Cumberland.

Pictou.

Cape Breton. \* Inverness

New Series Vol. 10 No. 23

JUNE 10th, 1908

STELLARTON, N. S

# MARITIME MINING

ISSUED ON SECOND AND FOURTH WEDNESDAY MONTHLY.

The organ of the rapidly expanding Coal Trade of the Maritime Provinces.

It covers the entire field, and that adequately.

There is no better medium in the Dominion for "Supply' men, whether they be makers of Fans, Pumps, Engines, Boilers, Wire Ropes, or, in short, of any kind of Mining Machinery needed for the extraction and preparation of minerals, or if they be producers or agents for the numerous articles that enter into consumption at the collieries.

The Record is always consulted on all subjects, and its advertising columns are carefully scanned by Directors, Managers, and Purchasing agents.

### **Advertising Rates are Moderate**

AND FORWARDED ON APPLICATION.

Every Coal Company of any standing is a patron of The Record. のあるであたりのののはあるのからいのでのある

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

Telegraphic Address, Latch, Haymille.

# LATCH & BATCHELOR, Ltd.

AMALGAMATED WITH

WEBSTER & HORSFALL,

(ESTABLISHED 1730.)

Works: HAYMILLS, BIRMINGHAM, ENGLAND. AGENT: H. M. WYLDE, POBOX, 529 HALIFAX N. S.

Patentees and Manufacturers of

# Locked Coil and Flattened Strand WIRE ROPES.

Manufacturers of all Kinds of WIRE ROPES for

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 FlattenedStrand, (non spinning)

DRAWERS OF All Sections of HIGH CLASS'STEEL=WIRE.

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

# ACADIA POWDER CO., LIO.

### DYNAMITE

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

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

-MANUFACTURERS AGENTS FOR-

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

Telephone 251. P. O. Box, 520 **GRANVILLE ST., HALIFAX, N. S.** 

# ..J. W. CUMMING..

COAL DRILLS and all High Grade Miners Tools,

MINE CARS AND HITCHINGS, LIGHT AND HEAVY FORGINGS.

P. O. Box 50, - - New Glasgow, N. s.

· 中央の大学の大学の大学の大学の大学の大学をあったから、

## Miners Wanted TO CHEW

Bright 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

Genuine Garlock Packings FOR ALL PURPOSES.

# Pipe and Boiler Coverings, **ENGINEERS SUPPLIES.**

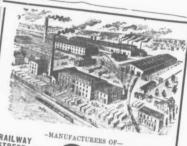
"Tauril" High Pressure Jointing the Best Sheet Packing yet Produced.

# HAMILTON, ONTARIO.

Used by Oolileries in Lancashire Staffordshire

XTERRA COLLIERY LAMP OIL.
For Marsaul, MU-sele Deflector or Closed Lamp

E. WOLASTON, Inter St MANCHESTER Sole Representatives for Canada, Austen Bnos.,



RAILWAY STREET and MINING

CAR WHEELS

FORGINGS & Fittings for Stores, Schools, &c

Large Stocks of Foreign and Domestic Lumber on Sale. A SPEIALTY

Rhodes, Curry & co., Ltd.

BUILDING MATERIALS

ROBBIE STREET, HALIFAX, N. S.

AMHERST, N. S

[On and after SUNDAY, FEB, 2 1908 trains un daily, Sunday excepted,) as follows:— -TRAINS LEAVE STELLARTON-

HAINS I FAME TO	
NO STELLAND	
No 144 Mixed for Hopewell - 5 AA	
No 79 Mixed a for Hopewell	
78 Mi. of for Trenton	
mixed for Honorests	
21 Mixed for Walifax, and St. L	
62 Mixed to Pictou Landing John 6.56	
55 Mixed for Motoru. 7.40	
### Allect for Pictou L. and St. John ### Allect for Pictou L. and St. John ### Allect for Pictou ### Allect for Pictou ### Allect for Multrave 7.40 ### Allect for Multrave 7.45 ### Allect for Pictou 8.39 ### Allect for Pictou ### Allect for	
Express for Sud-	
28 Mixed for Bydn y 7.45	
28 Mixed for Pictou 8.39 28 Mixed for Pictou 11.10 139 Mixed for Turo 11.10 139 Mixed for Turo 11.15 20 Express for we Glasgow 13.50 404 Mixed for Hallax and 4.13 13 65	
139 Mixed for Truro 11.10	
140 Mixed for Halifax and M	
60 Mixed for Train   1.10	
181 Mixed for Pictou Montreal 15.25	
2: Mixed for Pictou Landing 15.30	
15.30   25.0	
66 Express for New Glasgow 18.10	
66 Express for Di Glasgow 18.10	
16.48   16.49   16.48   17 Express for New Glasgow   18.10   19.50	
21.50	
21.65	
-TRAINS	

### -TRAINS ARRIVE AT STELLARTON

79 Mixed from Hoperal	
THIVE AT STELL	
79 Mixed to STELLARTO	
78 Mis and From Hopewall	1.6
at a sed from Trents	
of Express from the control of the c	
79 Mixed from Hopewell 78 Mixed from Trenton 61 Express from Pictou	. 6.30
75 Mixed from Hopewell 76 Mixed from Trenton 61 Express from Picton 18 Express from New Glasson 22 Mixed	6.55
6i Express from Picton 18 Express from Pictou 21 Mixed from Hopewell 25 Mixed from Hopewell	. 7.30
21 Mixed from New Glasgow 55 Mixed from Trupo	. 7.30
55 Mixed from Hopewell 28 Mixed from New Gl.	7.35
28 Mixed from Truro 28 Mixed from New Glasgow. 27 Mixed from Pictor 66 Mixed from Mulgrave	7.35
anixed from Piotestagow.	8.00
56 Mixed from Pictou  56 Mixed from Mulgrave  19 Express from Halifay	8.00
19 Express from Mulgrave 139 Mixed from Halifax and St John 20 Express from Sydney 22 Mixed	10,55
139 Mixed from Halifax and St John 20 Express from Sect.	10 53
and St John	10 00
20 Express from Sydney.	13.55
22 Mixed from Pictou Landing	11.00
77 Mixed from Pictou Landing	15.15
er alixed from Horse Landing	15.20
25 Aixed from Fictou Landing	10.20
66 Express tom Pleton	18:16
17 E Pross from New CIL	18.45
Express from St. villagow	10.00
66 Express from New Glasgow	19,34
17 Express from New Glasgow 17 Express from St John and Halifax trains are run by	21.60
scalin are run ber	91 44

all trains are run by Atlantic Standard time Twenty for Oclock is missigns. Monoton, N. H. Peh. 1st. 1968. On 19 and 20 Dining and Sleeping Cars between Halifax and Mulgrave, buffet sleeper Foint Tupper to Svenoy.

### CANADIAN ASBESTOS CO., MONTREAL.

We carry the Largest Stock in Canada of all kinds of Asbestos Goods,

Such as Asbestos Cement for Covering Boilers, Steam Pipe Covering, Asbestos Roofing, Asbestos Packings, Paper and Millboards, Asbestos Building Lumber and Roofing Shingles, "Asbestine" Fireproof Cold Water Paint, Engineers' and Miners' supplies, Cotton Waste, Oakum, Flax Packing, Lace Leather, etc., etc. Write for Catalogue.

-Try Our "Gripoly" Solid Woven Belting.-

### **MONTREAL STEEL WORKS, Limited.**

Steel Castings, Forgings, Springs, Frogs, Crossings, Interlocking Plants

We Make a Specialty of

yunese sieei tusiinga mining purposes.

Point St. Charles.

Montreal Canada

ESTABLISHED 1863.

# Phillips Mine & Mill Supply Co.

PITTSBURGH, PA.

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

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.

MANUFACTURERS OF

Coal and Coke Works Equipment.

### 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.

WM. STAIRS, SON & MORROW, LIMITED,

HALIFAX, N S General Hardware, Metals Plumbing and Mining Supplies. H

HATTEAY N G

# NOVA SCOTIA STEEL & COAL COMPANY.

LIMITED .-

MAN UFACTURERS OF



### STEEL



MERCHANT BARS.

SHEETS AND PLATES -- From 12 gauge up to 1 inch thick. Any Widths up to 50 inches

HEAVY FORGINGS.

HAMMERED SHAFTS

... NOTHING REQUIRED IN CANADA TOO LARGE 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.

The Best Fouse Coal.

The Best Steam Coal

QUICK 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 Clasgow, N.S.

### T. McAvity & Sons,

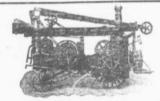
### Iron Pipe Fittings



Screwed and Flanged, suitable for Pipe from 1 to 12 in.



T. McAvity & Sons, Saint John, N. B.



### The KEYSTONE

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

It can be need in connection with any goal "chura" drill, our operates best on the long strove. KEYSTONE, thus making the cheapest and quickest method of ording to be found,

In operation a hole is sunk to the coal with the or-linary Rock Bit. The Bit and Stem are then removed and the Coring Athenment put on in their place. It takes a 4 ft. core out of the Softest as well as the Hardiest part or the velo. A valids all deay and extenses of 'rods' water wan, diamonds, shot, and heavy operations

#### 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.

.....

### Mining & Mill Supplies.

Valves. Fittings. Packing.

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

RIVETS

Steam Goods of every-Description.

## Iron Pipe for

Mining Purposes. -Catalogues and Prices on Application.

MONTREAL, QUE.

-Established 1852-



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

tields of Pennsylvania. When asked what impressed him most. he

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

An in heation at least that we know how

to handle the acid water problem

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

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

Jeanesville Iron Works Co., Hazleton, Pa.



# NOVA SCOTIA. Mines of Gold, Silver, Coal,

Iron, Copper, Lead, Etc.

MERSON MERSON MERSON

Titles direct from the Crown-

At Moderate Royalties.

Licenses are issued for prospecting for Gold and Silver for a term of twelve months. They Comprise areas 150 by 250 feet, and any number can be obtained, at a cost of 50 cents per area. cents per area. Leases of any number of areas can be obtained, at a cost of \$2,00 per area, for a term of 40 years; subject to an annual rental of 50 cents per area.

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

# Minerals other than-Gold and Silver.

-LICENSES TO SEARCH-

over five square miles for eighteen months, over five square fines for eighteen filentials, 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

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

on coat is 10 cents per long ton, and on coate minerals in proportion

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

FOR INFORMATION APPLY TO

# CHRISTOPHER CHISHOLM

Commissioner of Public Works and Mines, Halifax N. S.

## MINUDIE COAL COMPANY, L't'd.

Operating MINUDIE MINES

in the Celebrated CUMBERLAND COAL FIELD

Producers of SCREENED COAL, 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. HIBBALD, River Hebert, N. S. GEO. H. Bisser Sec'y Treas Head Office, 212 St. James Street, Montreal.



The curved steel vanes discharge the air in a true radical direction and the conical scoops prevent the air gushing from the inlet.

The JEFFREY MFG. CO.,

New York, Chicago, Boston; Denver, St. Louis, Charleston, Pittsburgh, Knoxville, Montreai. JEFFREY

CENTRIFUCAL FAM

CENTRIFUGAL FAN

Larger volumes at low speeds and
Larger capacities against high gauges
than any other fau made.

A steel casing extending to the ground all eliminates the large amount of masonry usually required with fan installations

Complete Mine and Tipple Equipments

Electric Locomotives, Drills, Coal Cutters, Hoists, Pumps, Elevators, Conveyors, Screens, Crushers, Car-hauls, Picking Tables, Coal Washeries, etc.

### DOMINION BRIDGE CO., LTD., MONTREAL, TURNTABLES, ROOF TRUSSES STEEL BUILDINGS

ELECTRIC & HAND POWER CRANES Structural METAL WORK of all kinds

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

# WALKER BROTHERS (WIGAN,) LIMITED

Wigan, England.

# Air Compressors, Ventilating Fans, Winding Engines.

Largest Air Compressors in Canada are of

Walker Brothers (Wigan) Limited, Manufacture.

The following companies have installled WALKER BROTHERS Air Compressors, in capacity Ranging up to 6300 cubic feet of free air per minute, all of which are provided with WALKER PATENT AIR VALVES.

DOMINION COAL COMPANY, Ltd. DOMINION IRON & STEEL CO., Ltd.

NOVA SCOTIA STEEL & COAL CO., Ltd INTERCOLONIAL COAL MINING CO., Ltd. CAPE BRETON COAL IRON & RY. CO. Ltd.

SOLE CANADIAN

SOLE CANADIAN REPRESENTATIVES PEACOCK BROTHERS CANADA LIFE B'L'G MONTREAL, P. Q.

### MINE VENTILATING

Under direct special arrangements with the Inventor, we are building the "Capell" Patent Mine Ventilating Fan, for the Canadian Coal Mines in the United States and largely used in the Coal Mines in the United States and forgary used in the coal sames in the United States and Canada, as well as in Great Britain and the Continent, probably exceeding in number any other high class fan

We invite inquiries, which will have our closest attention.

I. Matheson & Company, Limited, ENGINEERS.

New Glasgow, " " Nova Scotia.



#### June 10th, 1908, New Series Vol. 10, No. 23. Stellarton, N. S.,

COMPILED QUESTIONS AND ANSWERS

Q-How is the comparative purity of coal seams accounted for ?

A-Of the many remarkable things in connection with coal-beds, not the least is the state of purity in which coal is found. On the floor of each forest there would be many a streamlet or even small river which would wend its way to meet the not very distant sea, and it is surprising at first that so little sediment found its way into the coal itselt. But this was cleverly explained by Sir Chas. Lyell, who noticed, on one of his visits to America, that the water of the Mississippi, around the rank growths of cypress which form the 'cypress swamps' at the mouths of that river, was highly charged with sediment, but that, having passed beyond the close undergrowth of the swamps, it issued in almost a pure state, the sediment which it bore having been filtered out of it and precipitated. This very satisfactorily explained how in some places carbonaceous matter might be deposited in a perfectly pure state, whilst in others, where sandstone or shale was actually forming, it might be impregnated by coaly matter in such a way as to cause it to be stained black. In times of flood sediment would be brought in, even where pure coal had been forming, and then we should have a thin "parting" of sandstone or shale, which was formed when the flood was at its height. Or a slight sinking of the land might occur, in which case also the formation of coal would temporarily cease, and a parting of foreign matter would be formed, which, on further upheaval taking place, would again give way to another forest growth. Some of the thicker beds have been found presenting this aspect, such as the South Staffordshire ten-yard coal, which in some parts splits up into a dozen or so smaller beds, with partings of sediment between them.

Q .- What is an explosive. Name some of them and their characteristics.

of which results in the sudden expansion of its components into a volume of heated gases many times exceeding its original bulk.

The strength of an explosive depends upon the volume of g: ses I ! erated, the rate at which decomposition proceeds, and the temperature of ignition. The gases liberated by the ignition of gunpowner, for instance, amount to a out 2000 times the original volume of the powder used.

Gunpowder is largely used. It is chesp, comparitsoft rocks, and less dangerous than some of the nitrocompounds. On the other hand, it is dangerous in the with it, and it does not explode at ordinary temperature

presence of fire-damp and coal-dust, and its use is now prohibited in some districts by the order of the Home Secretary.

Gunpowder, if exploded in large quantities, is also dangerous to life, owing to the large per-centage of carbon monoxide it gives off; and no explosives which give rise to this gas ought to be used for blasting in mines, because of the risk of injury to health, and also because even small traces of carbon monoxide have been proved to render mixtures of coal-dust and air highly inflammable, a point frequently overlooked in experiments with explosives.

The approximate composition of ordinary gunpowder is : Saltpetre, 75 percent.; carbon, 15 percent.; sulphur, 10 percent,

Ordinary blasting-powder explodes at a temperature of 600° F.

Gunpowder is now largely used in the form of compressed cartridges or cylinders made up in various sizes to suit the different diameters of the shot holes; by using it in this way its safety and efficiency are increased. For blasting down coal, no other explosive gives such good results, while it is also cheap in price compared with other explosives.

Nitro Compounds,-In this class are included all those 'high' explosives, which are so useful in mining, particularly in blasting hard rock. Nitro-glycerine is bright yellow, oily liquid, having a specific gravity of 1'16. It freezes at 40 deg. F., and explodes with great violeuce at 360 deg. F., or when subjected to a sudden It is less sensitive to tlows and detonation when frozen than when in the figuid state. Its u e in the pure state is forbidden in Britain.

Blasting Gelatine-This is one of the most powerful explosives used in mining. Its manufacture is both difficult and dangerous, but when once made it is one of the satest of explosives. It contains 93 per cent. to 95 per cent. of nitro glycerine, and 5 per cent to 7 per cent. of nitro-cotton.

It is less rapid in detonation than dynamite, and is quite insoluble in water, in which it may be kept wit out detorioration. In its plastic state it is less sensuive A -An explosive is a substance the decomposition to shocks or blows than dynamite, but when trozen it

Blasting gelatine is about three times more efficient than ordinary dynamite, and about five times stronger than gunpowder.

Dynamite.—This explosive is manufactured by impregnating Kieselguhr, a spongy, infusorial earth obtained from Germany, with nitro-glycerine.

Its composition is: Nitro glycerine, 75 per cent.; K'e elguhr, 25 per cent.

When in a proper condition dynamite is plastic, may ively slow in action, and therefore suitable for coal and be safely handled, and is very convenient for use as an explosive. Irregularly shaped holes are easily charged

either by spark or flame, but requires detonation. When duces marked differences in the positions of the strata temperature falls below 40 deg, F, they are not in a safe condition, owing to their increased sensitiveness to When in a frozen condition they should only be thawed by the warming-pans provided by the makers,

Relative Efficiency of Gunpowder and Dynamite. For equal Weights. Gunpowder For equal Bulks. No. 1 dynamite = 3.75 Gunpowder

No. 2 dynamite = 2.00 No. 1 dynamite = 6.00 The use of dynamite results in economy of labor and tamping, loose sand being sufficient. It can be used in watery rock, and gives off but little smoke.

Other much used explosives are Carbonite, Gelignite, Ammonite, and Roburite (No. 3)

The latter is three times as powerful as an equal bulk of gunpowder. It is said to be a flameless explosand although fire damp was known to be present in some cases, it was not ignited, although it flashed at

In all mines which are fiery or dusty, and where it is absolutely necessary to have some means of preventing flame issuing from a shot on explosion, one or other of the numerous safety explosives must be used

How did the stupendious earth's movement come about?

A-We can only judge that, in some way or other, heat, or the withdrawal of heat, has been the prime motive power. We can perceive, from what is now going on in some parts of the earth, how great an influence it had in shiping the land, for volcances owe their activity to the hidden heat in the earth's interior, and afford us an idea of the power of which heat is capable in the matter of building up and destroying continents. less certain is it that heat is the prime factor in those more gradual vertical movements of the land to which we have referred elsewhere, but in regard to the exact manner in which it acts we are very much in the dark. Everybody knows that, in the majority of instances, material substances of all kinds expand under the influence of heat, and contract when the source of heat is withdrawn. It we can imagine movements in the quantity of heat contained in the solid crust, the exquantity of near continued in the sonic crust, the extrag was scarcely less important, and the professor planation is easy, for if a certain tract of land receive spake of the handicap from a utilitarian standpoint of panation is easy, for it a certain tract of land receive of the manufactor from a damarian support, of an accession of heat beneath it, it is certain that the a man who mastered a lot of theory without learning an accession of heat beneath it, it is certain that the a man who mastered a lot of theory without learning principal effect will be an elevation of the land, conseq. how to use it. This was unfortunately the defect of a principal effect will be an elevation of the land, consequence to use it. This was unfortunately the defect of a user on the expansion of its materials, with a subsequence good deal of so called technical training. The best uent on the expansion of its materials, with a subsequence grounded of so cancer treatment training. The best uent depression when the heat beneath the tract in results in the field of industrial education were to be uent depression when the neat beneath the tract in itsorts in the ment of moustrial coordination were to be question becomes gradually lessened. Should the heat obtained by a systematic combination of theory and be retained for a long period, the strata would be so practice, uplified as to form an anticlinal, or saudle back, and then, should subsequent denudation take place, more ancient strata would be brought to view. It was thus ancient strata would be brought to view. It was thus become and made members of the British in the instance of the tract bounded by the North and House of Commons are protesting vigorously against in the instance of the tract bounded by the North and Proposed visit of the King to the Czar One writ-Sound Downs, which were tormerly entirely covered by the proposed visit of the King to the Czar. One writ-chall, and in the instance of the uprising of the car, or says. The head of a state which prides itself on its

of the earth, and from observations made in connection with the closing of some volcanoes, and the opening up of fresh earth-vents, we have gone a long way towards establishing the probability that there are even now snawed by the warming-pans provided by the makers, stored in the earth's ctust, whose enerts are appreciably and not heated in tin cans over fires or carried about in communicated to the outside of the thin rind of solid slow and ponderous movements taking place in the heat

### IN LIEU OF APPRENTICESHIP.

Prof. Alexandre Marcheras, formerly director of the School of Practical Industry of Firminy, France, who has been chosen to manage the two provincial gov. ernment technical schools in Montreal and Quebec, has outlined, before the Chambre de Commerce, the course of studies which he intends to organize. The method of training would be along the lines of theory combinor gunpowaer. It is said to be a nameless express training was easemated to be intermediate between the A large number of tests have been made with it; higher studies in applied science and primary educate. ed with practice, such as edopted in France. As this ion, greater stress would be laid on the practical side The pupils would be made to apply by practical work in the shops the principles underlying their respective trades. In this way the schoels would endeavor to develope skilled machinists, boilermakers, carpenters, draughtsmen, blacksmiths, electricians, moulders, patternmakers, painters, wood carvers, joiners, etc.,

The course would be spread over over three years, the pupils being admitted only after the completion of their preliminary education at the primary or public

On the other hand the course was calculated to afford an opportunity for practical, but unskilled, artisans to acquire the theoretical knowledge necessary to the proper exercise of their trade. For this purpose, evening classes would in all likelihood have to be or-

Prof. Marcheras dwelt at length on the advantage which the skilled arrisan bad over the nan without the theoretical knowledge. The latter might have many good ideas, but he was unable to put them into practice. His calculations depended largely on guess whereas in the case of the skilled artisan he went about his trade intelligently, knowing its underlying principles. It thus made his advancement more certain and rapid. The p actical side of industrial train-

chairs and in the instance of the uprising of the cars of says, the man in a solic which prime reservor has beinfords fine-stone between the coardicles of Lanca, constitutional freedom hab nobbing with a bloodstainte, Manordanire, and Deroyanire.

How the heat-waves act, and the laws, if any, ly cynicism and brings upon his people national one about the Russian poople one one How the hest-waves act, and the laws, if any, by cynicism and brings upon his people national to the concludes: To the Russian people our are unable to judge. From the properties which heat right hand of fellowship. To the Russian Czar, our THE JEFFREY SHORTWALL COAL CUTTER.

The economy and speed with which coal is mined by longwall machines has given rise to a very large demand for an efficient machine operating on the longwall plan for room and pillar work. Special interest therefore attaches to an announcement that the Jeffrey Manufacturing Company has added to its line of electric coal cutters a new room and pillar machine known as the Jeffrey 26 B. Shortwall coal cutter.

The difference between this and the well known breast machine built by that company, is largely in the method of cutting. The new type cuts across the face of the coal, starting at one side of the room and not stopping until it finishes

the cut at the other side.

A 1/2" steel feed cable wound upon a power driven drum at the front end of the machine pulls it across the face of the coal at a speed dependent upon, and suited to, the hardness of the cutting and the nature of the coal or clay in which the This drum when desired can be cutting is done. disengaged by means of a suitable clutch, so that the machine in finishing its cut at the left hand rib may be angled for the purpose of maintaining a uniform width of room. Another cable, having no connection whatever with the power, is arranged to act as a guide to hold the machine to ting efficiency.

Suitable sheave wheels are provided at convenient points on the machine to guide the feed being sacrificed to obtain the reduced height. cable so that it can be led off in any direction, thereby enabling the machine to be loaded, unleaded, moved about and pulled out from under

machine runners.

The gearing is arranged so that the feed drum may be operated at a sufficiently high speed to inpregnated with insulating compound and enclosmove the machine quickly about the working ed in oil and moisture proof covers, place To take care of the heaviest service, an exceptionally powerful compound wound motor is

The operation of the machine may be briefly described as follows :-

It is brought into the room on a truck moved by its own power or hauled by a mule, depending on whether or not a self-propelling truck is used. A pipe jack is placed at the face of the coal at the right hand rib and the feed cable attached. The motor is then started and the machine moved to the face of the coal. A simple guiding device, consisting of a piece of tee rail and one jack, is then set up on the left hand side of the machine and the sumping cut started, the feed cable pulling the cutting frame in under the coal and the guiding device serving to hold the machine in line. When the sumping cut is completed, a steel anchor hook is secured by a wedge in the left hand rib near the face, to which are hooked one end of both the guide and feed cables which lead across the face of the coal, The cable is then attached to a jack set up at the right hand rib in line with the rear drums, and the machine started across the room. In operation, the feed cable pulls the machine across the coal face, and the guide cable keeps it at the proper angle to the face of the coal,

A special flexible brand of wire with elliptic to the other side

stranding is used for the feed and guide cables, eliminating any tendency to kink or curl up when the tension is released, and materially increasing the wearing surfaces of the cable. The elasticity of the cables equalizes the shocks and jars on the machine and gives the motor an even, steady load.

When the machine reaches the left hand rib, the pipe jack is moved to a position near the truck, the feed cable attached, the machine pulled out from under the coal and over to the truck where it is loaded by its own power and is ready to move to the next working place.

Among the advantages claimed by the Jeffrey Manufacturing Co. for this, over any other make

ot side cutting machine, are :-

1st.—Its construction is simpler and stronger throughout, and the power of its motor equipment greater, qualifying it to perform longer and harder service and greatly reducing the danger of breakdown and cost of up-keep. 2nd.-It cuts faster, and less time is consumed preliminary to starting up and in moving the machine after the cut is finished. 3rd.—It occupies less space and permits setting the props nearer to the face of the coal. 4th.-It consumes substantially less power per cubic inch of coal cut 5th.-It is handled by its own power more rapidly and with less exertion on the part of the machine runners,

In addition to the 26 B machine, the Jeffrey its work at the proper angle for its greatest cut- Mfg. Co. also builds a side cutter for thin vein coal, the construction and operation of which is essentially the same, no advantageous features

Both machines cut directly on the floor of the

The motors furnished with these machines are the coal by its own power, a very desirable feat- of the most modern and improved types. The ure, and one which very strongly appeals to the frames are made of cast steel with laminated pole The armatures are drum wound with pieces. form wound coils. The field coils are series wound The commutator bars are of the best quality of hard drawn copper, and are insulated with mica of the proper hardness to insure even wear and long life.

#### A WONDERFUL CLOCK.

One of the most wonderful clocks ever made is that which is now working at Schenectady. It was made by a watchmaker named J. Steiner, and has never been wound up. It was started some months ago by Steiner giving the pendulum a swing, and will continue to co, says he, until "the magnets lose their magnetism. What is so remarkable about it is that the works consist of only three wheels. The clock itself is in the form of a pendulum, weighing 40th. pendulum rods are made of different kinds of metal to allow compensation in contraction and expansion. is said that the clock is not affected by jar or vibration, and keeps perfect time, the swing of the pendulum being regulated to beat seconds. Whatever may be thought of the principle of the mechanism or of the probability of its continuance in motion, this seems to be the nearest approach to perpetual motion yet dis-

Mr. Thomas Cantley is home again from his trip

### SOCIALISM NOT CHRISTIAN.

The prominence given to the discussion of Socialism in these days makes it desirable that people entertain clear ideas upon the fundamental principles involved Particularly is this the case when Socialism is considered in relation to Christianiny. "It is possible to define Socialism in such a way that it is not only consistent, but identical, with the earthly mission of Christianity," points out the Rsv. Dr. R. F. Horton, of London. In that case we shall have a social organization in which "all men's good is each man's rule"a condition better described, thinks this writer, as "Christian Socialism." Socialism as an economic theory and the Christian religion are thus seen to agree in certain aims, but in the method adopted to realize those aims on "it cannot be said that Christianity has even passed an opinion on the doctrine of State Social-. It is evident that Christianity is looking at a different problem and working on different lines To Socialists the material possessions are all-important; in Christianity they are secon-lary. In Socialism the great thing is to work for the redistribution of wealth. Christianity's reply is, Beware of covetousness. It is not therefore possible to maintain that Christianity adopts the economic method of State

"However attractive Socialism may be as an ideal, it has not yet been shown to be possible. And even if by a stretch of imagnation we grant that it is possible there are grave doubts in the minds of many as to whether it would be desirable. The more you know of the people who call out for Socialism the more you find that they have not a glimmering impression as to what it means. It would make it certain that all should get their food, that all should be fairly clothed and housed, and that all should have the necessary conveniences of life; but it would eliminate personal freedom and check some of the noblest tendencies in our human nature. The individual would have to consent to be merely part of a great machine. would have to surrender the liberty for which men He have struggled for centuries. We have to ask whether a state would be preferable where you got plenty to eat, sufficient clothes, and where you lived comfortably-at the price of liberty. The more I think of it the more thankful I am that, in the ordinary course of things, before State Socialism is established in England [ shall have escaped its tyranny, and shall be in the land of light and liberty forever.

Christians should be as passionately eager to save the people as the Socialist orator and worker. Christians should feel the shame and misery more keenly and sensitively than any other men on earth, because of what Jesus did and does. They should look on the yast mass of the people, those that are dispossest and disinherited, those that are prevented from any honorable progress in life—Coristians should look on these as their people or as their brothers and sixters for which their Lord died. We should not leave it to Socialises to love these man more dearly than we do.

So ialism and Christianity ought to be better actually an actually ought to be better actually an actually ought to be better actually act

work for a reformed society. If Christians were more socialist, Socialists would be more Christian.

### AGED MINERS' HOMES

At the annual meeting of the Northumberland Aged Mine Workers' Homes Association, the Chairman (Mr J. Cairns) said the report was very satisfactory. The progress had been continual since the commencement of the movement. The movement was no longer in its infancy, but had taken a firm root, and continued to extend in every direction. They had something like 200 aged miners and their wives living in comparative ease in the cottages. Many of these people had hitherto been paying exorbitant rents, and it came as a glad surprise to them when they were informed that they had become the recipients of a cottage. The association set out with the object of providing every old man and his wife with a cottage These numbered about 500, to that they had a long way to go yet. The progress of the movement had simply been marvellous, but the governor, assisted by the miners and others, had swept away every obstacle. They were all waiting for the day when they should have the old age pen-ions that existed in the minds of the idealist; but the men of Northumberland were trying to increase the comfort and happiness of their old folk, and he hoped there would be no friction or They ought rather to keep the spirit of generosity and magnanimity in view, and not rest satisfied until they had a home for every aged miner and his wife, so that the last days of their lives might be their sunnest and their best.

'Christ's method of settling strikes' was the subject of a sermon by the Rev. W. D. Reid of Montreal lately. Mr. Reid spoke from Matthew xviii, 15-17, and showed that the method recommended by Christ was first to try conciliation, and if this failed, arbitration, to be enforced by law if necessary. The Lemieux Act of Canada was, he said, a step in the right direction.

I see by Saturday's paper, he remarked 'that the C. P R. representative declares that so far as that corporation is concerned it has withdrawn from the arbitration in the dispute now going on, and that the committee may arrive at what findings it will-they will pay no heed to them. In other words, because this worthy representative cannot get his own way, he will not play the game. Now, what should be done is to arbitrate on the general premises, and let the board decide as to whether or no the east shall join with the west in this dispute, and then when that is settled, go on with the general differences, and arbitrate them, and if the men will not abide by the decision, compel them to do so, and if the C. P. R will not abide by the decisions of the board, they should be compelled to do so, by act of parliament, if necessary. This, then, is Christ's word upon this great question. First, conciliation; second, arbitration; and third, law. Let us apply this principle to all our disputes, and we will soon end the present labor difficulties.

The steel business is said to be the great trade barometer. The mercury must be risin, as it is declared that the steel and iron trades are showing marked signs of revival.

### **AROUND**

The Inverness Railway and Coal Company are adding to their rolling stock. A number of large new hoppany's name.

Up till the end of May the Nova Scotia Steel & Coal Co. had sent little or no coal to the St. Lawrence. bulk of the May shipments went to Point Levis for the I C. R. Some 25,000 tons were shipped there last

A majority of the collieries are this year well supplied with all kinds of labor. This applies more particularly to the mainland and the Dominion Coal Co's collieries. At two or three of the mines there is room for a few more men.

There has been a sensible spring clean up on surface around the Allan Shafts and the appearance of the figures exceed the big outputs for April. The coal beworks has been greatly improved. As in a printing of- ing supplied by the Dominion Coal Company is evidfice so around the collieries. Large quantities of litter ently of excellent quality. gather coming piece meal from goodness knows where.

steamers engaged in the coal and ore business this season, five in the former and six in the latter. steamers in the coal trade will average at least three those in the ore trade.

I'wo important resignations are announced, Mr. C. Fergie has resigned as Superintendent of the Dominion Coal Co's mines, his three years agreement having nearly expired; and Mr. John Moffatt has tendered his signation will have the most direct bearing on the future of the coal trade of C. B. it may be hard to predict.

The Inverness News has the following in reference to mining in that town;

"Some time ago there was considerable trouble from water in the sinking and in No. 6 level, principally on account of the difficulty in keeping the pumps in order and working steadily, the water having a very injurious effect on the pumps and also on the pipe line

This, however, has been son ewhat remedied by the installation of much heavier pumps than formerly used, and in a short time three new ones will have been iner, will not be further worked at present.

The work on the angle slope is nearly completed, only about four hundred remain to be opened. This slope leaves the main slope about four hundred feet down, and strikes No. 6 level 2100 feet from the slope. At the foot of this slope a tunnel is being cut through to strike the thirteen foot seam. The distance is estimated at some eight hundred feet, nearly three hundred and fifty feet of which has been cut. The work is slow, a time, and the work is double shifted."

The Financial Post—as well as the Record is optimistic in the matter of a settlement of the Steelpers have lately passed down the line bearing the com- Coal Jispute We hold, with the Post, to the opinion that the real settlement will be made outside of the House of Lords.

> The Mining Society of Nova Scotia has appointed committees in the various mining localities to draw up a programme in connection with the anticipated visit of the British Engineers. The party will visit all the important mines in the province. Pictou can show important mines in the province. the visitors a big seam, a long slope and mines that have been on fire for over half a century.

In May the Dominion Iron & Steel Co. turned out nearly 22,000 tons pig iron, 5000 tons ingots, 20,043 blooms, 12,316 tons rails and 3,165 tons rods. These

Though the Inverness mine is doing excellently with The Nova Scotia Steel and Coal Co'y, have eleven an output of some 1200 tons a day it is probably unable on account of the heavy flow of water to produce as much as the directors had anticipated, as one of their boats had to seek a charter elsewhere. Many a growing trips a month, whereas a trip a month is fair work for boy has been told that his eys was bigger than-another part of his anatomy, and it is much the same with the heads of coal companies, they can see daily products that somehow fail to make connection.

The new mine Sydney No. 4 of the N. S. & Coal Co. commenced to be a producer on a promising scale The management made no resignation as Gd. Secretary of the P. W. A. Which re-on the first of the month. The management made no signation will have the most direct bearing on the future attempts at an output until everything was in readiness for a good start. The output for the first week of operation was expected to be 400 tons per day, and this ought to be doubled as soon as another machine, or two, It is expected to get about 150 tons a day is installed. from a machine, so a few of these will give a large out-

Coal, too, in Antigonish is no new discovery. Forty years ago the then Inspector of Mines looked for speedy In one year about that time some \$580 development. were paid to the government for rights of search for coal, So far as can be learned from the Mines Report only one stalled, able to pnmp 750, 500, and 300 gallons per hour. of the firms did active work or tried to develop their arstalled, able to pnmp rou, one and one great in New eas. In 1867 or forty-one years ago accessed and five inch, precured in New eas. In 1867 or forty-one years ago accessed plans. York, is also being installed and this will largely remedy and Chisholm who had three square miles made plans.

At the present time the water is out of No. for doing some work. In 1868 the sum of \$682.50 was the trouble. At the present time the water is out of No. for doing some work. In 1868 the sum of \$682,50 was 6 level, and is well down in the sinking, which, however, expended. The expenditure was in connection with a tunnel or drift driven "into the face of a hill for the purpose of cutting the seam at a lower depth, and other the distance being some three thousand feet, of which steps are being taken to place the mine in working or-only about four hundred remain to be opened. This der." In his report for 1869 the Inspector says: "At the Messrs McKinnon and Chisholm's mine in this County the operations have not proceeded much beyond the prospective stage; the presence of some faults near the outcrop of the seam having impeded their progress. A fresh opening howeveo is being made and other steps have been taken to put the mine in a working position. only two cutters and two loaders being able to work at These eteps do not seem to have been successful as we do not hear of further work being done by the lessees.

# MARITIME MINING RECORD.

The MARIFIME MINING RE JORD is published the second anp ourth Wednesday in each month's

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

Advertising rates, which are noticets, may be fluid on application Subscription \$1.00 a year.

Single Copies 5 cents

R. DRUMMOND, PUBLISHER. STELLARTON. N. S.

\*\*\*\*\*\*\*\*\*\*\*\*

# Rubs by Rambler.

Professor Shortt, the Chairman of the Conciliation Board, which sat in Glace Bay a couple of months ago, and who has the reputation of being a clear sighted man with an aptitude for seizing a clear signted man with an approve for seizing details speedily, figured out that through the award of the Board the Dominion Coal Cos. em. ployees were gainers, to the extent of some \$73, proyers were gamers to one extent of some ero, one of the control of the writer that he figured it should less. Let it stand at the less figures man royal alines set the price, and all the other operations. That is a substantial gain. One who ators have to govern themselves accordingly, conclusion that from this sum had to be abstract is nothing in this statement of control. Let it stand at the less figures mas not gone into the question might come to the conclusion that from this sum had to be deducted extra price for powder, and the space of pullars. But the \$70,000 remains to the good of the lars. But the stoom remains to the good with men after these deductions have been made. nery body who knows Dr. Kendall, the mens arbitrator, and his past severe, if not harsh, criticottrator, and his pass suvere, in the latest state is signs of the Dominion Coal Company, will not be ilieve for a moment that he would have acquiesced in any finding which did not do justice to the workmen. Again the price of coal was not increased to all the working to the amount some creased to an the workmen to the amount some writers declare. The vast majority of the men affected were satisfied with the award. It is affected were satisfied with the award. It is therefore a pity that there is any one, not directly interested, ready to scoff at the Board's findings. If only an act is acceptable to some workingmen which all the time and on all occasions ingmen which an the time and on an occasions decides in their favor, the probability is that it will be a very long time before we can look for the cast of the ca

Poor Probus. He did'nt take kindly to my to prove that Nova Scolia has copper ores of commerstrictures on the effusion of Aberdeen in the cial value will turn out successful. and therein the politice out now easy a latter one, in an effort to be sublime, to become redicul-'Aberdeen' went soaring and thinking he one. Abertuen went souring and thunking me was flying too high I merely sought to bring him

any legislation coming from trades unionists. Its no 'go.' As a rule I never take back water. If 'Aberdeen' is a miner—my own idea is that he is an underminer, and works in the Herald build. ing, Halifax—he deserves anything I gave him ing, nannax—ne deserves anytning i gave nim for putting on so many airs and talking so vair-for putting on so many airs and talking so vair-gloriously, through his hat. So long as 'Aber-deen' talks sense he will have no friendlier critic

For the sake of the coal trade it is to be hoped that trade in general will soon have a large rethat trade in general win soon have a large revival. If we have to wait for six months for a revival in general trade the coal trade may feel revival in general trade the coal trade may rect the effects of the present general duliness next season. It is true that all the collieries claim to season. It is true tout in the conteries come to have sold all the coal they can produce this year, but what about deliveries? but what about deliveries? Are the purchasers in a position to take delivery? In many cases they cannot, and may not be able to do so. Many of the smaller consumers have store room for a comparitively small quantity. When business is brisk they can take delivery promptly, at stated orisk they can take derivery promptly, at stated intervals, for a given quantity. At present many of them can only take half the quantity they could take if trade was brisk. It is to be hoped in Montreal and other places to which you could in Montreal and other places to which you could be in Montreal and other places to which our coal is

Should any of the papers again refer to cheap coal in Germany due to the lact—as alleged—that the German Royal Mines set the price, and all the other operconcension that from this sum had to be deducted as nothing in this statement of control. The vester the extra price charged the workmen for coal, the phalian Syndicate exports coal, when it has an over the phalian order to be an over the phalian of the loss points for sold in order to be an over the phalian of the phalian to Communicate the phalian of the phalian to Communicate the phalian to th phanin Syndicate exports coal, when it has an over samply in order to keep up the price to German buyers, and when coal is scarce the Syndicate knows onlyers, and when coal is scarce the cymicate who we to tay it on. Cheap coal in Germany, and dear coal in Nova Scotia! Indeed? Why last year if one coarm yova Scount thuccas, buy not year in one of the Westphalian Syndicate's steamers had called at International Pier, or the wharf of the Nova Scotia Steel & Coal Co., coal would have been supplied at \$3 per ton; whereas if a boat of either of the two home per ton, whereas it a want or entirer of the two nomes companies had called at Rotterdam for bunker it could not have got Westphalian Syndicate coal under \$4.72.

We are promised a big boom in mining in Antigonish County from this out is County from this out the Lake Copper Co. has been organized and the work of development has began. over organized and the work of development has began This is no new discovery. Long long ago copper ore was mined in the locality and tests of the ore made with the a very tong time before we can look for decided satisfactory but perhaps owing to the then small settlements of differences by conciliation or arbition and for copper the inducements, were not strong expenditures. deemed satisfactory but perhaps owing to the then small ocidant for copper one analysis and a serie marsing with nough to continue expenditures. As copper is now in

was flying too high I merely sought to bring him down from things ethereal to things mundane, great surrender, that the U. M. W. has done and Poor Probus' Chinks he'll frighten a fellow by is doing great things for its members. For every is alleged to have said that he would go against secured two for its members, the P. W. A. has It was the P. W. And they dare ask the miners of Nova Scotia to allow themselves to be absorbed by the U. M. W. and they dare tell us, as a reason for this great surrender, that the U. M. W. has done and

A. that, alive to the true well being of its mem- with him. bers, secured all the amendments and additions U. M. W. doing? Its chief work was the collection of fees and dues, Read the following extract ors for Pennsylvania, and then say it is a desirable thing to become connected with a society so inefficient, or so careless as not to have laws on the statute books providing for the safe conduct We have in Nova Scotia already all the things the Inspectors desire for the soft coal mines of N. S. The Inspectors recommended :-"That the main developments of the mine be conducted on the four-entry system and the ventilation be controlled by overcasts instead of numerous doors; that a different type of coal-cutting machines be substituted for the chain machines; that the best flameless explosives be used for all blasting purposes; that competent shot-firers be selected and employed to prepare, charge and fire the shots after the workmen are out of the mine. These shot firers should have the authority to reject the charging and firing of holes which, in their judgement, would be unsafe to fire, and all stemming should be with clay or other incombustible material; that the mine be worked exclusively with locked safety lamps. That a water system be installed for the purpose of thoroughly wetting and laying the dust, and all accumulations of dust be loaded and sent out of the mine at least once a week, and said dust to be thoroughly watered before being loaded; a sufficient number of fire bosses should be employed to make careful examinations of the mine without undue haste; that the superintendent shall see that the mine foreman devotes the whole of his time to such duties in the mine as prescribed by the Act of May 15th., 1893, relating to bituminous coal mines, and he shall maintain rigid discipline at all times. We are of the opinion that had the well known safeguards, such as ample and effi- place. Thank goodness there are many who sabcient ventilation, the use of safety explosives, the discipline been employed in the Darr Mine, this calamity would not have occurred." The inspectors conclude by saying that these recommendations apply not alone to the Darr Mine, but to all are gaseous and dusty.

I am again indebted to the Herald and its correspondents for further texts. One of the Herald's contributors seems a little surprised that I read the Labor Herald, Would he deny me so pleasing a pastime. I love a little light reading now and again and if there is humour in it I love it the more. Some of the Labor Herald's contributors are so funny that life would be dull without remnant who play the game fair, who will domin-There's Probus for instance; is'nt he a ate the world. funny fellow and a great contortionist. He can act as good as a professional comedian. When "The demand for less hours of work for the he is in the spirit he can work himself up into a employed means more work for the non-employed" supreme frenzy and not only make his hair stand on end, but make his very hones tremble. Its all had no non-employed for the past eight years. for effect, but the effort is so apparently mechan. It has been all the other way, men have had to be ical, that one has to laugh at or weep for and not tempted hither from other countries, and if the

Probus appears to me to be an air beater and there is something amusing, if mayto the Mines Act which places it as the foremost hap not inspiring in watching his performances. piece of mining legislation in the world. And But at this time I wish to refer to some state-while the P. W. A. was doing this what was the ments of a correspondent from Dartmouth whose name slips me at this moment. This correspondent claims he is a socialist. He may be on some from the report of the bituminous mine inspect- points, on others he is sound and sensible. He opposes a statutory eight hour day on the ground that it infringes on the liberty of the workman to set his own hours. He holds, and I think rightly, that if a statute says a man shall not work more than eight hours, the same statute forbids him to work less. His hours of work then are fixed for him by statute and not by him, as an individual. I am half convinced that if the miners of Nova Scotia believed that a statutory eight hour day meant a minimum as well as a maximum of the hours each day they were to labour, very few indeed of them would join in the demand

Another contributor of the Herald takes opposite ground He is wholly in favor of an eight hour day for the joy it will bring. The Dart-The Dartmouth mans views are more to my liking. Once upon a time I discussed the eight hour day with one now holding a high place in the Dominion Cabinet. A remark of his struck me forcibly, and put me on a new vein of thought. Said he When I was serving in the capacity of ——— I often worked sixteen hours a day, I had to do it or continue stationary." or words to that effect. "Those who are compelled to toil do not do so for the pleasure obtained by the employment". way I do not like the word toil. Few of us really toil though we may all labor. We all get something, however little we may consider it for our labor, while toil is unrequited labor. When the fishermen on the Lake of Gallice were asked by the Master how it fared with them the reply came across the water "We have toiled all night-and caught nothing" There the word is in its proper or for the love of it, as well as for what it brings, thorough wetting and laying of the dust, the use and very few men indeed are worth a stuff whoof locked safety lamps, the employment of com- do not glory in work and their ability to engage petent shot-firers, and the maintenance of rigid in it. What a miserable crowd we would be if we had nothing to do. "And God cursed the On ground that could ground for mans sake". preduce without tillage man had made a mess of it. He got lazy, languid, and dull He needed a mines in the various bituminous districts which tonic badly, so he was put to upweeding thistles and battling with briars, and he was more of a

man thereafter. O the glory of work.
"Men who are compelled to sell their time very naturally desire to sell the smallest portion of that time for the highest possible price.

And is it not because we are all tarred with the same stick that there is so much strife and turmoil in the world. Don't the most of us wish to get the most from the least? And yet it is the

But from a Nova Scotia standpoint we have

hours are shortened no non employed in this province can get the benefit. That will go to aliens and strangers. Moreover this immigration will have an ill effect whenever times become dull, The shortening of the day will not have any effect, except, perhaps, temporarily on non-employment. When men worked twelve hours per day there were fewer men out of employment, in other lands, than there is to-day; and if we shorten the day then surely machinery will be introduced to make labor perform more in a given time, and

wages, through a reduction of working hours, is not borne out by looking at the facts.

Indeed it is. Be it remembered that an eight hour day for miners is the scope of the commission lately appointed. One of the reasons urged them. for a shorter day is that some miners who work long hours make more money than those who work the lesser number, and these fear that big effect. pays will lead to a reduction. Some desire an pays win lead to a reduction. Some desire in the air monatt may be termed a moderate man, and every one of that stamp is detested by the pties in that time. Accordingly if the miner cuts loudest shouters in the P. W. A. may be the lean-a few boxes less coal and the loader fills a few est in the production of practical and beneficial less it is a serious loss to the miner. The eight reforms. My opinion of Mr. Moffatt is that he is hour day will also be a loss to the firemen and a fair man intelligent, and being intelligent, reas-cather colliery workers who are paid by the hour, oughle. If he was less so he much the in higher nour day will also be a loss to the uremen and a fair man intelligent, and being intelligent, reas-other colliery workers who are paid by the hour, onable. If he was less so he might be in higher other contery workers who are paid by the nour onable. If he was less so he might be in higher than a first the price paid the miner per ton, or repute with the noise makers, who having come And neither the price paid the miner per ton, or repute with the noise makers, who having come the rate paid the fireman per hour can be increase to the conclusion that they want a thing, be it energing the part one premain per nour can be mercass, to one concussion, that they want it ening, be it ed for the reason, that the operators cannot pay right or wrong, determine to get it with or withship notice of the property of the p higher rates without an increase in the price of out rhyme or reason. coal, and the present temper of the public-the consumers—precludes any such action. Perhaps change, it is their way. It is a pity these would consumers—precinces any such action. Fernaps change, it is their way. It is a pity these would enough has been said at this time on the subject. not seek to hold a good man when they have him. enough mas been said at this time on the subject. Hot seek to hold a good man when they have him. It would be well for the miners of Nova Scotia A former secretary of the P. W. A. used to talk hefere demanding the research of a statutory the manhors that as soon as they were ready for

Will tend to increase importation of aliens. May render the double shift necessary.

May interfere with an occasional six hour day asked:

will make necessary more development work, frequently in a lawyers office?

Will make necessary more development work, frequently in a lawyers office?

Said Mr Jones;

Said Mr Jones; May cause labor, on the Island especially, in

I am of opinion that many miners would prefer the present arrangement of hours, to the

Mr. Moffatt's incumbency the Association added immensely to its membership. The good times aided his efforts to swell the membership. In the matter of legislation, looking to the betterment of the colliery workers, he was also most successful, though his task in this respect was more difficult than the securing of new members, as the ground had been gone well over previous to Mr. Moffatts assuming office. The reasons for Mr. still more men will be idle. An eight hour day run affairs much better and faster than those at might possibly do good in a protected district the head. The slowness or the seeming slowness magar possing no good in a protected district the near. The slowness of the seeming slowness where strangers were excluded, but no perceptible of progress vexes these restless souls, and hence where the strangers were excluded, but no perceptible of progress vexes these restless souls, and hence on, where an come in who will.

"The statement of an inevitable reduction of of the discontented may not be large, but they a continual clamor for a change. The numbers are numerous enough to make a disconcerting noise. These noisy ones are wise in their way. They know if they keep up jeering and sneering long enough the heart of the leaders will fail And the pity is that the solid men in the society do not think it worth while to stifle the agitators before their bluster has a chance to take

eight nour day so that not a few may be prevent—and every one of that stamp is detested by the ed working nine hours. Miners are not paid by fire-eaters, those who would right wrongs 0 tso. the day; they are piece workers, or on contract, easily by bluff and bluster. But it is only the A man on contract generally works for all he is moderate leaders among workingmen who have A man on contract generally works for all he is moderate leaders among workingmen who have worth. A day laborer if he sparted at intervals, ever accomplished real reforms. Such men as could do, if he cared to do so, possibly as much the late Alex McDonald, and Arthur of the Encould do, if he cared to do so, possibly as much the late Alex McDonald, and Arthur of the Encould do, if he cared to do so, possibly as much the late Alex McDonald, and Arthur of the Encould do so, possibly as much the miner can gineers Brotherhood, and Burns and Neil still work Keit Hardies' for H not. And can the miner's loaders. It it takes the with us. Your Deess and your Keir Harnes loaders now ten hours to load say fifteen boxes, and such like are but flashes in the pan. It is Such men as toaders now ten nours to toad say niteen boxes, and such like are but mades in the pan. It is they cannot load that number ineight hours even said that "the leaner the pig the loader the grunt" is a subject to the property than they cannot load that number meight hours even said that "the leaner the pig the loader the grunt" if willing for they may not be supplied with em. The moral is applicable at the present time. The pites in that time. Accordingly if the miner cuts loadest shouters in the P. W. A. may be the leaner that the loader that

It would be well for the miners of Nova Scotia A former secretary of the F. W. A. used to ten before demanding the passage of a statutory the members that as soon as they were ready for sight hand he took delicate in telling the second second by took delicate in telling. ocione demanding the passage of a statutory the memoers that as soon as they were ready for eight hour day to take a few things into consid- a change so was he, and he took delight in telling was secretary for the Miners Union with head-quarters at Pittsburgh was found fault with at "Mr. Jones who at one time a convention for spending part of his time in a barristers office. One of the delegates got up and

"I would like to know why Mr. Jones is so

ty cause moor, on the island especially, in II you really wish to know a may ten you. the winter time to be too abundant, and I am learning law so that when you have done I am learning law so that when you with me as you have done with every secretary who went before me, I will not be out of a job. That delegate let Jones alone during the re-

The resignation of Mr. John Moffatt as Grand honorable and who will play the game fair, or not secretary of the P. W. A. will be a cause of reat all, has as a rule a weary and wearing time of the P. W. A. will be a cause of reat all, has as a rule a weary and wearing time of the P. W. secretary of the r. w. A. was be a cause of result and, has as a rule a weary and wearing time or great to a majority of the more intelligent, sincere it. In selecting a secretary two to one the P. W. and unselfish members of the Society. During A. will go further and fare worse.

What 'Peter Patterson' of the U. M. W. doesn't know about the coal trade to Nova Sectia would fill a letter to the Herald. Peter in his bland way, in a letter to the Labor Herald says:—'I would like to ask why there should be any rivalry between the workinging men of the two countries, when there is none between the capitalists, and the sooner the workingmen understand this the better for themselves and their families."

Why so Peter. What harm has the lack of this knowledge ever done. Will you please go a little more into details and tell us why it would be better for themselves and families if they could but get it into their craniums, that there was no rivalry between the capitalists of the U S. and N. S. The fact of there being no rivalry between the capitalists of the two countries is not to the point Peter. If you want to produce an argument if favor of the absorption of the P. W. A. by the U. M. W. you will have to go a few paces further, and tell us that the N. S. coal operators are quite willing that their affairs should be managed by the operators of your country. Do you think our men would do that Peter? If you do, you don't know them, really you don't. The United States operators have not, so far as is known,-I am sure they have not, asked the N. S. operators to co-operate with them, let alone hand over their affairs to be managed in the U.S.. And why have they not done so? Because they know there can be no real co operation between rivals ; because they know that the interests of the N. S. operators and theirs are not identical, not by a 'long chalk' But had they been asked the reply of the N. S. operators would be Oh no, we prefer to holler in our own water barrel'. And it is a surprise to me Peter, really it is, that when you asked the N. S. miners to come and play in your back yard, they did not turn turk and tar you. You say further, Peter, that there can be no rivalry as your coal and ours goes to the natural markets of both countries. Well, that is only a half truth. If Ontario is a natural market for your coal, then you have it all. But where do we come in. Where is our natural market at your end. True, we send some slack coal to Boston but that is only by way of an obligement. Your natural market embraces all the country fifty miles west of Montreal. We have from there eastward. have been trying for years, Peter, to get a slice off your market, ours being small, but with but poor success. Now, while we have been unsuccessful in invading your 'natural' territory, you have been successful in encroaching upon our preserves You are actually this year supplying the Quebec Central with your coal, and listen, Peter, if the N.S. miners are so silly as to allow you to absorb them, boots and body, I would'nt be surprised after a while to hear that you had managed to secure a big slice of the G. T. R. and C. P. R. contracts, and then where would our natural markets be?

#### INVERNESS RAILWAY & COAL CO.

Shipments 1	66	1	908 907		
Increase	44	1	908	8	385
Shipments	5	mos.	'08 '07	98 74	120 975
Increase			'0880'		

#### Coal Shipments MAY, 1908

-DOMINION COAL COMPANY, LTD. -

-Output and Shipments for May, 1908--Output- -Shipments-

Dominion No.	2 65 594 3 36 271 4 36 759 5 63 651 6 22 544 7 3 749 8 19 851	225
Increase Shipments	332 588 344 May 1907 279 " 1908 64 5 mos. 1908 15 5 " 1907 5 5 " 1908 65	374 851 122 516 999 736

#### CUMBERLAND RAILWAY AND COAL CO.

Shipments "		1908	
Decrease	44	1908 1	850
Shipments :		1908 160 1907 142	
Increase !	5 11	1908 27	018

#### INTERCOLONIAL COAL CO.

Shipments	May	1908 1907		
Decrease	66	1908	2	190
Shipments "	mos.	1908 1907		
Increase !	5 11	1908	18	125

#### NOVA SCOTIA STEEL & COAL CO.

Shipments	Λ	Iay "	190867 190743	
Increase		**	190824	410
Shipments "	5 5	mos.	'08223 '07163	
Increase	5	44	08 59	N68

#### ACADIA COAL CO.

Shipments	May	1908	
Increase	44	1908 1	
Shipments	mos,	1908 131 1907 112	898
Increase 5	,	1908 19	

# AROUND THE COLLIERIES.

The Drummond Colliery shipments for May are short in comparison with May of last year, owing to yard at the Joggins, short shipments of slack coal on account of the slack work at Lendonderry and other places.

If men are out of employment in the upper provinces and the United States, there is evidently no lack of work, for all who are willing, in N. S. fortnight ago Mr. J. R Cowa s of Springhill, wired the mayor of Amherst that owing to many of the men About a the mayor of runnerst that owing to many of the men the Congrecto mine output has been large beaving the mine to work on their farms, he could furpost three months than it has been for years nish employment to fifty loaders and other workers.

Mr. Wanklyn is in Glace Bay, and will preside in May, in spite of the much water to the General Office, during Mr. Duggan's absence on fore the new pumps were installed. cords during the next few weeks,-it often happens that way, though the common saying points to an op-Mr. Duggan deserves a holiday, as hard work and he have been close companions for a early day.

The wages of miners in Britain are being reduced these days. Some four weeks ago the masters asked for a 12 per cent. reduction and were awarded 6 per cent. Later a demand has other places outside the province. been made for a 25 per cent. reduction in some parts of the country. So far we have been most fortunate in Nova Scotia. There will be no re-

The coal trade in G. B. seems to be in a queer way. In Lanarkshire a big colliery is to be opened on the Bardykes estate by the Summerlee Iron Company. It was shut some years ago, and seven hundred miners were thrown idle, and the village of Bardykes demolwere thrown file, and the village of Bardykes demoi- occutions. After that there was a little coal raised, pre-ished. On the other hand, a lot of mines are being sumably for the pumps or the watchman. Ever since Longriggend, two in Coalburn, one at Netherburn, one at Larkhall, and one at Shotts. The Wishaw Coal Company have closed the Dalziel pits, and miners are on strike at pits in Shotts, Cleland and Blantyre, because they cannot agree with the masters on wages.

The papers tell us that the 24th, of June will decide whether in the province it is to be the U. M. W. of America, or a reformed, improved, and patented P. W. A. It may be the former, and it shall be the latter, whether of a new kind, and untried, or the good old at large, and not, as hither o, by the members through their delegates. This is not a step in advance, it is two steps backward, and will tend to strife, if not ultimately to disruption. If the scheme goes through there will be lots of fun or uproar over the nominthere will be lots of tun or—uproar over the nominated are three units nowed for to much more than on action, as the members at large will likely be denied set these: First, No. 4 a new mine is now a produced, No. 2 has been recognized and No. 5 has been recognized. the privilege. The sanctioning of a strike is of as much and a name of the propension of a secretary, and if the than last year, and will therefore do better. If all goes

A mile of sidings are under construction in the new

Good progress is being made with the permanent bank head at the new Joggins slope.

The pay roll at the Joggins is now as large, as it was before the old slope closed down.

The Chignecto mine output has been larger for the

The Inverness mine made a wonderful showing for May, in spite of the much water to contend with be-

The New Sydney No. 4 mine of the N. S. Steel & Coal Co, has now four of the chain machine coal cutters, so we may look for an output of 600 tons at an

The overground men at the Drummond Colliery received an increase in their wages thereby obviating the necessity of a Board of Arbitration. The men were very lucky in face of the diminishing rates in

The Collins areas on which is the mine of that name have been acquired by the McKay Mining Co., operating near North Sydney. The Collins' mine is an old stager having come upon the scene forty five or more years ago, Work must have begun on the areas before years ago, bora must have began to issue its regular rethe repartment of sines organ to issue its regular reports, that is before 1863. In 1863 the Collins mine ports, that is before 1000. In 1000 the Collins limite shipped over 4000 tons of coal and in the year following then the areas have been idle. The probability is that ther the areas have been the. The probability is that the slackened demand following the abrogation of the the successed demand tonowing the auroganon of the reciprocity treaty took the heart out of the owners, though their executors held on to the property for years.

Sydney No. 2, which was dormant for the past two or three years has been unwatered. The long flooding of the mine has not, of course, had a sustaining influor the mine has not, or course, has a security and ence on the roof and sides of the former workings, and there is a lot of debris to be cleaned out, and repairing to be done. In a few weeks No. 2 should be contributwhether of a new kind, and untried, or the good one Coul Co. should have hive mines producing coal, and it fashioned kind which never was beaten. One of the will all be needed, for several reasons. The coal or bank the coal or bank that was stocked bank the coal or bank. this year is only half the quantity that was stocked last No. 1 mine getting hoary with age may not be year. No. 1 mine getting nonry with age may not be looked for to keep up its swaggering gait of last year. and No. 3 being single shifted for the whole time now may possibly fall benind its last years output. There here are three things looked for to much more than off importance as the selection of a secretary, and if the usual met year, and will increase do better. If all goes latter has to be done by a vote of all the members, for as expected, the second half of the year should make a remarkable showing.

## Plumbago for all

# Purposes.

The

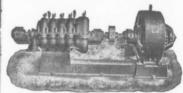
**Dominion Foundry** Supply Company,

\*\*\*\*\*

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 wise selection is afforded by the many types of Westinghouse Motors, among them you are assured of finding the otor to exactly meet your requirements.

### Office and Works, Hamilton, Ont.

Traders Bank Bldg., Toronto.

Sovereign Bank Bldg., Montreal. 922-923 Union Bank Bldg., Winnipeg.

*Priestleys*Mohairs

Lustres

Have Excellent

Wearing Qualities,

WILL NOT COOKLE = = WITH RAIN : =

Best for \_\_\_\_

SPRING AND SUMMER SHIRT WAIST SUITS.

Greenshields Limited, Sole Agents Ladies who wish to look wear Priestlys Dress



Herzler & Henninger Mach. Works Manufacturers of

H, & H. Coal Cutters & Tornado Coal Drills Belleville, ILL., U. S. A.

# Amalite ROOFING



Amatite will last for many years without any care whatever. It is made to be trouble proof as well as weather proof.

If you had a sample of Amatite in your hand you would see in an instant why it needs no painting or coating to keep it waterproof.

It has a rough surface of real mineral matter on the weather side. It is evident to anyone that it is no more necessary to paint auch a surface than it is necessary to paint a stone wall.

Stone needs no paint; neither does Amatite. It is strong enough in itself to bear the brunt of wind and sun without a protective coat of paint,

To point Amatite would be a waste of time and trouble.

A roofing that consists of smooth materials, made to receive a heavy coating of paint, is not a roofing at all—the paint is the real roof.

If you are told that certain :coofings don't need painting when first laid, don't be deceived into thinking that they are like Amatite. The first coat of paint has been applied at the factory—that's all, and it will wear off in a little while and require renewal.

No paint is good enough to make a durable roof; a thick layer of pitch, faced with a real mineral surface is far better—and that means Amatite,

### FREE SAMPLE AND BOOKLET

A Free Sample with Booklet will be sent on request to our nearest office.

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

VICAR TRYS PIT LIFE.

The Rev. T. W. Dearnley, the Vicar of St. Peter's Church, Parr, St. Helens had an unusual experience in the Ashton Green Colliery, putting in a day's work at the coal face. His purpose was to test the collier's dead tired, and shall be glad to get a good sleep.' He started about 5 a. m. and finished at 3 p. m. His working place was 4 feet 6 inches high, and about 800 during the day about four tons of coal! 'No wonder colliers are a silent lot,' was another remark he made. There they go steadily all day, in all sorts of positions, and working very hard. A collier earns every take care of the money he does earn, and not fool it sentence might well be taken to heart by other than British Colliers—Ed. Record.

Two many aspirants for the leadyship will likely cause defeat to the textile workers who came out on strike against a reduction some time ago. The former leader of the men was adverse to a strike as a retuction had been accepted in the United States. The working officers disagged on this point. The head man was dismissed and now he has formed a new ermanization with 900 members. The strikers will likely accept the terms offered before the strike.





### Synopsis of Caradian North-West.

#### Homestead Regulations.

A NY even numbered section of Dominion Lands in Manitoha or the North-ward Provinces, accepting 8 and 28, not reserved, may be homestesded by an west Provinces, accepting 8 and 28, not reserved, may be homestesded by an experiment of the section of the section of the section of our desired of the section of the section

by the father, mother, son, daughter, brother or stater of an inteniong consistence.

An application for entry or cancellation made parsonally at any Sidnagents often any be wired to the Agent by the Subagent, at the expanse of the

ed or.
When an entry is cancelled subsequent to institution of cancellation prodings, the applicant for cancellation will be entitled to prior right of entry. Applicant for cancellation must state in what particulars the homestead is in default.

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

A homesteader whose entry is not the subject of cancellation proceedings and homestead whose entry is most process. A homestead of the approach of the process of the subject of cancellation proceedings mother, son, daughter, brother or size, residence who are subject to the approach of the subject of s

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

Coat. Coal lands may be purchased at \$10 per series for self-coalTand, \$20 for antifractic. Not more than \$20 acrees can be acquired by one individual or sempary. Royally at the rate of ten cents per too of 2000 pounds shall be coerabary. Broyally at the rate of ten cents per too of 2000 pounds shall be coerabary. Broyally at the rate of ten cents per too of 2000 pounds shall be coerabary. Broyally at the rate of the per annum for a company according to capital.

A free minor for an ind vidual, and from \$60 to \$100 per annum for a company according to capital.

A free minor, having discovered mineral in place, may locate a claim \$100 for the per annum for a company according a claim is \$5 for the per annum for a company according a claim is \$5 for the per annum for a company in the per annu

The patent provides or the years.

Sales.

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

Placer mining claims generally are 100 feet square; entry fee \$6\frac{1}{2}\$ renewable years.

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

The lease shall have a dredge in operation within one season from the date of the lease for each five niles. Refutal \$10 per anum for each mile of river leased. Boyally at the rate of \$2.12 per cent collected on the output after it exceeds \$10.00.

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 ENQUIPLES AS TO PRICE AND QUALITY.

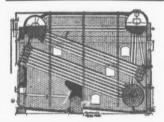
Works -- SYLVESTER

Head Most-STELLARTON.

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

### **ROBB-MUMFORD**

### WATER TUBE BOILERS



FREE EXPANSION OF TURES. 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.

# PIOSIVES

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.

# LLAN. WHYTE & C'O'Y.

Clyde Patent Wire Rope Works,

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

Wire Rodes

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 Haul-The Nova Scotia Steel & Coal Co., Ltd., who use our Ropes largely, write that one of our Haul-age 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-

# WIRE ROPE GREENI

HAMILTON, ONT.

All Kinds and Sizes and for all purposes.

Standard and Lang's Patent Lay. Prompt Shipments. Prices Right.

Rope Fittings.

Rope Grease. THE B. GREENING WIRE COMPANY, LIMITED. MONTREAL, QUE.

CANADA FOR THE CANADIANS!

"DOMINION" For Everybody.

PATRONIZE HOME INDUSTR

The DOMINION WIRE ROPE CO., Ltd., Montreal

# FRNESS IMPERIAL

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.

COAL the most modern type 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.

EASTBOUND			T	WEST	ВО	UN	(D	
No. 52 No. 54 a, m p m		STATIONS.		Read Up				
					No. 58 p m			
L 11 00 8 11 06 A 11 23	L 3 50 8 3 55 A 4 08 L 4 13 F 4 25 8 4 38 F 4 50 8 5 05 F 5 18 A 5 33 A 5 33 R 6 16 8 6 28 S 6 48 8 7 02 A 7 15 P m	PORT HANTINGS TROY. CREIGNISH JUDIQUE CRAIGMORE CATHERINES POND PORT HOOD GLENCOE MABOU GLENDURE	ASLAFSFSFLASSSFSL	10 50 10 42 10 22 10 17 10 07 9 54 9 37 9 13 8 47 8 42 8 25 7 55 7 45 7 30 7 17 7 00	8	3 3 3	85 27 10	

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

Burns and Works like Ri

Looks and Lasts Like Anthracite: IT HAS NO EQUAL.

Mines, Piers and General Offices

MABOU. CAPE BRETON.

# North Atlantic Collieries.

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

Miners and Shippers of 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.

Head Office for Canada, New York Life Building, Montreal, Branch Office, Traders Bank Building, Toronto,

## A. &. W. MacKINLAY

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.

35 to 137 GRANVILLE STREET.

HALIFAX. 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 Dominian Coal Company.

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

CANADIAN CO., LIMITED

MONTREAL. HALIFAX. TORONTO. WINNIPEG. ROSSLAND. VANCOUVER



CONSULTING ENGINEERS C.ROBB CHIEFENGINEER

HEAD OFFICE TORONTO

WHEN WERE YOUR BOILERS

....LAST INSPECTED !....

G. W JONES, Agent,

Halifax, N. S.

-OR TO-

A. BONNYAN, Inspector

Amherst N. S.

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

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

For Transmitting Conveying and Elevating.

Unequalled for Durability and Power Transmitting Qualities.

-- MANUFACTURED BY-

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

Branches at Montreal, Winnipeg and Vancouver

Head offices, 47 Yonge Street, Toronto

MINING RECORD

## Acadia Coa STELLARTON, NOVA SCOTIA.

Miners and Shippers of the

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

**JOGGINS** 

**High Grade** Steam -AND-

Domestic

Unexcelled for General Use.

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

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 g ven

CORRESPONDENCE SOLICITED

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.

of Fine Quality

Better than Scotch seconds for Ladle lining etc.

SHIPMENTS BY RAIL OR WATER.

Westville

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

STEEL Foundry Co.,





CAST STEEL BRONZE BUSHED SELF OILING



PERTECT GYRATORY STONE CRUSHER.

WE MANUFACTURE CRUSHING ROLLS, ELEVATORS. and Gold Mining Requisites



HADFIELD'S PATENT

**JAW CRUSHER** 

(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, Limited Sheffield, for Canada,

PEACOCK BROTHERS, Canada Life Building, MONTREAL

# 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.

THE

# 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 HIGH 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 Braw 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, SHIFNAL, England:

Tel. address "Edge" Shifnal.
"Codes" A. B. C. and Bedford McNeills"

### CUMBERLAND

RAILWAY AND

OPERATING THREE THICK SEAMS NOS I, 2 AND 3.

COAL COMPANY.

-Miners and Shippers of the Well Known-

# FRESH MINED SPRINGHILL COAL

... ANALYSIS ... 2.71 % 1.41% 2.02 % Moisture..... 28.41% Volatile combustible matter 18.94% 27.93 % 67.47 % 64.69 % \*Fixed Carbon. ..... 75.29 % 4.19 % .... 3.75 % 8.19 % 100.00 100.00 100.00 .79 % 58% 1.15 % Sulphur.....

BEST COAL FOR

Belivered By Rail or Water

GENERAL STEAM PURPOSES.

The year Round

IN Lets To Suit Purchasers.

MESTIC CONSUMPTION

BEST GAS COAI

Mined in the Province.

Mines\_\_\_\_\_

N. S.

MONTREAL

# 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	GA	AS COAL
HYDROGEN	**********	5 11 "	ent. 77 51	per. cent
OXYGEN			6 72	
SULPHUR		1 16 " "	1 27	66 66
SULPHUR	****** *	0 56 " "	3 07	44 44
ASH		2 30 11 11	4 10	cs 66
WATER		3 35 " "	2 11	11 11
	100	00	100.00	11.

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. 岁

# :: BUNKER COAL ::

The Dominion Coal Co. has provided unsurpassed facilities for Bunkering Ocean going Steamers with Dispatch. Special attentiongiven 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 Geni. 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