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JULY 8th, 1908

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-LICENSES TO SEARCH-

over five square miles for eighteen months, cost \$30,00; leases for four renewable terms of twenty years each can be selected from them at a cost of \$50,00, and are subject to an annual rental of \$30,00

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The Gold District covers over three thousand square miles, and the deposits of coal iron ore etc., are practically unlimited.

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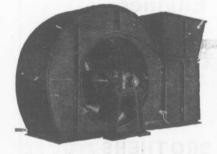
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We invite inquiries, which will have our closest attention.

I. Matheson & Company, Limited, ENGINEERS.

New Glasgow, " " Nova Scotia.



Stellarton, N. S., July 8th. 1908. New Series Vol. 1, No. 1.

#### N. S. MINE EXAMINATIONS, 1908.

several classes of applicants for certificates of compet-ency at the examinations held recently:

on the balance, so that the rooms and pillars will meas-ure 8 and 7 yards respectively?

#### MANAGERS.

SCHOLARSHIP-Time 21/2 hours.

- At what price must an article which cost \$1,20 be marked so that after a reduction of 10 per cent. is made, the merchant may still make a profit of 20 per
- 2. The parallel sides of a tropezoid are 16 and 20 feet, the perpendicular distance between them is 5 ft. at what distance from the longer of the parallel sides Give course from 5 to 1 by calculation. must a line be drawn, to divide the figure into two eqnal parts?
  - 3. Find the cube root of 94818816.
- It it cost \$36.00 to carry 14 loads of stone 54 miles, how much will it cost to carry 18 loads 49 miles?
- 5. The length of a cylindrical piece of timber is 24 feet, and its diameter is 30 inches, what will be its solidity when hewn into its greatest square?
- 6. A does a piece of work in 5 days, B in 6 days, C in 7 days; if they all work and receive \$21,40, how should the money be divi led?
- diameter is 7 icet, so that it may remain at the same mount of ventilation for the mine. Show by sketch level when a pump is emptying at the rate of 1 of a or calculation, reasons for your answer. ton per hour?

#### SURVEYING-Time 21/2 hours.

- 1. You have turned an angle of 30 deg. 17' left, velocity is 300 ft. per minute? where would you find it on the vernier, explaining upper and lower plate of vernier?
- 2. Two drill holes, 1,209 feet apart, are put down to a seam of coal. The depth of the first hole is 200 feet, and that of the second 350 feet. The surface at the second hole is 50 feet higher than that at the first minute, with a pressure of 10 lbs, per square foot, and hole. What is the inclination of the coal seam in in- 18 H. P. Some accident occurs, and to maintain the . ches per yard between the two holes?
- 3. A slope has a pitch of 60 feet in 100 feet, its creased H. P.? length measured on the slope is 1,166 feet. What measurement in inches should be made on the mine map to represent the slope?

- 4. If a balance is driven S 85 deg. E., and the rooms N. 30 deg. E., what should be the horizontal The following are the questions submitted to the distance between the centre line of rooms, measured
  - 5. Suppose you are working to an old mine which is shown on a plan 25 years old, what precautions would you take in regard to the meridian of the survey?
  - 6. Plot and close by calculation the following survey. Scale, 1" = 100'

Stations.		
1 to 2	N. 35° 00 E.	270 ft.
2 to 3	N. 83 30 E.	129 ft.
3 to 4	S. 57 00 E.	222 ft.
4 to 5	S, 34 15 E.	355 ft.

VENTILATION,—Time 3 hours.

Co-efficient .00000001.

- 1. In a coal field 2 miles square, both openings are at the lowest point of the coal property, and the seam rises on a grade of 21 per cent. for a distance of 6000 feet. The depth of strata at the openings is 210 feet., and the surface is perfectly horizontal over the whole extent of the property. The ventilation is produced by a forcing fan 15 ft. in diameter. It is found to be unable to supply the lawful quantity of air at the face of the workings. Therefore, with a view to economy, 7. How fast must the water rise in a well whose what means would you adopt to insure the lawful a-
  - The figure of a section of an airway is a right angled triangle, the base and perpendicular of which are equal, and the length of the hypothenuse is 15 ft. What is the area enclosed by the figure, and what will be the quantity passing along this airway when the
  - 3. Give the various modes of ventilation you are acquainted with. Give the merits or demerits of them
  - 4. There are 50,000 cubic ft. of air passing per same quantity it is necessary to increase the H P. to 28. What is the pressure per square foot with the in-
  - 5. When the air current passing in a mine is livided into two or more equal splits, is the resistance of

the mine thereby diminished or increased, or does it

- 6. In a mine ventilated by three splits of air A, B, and C, A taking 3,000 cubic feet per minute, B taking 2 000 cubic feet per minute, C taking 3,500 cub. Strike, Dip, Synclinal, Anticlinal, Bed, Seam, Vein and ventilation be increased to 77,500 cubic ft. per minute?
- Describe the equivalent oritice of a mine, give inous Coal? formula and state what symbols represent.
- 9. An airway 8 feet by 6 feet, and 6000 feet long. is passing 28,800 cubic feet of air per minute, with 15 horse power. Find value of K. & W. G., give the formula in each case, and work out each calculation in and a mineral vein?
- 10. Draw a sketch of board and pillar workings, for a mine with one hundred and fifty miners, show number of workmen in each district, course of air showing air splits, and crossings, stoppings, doors and regulators. Give size of retnrn air-ways, also quantity of air in each split.

### Modes of Work-Time 3 hours.

- 1. Show a form of timbering in a pitching seam where the coal is soft, and falls to a height greater than that required for the gangway.
- level haulage road? Give reasons.
- 3. Define (a) Creep, (b) Thrust, and dangers arising from same.
- What points must be carefully considered while working contiguous seams?
- 5. State fully your opinions as to the shooting of coal in a dry, dusty mine, generating fire damp, and what precautions you would take to insure the safety
- 6. Give the comparative advantages and disadvantages of the long-wall and bord and pillar methods of working a coal mine, and state under what conditions you would accept either of these methods, and show by sketch how you would carry out each system.
- 7. If you had a number of men in a certain dis- UNDERGROUND MANAGERS AND OVERMEN trict, and fire was to take place in an intake airway, state how you would proceed to rescue the men.
- 8. How would you timber an airway when the bottom is soft and wet?

#### GEOLOGY-Time 1 hour.

- 1. (a) What are the two classes of rocks forming the earth's crust ?
- (b) In which of these classes is the carbonifer- weighs 21 lbs. in air, and 12.25 lbs. in water. ous system ?

- remain the same after splitting as before, assuming the with which you are familiar, stating the principal features of its geological formation, taking into consideration faults which have been encountered.

  - 4. What are the principal constituents of Bitum-
- 8. Two shafts, 6 feet by 6 feet each, 1000 ft. deep, able ingredients in Bituminous Coal, and percentages pass 45,000 cubic feet of air per minute How much of same from general analysis which lessen the value for

  - (b) Metallurgical purposes,
  - (c) Domestic use.
  - 6. What is the difference between a coal seam

#### MECHANICS,-Time 2 hours,

- 1. What course would you pursue if it is found that water is low in a boiler and you do not want to stop fan only for the shortest possible time?
- 2. Why should the steam pipe leading from the boiler to the cylinder be inclined toward the boiler?
- 3. If you are to hoist 200 tons an hour from a depth of 500 feet, what type of engine and boilers would you choose? Verify your choice by figures.
- 4. Show by a sketch how you would set a guide 2. What per cent. grade would you have on main pulley on a curve on a slope to keep the rope in the
  - Explain the advantages and disadvantages of the use of compressed air in mining operations.
    - 6. Explain the principle of the siphon.
- 7. Water is running into the mine at the rate of 500 gal, per minute. Depth of mine 600 feet. What horse-power would it require to keep the water out? of workmen, and produce the maximum percentage of running at 100 fect piston speed, steam pressure 60 lbs? What would be the diameter of the plunger of pump,
  - 8. Describe how you would make a good concrete for foundations for your engines.
  - 9. In staying a pit frame against the pull of the engine, how would you place your stays?

#### SCHOLARSHIP-Time 21 hours.

- 1. The base of a right angle triangle is 60 feet, and perpendicular 80 feet, what is the hypothenuse?
- A can do a piece of work in 5 days and B in 7 days, how long will it take B to finish the work after A has worked 2½ days?
- 3. Find the specific gravity of a stone which
- 4. At 90 cents a cubic yard how much will it cost

to build a wall 72 feet long, 7 ft. nigh, 3 feet thick at work of drawing pillars is begun. the bottom and eighteen inches at the top?

- 5. Divide \$3,600 among A, B and C, in proportion of 5, 6 and 7.
- 6. Find the square root of 4.7 to four decimal places.
  - 7. Find the sum of 27, 13-14, 5 3-7, 19-24.
- 8. On a railway there are 30 telegraph poles to the mile. If a train passes 17 of these in a minute, at what rate in miles per hour is the train moving ?

#### SURVEYING-Time 21/2 hours.

- 1. How should a compass be set in relation to the operator?
- 2. Why is the compass plate marked W. on the right hand side and E. on the lett?
- 3. Plot the following compass survey to a scale of 100 ft to 1 inch :-

STATION	BEARING	DISTANCE
1 to 2	N. 35° E.	270 ft.
2 to 3	N. 831°E.	129 ft.
3 to 4	S. 57° E.	222 ft.
4 to 5	S. 34°W.	355 ft

and give course from 5 to 1, and find the distance from read it? 5 to place of beginning by protractor and scale,

- ings of which are respectively N. 25 deg. W., and S 12 deg. W.?
  - 5. How would you set off a right angle with a tape.
- 6. A Surveyor's chain is 66 ft. in length, a link is the 100 dah, part of a chain, An oblong field, having all its angles right angles, measures 5 chains and 72 links in length, and 3 chains and 45 links in width. How many square yards does it contain?

#### Modes of Work .- Time 3 hours.

- Give reasons why deferent methods of mining are used, and why one method will not answer for all mines
- 2. Show clearly, by means of sketches, the two common methods of working a coal field, giving the conditions favorable to, or requiring the application of each of these methods.
- 3. In developing a mine, and mining fa seam of coal generating large quantities of gas, how should the mine be planned?
- 4. In opening up a colliery, what precautions would you use for the future protection of your slope of shot-firer? or shaft?
- 5. Do you consider electricity, as a motive or lighting power, dangerous in mines producing explosive gases? Give reasons for your answer.
- 6. To what cause or causes can squeezes in mines be traced?

8. Define (a) Creep. (b) Thrust.

### VENTILATION. - Time 3 hours.

#### Co-efficient .00000001.

- 1. Name the different kinds of safety lamps with which you are acquainted, and say in your opinion which is the best, and why?
- 2. Describe the action of the flame of a safety lamp in a mixture of C.  $H_4$  and C.  $O_2$ .
- 3. In a section of a mine there are 12 rooms. An explosive mixture of gas is discovered in the 6th. room. What precautions would you take to guard against an explosion?
- 4. Find the weight of a cubic foot of air at 60 deg. Fah and barometer 30 inches.
- 5. If 80,000 feet of air are passing with a pressure of .75 inches, what will the pressure be if the quantity is decreased to 65,000 feet, and what will be the difference in the H. P. ?
- 6. Describe a water gauge, and how you should
- 7. The H. P. of a fan = 20. and the W. G. = 2 in-What is the angle made by two lines, the bear- ches. What quantity of air is circulating per minute?
  - 8. Find the water gauge that is necessary to force 10,000 cubic feet of air per minute along an airway 6,000 feet long, 10 feet wide by 5 feet high.

#### MINES ACT .- Time 3 hours,

- 1. What does the Act say about the employment of boys?
- 2. What does the Act say about the liabilities of persons working in or about a mine?
- 3. What does the Mines Act say about the liability of mine officials?
  - 4. What are the duties of a mine examiner?
  - 5. State what the law says about sub-marine areas
  - 6. What is meant by special rules?
- What is the procedure in the case of prosecution under the Mines Act?
- Under the Mines Act, what is meant by the term Mine?
  - 9. What certified official can act in the capacity

Owing to the high cost of production compressed air can only be economically applied for the purpose of ventilation in rare instances. It would be ruinous to adopt a system of ventilation by compressed air in any of our modern mines, owing to the large quantity of air required and the high cost of production; but compressed air 7. What must be carefully considered before the may be adopted in metal mines economically.

#### MARITIME MINING RECORD.

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

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STELLARTON. N. S.

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A NEGLECTED N. S. ASSETT.

of our country, which has been very much neglected. The deposits of Nova Scotia, and New been developed in their primary stage.

per ton. It was practically all shipped to foreign published soon as possible. markets in the crude state and manufactured there into many different products. If this amount was manufactured at home, its value at the mills (present wholesale prices) would be about \$3,000,000.

In the United States, where this industry is In the United States, where this industry, in which means a developed to its fullest extent the trade has in of the year where are very rapidly during the past decade. The 30-35 per cent. production for 1900 was 594,462 tons, in 1906 it was 1,540,585 tons. It is a known fact that gypsum exported from Cape Breton to Chester paid a duty of fifty cents per ton, was manufactured there and sent back to Canada, paying 12 1-2 per cent. duty per ton, to be used in the building of fire proof walls in different buildings in the Upper Provinces. This is simply true because our people know practically nothing of the great extent of our deposits.

Some who have made a special study of this subject for many years, both from a scientific peeting in Canada in the month of May last and practical point have secured much valuable information, which leads us to say that it can be proven beyond doubt that it is possible to manufacture gypsum in this country, under the existing circumstances, and supply not only our own but the greater part of the United States market.

There is nothing in the mineral industry in our province that has the opportunity for expan. from any conutry save the U sion as that of gypsum. The Mining Branch of contributed 375,721,000 tons. sion as that of gypsum. The Mining Branch of contributed \$15,121,000 tons. Over a third of the the Department of Mines, Ottawa, under Dr. people engaged throughout the world in mining Haanel, its Director, has written monographs on and quarrying—nearly five and a quarter millions graphite, asbestus, zinc, resources of B C, and —are employed in the British Empire, and nearly

What has been done for these ought to be done by a Nova Scotian expert for gypsum. Let some one capable write a monograph on gypsum, of coal-miners in the United Kingdom was 1.29

tents the location, the quantity and quality of all the deposits, at least in Eastern Canada; the possible shipping facilities and costs, the uses, demand and methods of operating quarries and pre-paring the product for the market on the most modern principles with detailed specifications and costs.

If such a work were published, it will, no doubt bring our latent resources to the front and give us full value, not only for what is being produced to day, but also that of an increased production. It is a peculiar fact, which possibly explains to some extent the reason for so little development in this line, that all of the quarries with one exception, of any importance, that are being operated are controlled by American capitalists who prefer to manufacture this product at home rather than abroad.

The exception is the Great Northern Mining Co., of Cheticamp. The company is not yet, it is Gypsum is one of the most important minerals ion of mills and the requisite machinery is being pushed vigorously. Those at the head of this concern, Father Bissett and Mr. Grandon, M. E., Brunswick, exceed anything known to the world among them, desire the greatest praise for their in quantity, variety, and quality; yet, although enterprise; we had almost said daring, for it this is a fact and though some deposits have been needs courage to embark on a wholly new enterpoperated for nearly a century, they have only prise. The Record hopes that the Great Northern Co. is but the pioneer of an industry that, af-For the year 1907 Nova Scotia produced 324, ter coal, may dominate the mineral section of our 945 tons and received a value of about one dollar province. Let a monograph be prepared and

> It is said that the United States Steel Corporation is now operating at 49 per cent, of capacity, which means a half increase over the early part of the year when operations were on a basis of

> J udging by the returns for May as detailed in the Labor Gazette, lumbering, including logging and saw-milling-is a very dangerous occupation, the next dangerous being in connection with railways, the third in order being mining. There were 23 lives lost in lumbering 22 in railroading and construction, and thirteen in mining and pros-

The world's coal supply for 1906 totalled 1,013,-000,000 tons, an increase of 72,000,000 tons on the preceding year. Of this amount Great Britain accounted for 255,097,000 tons, from any conutry save the United States, which one-fifth in the United Kingdom. Great Britain employs 867,000 in coal mining alone, the United States coming next with 641,000. The death-rate so that the reader can determine from its con- per 1000; in the United States, 3.21 per 1000.

## - Rubs by Rambler.

A loyal P. W. A. man writes me, as one who knew a little about P. W. A. matters in the past, asking my opinion of the present position of the society, and what is best to be done. the last question first, my answer is "stand pat." The P. W. A. is in the province to stay and if the loyalists keep a stiff upper lip they will find by and bye that theirs has been the manly and patriotic course and that their position is so strong that several U. M. W's, with more astute leaders than Lewis, and far smarter and shrewder organizers than Patterson, will be powerless to dis-lodge them. The P. W. A., I should fancy is as strong to-day as ever it was. True, it may not strong to-day as ever it was. It do, two years have the numerical strength of two years but it has a large number of solid, ago, but it has a large number of solid, hard headed, common sense, tried and true men to carry it safely over the hill presently filling it. The referendum vote proves only that there is a large number of men who would like a change and that is all. It does not in any great measure affect the standing of the P. W. A. Between you and me the referendum was a high old joke, engineered to give the men a day off, with some-thing approaching an excuse. It could not pos-sibly effect any purpose, good purpose at any rate. I go as far as to say it was beyond the power of the Grand Council to order. The Gd Council had power to order a referendum on the question, say, of affiliation, or co-operation with some other society, trades union or otherwise, but it had no power to call for a referendum to see if the P. W. A. would allow itself to be submerged, absorbed, or form a part of the U M. W. Every Grand Officer, every delegate, every ordinary member of the P. W. A. was and is at perfect liberty to forswear allegiance, or quietly resign from the P. W. A. and go over to the U. M. W's. But as the constitution stands, no lodge-far less the Grand Council as the mouth piece of many lodges-could decide to go over as a lodge. mothers son of them outside of the lodge room, or in the place even where the lodge meets could decide to go over in a body to the U. M. W., but as a body of individual men and not as a body comprising a lodge of the P. W. A. I have said the P. W. A. is as strong to-day as ever. Perhaps stronger, for it has been purified. The loyal members know now who's who. Again the referendum alters nothing. The vote determines nothing, the majority was not decided enough. stead of receiving only 2746 votes to "win out" they should have received at least 3400 votes. It

bers at large. I understand the Pictou lodges, at any rate, intend to stand by the P. W. A. and are already preparing to make their position secure. Certain of the Island lodges have no present intention of resigning from the P. W. A., indeed in Pictou and the Island the late fuss has only strengthened their love and affection for it.

More and more as the years roll on, public opinion will become an arbiter in industrial strife. think those who take any interest in the relations between capital and labor, the serious and unselfish among them, must have come to some such conclusion. Neither the weight of capitalistic gold, nor the weight of numbers of the wage earners is to be the dominant factor in the prevention of open feuds between masters and men, but the weight of public opinion. In view of this assumption, justified by happenings in recent reass, it is a marvel to many that so large numbers of the P. W. A. expressed a preference to be swallowed up by an alien society. It may be asked, "Will the fact of the miners of Nova Scotia attaching themselves to a foreign organizatoin have any effect on public opinion"? mind most certainly. Nova Scotians, as a whole, had, if anything, a rather friendly feeling towards the P. W. A. and took considerable interest in its doings, and in not a few cases seemed to be on its side rather than that of the operators. The P. W. A. was a home society, led by men from among ourselves, therefore peoples sympathies were with it, But should there be troubles in the future under the U. M. W. it is possible that the public may lay the blame on agitators outside the province. They will say, "Oh this trouble is fomented by foreigners, who cannot know of conditions in N. S. and to whose interest it may be to provoke strikes," and whether they blame the foreign society or not as the makers of mischief, they will not have as lively an interest in the troubles of members of an alien organization as of members of a home one. The present policy of the P. W. A. is dictated by Nova Scotians, or British subjects if not born in the province; should a portion of the miners allow themselves to be infused into the U. M. W., then their policy will be dictated by foreigners. Patriotism includes pride in the institutions of one's country. It is therefore natural that the public will have much more sympathy, friendliness, leaning, towards an institution guided and managed by Nova Scotians, Canadians, than to any foreign organization, however big and however boastful.

The paper headings have it that the 'Miners turned down the P. W. A.' and that the U.M. W. won bas been some vocifererus shouting, by would be out by between 400 and 500. That is not the case, reformers on the rampage, in favor of government. The U. M. W. lost by between 600 and 700. Instead of receiving only 2746 votes to "win out" greed of the coal kings, and the cruel craftiness they should have received at least 3400 votes. It of the middlemen, these reformers prayed—as may be said that the arrangement made at Gd. they shouted—for the good George Murray to decouncil was that a majority vote should decide liver them. I am not sure that I did not join in the question. Any such arrangement was 'ultra' the petition. But I would not like to say that it vires' of the Gd. Council and therefore not binding on the members at large. The arrangement was from motives similar to theirs. It would be may—from the stand point of honor,—be binding look upon the local government trying to manon the delegates or some of them, but it does not age a coal mine, with say the genial Dr. Kendall in the slightest affect the position of the mem-

mind that they would make a bonnie mess of it ish House of Commons, Mr. Lloyd George admit-

Coal and Railway Company's affairs. Ald. Winsstand most of the time. He told of the company being formed and said 500 shares of stock, with \$100 as the apparent par value, were distributed without any actual payment of cash, so far as witness knew, for any of the stock. It so happened that 430 shares of stock fell into the hands of Mr. C. N. Skinner, of St. John, and after holdstructed, more upon advances from the People's and a stock transfer book, but there was no actfor checks, letters and a few vochers, but there is nothing to show that it is accurate.

Before Mr. Winslow was on the stand, Deputy Receiver General Babbitt was recalled and in his could provide for themselves. I am opposed to evidence he told of the issue of \$450,000 bonds, collections for old and infirm ministers on the

He submitted a statement showing that \$1, put into the enterprise and that since the Government took over the road until March 19th., 1908, and half the sum necessary to secure a pension of the government had paid \$315,599,22 in interest ten dollars a week after the age of 65. Our Nova and in meeting other obligations, exclusive of the Scotia contributary scheme is far away ahead of issue, many of obligations being involved before the British. In Nova Scotia, as yet, we are in-

like as bad as they have had it in the States. The Fair era, and to them the depressed business conditions have been a sad revelation. . . . . The lack of activity subsequent to the Chicago convention is a new indication of the slow progress that will be made toward recovery, and illustrates at the same time the seriousness of the situation that has prevailed in the past few months." -1-

originally introduced, if a mans savings or income Tim Leadbetter—was sent to Westville to request amounted to ten shillings per week, he received a assistance, if needed. He came back with \$100 pension of five shillings, whereas if his income dollars, but the money was not needed for its

They would surely have dear bought experience, ted the unfairness of this and will favor a sliding The government of New Brunswick has in an in-scale so that there may be no inducement for men The government of New Diagrams as a second of the contribution of the ment of satisfactory, at least to those most concerned—altogether in favor of the latter, and said the "Fredericton, N. B., June 26.—This morning former was cumbersome and would not work in the time of the Central Railway Enquiry Com-Britain. Whatever the rank and file of both mission was taken up with the New Brunswick parties may think on this point, both parties as a parties may think on this point, both parties as a body are afraid to speak in favor of a contribulow, the secretary of the company, being on the tory scheme. Mr. George's main argument against the idea that a non-contributory scheme was after all a charity, was that so long as tea and sugar were taxed, all men contributed to the national funds. This is a monsterously weak argument and would only hold good if all contributors to the national funds were to receive a pension. A weak point too about the argument is ing it for a short time, he started distributing it that the man who receives a pension not only gets ing it for a short time, largely friends and relat-about to some others, largely friends and relat-ives of Hon. Wm. Pugsley. This company hand-portion of that contributed by his thriftier fellow portion of that contributed by his thriftier fellow led a large sum of money through getting advan- man. Mr. Harold Cox, a lively radical member, ces from banks when the road was being con-made a telling speech against a non contributory structed, more upon advances from the 1 copies scheme and to my mind had far the 1 set of the Bank with subsidies and an issue of bonds as see- argument. Mr. Cox claimed that men were quite urity. Of books the company had little or none, willing to tax themselves for their trades unions scheme and to my mind had far the last of the and that all taxation was compulsory. He held that it was better for a man to tax himself for ual cash book. A ledger was made up, however, his own pension than be taxed to pension somebody else. Mr. Cox seems to favor the view expressed many times in the Record, that the best scheme of all was to raise wages so that men but he said that although it was the practice of ground that they ought to make provision for the Government to register all its bond issues themselves. If it is argued they cannot do this on account of the smallness of their stipends, my ready reply is 'raise them.' When a call is given to 019,599,22 was the amount of provincial moneys a minister the old formula, so much, and a manse might be extended by the addition of the words dependent self helpers,

We have not had it, in Nova Scotia anything voted at the late "referendum" for the P. W. A. will stick to the Association, in face of everything, Coal Trade Journal referring to the depression and even if it is the only lodge which shall so desays, in its last issue: "The first half of the year termine. I never for a moment thought that says, in the says and it has probably Lauysman and Inverness, would come to any 1908 has passed into history, and it has probably Lauysman and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any been the most unsatisfactory six months in the tou, and I may add Inverness, would come to any business experience of all of the younger element different conclusion. In Westville was fought to any business experience of all of the younger element different conclusion. In Westville was fought business experience of all of the younger element different conclusion. termine. I never for a moment thought that Ladysmith and, indeed, the several lodges in Picgotton previous instance, then for the recognition of unionism as embodied in the P. W. A. It was not to be expected that the men of Westville, who had played so important a part in the starting of the society, would readily consent to cast it from their memories The men of Westville played a part in the starting of the P. W. A., which the younger men of to-day may never have heard of. When the Springhill men struck in August 1879 In the British old age pension scheme as against a second reduction in that year, an agent, was ten shillings and sixpence he got no pension original purpose. The men of Springhill decided at all. On a discussion on the subject in the Britthat the money should be employed in paying the

services of one in organizing lodges in the various during May was approximately 127,425 working days, parts of the province. With that hundred dol-compared with 5,400 in April, and 9,408 in May, 1907. Inrs lodges were formed in Pictou Co., Cameron.

The following shows the trades affected by new discovered by the putes during the month, and the number of workers afwhether but for that hundred dollars the P. W. A. had ever been started, though a local union of some kind might probably have been started in trades 1; 20; Textile trades 2, 6,350; Gen. trans-Springhill. The example set by Ladysmith will port 1, 250. Total 11, 9,408. be followed by the other Pictou lodges. Indeed I hear that even in South Cape Breton it will be lowing provinces of the Dominion :found that several of the lodges will decide on no account to bow the knee to an alien organization, British Columbia 2. Total 11.

#### MINING MACHINES

a Pittsburgh district mine in 1893; that is, the first that was regarded as having within it commercial possibilities. As far back as 1882, a Harrison punching machine was installed in the Laurel Hill No 2 mine of Col. W. P. Rend, and that veteran innovator in all that pertains to mining, was so sanguine of its successful use that he ordered seven more of them installed. Then occurred a strike of the miners against the use of the machine, and the result was that they were taken out. In September, 1883, ten machines and a Norwalk compressor were installed in the Biddle shaft of ed. the Westmoreland Coal Co., at Irwin, but they were not as successful as had been expected. All of the early types of mining machines were modeled on pick mining, and were, moreover, cum-bersome and crude. More coal was torn loose with them by pick mining during a similar time, but the expense of their up-keep was so heavy that they were found expensive and were abandoned. It was not until the chain machine came into being that machine mining can be said to have been a success; but since that time all models of machines have been greatly improved, and the greater amount of coal is now mined by machines. Ohio's output of machine-mined coal last year was over 79 per cent., and in the Pittsburgh district, which produces more coal than any State in the Union, outside of Pennsylvania, about 67 per cent.—Coal Trade Journal.

#### TRADE DISPUTES IN CANADA DURING AUGUST.

Canada during May was much less than in the corresponding month of the previous year, and only exceeded er (Mr. T. E. Richards), wno had a thorough knowledge the month of April by two, there was a great increase in the amount of time lost, owing largely to a strike of five minutes of hard work succeeded in restoring natural cotton mill hands, which extended to many industrial respiration. Had there been the slightest delay in that centres in the province of Quebec, throwing about 6,000 particular case the son's life would have been lost. He employees out of work. Building operations were to (Mr. Gray) had no hesitation in saying that during the some extent impeded in Montreal on account of a strike last five years hundreds of lives had been saved by first of bricklaye.s. but there was little unrest elsewhere in aid in that district alone, and he could give numerous Canada in the building trades.

The total number of trade disputes reported to have been in existence in Canada during May was 15, com- less than 369 persons were injured in and about the mines pared with 11 in April, and 49 in May, 1907. There in that district during last year. He, however, wished

fected in each group of trades.

Mining 3, 2,140; Building trades 4, 748; Metal

The new disputes of the month occurred in the fol-

Nova Scotia 1; Quebec 4; Ontario 3; Alberta 1;

The following were the causes of the new disputes of the month :-

For higher wages, 2; Against reduction in wages, 3; Against reduction in wages and bonus system, 1; A-The first coal mining machine was installed in gainst discharge of employees, 3; Against employment of non-unionists, 1; Against conditions of employment Total II.

> Of the 13 trade disputes in existence during the month, 6 were definitely settled, and in 3 others it was reported that the firms involved had ceased to be affected leaving 4 disputes still in existence at the close of the month. One dispute was settled by conciliation under the Industrial Disputes Investigation Act, 1907, two were settled by negotations between the parties concerned, in two cases work was resumed without negotations, and in four, the places of the strikers were fill-

Of the disputes which were terminated 7 resulted in favor of the employers, and 1 in favor of the employees, while in 1 the result was indefinite, the matter in dispute being referred to a Board of Investigation and Concil-

#### AMBULANCE WORK IN MINES.

At the luncheon in connection with the ambulance competition at Mardy for Gen. Sir Charles Warner's Rhondda Ambulance Shield, won by the Mardy team by the narrow margin of one point, Mr. F. A. Gray, the chief inspector of mines, in proposing the toast of the St. John Ambulance Association, said he considered a knowledge of ambulance work of great importance in connection with mining, as serious results often followed lack of proper attention immediately after a mishap. Besides being humane, ambulance was economical both for the colliery owners and especially the injured workmen, for simple fractures were often converted into compound fractures through want of first aid, the value of which was never more clearly shown than when the son While the number of trade disputes in existence in of the agent of Locket's Merthyr Collieries some time ago received an electric shock, Fortunately, the fathof ambulance work, was on the spot, and after twentyinstances in point. They would appreciate the necessity of a knowledge of first-aid when they realized that no were 48 firms and about 8,743 employees affected by just to give a word of warning, and that was that am-trade disputes during the month, about 46 firms and bulance men should always bear in mind that their ser-9,408 employees having been involved in new disputes, vices were only required pending the arrival of the med-The loss of time to employees through trade disputes ical man, who should be on the spot as soon as possible.

## AROUND THE COLLIERIES.

Deliveries of coal except to the railways, are reported slow in Montreal.

On account of the general slackness in manufactures there is no coke being made at present in Pictou Co.

Through the 'block' and strikes it is computed that 3000 men are idle at the collieries in Lankashire, Scotland.

Springhill happily is enjoying a respite from turmoil. Better for all, the men especially, that things are as they are than otherwise.

ydney No. 4 is rather slow in making the start that its distant friends looked for. Perhaps there is no call for a rush at present,

Springhill is experiencing the usual epidemic of off days during the summer months, large numbers being reported off work, especially for days after pay days.

Springhill after a long period of prosperity is beginsome time has been lost and the outlook is not the brightest for the future.

The blast furnaces of the Nova Scotia Steel & Coal Co. will start up again in say, ten days or probably from the 15th, to the 20th. The furnaces will be devoted for a time to the production of foundry iron.

Big as the Dominion Coal Co's, shipments for June are they are not quite up to the shipments of June of last year, probably due to the fact that the double shift has been discarded except in one instance.

If the ticker always tells the tale, the tale it told last week about Dom. Iron & Steel was not a comforting one. Dom, Iron common went down sadly. The ticker cannot be so certain of the outcome before the Privy Oouncil as Plummer and Workman.

In view of the fact that the furnaces and open hearths were closed down in June, the fact that the shipments for that month are only some 10,000 tons, short of those for June of last year shows that the Nova Scotia Steel & Coai Co. found other and fully as profitable markets for

The State of Missouri, it is highly probable, carries off the palm for having in 1907 produced the largest ents. The output was 4,274,000 tons and the fatal accidents numbered only eight, which gives 534,500 tons to Sydney steel, and yet does not protect the industries of coal mined per life lost. This is indeed a record of whose products are used by the steel companies. If which the State may well be proud.

That the general market is not quite so brisk in Montreal as anticipated is evidenced by the fact that the S. S. Havsa, the Drummond boat, made two trips for the Acadia Coal Co. The Acadia is filling an old contract for the G T. R., otherwise trade might not be quite so brisk in Pictou County.

If the men at the collieries would take a holiday and be done with it, it might be all right, but after a holiday there is sure to be a big after-math, For instance the normal output at Sydney Mines is 2200 tons per day. The day after Dominion Day, a holiday, the output was 1,000 tons only. That means that over 50 per cent. of the workmen were picking up the ravellings of the day before.

Springhill, it appears, furnished the majority in the referendum vote for amalgamation with the U. M. W. of America Well as the number of votes for affiliation from each lodge, indicated the conscious inability to conduct there own affairs, an almost unaminous vote might have been expected from Pioneer. When the past action of the lodge and the personal of the leaders is considered, any change must be for the better.

It seems curious that the miners at some of the collieries in C. B. should be demanding an advance, while in Britain there has been two reductions in miners wages of late, equaling about eighteen per cent. It is ning to feel the effects of the general trade depression, the opinion of some that if the Nova Scotia coal operators do not soon realize more profit on sales there may be a proposen reduction in pit costs, including rates for cutting.

> The Geological Department has secured a little money and is sending the staff out to do some field Hugh Fletcher sticks to Cumberland County. His summer quarters will be in the North Western part of the county, adjoining the coal mines. It is said Hugh was never in love with anything but his field work Is it possible that at long last he has taken a 'thocht to mend'

A Springhill correspondent writes: It is understood - will be accorded a prominent that Mr. W-- Wposition under the American Government of the society when affiliation is affected. The rumour however may only be the result of the gentlemans advocacy of felodese. The result of the vote places us, as Canadian miners, in a bad place, a place in which no shred of sell respect can remain to us, from whatever point of view we may look at it. Such an acknowledged want of ability to conduct our own affairs would not be thought of five years ago. The influx of a disgruntled, incapable foreign element can only account for the degenerate action of Canadians to-day,

The making of fire-brick at the Drummond colliery quantity of coal with the lowest average of fatal accid- has been suspended for a time, owing to short demand and low prices. The government gives large protection we are ever to make fire brick in Nova Scotia the government must come to the assistance of those who are willing to venture in the fire brick business. are brick made in N. S. equal to the second class fire brick imported. How is it that it is possible to import these brick. The steet industry should not be the only one to have consideration at the hands of the government.

## AROUND THE COLLIERIES.

#### Coal Shipments June, 1908

-DOMINION COAL COMPANY, LTD,-

-Output and Shipments for May, 1908-

-Output- -Shipments-

Dominion	No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8	2 66 851 3 36 052 3 8 836 5 55 285 3 23 178 13 665 21 384	384 299
			Street, Street, Mills and Address.

		384	
Shipments Ju	ne 1907	386	571
Decrease "	1908	2	272
Shipments 6 m	ios. 1908	1	506 815
6	" 1907	1	386 307
T.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

#### INTERCOLONIAL COAL CO.

Shipments		1908	
Decrease	- 44	1908	471
		1908	
Increase	6 "	1908 2	626

#### NOVA SCOTIA STEEL & COAL CO.

Shipments J	lune	190864 190777	100
**	11	190777	055
Decrease	"	190812	955
Shipments 6	mos	. '08287 '07240	595
" 6	66	'07240	682
Increase 6	44	08 46	913

#### ACADIA COAL CO.

Shipments		Jun	e 190830 190730	
Increase		44	1908	111
		mos,	1908	648 894
Increase	6	14	1908 19	754

#### CUMBERLAND RAILWAY AND COAL CO.

			001	
Shipments	June	1908 1907	29	411 310
Decrease	44	1908	4	899
		1908 1907		
Increase	6 4	1908	21	933

#### INVERNESS RAILWAY & COAL CO.

Shipments .	Ju	ne 1	908 907	30 28	171 062
Increase	46	1	908	2	109
Shipments	6	mos.	'08 '07	128 103	291 037
			'0880'		

It is said that the commission appointed by the Local government to enquire into the possible effect of an eight hour day, will begin its sittings in August. This sounds rather curious as, so far as is known, the commission has had no private sessions to map out a course of procedure. Before the British Commission on the same subject held open meetings for the hearing of evidence, it sought for and obtained figures and statistics necessary to an intelligent comprehension of their duties. Notither the masters not the men have been notified of what is expected of them in the way of evidence. It is understood the commission will sit at Glace Bay, Sydney Mines, Inverness, New Glasgow, Stellarton, Springhill, Yarmouth, Bridgewater and some other towns to the westward.

A party who is prominent in the public eye these days, on account of his writings in a conversation last week with a Record representative said: "You talk about there being nothing in coal and yet all the coal men are millionaires". He was asked to name one coal baron that had ever made a fortune from the selling of coal. He replied "Theres Mr. Cowans who writes to the papers as if all the profit went to the man and none came his way. If none came his way how is he rolling up wealth". "If he is rolling in wealth" was the reply, he never never rolled it out of the profits of the sale of Springhill coal." Since the conversation took place the following figures of shipments and wages anneared in the Circuitle:

and wages appeared in the Chronicle:

Shipments 5 months ending, May 1908 169,240
Wages 5 " " 1908 368,913
Now will some of those who say that coal costs a
dollar or a little over, add the cost of material and fixed charges to the amount paid for wages and say how
much coal costs to produce in Springhill where the
methods of production are of the best,

#### C. P. R. AND HALIFAX.

It is stated, on what appears to be good authority, that Sir Thomas Shaughnessy, on the occasion of his visit to Ottawa last week, re-opened the negotations of last spring looking to the acquisition of runsing rights over the Intercolonial from St. John to Halifax, and Minister of Railways with that end in view.

Sir Thomas has all along, but more particularly during the past year, been anxious to secure for the C. P. R. entrance by rail to the pert of Halifax, and it is said that now, in the event of a failure to reach a satisfactory agreement with the government as to the terms on which these running rights should be granted, he proposes that a tentative agreement for one year should be entered into, this agreement and its results to form a basis at the expiration of the year for arbitration as to what would be fair terms to both parties. Sir 1 homas's proposal is regarded as a new development of the All Red Route scheme.

The C. P. R. at one time had running rights into Halifax, but when Mr. Blair became Minister of Railways the agreement was cancelled because it was considered that the I. C. R. was suffering thereby. Practical railway men declare however, that with an equitable agreement, both the Intercolonial Railway and the city of Halitax would greatly benefit by the C. P. R being granted the privilege.

The C. P. R. would undoubtedly bring much more business to the port in connection with its fast line of steamers, and the still faster boats that are projected under the All Red Route scheme, and Halifax would undoubtedly benefit by being made a competing point instead of its transportation being monopolized by the Intercolonial.

The Intercoionial Railway would also be the gainer for while the C. P. R. would to a large extent bring its own business to the port, if it did take some of the Intercolonial's, this would be more than make up by the regula: rental that would be paid by the C. P. R. an instance of what such a rental might be it may be said that the Wabash Railway pays the Grand Trunk a rental of \$250,000 a year for running rights over the G. T. R. line from Windsor to Buffalo, besides contributing its proportion of maintenance. From Windsor to Buffalo is two hundred miles, while the distance from St. John to Halifax is 275 .- Montreal Witness,

The new bank head extension of No. 2 mine, Springhill, is being pushed ahead as connection will be made towards the last of July. It will be an imposing looking structure when finished and will add much to facilities for hoisting coal from the mine.

Considerable culm is being dumped around and behind No. 2 boiler shed, Springhill

In ccal mines where coal cutting machinery and haulage plants are actuated by means of compressed air the exhaust air from the engines would augment the ventilation of the mine, and in case of a tunnel being driven across the measures for the purpose of exploration the boring machines would in all probability be driven by compressed air, and by having the pipe column large enough the ventilation of the tunnell may in this case be economically carried out, because it would be less expensive under these conditions than would the driving of a return air-way, or the building of a brattice, or air sollar in the tunnel.

The racing days of Springhill are past for this time. It was a very successful meet, good racing and good

In metal mining, where little or no noxious gasses that in fact he submitted a definite proposition to the are given off, the only gasses which have to be diluted and carried away are those given off from explosives, burning of lights, breathing of men and animals, etc. Therefore, a very much smaller amount of air is required to ventilate the workings. A large number of metal mines rely upon natural ventilation aided by the exhaust from the rock drills, pumps, and other mechanical appliances for the purpose of keeping the mine in a fit state for working.

> Many wrokmen have the impression that air is impaired whilst undergoing compression, and that when delivered to them for breathing purposes through the mains is detrimental to the health, but several mining authorities and chemists have made analysis of samples of compressed air taken from the compressed air mains in mines, and the result has shown that the air was practically pure. Some of the gentlemen who made these experiments are Dr. Haldane, Martin, Thomas, and Mann.

> In Pennsylvania, the condition of the miner with respect to the daily wage, hours of labor, sanitary surroundings, protection from accident, and pecuniary relief in case of disability, is a fortunate one when compared with conditions that exist in many other States and countries. In this State we have at many collieries in the Anthracite region what are known as First Aid to the Injured Corps, whose of emergency greatly lessened the suffering of the injured workers. There are also established at the various collieries emergency hospitals, the beneficent character of which is being gaily demonstrated. And to lighten the immediate distress of the men who are injured in the mines, and to give their families temporary financial assistance, many companies have established relief funds.

#### INTERCOLONIAL RAILWAY.

#### TENDER.

Scaled tenders addressed to the undersigned and marked on the outside "Tender for Water Supply" will be received up to and including Tuesday the 14th July, 1908, for extensions to the Water Supplies at Mulgrave, N. S. Campbellon, N. B., Little Metts, P. Q., St. Charles Junction, F. C.; and St. Apollinaire, P. Q.
Porties may tender an one one or of the above works; each tender being placed in a separate scaled envelope and marked on the outside "Tender for Water Supply abe seen at the Station Master's Office at each of the above mentionel places and at the Chief Engineer's Office, Moneton, N. B., where forms of tender may be obtained All the conditions of the specifications must be compiled with, D. POTLINGER,
Railway Office,

General Manager,

Railway Office, June 30th. '08. General Manager, Moneton, N. B.

# Amatile

A roofing that consists of smooth materials, made to receive a heavy coating of paint, is not a roofing at all—the paint is the real roof.

"If you are told that certain roofings don't need painting when first laid, don't be deceived into thinking that they are like Amatite. The first coat of paint has been applied at the factory—that's all, and it will wear off in a little while and require renewal.

No paint is good enough to make a durable roof; a thick layer of pitch, faced with a real mineral surface is far better—and that means Amatite.

#### FREE SAMPLE AND BOOKLFT

A Free Sample with Booklet will be sent on request to our nearest office,

If you had a sample of Amatite in your hand you would see in an instant why it needs no painting or coating to keep it waterproof.

It has a rough surface of real mineral matter on the weather side. It is evident to anyone that it is no more necessary to paint such a surface than it is no consulty to paint a stone wall. Stone-needs no paint; neither does Amatite. It is strong enough in itself to bear the brunt of wind and sun without a protective coat of paint.

To paint Amatite would be a waste of time and trouble.

Amatite will last for many years without any care whatever. It is made to be trouble proof as well as weather proof.



The CARRITTE - PATERSON M'F'G C'O'Y., Ltd. St. John, N. B., Halifax, N. S.

Owing to the high cost of production compressed air can only be economically applied for the purpose of ventilation in rare instances. It would be ruinous to adopt a system of ventilation by compressed air in any of our modern mines, owing to the large quantity of air required and the high cost of production; but compressed air may be adopted in metal mines economically.

## "FENERTY" SHOVELS

Miners, Contractors and Heavy Work.

## "GILMOUR" SHOVELS

General Purposes,

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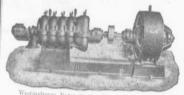
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A Motor exactly suited to the conditions is essential in the correct solution of any

power problem. A wide selection is afforded by the many types of Westinghouse Motors, among them you are assured of finding the motor to exactly meet your requirements.

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Herzler & Henninger Mach. Works Manufacturers of

H. & H. Coal Cutters & Tornado Coal Drills Belleville, ILL., U.S. A.



### Synopsis of Canadian North-West.

#### Homestead Regulations.

A NY even numbered section of Benninon Lands in Manituba or the Novakov and Provinces, accepting a and 30, not reserved, may be homeologist by a seal Provinces, accepting a sand 30, not reserved, may be homeologist, and the section of the section

by the father, mother, son, daughter, brother or sister of an intending home steader.

The state of the state

ceedings, the applicant for cancellation must state in what particulars the homestead is in default.

Applicant for cancellation must state in what particulars the homestead is in default.

A homesteader whose entry is not the subject of cancellation proceedings may, subject to the approval of bepartment, relinquish it in favor of father, may subject to the approval of bepartment, relinquish it in flavor of father, and the state of the state of the father of the f

(5) A homesteader intending to pasterom his resident duties in accordance with the above while living with the above while living with set of the death of on farming land owned by himself must notify the agent for the death of the intending the set of the set o W. W. CORY.

SYNOPSIS OF CANADIAN NORTH-WEST\_MINING REGULATIONS.

COAL. Coal lands may be purchased at \$10 per acre for self-coal land smay be purchased at \$10 per acre for self-coal land spaces. Not more than 320 acres can be acquired by one individual or complete the self-coal land spaces can be acquired by one individual or control or the great of the great or the great or the great or the great coal lands of \$10 per annual for a mind without and from \$20 to \$10 per annual for a complete coal lands of \$10 per annual for a control or \$10 per annual for \$

The fee for recording a claim is 85
At least \$100 must be repealed on the claim ach year or paid to the mining recorder in lies there are a paid to the mining recorder in lies there are a proposed or paid, the locator may, upon having a survey made, as has been expended or paid, the locator may, upon having a survey made, as a proper paid to the requirements, purchase the land at \$1 per acts upon popyling with other requirements, purchase the land at \$1 per acts upon the paid to the payment of a royalty of \$1.2 per cent on (the
sals).

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

Placer mining claims generally are 100 feet square; entry fee \$0] renewable yearly,
able yearly,
free miner may obtain two leases to dredge for gold of five miles e. ch.
for the miner may obtain two leases to dredge for gold of five miles e. ch.
for the miner may be a feet discretization of the Minister of he.
The leases shall have a dredge in operation within one season from the date
of the lease for each five miles. Remial \$10 per annum for each mile of river
leased. Royalty at the rate of \$1.2 per cent collected on the output after it
secessis \$10.00.

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

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Because it is the only Tobacco which does not excite Thirst for Water after using

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having taken over the business of the Stellarton Brick and Tile Co'y, and having installed more powerful and modern machinery, WILL BE PLEASED TO HAVE ENQUIFICS AS TO PRICE AND QUALITY.

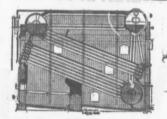
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Shipping facilities of at Port Hastings, C. B. for prompt loading of all classes and sizes of Steamers and sailing vessels,

Apply to Inverness Railway and Coal Company, Inverness, Cape Breton; Wm. Petrie, Agent, Port Hasting, C. B.

INVERNESS RY. & COAL CO'Y

Time Table No. 24, Taking effect at 1 a. m

	EAST	BOUND	JUNE 28TH., 19	-			
-					WESTBOUND		
-	Read Down   No. 52   No. 54   p m		STATIONS.		Read Up No. 51   No. 53		
ā							
8	11 15 14 21 11 49	L 3 50 S 3 55 A 4 08 L 4 13 F 4 25 S 4 38 F 4 50 S 5 05 F 5 18 A 5 33 S 6 16	CRAIGMORE CATHERINES POND PORT HOOD GLENCOE	ASLAFSFSFL S	11 05 10 57 10 37 10 32 10 22 10 09 9 52 9 32 9 18 9 02 8 57 8 i	8 . 3 97	
		8 6 28 8 6 48 8 7 12 A 7 15 P m	MABOU GLENDYRE BLACK RIVER STRATHLORNE INVERNESS	TREAL	8 7 7 4 7 3: 7 16		

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FIRECLAY

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Moisture Volatile combustible m Fixed Carbon Ash	natter 18.94 %	1.41 % 27.93 % 67.47 % 3.19 %	2.71 % 28.41 % 64.69 % 4.19 %
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man at C.	100 0		100 00	

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