would carthe for pound blacks p. 14.

# MARITIME MINING RECORD.

APRIL 10, 1918

# OUTPUT: 5,000,000 tons yearly.

Miners and Shippers of the Celebrated "DOMINION" Steam and Gas Coal

and Coal for Household Use from the well known seams 'Phalen,' 'Harbour,' 'Victoria' and Hub..' "SPRINCHILL" Coal for Steam, Gas, and Household use.

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Superior Dir.	1	NORTH BOUNI
436	STATIONS.	
A. M.		437.
10 40	POINT TUPPER.	P. M.
10 35	INVERNMES JUOT.	3 40
10 29	PORT HAWKESBURY	3 45 3 50
10 07 9 57	PORT HASTINGS	4.08
9 44	TROY.	4 08 4 20
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8 90 -	PORT HOOD	5 28 5 30
7 (8)	GLENCOE MABOU	5 46
7 40	GLENDYRE	6 11
7 12	BLACK BINNE	6 23
6.55	STRATITION	6 45
A. M.	INVERNESS	7 06
		P. M.

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Change of Time

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Dep. Montreal Arr. Halifax

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### Concerning the 'Record'

The first Number of the 'Trades Journal' was issued the first Wednesday of 1880. while taking a deep interest in the Coal Trade, was more particularly interested in matters affecting the welfare of those employed in the coal mines of the Province. Its aim was to secure for these better working conditions, and to give them the standing in the community to which, it thought, they were entitled. That much good was accomplished along these and kindred lines is acknowledged by all able to make comparison between conditions as they existed in 1880 and as they exist now.

In 1898 the name was changed to the Maritime Mining Record, in order to express more distinctly the place it was intended to occupy. Since then, till now, its pages have been devoted chiefly to coal mining, which is the staple industry in Nova Scotia. With the growth of the trade it has grown in influence, and is now considered the one reliable authority on all matters connected with the coal trade.

# MARIFIME MINING RECORD

Vol. 20

Stellarton, N. S., April 10th., 1918

#### ERECTION OF THE QUEBEC BRIDGE

The project of building a bridge over the St. Lawrence River at Quebec first assumed definite a low staging, floating it on barges to the site and form in 1898, when tenders were called for on spec- raising it to its final position with specially designifications issued by the Quebec Bridge & Railway ed tackle. Company, which finally resulted in awarding the contract to M. P. Davis & Sons for the substructure, type. It has four tackles of 60 tons capacity mountand to the Phoenix Bridge Company for the super- ed on electric cranes which travelled on top and structure. On August 19, 1907, the entire super- were high enough to place the highest and heaviest structure which had been erected on the south side members. It had four 1-ton tackles on four booms collapsed, involving the complete abandonment of on each corner, eight 5-ton tackles mounted on ganthe enterprise.

specifications of a new bridge. This board was com- controlled from a deck immediately over the railposed of Mr. H. E. Vautelet, Mem. Can. Soc. C. E., way tracks, enabling the operator to see what was chairman; Mr. Fitzmaurice, C. M. C., of London, being done at all times. England, and Mr. Ralph Modjeski, Mem. Am. Soc.

designs if they so desired.

accepted. relieve the contractor from such responsibility."

The bridging company immediately began to the river. organize to carry out the work, and built a shop to fabricate the structure amounting to 66,000 tons of pany announced that they would take immediate steel for the bridge and 10,000 tons for shop and steps to replace the span and that they proposed erection purposes. This plant represented an out-using the same method over again, and in spite of lay of \$1,300,000 and included cranes of 190 tons the difficulties encountered were ready to begin capacity and many machines of unusual type. At erection on the anniversary of the day it was begun the same time that the drawings for the bridge were in 1916. On September 20, 1917, the last lift was being made the method of erection was being de- made and the last coupling made, and on October veloped in detail, as it was necessary to know how 17 the first locomotive and cars passed over the every member was to be handled in the field before bridge. the drawings could be completed. Drawings were also nade for shipping many of the larger members, and special cars built to carry them. different methods of erecting the suspended span Beach. were considered: First, it could be cantilevered out to the centre; second, build a light structure to be floated in and raised to position and used as a stage ute that the bungalow had no elevator is it-just ing to erect the span on; third, to float it in a high fancy!"-Boston Transcript.

enough position to connect it to the cantilevers, letting the supporting barges float out as the tide subsided, and lastly, the method used of erecting it on

The traveller used in erection was of original trys which were placed on the top of the electric In August, 1908, the Dominion Government ap- cranes and an elevator of 3 tons capacity for going pointed a board of engineers to prepare plans and to the top. The whole was electrically operated,

The staging of the anchor arm was entirely of C. E. This board, toward the end of 1909, develop- steel and built on separate foundations. During the ed what was known as the "official design" and ten- season of 1915, the two anchor arms were completders were called for its construction, the tenderers ed and preparations were made for the erection of being given the privilege of submitting their own the suspended span which was fabricated at Sillery, and in the meantime six steel scows, manufactured Four tenders were received, and eventually the at Sorel, arrived on the site, and everything was design and tender of the St. Lawrence Bridge Com- ready with the lifting apparatus in place on the pany, an amalgamation of the Dominion Bridge cantilevers, scows in place under the span, for the Company and the Canadian Bridge Company, were operation of lifting the huge span into place on September 11th, 1916. The place selected for the erec-A prominent clause of the contract was as fol-tion of the centre span was a comparatively level "The contractor will be required to guaran- place near Sillery. The site was so situated that tee the satisfactory erection and completion of the there was no water under the span at low tide, and bridge, and it is to be expressly understood that he 15 feet under it at high tide. The scows had valves undertakes the entire responsibility not only for the fitted to the bottom and when the tide rose the materials and construction of the bridge, but also span was lifted from its supports and towed into the for the design, calculations, plans and specifications stream and to the bridge site. Six lifts had been and for the sufficiency of the bridge for the loads taken and the critical stage of the operation considtherein specified, and the enforcement of any part or ered past, when there was a loud report at the all parts of the specifications shall not in any way southeast corner which suddenly dropped from its support and the whole span was precipitated into

On the same day the St. Lawrence Bridge Com-

Mrs. Nuritch-Yes, we were going to leave our Four flat for the summer and take a bungalow at Benton

Mr. Kawler-What stopped you?

Mrs. Nuritch-We discovered at the last min-

#### MARITIME MINING RECORD.

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

THE RECORD is devoted to the Mining -particularly Coal Mining -Industries of the Maritime Provinces

Advertising Rates, which are moderate, may be had on application

Subscription \$1.00 a Year. -- Single copies 5 cents

#### R. DRUMMOND, PUBLISHER.

STELLARTON, N S.

April 10, 1918

#### GOVERNMENT OWNERSHIP.

following extract. Perhaps in asking that the ied-Port Hood to Chimney Corner, would involve the expenditure of a very large sum of money. In the event of the federal government acquiring the Mines, the Record presumes the payment of royalty Regulation Act, and would have to be worked as the Certificates of Competency under this Act, one or Department of Mines directed. The Record is not more competent persons to be called Special Example of Mines directed. rights not now possessed by the operators of our Coal Mines We think, with Greetings, that the

Coming right home, touching this vital issue, two miles in length, -is now a feeder to, and con-Point Tupper, that it taps the Coal Mines at I Hood, Mabou and Inverness, and is within a few miles of large deposits of Coal at St. Rose, to which point this railway can be easily extended, that all the coal areas in question contain immense deposits of coal, and are practically in their virgin state. That under the very grave conditions relative the acquiring of the railway above referred to and the coal mines adjacent thereto by the Government of the Dominion, will be in the public interest and the outlay therefor amply justified.

## CORONERS AND MINING FATALITIES

The assurance is given that in due time there shall be reaping if there be no fainting. And it is true at least at times, if one keeps pegging away, he may be gratified with the results. The Record has fatalities have been conducted, and has advocated a

of Assembly consolidating the Coal Mines Regulation Act, contains a lengthy amendment which must be satisfactory to all who desire that a thorough investigation should follow every mining fatality, Were the Record to follow the course of some well known newspapers it might claim some credit for the introduction of the amendment. We are content to say that the similarity of the views of the Commissioner of Mines and the Record, is a move of gratifying coincidence. There is no necessity for restating the reasons why the old mode of holding inquiries was unsatisfactory, beyond saying that inquests on the whole, were very disappointing in failing to make plain why the accident occurred, and in placing the responsibility for its occurrence. It is possible that there may be minor changes made in one or two sections of the amendment. These effected and the Record will be entirely satisfied that the change from Coroners to Special Examiners

Special Examiners To Replace Coroners...

50. Where any accident occurs in any mine from any cause resulting in the loss of life, no Coroner of the County in which the accident occurs, shall hold an inquest touching the death of such person, but the following provisions shall have

(1) The Governor-in-Council shall appoint in each of the districts into which the Province is div-Chapter 12, Revised Statutes, 1900, "Of Enquiries privileges of a Coroner, except as in this Act other

(2). Such Special Examiners shall hold office during pleasure.

son or persons possessing special knowledge to act

was or was not preventable, as to whether any neglect either caused or contributed to the exploany General or Special Rules and shall send to the Inspector a copy of his findings in these respects.

aminer is of the opinion that death was caused by explosion or accident and resulted from culpable negligence or that there is reasonable ground for suspecting the same, he shall forthwith file a copy of his report with the Clerk of the Crown for the County in which the accident occurred, and transdrastic change. The bill introduced into the House with a notice stating that in his opinion it is expedient that a further enquiry shall be held, respect- est development of any coal areas available.

enquiry on the body of any person whose death has to enforce any regulations that may from time to been caused by an explosion or accident, of which time be prescribed by him. notice is required by this Act to be given to the mediately notify the Deputy Inspector for the dispoint a Local Fuel Commissioner or Board of Fuel Commissioner and Deputy Inspector, he shall imtrict, of his intention to hold such enquiry and fix a Commissioners with such organization as may be time and place therefor. Where the Deputy In-deemed necessary. Any expenses so incurred shall spector is unable to attend such enquiry at the time be borne by the municipality. fixed, the Special Examiner shall adjourn such enquiry whenever practicable to enable the Inspector, ers in any municipality addressed to the Fuel Ad-Deputy Inspector or some other properly qualified ministrator preferring complaint against any Fuel person appointed by the Commissioner to be pre-Commission, the said Fuel Administrator shall sent at the enquiry.

before holding the adjourned enquiry, shall send to call upon the municipality to remove such officer. the district, notice in writing of the time and place be:-

of holding such adjourned enquiry,

other person so appointed or a person appointed by of fuel scarcity within such municipality. the workmen of the mine at which the accident occurred, shall be at liberty at any such enquiry to ex- tem of controlling retail coal deliveries through oramine any wite sees, subject nevertheless to the ders on dealers within the municipality issued by

the provisions of this Section shall be paid for every in enforcing such regulations as may from time to enquiry into the cause of any accident in any mine time be made by the Fuel Controller for Canada.

Special Examiner in connection with any enquiry cial will have power as to the supply to which the

whether there was any defect in or about the mine opening a mine on an unworked area? in which the accident occurred. The Special Examiner may fix a special fee to be paid such expert wit-

incurred shall be borne by each Province.

such Province.

(e) To promote within the Province the great-

(f) Generally to assist and advise the Fuel Con-(6). When such Special Examiner holds an troller for Canada in the discharge of his duties and

Muncipal.

(4) The Council of any municipality may ap-

(5) On the petition of two-thirds of the dealforthwith cause an investigation to be made into the (7). The Special Examiner, at least four days said complaint and if sufficient cause be shown, may

(6) The duties of Fuel Commissioners shall

To co-ordinate the work of fuel dealers in (8). The Inspector, Deputy Inspector, or such apportioning and delivering coal during any period

(c) Generally to assist the Fuel Administrator

remuneration and expenses incurred by the said commissioner will likely be appointed, and this offiand report shall be paid out of the Provincial Treas- several dealers in districts outside of the localities where there are Coal Mines, are entitled Just how (11). Such Special Examiners for the purpose the Provincial Board of Administration is to proof making an enquiry shall have the power to sum- mote the development of coal areas is not known. mon any witnesses who may be able to give expert Will the Board be in a position to advance the nectestimony as to the cause of the accident or as to essary capital to a person or persons desirous of

## " Rubs by Rambler. =

The Fuel Controller, Mr. McGrath, is to be of Trade and Commerce issues new orders with re- commended for his willingness to be advised. It ference to the importation, production and distribu- was suggested to him that the first great duty was tion of fuel. The following form parts of the new to get the coal, and afterwards to arrange as to the C. G. R. was insufficient to incite the operators (2) The Government of each of the Provinces to enthusiaem. The Railway people are not to have it all their own way. They are not to be more favtrator or Board of Administrators for such province ored than the ordinary consumer, but must pay the and may create such central provincial organiza- same price demanded of him. The Controller has tion as may be deemed necessary. Any expense so sanctioned, or rather has fixed the price of coal at shall be borne by each Province. an advance of \$1.60 from prices prevailing till. The duties of Fuel Administrators shall March. There has been loud screaming against the increase in price, but it had to come. It is most To supervise the distribution of all coal and inconsistent for those newspapers, which have been other fuel imported into o, made available within demanding increased wages for mine workers, to make outery against increased price of coal. Every increase in wages, every increased cost

of materials, every assessment for Compensation THE AMENDING AND CONSOLIDATING OF Act, every additional cost entailed upon the carrying out of new laws, such as weekly pays, etc., etc., must come out of the pockets of the consumers, and the sooner they and the press realize this the better. in the bill to consolidate the C. M. R. Act introduced gainers, if they take advantage of the new maximum

toria has been telling the federal parliament its tions, duty in respect to coal production. According to a (c) "Colliery" means a mine, and includes two vised the government to deal directly with the men ownership. who produced the coal. I wonder what he meant? In asking that more coal be produced are the opera- means something contrary to the act of 1913. This tors to be overlooked, completely ignored? This is interpretation ought to be struck out. selves accordingly. If there is a scarcity of coal tionary for the meaning of the word. in any district let them instead of censuring the officoal, which could be converted into coke, and of the explosives used in breaking coal, and who is briquettes. Coal is now being converted into coke, possessed of a Certificate of Competency as such, but there is no reason that it should be converted issued under this Act. into briquettes. These only, are made from unsaleable coal, that is, from coal for which there is no sufficient demand. Slack coai. It would be a foolish tion if any mine is worked without there being such thing to make briquettes so long as slack coal can a manager for the mine as is required by the followall readily be disposed of either by itself or incor- ing sub-sections, the owner and agent shall be guilporated in run of mine. But is not D. D., a "little" ty of an offence against this Act. off when he declares that N. S. Coal can be converted into electricity. That is something new, and ager of a mine by reason of death, resignation or should open the eyes of Nova Scotians to the fact otherwise ceases to be manager, the mine may be that the province has a coal, the like of which has worked for a period not exceeding fourteen days, not yet been discovered in any part of the globe, until a new manager is appointed, if in the mean-We know provincial coal can be employed in the time a competent person holding a certificate as production of electricity; until now few were aware manager or underground manager under this Act it could produce the genuine article. D. D. exag- is temporarily appointed to perform the duties and gerates a little in saying the coal supply is inex- exercise the powers of a manager haustible. That cannot be said of any County producing coal Mr. Bob Butts, D. D.'s South C. B. the control of a manager, daily personal supervision neighbor, could not understand what members shall be exercised by the manager, and, where an meant in talking of a coal scarcity. He asked mem- underground manager has been appointed by the bers to explain the reason for the closing of a num-owner or agent of the mine, also by that underber of mines in N. S., in recent years? The explan- ground manager. ation is so simple that no member explained. In the past three and a half years, mines have not been of the manager or underground manager on leave closed, indeed a number of new mines have been or from sickness or any other temporary cause, such opened. When the mines were closed down, there daily personal supervision as is required by this secwas not the present active demand for coal. In- tion cannot be exercised, arrangements shall be

### THE COAL MINES REGULATION ACT.

Below will be found some of the amendments The increase allowed by Mr. McGrath, it is declar- into the House of Assembly by the Hon. Commised, is far too great. How do those who make the sioner of Mines. The interpretations would take up assertion knew? They cannot tell. Mr. McGrath unnecessary space. They are now given in alphacan. Before arranging for increase in price, he had betical progression instead of in regular sequence of a thorough and independent audit made of the coal position from Manager down. After Agent, the companies books, and that investigation revealed highest official comes boy. If the Merchant Shipthe fact that the companies were losing by selling ping Act has interpretations, then Cabin Boy will at the price formerly fixed. Of course the smalled come first and the Cabin Boy will at the price formerly fixed. Of course the smaller come first and the Captain come next, wedged in companies, who have shallow mines, will be great between him and the cook. Interpretations in the British Columbia Act are given in Alphabetical order, but then in that Act there are interpretations we never heard of, and dont want to hear of, in Nova The member for North Cape Breton and Vic- Scotia. We give one or two of the new interpreta-

despatch from Ottawa, to a Halifax paper, he ad- or more adjacent mines under the same control and

a new phase of the vexed subject, and the news- Colliery is not used in the largest coal producing papers will please take notice and govern them- country in the world. Look at an unabridged dic-

cials, demand of the men why the production is not pointed to inspect the working places of a mine and (k). "Mine Examiner" means a person apgreater. If the men say they are working to their approaches thereto, the air ways, road ways and limit, and acknowledge that all the coal they cut is other accessible parts of a mine; and to see that being taken from them, then the censurer must get such are safe before a shift is allowed to enter such to work and procure more labor. D. D. is right in workings or other parts of the mine; and to examsaying that Nova Scotia has magnificent deposits of ine as to the safety of using and to supervise the use

#### Managers.

(3). Subject to the next succeeding sub-sec-

(4). Where the person appointed to be man-

6. (1) In every mine required to be under

(2) In cases where, on account of the absence deed there was difficulty in making sales, and there made for the duties of the manager or underground

C utinued on page 11.

### AROUND THE COLLIERIES

On his last visit to Halifax, Fuel Controller Mc-Grath got along very well without the promptings of the President of the T. & L. C.

The coal heaps at the collieries this winter are very small and nothing like they used to be. Small as they are they show that the winter time in Cape Breton will always bring banking conditions to the larger mines.

many years, has once more sprang into active life. It is said that the population is now rive hundred men have been brought in. and that the village is no longer one of rambling huts, but of modern habitations.

the Cape Breton collieries over the numerous collec- will now be discarded. This will give a better suptions taken at the offices of the different coal com- ply of air power for the coal cutting machines in panies, caused by the cessation of the relief funds these two collieries. Good institutions are seldom appreciated until they are out of business. Then and then only are their better parts noted and lamented, because gone.

It is reported that pressure may be brought to bear upon the Dominion Coal Co., to either lease to bourg electrically equipped before long. The elecaccount, one or more of the areas held by the Company to the south of Springhill. At the present time many have a desire to possess themselves of coal areas. If a Company having several areas is forced to lease, then a stipulation should be that there will be a stated production when normal times come

The Dominion Coal Company recognizing the thing rash. advantages of electricity over steam and other motive powers, and with a view to greater conscrvation tricity on for the summer months. A central electric power station is to be built near to the railway culty of electric breakdown encountered this winter. right and privilege.

famous as money, as well as coal getters.

It is claimed that the Joggins has now a population of two thousand people, and that soon a movement will be made to have the town incorporated. Much of the progress of the town, in many directions of late, is due to the progressive policy of the Maritime Coal Ry. and Power Co.

With nearly all the men of influence working to increase the coal output, it shows but a very tardy response to the efforts made. However, as the Chignectos which was a deserted village for amount of labor increases there should be a very noted improvement. Already quite a number of

The rope of the new haulage system of Dom. No. 2 and No. 9, has been put on, and a trial made There has been considerable grumbling around with good results. The compressed air locomotives

Branch electric lines are to be run from Dom. No. 2, to the new shaft to be put down for the men of Dom. No. 1, and also to Dom. No. 6. It would not surprise some of us to see the Sydney and Louisthose agreeing to develop, or to work on its own tric motor has a tremendous advantage over the steam locomotive especially in the winter time.

> And yet there are unsettled questions around some of the coal mines of the province. Sydney Mines and other parts have shown a great deal of patience and have waited long but they are beginning to say things. It is to be hoped, however, that they will not now spoil a good name by doing any-

Premier Murray is not going to allow the Fedof coal, have a big programme of installation of elec- eral Government to have exclusive use of the persuasive tongue of Mr. J. C. Watters The premier, it is alleged, sent Watters down to Cape Breton in station, New Waterford. From this center, branch an effort to keep the Steel Workers of the two Sydlines will be run to the different points where the neys from doing anything rash. The Minister of electric juice is required. This will ensure better Labor may feel a trifle out at this encroachment on service and will help to overcome much of the diffi- what in the past was considered a wholly federal

T. H. Harrington, et al., have secured the The many old friends of Mr. C. A. Meiseuer, of "areas" from the Sydney Coal Coy., near North 45 Lemox St., Brooklyn, formerly of Londonderry Sydney. The area, while two and a half miles long, and Sydney, N. S., will be interested in knowing is not deep, only some 400 feet. If the promoters that his three sons are doing their bit. The Record have money, and believe there will be a big demand has no doubt that the three boys will do valiantly for coal for two or three years, they could make a for their country and do credit to their parents. fine thing of it by driving a level the full length of Clarence Edward, has enlisted in the 27th Enginthe area, and then retreat, taking every part of the eers, and is now a member of Company C., in traincoal with them. There is no overlying seam. T. J. ing at Camp Meede, Admiral, Md. He is a grad-Brown is consulting engineer, at least, so it is de-uate of the Brooklyn Polytechnic Lustitute, and in clared. Names beginning with B., are becoming 1914 graduated from Columbia University as a Mining Engineer. While there, he was Chairman of

the Student Board and Manager of the Track Team. He was employed by the Inspiration Consolidated manager, as the case may be, in respect of daily Copper Company, of Miami, Arizona, and became supervision being performed. a mine foreman. He is a member of the Sons of the Revolution and of Phi Kappa Pai Fraternity. He derground manager, appointed in writing by the has two brothers in the Army in France: Harold owner or agent; the Ambulance Corps, and James A., who left for ager in the case of a mine for which a separate the Ambulance Corps.

Counties in the province. Our acquaintance with duties he is performing. Frank began long years ago in the misty past, and the friendship began then has been continued un- or non-compliance with the provisions of this secbroken. Frank held many important positions in tion, the mine shall be deemed to be not managed in several mining districts, and also was manager at conformity with this Act. Torbrook shortly before iron mining in that region ceased. Wherever his bent or his duty led him, Mr. Burrows was highly esteemed. It is common now- certificates of Competency under this Act, that is a-days to use extravagant language in speaking of to say: the dead. The Record is content to say that we always liked Frank, and the longer we knew him the better we liked him.

The deceased left the office of the Nova Scotia Engineers-Steel and Coal Co., Wabana, at ten minutes to twelve on the 2nd March. His nose was bleeding ness of applicants and recommending the granting slightly when he left, and after arriving at the house of Certificates of Competency under this Act, the it became worse. When the Doctor arrived he said Commissioner shall appoint a Board of Examiners became unconscious at twenty five after twelve and passed away in that condition at 5 p.m.. Good-bye, Frank, till we meet again.

Under an arrangement with the Hon. C. C. Ballantyne, Minister of Marine, the Dominion Iron & Steel Corporation will construct a plant at Sydney, Cape Breton, for the rolling of steel plates for shipbuilding purposes. The plant will be ready in accordance with regulations made by the Board, ernment orders, and will also be open to execute ordinary commercial orders. The arrangement is Commissioner determines, make to him a report of part of the Government's programme to meet the its proceedings and such other matters as may by world-wide shortage in vessels and to assist the the Commissioners be required. Canadian shipbuilding industry. The contract with the Government calls for 250,000 tons of ships'

Large piles of coal in storage are often in serious danger of spontaneous combustion. The height, subject of the full age of 21 years and has had at order to make them accessible for inspection and segregation to provide for their proper draining, cant, must in addition, be the holder of a Certificate and to avoid the storage in them of different kinds of Competency as an underground manager and sulphur. The piles should be ventilated with horizontal flues through the lower parts and should that the applicant, must in a dition be the holder of

the front in July, 1917, has finished his training as underground manager is required by this Act to be aviator, and has been awarded his commission as appointed, by a person not under the age of twentyfive years and holding a certificate as an overman, The Record was grieved to receive a few days duties of a manager or underground manager ago intelligence of the death of our old friend, Frank whether under this Act or under the last preceding Burrows, and this will be painful news to very section, shall have the same responsibility and shall many in Cumberland, Pictou, Amapolis and other be subject to the same liability as the person whose

(3) If in any mine there is a contravention of,

Certificates of Competency.

7. There shall be the following descriptions of

Manager.

Underground Manager.

First, Second and Third Class Stationary

(a) the Inspector of Mines; (b) two Mine Managers,

(c) two experienced Coal Miners

(d) two Mechanical Engineers holding First Class Certificates of Competency,

(2) The members of said Board shall hold office during the pleasure of the Commissioner.

(3) The procedure of the Board shall be in subject to the approval of the Commissioner.

10. (2) The Board shall, subject to the applates, over a period of five years, with a minimum the qualifications of applicants for Certificates of 50,000 tons a year. The cost of the mill is esti
Competency under this Act. Such regulations shall amongst other things provide:-

(a) If a candidate for manager, underground and sometimes not more than 12 ft.. Care should mine, one year of which must have been at the working face;

have served one year as such;

a Certificate of Competency as an overman and have

served one year as such

(d) if a candidate for overman that the applicant, must in addition, be the holder of a Certificate mine, fire, blow, loosen or extract coal by hand, of Competency as a mine examiner and have served machinery or otherwise in any mine who is not in one year as such;

(e) if a candidate for First Class certificate as miner.

Stationary Engineer that the applicant; (1) is at least twenty-four years of age;

and has served one year at mechanical work on mine addition has been employed in a mine for at least machinery, and has for one year been in charge of one year as a coal miner. a hoisting or haulage engine, or for two years in last above specified, or;

and has been Engineer in charge of a steam plant employment by means of a false or fraudulent certifor twelve months, or has served at mechanical ficate, shall be guilty of an offence against this Act.

work in a machine shop for three years.

cate, that the applicant;

(1) is at least twenty-one years of age; (2) is the holder of a Third Class certificate able of taking charge of a working face under this

and has been employed as a Third Class Engineer Act for not less than one year.

that the applicant;

(1) is the holder of a license as a fireman, or has served not less than six months as a fireman; or

(2) has served at least twelve months as En- qualified. gineer, Assistant Engineer, Pumpman, Oiler or Locomotive Engineer; or,

(3) has served at least 18 months at mechani- of Examiners, and shall consist of the following per-

cal work in a machine shop.

(4) is not less than 18 years of age.

If a candidate for Mine Examiner, that the applicant is a British subject of the full age of the Manager; 21 years, has had at least three years experience in miner, and has a practical knowledge of gas, explo- with two alternatives, to be nominated by the vote sives, ventilation and timbering;

Board, as a part of the examination, of viva voce office for two years to begin on the first day of Jan-(i) for the holding, if deemed advisable by the examniations in the several districts established by uary, in the year in which their appointment is made this Act, with a view to ascertaining the practical or until their successors are appointed. knowledge of applicants for certificates in each dis- (4) The Commissioner may make regulatrict being tested with reference to the local mining tions for the guidance of Local Boards of Examinconditions, and requiring at least one of the Exam- ers in the performance of their duties, and may preiners in every viva voce examnaition to be a person scribe the times and places at which the examinapossessing practical acquaintance with those conditions, shall be held.

part in the examination of the papers, or in the viva the name, address and place of employment, if any, voce examination of any applicant for a certificate, of every candidate to whom a Certificate of Competwhom he has in any way trained or instructed in ency is granted under this section. any of the subjects of the examination.

may be accepted should the Board consider the oaths and affirmations. same of equal value to the experience otherwise re-

candidate who is duly reported to the Board to have penalty of not less than twenty nor more than fifty satisfactorily passed the requisite examination and dollars. to have given satisfactory evidence of his sobriety, experience, ability and general good conduct, such a Certificate of Competency as the case requires.

Miners.

18. No person shall be permitted to cut, shear, possession of a certificate of Competency as a coal

19. (1) No person shall be given charge of a working fee in a mine who is not in possession of (2) is the holder of a Second Class certificate, a Certificate of Competency as a coal miner and in

(2) Every Owner, Agent or Manager of any charge of a colliery engine other than the engine mine who gives charge of a working face to any person contrary to the provisions of this section, and (3) is the holder of a Second Class certificate every person who obtains or seeks to obtain such

(3) In the case of the introduction of any coal (f) If a candidate for a Second Class Certifi- cutting machine not in use in the Province before the 11th day of March, 1898, any person may work such machine, if he is accompanied by a person cap-

(1) The Commissioner may appoint (g) If a candidate for a Third Class certificate, Boards for granting Certificates of Competency to coal miners in such places as he deems expedient, who shall examine candidates for such certificates, and grant such certificates to persons found duly

Such Boards shall consist of not less than three persons who shall be called the Local Board

sons:-

(a) one, appointed by the Commissioner; (b) one, with two alternatives, appointed by

(c) one person who is a practical coal miner and about the practical working of a coal mine, is and actively engaged in coal mining in Nova Scotia, the holder of a Certificate of Competency as a coal and who holds a Certificate of Competency as such,

(3) The members of such Boards shall hold

(5) Such Boards shall report in writing to the (3) Any person conducting the examination Commissioner at the times and in the manner preunder the next preceding section shall not take any scribed in the regulations, after each examination,

(6) Members of such Boards are for the pur-(4) Experience had outside of the Province poses of the examination authorized to administer

21. Every person who gives any false certificate of employment, or other certificate to be used (5) The Commissioner shall deliver to every under the provisions of this Act, shall be liable to a

Mine Examiners.

23. (1) In every mine there shall be appoint ed by the Manager, in writing, one or more competent persons who hold a Certificate of Compet- settled in manner provided for settling disputes unency as a Mine Examiner under this Act, whose der Section 34 of this Act.

such other duties as to the presence of gas, ventila-Act and by any Special Rules.

charge as required by this Act and by any Special of a type for the time being approved.

(2) A Mine Examiner shall be required to de- to be settled in the manner hereinbeft re provided, vote his whole time to such duties as aforesaid, but the Owner shall, pending the settlement of the ques-

(a) any mine in which the total number of persons employed underground at one time does not exceed thirty, or,

(b) any mine exempted by the Deputy In

(3) No person not employed as a Mine Fxaminer or Shot-firer in any mine previously to the first day of August, 1918, shall be employed or per- order retain out of the wages or salary of any such mitted to act as a Mine Examiner or Shot-firer, un- employee any sums due by such employee in respect less he is possessed of a Certificate of Competency tor's fees, or church or society dues. as such, under this Act. Provided, however, that all to powder, coal, oil, rent, check-weigher's fees, docholders of a certificate of Mine Examiner or Shot- ed in the foregoing sub section, the changing of the of Competency as Mine Examiner by the Commis- makes it nigh impossible to arrive at what the subsioner upon the Manager of the mine in which such section now means. Payments to a doctor should, Mine Examiner or Shot-firer is employed, filing a we believe, be compulsory, but where there are certificate with the Commissioner that such Mine three doctors, which? We are not so sure that pay-Examiner or Shot-firer is so employed in the mine ments to a church should be compulsory for a as such, is a British subject, and has written or is majority of the churches these days glory in being

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Examiner shall not be of such a size as to prevent W. is included. If the clause passes as it stands,

(3) The Owner, Agent or Manager shall before the 20th day of each of the months of January, April, July and October of each year furnish to the ers supports are partly embedded in the ground they

part of a mine where, on account of the risk of ex- low the ground level by sleeves filled with common would be dangerous to life, and if the owner of a mine, on being required by "e Deputy Inspector not to use, or to desist from using, electricity in the mine or any part thereof, for the reasons aforesaid, corporated, with a capital of \$20,000, to engage in refuses to do so, the question as to the application all business allied to the cement industry. of this Section to the mine or part thereof shall be head office is in Quebec City.

(a) to fire all shots in the mine, and per- flammable gas is found the electric current shall at (2) If at any time in any place in the mine inform all other duties prescribed by any Special once be cut off from all cables and other electrical (b) to make such inspections and carry on until the place is reported to be clear of gas and perapparatus in that place and shall not be switched on tion, state of roof and sides, as are required by this vided that nothing in this sub-section shall apply to (c) to have the general charge of the safety of long as the conditions prescribed with reference to the mine and the workmen, including the checking the installation and use of such wires and instruand recording of the number of persons under his ments are complied with, nor to any electric lamps

(3) When any question under this Section is there provisions shall not apply in the case of a Mine tion, comply with the requirements of the Deputy Inspector subject to an appeal to the Inspector.

Deputy Inspector.

(3) The Deputy Inspector shall visit every mine within his jurisdiction and every working spector of the district, on account of the special cir- all air courses including examination of stoppings at least once every month.

Payment of Wages.

firer issued by any Board for the examination of word may, in to shall, and that innocent looking workmen and who are now employed as Mine Ex- change makes a wonderful alteration in the readaminers or Shot-firers, shall be granted a Certificate ing and the meaning of the sub-section, and indeed competent to write in the English language a report supported by voluntary contributions. And what is of his examinations in the book kept for that purmeant by "Society dues, Torry Society, Rechabite, e at the mine in which he is employed.

I. O. T., K. of C., K. of P., I. O. F., I. O. O. F., A.

(4) That part of the mine assigned to a Mine F. M., etc., etc? We wouldn't woncer if the A M. him from carrying out in a thorough manner the the Record may make a few comments on the new way of securing the "closed shop."

When vertical timbers like piles, posts, and oth-Commissioner a correct plan or tracing on a scale are likely to fail rapidly by decay at ground level, of not less than 400 feet to an inch of the workings while the timber above and below that point reup to the first day of the months above mentioned. mains sound. It is said that the decay can be great-36. (1) Electricity shall not be used in any longed by enclosing the timbers just above and bely retarded and the life of the structure much pro-

Infusorial Eparth

#### EMINENT ENGINEER PASSES AWAY.

who died on March 23, at his home in Ottawa, aged been able to produce an ideal paving material, and 87, Canada has lost one of her greatest engineers one which is quite impervious to water, yet never and railroad builders. For sixty years the late Sir becomes quite smooth. The nature of the material Collingwood had been actively associated with the is not disclosed; it is presumably some form of building and development of both publicly and pri- kieselpuhr, which consists of minute hollow partivately-owned ailways in this country, and for his cless. On mixing a suitable kieselguhr with an apoutstanding services in connection with the con- propriate bond and making bricks from the mixture struction of government lines he was knighted in and burning to a sufficient high temperature, it 1915. He was born in England and came to Can-should be possible to produce an impervious brick ada as a young man, in 1852. He first secured a which would not wear smooth, but whether such a position on the engineering staff of the Toronto and brick would be sufficiently hard and durable re-Hamilton Railway, staying with this road until mains to be proved. 1856. Having demonstrated his capabilities as an engineer, he was then taken into partnership in the engineering firm of Fleming, Ridout & Schreiber, of Toronto, thus becoming associated with Sir Sandford Fleming. He remained in practice until 1860, when he superintended the construction of the Northern Railway now a part of the northern division of the Grand Trunk-till the year 1863. During the four years following he was engaged in the construction of the Pictou Railway, in Nova Scotia, and then assisted in laying out the Temiscouata section of the Intercolonial Railway. Later he built and became superintending engineer of the Eastern Extension Line, now part of the Intercolonial, and in 1873 was appointed chief engineer and general manager of all government railways in operation. Seven years afterwards Sir Collingwood also was appointed as chief engineer of the C. P. R., succeeding his old partner, Sir Sandford Fleming. He retained his position on the government railways and with the C. P. R. until 1892, when he became chief engineer of the Department of Railways and Canals. Later he was appointed deputy minister of the department, and continued to administer this office until 1905. In that year he became general consulting engineer of the Dominion Government and chief engineer of the western division of the National Transcontinental Railway. Since that time his chief work has been the inspection of the construction of

SLIPPERY PAVING BRICKS.

A study of paving bricks shows that their greatwhich they develop as the result of wear. This is from the German troops on the eastern frontier of so serious as to preclude their use in many places the Ukraine, where they would otherwise be extremely satisfactory.

Various methods have been tried in order to overcome this smoothness, such as grooving the upper surface of the bricks, imprinting a pattern in low relief, and so on, but such devices are clearly only palliative, and are often accompanied by serious drawbacks.

erial which will remain rough under abrasion in decline of casualties-Manchester Guardian.

stead of being polished. The United Mosaic Works of Friedland-Sinzig claim that by the use of a mat-In the person of Sir Collingwood Schreiber, terial the particles of which are hollow, they have

MINERAL EXPORTS TO BRITAIN.

Canada's mines have been working overtime iurnishing metal for the outside world. For the United Kingdom alone, the exports of copper in 1917 totalled 144,613 hundredweight, worth \$1,080,-133, as compared with only 53,855 hundredweight, worth \$403,851, in 1913. Nickel worth \$1,862,796 (124,001 hundredweight) was sent to the United Kingdom, compared with 48,267 hundredweight, valued at 3718,145, in the year before the war. The bulk of Canada's nickel still goes to the United States, and the figures for the fiscal year 1917 were 702,203 hundredweight, worth \$7,062,758.

Some forms of lumber have tended to swell Canada's war exports considerably. In 1917 the Dominion sent 50 per cent. more spruce and other deals to the United Kingdom than in 1913, but the price had so increased that the value of this form of export nearly doubled, being \$8,594,803, as compared with \$4,683,821.

Only 74 horses, worth \$14,400, were exported to the United Kingdom in 1913. By 1916 the number had risen to 21,833, worth \$3,899,822. In 1917 the number dropped again to 9,499, worth \$1,898,820.

A curious feature of the customs report is that records imports of gold bullion from the United Kingdom in 1917, worth \$14,546,131, as compared with only \$98,409 worth in 1916.

More than 250,000 refugees from the regions est disadvantage is the smoothness and slipperyness taken from Russia by Germany are seeking safety

> Baking of white bread and rolls will be discontinued throughout the United States after April

"The war is becoming more and more a mach-What is required is a hard and impervious mar- ine war, and along with the change comes a steady

#### ONTARIO'S EFFORTS TO RELIEVE THE FUEL SITUATION.

(From an Ontario Paper.)

a solution of the problem of fuel shortage. are of the opinion that, while this is a very great problem, it is not altogether the shortage of fuel, Passenger—Who's the swell ye was talkin' to, but also there is involved the question of teaching Jimmie? Newsboy—Aw, him an' me's worked tothe people of the country to economize and conserve gether for years. He's editor o' one o' my papers. shortage and that the war has only aggravated a condition that we would have had to cope with in "I hear the Australians were in Jerusalem on Christany case. Our present condition is only one other mas Day." To which the other replied: "Betcher unpreparedness for the war is our great vindication. The government is taking very active measures to impress upon the people the actual fuel situation, Georgia was much impressed by the thriftiness of and are instituting an educational propaganda by circularizing the whole province and advertising in all the local papers.

In Ontario, owing to our geographical position, wish I had 3 couple more like her." our denser population, and the fact that we have no coal deposits, the situation is more acute than in the other provinces. The Eastern and Western progetting serious," "Doesn't affect me. I've got 120 forward for the abundant supply of coal we have

had to us in the past.

There are two known sources of fuel in On- Sambo? tario-peat and wood, with wood available during the coming winter. Each province has a fuel con- the cookery book told me to take it. De cookery lers have been appointed. The government has chicken, or beg one chicken, or borrow one chicken; granted to municipalities the wood on crown lands, it say "take one chicken." And it don't tell you

The department itself has taken action, and expects to cut and deliver enough wood this summer pects to cut and deriver enough wood this summer to supply fuel for all government institutions. This was seated next a young couple, who were dismeans in some cases a readjustment of some of the cussing the merits of their motor cars. "What working out of the problems as they artse.

The efficiency of manifla rope connections and fastenings in term sof percentages of the tested hastenings in term sof percentages of the tested strength of the new rope has been found by careful A. & W. Mackinlay, experiment to be 90 per cent. for an eye spliced over per cent for a timber hitch, slip knot, or clove hitch, 50 per cent, for square knot, weaver knot, or sheet Rule and Print Special Blank Forms for Mining and bend, and 45 per cent. for a Flemish loop or over- other Industrial Corporations. BLANK BOOKS ruled

There are, approximately, 7,500 parts in the American war truck, which weighs complete just over four tons, and is propelled by a 58 horse-power engine, running at 1,350 revolutions per minute.

According to Les Mouvelles, of Maastricht, Holland another long-range gun, similar to the one already bombarding Paris, passed through Belgium, from Essen, on Monday. The length of the barrel is The Ontario Government is busy working out from 20 to 25 metres, and the calibre from 20 to 25

the shepherds watched their flocks that night."

the mistress of the house, according to Harper's. "That's a hard-workin' wife you've got, Joe," he. "Ye." said Joe, with the utmost gravity, "I

vinces could, with some additional development, pounds of it at nome, replied the snining optimist, look after themselves. The increased tax on the quoted in Judge. "Great Scott, man! How did you United States resources means that we cannot look manage to get it?" "Oh, I married it." pounds of it at home," replied the smiling optimist,

Judge (sternly)-Did you steal that chicken,

the conting winter. Each province has a fuel control-book say, "take one chicken." It don't say buy one and they are to cut this during the coming summer, whose chicken to take; so I took the first chicken I Toronto, Hamilton, Ottawa, and Sudbury have al- could lay my hands on. I followed the directions of

hearing plants in order that wood may be used pro- color is your body?" asked the young man of the fitably and economically. An appropriation of girl at his side, meaning, of course, the body of her motor. "Oh, mine is pink. What is yours?" "Mine," replied the man, "is brown with wide yel-The lesson of the war is self-restance; had we low stripes." This was two much for the old lady, been thrown entirely on our own resources we Rising from the table, she exclaimed: "When young people come to asking each other the color of their bodies at a dinner party it is time I left the room."

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### Synopsis of Coal Mines Regulations.

OAL mining rights of the Dominion, in Manitoba, Saskatchewan and Alberta, the Yukon Territory, the North-West Territories and in a portion of the province of British Columbia, may be leased for a term of twenty-one years, renewal for a further term of 21 years at an annual rental of \$1 an acre. Not more than 2560 acres will be leased to one applicant.

Application for a lease must be made by the applicant in person to the Agent or Sub-Agent of the district in which the rights applied for are situated

In surveyed terriary the land must be described by sections, or legal sub-divisions of sections, and in unsurveyed territory, the tract

segar and divisions or sections, and in unsurveyer territory, the tract-applied for shall be staked out by the applicant himself.

Each application must be accompanied by a fee of \$5 which will be refunded if the 'sights applied for are not available, but not other-wise. A royalty shall be paid on the merchantable output of the mine at the rate of five cents per fon.

The person operating the mine shall furnish the Agent with sworm returns accounting for the full quantity of merchantable coal muned and pay the reyalty thereon. If the coal mining rights are not being operated, such returns should be furnished at least once a year. The lease will include the coal mining rights only, rescinded by Chap. 27 of 4-5 George V. assented to 12th June, 1914.

For full information application should be made to the Secretary of the Department of the Interior, Ottawa, or to any Agent or Sub-Agent of Dominion Lands.

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

N. B-Unauthorized publication of this advertisement will not be paid for,-83575.

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## DEPARTMENT OF MINES.

Hon. Martin Burrell, Minister.

#### Mines Branch.

Recent Publications:

Vol. III, Report on, by W. A. Parks, Ph. D.

The Bituminous Sands of Northern Alberta, Report on, by S. C. Ells, M. E. Peat, lignite, and coal; their value as fuels for the pro-

duction of gas and power in the by-product recovery producer, Report on, by B. F. Haanel, B. Sc. The petroleum and natural gas resources of Canada:

Vols. I & II. by F. G. Clapp, M. A. and others. Electro-plating with cobalt, Report on, by H. T. Kalmus, Ph. U.

The Mines Branch maintains the following laboratories in which investigations are made with a view to

assisting in the developing of the general mining industries of Canada: - Fuel Testing Laboratory, Ore-Dressing Laboratory, Chemical Laboratory, Ceramic Laboratory, Structural Materials Laboratory.

having investigations made in the several laboratories should be addressed to The Director, Mines Branch, Department of Mines, Ottawa.

R. G. McConnell, Deputy Minister.

#### Geological Survey.

Recent Publications:

Building and ornamental stones of Canada, (Quebec), Summary Report of the Geological Survey for the Calendar Year 1916.

MEMOIR 20. Gold fields of Nova Scotia, by Wyat Malcolm.

MEMOIR 44. Clay and shale deposits of New Brunswick, by J. Keele.

MEMOIR 59. Coal fields and coal resources of Canada, by D. B. Dowling.

MEMOIR 60. Arisaig-Antigonish district of Nov. Scotia, by M. Y. Williams.

MEMOIR 78. Wabana iron ore of Newfoundland, by A. O. Hayes.

MAP 63A. Moncton Sheet, Westmorland and Albert Counties.

Application for reports and particulars relative to MAP 150A. Ponhook Lake Sheet, Nova Scotia.

Applications for reports should be addressed to the Director, Geologica Survey, Ottawa.

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