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New Series Vol. 8 No. 23

JUNE 13th., 1906

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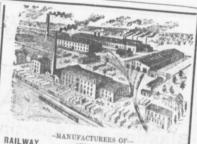
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On and after Sunday, JAN. 14th 1906 trains run daily, Sunday excepted,) as follows:—

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|--|------|
| MANIS LEAVE DE- | |
| NO 144 Mixed for II | |
| No 70 M | |
| No 144 Mixed for Hopewell No 79 Mixed for Trenton | |
| | |
| to D. Bopewell | |
| No 79 Mixed for Hopewell 78 Mixed for Hopewell 18 Express for Holling 18 Express for Holling 19 Express for Hollin | |
| | |
| 60 are 10f Pictou Landing | |
| 62 Mixed for Pictor | |
| 21 Mixed for Pictou Landing 62 Mixed for Pictou Landing 55 Mixed for Mulgrans | |
| 62 Mixed for Picton Landing 55 Mixed for Mulgrave 19 Express for Sales | |
| 19 Express for Syden | |
| 55 Mixed for Picton. 56 Mixed for Mulgrave 19 Express for Sydney 28 Mixed for Plythey | 8 |
| 30 Sixed for Mulgrave 19 Express for Sydney 28 Mixed for Pictou 16 Mixed for Trup 130 Mixed for New Glasgow 20 Express for H. | 11 |
| of Mixed for Trues | 11 |
| 139 Mixed for M | - 1. |
| 139 Mixed for New Glasgow 20 Express for Halifax and Montreal | 11 |
| an Express for Halifan | |
| 140 Mixed for Distantax and Montreal | 15 |
| 101 Mind of Fiction | 15 |
| and striked for Picton Land. | |
| Mixed for Head Landing | 16 |
| | 16 |
| to reached for New Glasson | |
| 2: Mixed for Pictou Landing 4: Mixed for Hopewell 45 Mixed for New Glasgow 17 Express for New Glasgow | 18. |
| 65 Mixed for New Glasgow 17 Express for New Glasgow 66 Express for New Glasgow | 19, |
| 17 Express for New Glasgow 66 Express for Peictou | 01 |
| | |

TRAINS ARRIVE AT STELLARTO! ry silken from Furion
rei Mixed from Treuton
for Mixed from Perion
for Mixed from Mixed
for Mixed from Mixed from Mixed
for Mixed from Mixed from Mixed
for Mixed from Mixed from Mixed from Mixed
for Mixed from Mixed

Alltrains are run by Atlantic Standard time.

Alltrains are run by Atlantic Standard time.

Golock is mid-night. Moncton, N. B, JAN 9th.

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Hoisting Engines in all Sizes from 12 inch. x 16 inch. Cylinders, to 42 inch. x 72 inch. Cylinders. Haulage Engines, all sizes, Endless Rope and Tail Rope System.

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 Because it costs less money to install, for every foot pound of actual work done on the mine; and is maintained and run cheaper than any other fan.

any other far.

(4)—It is incombutible and cannot burn.

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Bervind-White Coal Mining Co., 7 Fans; W. L. Scott Companies, 7 Fans; Francis L. Robbins Companies, 3 Fans: Ellsworth-Morris Companies, 4 Fans; Moon Run Company, Washington Coal & Coke Co., Imperial Coal Co., Essen Coal Co., H. K. Wick Co. H. C Frick Coke Co., Cambria Steci Co., Sumposa & Watkins, Scranton, Alberta, N. W. T., and Cumberland Raliway & Coal Co., N. S. Can. may be taken as fairly representative of the coal trade besides outsiders, as Erie R. R. Co. and Hoosac Tunnel.

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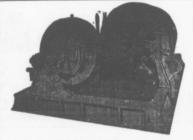
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Iron Pipe for Mining Purposes.

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-Established 1852-



A well-known min-MAN'S ing man recently fin-ished an Inspection of VIEW. the ANTHRACITE coal

fields of Pennsylvania. When asked what impressed him most, he

"The acidity of the water, and the fact that of all the pumps I saw there two out of three were Jeanesville Pumps."

An indication at least that we know how

to handle the acid water problem.,

When you send us the lift and quantity of water and the available power, we will send you complete information about what we can

Our bulletin No. 8, fresh from the printer, is full of up-to-date information. Write for it now before you forges.

Jeanesville Iron Works Co., Hazleton, Pa.



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Iron, Copper, Lead, Etc.

Titles direct from the Crown-

-At Moderate Royalties.

GOLD AND SILVER.

Licenses are issued for prospecting for Gold and Silver for a term of twelve months. They Comprise areas 150 by 250 feet, and any number can be obtained, at a cost of 50 cents per area. Leases of any number of areas can be obtained, at a cost of \$2.00 per area, for a term of 40 years; subject to an annual rental of 50 cents per area.

Licenses are issued to quartz mills, which make returns and pay royalty on the gold at the rate of two per cent, on milled Gold, valued at \$19.60 per oz.

Minerals other than—Gold and Silver.

-LICENSES TO SEARCH-

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

All titles, transfers, etc., are recorded free of charge by the Department. The royalty on coal is 10 cents per long ton, and on other minerals in proportion

minerals in proportion

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

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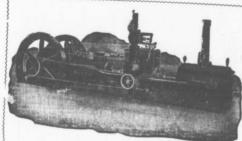
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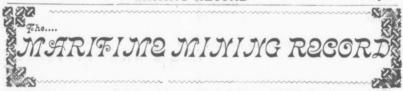
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135 to 139 GRANVILLE STREET.

HALIFAX. N.

The Dominion Coal Co's hoisting tower at St. John N. B. is now in working order, and the cost of handling and unloading coal at that port has been reduced to onequarter of what it was when the old bucket method of unloading was in use. Owing to the unusual rise and fall of the tide at this point, there is a long lift, all of 120 feet in fact, at the ebb of the tide. Six men are required to operate the machinery, which loads the fuel directly into the carts for distribution about the city and can work at the rate of 2,000 tons per day.

"Mine and Quarry" is the name of a quarterly bulletin issued by the Sullivan Machinery Co'y, of Chicago. The publication is bright and must prove of much interest to all users of the many kinds of machinery manufactured by the firm, and to those interested in a general way in mining matters.



Vol. 8, No. 23. Stellarton, N. S., JUNE 13th, 1906 **New Series**

THE 1905 EXAMINATIONS.

Answer to question re "Modes of Working" By W. B. Scott, New Aberdeen.

Ques .- In approaching the old workings of a mine which had been flooded with water a feeder is struck in a bore-hole eight yards in advance of the face. (a) How tt, in ten hours. Now such a flow is equal to a velocity can we determine the head of pressure without making of 1488 feet per minute, because 113×11.49=1488, a complete holing and (h) how can we find the thickness of the barrier without holing through it?

that is made perfectly watertight by packing, and having a gauge screwed on to its outer end to read off the discs to prevent the packing from entering the rear end of the velocity in the second hole is 2,214,144, pipe and the cylinders of clay are made a little smaller ocity or 2,214,144 × 30 than the diameter of the bore-hole so that they will slide easily into the hole.

After the hole has been stemmed tight with clay a gland is fixed on the front of the hole and this is wedged tight in position by means of two timbers. After the pipe has been placed in position for about 24 hours the gauge indicates the full statu pressure due to head of water in the old workings.

(b) First I would drill a four inch ho'e 10 yards into the coal, insert a pipe and make it watertight as has been already explained. The first test made with pipe should be to find the head or pressure of the water. Suppose that after the gauge has been screwed on the the question and found that after the first 30 feet was pipe for twenty-four hours it indicates 431/2 lbs pressure per sq. inch. This would be equal to a head of water of 100 feet. The pressure having been secured unscrew the gauge and let the water that has been collected run off. After being satisfied that the flow has become normal a vessel should be set to collect the water for a period of ten hours. Suppose the collection to be 91,5 cubic feet. (This must be 91.5 cub. ft. per min.-Ed.) We then convert the volume in cubic ft. into velocity in feet After this is done we must find the flow through the In diameter that would equal the contents of a cubic the barrier can be found with considerable accuracy.

foot. Therefore discharge from this bore-hole would be equal to a velocity of $91.5 \times 11.49 = 1053.33$ feet per minute. Then after thirty feet of coal has been cut off the barrier and a second hole bored of the same dimensions as the former one and the measure pipe has been packed in position and the flow measured as before-let us suppose that the flow of water from this pipe is 113cub. Again we find the flow of the second hole is greater than in the first in the proportion of 1051.33 to 1488 and that Ans.-(a) The pressure can be gauged with con- with a head of 100 feet of water, the flow through an siderable accuracy by drilling a hole into the coal ten orifice after being qualified by the vena contracta is yards long and 4 inches in diameter and inserting a pipe 2976 feet per minute. Then to find the thickness let us repeat the rule which shows that the squares of the velocities are directly proportional to the resistance. Therepressure after a lapse of a period of 24 hours. The fore to determine the thickness of the barrier we must mode of proceeding to secure the grip is as follows:— use as our factors the square of the velocity. That due
The hole is drilled into the coal. Near one end of the to a head of 100 ft. head is 8,856,576. The square of pipe an indiarubter disc is screwed up between two iron the velocity in the first hole is 1,107,072 and the square That is to say that the space is kept free let us seek to understand the importance of the factors from packing and open for the entry of water. After that are before us. With the first bore-hole the velocity the pipe has been placed in position cylinders of stiff squared was 1,107,072 and after we had advanced thirty compact clay are set over it and pushed on to the rear feet further through the barrier the square of the velocof the hole against the disc and tamped with a pipe that ity rose to 2,214,144 or the square of the velocity in the has a flange on its end to cover the end of the clay cyl- second hole was twice what it was in the first hole, and The cylinders are eight inches long and have the second advance through the coal of thirty feet proan inch hole through them for the passage of the pipe, duced the doubling of the first square, that is to say It may be said however that the hole is larger than the with a double advance we double the square of the vel-

1,107,072 This shows that a square equal to 2,214,144 is the equivalent of a resistance in the parrier of 60 ft. Therefore 8,856,576

2,214,114

That is to say that the thickness of the barrier from the inner end of the hole is 60 × 4 = 240. It is clear that if 1,107,072 is the equivalent of 30 feet 2,214,144 is the equivalent of 60 tt. and as the hole is already 30 teet through the barrier the thickness from the outer end of taken off the coal there still remains a barrier of 270 ft. between the old workings and the accumulation of wat-We must not suppose that the square of this or any other velocity will represent a distance of 60 feet in the thickness of the barrier, for different varieties of coal offer different resistances to the passage of water, and therefore to find the thickness of the barrier we per minute by multiplying by 11.49. The latter number pipe in two bore-ho'es in two successive 30 ft. steps being the number of cylinders 1 foot long and 4 inches through the barrier factors by which the this kness of

(Mr. Scott ought to be commended for his courage, pipe and pressure gauge fixed into the bore-hole would Has not he missed the point somewhere. hole discharged 1053-33 feet per minute what sort of The Pressure in lbs. per sq. inch vessel would be necessary for a ten hours flow. vena contracta anything to do with velocity? Will some one point out the errors in Mr. Scott's answer. - Ed. M.

THE 1905 EXAMINATIONS.

"PRACTICAL" writes.—I noticed in your last issue that you enquire into the possibility of some of the questions being worked which were set at the last examination for Candidates for Managersin this Province, the barrier or are still standing. didate you mention is only one of many who were a little there is a reliable rule I should like to know it lest some more than puzzled. I make no pretense at answering day I should have to face a dilemma of this kind. We hope of getting the questions thoroughly thrashed out. Take the question on the safety valve. It is workable but the answer obtained from the data given is ridicul ously small. Of course the question tests whether the student understands the method of working the thing out but to say the least the question is hard and given in vague terms. The following is the formula for work-

weight.

Let R = distance from valve to fulcrum, i. e. the short arm.

Let P = blow off pressure in lbs per sq. inch. D diameter of valve.

" W welght.

" B weight of lever.

weight of valve and connections.

R eq. is to be found.

Peq. 80 lbs,

D eq. 4 inches, W eq. 71 lbs.

B) these together eq. 12 lbs, so the student is left V) to suit himself how he divides the weight be-

V eq. 4 lbs. 30 + R

- taking bar to be uniform.

This is rarely the case but as no information is given at to where the centre of gravity will be this is just as likely to be correct as guessing it.

 $\therefore 4^2 \times 7854 \times 80 \times R = 7\frac{1}{2} \times (30 + R) + 8 \times 30 + R$ $\begin{array}{c} .. \quad 1006 \; R = 215 + 7\frac{1}{2} \; R + 120 + 4 \; R + 4 \; R \\ ... \quad 1006 \; R - 15\frac{1}{2} \; R = 335 \end{array}$

· 990½ R = 335 R = .3383 inches,

This is a little better than 1 of an inch for the length of the short arm of the lever. Surely there is something wrong somewhere. It may be that I did'nt work the question right, but if not I would be glad to be shown the correct way, that is why I have worked the ques-

If his bore enable the pressure to be ascertained.

- = head of water in ft.

.434 I hope some one will answer the second part of the question as I would like to know what reliable rule can be applied in such a case. Plans have in many cases proved unreliable and accidents have occurred through depending on them, so that method is out of the question. We cannot depend on the distance of the break or breaker from the actual holing because this will differ in different coals and will also differ according to whether the old workings are tallen in close to the edge of You are certainly not the only person who has had rea- the distance that water will find its way through the could be sure of eight yards and a little more as the thickness of the barrier, how are we to find out how much tuat little more is?

The question on the dam is'nt a question at all, it is simply a statement of certain facts relating to the dam. Nothing is asked for at all and any student who simply ignored the who'e thing would be justified in doing so, and would be entitled to any marks that were allowed. Let L | length of lever i. e. distance fulcrum to that is what it was intended to ask for but still the question part was omitted. This was probably due to a mistake and would hardly be intentional. This question is easily worked if it is the thickness that is required,

PRAISE FOR INTERCOLONIAL RAILWAY.

Y weight of varie and connections.

C distance of centre of gravity from fulcrum.

Canada's famous train, the "Maritime Express,"

Then $d^2 \times .7854 \times P \times R = (W \times L) + (B \times C) + (V \times R)$ the I. C. R. through train between Montreal, Quebec, Moncton, St. John and Sydney, is earning fresh words of commendation from distinguished persons. According to the St. John Globe, the address of Rev. Dr. Grier-son, returned Missionary from Korea, was one of the features of the session of the Convention of the St. John

Dr. Grierson spoke on the recent international studtween the two, and if he makes a mistake whose fault is el over six different railway lines to reach Nashville, but found none so well appointed and comfortable as the I. C. R In addition to this the Montreal Herald of May 30th, has the following expression of epinion of a well known professional man:

Talking to a reporter recently a well known professional man who travels considerably remarked: "I always enioy the trip by the Maritime Express between There is more than a mere sense of comfortable travel, there is something that always makes me thoroughly contented, and never do I feet that irritability and impatience one is so apt to feel when taking a railway journey of long duration. The splendid cars and accommedation, the inviting meals and prompt service on the dining car contribute greatly to this feeling, I know, and the passing view of so many scenes of various beauty is southinfi to the senses. But there is something more, something I can hardly describe, but am inclined to attribute to the social atmosphere. You meet all classes and conditions of men while travelling but it seems to me that on the Maritime In the question on the bore-hole striking water from mong people of a pleasant and interesting type. Some Express one always finds himself a fellow-passenger aold workings the first portion (a) is easy enough. A of my happiest hours have been spent on this journey."

Maritime Mining Record Eden

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

The RECORD is devoted to the Mining—particularly Coal Mining to gratify.

The RECORD is devoted to the American Provinces.

Industries of the Maritime Provinces.

Advertising rates, which are moderate, may be had on application Advertising 81 00 a year.

Single Copies 5 cents.

years is information. If Mr. M. is a little sour and sulky it is not to be wondered at. So might any man be who had a great craving for information which no one seems willing to help him

PUBLISHER. R. DRUMMOND.

STELLARTON, N. S.

JUNE 13rd 1996

= Rubs by Rambler.

The Herald of a late date had a letter from Mr Milner in reply to the letter of S. Cunard & Co., bearing on the price of coal, and some erroneous statements made by Mr. Milner. Mr. Milner's letter cannot be called strong-indeed, it is a begging letter. He calls upon S. Cunard & Co. to show their books so that he may obtain the prices of coal for the past score of years. Mr. Milner states, quite cooly, that if he was wrong in his statement as to the price of coal sold by Cunard and Morrow a quarter of a century ago, then this is the first time that any of his multitudinous assertions have been assailed. Every statement, he asserts, he made in the past has not only gone unrefuted, but unchallenged by coal barons. Is that so? I wonder if it was Mr. Milner who said that the people of Montreal, the common people—bought their coal cheaper than those living nearer the mine, say in Halifax. Was it Mr. Milner who said that coal cost the manufacturers of Nova Scotia more than it did those of Montreal? Was it Mr Milner who said that coal cost in Nova Scotia a dollar a ton more than in Montreal? Was it Mr. Milner who conveyed the impression that the coal companies retailed coal in Montreal at a less rate than in even Sydney? I have the suspicion that it was, and if that suspicion is well founded then Mr. Milner has been very very often astray in his statements. I wonder if Mr. Milner is quite fair as a disputant. When he makes a statement, or when he makes the statement that coal sold in Halifax twenty odd years ago at \$1,83 per ton, he brought forth day. Ten out of the seventeen directors, were no proof and gave no details; he just saw some present, including Senator McKeen and W. B. thing in the papers and did not tell us whether the coal was slack, run o mine or round; whether it was f. o. b. or delivered, and or whether it was by the wholesale or retail. He of course left the inference that it was \$1,83 in Halifax retail, and he asked us, without more ado, to accept his statements. When, however he is told that the firm he referred to never sold coal by retail; when he is told that coal now in Halifax costs sixty cents only per ton more than twenty years ago, he will not believe it, but calls on S. Cunard and Co. to 'show your books.' That is however what Cunard & Co. won't do. They, like the operators, even in sight, and if it is that way with the pre-have caught on, and have come to know that ferred, what is to be said of the common. It may what Mr. M has been looking for for the past two be good enough to hold, but the grip must be a

Since writing the foregoing I see another letter-a paid adv. in the Herald-from friend Milner. He is still thirsting for information. It seems to me he is shifting his ground. Instead of flying at the threat of the Dominion Coal Co. and calling it bad names, combine, monopoly, etc., he has turned his attention to the coal dealers and says they are parties to a combine formed in restraint of trade. This is terrible. The effects of this exposure must be to make the dealers shiver in Mr. Milner alleges that the price of their shoes. ecal in Halifax is to-day three dollars per ton dearer than in 1878, and in proof quotes an advertisement of the agents of the G. M. A. inserted in the Halifax papers twenty-eight years ago, offering coal at \$2,00 per ton. Mr. Milner assumes this is the retail price though he was informed that Messrs Cunard and Morrow never retailed coal. The adv. offers coal at \$2.00 per ton. price f. o. b at N. Sydney is to-day \$3.00 per ton. therefore the increase in price is only \$1,00 and not \$3,00 per ton. Mr. Milner wants to know why coal should have gone up even one dollar a ton. He might be asked in return if the price of very many articles has not gone up greatly of late years. Twenty-eight years ago common labor in Cape Breton commanded eighty cents per day. At this time the companies cannot get all the labor they want at nearly double that figure. Should not this one item alone satisfy Mr. Milner that there has been justification for the increased price of coal. Mr. Milner puts the cost of delivery of coal in bags at 40 cts per ton. It costs fifty cents a ton to deliver coal in Stellarton in open carts. If it were delivered in hundred-weight bags it would not be delivered for less than a dollar a ton. It is very curious that Mr. Milner, who is but a small consumer of coal, and is not engaged in a political fight should be so solicitous over the price of coal, while the larger consumers, from their silence, are seemingly con-

A meeting of the directors of the Dominion Iron & Steel Co. was held in Montreal last Mon-Ross from Nova Scotia and Mr. Dimock, Mr. Whitney's brother in law, of New York. What was talked of at the meeting was not given out. Some satisfactory statements must have been made as the Star learns that the debt balance which stood last year at \$1,021,708 has been reduced to about \$300,000. However satisfactory the statement at the annual meeting may be, holders of stock should not be over sanguine as to an early resumption of dividends on preferred. Indeed Mr. Plummer, in a statement, leads one to believe that back dividends on preferred are not

tight one. I was talking, not long ago, to a couple of gentlemen who professed to be very well acquainted with the inner affairs of the Steel Co. and their opinion was, and it was expressed in no halting terms, that it would be many a long day before the common would see a dividend whatever might happen to the preferred. Their positiveness so impressed me that I took profits. Should it go to forty, as predicted, before the 1st. of next January, they will hear about it. It is a pity that there is not sufficient demand for rods to keep the mill fully working. It is said Canada

Talking about Steel and Coal the other day a party asked a second party if he had been sacrificed like many others, at the altar of Senator Cox; had he helped the senator to get rid of his cheaply obtained stock at a high figure. The reply came quick and sharp that he did not believe that any one of the directors of the Steel or Coal Company, except perhaps Presidents Ross and Whitney knew any more about the actions of the stock market than any ordinary outsider, or ordinary shareholder in the company. ther added that had some of the directors known how things were going they would have sold at seventy six and bought at 6 to 8. The fact that they didn't get out is proof that they knew nothing about how things were shaping. ing about how things were shaping. One of the N. S. directors increased his holdings around forty under the helief that the stock would follow the track of Dominion Coal to the hundreds. He was misled by the information he had obtained at the works. Curiously, and it goes to emphasize this exoneration of the directors, from the charge that they made money at the public expense, we all read the other day how Senator Cox confessed to the Insurance Co. of which he was president, having bought coal stock all the way from 75 to 139. The buying at 139 may have been to steady the market solely, but the buying at 75 was surely because Senator Cox thought the investment a good one. how far coal tumbled. The average price to the Insurance Co. of the stock which it holds is over 100, and yet the Senator believes that by and bye far more than a hundred will be realized for it. That of course 'all depends'. If the company abandons its fantastic notions as to construction, and is content with unpretentious, substantial, serviceable, if unornamental, and not over elaborats, surface works, no doubt dividends will come in a short time and stay indefinitely. I heard a mine manager say not long ago, "If ever I open up a mine in C. B. I will have no steel bank heads, but a good, strong, wooden one of the old type. 'And I am not so sure, but that would be the more economical and commendable

We have been told repeatedly within the past few months that the United States is the place to buy cheap bituminous coal, just as Nova Scotia, so it was said, is the place for dear coal. Well, it is one consolation that Halifax is not the only city on this continent that has to pay sweetly, as alleged, for its coal. There are towns in the United States who pay so high a price for coal, that Bullian spices are chosen in comparison. that Malifax prices are cheap in comparison.

The town of Brookline, Mass, contracted for George's Creek, or New River coal at \$6.67 p. ton, Now, Brookline is a smart little place and growing quick. If coal as a rule costs as high as \$6,67 then it is a wonder it is progressing at all. Halifax is not progressing because its coal costs too high, though it costs the Halifaxians much less than it does the Brookliners. Perhaps it were better that Halifax bore the ills she has than agitate for others that she knows not off-cheap to keep the mill rully working. It is said camed which is a progressive city costs from \$4.10 to \$50. requires fully more rods than the mill can pro00. So after all coal is not so very chap in the United States as some may have been led to be-

THE DRUMMOND COLLIERY.

BY THE EDITOR.

I had long intended to pay a visit to the Drummond Colliery, for two reasons chiefly, to renew old acquaintances, even if the associations were not all pleasant, and to be able to say I stood at the furthermost point in the longest coal mine slope on this or any other continent.

Though I knew Mr. Blue the manager was a host in himself I took the liberty of inviting Mr. Marshall, the Dalhousie Mining Instructor to take in the trip with me, which he was much pleased to do as he is eager for adding to his information. Before leaving Mr. Blues office it was hinted that the place would be convenient for divesting one of pipe, tobacco and matches, as the former and latter were strictly forbidden to be carried into the mine. This the visitors did or thought they did. On going for our safety lamps, Mr. Quigley who has charge of the lamp house and has acted in that capacity as far as memory can reach, though he still looks far from ancient, can reach, though he still looks far from allerent, the question was put to us before our request was complied with "Have you any matches." In proof that the regulation had been already complied with, finger and thumb were thrust into vest brought forth, and that match to be there after an honest attempt to get rid of all combustibles, I have come to the conclusion that vest packets should form no part of a miners outfit.

While waiting for the riding rake at No. 2, one had opportunity to see the speed at which the boxes flew up past from the mine to the bank head. If a thousand tons are to be hoisted in boxes containing about thirteen hundred weight in nine, or rather eight, hours from a point distant 11 miles, and up a grade of 1 in 3½, the hoisting must be rapid. It takes about five minutes for a rake going at the rate of 20 miles an hour to reach the surface from the end of the slope. There are sixteen boxes on a rake the weight of coal on each trip being about 12 tons. While we are waiting a rake passes down the main or No. I slope, on which there are no fewer than eleven trolleys all loaded with pit timber. quantities of timber are sent down the mine daily. Immense It is greedy on props, and in order to satisfy the requirements no fewer than 2000 pieces five feet long and 500 pieces from seven to twelve feet long go into the mine daily

Manager Blue obtained his experience in min-

ing at Springhill, and as I also was at Springhill en 20 ft. wide. Only ten feet of this is taken the referred to. Mr. Blue asked how many of my old start, were still this side of the bar. As a lad he dirt or rock to pack with. Looking at these said he remembered becoming a subscriber— chucks one can scarcely realize that they ever That partly accounts for Mr. Blues great success That partly accounts for Mr. Blues great success were six or seven feet high. All that can be seen as a mine manager)—I told him I thought there of them is about three feet, and in some places were few left, and he added there cannot be more than one or two. On looking at the old list afterwards I found that two or three still living had dropped off the list, while all the others, except perhaps four, had 'crossed the bar'-and in, to look back, -so short a time.

On the plea that I had not given intimation of our coming and that therefore no preparation had been made, we were invited to tumble into a coal box. That was all right; a coal box has its advantages. got our "pit een"-that is our eyes had become accustomed to the dark and to the small light which made the surroundings barely visible. There are sixteen lifts or landings in this mine, the packs come tumbling over. that we could go no further by rail as the travel- as it is." ling road has not yet been extended, but will soon be-to the bottom. From the thirteenth landing we travelled to the sixteenth when Mr. Blue said it forty feet distant. From daylight to where we coal. stand the distance is 6,840 feet, and the cover ovon the roof is therefore very great and that is as one travels the main ways, Some of the booms are bent into the shape of triangles, and are splintered, and yet it is said that these bent and splintered timbers are at their best. They cannot break but must be drawn apart before the roof can set-In the lower workings of the mine, where there has been little opening out, the roof acts like sand being soft and powdery. Where a larger amount of coal has been taken out the roof is firmer. The softness in the roof in close places is due to the action of escaping gas. there will be a solider roof, and, the gas having all escaped, there will be what is known as dead harder to work The system of mining employed

for a number of years "old times" were naturally full height. A space five feet on each side has only the top coal taken, and on the top of this is subscribers, that is, those who subscribed from the built the chucks, of solid timber, as there is no chucks one can scarcely realize that they ever not over two. The weight has 'squshe I'them out of recognition. A stick eight inches round when it was put in is flattened to two or three inches. And the 'squshing' process is going on day by day, and will go on until the packs are almost invisible. Not only does the roof settle, the floor rises. Take the bottom of the main slope. We stood a little way up and were shown what a short time ago was the bottom twenty feet further down, and it was three or four feet higher than where we There is no jostling for seats; and stood. The weight had raised the floor to that exadvantages. There is no josting to the squatted in the bottom no matter what the pitch tent. Looking at all the timbers forming the of the seam, there is a brace for ones feet. We pack, I asked myself aloud "Does it pay." Mr. are not going at a twenty mile rate; in lowering Blue hearing the question said "You may well ask men the engine moves slowly. The descent took that, but I suppose we would not be working if about a quarter of an hour for which I was grate- at a loss." Well then I asked "If it pays you to ful. Before the rake reached the bottom we had pack with timber seven feet high, why not take all the coal out and pack from roof to pavement. The question showed I was not 'up' in long wall. 'If we did that' replied Mr. Blue 'we might have Indeed as you We got off at the thirteenth for the good reason may notice some of them incline to topple over

"And how will you get the bottom coal?" "That is an after consideration, but by the time we have got to our boundary, and are pre-"Come and I will show you the lowest part in the pared to retreat, I expect roof, packs, and timber mine." We are not at the face, we cannot get to will be all one solid mass, will form a new roof, it on account of water and debris but we can see under which we will work and recover all the

Calling to us at a particular spot Mr. Blue erhead, that is the thickness of the strata to the asked us to look at the roof, saying "Look at these surface, is in round figures 1900 feet. The weight and then you will be able to answer those who say that iron booms are a delusion and a snare. made manifest by the appearance of the timbers We loked and saw several sixty lb. iron rails cut into boom lengths and supporting the roof They were bent, but stood the burden well, and but for the cost would be preferable to wood.

The Drummond is a clean mine to travel. No mud was encountered and only one pool of water near the landing at the bottom. The bulk of the output is from the fifteenth lift. Here the south level is in 3000 feet. At the extreme end of it I asked Mr. Blue where abouts we were. He said we were a little south of the Stellarton reservoir. And One could scarcely realize this. Mr. Blue is of owing to this action of the gas the coal also is opinion that the Drummond seam is independent easier to work. When it comes to the time when of the seams at Stellarton. He thinks it may the bottom coal now left has to be taken out, continue down under Stellarton and finish on the east side of the East River.

The ride down to the thirteenth landing was coal, that is coal, without spring in it, and of course not unpleasant, and the walk from there to the sixteenth was not irksome, though a slip was is a modification of long wall; it may be called made occasionally, but the walk up to catch the long wall with a step. At the bottom of the slope rake was a corker, to one who had not travelled and in the lowest lift the coal is twenty ft. thick, up a slope in many years. The writer set the and looks for the whole height of excellent qual-pace and called a halt twice, and this was not ity, there being so far as I noticed only two inches done solely out of commiseration for his companof a bastard coal. In the upper lifts the coal is ions. As we rested a man ran up past to make say 13 to 14 leet thick. All of this height is not certain of not missing the rake. Said one of the now being taken out, only the half or about seven three: "He should not do that. The over quick feet. The places, levels, balances, bords, are driv- walking or running in the mine is responsible for

the asthma of which many miners complain, yes, and if there is consumption among them it is

Going up we got a seat in the Pullman. Riders on the Pullman have the privilege of dangling their legs outside the box, while in the other cars they are forced to sit in the old way our forbears

On reaching the surface I had one regret, which was that one or two of those who have clamored loudest within the past year about the price of coal had not been down the mine with us. A trip down the Drummond mine is all the answer Mr. W. C. Milner and Mr. Alex McNeil will require in answer to their question:—"How does coal cost so high in Nova Scotia." might alter the question to this, "How is it pos-Then they sible under such conditions to mine coal and sell it at \$3,50 and under on cars at the mines.

The Drummond, to sum up, is a nice little mine, one of the snuggest in Nova Scotia; and its management could not be bettered. without doubt, is a capable mine man and he and his staff are not only working coal at the Drum-mond, they are doing the next thing to working The Drummond is doing splendidly, and what else would one expect seeing all those in leading authority-Floyd, McDougald, Blue, Sutherland—all a happy and united family,—and the John McDonald's below, and the Jack Mc-Donald's above, and the Haymans and the Stewarts, the McNeils, the Hendersons and the Grays and the Saunders and Tom Floyds, animated with the proper 'esprit de corps, strive with one another in demonstrations of loyalty. way one is quite safe in leaving pouch and pipe in Blue's office, I got mine on my return without any visible diminution in the bulk of the former, but as for leaving matches at Quigleys, that is a different story. The one I left there must have been confiscated, as it never came back.

There is evidently a lull in coal mergers.

The probability is that no work will be done tpis year on the proposed railway from Stellar-

The shipments of the Nova Scotia Steel & Coal Company for May were the largest on record with the exception of those for July of last year. The shipments for May show the fine increase of 23,000 odd tons over those for May of last year.

Fridays' Halifax Herald says:

At last night's meeting of the city council, W. P. Buckley, of the Mabou and Guif Coal Company, was awarded a contract for 200 tons of

Mr. Milner's furious attacks on the Dominion Coal Co. who he alleges are sinners—as regards the price of coal—above all companies doing business in Nova Scotia—do not seem to have had any influence on the officials of that company. They still persist in refusing to enter into details as to cost of production etc, etc.

The following addition should have been made to the I. C. R. time table on page 3, but were ov-

No. 85 Leaves for Sydney 17.10 " Halifax 19.50 No. 85 arrives from Halifax 17.05 No. 86 Sydney 19.40

The Phillips Mine and Mill Supply Co., of Pittsburgh Pa, are the latest addition to our list of advertising patrons. The mine and other car wheels supplied by this firm to some of the large collieries in Cape Breton give every satisfaction.

SUBMARINE COAL MINING.

The action of the officials of the New South Wales Mines Department in stopping work in that part of the Stockton Colliery known as Garthat part of the stockton contery known as our-ett's heading is to be highly recommended, though it will have the regretable effect of restricting the company's field of operations. question lies far under the pacific ocean, and it is a very necessary provision of the Coal Mines Regulation Act that in such ocean workings there must be a thickness of not less than 120 feet of rock strata intervening between the workings and the ocean bed. The State law, vide Australlian Standard, has been copied in this respect, as in most others, from the English law, which owed its form in this particular to a terrible disaster resulting from the working of an English colliery the German Ocean, the sea breaking under through the 90 foot cover under which the workings were being carried on, and drowning nearly 100 of the men engaged there. For the past two or three years there has been talk throughout the Newcastle district of some of the mines having been worked into a dangerous area, but much of it has been founded on no very sound basis. hear the swish of the propellers of the ferry boats as they draw up to or leave the wharf overhead, or to hear the thud of an anchor dropped on to the sea bottom, does not necessarily mean that the workings are within dangerous proximity to the bed of the ocean, for such sounds have been heard at quite safe depths. the nature of the good rock filling the intervening space; and this is a matter which has to be taken into consideration in determining the degree of safety in submarine workings. Ground may be safe at a depth of 80 ft. in one place, and unsafe at 100 ft. in another. It was wise and reasonable to take a depth of 120 ft as the minimum to be insisted upon.

pany, was awarned a contract for 200 tons of the various know, as he pushed his drives seaward, how much manager might know, as he pushed his drives seaward, how much manager might be a contract of the cont The harbour and ocean bed were very carefulor how little rock was overhead. Recently in the Stockton colliery some doubt had grown as to the nature of the roof, and borings were instituted to ascertain its character. The result was the dis to ascertain its character. The result was the discovery that the cover-consisted of only 80 feet of sandstone, with nearly 150 feet of alluvium. There not being the required thickness of solid rock, the stoppage of work was at once ordered and was promptly carried out.

AROUND THE COLLIERIES.

Coal Shipments MAY 1906.

DOMINION COAL COMPANY, LTD.

-Output and Shipments for April 1906.-

| | -Output- | Shipments |
|--|---|------------------------------|
| Dominion No. 1 Dominion No. 2 Dominion No. 3 Dominion No. 3 Dominion No. 5 Dominion No. 6 Dominion No. 7 Dominion No. 8 Dominion No. 9 | 49 778 52 186 53 291 50 761 55 686 7 859 15 024 22 761 36 431 | 330 015 |
| Shipments M Increase M | 323 777 Iay 1905 Iay 1906 | 330 015 274 485 55 530 |
| Shipments 5 | mos 19061 mos 1905 mos 1906 | 068 585 |

INTERCOLONIAL COAL CO.

| Shipments " | May | 1906 |
|-------------|-----|-------------|
| Increase | ** | 1906 4 766 |
| Shipments 5 | 66 | 1906111,555 |
| Increase 5 | mos | 1906 40 159 |

INVERNESS RAILWAY & COAL CO.

| Shipments " | April | 1906 1905 | 10 885 |
|------------------------|-------|--------------|------------------|
| Increase | ** | 1906 | 5 313 |
| Shipments "Increase | r mos | 1906 1905 | 32 334 28 505 |

| " | May | 1906 1905 | 22 124 |
|-------------|-----|--------------|------------------|
| Increase | ** | 1906 | 5 005 |
| Shipments : | mos | 1906 | 54 458 |
| Increase | " | 190 5 | 39 724 14 734 |

NOVA SCOTIA STEEL & COAL CO.

| Shipments | May | NEY MINES.— 1906 | 1 |
|-------------|-------|----------------------------|---|
| Increase | . 4.6 | 1906 | |
| Shipments 5 | mos | 1906180 813 1905122 019 | |
| Increase | ** | 1906 68 794 | |

ACADIA COAL CO.

| Shipments | May | 1906 1905 | | 460 377 |
|-------------|-----|--------------|----|------------|
| Decrease | 64 | 1906 | | 917 |
| Shipments 5 | mos | 1906 1905 | 98 | 447 |
| Increase | * 4 | 1906 | 7 | 982 |

CUMBERLAND RY, & COAL CO.

| | | D RI. & COAL | CO. |
|-------------|------|--------------|---------|
| Shipments " | May | 1906 1905 | 33 912 |
| Decrease | 44 | 1906 | 4 345 |
| Shipments 5 | mos. | 1906 1905 | 190 215 |
| 1ncrease | ** | 1906 | 33 720 |

Mr. Hugh Fletcher, of the Geological Staff has left his winter quarters at Ottawa and come to Nova Scotia. Mr. Fletcher's special work will be to make reports on coal and iron. He will visit the scene of the lately reported coal discovery in Kings County. It is to be hoped that Hugh has profitted a little by late experience, and if he goes to take samples of the coal he will go alone and surreptitiously. At least he must not take eighteen samples openly, or else the owners of the areas will at once adduce his so doing as proof positive of the great thickness, large area, and splendid quality of the coal.

The Editor intends making his semi annual trip to Cape Breton County collieries next week. He is in the happy position of knowing all the managers of all the mines on the south side—the new man at Broughton excepted—from pest master McVey of the Reserve, to outside watchman—this position generally falls to the latest initiation—Robertson of No. 6. And he has exchanged everything but blows with the managers on the northern side,—with the exception of he of Sydney No. 3,—and to know Tom' Brown and John Johnston is to know an excellent combination.

AROUND THE COLLIERIES.

The new wash-house at International is completed. The officials are cleaning things up in good shape.

Inverness collieries are overstepping all past records. The output and the new system of work is very satisfactory.

Dom, No. 6 is to be worked on the long wall ystem if the present experiments along those lines prove successful.

The new houses being built at Dom. No. 1 by the Dominion Coal Co., have a beautiful location being very close to Lingan Sand-bar.

There is a good opportunity now to discuss spontaneous combustion in coal heaps: There is no fire in the heaps although they are large. There is

The "labor problem" would be quickly solved by the Dominion Coal Co. if they turned one of their large machine collieries into a hand pick

The new compressor at Reserve will be ready in two weeks. This will greatly help the machine men who have been short of compressed air for a long time.

Reserve men are jubilant over the impovents recently made on the surface. The new ments recently made on the surface. wash house, the whitewash on the scales house, and the attention given to the safety lamps.

As will be noticed from announcement in another column the Board of Examiners for granting certificates to colliery officials will hold the annual examination, beginning 26th of this appearance of its underground nature.

Everything is going smoothly at the Interna-nal mine. There are 115 pairs of miners emtional mine. ployed and the output per day has now reached nearly 1200 tons. The output on the 23rd. May was 1196 tons. This must be considered very good for one rope with one small box.

Allan McVicar, formerly of Port Morien, well known and respected all over the mining districts of Cape Breton, was suddenly killed in Dominion of Cape Breton, was suddenly killed in Dominion compare involving with last year in this respect.

No. 2. Mr. McVicar was a shiftman and very efficient. While preparing to put up a boom a est care be exercised by officials and men. It

The premises around the wash plant at Morien station look very neat. This is in line with Manager McSween's tastes. John was once the Associate Grand Master of the P. W. A. and went to the Government mining schools, hence his love of system and good house keeping.

The Dominion Coal Co's shipments for May were the largest May shipments on record, and have only thrice been exceeded in any previous month, viz in June 1904 and 1905 and in July 1905. The coal of the angle deeps Dominion No. 1, The increase in shipments for the five months which is submarine, is the best looking and no ending May is only six thousand tons short of a quarter of a million.

Last year a few Old Country miners moved their families back again to Britain. Among the late arrivals are some of those who left at that time. Having lived in Canada once and enjoyed its larger liberties and social equalities, Britain became too small to hold them, and so they re-

The Amherst News asserts that Mr. Pipes, after his election, will not long remain a member of the government, but will move to a higher posit-As no hint is given as to what that position will be, the inference is that it is a judgeship. If Mr. Pipes leaves the commissioner-ship it will not be an easy matter to get as strong a man to fill his place.

The Morien wash plant turns out 2,000 tons of washed slack daily. Its dry bins hold 1500 tons. In the frosty weather of winter from 600 to 800 tons of washed slack is loaded in hoppers in the short time of 10 minutes. Hasty loading, hastier transportation, unloading and reloading into steamers is necessary to prevent this wet material in zero weather from assuming for a time the

The Emery machine rates for punchers were ity that the reorganization of the Port Hood Coal The Emery machine rates for punchers were my that the reorganization of the Port Hood Coat settled on the basis of height for the other Dom- Co. has been completed, and only awaits confirminion collieris. This only applies to the leading ation of the courts. It is said that suitable transportation will be sought to fill the orders for coal now on hand The new company expect to rush things and attain in a short time an output of over 200,000 tons a year. These are pretty big figures for Port Hood, but these are the days of

Accidents attended with loss of life have been frequent of late in the C. B. mines. If deaths from falls of coal etc. continue at the same rate as during the past two months, this year will not compare favorably with last year in this respect. 10. 2. Mr. McVicar was a shiftman and very etc. In these rush times it is imperative that the great-ficient. While preparing to put up a boom a est care be exercised by officials and men. It large stone, part of which rested on a boom in would be a sorry thing to say that increased outlarge stone, part of which resided on a soon in would be a sorry thing to say that increased outplace, suddenly dropped falling on Mr. McVicar, puts can only be obtained by an increased sacri-

ELECTRIC, TRACTION.

The Windsor, Essex and Lake Shore Rapid Railway Company have decided that their line shall be operated by electricity. This system will connect Windsor, Kingsville, Leamington and Chatham, and residents of this populus section will ride on one of the most complete inter-urban roads on the continent.

After careful investigation and comparison with steam and with the ordinary direct current systen of electric traction, the management found that there was a marked difference in the cost of equiqment-that the operating expenses would be less-and that cars could be run at a higher speed-by the use of the single phase alternating current system as now furnished by the Canadian Westinghouse Company, than with either of the other methods,

For this new road, the Canadian Westinghouse Company are furnishing a similar type of ringle phase equipment to that designed for the Grand Trunk Railway for motive power in the St. Clair tunnel-as well as for the New York, New Haven and Hartford road for the electrification of their main line out of New York City.

One of the most remarkable strikes of coal miners in Illinois came to an end June 1 by the formal ratification of a two years' treaty of peace, or until March 31st. 1908, between operators and miners at Springfield, Ill. The pact of amity was a compromise against which radmight. They met severally lately, and in the meeting amount to \$100,000. of the miners the settlement plan was ratified by 257 affirmative votes against 207 in opposition. The action affirmative votes against 207 in opposition. The action

For some months past, the officers and engineers of the operators was more nearly unanimous, but nearly the Montreal Street Pollway Company have been in congainst the measure. The two most conspicuous consessions made by the Illinois miners in the agreement just concluded were: first, the complete assumption of the expenses entailed upon the operators by the shot-firers' some of the western operators had set their hearts. Some change in the machine mining differential was desired. And of perhaps equal importance a screened coal basis was sought. But these claims were waived in the interest of immediate peace, and with the concessions made by the miners the scale of 1903 was adopted world, in everything electrical.

and an end given to the inactivity which has lasted for 60 days .- (Coal Trade Journal.)

Great improvements necessary by the enhanced demands of the Dominion Exhibition, are being made on the grounds at Halifax. The Fisheries Building, a splendid up-to-date structure, has this season been added to the departmental adifices. All the other buildings will be greatly extended, and the capacity of the Grand Stand will be doubled, making it capable of accommodating 8,000 persons. The floor space of the different departmental buildings for the big Fair will total 183,-000 square feet. Steps have been taken at once to expropriate an acre of additional land adjoining the Exhibition grounds, thus affording an opportunity to erect a new main entrance and commodious office building.

Included in the race programme for the great Meeting to be held during nine days on the Exhibition track will be six Stake Races, entries for which close on June 15th., at which date \$5,00 or 1% of the entrance fee will be payable. The aggregate of purses for the races is \$9,000, giving \$1,000 daily in prize money. The exhibition track has this season been graded, according to the original plans, topped over with sifted earth, and made what is believed to be the fastest in the Maritime Provinces.

The Dominion Exhibition will run for two weeks, icals in the ranks of both parties thereto opposed their September 22nd, to October 5th., and its premiums will

sultation over the question of improvementsr After careful consideration it was decided that the increase in traffic justified the purchase of a 1,000 K. W. Westinghouse Railway Generator, as well as three 500 K. W. bill and drastic penalties for quitting work at any mime which promise to be the easiest and most comfortable in the State in violation of the State agreement. of any in Canada, twenty quadruple equipments of mothers are the state in violation of the State agreement. ors were ordered, and fifty sets of Westinghouse Air Brakes with motor driven compressors. The fact of the Montreal Street Railway adopting the Westinghouse apparatus and intrusting the making of this costly equipment to the Canadian Westinghouse Company is clear evidence that Canada is now able to compete with the

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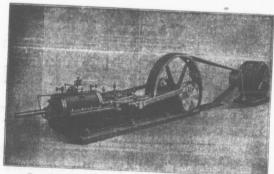
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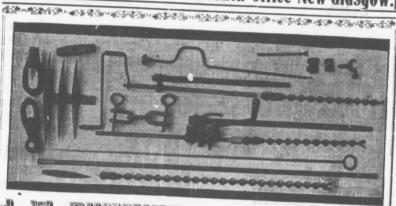


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Homestead Regulations.

Any even numbered section of Dominion Landa in Manitoba or the North-West Provinces, excepting is and 35, not reserved, may be homesteaded by any person the sole head of a family, or male over it's years of age, to the extent of one quarter section, of 10°s acres, more roless.

An application for entry or inspection made personally at any Sub-agents office may be vired to the local Agent or Sub-Agent.

An application for entry or inspection made personally at any Sub-agents office may be vired to the focal Agent by the Sub-agent, at the expense of the application is to have priority and the land will be held until the necessary papers to complete the transaction are received by mail.

In case of "personalito" the entry will be assummarily cancelled and the any place of the control of the control

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS. SYXOPSIS OF CANADIAN NORTH-WEST MINION (REGULATIONS, COAL, Coal Load lands may be purchased at 80 per agree for soft coal and #30 for authractic. Not more than 250 acres can be acquired by one individual or lected on the gross output.

QUARTZ. A free miner's certificate is granted upon payment in advance of 85 per anium for an individual, and from 85 to 580 per anium for a company according to capital.

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A free-miner, maring and a state of the property of the miner state of the state of

anie yearly.

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Interior.

The lesses shall have a dredge in operation within one season from the date of the lesse for each five miles. Rental \$10 per annum for each mile of river leased. Royalty at the rate of 21-2 per cent collected on the output after it exceeds \$10.00.

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



Mines Office. **HALIFAX, MAY 30, 1906**

AN EXAMINATION for granting Certificates of Competency to Managers, Underground Managers and Overmen, will be held at Springhill, Stellarton, Sydney and Mabou, beginning June 26, 1906. All applications for examination and necessary testimonials, must be

in the hands of the Secretary, at Halifax, not later than June 10th., as they will be examined by the Board on June 12th.

Further information as to place of examination, etc., can be obtained on application to the Local Board.

E. GILPIN, Jr., Secretary Board Examine

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| Read I | Read Down STATIONS. | | Read Up | | | p |
| No. \$2 a, m | No. 54 p m | STATIONS. | | No 5 | | |
| I. 11 10 S 11 16 A 11 35 | L 5 55 8 4 00 A 10 | P. TEPPER JUNCTEDS PORT HANGESHERY PORT HASTINGS TROY. CREIGNESH CATHERINE'S POND PORT HOOD GLENOVE MAROU GLENOVE BLACK RIVER STRATHLORE INVERNESS | ASLAFSFFFLAFSFFSL | 10 55 10 53 10 40 10 30 10 20 10 08 9 53 9 35 9 22 9 06 8 45 8 15 8 05 7 50 7 37 7 30 a m | 8 | 3,35 3 27 3 10 |

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|---------------------|----------------------|------------|---------|------|
| CARBON | 80 18 | per. cent. | | cent |
| HYDROGEN | · · · · · · · · 5 II | ** ** | 5 22 | 66 |
| OAIGEN | | ** ** | 6 72 | 6 |
| MILKOGEN | 6 | 66 66 | 1 27 " | 64 |
| SULPHUR | 0 =6 | ** ** | 3 07 " | 66 |
| ******************* | 0.00 | ** ** | 4 10 " | 66 |
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