

Cumberland.

\* Pictou.

Cape Breton.

Inverness

New Series Vol. 11 No. 6 SEPTEMBER 23rd, 1908 STELLARTON, N. S.

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No 144 Mixed for Hopewell	5 55
No 70 Mines to Tropewell	
No 79 Mixed for Trenton	6.30
	6.55
18 Express for Halifax, and St. John	7.40
21 Mixed for Pictou Landing	
21 Mixed for Pictou Landing	7.40
62 Mixed for Pictou	7.45
	8.30
	11.00
28 Mixed for Pictou	
to Missed for Photos	11.05
56 Mixed for Truro	13 35
	15.40
	15.50
140 Mixed for Pictou	
101 Missed for Discour Frontism 1111 11 111111	15.55
101 Mixed for Pictou Landing	16.50
	18.10
	19,40
86 Express for Halifax and St. John	
12 Papers for New Observation and 26, 20111 1111 1111111	19.50
17 Express for New Glasgow	21.15
66 Express for Pictou	21.15

-TRAINS ARRIVE AT STELLAR	TON
79 Mixed from Hopewell	6.90
61 Express from Pictou	7.30
18 Express from New Glasgow	7.35
21 Mixed from Honewell	7 95
55 Mixed from Truro	8.00
28 Mixed from New Glasgow	10.40
27 Mixed from Pictou	- 10 45
56 Mixed from Mulgrave	- 19.16
19 Express from Halifax and St John	10.30
85 Express from Halifax and St. John	15 85
20 Express from Sydney	
22 Rixed from Picton Landing	- 18:10
77 Mixed from Hopewell	18.46
65 Mixed from Pictou	19,30
86 Express from the Sydneys	19 46

Illusina are run be Jone and Halifax 21.1
Illusina are run by Adantic Slandard tirr Twenty four felosik is midnight. Montron, N. B. June 1981, 1008. Sleeping and Parlor Cars between Halifax and Sydney ining care on No. 85 and 85 trains between Halifax and algrave. On Nos. 19 and 50 trains between Mulgrave and sults Hiver.

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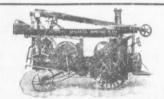


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"The acidity of the water, and the fact that of all the pumps I saw there two out of three were Jeanesville Pumps." An indication at least that we know how

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on coal is in minerals in proportion

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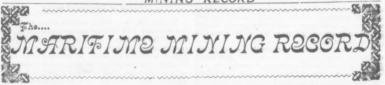
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We invite inquiries, which will have our closest attention.

I. Matheson & Company, Limited. ENGINEERS.

New Glasgow, " " Nova Scotia.



Vol. 11, No. 6. Stellarton, N. S., Sept. 23rd, 1908. **New Series** 

### SELECTED QUESTIONS AND ANSWERS.

### BOILER EXPLOSIONS.

O .- State the conditions which may tend to bring about a boiler explosion.

A .- Among the conditions which may tend to bring about a boiler explosion may be mentioned the following:

(1) Collapse of furnace tubes.

(2) General weakness of boiler of insufficient strength to withstand the pressure.

Corrosion of plates through dampness on the outside.

Overheating through low water. (4)

Improper setting. (5.)

Lack of cleaning when boiler gets scaled.

Unequal expansion of the various parts. (8) Interference with steam gauges or safety valves

(9) Negligent and incompetent persons as attend-

1-The collapse of furnace tubes leads us to think they are weak parts. A boiler generally begins to wear (1st.) near the ashpits; (2nd.) about the line of the fireand (4th.) at the front or bottom of the boiler,

2.-When boilers are made they are of sufficient strength to withstand considerably more pressure than the safety valve is designed to blow off at, and in order

and dampness on the outside of the boiler should be a-

4. Overheating is caused by allowing the water to get too low in the boiler, and in consequence exposing the crown of the furnace to the direct action of the fire, when it becomes overheated, and finally falls in.

-This should be seen to by competent persons, -Impure water is the cause of incrustation or cases prevents the heat from getting to the water, thus resulting in the burning of the plates.

on account of the too sudden changes, and the unequal expansion when raising steam,

8-Safety valves should not be interfered with, except by persons appointed, and should be so designed the weight on them.

9-I know of cases where the attendants have been both negligent and incompetent, and have in consequence of their negligence been prosecuted; to this I would say that it is essential you have a competent per- competent, and careful men, build double, or, better son looking after the boiler.

#### FIRES IN MINES.

Q .- If an extensive fire broke out in one district of a colliery, what steps would you take to deal with it?

A .- A fire in a coal mine is one of the most dangerous and troublesome conditions that have to be dealt with, because it robs the air of its oxygen and gives off several noxious gasses, which, if inhaled, render the miner incapable of looking after himself, and frequently causing death. Therefore, fires should be isolated and prevented from spreading from the seat of their origin to other parts of the mine, by means of the erection of good substantial dams, in both the intake and return airways of that district or part of the mine wherein the fire has broken out.

To do this in mines which are liable to spontaneous combustion, the mine should be laid out into small districts on the panel system, leaving an efficient barrier of coal between each panel. The working of the coal inside the panel may be either long wall, pillar and stall, or a modification of each or either; each panel having its own seperate intake and return. By this means each and every district could be isolated one from the other, and in case of a fire occuring in one it could be isolated, and the other districts or panels kept working, bars in the furnace; (3rd.) the shell near the water-line; thereby the output would only be reduced to the extent of that coming from the isolated panel, and this could be made up by a slight increase from each of the others.

When a fire does occur every possible means must be immediately taken to isolate and extinguish it. In to find any defects in material or workmanship they are this question where the fire has got a firm hold and the but to a hydraulic test of about twice that of the work- only way to extinguish it is by means of absolute isolation, and a cutting off of its supply of oxygen, to do this 3. - Corrosion has a very serious effect on the plates the number and position of the road will determine the mode of isolation, in conjuaction with the position of the fire with regard to the old workings. If the mine was one liable to spontaneous combustion the road would have been so laid out that isolation could be very quickly carried out, by having sites prepared in each road for fire-dams, by means of cutting a groove all round the periphery of the roadway about two feet wide and deep enough to be on the solid. This groove should soaly deposit in the boiler, which weakens and in some be built up with good bricks jointed with best cement, and all spaces packed and rammed solid with good dry sand. These grooves should be prepared at the earliest 7.—Intense firing does serious injury to the boiler possible moment, and a supply of bricks, dry sand, and account of the too sudden changes, and the unequal cement kept in readiness to immediately seal off the district by building the dam if a fire breaks out. If there preparations are made a district should be dammed off in about two hours. In the fixing upon the site great that no one can tamper with them, such as changing care must be taken to see that the strata of whatever description be very hard, free from cracks, fissures, etc. to prevent leakage of the air.

To actually deal with an extensive fire, first withdraw all the men affected; then, with the aid of good, still, treble brick and mortar stoppings, on the prepared

site; in between each set of stoppings, which should be about six feet apart, should be filled up and rammed solid with good dry sand. Make the stoppings perfect-

The return stopping must always be completely stopped off, because then the products of combustion collect, and as they do not sopport combustion they would assist in extinguishing the fire and prevent any explosive mixtures being formed and accumulating near The pressure of the in-going current would cause the smoke and fumes to be pent up under pressure in the workings, and thus allow time to build up the dam in the intake with a limited supply of fresh air. Sometimes it is advisable to reduce the volume of air whilst building the return dam, but great care must be taken that there is a sufficiency for the men's require-

In building the intake the full ventilating pressure may again be put on In building these dams the men usually work for a short time only at once, and several relays of men are kept in the fresh air ready to take their turn, or, in case of anything unusual taking place they would be handy to render assistance. Sometimes the dams are built up simultaneously, which is the better method if the whole of the circumstances are favor the official in charge of the operation.

In my mining experience in the South Staffordshire coal field, the home of spontaneous combustion, if I may

When this is done and a fire should break out in the district the men are withdrawan, these iron or safety doors instantly closed, thereby thoroughly isolating the

For this to work satisfactorily the doors should be oiled at least every week, and tested as to their forming an air tight joint every day, because if they are not well looked after they soon become out of order, therefore, useless for the purpose for which they have been erected. In some instances a plugged pips of a stort nature with a pressure gauge attached is placed on the doors, so that the pressure behind them may at any time be ascertained when in operation.

## SAFETY LIMIT OF ROPES.

To determine when wire hoisting ropes have depreciated beyord the limits of safety has been a difficulty of mining engineers, and to avoid risk-in the absence of exact tests-many ropes have been doubtless discarded while still in very good condition. The strength of the ropes is now gauged by a novel use of electric induction. The ropes are passed through a coil of copper wire traversed by an alternating electric current, and the variations of induced current-which exactly correspond to changes in the thickness of the rope-are recorded on a suitable instrument. Dangerous wear or broken strands cause the indicator to give warning

## DANGERS OF DRYNESS IN MINES.

by air-tight by plast-ring them with clay, of a suitable there occurred four bad and serious accidents in the Appalachian coal-field. The loss of life and property was appalling. Nearly a thousand lives were extinguished and many thousands of dollars of capital annihilated. Investigations of the causes by State and national authorities disclose officially the fact that the explosions were due to the ignition of gases or of coal This was a plain statement which even an ordinary engineer knew all along. The deeper-seated or primary causes are now brought out clearly by Mr. Carl Scholz in a paper published in the July issue of 'The Bimonthly Bulletin' of the American Institute of Mining Engineers. The analysis of the conditions discloses that the 'hygrometric condition of the atmosphere has the greatest effect upon the cause of the ex-For example, mines in a high dry altitude are especially dangerous The colder and drier the weather, the greater is the liability to danger.

Of course, the higher the coal of a mine is in volatile matter, the greater the tendency to explosion, and this, independent of any climatic condition. is a deterable, but a great deal depends upon the judgement of the advent of improved ventilating machinery the mining factor. It was further brought out that with mine explosions began to happen, and that in the old mines ventilated by turnaces the explosions were, praccoal netal the nome of spontaneous combustion, it I may because operating, unknown. A study of the conditions use such a term, I have seen the following method as of mines in Oklahoma shows that in a certain mine in dopted, for the instant isolation and prevention of the winter with a temperature outside of 32° F. and a In both the intake and return air-ways of each dis- air forced into the mine, where it assumed a temperatrict a site is chosen and a gosd substantial circular arch ture of around 62° F. was only 33 per cent. There built; in between the masonry and the strata all spaces must always be a certain amount of coal dust in the are nized up and armly rammed with dry sailed. The course of even the obst managed infines, and this can each arched air-way an iron framework is built during of course, be pretty well dried up by the incoming dry Inside entries of even the best managed mines; and this will, the building of the arch, and from about a fact in the same architecture in the exposite tures of any occasional and a painful remembrance is carried by us in the awful explosion of this dust in a large cement works near New York City. With this in a dry pulverulent condition it is axiomatic to say that it is little less dangerous than gun-powder. We believe that this all is sound reasoning and conservatively can be called a logical guess as to the cause of coal mine explosions. A corollary to this is that English mines are safer because of the damp English climate. effect of the English dampness on other business is marked, And American textile manufacturers began to make an artificial English fog by spraying water into the air of their plants in order to moisten it. The natural practical outcome of this is that all coal mines situated in the dangerous zone should have their air artificially moistened to keep the dust wet and so safe from explosion. This will have the effect further of preventing the stratification of 'fire damp' or methane in the mines."-E. and M. Industry.

## AN ALBERTA JUDGEMENT AND THE U.M.W.

It will be remembered that some months ago a Board of Conciliation and Investigation was established to adjust differences between the Strathcona Coal Co., Ltd., of Strathcona, Alta., and certain of its em-The Board consisted of Mr. Geo S Montgomery, Chairman; Mr. F. L. Otter recommended by the company, and Mr. F. H. Sherman, recommended

by the employees. the dispute was estimated at 40. men asking weekly pay in legal tender; recognition of all points in dispute. effective from December 23, 1907 screened coal by the company to its workmen at \$3,25 per ton within Strathcona city limits, and full recognition of the United Mine Workers of America, with the adoption of the check-off system, and an arrange- saying that the United Mine Workers of America, Dis-The agreement included also various provisions as to any status in court. conditions of work.

Sub-equently an action was brought on behalf of the employees charging the company with a breach of the agreement in various respects. The case was arthe agreement in various respects. The data has a Another reduction of 8 per cent. In miners wages in gued before the Hon. Mr. Justice Stuart. in the Supthe federated district of Edinburgh came into effect on reme Court of Alberta, on June 24 and 25, Mr. H. A. Stuart delivered oral judgement in the case the open-

ing paragraphs of which are as follows :-

I had thought at one time of reserving my judgement in this case for the purpose of giving carfully very great interest to a great many people in the com. men are, munity, and the action has been brought really, I presume, because it is of such general interest, but I do not see that any advantage can be gained by reserving that decision for the reason that my views in the matter as to the rights of the parties are quite clear, and I think I can give my reasons for the judgement I am about to give as well now as at any later time.

I may say in the first place, that my only reason for not dismissing the United Mine Workers of Amer. ica, District No. 18, from the case and from the record winding mechanism are now practically non-existent, tea, District No. 18, from the case and from the record winding mechanism are now plantaged at the very opening of the triel, and my reason also and, therefore, the rope is not, as a rule, subjected to possibly for not dismissing the action as a whole at abnormal conditions of wear. On the other hand, the the opening of the trial for the reasons I am going to effective life of a winding rope is shorter than when used give for dismissing it now, was because I did not want for other purposes, it being necessary-on account of to leave the impression upon these plaintiffs, who are labouring men and members of the Trade Union, that rope aside before the structural changes produced by their case was being treated unceremoniously or with longitudinal compression have become manifest externcontempt, and for that reason I have listened, I think, ally. with some patience, not only to the evidence, but to

There can be no doubt in the world, as Mr. Mackie admitted at the close of his argument, that the United Mine Workers of America, District No. 18, can have no status in any court as parties plaintiff or as parties to the action at all. It is not alleged in the statement of claim that they are a body corporate, and they are not proven a body corporate. The only persons that not proven a body corporate. A the way a regrected with the result that endess complete have a right to sue in court are individuals or bodies of ropes wearing badly, and that users employ chairs registered under the Trades Union Act. If the United curves of small radius.

The number of men affected by Mine Workers of America, District No 18 had been The differences re- registered under The Trades Union Act, they would, ferred for investigation involved a change in the hours according to the decision in the Taft Railway case, no ot labor, the men asking an eight hour day from bank doubt, have been entitled to be sued, and I think, corto bank; a change in the method of paying wages, the rellatively to sue in court. But it is admitted that they are not registered; therefore, they are a nondescript the United Mine Workers of America, and various body so far as this court is concerned, and certainly changes in conditions of work in and around the mine, their claim, as far as this court is concerned, must be The Board was fully constituted on December 2, and dismissed. It is true Mr. Mackie referred me to cermet at Edmonton during the month. On December tain cases in British Columbia in which actions seem 28 the Department of Labor received a report from the to have been brought against the Western Federation Board showing that an agreement had been reached on of Miners, or certain Unions of that organization, but it does not appear from the records whether or not until March 31, 1999. The agreement involved an 8 they were registered under the Trades Union Act and hour working day at face or place of working; semi- I am inclined to think from reading the reports that monthly payment of wages by cheque; supply of they were simply, after all, only representative actions, because a large number of individual defendants were joined as well as the Federation of Miners, and I do not think that those cases furnish any authority for ment for the settlement of local or general disputes, trict No. 18, can bring any action, or that they have For that reason, in respect to them the action will be dismissed with costs, IF YOU CAN GET THEM OUT OF THAT ORGANIZATION,

the I5th. inst. Mackie appearing as counsel for plaintiffs and Mr. J. taken place in Scotland recently, and if it were not that R. Laveli representing the defendant company. Judge we had the P. W. A. in Nova Scotla, and that our min-This is the third reduction that has ers had the wit to make a two years contract with the biggest coal company, the probability is that wages would be tumbling down here also. And this very contract which has saved the miners all over from a reducand in extenso my reasons for the judgement that 1 tion, is claimed to be one of the reasons for the cry for should give, because it is a matter, I have no doubt, of the U. M. W. How short sighted and ill to please some

#### ROPES FOR WINDING

The most important field of application for ropes is in mining, and as the question of space does not come into consideration, large pulleys and drums can be used, more particularly since the angle of lateral deviation between the winding drum and head pulley must be kept as small as possible. Errors in the construction of the the special precaution needed in winding-to lay the The usual data given in engineers' pocket-books with regard to the relative diameter of rope and rope the argument that has been advanced upon their behalf, pulley are of no practical value, since the flexibility of the rone depends on the thickness and material of the individual wires, as well as on the total diameter. most reliable factor for calculating the rope pulley is the thickness and tensile strength of the wire, from which it follows that the diameter of the pulley should be at least 400 times that of the individual wires used in making the rope. This minimum is, however, frequently corporate who are given that right by statute. There instead, because, in spite of their drawbacks in other is the exceptional case, of course, of Trades Unions respects, they are better able to stand bending through

## MARITIME MINING RECORD.

fourth Wednesday in each month.

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#### R. DRUMMOND, PUBLISHER.

STELLARTON. N. S.

SEPT, 23

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WORK AT HOME FOR THE U. M. W.

in Alabama would be arrested and sent to prison. who be sent to prison could be sent to the mines and lawabiding.

Commenting on this the Coal Trade Journal

says:"This is not quite a full and impartial description of the Alabama situation, as no reference to be really and truly democratic. miners were becoming dangerous centers of law-

in Alabama. Talk of enlarged liberty and op-portunities under the U. M. W.! The miners of Alabama are prohibited from meeting, and from The MARITIME MINING RECORD is published the second and speech. Verify they are in slavery. And while the Wednesday in each month.

The PECORD is broaded to the Wednesday Coal Missing.

M. W. Let those members of the P. W. A. who The RECORD is devoted to the Mining—particularly Coal Mining
—Industries of the Maritime Provinces,
Lewis. Referencements of Pres.
Lewis. Referencements of Pres. Lewis. Before coming to Nova Scotia, to make the road smooth for the feet of the colliery workers, might it not be well that the U. M. W. go down in full force to Alabama and preach liberty to the mine workers in captivity there.

The RECORD has much sympathy for the delegates to the Grand Council meeting of the P. . A., who went to the meeting for the express President Lewis, of the U. M. W. has made the so much, in the past 29 years, for the moral, infollowing statement for calling off the strike in tellectual and social uplifting of the colliery Alabama:—"The strike in Alabama has been de-workers, individually, and as a class. They got, clared off for the reason that the Governor of Al- what some might say, a proper roasting, and their abama issued orders to the officers commanding wounds are the sorer seeing the recalcitrants abama issued orders to the officers commanding wounds are the sorer seeing the recalcitrants the troops to cut down the tents sheltering strik-were roasted on their own grid iron. To change ing miners who had been evicted from their the metaphor they have been hoisted with their homes by the coal companies. The Governor own petard. In May last these delegates or others stated that the strikers would not be allowed to of their kind forced an arrangement which live in tents, and public meetings would not be sought to bind the lodges to a course, on which allowed in the mining community during the they had never been consulted. The delegates of strike. He also said that if the strike was not the May Council, without instructions from the ended immediately that he would call a special lodges, illegally resolved upon a course which meeting of the Legislature, have the vagrancy sought to compel a minority of the members of sought to compel a minority of the members of law of the State, which does not now apply to the Association to abide by a ruling of the majorstrikers, amended so that it would include idle ity. The yielding to a majority, in matters of men on strike, and under the law every idle man opinion only, has always been inculcated in the lodge room, but on matters of conscience, or of This, he said, would end the strike, as the men principle compulsion is abhorrent. And a great principle was at stake; one that might mean life as convicts. Meetings were dispersed by the sold- or death to the P. W. A., one that might mean iers regardless of the fact that all were peaceful the putting back of the dial, and to check the steady progress, of the workmen at the collieries, witnessed during the past 29 years. And these men, who now assail the majority of the delegates to the Council meeting held last week, claim is made to the many acts of violence that had if it means anything, means freedom for the in-been committed, presumably by strikers, and the dividual. But the U. M. when would not have fact that the camps established by the evicted given the so called minority in the referendum vote, any liberty at all. It was either the U. M. desness in the opinion of the authorities. At the W. or nothing. Now the minority—so called same time, they have a way in the South of hand never sought to deprive the majority of any freeling labor that would not be tolerated in other dcm, of any right or privilege. If there are minparts of that would not be tolerated in other dem, or any right or privilege. If there are mingrated the country' how does it not strike the average Nova Scovery anxious to join the U. M. W. why do they tian that Pres. Lewis and the officials generally not quietly leave the P. W. A. and join the fore-off the U. M. W. have more work to de at home ign order. Why, because they imagine they see than they can well attend to, without invading bigger and better things in the U. M. W. do they Nova Scotia, with the expressed object of lifting seek to compel the loyal members of the P. W. A. our colliery workers into a higher plane. The to look through their glasses. Before the meet-U. M. W. are coming to Nova Scotia, are they, to ing of Grand Council the foreign order sympathof their present territory, they possess a field big good grace to the—so called—majority." To-day enough for their best energies. They coax us in they sing another song Beaten in the highest LM Wwith the another the protection of the court of the Association, beaten by both a secret LM Wwith the another the protection of the court of the Association, beaten by both a secret LM Wwith the another the protection of the court of the Association, beaten by both a secret U. M. W. with its membership of 200,000 to 400. and an open vote, fairly and squarely, they 000. The P. W. A, has not a fortieth part of that squirm; wont take the physic they themselves membership, and yet it would not tolerate for an prescribed, and with violence declare they will instant a state of affairs similar to that existing not accept the ruling of the majority.

Some orators in order to make a point with discovered that it was the lodges of U. M. W. the unthinking, assert that the Record is in favor of the P. W. A. because it favors the capitalist. Well, no one can say that Jas. A. Fraser, of one of these from Strathcona, one from Olive and the Eastern Chronicle, is a capitalists man, and one from Power lodges. It also recommended he has the following to say on the P. W. A,-U, that because Pretoria lodge was in arrears for M. W. question:-

'If Mr. Patterson really wants peace, why does he not leave the choice of which it is going der domination when a time of stress comes there is danger that the U. M. W. will be on the one side and the people on the other, movement is dangerous from a national standpoint. In Nova Scotia the mine workers are a very important and influential body of men. Tf they affiliate with the mine workers of the United States the latter country will come in time to mean more to them than their own country. If of the mine workers, who are to come under the therefore rendering the vote of the referendum dominion of the United States, U. M. W., we illegal also. When it came to changing the conordan independent Canada, as part of the Bolish Empire, we do not so easily understand it."

Says the Glace Bay Gazette which cannot be said to be a capitalists paper:- "The mask seems to have fallen off and the object of Mr. Peter Patterson is now clearly to do the work of the capit. the constitution as it was and 28 for changing the alists and disrupt the labor forces in our colliery constitution, towns. To wreck the P. W. A. is poor business

### GRAND COUNCIL, P. W. A.

Grand Secretary Moffatt, of the P. W. A. gave out the following statement to the Halifax papers on the work of the meeting

"The thirtieth annual meeting of the Grand Council, of the Provincial Wockmen's Association held in Halifax this week, was naturally a very stormy Council. This was not unexpected as the Council was divided into two factions, one strong for the P. W. A., the other favoring the United Mine Workers of America.

For some months it has been felt that the faction composed of U. M. W., intended if possible the agitation for any Labor Organization suffito control the Council meeting and change the constitution with a view of bringing about a dissolution of the P. W. A. But the members of the cil gives the Grand Executive authority to revoke P. W. A. were determined that this should not or suspend their Charters. We further recomoccur and when it was attempted to do this it mend: That no agitation in favor of other Labwas found that the U. M. W. faction were in a or Organizations be permitted in any sub-ordinate was found that the U. M. W. Iacton word in a lodge."

Council until near the finish the council room was one common 'battle ground'. The issue was the P. W. A. or the U. M. W. of America, with the result strengly in favor of the P. W. A. It had public demonstrations after pay days—is not been secretly circulated that the lodges of the P. suffering from wantof facilities for allaying thirst. W. A. were over-represented. A committee was Several of the workmen have been doing penance

that had over-representation. The report of this committee which stood for the credential committee favored the barring out of three delegates, one year their delegates should not sit in Council. The minority report recommended that all these delegates should sit. The majority report carried 51 for, and 1 against. This was the second test of sence as agent of the U. M. W. does not tend to Bryne, who had been asked by the executive to that it has had the appearance. that it has had the sympathy of the people of the of the officers Bryne had taken a very active entire province. If the mine workers come unpart in opposing the U. M. W. of America, both at the meetings and through the press. In this e on the one way he had incurred the hostility of that faction Besides, the and they were determined to put Bryne out but failed, as the vote stood strongly in favor of Bryne.

The reading of the minutes of the Council meeting held in St. Paul's Hall, Halifax, last May was tha one issue on which the U. M. W. had based their hopes, but the Council refused to approve the minutes or to take any action on them, seeing could understand the movement, but for the goal stitution with the purpose of bringing about a of an independent Canada, as part of the British dissolution, a secret ballot was taken. The ballot stood for retaining the constitution as it was 51 for and 32 for making the dissolution. As there was only 79 eligible voters in the Council and the vote cast showed 83, the U. M. W. faction entered a protest. Grand Master McNeil called for a standing vote, with the result that 49 stood for

A resolution read favoring the dividing of the for any man professing to have the interests of funds and the property between the seceding lod-working men at heart. of funds and the property between the seceding lod-ges and the P. W. A. lodges was ruled out of order on the grounds that the Grand Council had no authority whatever to give away either their funds or their property.

A very strong resolution giving the Executive authority over the lodges was placed before the Council and passed, the vote standing 47-7 in favor of the resolution. The resolution was:—

"Whereas during the year much agitation has been caused by some of the lodges with the purpose of destroying the Association of the P. W. A. by bringing in the United Mine Workers of America; And whereas this agitation tends to destroy the usefulness of the Association, and also burdens the Association with unnecessary expenses, be it hereby resolved that this Council deems cient cause for the revoking or suspension of the Charters of the lodges so agitating, and the Coun-

appointed to look into the matter when it was for imbibing too freely of that "two" per cent.

### COAL MINING IN CAPE BRETON.

From a 'souvenir' prepared by the Nova Scotia Steel & Coal Co. on the occasion of the visit of the British Engineers, and the Mining Society of N. S., we glean the following interesting details as to the beginnings and progress of mining in C. B., coupled with other information:

Nicholas Denys obtained a concession from Louis XIV, of France, of the whole Island of Cape Breton with full powers to search for and work mines of gold, silver, copper, and other minerals, paying to the King one-tenth of the profit. A. D.

In this year we have the first printed not-part of the present prosperous town of Sydney ice of the existence of coal in Cape Breton, which Mines.—A. D. 1784. In this year we have the first printed notappears in Nicholas Denys' description of the Island. He particularly refers in this work to the ministration by means of a level driven into the (Sydney), (We might be pardoned in remarking here that this 'mountain' still exists, the quality of the coal is still 'very good' and is being shipped at the present time from the piers of the Nova Scotia Steel & Coal Co., at North Sydney). A. D.

An ordinance was issued by France that a duty of twenty sous per ton was to be exacted from to Thomas Mosely by Colonel McCormick, any person taking coal from the cliffs of Cape succeeded Governor DesBarres.—A. D. 1788.

The patent granted Nicholas Denys by Louis and Stout for seven years.—A. D. 1792. XIV, of France, was revoked in this year.—A. D.

Admiral Walker reported to the Admiralty that the English and French fishermen took coal home on their homeward voyage from Spanish Bay, (Sydney).—A. D 1711.

of officers, soldiers and laborers who were laying the foundation of the celebrated fortress of Lou- eral Campbell.—A D 1801

During this year there is a record of coal being shipped throughout the year from Sydney to Boston. -- A, D. 1724

The French shipped some few cargoes from

Head, Sydney Mines, and the entrance of Little Bras d'Or during these years.—1745 to 1749.

The Duke of Newcastle sent to Boston for a Block House, which was erected at Burnt Head for the protection of coal mines then being operated there.-A. D. 1748,

M. Pishon, Secretary of the Governor of Louisof Cape Breton, and refers to two pits at Baie des Espaynols, (Sydney Mines.)—A. D. 1752.

The Fort and Pit at Burnt Head were destroy-

ed by fire.—A. D. 1752.

Exclusive right was granted Benjamin Gerrish Wm. Lloyd, James Amesbury, and Peter Bard, York was not executed until August 25th. of this Merchants, of Halifax, to mine coal in Cape Bre-year. During this year Mr. Richard Brown, an Gerrish and his partners opened a mine at

from Sydney to Halifax by ships of war during
Mr. Brown is the author of a very good history and American Revolution. They were chased and tory of Cape Breton, and also a history of the

attacked by French frigates, but arrived safely. A.D. 1781

Governor DesBarres laid the foundation of the town of Sydney, called so after Lord Sydney at that time Sec'y of State for the Colonies.—A.D.

All coal previously mined in Sydney River was Nicholas Denys was appointed Governor of all Cove on the northern shore of the river (Harbor), the eastern part of Acadia, including Cape Bre-Both of these seams of coal are on the property of the Nova Scotia Steel and Coal Company, Ltd. A. D. 1784.

Governor DesBarres commenced operations on the Sydney Main Seam, now being worked by the Nova Scotia Steel & Coal Co, and reserved four hundred acres of land for mining purposes. On this four hundred acres of land now stands

Coal was mined under Governor DeBarres' admain seam from the foot of the cliff. where a wharf was erected at what is now known as Sutherland's Corner. This wharf, after repeated repairs, was used up to the year 1834. Suther-land's Corner is still sometimes spoken of as the 'Mines Wharf'. The old level may still be seen in the cliff at this place.—A. D 1784 to 1787.

The coal seams at Sydney Mines were leased Thomas Mosely by Colonel McCormick, who

The mines were leased to Messrs Tremaine

A Block House was built and two batteries of four guns each were erected on what is now known as 'Peck's Head,' for the protection of the mines near Sutherland's Corner.—A D 1795

The Government worked the mines for one ear under the management of Mr. Campbell, the Coal was mined at Sydney to supply the force then Attorney General of the Colony.—A D 1800 A seven years lease was given Attorney Gen-

Campbell surrendered the lease, and the government resumed possession.—A D 1803 Messrs Ritchie and Lever took a lease of the

mines,-A D 1813

Spanish Bay (Sydney) to the Island of Martinique lease to Messrs G. W. Bown and J. Lever. (Bown to be used for the boiling of sugar.—A. D. 1728. came to Cape Breton as Secretary to the then Louisburg was supplied with coal from Burnt Governor.—A D 1818

The lease was renewed to G, W, Bown for one year. During this year the Island of Cape Breton was annexed to Nova Scotia.—A D 1820. Sir James Kempt leased the mines to T. S. and

W. R. Bown for a term of five years.—A D 1822, Messrs Rundall, Bridge and Rundall, of Lonburg, made a coast survey of the northeast coast Mining Association, Limited, which acquired coal don, organized a company called The General seams known and unknown in the whole Province of Nova Scotia, from the Duke of York, the Duke of York holding a lease for sixty years by the royal prerogative of George IV .- A D 1825

The lease from the Crown to the Duke of eminent mining engineer and geologist came to Spanish River, (Sydney).—A. D. 1766.

Sixteen vessels, coal laden, were convoyed from Sydney to Halifax by ships of war during

Mr. Brown is the author of a very good his-

## Coal Shipments Aug, 1908

## -DOMINION COAL COMPANY, LTD,-

		_			
-Output	and	Shipments	for	Aug.	1908-

		-Output-	-Shipmen
Dominio			
Dominio			
Dominio	n No.	3 25 739	
Dominio	n No.	4 36 197	
Dominio			020.050
Dominio			353 379
Dominio	n No.	7 18 133	
Dominio	n No.	8 20 754	
Dominio	n No.	9 29 997)	

Q1.1	306 5		353	379
onipments	Aug.	1907	365	027
Decrease	66	1908	11	648
Shipments	8 mos.	. 1908 1907	3	251 846
	0	1904	2	110 222

### ACADIA COAL CO.

Increase 8 " 1908...... 141 624

Shipments "Decrease	Aug	1908	071
" 8	44	1908	045

## NOVA SCOTIA STEEL & COAL CO.

Shipments "	A	ug.	190864 190781	406 590
Decrease		"	190817	
Shipments			'08424 '07404	644
Increase	8	- 14	08 19	

## INTERCOLONIAL COAL CO.

44 44		755
Decrease "	1908 8	160
Shipments 8 mos.	1908171 1907181	368 571
Decrease 8 "	1908 10	203

## CUMBERLAND RAILWAY AND COAL CO.

Shipments "Increase	- "	1908 1907 1908	nil
Danie W. Wall	8 "	1908 1907	247 082 213 409
Increase	8 .	1908	22 679

## INVERNESS RAILWAY & COAL CO.

Shipments	Aug	1908 1907	19 23	577 153
Decrease	44	1908	3	576
Shipments "	8 m 8	os. '08	72 54	243 150
Increase	8	'08	18	093

### Continued from Page 16

Coal Fields of Cape Breton, from which source a great deal of this material has been obtained.

The first of January of this year, the General Mining Association, Limited, of London, took formal possession of the property granted to the Duke of York, and from this date forward coal mining has been carried on with some system, and unpuniterruntedly at Sydney Mines — A D 1827.

aud uninterruptedly at Sydney Mines.—A D 1827.
The first shaft was sunk at what was known as 'the Yard Pit'. It was 200 feet deep,—A D 1830
The second shaft was sunk 320 feet deep on the Sydney main seam. It was called the Jacob's

pit.—A D. 1834.

The railway wos built from the pits to a shipping place at North Sydney.—A D 1834

ping piace at North Sydney.—A D 1834

This is a very important year in the history of coal mining for Cape Breton. During this year Old Sydney Coal was for the first time used for bunker purposes on board Her Majesty's steam sloop the 'Dee'. The 'Dee' was on her voyage from England to Quebes during the rebellion. From this date forward, the Old Sydney coal has been used to a great extent for bunkering purposes, and its good name has been very fully established, and universally acknowledged both at home and abroad.—A D 1838

The Crown released to the Government of Nova Scotia all its interests in the minerals of the Province—A D 1849

The third shaft was sunk on the Old Sydney seam at depth of 400 feet and called the Queen Pit', During this year, locomotives were used to convey coal from Sydney Mines to the shipping pier—A D 1854,

During this year, the General Mining Association surrendered their claim to all the Mines and Minerals, except the coal, within certain defined limits, thus ending what is so well known in this country as "The Duke of York's Lease". A D 1857

The Sydney Mines Volunteers were organized as two Infantry Rifle Companies in the summer of 1859. A third company of Garrison Artillery was organized in March, 1862; all were disbanded in the spring of 1864. The number of men consisted of sixty men and non-commissioned officers (including a Lieutenant Colonel and a Surgeon). None of the Volunteers ever received any pay. The officers paid for their own uniforms, and the uniforms of the men were given them by the General Mining Association. The two companies of Rifle Volunteers were inspected at Sydney Mines by the Prince of Wales (the present King), in person, on the 28th, day of July, 1860 – A D 1859

Mr. Richard Brown retired, and was succeeded by his son, Mr. Richard H. Brown, a worthy successor. Mr. Richard H. Brown's name is well known among all the mining fraternity of Canada.—A D 1864,

# AROUND THE COLLIERIES.

The small fire which occurred in one of the mines of the N. S. S. and Coal Co. was put out without much difficulty and the output of the mines is again at the normal.

A St. John man declared the other day that the Halifax Exhibition had degenerated into a horse show, He said that the exhibits of some Nova Scotia manufacturers could be seen at St. John and not at Halifax. Can this be true.

Things are going along smoothly in Springhill especially about the mines, and no note of discord is heard except from the very small circle that forms around the Agnostic, the Socialist, the Old Soldier, and a few inebriates and invertebrates.

we nova Scottan and contery institution. The nope of the preferment. Mr. W.—, so rumor writer, a few days ago, was talking to an emsays, will not accept any money from the funds ployer of labor in the U.S. It happened to be of the P.W.A. for his attendance at Council the Monday after pay, and half his men were off, meeting in Halifax. That would be consistent. Off days, by the workman are not a distinctive Nova Scotian and colliery institution. The He, with emphasis, expressed the wish that pay days were once a year instead of once a fortnight.

For the first time in years the shipments for August at every one of the big collieries show a decrease. There is not a break to relieve the monotony. Springhill is not taken into account as there were no shipments in August of last year, owing to the men having decided to take a long and fruitless holiday.

The stowing of slack coal at the present time is not peculiar to Nova Scotia. In the Pittsburg district, U. S. A., owing to the slackness of the steel trade the coal producers are obliged to store slack in considerable quantities.

For the seven months ending July, Canada imported 1,561,000 tons of Anthracite coal, an increase of about 100,000 tons over the same period of 1907. Taken by itself that might look as if Canada had not experienced any set back by last falls panie. The imports of bituminous, however, tell a slightly different story. For the 7 months of this year 3,386,000 tons were imported or 483,-000 tons less than for the same period last year.

up that there was a disagreement as to which and beyond it, for high grade miners tools, such and should foot up the bills. The receiver, owing as picks, drills, punches, mauls, etc, etc. The firm to the time the mine has come into his hands will puts sound material and honest work into the not be able to do much. The mine is a valuable goods they manufacture, and therefore it is little note, and with the necessary capital to put it in wonder that the fame of their goods reaches from cape and with the necessary capital to put it in cape Breton to Vancouver. The firm is deservable. from one concern to another things got so mixed

Much of the steady work of this otherwise dull season at Springhill, is attributable to the indefatigable Assistant General Manager, Mr. David Stewart. May he keep growing.

The unsteady workmen of Springhill are simply victimizing the steady workmen, and have been for some time. In fact the situation is not a new one by any means. The whole force is expected to be at work; about two thirds turnout; and as there is neither men nor coal to run a full day, the mine knocks off, thus throwing the majority of the men out of a days work.

It is doubtful now whether Mr. Wm. Wbe the choice of the U. M. W. for resident secretary, but he himself does not appear to have lost hope of the preferment. Mr. W.—, so rumor

Ill news travels fast. I happened to be in one of the New England states the other day, and in a daily U.S. paper read a woeful accourt of the discharge of 500 miners in C.B. with many dis-charges to follow. This rather took me by surprise, as while I knew there might be slack times in the fall I did not look for them quite os sack times in the fall I did not look for them quite so soon. They say times in the States are improving by degrees; if that be so they must have been far worse than we here in N. S. had suspected.

The Record had calculated on a majority of I6 for the P. W. A. The majority in the Council resolution was 21 or 5 more than we had counted weeks slack has been sold in Pittsburg as low as resolution was 21 or 3 more than we had counted 40cts, per ton. The operators are now storing it in hope of an advanced price in the winter.

For the seven months ending July, Canada

For the seven months ending July, Canada

Solution was 21 or 3 more than we had counted to 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the counter of the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows that the 1. This is a gratifying sign and shows the 1. This is a gratifying sign and shows the 1. This is a gratifying sign and shows the 1. This is a gratifying sign and shows the 1. This is a grat very properly challenged the vote. Gd. Master McNeil then took the heroic step of ordering a standing vote, which increased the majority for the P. W. A. by two votes.

J. W. Cumming, the Nova Scotia mine tool maker had again a display of the goods manufactured by him at the late Provincial Exhibition, The trouble which has been brewing at the Mabou Mines for the past two months came to a make the same to a make the same to a short time ago, and the mine is now in the trust, it may be said of J. W. Cumming, pater, hands of a receiver. In the process of evolution and of his son, who is his fathers able lieutement, hands of a receiver. In the process of that they hold the monopoly in the province, yes from one concern to another things got so mixed

## AROUND THE COLLIERIES.

The probability is that for the next four

"A non-de-script body" that is the name a Judge of the Supreme Court of Alberta gives the U. M. W. The Judge better look out or Pats and Wats will jump on him.

Operations have been suspended in the building of the bankhead extension of No. 2 slope Springhill and the surface hands are being treated to some broken time. These are the men who feel the nip of dull times, and not the miner, to judge by the time lost by the latter when he can

Though some of the socialists in Cape Breton object to the P. W. A. inculcating habits of thrift and sobriety, it is pleasing to know that the Labor party in the British House of Commons, will support almost to a man, the governments Licensing Bill. The leader of the Labor party thinks that the drink traffic is the most gigantic of all

U. M. W., and a Mr. Carter, will address a meeting in Glace Bay on Saturday night. The speak
ers, if they choose "Labor conditions in C. B," as
be well prepared when the next sittings opened their text will have a big and a grand subject but in London, one on which, being outsiders, they are severally profoundly ignorant,

1200 ft. of 6 in, steam pipe and an equal length MONTREAL of 10 inch water column is being laid in the new extension of pipe way in No. 2 mine, Springhill. This line will connect with a large pump, in the lowest sinking of No. 2, and will be able to cope with the entire water of the mine, thus freeing the immense bodies of coal left untouched to protect the sinkings. The result in out put of years of development will then be realized.

President R. E. Harris and General Manager Cantley of the Nova Scotia Steel & Coal Co. have testified by warm letter of thanks to the Dominion Coal Co, for the valuable and neighborly assistance rendered by promptly sending a corps of twenty two volunteers fully equipped with Drae-ger rescue apparatus in charge of Mr. Norman McKenzie, district superintendent of mines, and superintendent John McMahon of the rescue station.

Mr. Cantley says "I consider the apparatus to be the very greatest possible value in cases such as this or in any situation where it necessary to to work for the Inverness

pass through smoke and fire damp."
As the rescue station established by the coal company at New Aberdeen is the first of its kind to be established in America, it is gratifying to know that the Drager apparatus has thoroughly proved its efficiency under severe conditions,-Sydney Record.

Lloyd George has been visiting in Germany weeks polities will be the leading topic in all un- and went back to Britain impressed with the occupied spaces. Oratory will come spinning out German scheme of compulsory insurance for invalidity and old age. Lloyd George did not need to go to Germany to learn of a good scheme for these worthy objects. Had he come to Nova Scotia we could have shown him a scheme that would have tickled his fancy, as it is much superior to the German plan. In Germany the workmen and employers only contribute, the government bearing the expense only of management. Here three parties contribute. In this matter of aid to workmen Nova Scotia takes the lead as she does in many important matters.

In discussing the statements in the press regarding the issue of a peremptory order to the Dominion Coal Company to file its factum, Mr. C. S. Campbell, K. C., stated that the preparations made last May to file the factum covered all the work necessary, excepting final revision by leading counsel. Certain people not familiar with legal forms and practice may be misled, according to Mr. Campbell, into thinking that the Coal Company is being reluctantly dragged to trial by drastic measures of its opponents, but no one at all versed in procedure does more than smile

GOOD FOR RETURN SEPT Oct. 5th., on tickets 17 issued Sep. 17th. 18th. 18 and 19th.

19 Oct. 15th., on tickets 28 issued Sep. 28th. 29th. 29 and 30th., 1908. 30

Intercolonial Railway. WILL SELL ROUND TRIP TICKETS FROM

STELLARTON to MONTREAL

Proportionately low fares from all Stations, Campbellton and East.

## **IMMEDIATELY**

50 Good Miners, Ry. and Coal Company.

Apply at the colliery to M. S. BEATON. Inverness, Aug. '08 Manager.

## AROUND THE COLLIERIES.

There is great demand for the coal from the Victoria collieries.

The Inverness Ry. & Coal Co. is building about 50 new houses for its employees.

Two idle days in one week is something new for the Deminion Coal Co's, collieries,

Dominion No. 6 is running along smoothiy these days but on a reduced output.

Port Hood mine is doing well this season. are moving along very regularly.

No. 2 colliery, Sydney, is assuming a work-like appearance and becoming a factor as a producer.

The tunnel from Inverness mine into the 14 ft seam is progressing rapidly and soon development work will begin on that splendid coal seam.

The East slope section at Reserve has been stopped for the present, as there is not enough shipping to take away all the coal the mine can produce.

The name of the new trotting park opened on Labor Day at New Aberdeen is 'Black Diamond' Manager McKenzie's mare is in the race all the time now.

It takes a railway to give life to a town. Dom. No 12 since railway connection has been made seems to be another place. Things are being done now on a big scale.

good ventilation and plenty haulage capacity for next seasons work.

Shipping is rather dull at the Dom. Coal Coy's. collieries at present, and Dom. No. 3, which was the only double shifted colliery, is now on single shift as there is not so much coal required.

Mabou mine is again in difficulties. pumpmen, firemen and shiftmen to keep it in good repair. The mens wages are overdue but are protected by the Mechanics Lien Law, under the Mines Regalation

The Don inion Coal Co's, men with Draeger apparatus were sent over to Sydney Mines to help fight the fire in the pit, and did good work. The men who used the apparatus, express themselves as highly satisfied with the helmets and say that they are confident now, as they have had a good test.

As the Record predicted the U. M. W. propagandists were nicely turned down at the Annual Grand Council meeting of the P. W. A. The propagandists of the foreign order were out voted by about two to one. who know what the P. W. A. has accomplished, those most familiar with its working, those who can remember the old times and are able to compare them with the new will not go back on the bridge that carried them over a turbulent storm.

Development at Dom, No. 12 is progressing rapidly, Concreting for fan and engine is finished; boilers are being erected and the bank head is well under way. A village of u.iners houses are nearing completion and colliery buildings, such as carpenter, machine shops. forge, warehouse. lamp house, etc., are completed.

As sure as night follows day, so sure does it seem that a flood must follow the fires in the coal mines of The lower section of Sydney No. 1 had Cape Breton. to be flooded to put out a fire kindled by a shot. was fortunate that the fire was in the lower part of the Things mine and easily flooded.

The Mines Department, Halifax, taking advantage of the visit of the British Sub-marine Experts had them visit Sydney Mines, Inverness and Cumberland. student part of the mining population look forward with much interest to a perusal of the report of these men, as very little has been published on sub-marine mining, and the question in Cape Breton is a big one.

The Sydney Posts' Halifax correspondent says the vote, so largely in favor of the P W A, was not expected. This is a confession that the Posts' correspondent does not know the Mining Record and to confess to not knowing the Record is a confession of inexcusable Why, even Peter Patterson and Wm. Watkins know it, though in reading it they do good to themselves by stealth, neither name being on the mailing

This seems to be the year of the searchlight. Lately it has been turned on the Cape Breton industries and First came the politicians, next workers in full force. A new haulage engine and also a new Walker fan came the Canadian Mining Institute with the Nova are being erected at Dom. No. 6, preparatory to having Scotia Institute and two submarine coal experts, and now we have to record a band of Italian Naval Officers, The politicians viewed and reviewed everybody and everything. The engineers and coal men viewed the collieries plans and strata, also the steel works. The Italian officers inspected the condition of the Italian mine workers, who declared themselves satisfied with their condition only the town was too dry.

The Montreal Star's special correspondent wiring local government has taken hold of it, placed officials, that paper from Halifax anent the proceedings of Grand Council, P. W. A. says, in part :

"Just as soon as the Grand Council places itself on record on the issue the United Mine Workers will come into the province and apply for a share of the P. W. A. defence fund equal to what they have contributed. The P. W. A. will decline and a suit will be instituted in the Courts"

The despatch is very curiously worded. M. W. are going to claim only what it contributed, the matter will not be a difficult one for the Judge. contributed nothing and their proportion is of course nothing. Admit for arguments sake that certain members in favor of the U. M. W. claim a portion of the defence fund. Is any Judge likely to give it them, scarcely. The proposition is absurd. Suppose 20 members ly. The proposition is absurd Suppose 20 members of the C.M.B. A. at Bridgeport, Caledonia or Dom. No. 2 becoming disgruntled resolved to join the Sons of Temperance, would not the societies laugh them to scorn if they demanded a proportion of the sums they had contributed for some special work of the order. The defence fund is that of the P. W. A. and of it alone.

# Amalite



This advertisement will bring to your attention the best and cheapest ready roofing on the market. Here is how we prove it the best.

In the first place Amatite is made in one standard thickness, whereas other ready rootings range from a thin, flimsy half-ply to a three-ply thickness.

The three-ply thickness (which by the way is only one sheet of felt) is the only kind that can be compared with Anatite.

But right here is the point. Amatite is better made, has better water proofing material, and weighs more per square foot than the three-ply grade of other makes, and costs much less.

These facts make Amatite the most desirable roofing made,

But in addition to its superiority in material and manufacture Amatite has one distinction which makes it stand out above all others. It has a real It is hardly necessary to state the advantages of such a mineral surface, the freedom from painting or coating, the perfect protection [against all kinds of weather, the great durability.

This mineral surface is embedded in a layer of Pitch, the preatest known waterproofing maternal, Beneath this in turn are two layers of the best grade of wool felt—cemented together by more Pitch, making the whole a roofing that is absolutely waterproof.

No other ready roofing can compare with this mineral-surfaced, water-proof, durable roof. That's why we say— 'Don't buy your roofing until you have seen Amatite.

### Free Sample & Booklet.

Send for Free Booklet and Sample to-day, It will pay you to get acquainted with Amatite. Address nearest office.

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

A firkin of butter two centuries old has been dug up by a farmer at Tyrone. The hoops and staves of the firkin collapsed on being lifted, but the butter is in a perfect state of preservation.

## "FENERTY" SHOVELS

Miners, Contractors and Heavy Work,

## "GILMOUR" SHOVELS

General Purposes,

## The HALIFAX SHOVEL Co

HALIFAX, N. S.

ALL GOODS GUARANTEED.
SPECIAL SIZES and SHAPES MADE TO ORDER.

## BRATTICE CLOTH

TARRED AIRPROOF

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As Used by the Leading Scotch-English and Welsh Collieries.

PROMPT DELIVERIES.

DRUMMOND, MCCALL & CO.

MONTREAL and LONDONDERRY, N. S.

# Plumbago for all

Purposes.

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The

Dominion Foundry
Supply Company,

Montreal and Toronto.

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Westinghouse Motor Driving Dayton Turbine Pump.

A Motor exactly suited to the conditions is essential in the correct solution of any power problem. A wide selection is afforded by the many types of Westinghouse Motors, among them you are assured of finding the motor to exactly meet your requirements,

## CANADIAN WESTINGHOUSE CO.

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Have Excellent
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WILL NOT COOKLE

Best for\_\_\_

SPRING AND SUMMER SHIRT WAIST SUITS.

All Ladies who wish to look we wear Priestlys Dress Goods.
Greenshields Limited, Sole Agents.



Manufacturers of H, & H. Coal Cutters & Tornado Coal Drills

Belleville, ILL., U. S. A.



## Synopsis of Caradian North-West.

### Homestead "Regulations.

A NY even numbered section of Dominion Lands in Manihole or two North-ward Provinces, accepting 8 and 26, not reserved, may be homestended by an out-province accepting 8 and 26, not reserved, may be homestended settent of one-quarter section, a family, or make over 18 years a sage, to the Application for entry must be made in person by the applicant at a Dominion for the Application of the

As a state, mother, our, daughter, brother or sister of an intending home sheader.

An application for entry or cascollation made personally at any Sadagest's office may be wired to the Agent by the Sub-agen, at the explosion the applicant, and if the land applied for Is vacant on receipt of the telegram, and if the land applied for Is vacant on receipt of the telegram, any sperse to complete the british and the land will be held until the necessary sperse to complete the relief of the state of the special control of the state of the special control of the state of the special control of th

f.
en an entry is cancelled subsequent to institution of cancellation props, the applicant for cancellation will be entitled to prior right of entry.

Applicant for cancellation will be entitled to prior right of

Applicant for cancellation must state in what particulars the homestead

is in default.

energy.

A homesteader whose entry is not the subject of cancellation proceedings.

A homesteader whose entry is not the subject of cancellation proceedings and subject to the approach of Department, relinquish it in flarer of father, and the proceedings of the process of the

### W. W. CORY. SYNOPSIS OF CANADIAN NORTH-WEST\_MINING\_REGULATIONS\_

Cost. Coal lands may be purchased at \$10 per acre for soft coal Tand \$20 for antiquette. Not more than \$20 acres can be acquired by one individual or exceed on the great at the rate of ten costs per not of 200 pounds Snall be colceded on the great at the rate of ten costs per not of 200 pounds Snall be colceded on the great soft of the soft

\* Horries.
The fee for recording a claim is \$5.
At least five must be expended on the chaim each year or paid to the mining recorder in the thereof. When \$500 has been expended or paid, the location way, upon having a survey made, and upon complying with other requirements, purchase the land at \$1 per acre.
The patent provides for the payment of a royally of \$1.5 per cent w. the state.

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

# Miners Wanted BULL DOG TOBACCO.

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

### TRY IT!

The St. Lawrence Tobacco Co., Ltd. -Montreal.--W. B. Reynolds, Halifax Representative-

#### Brick! Brick!

The Westellar Terra Cotta Company having taken over the business of the Stellarton Brick and Tile Co'y, and having installed more powerful and modern machinery, WILL BE PLEASED TO HAVE ENQUITES AS TO

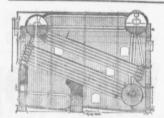
PRICE AND QUALITY. Works - SYLVESTER

Head thee-STELLARTON.

GEO. E. MUNRO, SEC'Y, WESTVILLE, N. S.

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## WATER TUBE BOILERS



FREE EXPANSION OF TUBES.

PERFECT WATER CIRCULATION.

DRY OR SUPERHEATED STEAM HALF THE USUAL NUMBER OF HANDHOLES.

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Manufacturers of all Descriptions of

BEST QUALITY ONLY.

Blasting Powder and Compressed Pellets, Dynamite, Gelignite, Gelatine, Dynamite and Blasting Gelatine.

## PERMITTED EXPLOSIVES.

For use in Gaseous mines. Suitable for all Kinds of Work

Bobbinite, Curtisite, Excellite, Kolax, Rippite, &c., &c.

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Supplies of all Explosives to be obtained from

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Contractors to Admiralty and War Office, also Colonial Governments.

Clyde Patent Wire Rope Works,

Cablegrams: "Rutherglen, Glasgow, Scotland. Codes, A.B.C. (4th & 5th Eds)
"Ropery Rutherglen" Rutherglen, Glasgow, Scotland.

# WITE RODES Winding & Haulage in

Collieries and Mines. Aerial Ropeways, Suspension Bridges, etc. Specially flexible for Ore & Coal Discharging Cranes, Winches, etc.

The Nova Scotia Steel & Coal Co., Ltd., who use our Ropes largely, write that one of our Haulage Ropes at Wabana Mines has been in service for over 5 years, drawing over 1,700,-000 tons in that time and is still good for further considerable service.

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WIRE ROPE CO...

CO., Ltd., Montreal

# INVERNESS IMPERIAL COAL

Inverness RAILWAY and COAL COY.
Inverness, Cape Breton.

Miners and Shippers of INVERNESS (BROAD COVE)

Screened, Run-of-Mine Slack.

-First Class both for Domestic and Steam Purposes.

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

Apply to Inverness Railway and Coal Company, Inverness, Cape Breton; Wm. Petrie, Agent, Port Hasting, C. B. INVERNESS RY. & COAL CO'Y

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

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Burns and Works like Bituminous;

Looks and Lasts Like Anthracite; it has no equal.

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Miners and Cow Bay Basin Coals.

EXCELLENT FUEL FOR

# Domestic, Steamshipand Railway Use.

Recent analysis of the coals in several of the seams in this Basin—which will be persistently developed—show them to be remarkably low in ash and sulphur. All modern appliances for Screening and picking, so that this coal can be shipped more than "reasonably free from stone and shale."

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PATENT WATER TUBE BOILERS.

Over 7.000,000 H. P. in use, Fired with all kinds of Fuel Steam Superheaters, Feed Water Heaters, Mechanical Stokers, Coal Conveyors, Steel Chimneys, Water Softeners and Purifiers, Electric Cranes, Piping.

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Rule and Print Special Blank Forms for Mining and other Industrial Corporations. BLANK BOOKS ruled to pattern and made in any Style of BINDING,

Loose leaf supplies of all kinds made to order.

Best all round flour on the market. Uniform in quality. Every barrel

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Air Compressors, Rock Drills, Imperial Pneumatic Tools, Air Appliances, Coal Cutters, AIR MACHINERY."

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The most durable and satisfactory Packing on the Market

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Miners and Shippers of the

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Unexcelled for Steam, Domestic and General Purposes. DELIVERED BY RAIL OR WATER. SHIPPING PORT: PICTOU LANDING.

Quotations Furnished Promptly on Application.

# MARITIME COAL, RAILWAY & POWER CO. Ltd.

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**High Grade** Steam

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Unexcelled for General Use.

Shipment by Intercolonial Railway and Bay of Fundy Colleries., CHIGNECTO and JOGGINS Power Plant, CHIGNECTO, N. S.

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# Coal and Gold Mining Machinery a specialty

Endless Haulage Engines, Revolving Tipples, Picking Tables and Com. plete Screening Plants for the Cleaning and Picking of Coal. Rope Wheels, Pumps, Valves, Shafting, Belting Etc.

Complete equipments furnished for Coal or Cold mines.

Screening plants are now in operation at Sydney, Springhill, Broad Cove Port Hood and Westville Mines

Estimates Cheerfully given

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COAL

High Grade Fuel for Steam, Domestic and General Purposes.

COKE

From Coal Washed by Latest Process, Growing more popular daily—and considered to give as good results for Foundry purposes as the United States Article.

FIRECLAY

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Better than Scotch seconds for Ladle lining etc.

SHIPMENTS BY RAIL OR WATER.

INTERCOLONIAL COAL MINING CO., LTD.,
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HADFIELD'S STEEL SHEFFIELD



STONE CRUSHER.



CAST STEEL BRONZE BUSHED. SELF OILING

## WHEELS & AXLES

WE MANUFACTURE
CRUSHING ROLLS,
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(Solid Steel Construction.)

The Parts which are subject to Excessive Wear are made of

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THE IDEAL MINE HOIST

The Cheapest and Most Satisfactory Power for Mine Hoisting.

Can be started and stopped instantly.



Consumes fuel in proportion to the load, and only when it is in operation. Engine can be detached and used for many purposes, such as sawing wood pumping Water, etc. . . .

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Cannot be Excelled for HIGH CLASS QUALITY and WORKMANSI They are made of the very best brands of English Bar Iron and by Selected Workmen.

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Coupling Chains and Solid Forged Draw Bars -For Mine Cars, A SPEC

This 11" Draw Bar Coupling Chain broke at 48 tons, 12 cwt., 0 qr., 0 lbs.

The Admiralty Strain is 27 tons, 10 cwt., 0 qr., 0 lbs.





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FRESH MINED SPRINGHILL COAL

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Moisture	27.93 % 67.47 %	2.71 % 28.41 % 64.69 % 4.19 %
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The year Round

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N. S.

# Dominion Coal Company, Ltd.

Miners of Bituminous Coals, the celebrated "Reserve" coal for household use, "International" Gas coal, and the best Steam coal from its collieries on the Phalen seam.

-Yearly output 3,500,000 tons.-

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CARBON		STEA	м Со	AL.		GA	s Co	AL
			per.	cent.	77	51	per.	cent
NITROGEN	 7	34	16	- 61		72		
			"	**	1 2	27	"	"
WATER			"	**	4	10	"	"
		35	"	"	2	11	"	11
	100	00			100	00		

Calorific Power of Steam Coal :- Pounds of Water evaporated from 212 per cent Fah, by one pound of the coal as determined in Thompson's Calorimeter,-14.8 lbs.

Shipping facilities at Sydney, and Louisburg, G. B., of most modern type. Steamers carrying 6000 tons loaded in 24 hours.

Special attention given to quick loading of salling vessels. Small vessels loaded with y quickest despatch.

# BUNKER COA

The Dominion Coal Co. has provided unsurpassed facilities for Bunkering Ocean going Steamers with Dispatch Special attention given to Prompt loading Steamers of any Size are bunkered without detention.

By Improved screening appliances lump coal for Domestic trade is supplied of superior quality.

Prices. Terms, etc. may be obtained at the Offices or the Company.

# ALEXANDER DICK Genl. Sales Agent, Glace Bay, N. S., Can.

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