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New Series Vol. 9 No. 22

May 22nd. 1907

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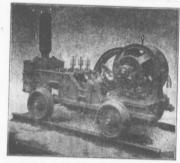
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Licenses are issued for prospecting for Gold and Silver for a term of twelve months. They Comprise areas 150 by 250 feet, and any number can be obtained, at a cost of 50 cents per area. Leases of any number of areas can be obtained, at a cost of \$2,00 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 \$19.00 per oz.

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-LICENSES TO SEARCH-

over five square miles for eighteen months, tost \$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 All titles, transfers, etc., are recorded free of charge by the Department. The royalty on ceal is 10 cents per long ton, and on other ninewsk in proportion

minerals in proportion

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The best for Foundry or Furnace, Locomotive or

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a door that can be made tight against air and accommodate 24 men for a reasonable time while water by means of rubber fittings. Each chamber awaiting rescue.

has three cylinders of oxygen, sufficient to enable thirty men to breath three days. Respiratory aplarger mines of Austria have prepared a so-called chamber to reconnoitre or signal. In the safety safety chamber underground, which is a strongly chamber there are foods, medicines, and first aid constructed retreat having a single entrance with appliances. The standard room as here built will appliance on the standard room as here built will

# TRIFIME MIYIYG RECO

Vol. 9, No. 2. Stellarton, N. S., MAY 22nd, 1907. **New Series** 

PROVINCIAL EXAMINATIONS, 1906:

SCHOLARSHIP, - MANAGERS,

Ques. 1-If 252 men can dig a trench 210 yards long 3 wide and 2 deep, in 5 days of 11 hours each; in how many days, each 9 hours long, will 22 men dig a trench 420 yards long, 5 wide and 3 deep?

Ans. I-

The first trench contains 210x3x2 = 1260 cubic yards. The second " 420x5x3=6300

22: 252:: 55: Number of hours required 252x6300x55 eq. 3150-9 hours a day

 $3150 \div 9 = 350 \text{ days}$ 

Ques. 2—Find the Cube Root of 12, 812, 904.

Ans. 2-12,812,904 | 234 23 eq. \_

4812

1st. partial divisor 3x202 eq. 1200 and. 3x20x3 eq. 180

3º eq. 4167

First complete divisor 1389 645904 and, partial divisor 3x2302 eq. 158700

3x230x4 eq: 2760 645904 42 eq. 16

and complete divisor 161476 Ans = 234 Ques 3.-The radius being given how would you find the indicated horse power in the air.

(a) the circumference; (b) the area of a circle; (c) the inside diameter and length being given, how would you find the cubic contents of a cylinder? Ans. 3-(a) Circumference eq. radiusx2x3.1416

(b) Area eq. Diameter2 x .7854

(c) Cubic contents eq. Diam. 2x. 7854 x length

Ques. 4—A tank is fed by a pipe that can fill it in 2 hours, how long would it take to fill it if the tank has a leak which would empty it in to hours?

Ans. 4—In 1 hour pipe fills ½ of tack

" 1 " leak empties 1-10 of tank
" 1 " part filled ½ - 1 + 1-10 = 2-5 Tank will be filled in 5-2 or 21/2 hours

Ques. 5-A ladder 91 feet long, the foot of which is 35 feet from a wall, just reaches the top of it. How high is the wall?

Ans. 5—Height of wall eq. 912 - 352 eq. 8281 - 1225 eq V7056 eq 84 feet

edge is 1 foot 8 inches,

Ans, 6-1 foot 8 inches equal 20 inches

203 equal 8000 equal 4 cubic feet 1088 cub.

(Note-Questions 7 and 8 not published as they require Rule P eq. KSV2 or we may find the press. by pro-

A QUESTION ANSWERED.

As no answer has appeared in the Record to the following question, Mr. James Gray, of New Aberdeen, C. B. answers it as follows:

Ques .- A mine is ventilated by a Guibai Fan, 36 ft. diameter, which makes 68 revolutions per minute, and the quantity of air passing is 168,000 cubic ft. per minute, with a pneumati: pressure equal to 4.6 water gauge as shown in the fan drift. The downcast shaft is 12 ft. diameter and 1080 feet deep, and the upcast shaft is 12 ft. diameter and 1032 feet deep. The air passages are so arranged as to divide the current into eight equal splits, each passage square in section having an area of 50 square ft. The W. G. shown in the partition erected between the two shafts is 3.1065 inches,

(1) What should be the theoretical pressure produced by the fan. (2) What is the manometric efficiency of the fan, (3) What is the co-efficient of friction of the shafts. (4) What is the equi alent orifice of the downcast. (5) What is the equivalent orince of the upcast. (6) What is the equivalent orifice f the two shafts considered as one. (7) What is the equivalent orifice of the mine considered by itself (8) What is the equivalent orifice of the mine and shafts considered as a whole, (9) What is the equivalent orifice and length of each split of air in the mine reckoning the co-efficient of friction at .o1 lbs. for each sq. ft. of rubbing surface for a velocity of 1000 ft. per minute. (10) What would be

Answer.—This question resolves itself into various sections, therefore I will take them in the order given. (1)-By using 'Fairley's' rules' the theoretical W. G.

produced by the fan will be found thus: V eq. top speed of fan per second. Rule V2 or (V2 x.000458)

32.3 x 67.8 this multiple is only used when the return air is 60° Fah. The fan is 36 ft. diam. = (113 0976 feet circumference) making 68 revolutions per minute would have a top speed of 128.17 ft. per sec. found thus: 3.1416 x 36 x 68 + 60 = 128,17 feet per second. W. G. = 128.172 = 75 Theoretical W. G.

P eq. 7.5 X 5.2 eq. 39 lbs. per sq. ft.

(2) Rule: w W eq. 7.5 in. w eq. 4.6 in.
W eq. theoretical W. G. w eq. actual W. G. produced 32.2867.8

by the fan. Q eq. quantity of air per minute. M eq. manometrical efficiency of fan. Manometrical efficiency of fan is the proportion which the effective press. bears Ques. 6—Find the capacity of a cube of which each fore the manometrical efficiency of the fan eq. 4.6 eq. .6 to the theoretical press. In this case the Ian produces

(3) Rule K eq.  $\frac{Pa}{SV^4}$  In this case we must find the (press, used in the shafts. (nortioning the sq root of the depth

of the shaft and the press, of the upcast shaft. From the question I find the upcast absorbs a press. of This is the difference of press. 7.7662 lbs. per sq. ft.

at bottom of shaft and surface. ., Press. of D. C. V 1032 : V 1080 :: 7.7662 : X

Total press. of both shafts eq. 7.7662 + 7.9451 = 15.7113 15.7113 x 113.09 eq. .009 co-efficient of shafts, 37.6992 X 2112 X 2.2

(4) First find W.G. absorbed in the D. C. shaft thus: W. G. eq. KSV2 eq. .01 x 40715.136 x 2.2 eq. 1.5231

113.09 x 5 2 A × 5.2 Equiv. Orifice eq. Rule  $\frac{.388 \times Q}{\sqrt[3]{W}}$  eq.  $\frac{.388 \times 168}{\sqrt[3]{.5231}}$  eq.  $\frac{.52,82}{\sqrt[3]{.5231}}$ 

(5) .388 x 168 eq. 53.34 equiv. orifice upcast shaft. V1.4935

(6) W. G. for the two shafts eq. 15.7113 eq. 3.02°

.388 x 168 eq. 37 17 equivalent orifice of shafts, or find

W. G. thus eq. .01 x 1750,77562 eq. 2.977" W. G. 113.09 × 5.2

I will use this W. G. for the following calculations (7) The shafts absorb 2.977 in. W. G. and the W. G. for mine and shafts is 4.6, therefore the W. G. for the mine eq. 4.6-2.977 eq. 1.623'' $388 \times 168$  eq. 51.32 equivalent orifice of mine itself.

(8) The equivalent or fice of the shafts eq. 37.67 and

(8) The equivalent of the distribution of the mine as a whole is found thus:
$$\sqrt{\left(\frac{1}{37.67}\right)^2 + \left(\frac{1}{51.32}\right)^2} \text{ equal } 21.83$$

(9) We have 168000 cubic feet of air passing through the mine into 8 equal splits, therefore we shall have 168000 ÷ 8 eq. 21,000 cub. ft. passing through each split, .388 x 168 eq. 6.415 equivalent

V1.623

The length of each split will be found by the following rule thus : L= KV2O

L eq. Length of Airway in ft. O eq. Perimeter. P eq. 8.4396. Å eq. 50 K eq. 01. V2 eq. 1764 ... 8.4396 x 50 eq. 8459 ft., length of each airway.

.01 × .1764 × 28.28 eq. 168000 x 23.92 eq. QP (10) Rule H. P. eq. 33000 33000

121-77 H, P.

SUMMARY.

(1)—Theoretical pressure (7.5 × 5.2) 39 lbs. (2)-Manometrical efficiency of fan .6

(3)-Co-efficient friction of shaft .009

-Equivalent orifice of downcast shaft 52.82 (A) " upcast shaft 53.34 66

" shafts combined 37.67 44 (6)-

" mine itself 51.32 44 " mine and shafts as a whole Length of

(9)-Equivalent orifice of each split 6.415. each split 8,459 feet.

(10)-Indicated horse power in the air 121.77

GOLD MINING NOTES.

Owing to the erection of an electric power line from the Mersey River to the Leipsigate Gold District, Lunenburg County, N. S., certaiu New York capitalists have obtained an option on the so-called Crowe & Brown property, which is a large property, with considerable development work done on it, upon the same lead as that of the Micmac Gold Mining Company. The property obtained by these New York capitalists has upon tit several shafts, all in ore. The two principal shafts it several shafts, all in ore. are called the Gilmore and Old German. The Old German is down about 125 feet, and has several drifts run These drifts show good ore. Ricard, a brother of T. A Ricard, the engineer who came down to report on Nova Scotia mines for the Provincial Government, went down into this O'd German shaft when making an examination of the Micmae Gold Mining Company's property, for the purpose of forming an opinion as to whether it was of equal value to the vein worked in the Micmac property. As far as he could tell from observation, his opinion was that this part of the vein was just as promising as that on the Micmac property. The vein in this shaft is several feet wide, and carries about \$15 to the ton.

The Gilmore shaft is down about 200 feet. The vein is somewhat narrower than in the Old German, but car-

ries better values. These shafts are about one mile from the main shaft of the Micmac property, and conclusively prove the extent of the great fissure in the Leipsigate District. There is no mill on the Crowe & Brown property, although there are head frames, hoisting apparatus, and boilers in each shaft house. There are several small shafts and shaft houses, and some one or two dwellings. The property was developed by the Scotia Mining and Development Company, for the purpose of opening up ore, and making a good saleable property of it. The prospective owners of this property, who have an option on it, intend to work it with electric power obtained from the new line, The prospect of making this mine pay from the start is very good.

It is the intention of the management of the Micmac Gold Mining Company to do some prospecting this snmmer, and open up and prove several other leads that are in the Leipsigate district near the Micmac main fissure.

Mr. James Ross, yesterday, (Monday) confirmed the report already published in the Gazette, that while he and Mr. James Reid Wilson were in London, they discussed the differences between the Coal and Steel Companies with Messrs Angus, Wood and Nichols, and that the last two named had stated that Mr. J. H. Plummer, president of the Dominion Iron & Steel Company, would sail for Canada last week and that he would meet the president of the Dominion Coal Company upon his arrival in this city, "I hope," continued Mr. Ross, "and in fact I have always hoped that we may reach a settlement of the difficulties satisfac-tory to both interests. —Montreal Gazette, 14inst.

Grand Sec'y. Moffatt spent off and on three weeks in Springhill, presumably making prepar-ations for the test of the Labor Disputes Bill. Anyway as a result of his visit there is a case for the Board. John is all right and the Gd. Council makes for peace when possible.

### MARITIME MINING RECORD.

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

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

Advertising rates, which are moderate, may be had on application. Subscription \$1.90 a year. Single Copies 5 cents.

R. DRUMMOD, PUBLISHER.

STELLARTON. N. S.

MAY 22 1907

## - Rubs by Rambler.

correspondent of the Herald lately-and this is not the first time I have seen the suggestion-said that there would be more harmony in the P. W. A., there would be no need of soliciting for members, and more effective work could be done if its doors were thrown wide open. the admission of whom? Of the general public?
The Lord forbid. There are spit fires enough, I do not use the word viciously—among the working men, without letting loose upon them every crazy coon, who thinks he has a mission, every glib tongued demagogue, and a host of political heelers. We are told that they have the "open shop" in their 'unions' in Britain. Perhaps so, and perhaps that is the reason it takes a number of men going round the districts urging upon the workmen the necessity of rejoining the union and contributing like little men. The P. W. A. and contributing the fittle men. The P. W. A. wisdom to 'let well enough alone'. is not a society whose chief business is to discuss public affairs. Its business is to discuss matters chiefly affecting its members. True, some of the I spent a while, on a night lately, glancing overlies and the state of the specific public scale of from thirty to forty the state of the specific public scale of the specific public public scale of the specific public pu not a sufficient reason for the lodge to open wide its doors. The meetings of the coal operators are Why should officers than the stock housers of the property of gunpowder, accidents decreased. Within ones should the public desire to be present. Are not recollection workmen took a full keg of powder should the public desire to be present. Are not recollection workmen took a full keg of powder the workingmen capable of transacting the busi- into a pit, and old miners will be able to recall the workingmen capable of transacting the busi- into a pit, and old miners will be able to recall ness which most nearly effects themselves. It is cases where workmen attempted to fill their cans given as a reason why the doors of lodges should from their kegs with the lamp stuck in the front be open that some members keep the bosses well of their cap, the result being that a spark sent be open that some members keep the bosses well of their cap, the result being that a spark sent posted. That is quite possible, but what of it, the keg to pieces, and battered the holder. As Would they know less if the door was open. But the law became stricter still—in reference to first what, I ask again, if the bosses do know. There ing of shots, etc.—accidents grew fewer, until now proclaimed on the house two. If they have almost wholly disappeared. There are

sensibly among themselves who would be tongue tied in the presence of strangers. The doors are closed so that discussion can be free and informal. The P. W. A. is not a society founded for the the general good of the community, but for the special benefits of its members. The questions special benefits of its members. The questions special benefits of its members. The questions discussed are primarily those affecting themselves, not in relation to the community, but to their employers. Communications in writing pass between the lodges, and the employers of their members. These communications, in a sense, are pri-In fact the men have secrets, so to speak, of their employers in their possession, which they know they in honor should not make public. The thing that puzzles me is to know why while every thing that puzzles me is to know why while every other society is closed to all but its members the P. W. A. should be a free for all. The P. W. A. is not in the common acceptation of the word a secret society. The goat that a P. W. A. member rides in initiation is of the most harmless kind. There is a password, but only for the purpose of keeping strangers out, by strangers I mean those keeping strangers out, by strangers I mean those who will take all the benefits accruing from Union without assuming any of the responsibilities, that is without contributing towards expenses. But take the P W. A. and compare it with unions without similar organization. Is not the success attending it proof that its foundations were well and truly laid. Has it not secured, in many ways, more for its members at a less cost, than any other trades union. In twenty-five years there has not been a strike of men in Cape Breton of two days duration, and in Pictou Co. no strike of a longer period in twenty-one years If any trades union can blazon over its portals the words "Peace with Honor", surely that society is the P. W. A. Of course it cannot be denied there have been troubles at Springhill, but these cannot be set down to defects in the Constitution of the society. Gentlemen, in this instance, it might be

years old. On looking at the table of accidents I was struck by the number of accidents due to exhis doors. The meetings of the coal operators are prosons to powder, and then I somequized that not open to the public though they may at odd yet they say you cannot make men moral by act times discuss a subject that greatly concerns the of parliament". Some may think that there is public, namely, the price of coal. At the meetings no connection whatever between morals and the of the Steel or the Coal Company, or indeed of use of gunpowder but there is. Is carlessness a any concern none but the shareholders are pre- breach of the moral law? Is the omission of due sent. At Church meetings where business mat- care and diligence in the prosecution of ones labters are to be discussed none but contributors are or a breach of the moral law? I hold that either expected to be present or allowed to take part, the one or the other is Can the law make men oxpected to be present or anlowed to take part, the one of the other is. Can the law make men that a transper were to offer to give advice he less careless, and more careful? I hold that it would be called a meddler and impertinent. And can and that is proven by the fact that as soon by should others than the stock-holders of the as governments put restriction on the too free use. is nothing tailed on in louge that could not be they have almost whony disappeared. There are proclaimed on the house top. If that be so it now no accidents from powder in a majority of may be asked, what necessity for the closed door, mines for the very good reason that powder is This. Many workingmen can talk freely and talk prohibited. And yet it is not so many years ago

since out operators and miners thought it would not an over zeatous you be impossible to profitably mine coal in Nova action of the directors. the collieries at the present time the old maul and wedge are the implements employed in taking down the coal after the fall has been holed. I wonder if those who hold men cannot be made wonder if those who hold men cannot be made ernment explained that they would not, in future, moral by act of parliament have ever consider tolerate such actions. After this all statutory ed where this sort of argument would lead them. companies must fully and publicly declare their Should a parent correct a wayward son? ority may say, yes. But why should he? He cannot make the boy moral by his mandbte Why in any case establish a law or a code of discipline? If men won't do right of themselves can you make them do right by rules or laws? If we are to accept the assertion as a fact that men cannot be certain corporations in canada neiped to swell made outwardly, in seeming—and thats all that one or other of the parties campaign funds. Some is generally aimed at by restraints—moral by act of parliament, then one must conclude that all punishment is purely vindictive. You cannot get away from that. Does not law restrain a man. If so then it makes him moral in so far as it prevents him from doing evil. If there were no laws prohibiting certain actions, and compelling the performance of others, things would be in a pret-

Talking with a legislator the other day I happened to remark that political methods were much cleaner on the other than on this side of the water. He dissented violently and in a fine burst of frenzy said Canadian politicians were every whit as pure as those of Britain and that comparitive-I suppose he meant in comparison with the Ly—1 suppose the meant in comparison with the United States—there was little corruption in Canada. Well all I have to say is that if that be so, the newspapers are worse than common liars. They are surely in the third inveracity class, Beaconsfield said those in the first class were liars. those in the second class 'blank' liars, and those in the third class—were statisticians. Did one ever hear of a British prime minister telegraphing, to a member of a corporation for another ten thous The sin in that request lay in its being found out. If other members of other governments have not had the charge laid at their doors it is due, solely, to the fact that they were nt found out. Any man, in anyway familiar with the trend of things political in Canada, knows that not only individual members of parliament, receiving contributions from corporations towards for any political purpose. Sometime ago a bill promoted by the London and North Western Ry, was before the British House of Commons. A zealous liberal drew attention to the fact that the company had donated £200 to the purse of the eompany nad donated 2200 to the purse of the moderate party in the late London council bor-oughs elections. One of the directors of the commade and said the directors would refund the fore its articles will be acceptable to many liberal money out of their own pockets. The bill after readers it must first give proof that it has repent-this explanation would likely have passed, had ed as in dust and ashes of the evil of its former

since both operators and miners thought it would not an over zealous young lawyer justified the Sectia without the use of explosives. In some of over, as the members would not passit until there was ample proof of repentance. When it came up again the bill passed, after a strong debate, and at the solicitation of the ministers. The government explained that they would not, in future. George went further and said that the govern-ment would introduce a bill to make all these payments illegal It is known that big sums were given by the Insurance companies to the United States politicians and I would not wonder a bit if certain corporations in Canada helped to swell may think there is no harm in this, but there is. It is true to day as of yore that a gift blindeth the eye, and if a big company subscribes liberally to the party fund it does it for a purpose, and it is not hard to guess what that is. They tell us is not nard to guess what that is. They tell us that if we have dishonest, greedy, or grasping pol-iticians, the people are to blame. Perhaps so, but if it is becoming the proper thing for ordinary electors to be grafters, or to long for a chance to become such, I think it is because they have been set a bad example by certain in authority and that they see no reason why they should not have a share in what is, said to be, going.

Some excellent—I may so style them— articles are appearing in the Halifax Herald these days, telling us what our conduct should be in matters private, public and political. We are being treatprivate, public and political. We are being treated to good, if I may not say grand, moral sermons. It is pointed out that dishonesty in private, and nore especially in public, life is rampant, though, of course, it does nt go by that harsh name, but by such soft sounding word as graft. It is some-times called 'rake off'. Now, in dead earnnst. that there is a lot of graft, dishonesty, even swindling in public life, cannot be denied. men getting rich quick who never go near a brok-ers office. These men have influence in high quarters, and are given inside information which enables them to make 'deals', are the reward of those who it is thought have done yeoman, political, service. Of course it would be libellous to say that all our public men are that not only individual members of parliament, or incelling to say that all our public men are but heads of governments, have no aversion to grafters and grabbers, yet it connot be denied receiving contributions from corporations towards that in some form or other there never was so political funds—1 do not say the 'parties' in Brit-ain receive no subscriptions, but there such come articles in the Herald, good as they may be, true mainly from private individuals, while here 1 as they may be, fail to accomplish the good that ain receive no subscriptions, but there such come articles in the Herald, good as they may be, true mainly from private individuals, while here I as they may be, fail to accomplish the good that would not like to say that they do, nor say that they should, all owing to their setting. They would not like to say that they do, nor say that they should, all owing to their setting. They may be apples, pictures, of gold, but not being they are the offerings of unselfish, generous set in frames of silver the good effect they others. The directors of big corporations have wise might have is lost. The setting spoils, or dehearts. The directors of sometime ago a bill tracts from the articles. How so? Well its this for any political purpose. Sometime ago a bill tracts from the articles. is not so many years ago that the Herald condoned, if it did not strongly defend—in its friends—the very actions which it now so savagely denounces—in its opponents, The Herald, of course, has a perfect right to do that it it has undergone a transforming process, a change of heart fore its articles will be acceptable to many liberal

ways. This will be a hard job for the Herald, for and secure the necessary paper. This is not the even though proof is furnished there will still be first time the Record has been informed of such mendible. Just how the Herald will bring forth members have no right to wink at flagrant, or fruits meet for repentance I cannot say. The job minor—violations of law. And the bosses too, will be no easy one, for it is a damnable fact that they better look out. The mere fact that a man if a dog gets a bad name it will stick to him. And presents a certificate won't free them if it is known put it out of court for many a day.

Two Russians, so the newspapers say, were caught in one of the C B collieries having a quiet and friendly smoke in the mine. On their persons were found all the requisites for charging and lighting their pipes. They committed the ofand against their pipes. They committed the orAs the Temperance question is as much in evidfence so calmly and so openly that it is believed ence in mining localities as elsewhere, the following from that they were ignorant of any law prohibiting indulgence in the weed. That sounds bad, and on the maintains, where there are so many matters have not been content to let the recent alities, French, Belgians, Austrians, Russians, It- on alcohol remain without a formal protest. Special Rules are printed in no fewer than thirtythere will not be in U. B. any such congromera-tion of languages for many a day, but in case They believe the medical use of alcohol is 'occasional' there may be it might be as well that the operat-rather than 'regular, and limited rather than wide,' ors make a departure from the established rule of They regard the word 'life-preserving' in connection ors make a departure from the established rule of They regard the word The-preserving in connection printing the rules in English only, and print them with alcohol as misleading, and consider the expression in Russian also. This might be wisdom on the that alcohol has 'the power to sustain cardiac and nerpart of the operators for it is possible that if for yous energy' rests on no certain evidence. On the other part of the operators for it is possible that it for yous energy lests on no certain evidence. On the other eigners break the law through being unable to hand, they strongly believe that alcohol is unnecessary read the rules in a tongue foreign to them the as an article of consumption in the case of healthy men native workmen may apply for a law making it and women, and that its general use could be disconnative workmen may apply for a law making it and women, and that is general use could be compulsory that no man go into a mine who can tinued without detriment to the world's welfare. not read English. There are, as is known, certain ther, believing that alcohol is one of the most fruitful not read engines. There are, as is known, certain ther, believing that alcohol is one of the most truthen would be champions of labor, who are always on sources of poverty, disease and crime, they are pleased the lookout for some fresh subject on which to to add that it is now sparingly employed as a remedy disclaim. "Dangers to natives through ignorance by the majority of medical men. It it interesting to of foreigners" might prove a taking and attract- note that seven of the twelve signatories of this stateive theme. However they do it the operators ment are not tee-totallers; so it is in no sense a partisan must see to it that no man, native or foreigner, pronouncement. In contrast, no tec-totaller signed descends a mine in ignorance of the Mines Act, or could have signed—the first maifesto. or the Special Rules. This recommendation ap-plies not to miners but to loaders and days men only, for if the 'Men's Examining Boards' do their duty, no miner can possibly work at the face in ignorance of the law.

Complaints are made that the Boards for rence district has been increased, remiss in the performance of their duties. They vantage of the rise, as some of them are running are too zealous altogether—to secure the fee pay- on three years contracts. The Nova Scotia Steel remiss in the performance of their duties, able on a certificate being granted. This may not and Coal Co is the one, perhaps, most favorably be true but such is the report. It is said for insituated, as it has no long contracts. It is well, colliery will apply to the examiners at some other, contract.

even though proof is furnished there will still be arst time the cord has been informed of such Thomases, those sort of people who cannot think proceedings. The Deputy Inspector must invest-that a man can ever be anything but what he igate and have the offenders removed whether was, that is, it what he was was oau, or not com- the members tot the county agree of not. The members have no right to wink at flagrant, or If a dog gets a cad name it will suck to him. And presents a certificate won three them it it is known. I am a little afraid the Herald's past conduct will that such certificate could only have been obtained by fraud on the part of the holder, or by "comnounding" on the part of the granters.

#### DOCTORS AND ALCOHOL

an influential London paper may be of interest and of the Record hopes that the plea of ignorance Sims Woodhead, Dr. William Ewart, Dr T. B. Hpslop, use :—"Sir Frederick Treves, Sir James Barr, Professor the record hopes that the piea of ignorance Sims woodnead, Dr. William Ewart, Dr. L. B. Hipsiop, can be disproven, for if not then there are those Dr. T. N. Kelynack (hon, secretary of the Society for to blame besides the actual breakers of the law, the Study of Inebriety), Dr. David Walsh (editor of the In Cape Breton, and, perhaps, to a lesser extent, Medical Press and Circular), and other leading physicon the mainland, where there are so many nationians have not been content to let the recent manifesto allians, etc. it may be necessary from this out to sufficient grounds on which the opinions expressed in print the special rules in more languages than the manifesto were based have already been fully shown. print the special rules in more languages than the mannesto were eased have already been tuny shown, the English. Either that or interpreters must be The counter-statement now published points out that employed to give special lectures to foreigners, on certain misconceptions may arise both from the wording the Mines Regulation Act and on the Special Rules. of the manifesto and from the use to which it has been In Pennsylvania at some of the collieries the put. Sir Frederick Treves and his cosignatories say Special runes are prince in no rewer than thirty-that may gravely described in the carried in the two different tongues. It is to be hoped that manifesto, and cannot accept it as an authoritative there will not be in C. B. any such conglomerastatement of recognised medical opinion on the matter.

It should gladden the hearts of those who murmur because they think they pay more proportionately for coal than the people in Montreal to learn that the price to dwellers in the St. Lawgranting certificates to miners, are some of them, erators, however, will not be able to take full adstance that men who have not served in the mine however, that this company will be a gainer in the specified time if refused a certificate at one the St. Laurence, as it gets no share of the I.C.R.

## AROUND THE COLLIERIES.

The slants in No. 4 Slope of the Drummond Colliery, have been driven about 3000 feet.

Mr. Dl. McNeil succeeds Mr. Hayman as underground manager of No. 4 slope, Drummond Colliery.

Mr. Thos. A. Grant, who has been in Nanaimo for several years expects to pay a visit to Pictou Co. in July.

The Inverness mine worked steadily during last winter except for a few days in March when everything was tied up by the snow storms.

5000 tons of coal in bank during the winter. This will be handy to draw from when the summer's rush is on.

Things are running along famously at Inverness, with an output of from 800 to 900 tons on single shift. As soon as navigation opens active-papers, that the unwatering of the Hub will take ly to the St. Laurence the mine will be put on a longer time than expected. The information is double shift.

Owing to the fact that the Inverness Ry. & Coal Co. were able to keep their men employed during the winter months, the colliery is fairly well supplied with men and ready for a brisk summer's work.

The electric bell to be installed in No. 4 Slope of the Drummond colliery, will be a great benefit. The tugging at heavy wrapper wire will be dis-The telephone is being extended to pensed with. the furthest down lift.

A bad accident caused by a box going off the road in the Inverness mine, resulted in the death of one man and the injury of two others. The one fatally injured was a Scotsman. He leaves a family of seven children exclusive of his wife.

A bore hole was recently sunk in No. 4 Slope of the Drummond Colliery down to the Scott pit distance between the two lifts 6 and 61 is 450 feet. About 220 ft. of strata were gone through. The object of the boring was to test the Scott seam coal at a point much further south than had yet been tried. It is believed the core proved satisfactory to the management.

The level in No. 6 lift of No. 4 slope of the Drummond Colliery was driven in 1200 feet from the slope through broken pillars, and places broken off at right angles to the old pillars. This level has been working for about 4 years and is now about finished. From this at one time abandoned section a large quantity of coal has been extracted successfully.

Mr. Robt, Gray, formerly of Inverness has been appointed manager, under Mr. Harry Coll, of the Vale Colliery. Before leaving Inverness Mr. and Mrs. Gray received flattering addresses and tangible appreciations from the employees of the colliery. Mr. Gray is a capable man and the Record expects he will do good work at Thorburn.

A new lift of 760 ft. in the Inverness colliery was finished in April The sinking of this lift be-gan on the 17th of Deer, and was finished on the 16th of April. The sinking averaged about 7 feet This sinking, or lift a day, which is good work. developes an area of about three quarters of a The Inverness Ry. and Coal Co. put about million tons of coal. The total length of the slope 0 tons of coal in bank during the winter. This now is 3900 feet, the last 700 feet of which dips at the steep angle of forty degrees. The thickness of the strata between the face of the slope and the bottom of the ocean is 1060 feet

It is gravely stated in at least a couple of newspapers, that the unwatering of the Hub will take given that two electric pumps are employed, and that these discharge 500 gallons per hour. At this rate of unwatering it certainly will take a long time, indeed it will be an everlasting job, to dry the Hub. Given the ghost of a chance, two Pictou, or Cumberland boys, and two buckets, will throw out as much water as the two electric pumps. Possibly the word 'hour' is a misprint for 'minute.'

In the editor's absence omission was made in the Record of the retirement in April of Mr. DI. Hayman from his position in the Drummond Colliery. Mr. Hayman had been in the employ for over forty years, and surely earned a rest. He will betake himself from this out to light pastoral pursuits. The company, the officials and the workmen signified their appreciation of Mr. Hay-man's services and worth by making him the re-Sullivan Machinery Coy., of Chicago, have made a specialty of prospecting coal and ore lands for Mr. Hayman many years of happy retirement on a contract basis at a given price per foot.

A bow below.

In this distance a number of crushed places were gone through. The levels in being driven over-took a level that had been driven in Main seam The length of the level was 2000 ft, No. 2 Slope From this lift a large quantity of coal was recovered which at one time was thought to be irrevocably lost. Part of the coal was taken out by No. 4 and part by No. 2 main seam. Five jigs were driven off the 6 lift levels, and two have recently been started. Nos. 3, 4, and 5 jigs are about finished, and the level pillar is being taken out. Chucks are put in the high side of level to maintain an airway through to main seam.

## AROUND THE COLLIERIES.

Springhill is enjoying a season of peace and springing is enjoying a season of peace and it will likely be the middle of Sep t. before the prosperity. It may be the calm before the storm, steel bankhead at the Allan Shafts is completed. smallest mercy.

The output of the Drummond Colliery for May

The output from the collieries is having a decidedly upward tendency and with steady effort and attendance to business on the part of the men a good showing for the year may yet result al-though there is an extra big lot of leeway to be

Work is steady at the Springhill collieries and od fat pays are the result. Were it not for a good fat pays are the result. restlessness among the workmen which is almost unaccountable, Springhill would be a most desirable place to live in. As the matter stands, however, there is a feeling much similar to that which must exist among people living in the vicinity of a volcano.

The number of absentees from the collieries in Pictou Co. during May has been greatly disheartrecting to the operators. It almost appears as if a suithin the bounds of possibility that one of the majority of the men were helping their better collieries in Picton County may shut down for the sum-

During the greater part of the month the mainland collieries have had their outputs and mainland collieries have had their outputs and shipments curtailed owing to great scarcity of cars. It seems that a large number of coal cars were given to lumber shippers. The steamers which were to carry away the lumber were detained for many days by ice on the coast and consequently the cars remained on sidings. tended for many days by see on the coast and direct the day does diotect north and south consequently the cars remained on sidings. A These bords are nearly in their distance, and large number of cars are out west too. It is a therefore pillar work will soon be in order. The scarce of rolling stock.

Mr. James Ross, Pres. of the Dominion Coal Co. is back from his holiday. He must be a puzzle to interviewers. One newspaper man who interviewed him came away with the impression that Mr. Ross was of opinion that the Coal-Steel differences would be amicably settled soon. Another retired with the belief that in Mr. Ross' opinion there was no help for it but to fight it out.
The Record thinks that there will be a settlement, but it won't undertake to hint that it will

It will likely be the middle of Sep't, before the big

Tamping with clay when firing shots is being enforced in Dom. 1 to prevent shots from flaming.

The output of the Drummond Colliery for May could have been almost doubled had cars been supplied regularly and had there not been so supplied regularly and had there not been so weeks. There will then be two means of ingress or egress as required by the Act.

The first installed of the Stirling boilers at the Allan Shafts was moved bodily, brick walls and all, from its old position to a site alongside the last boiler installed. The work was done speedily and successfully, without The work was done speciny and successfully, without the least sagging of any of the walls; This is the first brick building to be moved in Stellarton. Another boiler is to be moved just as it stands. The officials are to be congratulated,

Mr. John Moffatt, Gd. Sec'y P. W. W., went to Springhill Monday night. The Conciliation or Disputes Bill Board meets on Thursday. At this writing it is not known how many points will be placed before the Board for adjudication. Both sides better have a full docket, and let the settlement cover all the points likely to arise, for some time. That, perhaps, will be a hard job, as Springhill is a great dispute producing locality.

ening to the other in the order of the men were helping their better comenes in rescaled in majority of the men were helping. At the Drummer season unless the miners attend more punctually mond colliery on one day recently a hundred and to work. Unless a certain output can be obtained each month the colliery referred to cannot be worked with like proportion. This neglect to work steadily on on loss. It may become a question soon whether it would not be as well to close down the mine until regulation of work can be assured, as the loss from keeping the mine pumped out and in repair would be no greater than the loss sustained from short out-put, while the operator would still have the coal to the good. It might be well that the workmen at this colliery take this view of the case into consideration.

The No. 7 lift levels in No. 4, of the Drummond have been driven 900 feet north. One jig has been driven up and bords broken north and south. therefore pillar work will soon be in order. The levels in No. 8 lift have recently been turned off south. The coal is extra good. The north levels may be turned off at any time. Sinking is still being continued. The No. 9 lift levels have been broken off. This lift at present is double shifted. this expected to get a large quantity of coal in this section. The roof is tender and lipey and it is therefore unsafe to open out a large area at a time. Mr. Blue, manager underground, is certainly to be congratulated on the successful manner in which he has recovered so large a quantity of coal, which it was thought would be too expen-sive to get out. Mr. Blue tackled a proposition ment, but it won't undertake to hint that it will sive to get out. Mr. Dide tacked a proposition be of an amicable nature. One side or other, or which was passed over for years as hazardous, both, will feel that the settlement when it comes and unprofitable. It is said there has been no was not just on the lines they had bargained for. tempted in Nova Scotia previously.

Max Passamino brought a number of Italian loaders recently with him direct from Italy.

Mr. Hutchinson, longwall expert, has left Dominion No. 6, and Mr. Wm. McDonald has taken his place.

Matters at Dom. No. 3 are running smoothly and all is going well. The output is good,

and against predictions is doing remarkably well, by having haulage road kept in good order,

The rope formerly used on the north deep haulage, Dom. No. 1, has been put on the single deep haulage, as the tope is still a good one.

The rope haulage in Dom No. 2 is now working on all the headways, where motors were formerly in use, The motors are now only used on the levels.

The new electrical plant at Dom. No. 2 is now working up to its present capacity, but if more boilers be added it can nearly double what it is now doing.

Mr. McVey is busy prospecting the Mullins' seam on the Lingan side. He has got it, he says, and he does not intend to let it go for any other body to re-discover.

The centrifugal pump has been taken out of Dom. No. 1 and put down in the Hub, as it would do better work there on account of having less head to pump a-

Mr. McDonald, U, G, M, of Dom. No. 6., is now in the pit again and although he still has to use a stick, he gets over the ground. It is hoped he will soon gain his usual energy.

The new lodgement and new pump in Dom. No. 9, (Harbor) are now ready and pillar drawing will commence at once, as it is expected this pump will handle the extra water.

On account of delay in getting the water shaft ready at International mine, an electric pump was put down to keep the water from rising into the present workings; hence no delay has been caused to output.

workings of Dom. No 10, (Emery) and the new shaft, and everything is being rushed to get ready for a good output as soon as the bankhead is ready.

The new pits on the Lingan side, when they will be opened, will be called No. 11 and 12. These numbers are a regular nuisance as it takes one all his time to connect the No. and the old name of the colliery.

Large quantities of water were encountered at Dom, No, 4 during spring freshets and it was found necessary to stop some of the machine work in order to obtain sufficient pressure to work the necessary number of pumps, this means heavy cost and loss of output.

A great hustle is noticeable at Dom. No. 5, Reserve, The new bankhead with screens, belts and all modern coal handling appliances, is being rushed to a finish. A large number of loaders have been imported and it is said more are needed yet,

The water is not being pumped out of Dom. No. 7, (Hub) as fast as expected on account of the pumps not being able to stand acid water. The pit bottom is clear and will be cleaned and secured by the end of the month. The new bankhead is being erected so that when the water is out everything will be ready for hoisting coal.

The Herald and Chronicle of May 17 conveyed to their readers the information that the North Atlantic Collieries Company had been floated. Mining Record readers had full information on this point in issue of 24th. April. Some of the newspapers are not fair to the Record. They appropriate its items without credit, or garble The repe at Dom. No 3 was extended another lift, the paper publishing them. The monthly coal shipments for instance are appropriated without credit These shipments are not, as was stated, easily obtainable from the Mines Office, for the reason that the Mines Office cannot furnish them monthly. We have hitherto refrained from lodging any complaint, and might not do so had not some of our patrons called attention to the purloining.

One of the officials of a mine in Pictou Co. asked a party what he was to do to induce the men at his colliery to work more steadily. He was asked in return how many off-days he would be willing to allow his men. He said if they would work on an average twenty two days a month he would be satisfied. As, the year round, there is an average of twenty six working days each month this would give a man 49 holidays a year, exclusive of course of Sabbaths, or four off days each month. Surely this is sufficient for the average workman who wishes to keep himself and his family in a respectable and independent position. Any merchant or merchant's clerk, foreman mechanic, or mine foreman, any colliery cashier or clerk, any lawyer or doctor in active practice, and needing to keep himself in practice for a living, any editor or printer under sixty years of age, would think himself mighty well off if he could get off an average of four days a month or forty nine days in the year. It is said that the time made by the men of the Acadia Colliery is much less than twenty days a month. The Record is ashamed to give the figures spoken of as representing the number of days worked on an average—but taking it at twenty days gives 240 working days, leaving 125 days for holidays and Sundays. Assuming that a working day of a miner is nine Connection has been made between the present hours and that he works only twenty days a month, he works one hour for every three he rests. He cannot therefore plead that he is very hard wrought. No doubt when a miner is at work he slashes into it, but yet his hard work is not a sufficient excuse for working only twenty days a month. Far better that he wades into it now, when he is able, so that when old age creeps on he may lay back and live on that which he has earned, all by his his own industry and exertion. In making these remarks the Record is speaking as much in the interests of the men as of the operators. The trade cannot prosper as it should, if its progress is seriously hampered, as indeed it is, by too many off days.

### INTERCOLONIAL RAILWAY.

#### Tender.

Scaled tenders addressed to the undersigned and narked on the outside 'Tender for Amberst Station', will be received up to and including WEDNESDAY, JUNE 5th, 1907, for the construction of a Brick and Stone Passenger Station at Amberst, N. S.

Plans and specification may be seen at the Office of the Station Adent at Amberst, N. S., and at the Chife Engineer's Office, Moncton N. B., at which places forms of tender may be obtained.

All the conditions of the specification must be compiled with.

D. POTTINGER.

Railway Office, Moncton N.B., May 18, '07. General Manager.

### INTERCOLONIAL RAILWAY.

#### Prince Edward Island Railway.

TENDER

Scaled tenders addressed to the undersigned and marked on the outside 'Tender for Waterworks', will be received up to and including TUESDAY, JUNE 441, 1997, for the property of the Waterworks at Pirate Harbour, N. S., Antigonioh, N. S., penighil Junetion, N. S., Chorle, N. B., Durham Bridge, N. B., penighil Junetion, P. S., Chorle, N. B., Durham Bridge, N. B., and Charlottetown, P. El., Parties may tender for one or more of the above named works; a seperate tender to be made for eveh work tendered on. Plans and specification may be seen at the Agent's office at each of the above mentioned places, and at the Chef Engineer's Office, Moncton, N. B., where forms of tender may be obtained.

All the conditions of the sptcification must be complied with.

All the conditions of the sptcification must be complied with.

D. POTTINGER,
Railway Office, Moncton N.B., May 15, '07, General Ma General Manager.

#### ORDERS FOR ROBB ENGINES, Etc.

The Robb Engineering Co. Ltd., have received the following orders

Sydney and Glace Bay Co., Sydney, C. B. One 18 inch and 26 inch x 12 inch Robb-Armstrong vertical enclosed engine for D. C. to 250 K. W. Generator, speed 350; Two 250 H. P. 72 inch x 18 ft. Return Tubular Boilers; One 500 H. P. Robb Feed Water Heater Steam Seperator.

Brockville Light and Power Co. Brockville, Ont: One 72 inch x 18 ft. Return Tubular Boiler.

Alberta Portland Cement Co., Calgary, Alta: One 21 inch and 40 inch x 24 inch Robb-Armstrong cross compound Corliss Engine D, C, to 500 K, W, at 150 R.

Vanderbeek & Sons, Jersey, N. J. for Millerton, N. B. One 14 inch x 14 inch Robb-Armstrong Engine on skids; One 72 in. x 16 ft. Return Tubular Boiler with castings for Dutch Oven; One Smoke Stack 50 ft. x 34 in. x 10 gauge; One Duplex Steam Pump 7 in. x 41/2 in. x 7 in. for fire purposes; One complete Rotary Mill; One complete Lath Mill.

Intercolonial Railway, Moncton, N. B. Three 100 H. P. Robb Mumford Boilers,

McKenzie, Mann & Co., Toronto, Ont. One 17 in. May 24
1907.

To all stations on the Reliway and to Detroit, Port Arthur, Port Huma and points east therefore the G. T. and to all points on the Dominion Atlantic, Halfax and S. W. Ry., Prince Edward Island Ry., etc.

I to all stations on the Dominion Atlantic, Halfax and S. W. Ry., Prince Edward Island Ry., etc.

In Duplex Feed Pump; One 10 in, x 7 in, x 12 in, Duplated Feed Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 7 in, x 12 in, Duplated Pump; One 10 in, x 10 i x 20 in. Robb Armstrong Engine D. C. to 200 K. W. lex Feed Pump for fire purposes.

#### Intercolonial Railway.

Return Tickets will be sold at

DAY

Victoria First Class, One Way Fare. Good going MAY 23 and 24. Good to return May 27 1907.

### Intercolonial Railway.

Tender.

Scaled Tenders, addressed to the undersigned, and marked on the outside "Tender for buildings, Halifax," will be received up to and including THIONAY, MAY 30, 1907, for the construction of a Stores building, Gil Hquee, and Chinney; all to be creect near the site of the new and Chinney; all to be creect near the site of the new and bounced and the construction of a store the new and the construction of a store of the new and the construction of a store of the new and the construction of a store of the new forms of the self of the existing dock at Milgaray, N. S., and at the Chief Engineer's Office, Moneton, N. B., where forms of tender may be obtained. All the conditions of the specification must be compiled with Rail way Office,

Moneton, N. B., May 13th, 1907.

Sealed tenders addressed to the undersigned and marked on the outside "Tender for Cribwork Wharf, Mulgaray" will be received up to and including THURSDAY, MAY 30th, 1907, while the construction of a Mulgaray of the specification in the short side of the existing dock at Milgaray. N. S., and at the Chief Engineer's Office, Moneton, N. B., where forms of tender may be obtained.

All the conditions of the specification must be complied with Rail way Office.

Moneton, N. B., May 13th, 1907.

Sealed tenders addressed to the undersigned and marked on the outside "Tender for Cribwork Wharf, Mulgaray" will be received up to and including THURSDAY, MAY 30th, 1907, while the construction of the short side of the existing dock at Milgray, N. S.

Films and specification may be seen at the Station Master's Office, Mulgaray, N. S., and at the Chief Engineer's Office, Moneton, N. B., May 13th, 1907.

Sealed tenders addressed to the undersigned and marked on the dustide "Tender for Cribwork Wharf, Mulgaray" will be received up to and including THURSDAY, MAY 30, 1907, will include the construction of the second of the construction of the short size of the existing dock at Milgray, N. S. and at the Chief Engineer's Office, Moneton, N. B., Pay 19th, 1907, will include the

### Intercolonial Railway.

#### TENDER.

Moneton, N. B., May 13th. 1907.

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## R. S. NEWALL & SON, LIMITED,

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This 14" Draw Bar Coupling Chain broke at 48 tons, 12 cwt., 0 qr., 0 lbs.

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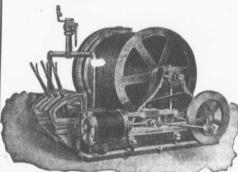
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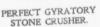
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BROTHERS, Canada Life Building, MONTREA



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Ny even unwestead Regulations.

Ny even unwestead section of Dominion Lands in Manitoba or the Northwas Provinces, excepting and 28, not researed, may be homesteaded by a most of the party of the pa

salcourse, —, artiser is required to perform the conditions under one of the following plane;

(1) At least six months; recisence upon and cultivation of the land in each year during the term of three years.

(2) At least six months; recisence upon and cultivation of a homesteader can be considered as the control of the land outside the land of the land outside land outside the land outside land

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS. SYNOPSIS OF CANDIAN NORTH-WEST MINING REGULATIONS.
COLL. Coal lasts may be purchased at \$0.00 acree for not coal and \$2.0 for anthracites. Not may be purchased at \$0.00 acree for not coal and \$2.0 for anthracites. Not may be purchased by according to individual company. Revisit of the coal and the coal acree for the payment of a royalty of 1.5 per cent on the sales.

However, the coal acree for the payment of a royalty of 1.5 per cent on the sales.

sales.

Placer mining claim; generally are 100 feet square; entry fee \$5 renewable yearly.

A free miner may obtain two leases to dredge for gold of five miles each
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for the miner may obtain two leaves to dredge for gold of five miles such a form of twenty pears, remeable at the direction of the Minter of the most of the miner of the mine

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

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## Wire Ropes Winding & Haulage in Collieries and Mines,

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Time Table No. 21, Taking effect at 1 a.m. Oct. 22nd. 1906.

Read Down		STATIONS.	WESTBOUND				
			Read Up				
No. 52 a. m	p m		-		No. 58 p m		
L 11 10 8 11 16 A 11 35	L 3 55 8 4 00 A 4 13 L 7 18 F 4 30 8 4 43 F 5 23 A 5 38 L 5 43 8 5 58 8 6 21 8 6 23 8 6 53 8 7 07 7 7 20 P m	P. TUPPEI JUNCTION PORT HAWKESBURY PORT HASTINGS TROY. CREIGNISH JUDIQUE CRAIGNORED PORT HOOD GLENCOR MABOU GLENDYRE BLACK RIVER STRATHLORNE INVERNESS	ASLAFSFSFLASSSFSL	11 00 10 55 10 42 10 37 10 27 10 15 10 00 9 42 9 29 9 16 9 10 8 55 8 25 8 15 8 00 7 47 7 30	8	3 3 3	36 27 10

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	80 18 per. cent.	77 51 per.	cent]
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SULPHUR	0 56 " "	3 07 "	**
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