

Cumberland.

* Pictou.

* Cape Breton. *

Inverness

New Series Vol. 9 No. 2

JULY 25th., 1906

STELLARTON, N. S

Iron & Steel Co'y,

LIMITED

SYDNEY, NOVA SCOTIA.

FOUNDRY PIG IRON

Brands:

"Dominion."

"D. I. S. C."

Basic STEEL Hearth

Blooms, Billets Slabs.

Rails Weighing 561bs, per lineal yd, and heavier

WIRE RODS

A. B. C. & A. 1 Codes used.

Telegraphic Address, Latch, Haymills.

LATCH & BATCHELUK, Ltd.

WEBSTER & HORSFALL.

(ESTABLISHED 1730)

Works: HAYMILLS, BIRMINGHAM, ENGLAND.

H. M. WYLDE,

P O Box, 529

HALIFAX N. S.

Patentees and Manufacturers of

Locked Coil and Flattened Strand WIRE ROPES

Mines, Tramways, Aerial Ropeways, Suspension Bridges, Cranes, Elevators, Transmission of Power, Steam Ploughing and General **Engineering Purposes.**



Locked Coil Winding Cable.





Locked Coil Aerial Cable or Colliery Guide,









Lang's Lay or Ordinary, Patent Flattened Strand Winding or Hauling, Patent FlattenedStran I, (non spinning)

AWFRS OF all Sections of HIGH @LASSISTEF = WIRE

for Ropes, Springs, Pianos, Needles, Fish-Hooks Binding Armatures and all other Purposes.

ACADIA POWDER CO., LIO **MANUFACTURERS OF**

DYNAMI

Blasting and Sporting Powder, Pellet and Grained Powder for Coal Mining.

FLAMELESS EXPLOSIVES for GASEOUS MINES. DYNAMITE, for SUBMARINE BLASTING, SUBMARINE FUSES.

Electric Blasting Apparatus, Electric Batteries, Electric Fuses, Insulated Wires, Safety Fuse Detonators, Etc.

-76 and 78-

OFFICE: -76 and 78-Telephone 251. P. O. Box, 520 GRANVILLE ST., HALIFAX, N. S.



This machine shears or undercuts with equal facility.

For Mining in Thin or Inclined Seams it has no Superior.

Has sheared 12 rooms 8ft. x 5ft. in 8 hours and 25 minutes, including all time lost in moving. Total square feet cut 496. This was done at Dominion No. 1 Pit.

More than 50 Machines in C. Breton,

The Hardy Patent Pick Co., Ltd. SHEFFIELD, ENGLAND.

Miners Wanted

TO CHEW

PAY ROLL

Plug Tobacco

WANTED.

At the several collieries of the Dominion coal co. Limited, skilled coal miners and mine laborers.

Applyon the works Or by letter

Dominion Coal Company, Ltd

THE GARLOCK



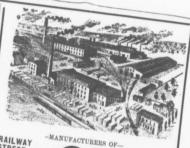
GARLOCK'S STEAM, WATER and AMMON: A ASBESTOS SECTIONAL COVERINCS.

Hamilton,

Used by Collieries in Lancashire, Staffordshire & Yorkshire

COLLIERY LAMP OIL For Marsaut, Muesele Deflector or Closed amp PURE WHITE FLAME

E WOLASTON, Dutton St MANCHESTER Sole Representatives for Canada, Austen Bros.,



RAILWAY STREET and MINING

CAR WHEELS FORGINGS & CASTINGS

Church Pews, Fittings for Stores, Schools, &c A SPEIALTY.

arge St als of Foreign and Dorzestic Lumber on Sale.

Rhodes,

BUILDING MATERIALS Curry & co., Ltd.

HALIFAX, N. S.

AMHERST, N. S

On and after Sunday, June 24th 1906 trains run daily, Sunday excepted,) as follows:—

-TRANS excepted,) as follows	
144 Mixed to LEAVE OFF	
No 70 Min for Honewall - STELLABTO	
atixed for The sell-	
18 Mixed & Arenton	
18 P. Tor Honorest '''	
18 Express for Molewell 5 55	
21 Mixed for Districtant, and St. 1	
100 M. of Picton I and St. John	
62 Mixed for Dictou Landing John 6.55	
No 144 Mixed for Hopewell STELLARTON	
1.5 Express for Halfax, and St. John 6.50 92 Mixed for Pictou Landing 7.40 15 Mixed for Pictou 1.40 16 Mixed for Mulgrave 7.40 19 Express for S.	
21 Mixed for Pictor Landing 6.55 6.56 6.57 6.58 6.58 6.59 6.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50	
56 Mixed for Pictou 8.15	
a sixed for Figure 1	
85 Express for Truro 10.55	
11.00	
140 Mixed for Di Halifax and Marie 13.35	
101 Mixed for Pictou Montreal 15.50	
of served for plot	
22 Mixed for Pictou Landing 16.05	
11.5.00 11.5	
86 Express Holle Glasgow 16.50	
60 P. Press for New Cit. John	
66 Express for New Glasgow John 19,40	
oo sixed for New Ghaspow 16.50 So Express for New Ghaspow 18.10 17 Express for New Ghaspow 19.45 66 Express for New Ghaspow 19.45 17 Express for Picton 19.45 18.10 19.47 19.4	
TRAIN.	
66 Express for New Glasgow 19.45 — TRAINS ARRIVE AT STR. 21.15	
19 Mixed form II ANNIVE AT DEEL 21 16	

TRAINS ARRIVE AT ST	19.
-TPA:	200
70 III THAINS APPILLE	21.
Mixed form II THIVE AT DET	21.1
78 Mix ad to Il Dopewell STELLABTON	
TRAINS ARRIVE AT STELLARTON	
79 Mixed form Popewell 78 Mixed from Trenton 61 Express from Potou 18 Express from New Glasson 18 Express from New Glasson	
18 Express from Fictor.	6.3
	55.55
	7.80
21 Mixed from Hopewell Samuel from Mew Glasgow Samuel from Trupowell Samuel from Trupowell	1.00
25 Apress from New Glasgow 21 Mixed from Hopewell 56 Mixed from Trupo 28 Mixed from Prupo 27 Mixed from Prupo 66 Mixed from Prupo 66 Mixed from Prupo 67 Mixed from Picton 56 Mix	7.35
27 Mixed from New Glassess	7.35
se Mr. Trom Pioton Sow.	8.00
of Mixed from Motor -	0.00
oo aixed from Trupo SS Mixed from New Glasgow 37 Mixed from Picton 66 Mixed from Mulgrave	10,35
139 Mixed to From Halifay and co	10.40
85 P. and from Pictor and St John	13.15
S Express from	10.10
20 Express from Halifax St v.	10.45
22 Mixed trom Sydney . John, Quaber	5.35
77 Min Floring Pictors V	5.40
92 Mixed from Pictou Landing 1 77 Mixed from Hopewell 1 65 Express from Hopewell	0.90
1 1 1 1 1 1 1 1 1 1	5.50
95 Events from Pictors 11	8.10
Se Paress from Sydney 15	8.45
10	V-90
	,30
rain and st John and rain 19	.35

os Express from New Glasgow

17 Express from St John and Halifax

— Alltraina are run by Atlantic Standard time Twenty

Glock is mid-night. Moncton, N. B, June 20th. 1996

**** Wilkes-Barre Pennsylvania.

Hoisting Engines in all Sizes from 12 inch. x 16 inch. Cylinders, to 42 inch. x 72 inch. Cylinders.

Haulage Engines, all sizes, Endless Rope and Tail Rope System.

REFERENCE, BY PERMISSION, CUMBERLAND RAILWAY AND COAL COMPANY.

HICH CRADE WIRE ROPES FOR

Hoisting, Haulage, and Colliery Purposes. Manufactured Dominion Wire Rope Co., Ltd., MONTREAL.

AUSTEN BROS .-: -- HALIFAX AGENTS.

Phillips Mine & Mill Supply Co.

PITTSBURGH, PA.

Works, South 23d, 24th, Jane and Mary Streets. Office, 2227 Jane Street.

Screens, Screen Bars, Screening Plants Complete, Car Dumps, Cars, Car Wheels, Larry Wagons, Hitchings, Etc.

LET US SUBMIT PLANS AND ESTIMATES.

Coke Works Equipment. Coal

Head=quarters in Nova Scotia for

'White's' London Portland Cement. 'Gartcraig' Scotch Fire Brick, Allan-Whyte and Company's Wire Ropes. 'Firths' and 'Black Diamond' cast Steel. 'Bennett's' Safety Fuse and Detonators.

STEAM PIPE AND FITTINGS

General Hardware. Metals Plumbing and Mining Supplies.

************************************* NOVA SCOTIA STEEL & COAL COMPANY, LIMITED,

MANUFACTURERS OF



STEEL



MERCHANT BARS,

SHEETS AND PLATES -- From 12 gauge up to 1 inch thick. Any Widths HEAVY FORGINGS,

HAMMERED SHAFTS

. . NOTHING REQUIRED IN CANADA TOLO ARGE FOR US. . . .

Steam and Electric Car Axles

Fish Plates and other Railway Materials.

Tee Rails - 12, 18, and 28 lbs per yard

Scotia Pig Iron for Foundry Use.

Also MINERS and SHIPPERS of

The Famous Old Mines "SYDNEY" Collieries:

SYDNEY MINES

SHIPPING PORT NORTH SYDNEY.

An Unsurpassed Evaporating Coal.

Highest in Carbon, Lowest in Ash,

Unrivalled Facilities for Bunkering at North Sydney.

Che Best House Coal.

Che Best Steam Coal.

OUICK DISPATCH LOADING-:-BEST RESULTS STEAMING. Two points that always appeal to Shipowners.

SAILING VESSELS LOADED PROMPTLY.-

For Prices and other Particulars, apply to.

Head Office, New Glasgow, N.S.

SMITH'S PURE FRUIT JAMS.

Strawberry, 12 oz. and 1 lb., Raspberry, 12 oz. and 1 lb. Gooseberry, 12 oz. and 1 lb. Peach, 12 oz. and 1 lb. Red Currant, 12 oz. and 1 lb. Black Currant, 12 oz. and 1 lb.

SMITH'S PURE JELLIES,

Red Currant,

Quince, Crab Apple.

A. & W. Smith & Co.,

Halifax, N. S.



Double Strength Culvert Pipe a . Specialty.

Canadian Sewer Pipe Co'v.

HAMILTON, and TORONTO, -ST. JOHN, QUE.-

Mining & Mill Supplies.

Valves. Fittings, Packing,

Steam Goods -of every-Description.



Boiler Tubes, Steel Plates, Angles, Tees, etc. SOLID DIE RIVETS

Iron Pipe for

Mining Purposes.

-Catalogues and Prices on Application.-

LIMITED,

MONTREAL, QUE.

-Established 1852-

Progressive



Westinghouse MOTORS

are known for their reliability, efficiency, economy and ease at Operation

Canadian Westinghouse Co. Ltd. General Offices: Hamilton, Ontario.

ADDRESS NEAREST OFFICE FOR PARTICULARS.

Toronto—King and Yonge Streets. Montreal—Soverign Bank of Canada Bldg. Halifax—134 Granville St. Winnipeg—922-923 Union Bank Bldg. Vancouver—152 Hosting St.





NOVA SCOTIA. Mines of Gold, Silver, Coal,

Iron, Copper, Lead, Etc.

· 神神の神 南神 中子 中子 大神 中子 小学 Titles direct from the Crown

At Moderate Royalties.

東京 南京 南京 京京 京京 京京 日本 京京 日本

GOLD AND SILVER.

Licenses are issued for prospecting for Licenses are issued for prospecting for Gold and Silver for a term of twelve months. They Comprise areas 150 by 250 feet, and any number can be obtained, at a cost of 50 any number can be obtained, at a cost of second per area. Leases of any number of areas can be obtained, at a cost of \$2.00 per area. areas can be obtained, at a cost of \$2,50 per area, for a term of 40 years; subject to an annual rental of 50 cents per area.

Licenses are issued to quartz mills, which make returns and pay royalty on the gold make returns and pay royany, on the good at the rate of two per cent, on milled Gold,

Minerals other than Gold and Silver. -LICENSES TO SEARCH-

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

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

on con is no cents per tong con minerals in proportion

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

FOR INFORMATION APPLY TO

HON. W. T. PIPES,

Cen missiener of Iullic Works and Mines, HALIFAX, N. S.

MINUDIE COAL COMPANY, L't'd.

Operating MINUDIE MINES

in the Celebrated

Producers of SCREENED COAE, ROUND, RUN-MINE, SLACK.

The best for Foundry or Furnace, Locomotive or

Stationary Engines, for Domestic or General use

CLEAN AND CLINKERLESS.

Direct connection with the I. C. R.

Colliery RIVER HEBERT, N. S.

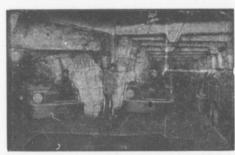
Mine Manager:—HY. McCarther. Business Manager R. S. Hibbard, River Hebert, N. S.

Mine Manager:—HY. McCARTHER. Business Manager R. S. Hibbarto, Red Control of G. A. FORBES, See'v Treas. Head Office 66 Guardian Building, Montreal.

CUTTERS OF EMPTY PRINTERS

JEFFREY LOCOMOTIVES HAUL THE WORLD'S COAL.

Bulletins on Electric Locomotives No. 10. Mining Machines No. 11. Mailed Free.



Branches:

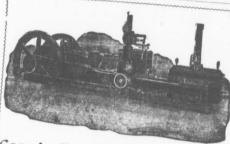
NEW YORK,
CHICAGO,
PITTSBURG,
DENVER,
KNOXVILLE, TENN.
CHARLESTON, WVa.

Jeffrey 6 ton, single-end control, ELECTRIC GATHI RING LOC MOTIVES at work in the Mines of the National Mining company.

The JEFFREY MANUFACTURING COMPANY, COLUMBUS, OHIO, U. S. A.

POWER

ELEVATING



Canada Air Compressors.

Self Oontained

Self Oiling

Steam, Belt or Power Drive. Straight Line or Duplex.

-For all Duties.-ANY PRESSURE ANY CAPACITY.

Canada Foundry Company, Limited. District Offices:- Montreal Halifax Ottawa, Winnipeg, Calgary, Vancouver, Victoria, Rossland.

Head Office:- Toronto Ont.

a real core

Complete from one end of the drill hole to the other, includ-Complete from one end of the orn none to the other, meaning a section of the coal seam intact, is the only record on which you can base accurate estimates in exploring and developing coal property.

Sullivan Coal Prospecting Outfits, comprising Sullivan Diamond Drills with improved means for preserving the Coal Core, are the only method in use by which these valuable records can be secured.

Prospecting by Contract a Specialty.

We have done over 60,000 feet of successful coal prospecting in the past two years.

Send for our estimates on your work, and booklet, "Modern Prospecting."

Sullivan Machinery Co.,

RAILWAY EXCHANGE, CHICAGO, ILL., I. MATHENON & CO., Ltd., Agta., NEV



Prospecting for coal with Sullivan hand power Diamond Drill, Philippine Islands.

A. &. W. MacKINLAY

LIMITED.

Rule and Print Special Blank Form. for Mining and other Industrial -Corporations,-

> BLANK BOOKS ruled to any pattern and Bound in any Style of BINDING-

135 to 139 GRANVILLE STREET.

HALIFAX. N. S.

That the use of electricity both increases the output of a mine and reduces the cost of production, is demonstrated by actual results.

The well known Canadian Westinghouse Company, makers of the famous Westinghouse electrical apparatus cite two instances in their booklet (Electricity in Mines) of the great savings inaugurated by the employment of

In one, electric haulage has enabled a coal mine to double its output and at the same time to reduce the cost of haulage from eight cents to one cent per ton. The total yearly saving in this one item amounts to nearly 30 per cent, of the sum invested in the electric plant. In another, the substitution of Westinghouse motor driven pumps for steam—at a total cost of \$18,-000, including Westinghouse Generators, Motors, Gears, etc.,—resulted in an annual saving of nearly \$6,000 allowing for interest on the investment and depreciation of plant.



Stellarton, N. S., JULY 25th. 1906 **New Series** Vol. 8, No. 2.

THE TEMPERATURE OF A COAL GAS EXPLOSION.

The following appears in the Birmingham Post:-Our knowledge of what goes on inside the cylinder of a gas engine immediately after the explosion is becoming more ard more advanced. At first it was enough that the heat caused by igniting a mixture of coal gas and air could be converted into useful work. Then investiair could be converted into useful work. gators turned their attention to the effect of compressing sion took place. The next step was to measure the temperatures during the stroke of the gas engine cylinder. In all this work Professor Bnrstall played a pioneer part, and he is at present going more fully into various details which have arisen out of his experiments on the new engine in the University power-station at Bournbrook. Other scientists have carried out research work have been considered as important as those of the Bir-mingham professor. At Cambridge an attempt has been made to investigate by means of platinum resistance thermometers the explosions of homogeneous mixtures of coal-gas and air at atmospheric pressure and The mixture was placed in a cylindrical platinum wire used for the thermometer was exactly one-thousandth part of an inch in diameter. When the electrical resistance, and this could be easily measured, for the battery was placed in series with a battery of the spark it is found that on ignition of the mixture degrees Centigrade. It should be remembered that waair it was found that two and a half seconds elapsed be- gerned. fore all the gas was burnt. With a mixture of one volume of gas and nine volumes of air the flame spread rapidly from the . park, and all of the gas was completely burnt within one fortieth of a second. The results are used to explain the question of "after-burning" in the gas engine, and it is argued that the observed specific heat of the products of combustion, together with the loss of heat during the passage of the flame through the loss of heat during the passage of the compression space, accounts for all of the peculiar-that about one thousand will be ities of the gas engine diagram! Progress in the design fifteen months. The amount of internal combustion engines will probably result from a little over two million gollats.

there scientific investigations, and it is to be noticed with great pleasure that the Institution of Mechanical Engineers are determined to continue their researches on such problems,

POLICE-RIDDEN GERMANY.

In an article in the Western Mail dealing with the the gas to some considerable pressure before the explo- Miners International Congress, Mr. William Brace M.P. says:-Quite a number of people were amused at the action taken by Mr. Stanton in calling the attention of the congress to the probability of there being an Austrian spy watching the proceedings of the delegates in the next room; but, however funny it may appear to prosaic Britishers with their full enjoyment of freedom to conduct their business and gatherings without fear or upon the gas-engine, but the results do not seem to favour, it may mean anything but a joke to the representatives of Germany, and Austria especially. so many years since Mr. Schroeder had to undergo a lengthy period of imprisonment for daring to attend an international miners' congress as a delegate, and even now when we take the congress to those countries the business has to be conducted more or less under the vessel and fired by an electric spark at the centre. The guidance of the police. About three years ago the congress was held at Dusseldorf, and during the whole of the sitting an inspector of police, with an official shortflame approached the wire there was a sharp rise in its hand writer in police uniform, was in attendance, sitting on the platform by the side of the officials. It is true to say we were not interfered with, but had anything been constant potential. If a thermometer be place t near done or said contrary to what the police inspector thought was right, he would have had the proceedings stopped, there is a sudden rise of temperature to twelve hundred and doubtless, any delegat: who had trespassed would degrees Centigrade. It should be remembered that was have been penalised. With such restrictions ever preter will boil at one hundred degrees Centigrade, and sent with them, one was not surprised when a German therefore an idea of the enormous temperature at ex- delegate stated that one of the most striking sights he plosion may be gained. It has been found that if the had seen in London was the liberty enjoyed by the peogas is fired in a closed vessel, whose volume does not ple to meet in Hyde Park, and to be addressed by speakalter, there are differences of temperature as much as ers without the slightest interference by anyone, and five hundred degrees centigrade in various parts of the that he should go back home and commence an agitavessel at maximum pressure after an explosion of this tion for the same freedom in his own country. Truly, kind. With weaker mixtures of gas and air it was with all our shortcomings, we are a common sense peu-found that the spread of the flame was much slower. ple, possessing in a very full degree the instinct of jus-With one volume of gas mixed with twelve volumes of tice and fairplay, at least so far as free speech is con-

> One of the biggest deals in connection with contracts given out by the Grand Trunk Pacific is that just consummated with Rhodes Curry & Co. of Amherst, N. S. The contract is for two thousand five hundred cars, which are to be delivered in lots of five hundred each, but the contract time for the delivery of the entire lot will extend over five years. It is expected, however, that about one thousand will be required within the next fifteen months. The amount of this contract in cash is

EXPLOSIONS IN COAL MINES.

Mr. B. H. Thwaite was the author of an important paper brought before the Institution of Mining Engineers at Manchester, at which the question was discussed; "Can explosions in coal mines, with their associated toxic fatalities, be prevented?" Mr. Thwaite thought toxic latanties, be prevented. Mr. thwaite thought the question might be answered by a direct negative. However perfect the precautions were in theory, the prevention of explosions in the workings of the marsh gas exuding from carbonaceous strata would never be possible in the absolute. He saw one gleam of light, however, to the depressing gloom. It would be possible in the future to prevent the death of, say, eight out of ten men who died through the toxic influence of carbon mon-oxide that was produced by the partial oxidation of coal dust ignited by the explosive combustion of the marsh gas The coal dust extension of the marsh gas flame was the principal source of that gaseous elegas mame was the principal source of that gaseous eleing in from all parts of the Dominion, and ne renerates
ment which Dr. Haldane had put as the prime cause of the hope previously expressed, that the people of the To so oper cent of the deaths resulting from all ordinary coal mine explosion. This element was carbon monoxide, the highly toxic character of which was now becoming generally recognized. It was pretty certain that this was not produced by the combustion of marsh gas. The latter was the igniting agent of the toxic gas produced—coal dust—and therefore, neglecting the small proportion produced by the smouldering timber, if this coal dust was removed from the workings as produced, the toxic dangers to life associated with marsh gas explosions in coal mines, which they knew to be responsibe for from 75 to 90 per cent, of the fatalities, would be eliminated. Details were given as to the low death rate among coal miners from phthisis, owing to the antiseptic effect of the inhalation of finely divided coal or carbonaceous dust. Direct experience will alone absolutely determine how far it is possible to remove the coal dust without detriment to the healthfulness of coal miners, and the author suggests that the Government might initiate such an investigation. But assuming that the coal dust environment of the coal miner were permitted to remain as it is, will it be possible to prevent or reduce the deaths from toxic effects? firmative answer may at once he given, and for the following reason. It is generally known that oxygen is the best antidote for the toxic influence of carbon monoxide. Of course, pure air expels carbon monoxide from the haemoglobin of blood, but pure oxygen will do the work five times more rapidly. Now a supply of oxygen could be established along the line of working operations in a coal mine, and in such a way that it would automatically escape whenever an explosion of marsh, gas occurred; through nozzles at different points along which the flame was propagated, setting up at the same time was propagated, seeing up as whistling or audiable sounds, so that even in the darkness that always succeeds an explosion the victims would readily be able to find their way by creeping or walking to the nozzles of escaping oxygen, the flow of which would continue as long as was required to permit the rescue party to find the victims and remove them, a duty that would be easily performed, because the location of the danger zone would be sharply defined by the whistling noise of the escaping oxygen. Such a method constituted the basis of a recent invention,—

The Malay Peninsula is the great tin produc-

Preparations on a grand scale are being made by the Commission for the Dominion Exhibition which will open its gates in Halifax to the public on September 22 and keep them open for two weeks

The new Administration Building for the Grand Entrance will be erected on the same plans as though the recent proceedings in Court regarding expropriation had not taken place, but the building will be located on a site d fferent from that proposed. The public will be in no wise inconvenienced by the change. casion ever arise, under which another site for this building should be determined upon, the edifice will be easily moved, and construction of the foundations will be such that this can be done without difficulty. The new building will be erected close to the other new buildings added during last year to the splendid equipment on the

ment which Dr. Handane had put as the prime cause of the nope previously expressed, that the people of the following form an ordin-Maritime Province will avail themselves of every opportunity at their disposal to make a good showing for this part of Canada. We can do it if we try in almost every branch of agriculture or other industry. The Exhibition will be worthy of all that can be done to make it still more useful and attractive.

> In mining education two standards are required. good deal of the work of the mining engineer is what was once described to Mr. Gregory as "bushwhacking" The miner has himself to unde take so many different functions, quarrying, water-supply, railway and bridge building, and the erection of work-shops, crushing plants and smelters, and he often has to do this prelimin try work so hastily that his methods must be somewhat rough and ready. The course at the Polytechnic Institute at Troy involves an extremely high standard ot mathematical teaching; and in such a country as America there is a sufficient demand for engineers with highly specialised mathematical training to maintain a school with such an advanced course. will make efficies t working engineers although they may But many men not have sufficiently mathematical minds to profit by the troy system. In the same way in this country, it is necessary to train colliery managers, who may be thoroughly efficient in their own work, without undergoing the wide training of a fully qualified mining engineer. vision has therefore to be made for mining schools with the double standard: a diploma course for colliery managers and the managers of small mines; and the higher degree course for those who are able to give the necessary time for the four years of advanced study.

Mr. John Burns, M. P. opened a new municipal electricity station at Southwick, Brighton, which has been provided at a cost of £300,000. He mentioned that in 1881 he built the first electric transcar in this country and ran it round the grounds of the Crystai Palace for six months before people could be induced to believe that electric traction was possible, even as a toy experiment. Not to be overcome, he induced his sweetheart, now his wife, and her mother to go down to the Crystal Palace occasionally and get into the electric car to act Pance occasionary and german law.

Mr. Burns declared that in the United Kingdom we have, municipal-The manay reminsura is the great tin productive, the best govorned people in the state of the world at the present day, and servants of probity and efficiency; and, speaking broad-the States with the largest output are under Brittly and generally, we have the most disinterested group

MARITIME MINING RECORD.

The MARITIME MINING RECORD is published the second and fourth. We dnesday in each month, $\$

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

Advertising rates, which are moderate, may be had on application.

Subscription \$1,90 a year. -: Single Copies 5 cents.

R. DRUMMOND, PUBLISHER.

STELLARTON, N. S.

JULY 25th, 1906 -

Says the Suburban :- "We are sorry to find the editor of the Record defending the essential principles of a combine." Well the editor of the Record has not set himself the task of discovering what these principles are, therefore if he is defending them there cannot be much wrong with them, as he defends only what he deems to be right. We have been defending, perhaps, the coal companies against the charge of being extortionists, of being so utterly selfish that they do not care what harm they do to others so long as they themselves are benefited. We have produced evidence from many quarters to prove that if the price of coal is high, there are good and sufficient reasons why it is so. We have shown that if the price of coal has gone up within the past five years. five years, the increase was made necessary, by the great increase in wages, by the enhanced cost of materials necessary to mining, and by the growing depths of our mines. We have produced figures, which cannot be disputed, to show that colliery workers in very many cases are making twice the wages they did four or five years ago, and that while part of the increase is due to steadier work, the biggest part is due to increase in rates for contract as well as day's labor. The contentions of the Record, as regards increased cost of production have not been met, indeed no attempt has been made to meet them fairly. Instead we have had as arguments such misleading half truths as the following "The coal mines of Nova Scotia are wonderfully well placed by nature for cheap transportation. Far frem there being anything in their situation to justify dear coal, they are intended by nature to give us an advantage over all other countries". Nature has not been so very indulgent as at first blush might appear. It is true that our mines are at comparitively short distances from tide water. Had nature placed them as remote from shipping points as are the mines in, say, Virginia, then nature had rendered any development of coal mining in Nova Scotia impossible, now or for ages to come. Nature is not a stranger to the law of compensation, if some Nova Scotians are. If she placed the mines of Virginia at great distances from tide water she more than compensates for that by giving Virginia a splendid article of coal, easily mined, being of easy angle, requiring little tim-bering, and no expensive pumping machinery, and therefore coal that can be produced cheaply, so cheaply indeed, that what Virginia may loose in comparison with Nova Scotia on account of distance from tide water is far more than made

up. Nature has been so kind to a majority of the coal mining districts in the U. S., by giving coal easily and unexponsively worked that the kind-ness shown to Nova Scotia in the matter of transportation facilities, falls very far short in comparison—in proportion. The mines in parts of the U. S. can bring coal to the surface and transport it 300 miles by railway, as cheaply as a majority of the collieries in Nova Scotia can put it on cars at the pit.

- Rubs by Rambler.

Some wise men from the east, in other words, some recently arrived Scotsmen, have taken possession of the P. W. A. lodge at Sydney Mines, and are trying to introduce some old, new fang-led notions. Some of these base their claim, to be heard, on the fact that they have sat at the feet of Keir Hardie, whose strong and only prominent characterestic is his oddity. He may be a smart man in his way; he is decidedly outre, And so are his following. They have a desire to And so are his following. be unlike ordinary, decent citizens They are in a hurry to turn things, especially the P. W. A., upside down. It is too slow, and two stupid. But what do these Scotsmen know of a well regulated trades union. Outside of Weir's organization in Fifeshire, can they point to a thorough miners' organization in Scotland. How long ago is it since a leader was chosen in Ayrshire, Lanarkshire, etc, not so much on account of his fitness, as on his ability to make promises. Has there been a competent leader since Alex McDonald left the stage. Men who are union men by fits and starts, when there is anything to be made out of it. only, at once, are not quite the men one would think to tell the members of a society which has an unbroken record of advancement for twenty-seven years, how they should conduct These new comers propose that the Grand y should not be elected at Grand Council, but by the lodges in a cumbersome way. This would mean that the Gd. See'y would require to be at the beck and call of each lodge. If he did not do what a lodge wanted then it would threaten to east its vote against him first opportunity, just as the man who is not sick threatens to punish the doctor who will not give him a line to the liquor vendor, or the chairman of the relief committee. The Grand Council has served its purpose admirably, just as the P. W. A. is fulfilling its mission. An innovation which is not a reform should find no favor, and therefor the proposed innovation in the mode of election of Grand Secy. should be rejected without palaver. Instead of being a reform the proposed mode of election would lead to bickerings and jealousies, and be a hindrance to Talk about New Zealand and its adefficiency. Talk about New Zealand and its auvanced labor legislation, why, for real progress, and comfort, for real harmony between employers and employees New Zealand is not once in it with Nova Scotia.

Is it not strange that an exaggerated state- too cheap, and would have had on this account a ment finds favor quicker than a simple statement bad effect, in what particular direction, I beg of fact. Here we have an instance in the Truro to be excused at the present moment from relat-News and one of its correspondents. They act ing. There may be in the foregoing a parabolic utility affect to believe the Suburban's statement flavor, only, but that should be sufficiently strong Montreal; that it costs twice as much as it did ten years ago. The fact is, as pointed out in the Record more than once, there is little or no consum-rangements for classes at the mining districts the ption of soft coal in Montreal for domestic pur-

The Suburban gravely asserts that the Domincommon stock, neither on the portion watered or terms, or as some may perfer to say, synonymous —is forgetful for the time of that axiom to be with n reach at home for securing all the knowfound in holy writ "Let him that is without sin ledge that may be gained by correspondence
among you first cast a stone," or that awfully schools, there might be an excuse for so many
hackneyed saying, not exactly found there, "Peo- Nova Scotians taking courses in alien institutions
halo be in glass houses should'nt throw stones." If But at home all the knowledge, and more, that
stock mostly water, I think I know of another quired within our own borders, and be it noted,
coal company of which a similar thing may be at less expense. Our minors in matters of gaparcoal company of which a similar thing may be at less expense. Our miners in matters of genercoal company of which a similar thing may be at less expense. Our miners in matters of gener-said. I will not go into particulars unless oblig- al interest, in all things pertaining to material ed in fair argument to do so. The Suburban and social advancement are striving after the ed in fair argument to do so. The Suburban and social advancement are surving after the should know there are different modes of making best, why should they not also strive after the stock absorb water. Perhaps I should put it this best in educational lines. Let it be taken for way: Water can be made to absorb stock, and granted that the mining schools shall not be inway; water can be made to absorb stock, and granted that the mining schools shall not be instock can be made to absorb water. The distiller terfered with until it is demonstrated that they who sends out his stuff five per cent under proof have ceased to be useful. against interest gamons of water to his ten over. There are those who come to the concursion at spirits. If the one is the rogue so is the other, a jump that the scarcity of unskilled labor quest. And yet I don't say either did a great wrong for ion up for discussion at the present time is one of the stuff at 95 might be of the consistency to do easy solution. A writer in the Harald says significant. the stuff at 95 might be of the consistency to do easy solution. A writer in the Herald says "in-the least harm. And so with stock. If the Dom. crease the rate of wages and the trick is done," Coal Co., or the other company I have in my and the Sec'y of a free trade, or tariff, I forget

They act. ing. There may be in the foregoing a parabolic

poses, therefore there can be no true comparison antagonism to the carrying out of these classes retail in Halifax. The Record also gave figures sion got abroad last year, and has not yet been showing that the shaher manufacturing conformal whom y dispense, that these classes were intended, sumers in Montreal paid much dearer for their in course of time, to supplant the excellent gov-fax or other parts of N. S. The Record has clear- for a number of years. There was not any good dearen in N. S. The Record has clear- for a number of years. There was not any good dearen in N. S. The Record has clear- for a number of years. ly demonstrated that coal to manufacturers is not grounds whatever for this suspicion. The thought dearer in Nova Scotia than Montreal. In contranever entered the minds of the government nor more for its coal at the mines than does the G.T. de that the mining schools would be the alpha not the whole truth it is misleading. The L.C.R. They were instituted to supply a napparent need. In a montreal, First is true, but because it is and the omega of teenmeal instruction for inners, not the whole truth it is misleading. The I. C. R. They were instituted to supply an apparent need, demands screened coal; the G. T. R. is content but it was never intended that they should fully with run-o-mine. That means a difference of meet all needs for all sime to come. They are perhaps fifty cents a ton. The G.T. R. takes the still needed and will be still carried on as of old. coal in five to seven thousand too ship loads, But between the knowledge to be acquired at the whereas the I. C. R. takes it in from 6 ton hop-mining schools, and that imparted in a thoroughpers to 30 ton gondolas and takes it not when it ly equipped college, there is, it must be admitted, pers to not ton gomeons and takes it not when it by equipped conege, there is, it must be admitted, suits the company, but when it suits the railway, a rather big gap. To fill that gap is the chief, in That means at least other fifty cents a ton. There-deed it may be said is the one object of the government of the first one of the government of the first one of the government of the government of the first one of the government of the gover stop or discourage the bringing in of men from other countries to fill the more important position Coal Co. does not keep up the price of coal to that larger and more advanced facilities for techions in the mining centres, then it is necessary consider the companies in Cumberland and Pictou nical education be afforded than can be supplied to do business, but to enable it to pay a dividend by the mining schools, excellent though they be on fifteen millions of common stock, mostly water, in their way, a necessarily limited way. Thousands as the company is not paying dividends on its upon thousands of dollars annually go out of contains stock, nearner on the portion watered or nova scoula to correspondence schools. These on the portion left in its original arid state, it is are good in their way, and no one will deny that safe to infer that the company did not put the they have accomplished good. But after all is price up high enough. I wonder if friend McNeil said that can be in their favor, they are not to be MeNeil and the Suburban are interchangeable compared to the living voice—to instruction conis forgetful for the time of that axiom to be with a reach at home for securing all the know-

Conrect, or the other company 1 have in my and the secy of a free trade, or tarin,—1 torget mind, administered a potion to the stock, it may which—league hastens to the support of this solhave been that the stock in the first instance was ver. People should avoid attempts to solve pro-

blems, that are above and beyond them. Of course if the Dominion, or other, coal company was to lety in general or a society in particular should offer two dollars a day to unskilled labor it would get all of it that was required. But that would be anything but a solution of the question, for the drawing, by means of higher wages, to its works, of laborers, would mean the draining from some other company. If the coal companies gave unskilled laborers as high a wage as skilled, they would get all the loaders they might require, but at the expense of reduced output in the mines by a falling off in the skilled labor supply. It is not the low wage that is the cause of the short supply of labor, but the great demand all over Canada for men to work in the mine, the mill, the factory and the farm. The demand is strong, and the supply is short, and higher wages would not cause labor to be more abundant, at all centres, of. Here it is: unless indeed they brought flocks of immigrants from other lands. The writer in the Herald seems to forget that labor was far more abundant at the mines when labor was low, than now when it is high. wages that would attract at once crowds of outing. We may effect to peoh pooh the law of the proposed system will entail, for the present, supply and demand, but it is inexorable.

Labor an annual expense of \$7,500.000.

These proposals and measures show that social the proposals and measures show that social the proposals and measures show that social the proposals are proposals. is scarce because the present demand is greater than the supply, and higher wages could not well ial amelioration and social legislation are still the help to an immediate supply so far as Canada order of the day in progressive countries." generally is concerned. If the farmers in the — It will be noticed that a man who is tion of foreign laborers, the semi-savages of Con-than a sum in hand of \$1,150 tinental Europe, but better far to bear the ills and inconveniences we have than have added to labor should be a little scarce, than over abundant. Things will find their level by and bye.

paper at least is taking credit for doing what it did not do. Several months ago this paper called loudly for old age pensions to miners. to the scheme, indeed the impression was plainly conveyed that the government should be the burden bearer in producing the necessary funds. The miners did not want any pension scheme formulated after such a fashion, that a scheme of that tangible. Anything for a cry. tended, that a seperate pension scheme would be ent sand in them they can make provision for unnecessary. It is not displeasing to discover themselves either as individuals or as members that the Record's views are being endorsed, if of some fraternal association. If they will work I may not say appropriated, in other quarters—steadily with the wages presently going, the ma-I am an out and out believer in the help self, or jority of the miners can make provision fit for a

self help school. I do not believe the state, soc do for men what they are well able to do for themselves. Why should the state make provisthemselves. ion for the old age of miners, while it makes no provision for the more numerous lower paid classes of clerks and shop assistants. The state must have no step children. At the time the Record took the ground above referred to it also threw out the hint that old age pensions might prove a delusion and a snare in this country of comfortable if not luxurious living. I said that a pension of two dollars and a half a week might only tend to accentuate poverty. Such a small rate of relief was ridiculed. Well what do we find? That those who did so now enthusiastically quote what an Australian Royal Commission approves

The commission has made a unanimous report in favor of a system of pensions for the benefit of all reputable persons of the age of 65 (or of 60 if when labor was low, than now disabled), such pensions to be regarded "not as a It might be foolish to offer charity but as a right." The cost of the federal system is to be charged upon the general consolisiders. Trade is not always going to keep as dated revenue. Every British white subject of brisk as at present, and should it fall off, and the the commonwealth is to receive \$2.50 a week, unlabor market become glutted, then high wages less he has other sources of income, in which case as an inducement to attract to a particular localhe is to get less or nothing at all. Those who are ity, instead of having proved a solution will be worth \$1,150 or more are entitled to no payment found to have made the question more perplex- from the public treasury. It is estimated that

It will be noticed that a man who is worth west induce by higher wages, laborers to go there \$1,150 is not to be a pensioner. This is most pecfrom the east, Canada as a whole is not benefit uliar and may have but one effect, viz. to force ted greatly, for what the west gains the east loses. the man to spend his savings before he reaches A solution of the difficulty might be the importathe age of 65, as even \$2,50 a week is better far

In a new country like Canada there is no cryour population so indesirable a class. Better that ing need for a pension scheme. There are other reforms that might receive prior attention. Why is not the miner as able to make provision for old age as the clerk or the bookeeper. He receives In the matter of old age pensions I see one as high a wage. To say that he cannot make provision or save for the future is a reflection on his intelligence or on his morals. He either lacks There judgement or he lacks will. But he lacks neither was nothing said about the miners contributing and therefore it is that there is no agitation among the well doing and the industrious miners for old age pensions. Of course there are shouters for old age pensions who do not know what Record took the ground that self-respecting they are shouting for. To them it matters not whether the thing shouted for is indefinite or in-Where there is a kind would have if anything a pauperizing effect. sturdy manhood no cry for old age pensions is The Record claimed that if there was to be a heard. Of course we will ever have with us the pension scheme which would not carry with it the unfortunate, or afflicted poor, those mained, those odium of charity it would have to be so wide that lame, and those blind. For such as these provisomain or charty it would be participants, ion must be made as they cannot make it for The Record contended at that time that the themselves. But just yet there is no need of pro-Relief Societies could have their operations so ex- viding for the able bodied. If they have sufficitended, that a seperate pension scheme would be ent sand in them they can make provision for

prince. There are certain people in all communities who think they should be fed with govern-future as well as the present. I might go the length of ment pap: there are certain communities who saying I believe in compulsory provision as surely as I enumer the aid of government believe in compulsory arbitration—though the two crutches and there are certain cities that would words juxta-position may seem anomalous. stead of the miners taking these as examples, let them stand on their own legs, and work out their own salvation-uplifting, advancement.

Those who desire purity in elections can scarcely join the party p ess in their glee that the Halifax contested election case was thrown out of court or, as the Chronicle puts it bowled out, on a technicality. Honest party men, on the liberal side would rather that the case had been dismissed on the grounds that no proof of corruption had been submitted. If the law regarding bribery at elections is too drastic, if a member may be unseated on grounds which a majority consider trivial, then let the law be amended. Far better there should be no law on the subject than that the law should be a comedy. How can the common people be expected to be upright, honorable and manly, if the very law makers, are tricky, and try by any and every quirk to make law a laughing stock. If those against whom petitions were laid were guiltless of any breach of the brib-ery law, why did not they face the music like men. The very fact that they sought to avoid service is suspicious. Of course it may be said that the petitioners would do the very same acts of which they desired to convict the respondents. Two blacks dont make a white Talk about the Scott Act, it never was the howling farce that the election law is.

at least one point, taken by the Record several mon-

at least one point, taken by the recent of several mon-ths ago, in regard to old age pensions. He writes: "Regarding the 'old age pension' proposition, the question is asked "whom do you propose to pension?" and then it is argued, "if you pension the needy only it

In the estimation of the writer the point is well taken if only the needy are pensioned, but in common with many others, he holds that the pension should be general. Rich, well-to-do and poor should be included."

ment in favor of pensions advanced by the writer, of the foregoing, particularly when he says

mercial battles as well.

the people paid the sailors and the soldiers from two to extended to apply to workmen as well as bosses. four dollars a day for a short days work, then I am not short, that the enginemas, or miner, convicted of the duite so sure the people would think they were under offence named have his certificate suspended. Such a

The argument of certain partizan papers, against clergymen interfering in politics, will apply with equal farce to a clergyman opening his mouth in the pulpit on almost every any every day topic or on any matter whatsoever. For instance, here is the argument of the Amherst News. The average intelligent citizen is generally just as well informed, if not better than the erany just as wen informed, it not better that delegement and he does not desire his advice as to how he should vote." Very well, let me put it another way: The average citizen knows just as well as, if not betterthan, the clergyman, what is set forth in the moral law, and he does not desire his advise as to who he will worship, what day he should keep holy, what language should proceed from his mouth, what thoughts should be in his heart, what his conduct towards his parents should be, what, his relations to his neighbors; what things he should not appropriate, what things he should not even covet, and what, in short his general conduct should be. The average citizen knows just where he should stand, and yet it is not considered bad form for a clergyman to remind him of his duty.

Our colliery workers claim, and we will not say their claim is without force, that the law that applies to a workman, for a breach of the Mines Regulation Act, A writer in the Hakfax Herald takes the ground, in of the local house they applied for an amendment to the law, which was granted, and which enables a workman to have a boss, guilty of a breach of the law punished. I suppose they will admit that it is a poor rule that works only one way. If they insist on putting the gander on and then it is argued. If you pension the needy only it they must, to be fair, place the goose on the same footing, in an analogous respect, as the gander. In demanding a square deal they don't mean a half of a square but fair play all round. Coming at once to the point; will the M. P. P. for Cumberland County, or Brother I can scarcely concur in the soundness of the argu- of the P. W. A. be good enough to show reast n why a boss may have his certificate taken from him, if convictsong, particularly when he says:

The soldiers and sailors of the empire, when the engineeram be liable to no such drastic discipline. The ed of drunkenness or gross negligence, and a miner or an age limit is passed, are pensioned off for the remainder point may be raised—it would only be a quibble—that age man is passed, are pensioned our for the remainder point may be raised—it would only be a quibble—that of their lives, on the ground that they gave their vigor- a boss cannot be convicted unless his drunkenness tends ous manhood to the defence of the country. Why to unfitness. Will it be said that a man who gets full should not those who fight and win the industrial bat- on Monday is fit for work on Tuesday. If he gets full on should not those who nght and whi the mulustral out. It is not all the country be treated likewise? Not only those any day he is unfit for duty on that day, and is therefore who fight the industrial, but the professional and com- open to a charge of drunkenness, and consequent neg-The analogy is far from perfect. Sailors and soldiers gives the Commissioner power to suspend the certificate ligence. Sub-section D of section six of the Mines Act are the servants of the whole people, do not serve a par- of a boss convicted of drunkenness or gross negligence. ticular employer. If there is gain from their service How would it do for the lodges of the P. W. A. which then the whole country participates in the profit. If are foremost in all good work, to ask that the clause be quite so sure the people would think they were under onence named have his certificate suspended. Such a obligations to make old service retiring allowance. Old law would compel the officials to discipline whether they age pensions are a good deal of a delusion. The ideal would or not. Will some one show why the clause of workingmen should not be old age pensions, but a should not apply to certificated men of all classes,

AROUND THE COLLIERIES.

The Suburban's last article on "Coal" affords hope of a speedy return of the editor to soundness of mind on the question. Our friend's opinions are not so rasping, as the assertions he makes and misnames facts.

Prices at which the I. C. R. will get coal this year have not yet been fixed. The railway department is making a big effort to get the operators to take a less price than in previous years. This the operators how-ever anxious, cannot do, owing to the big wages paid and the high price of material.

Definite information is not yet to hand in reference to the distribution of the I. C. R. contracts. It has been announced by the M P's, of the mining counties that the following are the allotments:—Springhill has 80,000 tons; Joggins 20,000 tons; Maritime 40,000 tons; Acadia 50,000 tons; Intercolonial 50,000 tons; Dominion Water coal: Dominion 74,000 12,300 tons at Sydney. tons : Nova Scotia Steel 36,000 tons ; Intercolonial 10,-000 tons, and Gowrie 3,600 tons.

The Maritime Railway, Coal and Power Company have definitely decided to establish an electric power plant at their mine at Chignecto. The contract for the electrical apparatus necessary for the work has already been awarded and it is confidently expected that the plant will be in operation before the end of the year, Smaller industries will naturally gravitate to the place where power can be furnished with the smallest expenditure of capital and that place will hereafter be Amherst.

Inverness County showed up best of all the districts in the late examinations. It is the only county which has Managers and Underground Managers alone to its credit. Its candidates evidently were inspired with the motto "Pluck at a gown of gold and you may get a sleeve o't. They got more than a sleeve. That sixty per cent of its candidates were successful in securing first class certificates is most creditable. Though Cape eleven for Cumberland, nine for Pictou and six for Inverness, it must not be thought that it was the most prolific in candidates, on the contrary it is at the foot of the poll. For instance if we take the menemployed at the collieries last year, Cape Breton County sent a candidate to the examina-tion for every 286 men employed; Cumberland one for every 221; Pictou one for every 204, and Inverness one for every 102 men it employed. Or if the tons shipped be taken: C. B. sent a candidate for every 106 000. ate for every 106,000 tons; Cumberland for 48,000; Pictou for 44,000 and Inverness for every 25,000 tons shipped: So in any case Inverness is an easy first and C. B. an easy last in the matter of successful candidates.

The land of ceasless summer pic-nic's-Cape Breton.

It is reported that a party is out whose object is to once more discover the Mullin's seam. Mullins is the most wonderful seam in C. B. • It is always and everywhere cropping up,

Mr. W. S. Wilson, lately underground manager of the Hub, now fills the position of Coal Inspector for the Dominion Coal Co. Mr. Wilson has had long experience and should be able to put an embargo on coal not properly cleaned or handled.

Dr. Horton, a famous English diving paid a visit a short time ago to Germany. He described to an audience, after his return, a Sabbath as he saw it in the protestant city of Nuremberg, where after ten A. M. the people gave themselves wholly over to frivolity:—

As he walked about amidst the gay throng and listened to their souless laughter he said to himself: 'These German people are becoming a negligible quantity. They are forgetting God. They are neglecting the Sabbath. Remembering one part of the Saviour's words, that the sabbath was made for man, they are forgetting the other, that the Son of Man is Lord also of the Sabbath." England need never fear German competition, unless Germany should recover, and England should lose, the Sabbath. But inasmuch as every true German patriot was seeking to regain it, while in England it was being filched away from us, he thought we had every reason to dread German competition.

Referring to operations at Port Malcom the Eastern Journal says:-The work of sinking the shaft at Port Malcom proceeds under double shift without interruption under the supervision of Mr. H. M. Pearl and of the genial President of the company Dr. Dolly. The Canadian Consolidated Coal Co. has purchased and paid for land at Indian Head, Port Richmond where it is said a large and modern coal pier will be erected at an early date. It is distant about three miles from the Breton secured thirty one certificates as against mine where the water runs bold and deep to the shore. An ideal spot for shipping, open all the year round. Several cargoes of building material has already been received by the company at Port Malcom, which will be utilized in the erection of about fifteen miners houses almost immediately. With many thousands of dollars worth of modern up-to-date machinery in operation, with the purchase of a site for the shipping pier, with the receipt of material for the erection of a large number of miners houses, besides the large and commodious buildings already at the mine; no doubt can be entertained of the fact that the company has all the coal required, as shrewd capable business men such as Pearl and Dolly would'nt certainly go to such a large expenditure otherwise.

MINING	-	TAR TIA
MIMING	EXAMINATIONS,	1900
nll 1:-4 . e		1000.

Full list of successful Candidates from the

several Districts.

-INVERNESS COUNTY .-

MANAGERS.

**	MANAGERS,	
No. 200 201 202 203	Name. Robert H. Gray Walter F. Davis James S. Quigley H. A. McLeod	Address. Inverness Inverness Mabou Inverness

UNDERGROUND MANAGERS.

204	Al- t Ti -	MANAGERS.	
208	Alexis F. Glabais John Henderson	Inverness Inverness	

PICTOU COUNTY .-

MANAGERS.

9 35	John Higson Samuel Moss	Stellarton
	LIMBOR	Westville

UNDERGROUND MANAGERS.

15	XX72111	MAGERS.	
17 27	William Arthrell John D. McKay Joseph Smith	Stellarton Coalburn Westville	

OVERMEN.

11 23 29 31	Alexander Munro Archibald Black James Wadden George W. Horne	Stellarton Westville Westville
	e Horne	Westville

-CUMBERLAND COUNTY .-

MANAGERS.

303	William D M	
	William D. Mathews	
	UNDERGROUND MANAG	Pringilli
306	T	ERS.

306 James P. McNeil

307 309	James P. McNeil John G. Evans William Hartley	Springhill
314	William Letcher	44
317	John Rector	44
318	Thos. Carr	Chignecto

Forest Mitchell OVERMEN.

319

310 311 312	Phillip Vienneau James T. Hartley William T. Letcher, Jr.	Springhill
	1. Letcher, Jr.	- 44

-Cape Breton County-

MANAGERS.

105 110 111 112	John C. Nicholson Alex. S. McNeil James D. Maxwell Bart Connors	Dom. No. 1 Dom. No. 4 New Aberdeer
	UNDERGROUND	Reserve Mines

UNDERGROUND MANAGERS.

119	Town 15	ANAGERS.			
120 122	James Moseley Joseph Mann William Large	Glace Bay Sy. Mines No. 3 Sy. Mines No. 3			

	100		_
	123	Martin Weir	
	124	Ion well	
	125	James R. Dinn	
		Michael A. McNeil	
	128	Allon A McNeil	
	129	Allan A. McDonald	
		oonn Murphy	
	132	Androw B 10	
	133	Andrew Ballie	
		John Hunter	
	134	George Ballie	
	135	Horse Online	
	136	Henry Oliver	
		Samuel Shone	
	137	Alex D Mone	
	140	Alex. D. Mathewson	
		Luther Saville	
1	145	John I	

Sydney Mines Bridgeport

New Aberdee n Caled. Mines

New Aberdeen. Sydney Mines

Caled. Mines

Bridgeport Dom. No. 4

61 New Aberdeen Reserve

145 160	John Jos. McIntyre Wm. R. McDonald	Sydney Mines Sydney Mine Bridgeport Port Morien
121 126 127 131 139 143 147 157 159 161	OVERMEN. Thomas McDonald Thomas Kavanagh Norman E. McDonald William McDonald Andrew Cunningham Lauchlin X. McNeil John P Young Thomas Branton William Edwards Duncan McNeil	Reserve Bridgeport Glace Bay Port Morien Sydney Mines Dom. No. 1 Dom. No. 6 New Aberdeen
ny of	ecord is particularly	long-14

The Record is particularly pleased to see so many of its friends secure the higher grade certificates. Of the eleven who were able by merit alone, to claim managers certificates, no fewer than nine are subscribers to the Record and possibly the remaining two have a side glaace at it occasionally.

Development work is proceeding briskly at the Mabou mine. Levels east and west have been driven in the new lift. A balance is being driven on the west side level of this lift.



Head Office Head Olice
187 Hollis St., HALIFAX
Transacts a general trust business
such as acting as Execut, Admin
istrator, Guardian, Trustee, Registrar or Transfer Agent for an estate

Folders obtained form Branches Bank of Nova Scotia.

Brick! Brick!

The Westellar Terra Cotta Company

having taken over the business of the Stellarton naving 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 ENQUIRIES AS TO PRICE AND QUALITY.

Works: - SYLVESTER

Head office - STELLARTON.

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

AROUND THE COLLIERIES.

for Montreal

以下,我们们为此为"这种"。

Referring to the possible route of the Guysborough Railway an e-teemed contemporary says:-"Whichever the route adopted will be the cars No doubt, that has will run 'into' New Glasgow." been distinctly promised, but how many feet.

A superintendent of a coal mine asked for an item or two the other day replied: There is nothing new; yesterday was pay day, and half of our if it is found he has been unfairly dealt with, then men were off work." To be off work after pay is nothing new at a majority of the collieries.

More's the sorrow of it.

Mr. Henry Ritchie Jr., of New Glasgow was

Mr. M. S. Beaton has been promoted to the position of resident manager at the Inverness Colliery. Mr. Beaton is a capable mine man, and the company was well advised in selecting him to succeed Mr Campbell, Mr. McGillivray has charge of the railway, and the coal sales, and the his patrons.

office work generally. As both men are strong we should hear of progress and enlargement at Inverness.

The Dom Coal Co. lately shipped a five thousand ton cargo of coal to Mexico. When the car-go reaches its destination it will be put through a series of tests. If these are successful then the chances are that some railway companies in that country may enter into contracts. But it is not anticipated that any large quantity of provincial coal will find its way there, probably not more than 50,000 tons under the most favorable condit-

The S. S. Times which was chartered by the Last month was the busiest and best in the N. S. Strol & Coal Co. for a few lays, came back history of the Steel Works at Trenton. In June to the "Lan "ing" last week as laded with coal no less a quantity than 3600 tons of finished proious mills and machines.

> A very strong letter referring to the Board of Examiners has been received from a candidate who failed. As the Record has asked for the complainant's papers for publication it may be as well to hold over his strictures. If he failed after an impartial trial then the least said the better;

tricians held in Sydney last week. Young Ritchie gives promise of attaining a foremost place in his profession. He is intelligent and energetic, and can work with his hands as well as his head. Work he has done lately has been satisfactory to

Mr. J. W. Cumming of New Glasgow, the well known maker of all kinds of mining tools is doing a very large business. He has found it necessary to add largely to his premises and machinery. The workshop has been enlarged to 70 x 40 feet. A new steam hammer has been installed, also a combined about the complex of the combined about the combined shearing and punching machine, and an additional trip hammer. Indeed Mr. Cumming has all the latest tools to facilitate the cacrying on of his business. He gives employment to twelve hands, who have their hands full, business is so brisk.

It will indeed be a GREAT Exhibition.

PREMIUMS

\$100,000

Take a Holidau

Race Purses \$9,000

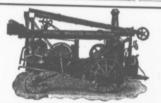
and Visit the Garrison City for the

If You do You'll be GLAD You took the Trip

SEPT. 22 October 5 THE DATES Ta and ET

Halifax. N. S. Canada. THE PLACE

Write to M. McF. HALL, Manager, Halifax, N. S. for Information.



The KEYSTONE

Percussion Core Drill Attachment is an economical appliance for TESTING COAL LANDS.

It can be used in connection with any good "churm" drill, but operates best on the long stroke KKYSTONE, thus making the cheapest and quickest method of sering to be found.

In operation a hole is sunk to thing the corinary Rock Bit. The Bit and Stem are then removed with the ordinary Rock Bit. The Bit and Stem are then removed the Coring Attachment put on in their place. It takes a 4 ft. the Coring Attachment put on in their place are the removed and the soft as well as at the Hardest part or the vein. Avoids all delay and expense of 'rods' water wash, diamonds, shot, and heavy operations mechanism.

Price of Complete Attachment \$200.00

Catalog No. 2 B. is a book on the subject. We make Water, Oil & Test Well Drillers for all depths and purposes.

Keystone Driller Co. Beaver Falls, Pa.



Herzler & Henninger Mach. Works. Manufacturers of the H. & H. Coal Cutters & Tornado Coal Drills. Belleville, ILL., U. S. A.

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

MABOU DIAMOND COAL.

Burns and Works like Bituminous:

Looks and Lasts Like Anthracite:

IT HAS NO EQUAL.-

Mines, Piers and General Offices MABOU, CAPE BRETON.

MONTREAL STEEL WORKS Limited.

STEEL CASTINGS FORGINGS. SPRINGS. FROGS CROSSINGS.

We make a Speciality of cast Steel WHEELS

and other Steel Castins for

INTERLOCKING SWITCM AND SIGNAL Plants. CANAL BANK, POINT ST. CHARLES MONTREAL-



Fairbanks Morse Duplex, Piston Pattern, Boiler Feed Pump.

Steam Pumps, Power Pumps, Fire Pumps.



Fairbanks Morse, Vertical Duplex Boiler Feed Pump, Marine Type.

We make pumps for all Purposes, and have a VERY Extensive Line of Patterns.

Our aim is to Build a High Grade Line of Pumpin Machinery.

The Material and Workmanship entering into the Construction of Our Pumps is kept up to the highest Standard at all times.

All the Wearing Parts are made to Gauge and are therefore interchangeable.

BEFORE IT LEAVES THE FACTORY



Fairbanks Morse Horizontal Duple Power Pu

Send for our Catalog 48c, or have our representative

in your vicinity call on you.

REPRESENTED BY

A. F. LYTLE, New Glasgow, N. S.

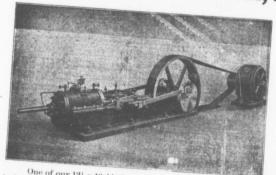
K. N. FORBES, Halifax, N. S.

G. E. Choinier, St. John, N. B.

The Canadian Fairbanks Company,l

Montreal, Toronto, Winnipeg, Vancouver.

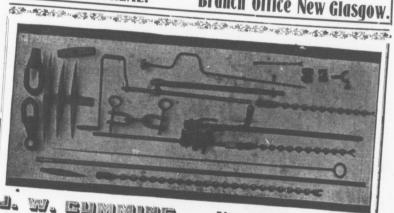
llis-Chalmers-Bullock, L't'd.



One of our 121 x 18 Air Compressors driven by a 50 h. p. In luction Motor, and supplying power for a Manitoba quarry.
For different uses of compressed air see Catalogue 75 F.

Works, MONTREAL

Branch Office New Glasgow.



New Glasgow, N. S.

DESIGNER AND MANUFACTURER OF-Miners High Grade Tools.

Cumming Coal Boring Machines, Augers, Mauls, Wedges, Copper Needles, Tamping Bars Cones and Swivles for Wire Ropes, Drawbars, Mountings, all kindsot forgings

Boring Machine Parts always on hand, Any Kind of Pick to Order. THE PROPERTY OF THE PROPERTY O



Synopsis of Canadian North-West. Homestead Regulations.

ANY even numbered section of Dominion Lands in Manitoba or the NorthWest Provinces, excepting S and 25, not reserved, may be homesteaded
by any person the sole head of a family, or male over its years of age, to the
Application for homestead entry or inspection must be made in person by
the applicant at the office of the local Agent or Sub-Agent.

An application for entry or inspection is whole-agent, at the separation of the property of the property of the applicant, and if the land applied for its vacant on receipt of the telegram such
applicant, and if the land applied for its vacant on receipt of the telegram such
applicant, and if the land applied for its vacant on receipt of the telegram such
applicant, and if the land applied for its vacant on receipt of the telegram such
applicant, and if for the applicant will be accumually cancelled and the
applicant for inspection will be accumually cancelled and the
applicant suffered all priority of claim.

An applicant for inspection must be eligible for homestead entry, and
also nearly adjusted to approved of bepartment, reliquish it is favored.

And the suffered all priority of the properties of the received from an individual until
that homesteader whose cutry is in good standing and not liable to cancellation, may, subject to approved a frequency of the person of the properties of the received from an individual until
that homesteader whose cutry is in good standing and not liable to cancellation, may, subject to approved a frequency of the person of the person of the control of the person of the pers

DUTIES,...A settler is required to perform the conditions under one of the

or the solutions as of the control o

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGILATIONS.

Out. Coal lands may be purchased at \$0 per area for soft coal and \$2) for anthractic. Not more than 30 across can be acquired by one clinical or company. Royalty at the rate of ten cent per ton of 200 pointed shall be collected to the control of the con

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

able yearly.

A free miner may obtain two leases to dredge for gold of five miles each for a term of twenty years, renewable at the discretion of the Minister of the

Interior.

The lessee shall have a dredge in operation within one season from the date of the lesse for each five idles. Rental \$10 per annum for each mile of river leased. Royalty at the rate of 2.1-2 per cent collected on the output after it exceeds \$10.0.

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

NOTICE.

MINES OFFICE HALIFAX, N. S., June 16, 1906. MINES OFFICE HALIFAN, N. S., Sune 46, 1990.

AN Examination for first arting Certificates of Competency to Stationary Engineers will be held at Springhill, Stellarton, North Sydney and Invenes, on July 17th, 1996. Applicants for certificates of service and firmen will be examined on July 18th.

Applications must be sent in not later than July 9th., to the members of the Board for each district, who can furnish any other includes the second of the sent of the second of the s

nemners of the board of cardinal members of the board of commation that may be desired.

MEMBERS OF THE BOARD.

John Barrington, North Sydney, A. F. Campbell, Inverness.

H. F. Coll, Stellarton, H. R. Groggett, Springhill.

WM. T. PIPES, Commissioner Public Works and Mines

. 1

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-

The Archibald Company, Limited

bit its.—A setter is required to perform the conditions under one of the following plans of

Nova Scotia. TRURO.

NOT ONE CENT FOR REPAIRS



An experienced Engineer has written us as follows:

"After eighteen months of hard service, the Robb engines are in excellent shape, running very smooth and without a bit of vibration. Up to this time they have not cost one onent for repairs, the only expense being steam, oil and pack-ing, and this below the average. Perfect alignment, parts well machined, and good design make the Robb the most economical and lat or saving engine that has ever come un-derney notice. der my notice.

Robb Engineering Co., Ltd. Amherst, N. S.

HAMILTON'S ZEPHYR

...PILOT.

CALLED

"The Prince of Pilots."

Beyond Comparison. The Finest Pilot Biscuit Made. ASK YOUR GROCER FOR IT.

G. J. HAMILTON, & SONS.

Pictou, Halifax, St. John.

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 & 5th Eds)
A. L. Liebers and Pricate.

Wire Rode Winding & Haulage

Aerial Ropeways, Suspension Bridges, etc. Collieries and Mines. 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

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

—Different Sizes and Qualities kept in Stock

CAPE BRETON COLLIERY.

SUPERIOR-

STEAM AND DOMESTIC COAL

SAFE AND CONVENIENT SHIPPING PORT

The Nearest Coal Port to Newfoundland

Just Inside Entrance Great Bras doR.

Vessels from P E. I. and Western Ports, via St. Peter's Canal, will save time by loading at New Campbelton. Smooth Inland Navigation. Quick Despatch.

- - J. T. Burchell Manager.

INVERNESS IMPERIAL COAL

INVERNESS RAILWAY and COAL COY.
Inverness, Cape Breton.

Miners and Shippers of INNERNESS (BROAD COVE)

Screened, Run-of-Min 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. 18, Taking effect at 1 a.m

Read Down		STATIONS.		WESTBOUND Read Up			
L 11 10 8 11 16 A 11 35	L 3 55 8 4 00 A 4 13 L 4 18 F 4 30 8 4 43 F 4 55 F 5 10 F 5 23 A 5 38 F 6 53 F 6 53 F 6 53 F 6 53	P. TUPPER JUNCTION PORTHAWKESHERY PORT HASTINGS TROY. CREIGNISH CATHERINE'S POND PORT HOOD GLENCO'R MABOU GLENDYRE BLACK RIVER STRATHLORNE INVERNESS	ASLAFSFFFLAFSFFSL	10 58 10 53 10 40 10 30 10 30 10 08 9 53 9 23 9 08 8 45 8 15 8 06 7 56 7 20 8 m.		3,35 3 27 3 10	

Trains make close connections at Pt. Tupper Jct. with I. C. R. passenger trains, excepting the Maritime Express.

THE PORT HOOD COAL COMPANY

Miners of

SCREENED STEAM STOVE SLACK COAL,

Mines and Shipping Pier, Port Hood; C. B.

Especial care is taken in preparing our coal for Domestic Uses. For Stoves, Grates and Ranges, it has no superior in Cape Breton or Nova Scotia.

For prices f. o. b. at Port Hood and delivered at any point including all stations in the Intercolonial or Dominion Atlantic Railways apply to

THE PORT HOOD COAL COMPANY, LIMITED

ADVERTISE IN THE MINING RECORD.

DOMINION BRIDGE CO., LTD., MONTREAL, P. Q. RRIDGES TURNTABLES, ROOF TRUSSES STEEL BUILDINGS

BEAMS, CHANNELS, ANGLES, PLATES, ETC., IN STOCK



BABCOCK AND WILCOX PATENT WATER TUBE BOILER WITH SUPERHEATER.

BABCOCK & WILCOX LTD.

PATENT

SUPERHEATERS

Over 1,250,000 H. P. now in use.

Can be adapted to existing plants and to all types of boilers, effecting great economy in fuel consumption. Write for our Circular giving detailed description.

HEAD OFFICE FOR CANADA

Il Place d'Armes,

MONTREAL

BRANCH:-114 KING ST, WEST, TORONTO.

We Have in Stock

and offer at lowest price
-the following-

Asbestos Cement, Blacksmith Bellows, Carriage Bolts, Crow Bars, Coke Forks, Rail Benders, Jack Screws, etc. etc

These are only a few of the many supplies we have on hand. Write for quotations

AUSTEN BROTHERS,

Halifax, N. S.

George Patterson,

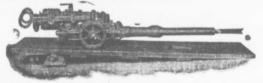
Barrister, Solicitor, Etc. New Glasgow, N. S.

JERSEY - LILY - FLOUR.

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.

INC MACHINERY COAL



"G G" HARRISON IMPROVED COAL CUTTER.

AIR COMPRESSORS -of all Descriptions-

MANUFACTURED BY Canadian Rand Drill Cov Works, Sherbrooke Que. Halifax Office, 116 Hollis St.

G. L. Burritt, Agent.

The Stirling Consolidated Boiler Company,

Successors to the plants and Water Tube Boiler business of The Stirling Company, Barberton, Ohio, and The Aultman & Taylor Machinery Coy., Mansfield, Ohio.

Manufacturers of

Stirling A.&T. Horizontal and Cahall Vertical Water Tube Boilers. Chain Grate Stokers and Superheaters.

WORKS: Barberton, Ohio; Mansfield, Ohio. GENERAL OFFICES:..... Trinity Building, III Broadway, New York,

RIBBER BELTING.

Unequalled for DURABILITY and POWER TRANSMITTING Qualities.

"Monarch," "Red-Strip" and "Lion" Brands, for Transmitting, Conveying and Elevating.

"REDSTONE SHEET PA

For Highest Pressures with Steam, Hot or Cold Water and Air

The most durable and satisfactory Packing on the Market. Suction Hose, Steam Hose, Air Drill and Pneumatic Tool Hose.

-MANUFACTURED BY-

Che Gutta Percha & Rubber Mfg. Co., of Coronto, Limited.

Branches at Montreal, Winnipeg and Vancouver.

Head offices, 47 Yonge Street, Toronto

Acadia Coal

STELLARTON, NOVA SCOTIA.

Miners and Shippers of the

CELEBRATED

Un xcelled for Steam, Domestic and General Purposes. DELIVERED BY RAIL OR WATER.

SHIPPING PORT: PICTOU LANDING.

Quotations Furnished Promptly on Application.

MARITIME COAL & RAILWAY CO., Limited,

HIGH GRADE Steam AND Domestic

Unexcelled for General Use.

Shipments to all points reached by the Intercolonial Railway.

Offices and Colliery JAMES BAIRD, Mine Manager.

Chignecto, N. S.

DAVID MITCHELL, General Manager.

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



G.C.ROBB CHIEFENGINEER

HEAD OFFICE TORONTO

WHEN WERE YOUR

.. BOILERS ..

....LAST INSPECTED !....

WRITE TO

G. WIJONES, Agent,

Halifax. N. S

OR TO-

A. BONNYAN,

INSPECTOR

Manherst, N. S

GREENING

WIRE ROPE, "Acme Brand"

Highest Grade of Hoisting Rope made,

Extra Tensile Strength for Heavy Work.

Use Greening's Rope Grease for Lubrication.

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

DRUMMOND COAL.

INTERCOLONIAL COAL MINING CO., Limited,

WESTVILLE, NOVA SCOTIA.

MANUFACTURERS AND MERCHANTS SHOULD ADVERTISE IN THE MARITIME MINING RECORD Rates Moderate.

GOWRIE AND BLOCKHOUSE COLLIERIES.

LIMITED

OF NEWCASTLE ON TYNE.

MINE AND LOADING PIERS, PORT MORIEN, COW BAY

CAPE BRETON, N.S. Miners and Shippers of GOWRIE COAL.

The Reputation of this Coal has Steadily Advanced during the past 40 years and the Output of the new

Especially designed Piers for the rapid delivery of coal into Vessels by Roe and Bedlington's Patents.

OFFICES:-Canada, Port Morien, Cape Breton, Nova Scotia. England, Newcastle on Tyne.

The JOHN McDougall Caledonian Iron Works Co., Ltd.

Montreal Que.

BOILERS: All Sizes and all Pressures.



McCormick Water Wheels, built for Port Arthur, Ontario, Water Works. Combined

capacity 1440 gallons per minute against 350

Two Worthington 3 stage Turbines and

Worthington Pumps for Water Works and Mines.

Water Whe

Doble Water Wheels for high heads.

Mill Machinery

Etc. Ftc.

CUMBERLAND

RAILWAY AND

OPERATING THREE THICK SEAMS NOS 1, 2 AND 3.

-Miners and Shippers of the Well Known-

FRESH MI SPRINGHILL COAL

... ANALYSIS ... NO 2 NO 3 Moisture.....2.02 % 2.71% Volatile combustible matter 18.94% 28.41 % 64.69 % Fixed Carbon. 75.29 % 67.47 % Ash..... 3.75 % 3.19 % 4.19 % 100.00 100.00 100.00 Sulphur..... 1.15 % 58% .79 %

BEST COAL FOR

LOCOMOTIVE USE.

Delivered By Rail or Water

BEST COAL FOR GENERAL STEAM PURPOSE IN Lots To Suit Purchasers.

BEST_COAL FOR

SPRINGHILL

N. S.

Head Office-

MONTREAL

Mined in the Province.

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 HYDROGENOXYGEN	 80 18	per. cent.	77 51 5 22	AS COAL Per. cent
OXYGEN	 . 7 34	** **	6 72	1.4
NITROGEN	 1 16	11 11	1 27	44 44
ASH	 . 0 56	** **	3 07	11 11
ASHWATER	 . 2 30	** **	4 10	16 16
WATER	 . 3 35	44 44	2 11	** **
wer of Steam C	 100 00		100 00	- 11 H

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 of the Company.

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

DOMINION COAL COMPANY, LIMITED, DOMINION COAL COMPANY, LIMITED, DOMINION COAL COMPANY, LIMITED,

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

R. P. and W. F. Starr, St. John, N. B.
Harvey & Co., St. Johns, Newfoundland.
Hull Blyth & Co., 4 Fenchurch Avenue, London, E. C.

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

G. H. DUGGAN,

2nd. Vice President