanel, Director of the Mines Branch, Ottawa; Mr. McLeish, Statistican of the Mines Branch, Ottawa; Dr. W. G. Miller, Ontario; Hugh Fletcher, of the Geological Survey, Ottawa, E. R. Faribault, of the Geological Survey, Ottawa.

The President's address was a masterly one and covered a wide field. It was at once interesting and instructive, and was followed, as it deserved to be, by the closest attention of every one in the room. The President first welcomed the guests. Then congratulated the Society on the largest attendance in its history. Kindly and sympathetic reference was made to the loss the Society had sustained during the year in the removal by the grim reaper of three of its members, viz., Messrs. T. R. Gue and J. J. Stewart and Dr. Gilpin. Briefly he summed up the distinguishing qualities of each, and paid a fine tribute to their characters. Passing on to Technical Education, Mr. Coll extolled the work which an absent member of the Society, Mr. A McNeil, had done in this connection. had done in this connection. The President also complimented the Hon. R. Drummond, Past Pres. Hayward, Dr. Woodman, Hiram Donkin and Prof Sexton, as having given valuable assist-The address referred to Technical Education: The financial depression (which affected M. S. least of all); Coal production; Harvest Excursion Rates (which he condemned); Mineral prosperity; Gold mining, &c. We regret that we have not space to give the address in full. succeeding sessions many interesting and instrucsucceeding sessions many interesting and institute the papers were read by Mr. Badger, Prof. Wood—is a matter of education, as it will usually be man, Prof. Sexton, A. A. Hayward, Percy Brown, found that there are miners or efficials who make— Harry Coll, F. F. Ronan and others. The papers a close study of this question. Returns will show of John Johnston on "Submarine Mining," Pres. Coll on "Explosions," A. A. Hayman on "Fuel Economy," and the papers by R H. Brown and Harry Coll were all most interesting to the 'coal men present. Reference will be made in this and succeeding issues to some of the papers.

MINE EXPLOSIONS.

After having made reference to the recent great mining disasters in the U. S, and their

"Probably no question in connection with coal mining in recent years has attracted more or wider spread attention than this-both before and after the explosions under discussion. especially is this true in Great Britain and on the continent, where many commissions have been appointed to make careful examinations of powders for coal mines. As a result of such commissions legislation has been enacted whereby only such powders as may be used as have passed the most rigid tests and come under the head of permitted explosives, and named for specific conditions and purposes. It is not within the scope of this paper to touch only briefly on this subject. It is not claimed by the manufacturers of socalled flameless powders, nor if so claimed would it be admitted by practical mining men, that under any and all conditions such powders are "safe." The question that confronts us is that The question that confronts us is that for economic reasons we are obliged to use some explosives to blow down coal. This being the case, what explosive shall be used? Certainly not those which, on every hand (from past experience) have been condemned. I would therefore not consider the use of any other than a so-called flameless powder. Even with this there are dangers well known to the officials and workmen who are in daily contact with its use. It is needless to say that it should never be fired in the presence of gas nor should it be used for fast shooting, especially in a dry, dusty mine. It. is a well known fact that a shot well placed and exerting its maximum amount of energy in material won is least dangerous; hence the danger of blown-out shets.

Again, it is well known that even the best of the flameless powders will not explode, but burn in the hole. Taking into consideration the propertien of coal which may only be wen economically by shooting, it remains for the Mine Manager of to-day to use the explosive least liable to cause such disasters as have taken place within the past five months, as I am of the opinion that nearly all of them were directly due to the use of so-called non-flameless explosives in the presence of other elements of danger. The essentials of shooting to reduce as far as possible every chance for disastrous results are comprised within certain precautions:

First.—The working face to be shot should be properly mined and sheared (if a close cut) to permit of the greatest effective energy of the charge being consumed in the breaking down of the coal.

Second .- Holes should be so drilled as to bring maximum results from a minimum charge. day in and day out that certain men will put out more coal per given quantity of powder than others. Their method of holing and charging should be the basis for like conditions,

Third .- No fast shooting should be allowed under any circumstance or condition. I feel sure

tors and workmen. A detailed defence of this a safe and proper manner. declaration would of necessity be a paper in itself.

I will therefore confine myself to a simple assershall be first connected to the fuse wire. and the tion that there are more dangers connected with fast shooting due to the possibility of blown-out shots than with all other troubles combined inci-dent to the use of explosives. This has been recognized by some districts, and is a matter of each person being in a safe place before any shot legal regulation.

I offer for your consideration the rules governing shooting which have recently been pat into practice in the mines of the Acadia Coal Csmpany:

When a miner holding a Shotfirer's certificate is given permission to fire his own shots, before firing he must carefully examine the place where the shot is to be fired, and if he discovers any noxious gases, defects in the roof, or danger from any other source, no shots must be fired

three feet deep, the full size of the place, or have that no other than copper-tipped or wood be ing an open end equal to the same, without special used.

permision. used for firing extends beyond such mining, shot. It would be his duty to examine every shearing under-cutting or open end. All holes found beyond such mining, shearing or open end will be termed fast shots

4. No shots must be fired with the timbering at a greater distance from the working face than eight feet, or closer if required by the manage-ment, or by a special permit, that timbering may be a greater distance from the working face.

repair or make safe, he shall immediately notify some official at the time in charge of the mine or district in which he is working.

When a "Bench" shot has been fired, the miner must immediately proceed to turn over the restored.

coal or load it out.

7. If the shot fails to go off, no person shall be permitted to enter to the working face until such time as he receives permision from and is accompanied by the Examiner of that section.

8. No holes shall be charged for a longer period than 30 minutes before being fired.

9. If, owing to an insufficient charge of powder, a face shall be "hung up," all the coal to the depth of that shot must be mined out by hand pick or machine, unless permission is given by the examiner of that section to drill and fire another

No miner or shot-firer shall have any charged hole in his working face, when quitting

work for the day. 11. No person shall drill any hole in such manner that when fired it will be liable to shoot i ato either roof or bottom of the coal seam.

12. If a miner, at any time before or after firing a shot, finds that any timber requires to be set or replaced, he must not leave the place until such requirements are duly executed.

this position is subject to attack both by opera- when required to do so, and to work his place in

14. In firing shots with a battery, the wires connection to the battery shall be made only by the person who has made the connection with the fuse wire.

15 Every precaution must be taken to ensure

16. No battery shall be tested or tried at any

point outside of the lamp station,

17. No batteries shall be permitted to be used by any other than one holding shot-firer's papers. No person shall be permitted to fire shots without permission from the examiner or official in charge of the mine.

By special order another rule has since been put into effect, namely, that all holes must be stemmed with clay. It will be noted no mention 2. No shot must be fired until the face is is made of stemming bars or needles, as the either sheared, mined or undercut, not less than Mines Regulation Act of Nova Scotia provides three feet deep, the full size of the place or have

rmision.

No person other than a regularly appointed.

No shot must be fired, when the borehole official shot firer should be permitted to fire a place before shooting, and also to see that holes are properly placed and drilled, and to make a study of the amount of charge required under any condition which may arise. It should also be his duty to instruct unskilled labor in their duties, and warn them of dangerous conditions.

There are two bugaboos facing operators in changes (so far as operators are concerned in be a greater distance from the working face.

5. He must return immediately to each shot their relation to labor) namely, from open to after it ares, and if he should find that the shot closed lights and in explosives. The antagonism has lighted a blower of gas, liberated a quantity to such changes on the part of workmen is largedgas, or disturbed the roof or timber, and caused ly one of sentiment. I do not hesitate to say danger beyond his control, to either extinguish, that where better and safer means are adopted the roof of the safer means are adopted. for the preservation of life and protection of property, and when workmen become familiar with such means, they would object as strenuously if the old customs and practices were

COAL DUST .- This menace to all coal mining has probably been the cause of more i eated discussion for and against its explosiveness than any condition connected with mining. From the days of Faraday and Lyell until the present time this question has been a matter of dispute That it will augment the force of an explosion of firedamp is, however, recognized by practically all mining men. It is also generally admitted that a so-called negligible per centage of gas and coal dust may, under certain conditions and mixtures, become explosive as a mixture. The careful mining man should not be led into splitting bairs in any matter wherein there is the barest possibility of danger Such questions had best been left for discussion to persons whose interests are not of a financial nature in mines or mining. Fewer accidents will happen if the gun is always treated as being loaded.

The theories advanced that in itself (coaldust) more danger is to be apprehended in Winter than in Summer, in intake airways than in returns, in high air velocities than in low, should 13. He shall also set sufficient holding props receive no consideration from Mine Managers whose duty it is to keep a mine up to its highest effective point, which precludes the possibility of accident, where accepted measures of practice, if employed, would avert them. The only known amount of charge effective and practical solution of overcoming the

difficulty of dust is humidity.

The simplest and no doubt the best plan is by sprinkling Obviously the more nearly this approaches saturation the better. At this juncture I wish to lay particular stress on thoroughly wetting floor, sides and roof. Especially is this necessary in main haulage ways used as an intake, for the reason that explosive forces invariably travel against the current of fresh air, and it is officials, and see that all parts of the mine are been greatly reduced when such an airway or district has been reached when coming from in-spirit as well as to the letter, the appalling calbeen suggested that a small proportion of lime would not have occurred. added to water will reduce combustibility of dust materially. Humidity may also be greatly increased by means of sprays in the intakes. is readily accomplished in deep mines where a head of water may be obtained from discharge columns. From there small lines may be run to intakes. By small perforations in coils, air may Intakes. By small performances in constant may be thoroughly saturated. While much of the A paper by F. P. Ronan entitled "A practical sugmoisture would no doubt be precipitated within gestion for testing the Gold Mines of Nova Scotia,

Acadia Goal Company that during the latter part coal men were relentless, and made no move towards

to cover local conditions.

known that no evasions on their part are countenanced or contemplated, workmen will be more plan propounded in Ronan his paper, amenable to discipline

laws and take suggestions even beyond the laws which make for the betterment of conditions.

Fourth—Exercise strict discipline with workmen, and educate ignorant and unskilled labour to meet dangerous conditions.

Fifth-Use none other than approved safety lamps where fire damp or dust are likely to occur. Sixth-Abolish electric mining machines in dry gaseous mines

Seventh-Prohibit the use of all explosives except non-flameless ones.

Eighth-Permit no fast shooting.

Ninth-Prohibit the use of coal dust for tamping.

Tenth-Supervision as to placing of holes and

Eleventh - Employ regularly appointed shotfirers to fire all shots.

Twelfth-Allay coal dust as much as possible by sprinkling or other means

Thirteenth—Remove all coal dust after machines before firing shots.

Fourteenth-Have adequate ventilation and

egulated to meet conditions.

visited at frequent intervals.

If such regulations had been carried out in the amities which have been the subject of this paper

Rubs by Rambler.

A paper by F. P. Ronan entitled "A practical sugmoisture would no doubt be precipitated within gestion for testing the dole alines of Nova Scotia, at its a short distance, enough would remain in suspenate a short distance, enough would remain in suspenation to overcome the difference in humidity as recent meeting, begins thus;—"Various plans have between Summer and Winter. In other words, been suggested for the encouragement of gold mining it would be uniform the year round. FIRE DAMP.—Little need be said about this, There's the Mining Society itself who suggested that for, like the poor and taxes, we have it with us the one thing needful was that the Government go Well regulated and distributed ventila- halters in sinking a thousand feet or so shaft. The tion is the only remedy. Constant vigilance, fre- Government came to time, and yet not one of the quent inspection and rigid discipline are abso-members who vehemently arged this plan displayed any the processary in order to prevent accidents. In alacrity in taking it up. Each one is waiting for the my opinion, the barometer should be carefully other fellow to put his hands in his pocket and lay considered as a means of warning. Treated as down dollar for dollar with the Government. Then a such, it will induce extra precautions and watch- well known gold miner assured us, seriously and fulness during periods of atmospheric disturb- solemnly, that the lack of progress in gold mining ance. It may be of interest to the members to was the fault of the coal men. The price of fuel was know that it was remarked by the officials of the altogether too high. It was ruining the industry. The of the year 1907 there were frequent and violent lowering prices, Moreover, the gold mine using the fluctuations of the barometer recorded. It was most coal, while baying the poorest pay ore, kept on during this time the explosions under discussion the even tener of its way paying dividends, therefore this plan also fell flat. There has been other plans, too In conclusion, I would recommend as follows: numerous to menticn as they say in the auction bills, First-Frame simple, effective, stringent laws but not one of them approarhes in ingenuity in boldness of conception, in assurance of its great possibilities Second-Operators obey the laws. When it is and easy practibilities, in its novel simplicity and at the same time dumbfounding depth of originality than the

The author admits that the Government's former Third-Court the closest inspection under the proposals were exceptionally favorable, but the paper suggests that, though generous the proposals were not quite practicable. The author takes it for granted that we have in N. S. a wide extent and distribution of gold bearing deposits. I admit that a fellow named Rica do after a hop, step and jump over the Province, assured us that in our beliefs as to gold in abundance we were living in a fool's paradise. But as between Ricardo and Ronan we are all with Ronac. The author, so far from agreeing with Ricardo, says: "the chief trouble with Nova Scotia is that there are so many openings and opportunities for the investment of capital in gold mining." Will any one dispute these statements. There are openings in every county that shows

count, or rather was not counted when the openings incurred, and which had not resulted as expected, leavwere made. And as for the opportunities, my sakes ing him to carry on any further work. they confront you on every side. I am not a gold miner, fore me for investing money in gold openings; and on illustration, that the second property, as the result of five occasions I have embraced them. You ask me the expenditure of, say \$50,000, within six months is "How much richer are you?" Get away man; if I am not richer in gold I am a good deal richer in experi- and we will assume that conditions keep improving, ence. Yes, a very great deal. Our author tells us and that after two years working we have made a mine ence. Yes, a very great deal. Our author tells as and that after two years working we have made a mise
"There are without doubt in the Province to-day a which may be submitted to the most exacting tests rethousand gold mines." Well, that is comforting in a quired by competent mining engineers, then I would, as
sense, or consoling. It shows that opportunities preminister of mines, inform the owner that the Governsented themselves to a large number of Nova Scotians ment would exercise its option of purchase on the price and thousands of them regarded them, and are richer also-in a certain direction. After deploring the ill success and bad management of the gold mines, in the past, the author proceeds to propound his plan, and that it is left to a layman to make so far reaching a dis-

"If I had the honor and responsibility of filling the chair or department of mines in Nova Scotia I would start the ball rolling by inviting the attention of all practical mining men to the fact that the Government is prepared to undertake gold mining development with the sole object in view of creating a very much wider measure of interest in the same than at present exists. I would next issue an invitation to all owners of gold mines throughout Nova Scotia to forward to my department, within a certain date, as complete a description of their property as they could furnish, accempanied by maps, plans, mill returns, &c., and also an offer in a formal way, of the property to the Government at as low a price as they consider they could accept. I would ask them each to specify that the Government would have the right to a three year's working option, it re-

quired, without charge. such an invitation would be a most generous one. would employ two or three practical mining engineers who have had the necessary training in picking out prospects which promise the making of good mines, and whose judgment in nine out of ten cases is usually found correct, as verified in many western camps. would then take the most premising property selected by these experts, one from each district, and on a cert in day to be determined, in the presence of these interested, I would draw by lot the property to be exploited. In this manner I would avert, as tar as possible, any charge of partiality toward any district or any determine which one of, say a dozen properties, each equally promising, should enjoy the first attention. With the property selected, then I would map out, or have my engineers plan a scheme of development for the purpose of placine in sight bodies of ore, and in short the making of a mine. I would then ask for an appropriation of sufficient money to carry on this work, and see that it was prosecuted vigorously and scientifically to its logical conclusion.

"We will assume, for instance, that after selecting the property in this monner, that it has been decided in as the result of six month's careful underground work thousand dollars, and I am out in sympathy with them. the results are unsatisfactory from an engineer's standpoint in the way of preducing a measurable pay ore body, then I would hand the property back to the original owner and relinquish the option of purchase, Coal League—of course I refer to Mr. W. C. Milner—

rocks; the formation or color or size of them does not letting him have the benefit of the expenditure so far

"I would then repeat the operation as already described, on another property, and we will assume, for so far satisfactory as to warrant a still further amount, first agreed on, and the property would then belong to the people of Nova Scotia, together with all its improvements. If it were thought necessary to carry on the development still further, very good. But if already in pass, the author process to professional gold miners a position to be called a mine, then I would cause to surely it is to the discredit of professional gold miners a position to be called a mine, then I would cause to be prepared a full, frank and complete statement of the property, describe it in detail, illustrate its ore occurrences, the tonnage of ore that had been developed, and such other facts as may safely be predicted by an such other tacts as may sately be predicted by an undertaking of this kind. I would advertise the property in the leading mining and financial journals of England, Europe, United States and Canada, stating that on a certain date in the future this property, as described, would be offered for sale by public auction to the highest bidder, thus provoking competition from the keenest mining investors all over the world, and backed by the unquestionable evidence of actual ore bodies blocked out, and with their qualities, there would be little difficulty, in my opinion, in effecting a sale at a price far beyond the original cost of the property and the improvements. The sum derived from such a sale would then be turned into a fund for re peating the operation indefinitely in the various districts as fast as they could be reached, thus permitting an "I have not the slightest doubt that the response to ab-olutely necessary work being carried on without cost to the Government, and focusing attention upon one of the most valuable possessions which this Province enjoys, viz., its undeveloped gold resources. The operation would then become continuous, and with the steadily added string of mining properties which had been proved beyond question, would come a very great revival of interest and enthusiasm in our properties, and it might even be unnecessary for the Government to continue the programme unless its merits had entitled it to a foremost place as a practical method of progress. The author's proposal, however alluring it may be,

will not be accepted by the present economical Governone property, and I believe it would be the only way to ment. Probably there may be reasons why the Goymay see no necessity to bond gold areas so long as any number can be obtained free. I am in favor of Ronan's proposal, only I want it made much wider in its application. You see, it's this way. I have an iron ore property at Whycocomagh, or perhaps I should say I have a property on which there is or is supposed to be ore. I am willing that the Government should expend fifty thousand dollars on it. I will give them an option on it for half the sum. After spending fifty thousand dollars, it they find ore I shall be prepared to receive the stipulated cash. The gain will be mine, and gain ing a mine of this prospect, and assuming turther that and glory theirs. If ore is not found, they are out fifty

The Sec-Treas, and Managing Director of the Free

is not at all pleased that attention should be pointedly changed their views about reciprocity? The wonder is, called to the fact that he has been thoroughly converted to the Dominion Coal Co. If attention was called the Secretary continues intermittent blasts on his old to the fact, is it wonderful? Is not the conversion a notable and astonishing one? If the Sec. of the Coal Trade League has been so thoroughly converted, there is almost justification for the belief of Burns, that the deil himself may yet take a thought and "mend."
Than the Sec, of the League, the Dominion Coal Co. has had no more bitter and vicious opponent-up till three or less months ago. The Secretary does not deny the thoroughness of the conversion, but he is at pains to assert that the Mining Record was not a con-tributor to that act of grace. This may be but natural. tributor to that act of grace. This may be but natural. It is pretty hard for a fellow to confess that he has been "The Trade" to a point of desperation, and it is convinced by the reasoning of an opponent. The Sec. proposed to stay the passage of the Bill by an exof Mr. Drummond. This gentleman was once an adthus:-Firstly, a reciprocicationist; secondly, in the valley faint praise. Well, isn't that the natural order of progression. The time that Mr. D. was in the valley was the time that friend Milner was in the wholesale prophetic business. All were nigh lost in wonder and amaze; some believed in the Secy. for a time and then fell away: Mr. D. may have been in doubt and called for more light, and as that light did not shine forth from the Secretary, he failed to make a convert of the one who has now converted him. But more to the point. Friend M. is surprised that Mr. Drummond believed in reciprocity previous to 1890, and became an unbeliever after 1900. If friend Milner-the Secretary was the least bit of a philosopher he might not be lost in wonder. Prior to 1890 the coal trade of the Province, if not in a lamentable condition, was making no satisfactory progress. Wages were low, the price of coal was low, and there was no money in the business. Does not the axiom 'any port in a storm' contain a good deal of philosophy, and if, taking the condition of the trade into account, Mr. Drummond ran for reciprocity, after the manner of the storm-tossed mariner, running for any port, is he to be severely criticised. Conditions having vastly improved, the storm having passed, why should Mr. Drummond, or any one interested in the trade, run for the 'any port,' the doubtful port of reciprocity, the while there are prosperous breezes towards the home port. Having little, prior to 1890, the coal trade was willing to risk it in an effort to secure something possibly better; having, what may be termed, a sufficiency now, the However, the Bill indicates a forward movement. coal trade is not willing to risk it, even for the opulence which the Secretary declares must follow on reciprocity. The 'Secretary asks if Mr. Drummond got his illumination from Glace Bay. The frank answer to that is, possibly. Previous to 1900 the Dominion Coal Co., the Company doing a bigger business than all the this work of extension is being done the slope, for other companies combined, was under the opinion that some distance below the surface, will be reduced in a very large and profitable business could be done in the United States, and thought, moreover, that as the Canadian market was then limited, that such a market was necessary. Then there came about a change in The home market showed signs of wonderful vitality, so great a growth that the United there might be something good in this Labor Disputes States market, for round coal, was no longer a necess Act. But there is a weakness in the act, or there sity, and the company having adapted itself to the should be another clause appended, viz: No member changing conditions, preferred the bird in the hand to of the Legislature, or any man actively interested in a the possible two in the bush. Is it marvellous that particular political party, should be allowed on, or a-with changed conditions in Canada many should have bout, or within, miles of a Beard of Conciliation.

that in spite of all the light that is shining around him, fog horn. While the Record still claims principal credit for the Secretary's conversion, it is willing to admit that it may have been accelerated by one from the East, who occasionally meets the 'Secretary' in Halifax. From the point of view of the cheap coal to railway men, that one's influence may be looked upon as malign, while from the Coal Companies' point of view it may be hailed as benign.

penditure of millions of money. Many are the vocate of reciprocity, and is now luke warm on the cutting in a way their propounders did not expect. For instance, one who is prominent in "The Trade" in Glasgow, told an interviewer of doubts, and, thirdly, a damner of reciprocity with that he was afraid of shady tactics being resorted to by the more unscrupulous of the publicans. They will make the most of the time at their disposal, he said, before the threatened depression, and much deleterious rubbish will run down the throats of the customers, "I do not seek to dishe continued. sociate." "Many in our line from foisting on the public the vilest decoctions ever drawn outside a sewer... And these men who care not whether they poison their customers, are the men the British people are asked to have consideration for In saying they would do so foul a thing this leader of "The Trade" gives publicans in general a character deserving of nothing but execration. That they have been given fourteen years to put their house in order is but proof of the Britishers' love for what he considers fair play. If he errs in this bill it is on the side of indulgence.

> An Old Age Pension Act, giving pensions to colliery workers who have reached 65 years was introduc-ed by the premier last Friday, The bill it is understood provides for a pension of \$120,00 per annum. The Pension Commission recommended \$4 per week in cases of old age, and \$5 per week in cases of permanent disablement. The probability is the miners would prefer to pay larger dues in order to secure larger pensions.

> An addition is about to be made to No. 2 bank head, Springhill, to allow the handling of 20 cars on a slope rake. Twelve is the number hoisted at present. While grade several degrees. This will greatly facilitate the landing of the heavy rakes contemplated,

> It would almost lead one to suppose that after all

AROUND THE COLLIERIES.

aging outputs these days. All the mines are in splendid Coal Co. was the largest for that month on record. shape for a big summer's work.

The Dom. Coal Co. will have sixteen steamers en-A large number of gaged in carrying coal this year. Cargoes of 6000 to year, the vessels are of large tonnage. 7000 tons will be common.

The output of the Inverness mine is about 900 tons per day at present. Pillars are being drawn in No. 5 and No. 6 levels west. The mine is in fair condition for summer work.

The same staff of officials and the same organization exists this year at Dom. No. 3 as last; and on this account the Record has every belief that there will be things doing this summer.

The Emery-Dom. No. IO-is now producing over 500 tons per day. Mr. McEachren is putting this mine in excellent shape, and to this end he is being well being done. supported by a practical staff.

well advanced, the deeps being down to No. 16 lift, the manly acceptance of the award by the men. They well advanced the deeps being down to No. 16 lift, the manly acceptance of the award by the men. They were fortunate in their choice of men as arbitrators.

The best of feelings prevaiss between men and management at all the collieries of the Dom. Coal Co. mechanics grumbled a little over the award, but they are now content to let things move along quietly mean-

There are those who persist in saying that the Dom. Iron & Steel Co. is after 'Scotia,' All that may be All that may be proposal,

In the event of any prolonged strike of the U. S. of the event of any prolonged strike of the c. S. soft coal miners, the Nova Scotia operators will be in a similar position to that in which they were found on to meet any demand from across the border.

It is understood that all the colliery operators—the Dominion Coal Co. excluded—last week notified the lodges of the P. W A. that they could not accede to the request for an advance in the wages of the unskilled mine and surface laborers, or to mechanics.

Co. will be a dandy-for want of a stronger term-as tric coal cutting machines and a rather novel method of Herald and the Kansas Appeal to Reason. hauling headways coal. that is, taking the coal down the headway from the room.

The shipping season is expected to begin shortly. The collieries are in good condition for big shipments, though the banks of coal are much smaller this year though the banks of coal are made in than formerly. The N. S. S. & C. Co. have about half the quantity on bank they had last year. The coal formerly banked has, owing to the mildness of the season, been shipped.

The March output of the collieries of the Dominion

The Nova Scotia Steel and Coal Co. will send in the vicinity of 270,000 ton3 to the St. Lawrence this

Springhill is still enjoying peace and plenty. But, how long will it last, is always a pertinent question in the community.

Mr. Plummer, of the Dominion Iron and Steel Co. is as contident as ever as to the outcome of the suit before the Privy Council. Those who are not in the inside must just wait and see.

A coal conveyor is being erected at No. 2 mine Springhill, to connect with the culm heap at No. 3 mine, which will supply No. 2 fire doors with coal and will do away with the necessity of carting, as is now

The employees of the Dominion Coal Company and Dom. No. 3 haulage is being extended from No. 14 Cape Breton generally are to be congratulated on the

Grand Secretary Moffatt of the F. W. A. visited inghill recently. Whether his presence in the town Springhill recently. Whether his presence in the town speaks for peace or for war, time will tell. Having sold our birthright for a mess of Yankee potatoes anything might be expected.

It is whispered in Halifax that W. C. Milner has a rod in pickle for Alexander Dick. The Free Coal the President down, ever saw or heard of any such League at the present time consists of the Secretary and a corpse. The evening of the day which sees Mr. M. draw the rod out of the pickle, will witness the reduction of the membership of the League to two corpses.

The Morning Chronicle of 2nd inst. had scare lines former like occasions, viz., they will be in no position over an account of supposed friction between the N.S. concerning the ore seams at Wabana. At no time was this supposed friction hot, not even warm. Chronicle's headlines appeared, the slight difference had been practically settled.

The Press Cammittee of Pioneer Lodge formerly The No. 4 colliery of the Nova Scotia Steel & Coal of the P. W. A. is busy these days and have four papers at least, devoted to their side of the question, viz : The S. H. Tribune; Moncton Free Speech; Halifax ers for various reasons have taken up the labor question, as it pertains to Springhill and are making things hum. The management, who are the objects of these attacks, appear to take little notice of the matter. The management appear to have attained the philosophic mind of the big miner, who, on being expestulated with for allowing his wife (a little woman) to knock him about replied: 'Oh, well, it don't hurt me and it pleases she.

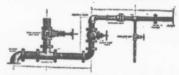
The annual programme of the P. W. A. was laid be for the Government ten days ago, by as able a lot of steps he took to extinguish the incipient fire in the for the Government ten days ago, by as able a lot of steps he took to extinguish the incipient fire in the delegates as ever appeared in the 'Executive Council' mine a fortnight ago. The damage done according to room. The requests of the P. W. A. men were "Commission to enquire into high cost of living." This will not likely be pressed, as the tendency of prices is downments to Quebec by the time this appears in print. The ments to Quebec by the time this appears in print. There is no ice to speak of between Quebec and C, B. well as where these exist." The Government may accede to this demand, or make Reliaf Societies as well as where these exist. cede to this demand, or make Relief Societies compulsory at even third-rate collieries. "Miners' Boards," to be composed of miners and not officials." The discussion on this point was interesting: the M. P. Ps. will likely after this be a little more careful in the selection of the appointees. "Drawing of pillars by electricity." Power was given the Deputy Inspector to forbid their use where and when he thought the use of them might be attended with danger. "Riding rakes when needed." This refers to conveyance from the bottom to the working places. The operators agreed to bottom to the working places. Ine operators agreed to make every reasonable effort to accommodate the workmen. "Eight hour day." The Government took this question to avizandum, as the Scottish sheriffs say. "Weekly pay." This question was deferred. "Boiler Inspection." The Government urged that boilers were now being inspected by the Insurance Co., and that this inspection was likely more effective than any they could promote. The delegates reported that the inspection was inadequate and perfunctory; that in some cases the inspection consisted in nothing more than a few questions being put to the fireman. Action deferred. The delegation spent some time with the Commissioner and D. C. of Mines, and the law clerk, in discussing the proposed amendments to the consolidated Regulation of Mines Act. The delegation endorsed the idea that the mine examiner, in making his rounds, shall always be accompanied by some other employee. The Government and the delegation parted good friends

Closed lights were put in the new No. 4 colliery of the N. S. S. & C. Co. at Sydney Mines on the 15th. No gas has ever been found in the mine, but it was thought this was the best time to put in the closed lights, before a large number of men were employed, who might make a fuss.

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Synopsis of Canadian North-West.

Homestead Regulations.

A NY even numbered section of Dominion Lands in Manitoba or the Northwast Provinces, accepting is and 20, not reserved, may be homesteaded by
a self-revinces accepting is and 20, not reserved, may be homesteaded
as the self-review of the s

by the father, mother, son, daughter, browner or saster of an intending nome steader. We have a support of the property of the

When an entry is cancelled subsequent to mutation or case-when the period of the calculation will be entitled to prior right of entry, proceedings, the applicant for cancellation must state in what particulars, the homestead is in default.

A homesteader whose entry is not the subject of cancellation proceedings and, subject to the approval of Department, Fulliphia, but to no one else, on filling declaration of abandonment. Here, if eligible, but to no one else, on filling declaration of abandonment. The homesteader is required to perform the homestead the subject of the control of th

(b) A homesteader intending to pasform his resident duties in accordance with the above while living with layersts or on farming land owned by himself with the property of the state of such intention. In the state of the st

W. W. CORY,

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

Cost. Coal lands may be purchased at \$10 per acre for soft coal and \$20 for antifractic. Not more than \$20 acres can be acquired by one individual or extended to the gross output. To ten cents per not 200 pounds shall be colcited on the gross output. To ten cents per to not 200 pounds shall be colcited on the gross output. To ten cents of the granted upon payment in advance of the per animo for an individual, and from \$50 to \$100 per animo for a consistent of the granted per cents. The cents of the granted per cents

1907 feet.

The fee for recording a claim is \$5.

Al least \$100 must be expended on the claim each year or paid to the minface feet of the feet
for may, upon having a survey made, and upon complying with other requirements, purchase the land at \$1 per acre.

The patent provides for the payment of a royalty of \$1.2 per cent on the

1500 feet.

sales.
Placer mining claims generally are 100 feet square; entry fee \$5 renew-

Pincer mining claims generally are 100 rees equary, was able yearly, and the yearly, the miner may obtain two leases to dredge for gold of five miles a che for a term of twenty years, remewable at the discretion of the Minister of the Interior, which was a dredge in operation within one season from the date of the peace of the miner, the peace of the pea

W. W. CORY, Deputy of the Minister of the Interior.

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