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Pictou.

Cape Breton. * Inverness

New Series Vol. 10 No. 24

JUNE 24th, 1908

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	66 Express for Pictou	

-TRAINS ARRIVE AT STELLARTON	
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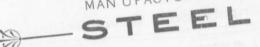
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-LICENSES TO SEARCH-

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

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We invite inquiries, which will have our closest attention.

 Matheson & Company, Limited, ENGINEERS,

New Glasgow, . . Nova Scotia.



Vol. 10, No. 24. Stellarton, N. S., June 24th. 1908. New Series

COAL MINING IN PICTOU COUNTY.

BY H. E. COLL

(In Engineering and Mining Journal.)

The Pictou county coalfield occupies a valley lying between two prominent lines of hills, running east and west, and is drained principally by the East river, which cuts the field at its most productive point. The tide runs half across the field, and to the east and west than drises to about 250 ft. above sea level, at the farther ends of the field. The land is rolling and is made up of heavy glacial deposits, the drift in places attaining a thickness of 75 feet.

Little has been added to the series decreased in the field and the series of 75 feet.

GEOLOGY.

In Part B of the 1902 Geological Report, Fletcher gives the following classification in descending order:

Upper red sandstone and shale group with thin bands of limestone.

Permian Middle gray sandstone and shale group with

small coal seams.

New Glasgow conglomerate, (Coal measures,

Carbonifercus Millstone grit, Carbonifercus limestone, Carbonifercus conglomerate.

Devocian (Upper red slate and shale group,
Middle gray slate and shale group.

Immediately north of the supposed limits of the field is a heavy conformation known as the New Glasgow conglomerate. This rock does not interfere with an extension of the field underneath the newer measures, but it nas long been recognized by geologists that the field on the north is cut off by an extensive tault, which marks the division between the conglomerate and the coal measures. Whether this fautting has completely destroyed these measures is still open to proof, and until the time when properly placed bore holes will be put down, it will remain undetermined. The total thickness of the productive measures amounts to about 12,000 ft. To the south they ie unconformably:

mirror. No dislocation of the shales takes place, and apparently the rolls are due to lateral pressure, traveling in lines parallel to the strike. Travelling down toward the basin, these rolls become heavier until reaching the bottom, the rock breaks and the basin is cross-bya "down-throw" fault. This is the only point where actual dislocation of the rock occurs. The other series of faults are in the form of pinches and run parallel with the strike. These constitute much more serious draw-backs to the mining of the coal than do the north and south rolls. They are only found along the high dips and are heaviest on the norte side of the field.

The district has been a geological battle ground for almost 50 years, and has been the subject of numerous papers, and reports. Little has been added to the knowledge of the field and in several instances, relating to faults, actual development has proved that they are of little importance and do not attain any magnitude, Of these faults, the most interesting are, the McCulloch, given as over 2000 ft., the Potter Brook, the Mill Race and the Lawson. For years these faults dominated over any development of adjacent sections until the several companies were lorced by actual need of coal, to push their sinkings further down, so that to-day all of these faults with the exception of the Mill Race, have been passed through by the mine workings and have lost their field importance.

The following is a condensed section showing the seams on the east side of the East river, in what is known as the Albion section;

Strata. Black shale and sand- stone bands	50 ft.	(200 ft.
Strata, Gray shale and sand- stone	22 ft.	150 ft.
Third seam	6 ft.	120 ft,
Purvis seam	3 ft.	125 ft. 140 ft.
Strata	4 ft.	5 ft,
McGregor seam Strata Stellar seam	5 ft.	210 ft.
Total		

200 ft.

12 ft.

Strata		115 H.
Coal	6 ft.	go ft
Strata Coal	8 ft.	90 10
Total The Vale district on the east ha	43 ft. as the follow	405 ft.
ion on the crop. McKay seam	3 ft.	100 ft.
StrataOil shale	8 in.	500 ft.
Strata Vale seam	3 ft. 6 in.	700 ft.
Strata McBean	8 ft.	37 ft.
StrataCoal	2 ft.	31

17 ft, 2 in. 1337 ft

There are other seams occupying local basins above the McKay bed. This Vale section is the largest of the three, if taken complete, but owing to the seams being smaller than the Albion section and the outcrop coal of poorer quality, little attention was paid to the develorment of this latter section until within the last three years. At this time it is realized that the Vale section will be the main producing one of the field in a few years' time.

HISTORICAL

Coal in Pictou county was first discovered in 1798 and the first mining was done in the MacGregor seam about 1801. Shortly after this, the Ford seam was discovered by John McKay, who shipped coal to the garrison and navy at Halifax during the war of 1812. Between 1812 and 1825 the production amounted to about 3500 tons a year. In the latter year, the British government leased all the reserved mines of Nova Scotia to the Duke of York for a period of 60 years. The Duke transferred the lease to a jeweller's firm in payment of his debts, and from them it was received by the General Mining Association who at once commenced operations to develop the Albion section. On Dec. 7, 1827, the first coal to be hoisted by steam power in the Province was taken from the "store pit," which was sunk 212 ft. to the Ford seam. In 1832 the first of a long series of fires and explosions occurred. In 1839 another fire got beyond control, and the workings were abandoned. Other pits were sunk successively to the dip, the deepest being about 450 ft., and the coal mined to the rise. Explosions and fires occurred in 1861, 1863 and 1867, and in February of the latter year the last of the "bye" pits was abandoned. In 1850 the Dalhousie shaft was sunk to the Ford seam, and worked entensively until 1872, when the whole mine was severely squeezed and was later abandoned.

The Ford seam was first developed in 1866 and worked until 1880, when an eruption of water from the old workings killed six men; this accident was tollowed a month later by an explosion killing 44 men, and setting fire to the mine. Some of the bodies are still in the dip workings. It was found necessary to admit water from the East river and the plant was abandoned for several years. In 1890 the water was pumped out and an effort made to develop the lower section of the seam, but owing to trouble from the old fires, it was once more abandoned. In the meantime other mines were

being opened up. The Drummond slope was put down in 1868, and in 1873 an explosion took place killing 59 men, and causing the temporary closing of the mine. In 1872 the McBean seam on the eastern edge of the field was

opened up and worked extensively until in 1885 an exlosion took place killing 13 men. Two years after this fisaster the mine was abandoned, being at present full of water. In 1886 the Vale seam was opened, but the crop coal being of such poor quality, developement was not pushed for a number of years. At the present time the Vale mine enjoys the distinction of working the only seam of coal in the field which has not had an explosion or fire.

PRESENT CONDITIONS

At the present time the principal coal areas are held by the following coal companies: Intercolonial Coal Company, 9 sq. miles, operating

at the Drummond mine, Westville. Nova Scotia Steel and Coal Companyf 3 sq. mile,

operating at the Marsh mine, Coalburn. The Acadia Coal Company, 16 sq miles, operating at the Acadia colliery, Westville; the Albion colliery, Stellarton; the Allan shafts, Stellarton; and the Vale colliery, Thorburn.

The shipments for county during 1907 are divided as follows:

Intercolonial Coal Co.....274,388 Acadia Coal Co., Ltd......321,912

The Marsh mine coal is used at the steel mills in Trenton, the other two companies have shipping piers at Pictou harbor, which will accomsdate boats up to 5000 tons capacity. Both companies are in a better position this year than ever before in their history, which speaks well for a field that has had 100 years of service and that coaled the first steam vessel that crossed the Atlantic from Canadian shores.

The six mines now being operated within a total distance of nine miles, have dips ranging from flat to 80 deg., and sonsequently each mine has two or more different methods of taking out the coal. Bord-andpillar work by means of self-acting planes with rooms driver to the rise off main levels, has been the standard for mining the coal in Pictou county. Longwall has been used successfully in the Drummond and Acadia mines for a number of years, and owing to the nature of roof ard bottom much better results can be obtained in working all the seams by longwall. The weight of the surface in the deep workings seriously interferes with mining the coal by bord and pillar.

With the exception of the new Allan shafts all the operating mines are slopes, which average between 20 and 30 deg. from the horizontal; in length the Drummond slope exceeds 7000 ft. Millions of tons of coal have been lost by fires, explosions, creeps and crushes, and many lives have been sacrificed, all brought about by carelessness on the part of men and management, and a general lack of proper methods for mining the great thickness of the Ford Seam,

To-day coal is being mined 1500 ft. below sea level from seams noted for the amount of gas they give off and the large quantity of dust that is made. The fact that these operations are being carried on successfully is due to the excellent mine laws and special rules of the companies, and the rigid discipline that is observed underground by the mine management, Safety lamps, mostly of the 'Wolf Magnetic Lock Type,' are used exclusively. All powder must be approved by the Government and known as a 'safe powder.' Holes can only be fired by shot-firers who pass an examination and receive a certificate before being appointed to service.

No fast shots are permitted, and the number of holes

method of charging and shooting, and the timbering of are the only collieries where the same rates are paid working faces, are all rigidly controlled by the mine of- throughout ficials. Each face must be examined for gas before any shot can be fired. Heavy feeders are often struck which are strong enough to foul a whole air corrent. The writer has seen a teeder giving off sufficient gas to flame in a lamp, after mixing with a 25,000 cu. ft. split from the main air current. Since the workings are below sea level, the flow of gas in relation to the falling and rising of the barometer is extremely noticeable, and in fact the majority of the mines regulate the speed of the fan by the reading of the barometer.

SYDNEY MINES CONCILIATION BOARD.

it should be given all the publicity possible. We have the more important part-from our point of view :-

"The Nova Scotia Steel & Coal Co., Limited, sub- abroad. mits the following statement, in compliance with

Clause 19 of the above named Act.

pany for all the different classes of work in and about its various collieries is as great as that paid at other similar collieries in the Province of Nova Scotia.

2. There is nothing whatever in the coal trade at pany to keep its iron and steel plants in operation. the present time to warrant the granting of any in-

would still further reduce the profits and make it very out Canada and the United States have also been forcecontinue the progressive policy which it is pursuing in sary. further developing its coal properties.

4. Large numbers of the colliery employees of the company are at present earning larger wages and receiving steadier employment than are enjoyed by other workers throughout the Dominion, engaged in equally laborious and dangerous occupations, and the Directors of the company have for some time believed it to be necessary, in order to justify them in continuing mining operations, that some reduction should be made in

the prices paid for some classes of work.

5. Mining operations have been carried on at Sydney Mines for the past seventy five years, or thereabouts. One result of this is, that there are a large number of old men employed in and about the collieries, particularly the No. 1 which is our oldest colliery, and the average earnings per day for coal cutters is materially decreased owing to the fact that the old men are not able to produce as many tons as ordinary min ers. This also applies to shiftsmen, roadmen, wastemen and other classes of underground labour, and if these rates are increased it will be absolutely impos-

ferent heights of coal at Nos 1 and 5 collieries are as high as at any other colliery in the Province, with simfight conditions, and the same tonnage prices are paid for drawing of pillars as are paid for room work. The for drawing of pillars as are paid for coom work.

Nearly fifty per cent. of the total output of No. 1

colliery is from pillars.

 The present depressed state of the foreign coal trade has very seriously increased the competition this company has to meet in its largest market, the province of Quebec, and any increase in the cost of mining coal will seriously handicap the company in meeting this foreign comsetition

8. This company occupies a unique position among the coal mining companies of this province, in that it is a large consumer of the output of its own mines. From January 1st to April 30th, of the present year the company used 30 per cent, of its total output of As the Nova Scotia Steel and Coal Co's, statement coal in operating its iron and steel plants; and the iron to the Labor Department contains much information and steel department of its business has always been seriously handicapped by the high cost of its coal as not space for the statement in full and therefore give compared with the low price paid by its competitors in other iron and steel works, both in Nova Scotia and

9. As is well known, the iron and steel trade of Canada is now greatly depressed; the demands for fin- The general average of rates paid by this Com- ished products are few and small in volume. Excessive competition has reduced the price in some cases below actual cost of production, and any increase in the cost of fuel will render it impossible for the com-

10. The earnings of this company are dependent crease in the wages now paid to the miner or laborer, on the successful operation of all its undertakings, and 3. The returns on the capital invested in the col- the prices and demand for the finished products of the lieries of the company for the last few years have been company have so fallen off that the company has been forced to suspend some of its operations, as other erials) entirely inadequate, and any increase in wages companies producing the same class of goods throughquestionable wisdom on the part of this company to ed to do, and further curtailment may become neces-

Under the circumstances mentioned in this statement, this company, while anxious to avoid anything in the nature of a strike, or any difficulties of any kind with its employees, emphatically protests against any Conciliation Board, because it will be absolutely impossible for this company to grant any concessions which will, in its opinion, increase the cost of mining

If in the face of this protest of the company, its employees insist upon pursuing this matter, the company will have no alternative but to refuse to accept any award the effect of which in its opinion increases the present cost of producing coal, and for this reason it respectfully declines to appoint, or to recommend any appointments to the Board of Conciliation.

At the same time the Directors wish to say that while they can not accept any award that may have the effect of increasing the present cost of mining coal, they are willing to consider the readjustment of the wages of the employees of the company, the price paid sible to provide this older class of workmen with em- by their workmen for coal, and all other matters conyment.

nected therewith, provided that such readjustment does not increase the cost of producing coal.

We desire to point out in connection with the demand which has been made by the lodges :-

custom in other collieries is to pay lower prices for or men paid by the ton at the different collieries after pillar work than for room work, and we believe ours making deductions for explosives are as follows:-

	19	908	3	Jan.	Feb.	Meh.		Avr.
Miners	No.	1	Col.	2.54	2.45	2.60	2.47	2 51
Miners	No.	5	Col.	2.99	2.97	2.84		2.95
Drivers	61		6+		1.84	1.84		1.83
. "	11	5	- 66	1.71	1.76	1.74	1.76	1.74
Shotfire	PR 44	3	46	4.02	4.20	4.51	4.52	4.31
Mach. B			16	4.57	4 63			4.50
Loaders			**	1.93	2.03	2.14		

2nd. In addition to the above, householders engaged in work in and about the collieries are given our best coal for household purposes at \$1,00 per ton delivered at the coal yards. This price bears no redelivered at the coal yards. lation to the cost of production, and is but one-third the regular market price. The quantity of coal sold to employed. As arbitrator under this Act, however, he workmen at this price during the year 1907 was 11, 806 tons, and represents a direct loss of \$20,000 to \$25,000 per year to the company.

To be appreciated this might be stated as follows:-The daily output of our coal mines averages about 2,000 tons, so that our collieries are required to work six days of the year to get this coal and twelve days

additional to make up the loss to the campany selling the coal at this price.

3rd. Our collieries known as Numbers 1 and 5 are very expensive collieries to work. No. 1 is a very old mine, and the coal is now being worked a distance of about one mile from the shaft bottom and is raised expensive colliery to operate in Cape Breton. To add holding our market.

4th. To add anything to the present selling price

to day laborers, the company is at a loss to know the day. If it does not mean all men paid by the day, the company, gave notice of appeal. what classes or divisions of labor is it intended to cov er? There are about fifty sub-divisions or classes of workmen in connection with our coal mines, such as deputies, shotfirers, roadmen, pipemen, pumpmen, onsetters, landing tenders, drivers, enginemen, mechanics, blacksmiths, carpenters, masons, teamsters, screenmen,

A MINER AND HIS PIPE.

At Walsall County Court Judge Smith gave his reserved decision in a case under the Workmen's Compensation Act, in which Alfred Darrall, miner, Highdescend the pit, but afterwards went to the back of a eabin to hide his pipe, which he was forbidden by the Mining.

regulations to take with him into the workings. was stooping down to place his pipe in a hole in the ground when a loose strand of wire on a haulage rope caught his coat sleeve and drew his left arm into the haulage wheel, with the result that it was cut off at the elbow. His Honour said the point he had to decide was whether the accident arose out of, and in the course of, the applicant's employment. Mr. Joy, council for the respondents, requested him to answer this as a 'man in the street' and with the bare words of the section before him he should have given a reply in the negative, and said the man was injured whilst endeavoring to hide his pipe, for which purpose he was not had to apply the section as interpreted and explained by high judical authority and the cases to which his attention had been called appeared to establish that, although a workman, when injured, might not be actually engaged in the work he was employed to do, if he was doing something directly or indirectly furthering the course of the employment, or having relation to his employment for the benefit of his employer, then he came within the section, although his action might be foolish or even amount to negligence, as in It was obligatory on the applicant to disthis case. pose of his pipe, and he, (the Judge) thought it was clear he so disposed of it in the course of his employ-800 feet to the surface. It is, without doubt the most ment, and for the benefit of his employers. It was contended for the respondents that the applicant should to the cost would mean a decided advantage to our have left his pipe at home, but a similar argument competitors and would further reduce our chances of might be applied in the case of a person employed at a powder mill, and who met with an injury whilst removing his boots to put on slippers. It might then of coal would be most prejudical to the interests of have been argued with equal force that the man should coal mining generally as the general public now be- have gone to the works in his slippers. As regarded lieve they are paying too high a price for this commod- the second point raised, which was the amount per ity, and considerable agitation has been aroused and week at which the applicant was being remunerated, ecntinues to be directed against the operators, whilst it was contended for the workman that holidays and the fact really is that the profits made from the oper- days on which he was absent, either through sickness ation of coal mines are entirely inadequate to the cap- or because there was no work for him to do, should be ital invested, and in some instances the operations are regarded as working days, when the rate of payments would have averaged 28s. a week. He, however, did resulting in actual loss to the operators.

would have averaged 28s, a week. He, however, did

5th. In the demand for fifteen per cent. increase not accept this method of calculation and made an award of 12s. a week .- On the application of Mr. G. what the term 'day laborers' means. If it means all Hillward, who appeared for the applicant, costs were workmen paid by the day we do not understand why allowed on the highest scale, in view of the importance they mention mine mechanics, who are also ρaid by of the points raised. Mr. E. Evans, who appeared for

TIDAL POWERS.

We hardly appreciate the value of the silent tide as it runs more or less swiftly up and down our harbours and rivers. Yet there it is, always in action, a living power of latent strength, which has existed ever since the world began. It cannot be said to be out of date on that account, since we still have to reck-The tide may be said to serve to float vessels, to carry away sewerage and other refuce, also to flood certain areas for sluicing purposes. But, along town, Cannock, sought an award against the West every sea board the want of its application, as a mottown, Cannock, sought an award against the West every sea count the want of its application, as a note Cannock Colliery Company, Hednesford. Applicant ive force on wheel and turbine, displays a wilful waste was a roadman employed by the company, and on Yet the part of an industrial generation. Yet the possibilities of tidal power—if we could but January 30th. last obtained his safety lamp ready to bridle the 'sea-horse'—are immense.—S. and A. of descend the pit, but afterwards went to the back of a

MARITIME MINING RECORD.

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STELLARTON. N. S.

JUNE 24

*********************************** - Rubs by Rambler.

Though Nova Scotia and New Zealand had compulsary arbitration acts on their statute books for nigh a score of years, it cannot be said that arbitration, voluntary or compulsory, was ever in high favor with trades unionists. I may qualify the reference to Nova Scotia by limiting her arbitration act to the past. We have not now what I would call a compulsory act, for in the case of the workmen there is not now a penalty worth calling one attached. The politicians thought they were doing something for the workingmen when the penalty for non compliance with any award was reduced from fourteen days pay to the sum of one dollar. There is no terror the Act was passed in Nova Scotia neither men nor masters were in love with it, and it never came into general use. However it was not much required, as for the past twenty years trade disputes of any importance have been of rare occurrence here. The time is coming when the people will demand that industrial strife shall cease. The great lockout in the ship building trade in Britain has produced an unexpected result. converted trades unionists to a belief in compul-When our own ox is gored we sory arbitration. begin to stand up. The lockout is too powerful a weapon, therefore it must be put out of service. A writer in a British paper favorable to trades unions says :- "We assert and shall continue to assert that compulsory arbitration is not only required, but an absolute necessity, and the next Trade Union Congress will seriously discuss that And so the world moves, no matter if it is slowly. There are still some foolish fellows in trades unions who think the ideal way of settling differences is to 'strike.' There is hope, however even for them.

the press, and among the general public, ready in season and out of season to denounce the coal op-

general, we never hear a word of government operation of stock farms and dairies. Are the operators attacked because they are few and feeble, and are the ranchmen and dairymen allowed to go scathless because they are numerous and therefore politically powerful. Are the supposed re-formers after all, nought else than backboneless shouters. Coal, they tell us, is a prime necessity and therefore must be moderate in price; at the same time they forget to tell us that beef is vital to our physical equilibrium, and ought also to be within the purchasing power of the people, at present it is not, though there is not a whisper calling for a commission to exquire into its high Let it be admitted that coal in the last twenty years has advanced in price thirty three per cent. How is it with steak and meats generally? Why they have gone up about three hundred and thirty three per cent. when the price has not gone out of sight altogether. would like to know what has come over Kendall. He tried experiments in providing the Britishers with fresh fish, and the people of N. S. with cheaper coal, but how has he, while attending to these things omitted the weightier matter of beef. Milk and butter and beef are at an outrageous price, and there is no one to kick. Isn't that a trifle strange? Why don't the reformers and the public utilities men and a certain class of politicans go at beef? Ah, my friends, they are very careful as to the goring of the ox. You see its this way There are thousands upon thousands of farmers in the land, and each one of them has a fatted ox or an ordinary beef cow. And that is not it all. Each one of them, and a son thrown in, has a vote, and votes tell. They are omnipotent in tightening or loosening the reformers' tongues. This beef business is no joke, and the sooner the government takes steps to run all the to an award breaker in so paltry a penalty. When farms in the common interest the better for the people. The men at Sydney Mines, Trenton, Londonderry, etc. are very much interested in the matter, for while the price of steel is coming down and wages accordingly, the price of beef is steadily going up.

I notice "Aberdeen' appears once again in the columns of the Labor Herald. I wonder if he is the same "Aberdeen" who transfixed us on a former occasion by his flowery eloquence. last occasion be puts a brake on his 'pinions' and doesnt soar skyward. He imagines in his latest that he is replying to 'Rambler,' but he very conveniently leaves out the important points. doesn't quite say this time that the land is the peoples and their fathers before them ; he begins to see that the so doing would make of the fathers Indians, for these held the land before the Scot or the Celt laid claim to it. 'Aberdeen', in speaking of the expropriation of the land by the capitalists, must not imagne that the white people were the original owners. The Indians were the first settlers in C. B., and the whitemen, of Why is it when we have men in parliament, in whom I suppose "Aberdeen's" forbears formed part, drove them out by better methods of warfare. The whiteman drove the Indians into small Reserves and entered upon the land, without fiterators as the real crininals in the matter of the ting compensation, from which he drove them, high cost of coal, and that there is heard the cry at and this was done in the name of advancing civiltimes for government operation of coal mines in ization, and, perhaps, it was well that it was particular and the operation of public utilities in done, and it may also be well that big companies

be given powers of ex-propriation in order the ution to that passed last September they would better to carry on business and afford employ- have no alternative, but to refuse. Conditions ment to thousands of people. This complaint a have so altered that a demand possible of realizbout not being able to secure land at Aberdeen is ation last September is not possible to-day. a piece of 'cant.' Companies have offered land think the Sydney Mines men would have displayat a nominal price, in some cases, and in others ed wisdom had they limited their demands. absolutely without cost, in order that the workmen might build homes of their own. And what

losing votes.

The demand of the Nova Scotia Steel and Coal Co's, employees for an increase, all round it is said, is untimely. It is a pity that the able bodied laborer earning less than \$1,40 cannot be given an increase, but for miners, who are making big averages, to demand an increase seems a little out of place. It is surely not possible the Sydney Mines men are making a demand for an increase on the plea that such demand was sanctioned by Grand Council last fall. When the Grand Council last September passed a resolution calling for an increase in May '08, in the wages of laborers and the lower paid mechanics it may have had full justification for its action. At that time trade was booming and there was no cloud on the industrial sky. A storm, known as the panic, burst over the country in October, and transformed the face because, then it would not be conciliation, but of things. Since that time trade has been in a why not arbitration. We have a provincial armost unsettled condition, wages in most indus- bitration act, the board of which consists of (as tries having a tendency downward, There is a fall- reported at Grand Council) two men from the ing off in the demand for coal, though luckily for government, two from the employer, and one the trade large orders had been secured before from the workmen. Now, I do not know what the depression began to be acutely felt. And yet government or party passed the law, nor when, though times are fairly brisk at the collieries It must, in my opinion, been copied from the old they are not booming as last year. For the first Roman or Jewish laws, and remains fossilized, a time in years slack coal is beginning to accumul- relic of semi-slavery days. Neither do I condemn ate at some of the mainland collieries. Were the the man that framed it; he is probably like Ne-Gd. Council asked to-day to pass a similar resol- buchadnezzar—already condemned. But I do

An issue or two back. I said that a big strike was the response? Oh, the companies were fund would never likely accomplish the object of was the responser on, the companies were thin would never help a learn on a big strike fund, I hold on the workmen, and so the offer went a might have said, was for the P. W. A to lean on a broken reed. I do not say that Unions are not the better of moderate funds for cases of emer-Manitoba electoral lists. The Globe told us that fund. If the cause is bad the big fand will not by that law a great many voters would be will- save the situation. And the position I took is fully done by partizan officers. And at the same strengthened by what has of late occurred in the time it admits that if voters are left off the shipbuilding trades in Britain. There was an unlists it is largely their own fault. The Globe contimely strike on the Tyne followed by a harsh lists it is largely their own fault. The Globe con-timely strike on the Tyde, and at other points, and tends that the lists should be kept open up till a lockout on the Clyde, and at other points, and short time before an electoral fight is waged. It the big strike fund idea was found a failure. The puts in a strong plea for time for the party list men had to give in in spite of their funds. There puts in a strong plea for time for the party list men had to give in in spite of their funds. There maker: to find out the names of all who have were five different trade societies engaged in the been left off. I take it from the Globe that a dispute. Their accumulated funds did not afeature of the Manitoba Act is self or personal mount to a million dollars only, but to over six registration. If that is really so then the Mani- and a half millions, and yet they were unavailing. toba Act is in advance of that of other provinces. The depression in trade was a factor that even a I favor the dictum "If a man does not register, huge fund could not contend against. Strike neither shall he vote." What sort of vote can be funds are sometimes a delusion and a snare. Take expected from one who won't move a foot to have the case of the Montreal Bricklayers. No doubt his name put on the list? Is he likely to vote they came out on strike depending on support intelligently? If he is indifferent in the way of from the International Union, and they were disregistration, is he not likely to be so also in that appointed, the consequence being that many canof voting. The man who will not attend to time- not find work at the old rates. Then came the cotly registration is not, to my mind, the most de- ton operatives; they too made a mess of it. Ignoring strable kind of a citizen. Why have we not com-the depression; wilfully blind to the fact that a-pulsory registration, seeing so many admit such cross the line the workers in the textile factories would be preferable to the present system of re- had been reduced, they struck, and failed. If gistration by proxy. For much the same reason workingmen in the present state of affairs can that the legislature is afraid to pass a compre-hold their own, they do well, and therefore should hensive road act. The politicians are fearful-of be careful not to take a step too far in their demands.

> The atmosphere around the locality of which Glace Bay is the centre, must be of an exceptionally stimulating quality. It sends some folks soaring. For instance it has had an inspiring efsoaring. Feet upon 'Aberdeen,'and a transporting effect on friend Fergus, The one fault with Fergus is that he whets his blade to too keen an edge. Fergus, my friend, did you ever try to cut a sheet of paper in halves, and do it straight with a knife as sharp as a razor. If you did you cannot have forgotten the tendency to run off the straight, and that's you Fergus, you're so sharp at times that you run of the edge. The following is yours, Fergus, taken from last Mondap's Herald:

"Conciliation can never be made compulsory,

blame every single member of the government, every single representative we have in parliament be he liberal or conservative, who allows it to remain in its present form, a disgrace to the statutes of Nova Scotia, and I would ask every P. W. A. man, every working man, every man no matter what his occupation or profession may be, who is interested in the industrial progress of the province, not to vote for any candidate for par-liament, no matter what his politics are, who does not promise to become active in amending this act, or in framing a new one which will give both parties to the dispute an equal representation. Then where both parties do not agree beforehand to accept the award of a conciliation board, let compnisory arbitration be enforced.

You like a candid friend, don't you Fergus, so I'll be that to you and tell you for your future good that the whole paragraph is sound and fury signifying nothing. It's a pity you wrote it. Your whole premises are wrong. I freely admit you are not wholly to blame; those in Gd. Council who told you how the Arbitration Act was worded were the sinners, and that without ex-The Arbitration Act is just as you would want it, except, perhaps, that you might wan't the government to be out of it; if you do we will not quarrel. But so that you may not fall again into grievous error, with respect to the act, let me quote section 8:

· 8-(1) The board shall consist of five persons, two of whom shall be appointed by the Governor in-Council, one by the agent of the employer who is a party to such dispute, one by the agent of the employed or division who are the other party to such dispute, and one by the persons appointed by such agents.'

to the dispute an equal representation, ' the very thing you so fiercely called for Now, calmly, Fergus, doesn't it? And if it does this you owe an apology to the old folk of Rome, Jerusalem, and Babylon. Fergus, I am afraid you were a little hasty, just as much so as David was when he called all men liars, though, by the way, you saddle St. Paul with the saying. 'If your pre-mises had only been right your handling of the subject would have been sublime, but, alas, on account of this lack, there will be people cruel enough to call your heroics, hysterics, but I won't, I am still with you, though you made a 'random' slip. For your consolation I throw you the sentiment:-"To err is human" and I wave a human hand as it speeds to Caledonia.

A correspondent writes to the financial editor of the Montreal Star, expressing the opinion that that paper is inclined to 'knock' Nova Scotia Steel and Coal, that is, bear 'Scotia.' For some time back I have been rightly or wrongly similarly impressed. The financial editor says 'No,' that so far as the steel end of the business of the comconvinced. Since the correspondent wrote there foolish, in putting in a plant fitted for modern have appeared two references to 'Scotia.' One needs. The cost was comparitively light. The was headed "Gossip on N. S. Steel" and gave the directors displayed excellent judgement in the re-

increase. There was no gossip about the shipments; the figures represented facts. The other article was headed 'N. S Steel' without the words 'gossip about' as a prefix, and contained opinions not facts. The article purported to give the quantity of coal that would require to find other markets, and the labor of pitmen that the quantity represented. These at the best were guesses. The Star should take note of the fact that while the steel end of the business suffers from the shutting down of the furnaces, and slack trade, the coal end will profit, as a better price will be had for the coal sent to market than would have been charged the furnaces, so it is not all loss. The Star is not the only paper suspected of knocking Scotia. The financial editor of the knocking Scotia. The financial editor of the Morning Chronicle is inclined to a similar policy, though he may not know it. For instance, though he told us the price in Saturday's paper at which N. S. had closed on Friday, he had to publish in Monday's issue a statement taken from Friday evenings Star in reference to the weak closing on Friday, and the opinion of a broker that there were no 'shorts' on N. S. Steel. Where was the necessity for this rubbing it in? The fact is the directors of the N. S. S. & Coal Co. are not speculators and give the stock no support, hence it is made a football. 'Scotia' is a much better proposition than many stocks more highly favored, and that will be made manifest ere long. Since writing the foregoing I notice the following in Saturday's Star, which leads me to a firmer belief in the Star's 'knocking.' Indeed it begins to look as if it took strange delight in hunting up bear stories about N. S. S. :-

'A Montreal man who knows something about Nova Scotia Steel said to the Star:-"At present Now, Fergus, does not this give both parties the rolling mills at New Glasgow are stocked with orders for four or six weeks. There is no new business coming in, and it is probable that there will not be any. The company is not laying off any men, but is not filling vacancies which occur. The axle plant is practically idle. This plant was constructed last year, and represents considerable capital expenditure. generally thought that the directors showed very little judgement in building this plant at the time when other companies were curtailing their operations. One trouble with the Scotia Company has been that its credit has been entirely too good, and money has come too easily.

The whole paragraph is misleading; some parts absolutely false First of all the 'Montreal Man's' statement as to the trade outlook is intrue. The fact is there is more business in sight to-day at Trenton than at any time during the past six months. The axle plant it is true, is not rushed, but it can afford a rest for a while, for more axles were made by it last year than by any plant in Britain, or America or for that part in any country of the world. Will the Star note that important fact. The axle plant, it is also true, pany went, the Star told only the truth, and as was erected last year, but why? Because the regards the coal end ample justice was done it, forge had been consumed by fire. A new one had Notwithstanding the Star's disclaimer I am not to be built and the directors were wise, and not shipments for May, which of course showed an construction of the forge, and no doubt would do

the same thing now had they to do it over again, ably to the good of the country" The Star can take it for a fact that the "Montreal man' if he did not speak with a bearish object in view, spoke culpably, being ignorant of his subhave seen in my life thousands who employed labor, ject. The time is not far distant when the Nova and thousands who labor, brought together and made Scotia Steel and Coal Coy. will be able, from its to work in harmony. profits on coal and ore mining, to pay steady dividends, wholly independent of any profits from the products of steel. With five collieries soon in active operation the company should be producing at over a million tons a year.

According to a Halifax despatch to the Montreal Star the Nova Scotia holders of D. I. & Steel are opposed to any peace proposals. They think that \$1.24 is an honest price for slack coal. Says the despatcher:—"There is not a mine owner in Nova Scotia but would gladly sell all his slack at \$1.24 if he were sure of a market all the year. I have never been one to believe you help labor by round". Coal it seems is the one subject on which denouncing capital. I am one of those who believe every man and boy can talk with authority. For that there is not one wrong that labor suffers which it the past five or six years manufacturers and con-did not bring on itself. I do not believe, either, that sumers generally of that class of coal have beg any of us are poor because we cannot get rich honorged to get it at a much higher figure than \$1,24 ably I believe that if labor will do its duty all the and were simply told they could not. Some misers and all the suffering that labor years ago when screened coal was universally call- from the beginning of the world will end. ed for fifty cents per ton might have been considered high for slack. With the increasing demand ered high for slack. With the increasing demand for run o-mine, slack is considered cheap at a dolhigh, (the writer expresses no opinion) the Steel company offered lately certain operators two fifty for slack delivered at Sydney. Was it solely because this particular slack was of a better quality? It may be possible that some operators might sell slack at \$1,24 for an all the year market, but it would be that sort of slack which fires without stoking-a kind that might prove more sulphurous than derided No. 6. Slack at \$1,24 is a present impossibility.

On several occasions in the Record, I have maintained that the one object of Trades unions ought not to be the striving after better wages; that that, while one of the objects, might not be the only or the chief one. The views I expressed are strongly emphasized in the following by John Mitchell of the U.S.

"I am a trade unionist. I am not one of those who believe that the trade union is the ultimate, I recognize the fact there is a great evolutionary movement going on; that it is slowly but surely changing our social life. But, nevertheless, my experience has satisfied me that the trade union movement is the best movement ever born for the amelioration of the con-

dition of those who toil "If I believed that the trade union movement stood for nothing else than securing a few cents higher wages or securing a few hours less labor, I would leave it. If I thought that is all it does, I would quit the trade union movement and I would try to start myself a and womanhood of our people, contributes immeasur- Fraser, Superintendent School for Blind, Halifax, N. S.

I am not an old man yet, but I have seen many practical results from the trade union movement.

I do not believe that in our country there should be an irreconcilable conflict between labor and capital. Notwithstanding the fact that I have gone through quite a number of strikes, I have not yet abandoned my opinion that if the representatives of labor can be brought together, if they can sit down in honest conference, if they will look one another in the eye and tell one another the absolute truth, I believe when that is done that the day of conflict between labor and capital will end.

Some misery and all the suffering that labor has endured

I believe it to be the duty of every man and every woman who works for a living, who works for wages, lar fifty. Will the Star kindly ask its correspon- or a salary, to join a trade union, and I believe the dent to tell people, how, if the present price man or woman who works for wages and remains out charged by the Coal company is a good deal too of a trade union to be blind to their own interests. Not only that, but they are positively injuring the chances and the interests of their fellow men and fellow women. I believe that the trade unions stand for all that is good, for all that is best in citizenship. If I thought the trade union movement depended upon lawlessness for their success, I would abandon the the trade union movement. I do not believe that a strike was ever won because of violations of law. I do know that strikes have been lost because the laws were broken. .

In my judgement no great strike can ever succeed if the American people are opposed to it. I have an abiding faith in the people of our country. I believe the American people always try to be right. I believe that if they decide, if they conclude that a question is right, that a strike is right, that the strike will win ; and if they conclude the strike is wrong, then the strike will not succeed. It pays to consult the wishes of the best people. It pays to be right, and it pays not to be wrong.-Trades Union News.

An educated blind person is as a rule self-reliant, self-supporting, and an inspiration to those with whom he comes in contact. An uneducated blind person is a burden to himself and to his friends. Education is free to every blind boy and girl in the Maritime Provinces and Newfoundland but this fact is not always known to the parents of such children. Our publicnew movement. But I believe it does more than that, spirited citizens, boys and girls as well as grown-ups, new movement raises the stand-to help forward the work of the school for the blind ard of our citizenship, I believe it raises the manhood at Halifax can best do so by sending to the Superinand womanhood of all our people. And any move-tendent the names, ages and addresses of all blind perment that elevates society, that elevates the manhood sons under twenty-one years of age. Address to C. F.

THE PRICE OF STEEL AND DULL TRADE

The price of the products of steel and iron have been reduced from 5 to 10 per cent. There are those who think that this reduction will have the effect of causing a demand for structural steel, and increased activity in building, while there are others who think that the reduction is of high prices in steel as a cause of the present depression in the iron industry the Journal of Commerce says:

"There is no doubt at all that the holding up of iron and steel prices during the last six months has intensified the general industrial depression and hindered all efforts at recovery by keeping up the cost of construction, equipment, and operation in many lines, manufacturing as well as transportation. Orders have been held back for a fall in prices which did not come and without which nothing could be made by giving the orders. The relief afforded by the final relenting of the 'combine' is not enough to give much impetus to recovery, but it will ease the struggle somewhat. There is a gentle intimation that a reduction in wages may follow this grudging fall in prices, but, 'it is hoped' that there will not need to be 'a general or radical readjustment'. The purpose of this intimation is obvious enough, but if there had been no unreasonable restraint upon competition and the law of snpply and demand had not been hampered, both wages and prices would have come down months ago, to the benefit of labor and capital alike and the general revival of industry and trade."

STRIKES.

Many weeks ago, as often before, we pointed out that, while on a rising labor market strikes generally appeared to succeed, being in the line in which change was necessarily taking place, when the time of stringency came, and it became inevitable that rates of labor should fall, it was equally inevitable that the strikes should fail, and the strikers would find that they had been just playing into the hands of the employers who would have had to close down if they had not gone out. This is exactly what hes taken place. The strikes in the textile mills, that were so truculently promoted by persons who had nothing to lose by them, have failed of any other purpose than to throw many of the strikers hopelessly out of work. In a falling natural monopoly. It is not an industry, like mule- of Mining.

spinning, that can flee to another city or another country. It must be done on the spot. This makes bricklayers' unions more despotic than those of workers in competitive production. But the same law of supply and demand haunts them. Mr. Lauer, representing the contractors, has formally declared the trouble over, not that any agreement has been come there are others who think that the reduction is to, but simply that there are enough of men at work not sweeping enough to have any marked effect for the little work that is doing. These men are getton the present situation. Referring to the effect ing more pay than will leave a profit for the contractors at present prices, but in many cases less than the union demanded. The contractors simply could not pay more and get work. Those bricklayers who have gone out of work, counting on some foreign combination to keep their families alive while they did so, have been disappointed in this also, for the good reason that the causes that have led to shortness of work here have been still more acute elsewhere, and the demand for such aid came from everywhere at ouce. There is nothing arbitrary in this reduction of wages. It was simply inevitable; and those who exhorted the workers to fight against it led them in a forlorn hope -Montreal Witness.

REVOLUTION IN MARINE ENGINEERING.

The day will come-and it may not be so far off, either-when vessels will no longer require coal or boilers or steam, nor electric power to drive their machinery; in fact the probabilities are that the present complicated mechanisms will give way to simplicity. The power of the ocean will then be put into harness to drive torward the vessel through the watery element-water will, indirectly, contend against water. Smoke, stoke, holes, boilers, and funnels will disappear from the ship, and boiler explosions will be a thing of the past. Coaling stations may even become obsolete. The agency of motion will then be the force of the sea acting on the turbine which will drive one or more propellers. Here, again, the wind might be called in to assist the means of propulsion.

IS DYNAMITE WATERPROOF.

It is a mistaken idea to believe that dynamite is waterproof, and that any amount of soaking or stemming will not injure it. Many shot-firers will deliberately soak dynamite in hot water for half an hour, or market it does not pay to keep up production, and a thaw it with live steam, under the supposition that minimum of activity is most profitable for the mills, such treatment does not injure it. Dynamite soaked When any one class of workers, thinking itself indis. in hot water for fifteen minutes, and then allowed to pensible, undertakes to force the other workers out of steam for half an hour, has been found to have taken work that they may enforce on employers a rate of up over 10 per cent of water, enough to reduce the work that they have miscalculated their indispensableness it non-explosive. Dynamite left for a day in a thaw and their consequent power to dictate. The general house filled with escaping steam has been found to rule is that, up to the market price of their labor, em- have taken up 18 per cent. of moisture. It is not ployees can always dictate, and it is always right that known exactly how much water is required to render they should. When they insist on getting more than dynamite non-explosive, but 5 per cent. of water the market price they generally fail, simply because greatly reduces the explosive force of any dynamite the market will not stand it. The same thing has re- and cartridges which contain 12 per cent of moisture sulted from the bricklayers' strike. Bricklaying is a have been rendered non-explosive.—Science and Art

AROUND THE COLLIERIES

The Intercolonial Coal Co. loaned the Acadia Coal Co. their coal carrier Havsa for a trip with coal to the absorption of the P. W. A. by the foreign U. M. W. St. Lawrence.

The Twin City Coal Co., of Edmonton, Alta., have recently purchased an 80 Horse Powor Robb-Mumford Water Tube Boiler.

The output of the Emery is crawling up gradually The mine is now in good shape. It is asserted that this is the only real longwall mine in Canada, though there is longwall work of a kind in some other collieries.

A writer in a late Halifax Herald says that "the Mining Record' has told us that the grit government is opposed to an eight hour day". The Mining Record has said nothing of the kind or anything approaching it. The statement is an undiluted heraldism.

Who ever heard of any good coming from every one attempting to rule. No advance can come from a system of such false democracy. No true advance or good can come without free and complete executive control, and yet thats the way that not a few of the spouters in some unions would have it.

The Mines Regulation Act, consolidated at last session of the Local Legislature, will be ready for distribu-tion next week, The law enacts that every one being employed for the first time, shall have a copy and every other one who applies for it. As ignorance is no excuse at law, every colliery worker should secure a copy,

The Glace Bay Gazette is to be commended on the stand it is taking in reference to two seperate cases of drowning which occurred in Glace Bay lately. has been more than one mysterious disappearance from that locality of recent years, and little if any enquiry instituted. If there has been foul play in either of the two cases now exciting interest it is to be hoped that tne guilty parties will be found out and punished, that is if a jury with sufficient moral backbone can be found immediate distress of the men who are injured to convict a wrong doer. Was there nothing more than in the mines, and to give their families temporwind in the remark of the commercial man who said : ary financial assistance, many companies have "If ever I commit murder I hope I may be tried before established relief funds. a C. B. jury."

Herein is a marvellous thing. It is said that 'enquiries' have been made on the Mainland for slack for the Island, not for immediate shipment, but for delivery in the fall. It is not known that any contracts have been made, and it is hard to see how any can be entered into unless the purchaser is willing to pay a much higher price than he would be called upon to pay for supply coming from nearer home. Slack from the mainland could not well be delivered in Sydney at a less price at a less rate than \$2,75.

The result of the referendum in the matter of the leads to the possibility or, more properly, probability at the time of writing, that there will be two labor unions in connections with the collieries in N. S., that is unless those who voted for absorption give way, or the U. M. W. officials do not consider the vote decisive enough to warrant them in introducing their society in N S. The vote in Pictou Co., for instance, is so over-whelmingly in favor of the P. W. A. that it is not expected for a moment that the Pictou lodges will abandon the P. W. A. for a strange and alien society. Pictou and Inverness counties are to be congratulated on their loyalty. The norther part of Cape Breton Co. also did well. The vote published, which cannot be complete, gives a majority of 459 in favor of absorption, viz :-Glace Bay ... 867 for P. W. A. 1556 against Sydney Mines ... 439 ... 347 ... Inverness ... 342 ... 80 ... 14 66 54 44 44 785

The vote represents about half the membership.

In Pennsylvania, the condition of the miner with respect to the daily wage, hours of labor, sanitary surroundings, protection from accident, and pecuniary relief in case of disability, is a fortunate one when compared with conditions that exist in many other States and In this State we have at many colcountries. lieries in the Anthracite region what are known as First Aid to the Injured Corps, whose prompt and efficient service has in very many cases of emergency greatly lessened the suffering of the injured workers. There are also established at the various collieries emergency hospitals, the beneficent character of which is being gaily demonstrated. And to lighten the

The coal mines of the Miike coal-field in Japan are the largest in that country, producing on an average 4.000 tons of coal in a working day of 24 hours. The area being developed is about 300 acres, while the thickness of the two seams worked varies from 5 to 25 feet. The coal obtained is a coking bituminous, and is excellent for boiler use. The amount of coke pro duced per ton of coal is about 58 per cent. while the tar obtained averages about 10 per cent. and is of excellent quality. The coal is obtained by the room and than \$2,75 as the lowest rail rate is \$1,25 per ton. As cellent quality. The coal is obtained by the room and \$3,00 is the price for bunker coal it cannot be that the pillar system, and about 30 per cent. of the bed is ex-Island operators are getting anything like \$2.50 for tracted. The cutting is mostly done by hand, a miner averaging about 2 1-2 tons per day. The chief obslack. Whats in the wind anyway. By the way see- averaging about 2 1-2 tons per day. The chief obing the furnaces at Sydney Mines are shut down a sup- statele to be overcome in these mines is water; for every ply of slack might be had from the N. S. S. & Coal Co. ton of coal mined, 12 tons of water are pumped from the workings.

alle ROOFING



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 roofings 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 Amatite,

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 rooting 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 Anis nineral surface is embedded in a layer or pltch, the greatest known contexproofing malernal, Beneath this in turn are two layers of the best grade of wool felt—comented together by more Pitch, making the whole a roofing that is absolutely water-

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.

The Dominion Coal Co., of Glace Bay, C. B. have recently ordered a 16x16 inch Robb-Armstrong Automatic Engine for driving a mine ventilating fan at their No. 6 Colliery.

The Western Fuel Co. of Nanaimo, B. C, have recently purchased a 90 inch double inlet half housed Sirocco mine ventilating fan having a capacity of 200, 000 cubic feet of air per minute at 275 R. P. M. or 300,000 cubic feet of air per minute at 405 R. P. M. This fan will be built by the Robb Engineering Company of Amherst, N. S., who have made arrangements with the Sirocco Engineering Company of New York to manufacture their fans in Canada

INTERCOLONIAL RAILWAY.

DOMINION DAY JULY 1, 1908.

Return Tickets will be sold at FIRST CLASS ONE WAY FARE Good going June 30th. and July 1, Good for Return until July 2nd '08

Good going June 20th, and July 1, Good for Return until July 2nd '08
To all stations on the Railway and to Detroit, Port Huron and
Sault Ste Marie, Mich, and points in Canada East thereof on the G.
T. R. and C.P. R., also to points on the Dominion Atlantic Ry.,
Cape Breton Ry., Camberland Ry. and Coal Co. Halifax and South
Western Ry, Inverness Ry, and Coal Co., Quebec Central Ry, Sydney
and Louisburg Ry., Temisconata Ry., and Drince Edward Island Ry.
Note—In cases where Excussion Tickets issued to Intercolonial
Ry, points on June 20th. would not enable passengers to reach destination prior to noon, July 1st., tickets may be issued on June 29th.



Plumbago for all

Purposes.

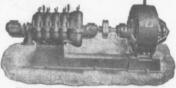
The

Dominion Foundry Supply Company.

Limited.

Montreal and Toronto.

Westinghouse **Motors for Mines**



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

Office and Works, Hamilton, Ont.

Traders Bank Bldg., Toronto,

Sovereign Bank Bldg., Montreal. 159 Granville St. Halifax, 922-023 Union Bank Bldg., Winnipeg.

Priestleys Mohairs

Lustres

Have Excellent Wearing Qualities.

WILL NOT COCKLE = = WITH RAIN : =

Best for

SPRING AND SUMMER SHIRT WAIST SUITS.

Ladies who wish to look well Priestlys Dress Goods. Greenshields Limited, Sole Agents. Montreal, Canada wear Priestlys Dress



Herzler & Henninger Mach. Works

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 Manitela or the North was Provinces, accepting a and 30, not reserved, may be insustanted by a west Provinces, accepting a and 30, not reserved, may be insustanted by a contract of the province of the province of the province of the section of one-quarter of the section of the province of the section of the sectio

by the father, mother, see, daughter, brother or sister of an intending home steader, stander, stander

ceedings, the applicant for cancellation will be entitled to prior right or entry. Applicant for cancellation must state in what particulars the homestead is in default.

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

A homesteader whose entry is not the subject of cancellation proceedings may subject to the approad of bepartment, relinouslish in the off stake, and the subject to the approad of peratment relinouslish in the name of state of the control of the control of the control of the following plans:

The homesteader is required to perform thehomestead duties under one of the following plans:

(3) A homesteader may, if he was the control of the land in case, year duty it months and owned color by him, not lead to the control of the land in the property of the control of the land in the land

(5) A homestacider intending to pasform his resident duties in accordance with the above while living with prevaits or on farming land owned by him. Six nonths notice in writing must be of such intention. Six nonths notice in writing must be for such intention. Six nonths notice in writing must be for such intention. In lands at Ottawa, of intention to apply for Patent must give six months notice in writing application for pasent the settler must give six months notice in writing application for pasent the settler must give six months intention to do so, given the demands of the de

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

Coal. Coal lands may be purchased at \$10 per acre for soft coal Tand \$20 for anthracite. Not more that me seem acquired by one individual of company. Recally at the rate of ten cents use an equired by one individual company in the control of the

heens, parents provides for the payment of a royalty of 2 10 per two to the The placer mining claims generally are 100 feet square; entry fee \$0 renewable yearly.

All resember may obtain two leases to drodge for gold of free miles e charge free miner may obtain two leases to drodge for gold of five miles e charge free miner may obtain two leases to drodge for gold of five miles e charge free miner may obtain two leases to drodge for gold of the linestor of the class for occasion with the charge free miles e charge free may be considered in the company of the lease for each five miles. Remail 2 flop parameter for each mile of river feature. Royalty at the rate of 2 1-2 per cent collected on the output after it exceeds \$10.00.

W. W. COUY.

Theoret of the Minister of the Interior.

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 ENQUEAS AS TO PRICE AND QUALITY.

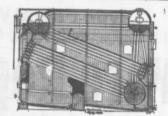
Works -- SYLVESTER

Head mos-STELLARTON.

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

ROBB-MUMFORD

WATER TUBE BOILERS



FREE EXPANSION OF TUBES. PERFECT WATER CIRCULATION.

DRY OR SUPERHEATED STEAM HALF THE USUAL NUMBER OF HANDHOLES.

ROBB ENGINEERING COMPANY, L't'd. AMHERST, N. S.

CURTIS'S & HARVEY, LTD.

Manufacturers of all Descriptions of

...EXPLOSIVES...

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.

CURTIS'S & HARVEY, LTD. 3 Gracechurch St. London, E.C.

Supplies of all Explosives to be obtained from

Agents for Nova Scotia——AUSTEN BROS., Halifax.

Contractors to Admiralty and War Office, also Colonial Governments.

ALLAN, WHYTE & C'O'Y.

Clyde Patent Wire Rope Works,

Cablegrams:
"Ropery Rutherglen," Rutherglen, Glasgow, Scotland. Codes, A. B., C. (4th. 4. Mt. Eds)
"A. L. Lieberg and Private.

Wire Ropes

for 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 1,750.000 tons in that time and is still good for further considerable service.

Agents in Nova Scotia:—Wm. Stairs, Son & Morrow, Ltd., Halifax. Agents in New Brunswick:—W. H. Thorne & Co., Ltd., Saint John.

-Different Sizes and Qualities kept in Stock-

GREENING

All Kinds and Sizes and for all purposes. Standard and Lang's Patent

Rope Fittings.

Prices Right. Lay. Prompt Shipments. Rope Grease.

THE B. GREENING WIRE COMPANY, LIMITED.
HAMILTON, ONT.
MONTREAL, QUE.

CANADA FOR THE CANADIANS!

WIRE "DOMINION" For Everybody.

For Everybody. ROPE

The DOMINION

WIRE ROPE CO., Ltd., Montreal

INVERNESS IMPERIAL COAL

Inverness RAILWAY and COAL COY.
Inverness, Cape Breton.

Miners and Shippers of INNERNASS (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 FEB. 2ND. 1908.

Read Down				WESTBOUND			
		STATIONS.	-	Read Up			
No. 52 a. m L 11 00	No. 54 p m				No 58 p m		
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Trains make close connections at Pt. Tupper Jct. with I. C. R. passenger trains, excepting the Maritime Express.

MABOU & GULF COAL COMPANY, L'T'D. MABOU DIAMOND COAL

Burns and Works like Bituminous:

Looks and Lasts Like Anthracite; it has no equal.

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MABOU. CAPE BRETON.

North Atlantic Collieries.

Mines and Loading Piers, Port Morien, C.B.

Miners and Cow Bay Basin Coals.

EXCELLENT FUEL FOR

Domestic, Steamship and 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,"

Loading Piers at Port Morien C. B.

Head Office, Halifax, N. S

Mines Office, Port Morien, C. B.

Babcock & Wilcox, Limited.

PATENT WATER TUBE BOILERS.

Over 6,500,000 H. P. in use, Fired with all kinds of Fuel

Steam Superheaters, Feed Water Heaters, Mechanical Stokers, Coal Conveyors, Steel Chimneys, Structural Steel Work, Electric Cranes, Piping.

Our Text Book "Steam" Free to users.

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LIMITED.

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 can be depended upon. This flour can

only be had in Cape Breton at the stores

of the Dominion Coal Company.

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

CANADIAN RAND CO., LIMITED

MONTREAL. HALIFAX. TORONTO. WINNIPEG, ROSSLAND. VANCOUVER



G.C.ROBB CHIEFENGINEER HEAD OFFICE TORONTO

WHEN WERE YOUR BOILERS

1....LAST INSPECTED 1....

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G. W JONES, Agent.

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-OR TO-

A. BONNYAN, Inspector

Ma Amherst N. S

RUBBER HOSE for Air Drills. Pneumatic Tools, Steam, Suction, etc.

"REDSTONE SHEET PACKING,

For highest pressures with Steam, Hot or Cold Water and Air. The most durable and satisfactory Packing on the Market.

RUBBER BELTING For Transmitting Conveying and Elevating.

Unequalled for Durability and Power Transmitting Qualities.

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The Gutta Percha & Rubber Mfg. Co. of Toronto, Ltd.

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CELEBRATED

Unexcelled for Steam, Domestic and General Purposes.

DELIVERED BY RAIL OR WATER.

SHIPPING PORT: PICTOU LANDING.

Quotations Furnished Promptly on Application .-

Miners and Shippers of

High Grade Steam

JOGGINS

Domestic

Unexcelled for General Use.

Shipment by Intercolonial Railway and Bay of Fundy

Power Plant, CHIGNECTO, N. S. Colleries., CHIGNEC10 and JOCGINS

DAVID MITCHELL, General Manager, MACCAN, N. S.

New Glasgow, Nova Scotia.

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

CORRESPONDENCE SOLICITED

DRUMMO

COAL

High Grade Fuel for Steam, Domestic and General Purposes.

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.

RECL

of Fine Quality

FIREB

Better than Scotch seconds for Ladle lining etc.

SHIPMENTS BY RAIL OR WATER.

INTERCOLONIAL COAL MINING CO., LTD., Westville Nova Scotia.

eddarcendeeddaadaa addabbadabbadabbadaada addabbadabbadabbada STEEL Foundry Co.,





CAST STEEL BRONZE BUSHED. SELF OILING

PERFECT GYRATORY STONE CRUSHER.

CRUSHING ROLLS. ELEVATORS. and Gold Mining Requisites



HADFIELD'S PATENT

(Solid Steel Construction.)

The Parts which are subject to Excessive Wear are made of

Hadfield's Patent 'Era' Manganese Steel.

Sole Representatives of the Hadfield Steel Foundry Company, United Sheffield, for Canada,

PEACOCK BROTHERS, Canada Life Building, MON

Join Our Union,



Dart Unions

The most practical appliances for connecting Pipes.

Non-corrosive seats of bronze ground and fitted, perfectly tight. Requires no packing

The Strongest Union in existence.

Pipe, Valves, Fittings.



Emerson Pumps for Mines.

PULSOMETER TYPE.

Great Capacity,
Require little space,
Handle Gritty Water,
Always Ready,
Easily Handled.

The most Efficient and convenient Power Pumps on the Market.

Ganadian Fairbanks Co., Ltd.

MONTREAL. TORONTO. ST. JOHN. WINNIPEG. CALGARY. VANCOUVER.

CHAINS. CHAINS.

(All Sizes in Stock.)

"EDGES" BEST SPECIAL CRANE CHAINS.

Cannot be Excelled for H!GH CLASS QUALITY and WORKMANSHIP

They are made of the very best brands of English Bar Iron and by Selected Workmen.

Makers of every description of Chains for Mining and all Engineering Purposes,

Coupling Chains and Solid Forged Draw Bars

-----For Mine Cars, A SPECIALTY

This 14" 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.





Draw Bar for Coal Car.

Edge & Sons, Limited,

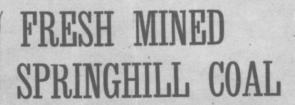
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"Codes" A. B. C. and Bedford McNeills"

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RAILWAY AND

OPERATING THREE THICK SEAMS NOS 1, 2 AND 3.

-Miners and Shippers of the Well Known-



ANALYSIS	7		
Moisture. 2.02 Volatile combustible matter 18.94 Fixed Carbon. 75.29 Ash. 3.75	% 1.41 % % 27.93 % % 67.47 %	2.71 % 28.41 % 64.69 % 4.19 %	
100.00 Sulphur1.18		100.00	

BEST COAL FOR LOCOMOTIVE USE,

BEST COAL FOR

Delivered By Rail or Water

BEST COAL FOR

IN Lots To Suit Purchasers.

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N. S.

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MONTREAL

Mined in the Province.

Dominion Coal Company, Ltd.

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.

ANALYSES.

ANALYSES OF GAS AND STEAM COAL MADE BY J. & H. S. PATTINSON, CHEMISTS,
—NEWCASTLE, ENGLAND.—

CARBON		STEAM COAL	(GAS COAL
			ent. 77	51 per. cent
			5 2	12 (1
			1 12	7 11 11
SULPHUR ASH		0 56 " "	3 0	7 44 44
WATER	*********	2 30 " "	4 10	
		3 35 " "	2 1	I " "
	10	0 00	100 00	1

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 sailing vessels. Small vessels loaded with quickest despatch.

:: BUNKER COAL::

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.

DOMINION COAL COMPANY, LIMITED, 112 St. DOMINION COAL COMPANY, LIMITED, 171 L. DOMINION COAL COMPANY, LIMITED, Quet—and from the following agents.

112 St. James St., Montreal, Que. 171 Lower Water St., Halifax, N. S. Quebec, Que* agents.—

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Peake Bros. & Co. Charlottetown, P.E.I. A. Johnston, and Co., Stockholm, Sweden,

G. H. DUGGAN,

2nd. Vice President