

Cumberland.

Pictou.

Cape Breton. \* Inverness

New Series Vol. 11 No. 16 FEBRUARY 24th. 1909

STELLARTON, N. S

Charles Control of the Control of th

## J. W. **GUMMING**

& SON.

Mining Appliances.

The high quality and special design of our goods has placed them in use in every mine in the Maritime Provinces, and We are now beginning to supply the Mines so rapidly increasing in the West.

New Glasgow, N. S.

Cumming's Modern Patented

COAL DRILLS.

High Grade Miners Tools.

Mine Cars

HITCHINGS.

Light and Heavy

Forgings

of all Descriptions.

A. B. C. & A. 1 Codes Used.

Telegraphic Address, Latch, Haymills

## LATCH & BATCHELOR, L'1'd. AMALGAMATED WITH

WEBSTER & HORSFALL,

(ESTABLISHED 1730.)

Works: HAYNILLS, BIRMINGHAM, ENGLAND.

AGENT: H. M. WYLDE,

PO Box, 529 HALIFAX N. S.

...... Patentees and Manufacturers of

# Locked Coil and Flattened Strand WIRE ROPES.

Manufacturers of all Kinds or WIRE ROPES for

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



Locked Coll Winding Cable.







Locked Coil Aerial Cable or Colliery Guide









Patent Flattened Strand Winding or Hauling. Fatent Flattened Strand. (non spinning)

DRAWERS OF AIGH CLASS STEEL-WIRE.

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

# ACADIA POWDER CO., LTD.

## DYNAMITE

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

FLAMELESS EXPLOSIT &S for GASEOUS MINES. DYNAMITE, for SUBMARINE BLASTING, SUBMARINE FUSES.

LICENSEES FROM THE Nobel's Explosives Co., Ltd., for the English permitted coal mining brands, "Monobel" & "Saxonite," etc.

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

-76 and 78-

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



# **Motors for Mines**

It is No Trouble

to place motor driven apparatus exactly where wanted. There are no lines of power wasting piping to worry about Simply wires. You can run wires anywhere.

ADDRESS NEAREST OFFICE -LIMITED

Office and Works, Hamilton, Ont. Traders Bank Bldg., Toronto. 232 St. James Street Mo 460 Fender St., Vancouver. 155 Granville St. Halifax 922—928 Union Bank Bldg., Winnipeg.



Herzler & Henninger Mach. Works

Manufacturers of

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



## "FENERTY" SHOVELS

Miners, Contractors and Heavy Work.

General Purposes, MANUFACTURED BY

### The HALIFAX SHOVEL Co

HALIFAX, N. S. ALL GOODS GUARANTEED.

SPECIAL SIZES and SHAPES MADE TO ORDER

Genuine Garlock Packings
FOR ALL PURPOSES.

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

also

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

## HAMILTON, ONTARIO.

Used by Coliteries in Lancashire.Staffordshire & Yorkshire

COLLIERY LAMP OIL.

E. WOLASTON, Dutten St MANCHESTER Sole Representatives for Canada, Austum Bnos., Halifax, N. S.



RAILWAY STREET and MINING

CAR WHEELS FORGINGS &

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

Large Stocks of Foreign and Domestic Lumber on Sale.

Rhodes, Curry & Co., Ltd.

BUILDING MATERIALS GENERAL

ROBBIE STREET, HALIFAX, N. S.

AMHERST, N. S

On and after SUNDAY, JAN. 10th 1909 trains run daily, (Sunday excepted,) as follows:--

THAINS LEAVE STELLARTON-	
To 144 Mixed for Hopewell	5 55
to 79 Mixed for Trenton	6.30
	7.00
18 Express for Halifax, and St. John	7.40
21 Mixed for Pictou Landing	7.40
62 Mixed for Pictou.	7.45
55 Mixed for Mulgrave	8.90
19 Express for Sydn y	11.10
28 Mixed for Pictou	11.15
56 Mixed for Truro 139 Mixed for New Glasgow	18 55
20 Express for Halifax and Montreal	15.15
	15.90
101 Mixed for Pictou Landing	16.45
	18.10
	19,50
17 Express for New Glasgow	21.50
66 Express for Pictou	21.55

-TRAINS ARRIVE AT STELLARTON	
79 Mixed from Hopewell 78 Mixed from Tenton 78 Mixed from Trenton 80 Express from Fictor 18 Express from New Glasgow 18 Express from New Glasgow 28 Mixed from New Glasgow 28 Mixed from New Glasgow 27 Mixed from New Glasgow 50 Mixed from New Glasgow 70 Mixed from Mulgrave 50 Mixed from Hopewell 70 Express from Sydnay 22 Mixed from Fictor Landing 77 Mixed from Hopewell 77 Mixed from Hopewell 60 Express from New Glasgow	6.30 7.00 7.30 7.35 7.35 8.00 10.55 13.35 11.00 15.03 18.16 18.46 19.35
17 Express from St John and Halifax	21.46
II to to a second of the managed the managed the managed the managed the second of the	

I trains are run by Atlantic Standard time Twenty-four ur motation. Twenty-four O'clock is midnight. Moncton, B. Dec. 31st. 1968.

Sleeping and Diniug Cars between Halifax and Sydney, on Nos. 19 and 20 trains

### CANADIAN ASBESTOS CO. FACTORY, IN LACHINE, QUE.

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

Manganese Steel Castings for MINING PURPOSES.

Point St. Charles.

Montreal Canada

ESTABLISHED 1863.

## 1 Supply Co.

PITTSBURGH, PA.

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

Screens, Screen Bars, Screening Plants Complete, Car Dumps, Cars, Car Wheels, Larry Wagons, Hitchings, Etc. LET US SUBMIT PLANS AND ESTIMATES.

MANUFACTURERS OF

Coal and Coke Works Equipment.

### COLLIERY SUPPLII

Wrought Iron Pipe. Cast Iron Fittings.

Brass and Iron Valves, Steam, Water and Suction Hose. Metals of all kinds. Boiler Plates and Tubes.

Portland Cement. Fuse and Detonators. Fire Brick.

Neva Scotia Agents for

Allen, Whyte & Company's Wire Ropes.

WM. STAIRS, SON & MO

HALIFAX, NOVA SCOTIA.

# NOVA SCOTIA STEEL & COAL COMPANY,

LIMITED,

MANUFACTURERS 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 :

COAL

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.

Che Best Steam Coal

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

-SAILING VESSELS LOADED PROMPTLY .-

For Prices and other Particulars, apply to-

Head Office, New Glasgow, N.S.

### 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 KEYSTO

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

It can be used in connection with any good "churm" drill, but operates best on the long-stroke KEYSTONE, thus making the chaepest and quickest method of oring to be found,

In operation a hole is sunk to the coal with the ordinary Rock
Bit. The Bit and Stem are then removed and the Coring Attachment put on in their place. It takes a 4 ft. core out of the Softset as well a the Hardets prift on the vein. Avoids all delay and
expense of "rold" water wain, diamonds, shot, and heavy operatting mechanics.

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,

Steam Goods -of every-Description. Boiler Tubes, Steel Plates. Angles, Tees, etc. SOLID DIE

Iron Pipe for

Mining Purposes.

-Catalogues and Prices on Application.-

MONTREAL, OUE.

### Jeanesville Pumps



For MINES WATER WORKS, SEWAGE. ETC., ETC.

Are Reliable, Efficient, and Substantial, Because almost Fifty Years Experience Stands back of Every Machine. Following types for any capacity, any head: DIRECT ACTING and CRANK and FLY-WHEEL. CENTRIFUGAL PUMPS, VOLUTE or TURBINE.

Steam or Electrically Driven Jeanesville Iron Works Co., HAZLETON, PA., U. S. A.



# NOVASCOTIA. Mines of Gold, Silver, Coal,

Iron, Copper, Lead, Etc.

**建设成的大学设备设备设施的设备** 

Titles direct from the Crown-

At Moderate Royalties.

## GOLD AND SILVER.

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

Licenses are issued to quartz mills, which make returns and pay royalty on the gold at the rate of two per cent, on milled Gold valued at \$19.00 per oz.

# Minerals other than—Gold and Silver.

-LICENSES TO SEARCH-

over five square miles for eighteen months, cost \$30,00; leases for four renewable terms of twenty years each can be selected from them at a cost of \$50,00, and are subject to an annual rental of \$30,00 All titles, transfers, etc., are recorded free of charge by the Department. The royalty on coal is 10 cents per long ton, and on other minerals in proportion

minerals in proportion

The Gold District covers over three thousand square riles, and the deposits of coal iron ore, etc., are practically unlimited.

FOR INFORMATION APPLY TO-

### CHRISTOPHER CHISHOLM

Commissioner of Public Works and Mines, Halifax IN. 8

## MINUDIE COAL COMPANY,

the

in the Celebrated

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.

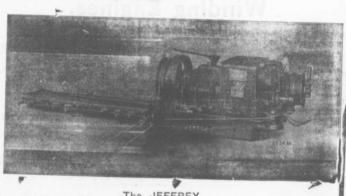
Direct connection with the I. C. R.

Colliery

RIVER HEBERT, N. S.

Geo. H. Bisset, See'y. Treasurer.

Mine Manager:—HY, McCARTHER. Business Manager, R. S. HIBBARD, River Hebert, N. S. Head Office, 212 St. James Street, Montreal,



### The JEFFREY 26-B "Shortwall" For room and piller work on the Longwall plan.

Consumes less power per cubic inch of coal cut. Occupies less space, permitting the props to be set closer to the face of the coal Is more easily controlled, operated, and handled: Is simpler and has greater strength, motor touer, and endurance than any other make of Nike Outsing Machine. This machine is loaded, unloaded moved to and from the onal face and in fact handled throughout by its own power. Fully described in Bulletin No 1B 14

The Jeffrey Mfg. Co., COLUMBUS, OHIO. U. S. A.

New York

Chicago

Boston Pittsburg,

Charleston Knoxville St. Louis Montreal

## DOMINION BRIDGE CO., LTD., MONTREAL, P. Q.

# BRIDGES

TURNTABLES, ROOF TRUSSES

ELECTRIC & HAND POWER CRANES
Structural METAL WORK of all kinds

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

# WALKER BROTHERS (WIGAN,) LIMITED

Wigan, England.

# AirCompressors, Ventilating Fans, Winding Engines.

Largest Air Compressors in Canada are of

Walker Brothers (Wigan) Limited, Manufacture.

The following companies have installed **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. BELMONT GOLD MINE Ltd.

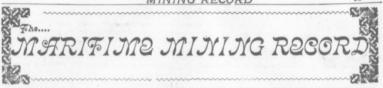
TNTERCOLONIAL COAL MINING CO., Ltd. CAPE BRETON COAL IRON & RY. CO. Ltd.
THE CROWS NEST PASS COAL CO., Ltd.

SOLE CANADIAN REPRESENTATIVES PEACOCK BROTHERS CANADA LIFE B'L'G

The Mark to Look For if You Want



Highest Grade
Materials,
Particular Workmanship,
Greatest
Efficiency
in your BOILER.



Vol. 11, No. 16. Stellarton, N. S., Feb. 24th, 1908, **New Series** 

### SELECTED QUESTIONS AND ANSWERS.

(Science and Art of Mining.)

### BOILERS

O .- The water in a steam boiler is dangerously low. What precautions would you adopt?

A .- The first thing the attendant in charge of a steam boiler should learn is the necessity of keeping a

sufficient supply of water in the boiler. Upon taking charge he tests the supply of water in the boiler by means of the guage-cocks, which are so situated on the boiler that the upper guage-cock, when opened, should have steam issuing from it, the middle cock both steam and water, and the lower guage-cock water only.

Now, as the question says the water is dangerously low, we will concentrate our attention upon the lower guage cock, and if on testing we find that this cock, instead of showing water shows steam, it is a sure indication that the boiler has too little water in it, and we must take immediate steps to remedy the evil.

The precautions necessary are as follows: Do not start the feed pump to inject more water; it may crack the boiler.

Do not stop or start the engine until the boiler has been cooled.

Do not lift the safety valve until the fires have been drawn and the boiler cooled

Do not draw the fire first thing, because the operation creates an increase of heat that would lead to disastrous consequences in the present dangerous condition of the boiler.

The first precaution to adopt is to close the draught and bank the fire with ashes. (A better substitute would be damp earth if any were at hand). The object of this is to cool the boiler and decrease the steam pressure, After awhile if the boiler has cooled and the fire been made 'dead', the fire may be withdrawn if the operation are asked to describe what you consider the best metcan be performed without increasing the heat, it were better to smother it.

The attendant must leave the safety valves as he finds them, because, if he opens them, (or any other valve) with the mistaken object of decreasing the steam pressure, just as much steam as escapes will again be generated and add additional dangers by further de- and neglect on the part of the men creasing the supply of water that remains in the boiler.

It would be unwise to start the engine for the same reason, but if the engine is running when the evil is discovered and suddenly stopped the recoil of the steam would form a very serious danger, theretore it were better to keep the engine running until the danger was heading are due to the carels and willful disregard of somewhat alleviated. This sudden retrocession of steam the rules in order to earn a little more money, or begives rise to an enormous force, and must be guarded against at all times. It is a great danger to start the feed pump, as the water being dangerously low, the more regrettable because they are occasioned by the plates are overheated, and would become brittle and lineglect of those who should set a better example in re-

able to snap if cooled suddenly in water. When iron is overheated it becomes speedily oxidised, and its tenacity and cohesive force is much reduced.

When these precautions have been observed, the boiler cooled, the fire damped or drawn, and all immediate danger removed, water may be run into the boiler and the fire started up.

The fire should not be started until there is sufficient water in the boiler, and no risk of breaking or blistering the boiler run, as would be the case with an uncertain quantity of water and a hot fire There is great danger in getting up steam to fill a boiler whose water is low. After a boiler that is clothed with masonry has been entirely blown off it should not be refilled under 24 hours, as it will not have cooled off thoroughly before that

Few people realize the waste power that exists stored up in an ordinary steam boiler. Just because there is no movement about it, one is apt to think that there is no Under the conditions munioned in the power there. question, it is necessary to remember one point in particular, and that is, the very things one would naturally think ought to be done are the very things one must on no account do. We taust not open the safety valve, nor turn cold water into it, nor yet rake out the fires, must not interfere with the engines in any way, better agent than dry sand can probably be made use of for extinguishing the fires, and a supply should always be kept adjacent to the boiler-house. To prevent the be kept adjacent to the boiler-house. water from getting low, automatic appliances should be fitted to every boiler, but, of course, this does not come within the requirements of the question,

### FALLS IN MINES.

O .- Falls of ground are unnecessarily frequent. You If not, hod of preventing falls of roof, coal, and side in a mine.

A .- It may be as well to state here the chief reasons why the falls from roof, etc. are so frequent,

1-Falls of apparently good roof, generally arising from unseen slips

2-The careless manner in which the timber is set,

3-Disregard of the rules by the officials.

Some of those that come under the first heading are liable to occur at any time, even when the timbering s carried out in the most systematic way

A great many of those that occur under the second cause work will be impeded by carrying out the same.

Those that occur under the third heading are the

gard to the carrying out of the rules, and it is known the timbering was superfluous, instead of to keep down

The best means that I consider would tend to decrease the number of falls are :- The method of timbering must correspond to the character of rock present, and must be fixed by the manager in instructions to the men, stating particularly the limits of distance between bars, preps, etc., and that this lim t must be further reduced if necessary, but on no account must the maxim-

Every prop should be set firmly into the bottom, and um distance he exceeded. have a good sized cap to cover a fair area of the roof. Provisional timbering should be supplemented as soon as possible, the roof and walls being supported until this is done. Good parks should be hult, and kept well up to the face; and all back timber withdrawn, because when this is done it keeps the roof at the face good.

Roads should be specially protected in passing through disturbed rock, as also at cross roads and the low corners of pillars. All timbering should be set at the proper angle of slope relative to the dup of the strate. and be properly recessed into the rock. Large cavities in the roof ought to be filled up, and shut off by proper timbering of sufficient stoutness.

Close set rows of timber (organ pipes) form an excellent protection against the full of sides p and are in-

dispensable in working thick seams, In steep seams the working places should be protected against falls of coal and stone by wooden screens, and similar screens should be put up at the lower corners of pillars when the dip exceeds 30 degrees.

Sufficient timber should be supplied and delivered as hear as possible to the working face, and I would also have men to put up the timber who were not paid according to the amount of work done, or whose earnings depended on the amount of mineral sent out. I would restrict blasting to a minimum, and have shots fired in regular order, and postpone clearing away until the working place is safe before beginning to get coal, and fumes have dissipated: also at frequent intervals. especially after any pause in the work, and over-hanging and under-cut should be The districts allotted to officials should not be too tion this man recovered.

propped or spragged. lirge, thereby enabling proper supervision to be mainthat they cannot possibly give the necessary attention to the main roads leading to the district or districts.

ger ut the face before work commences, and instruct jakely after the shock. them properly in remedying the same. | Some talls are and forcing them out and oringing down the root, and it is large on the cases I would recommend the use of steel birs, or chold of his coat sleeves, and pull his hands away, also caused by the tubs coming in contact with props, timbering done by a staff of men kept just for that purpose, and I would prescute anyone who interferred with the timber set by these men,

### FIRST AID.

Q —A man receives a severe electric shock render-What means would you adopt to ing him insensible.

A.—Before describing the method of treatment 1 ectric shock is the result of instantaneous contact of the Dr, Silvester's method, as follows:

body with two conductors at different potentials. effect of the shock depends upon the strength of the that some outcass go so far as to knock timber out, or effect of the snock depends upon the savenger of the order the same to be done, giving as their reason that current passing through the body, and the period of the timbering was superfluore, instant of to keep down them. For which it is maintained, the administration of the condition of the ions and peculiarities of the patient are also determining factors upon which the severity of the shock de-A shock from a high potential is much more dangerous than a shock from a low potential, because it tends to cause a greater flow of current through the body; but other conditions, such as the extent of contact, moisture of skin and clothing, may enter into the result, and make a low potential shock produce a greater flow of current than a high potential shock under different conditions, and therefore become more

The physiological effects of shock are, broadly, as follows :- Contraction and stiflening of the muscles : dangerous. stoppage or weakening of the langs; stoppage or weakening of the langs; stoppage or weakening of the heart. The effect on the ening of the action of the heart. contraction of the muscles is that on grasping a live part it may be impossible to let go, and a shock which instantly taken would not be serious, may prove fatal. A good habit to get into is to lightly touch any part a good hatte to gee into is to lightly touch any part of any electrical apparatus (with the back of the hatte to see it it is alive before grasping it. A habit like this would probably be the means of saving life, or prayenting savere shocks

A parson, who has received a severe shock may ex-bibit the following symptoms: Unconcrousness, ess-sation of breathing, cessation, of the heart's action, turning blue or green in the tace. These symptoms to not necessarily indicate death, and death should never be assumed to have taken place. but remedial measures be assumed to have taken place, but remedial measures should be persevered with until a medical man has pronounced life extinct. Mr. F. B. Aspinal, in a pater to the Institute of Electrical Engineers (Vol. XXXI) page 781) quotes the following case of electric shock. received a 2000 volt shock from hand to hand, but He was insensible; we could not feel his heart beating, and his breath did not cloud a mirror; his eyes were turned up so that we could only see the whites of his eyes, his jaw dropped, and thus seeing the man I could have been certain that he was . . . After lorty five minutes' artificial respira-

From the above case we can conclude that in the Some officials have to cover districts an large spring days of electricity as we know it many people we cannot possibly give the necessary attention may, have been given up for dead after receiving an arroads leading to the districts of districts.

Officials should ware the men ol any special danther than the property of the propert

apparatus whilst the current is on, the best way to lease him if the connection is with his hands is to get these cases a would recommend the use of sactions, or note of this code steeres and plut of single away, or the chief strong form of timbering. I would have the cause dry clothing is a good insulator; do not lay hold. man's clothing be damp or wet get some dry material and push him off out of circuit with your shoulder and be prepared to eatch him as he is falling to prevent further injury. It is far better to break a man off the circuit than to cut off the flow of the current, because many of the serious accidents from shock have been due not to the normal voltage of the system, but to the high pressures which are set up on suddenly breaking the circuit.

The best means to adopt to revive the patient is

Place the patient on his back, with a small firm well be bestowed upon the collier who brought the oer blades; kneet at the patients need, and graspins to prevent a deaser, state to their telestates arms just below the elbows; draw them gently and families of the slain after it has taken place? The with a sweeping motion above the head, and cross colliers themselves cannot be held guildees of neglightem; keep them in this position for about two sec- ence. After explosions there have been found the tell ands, then carry the arms down to the sides of the tale matches and the tell tale pipes as any Government. chest and press firmly for two seconds, Repeat these Inspector of Mines can testify. Some of the explosmore that along the steadily about five times a sins that appear to be unexplainable are often due to minute till breathing commences or till a medical man causes about which the inspectors of mines have a suspronounces life to be extinct. As soon as breathing picton that they dare not urge, at the mevitable in-, has commenced promote the circulation by rubbing the quest, for not in every case is the absolute evidence at limbs with a firm upward movement (only) using warm their command. I When, for instance, a man sees fit to flamel or cloths if obtainable, to prevent irritation of thaw frozen gelatine in a frying pan, there is, as Prof. the skin by using the bare hand. Before his operat. Louis recently remarked, nothing accidental about the aion is commenced all clothing should be removed from "resulting explosion, except it be the fact that man so the patient's chest, and all other clothing loosened to ignorant, or so reckless, should have been entrusted allow the muscles of the body to have a free action for with such an explosive at all .- S and A. of Mining. expansion.

When a man receives an electric shock a medical man should immediately be summoned, and the above operation continued until breathing is restored, or otherwise ordered by the medical man upon his arrival

Dr. Lewis Jones, in a discussion at the Institute of Electrical Engineers, in addition to artificial respiration, recommended the elevation of the lower limbs and trunk, the rhythmic traction of the tongue which has lately been advocated, and a smart tap over the region of the heart repeated a few times in the course of the first half minute.

The elevation of the trunk and legs is to send the start that organ again if it has stopped beating. The by the P. W. A. at every stage. drawing in and out of the tongue is in itself a form of artificial respiration.

### **EXPLOSIONS AND EXPLOSIONS.**

Who can tell the countless explosions that, in legal phraseology, have been ascribed to 'the act of God', that have really been due to the act of man? A few days ago a Londoner was sentenced to a month's hard labor and fined for smoking in the fiery part of a large colliery in the Rhondda Valley, and for baving in his pos-ession a box of matches, tobacco, and a bottle containing whisky-all in defiauce of the rules and regulations for the safe working of collieries. There were seven hundred men working in the colliery at the time. and their lives were imperilled One of the men smelt tobacco snoke and traced it to this miner, whose hot pipe he found lying beside him. Had there been an explosion, the cause of it would have been unknown. Lewis said that the miners of Nova Scotia were being Very few of the 700 men, if any, would have escaped. It would have been attributed to atmospheric influences. People, more learned than the rest, would have ascribed it to volcanic upheaval, having some remote connection with the Messina disaster, and a hot controversy would have raged, while the actual cause of Mine Workers' journal said that Mr. Patterson's camthe catastrophe, the lighting of a match or matches. and the smoking in the mine, would have remained unknown. The magistrate might well remark, in sen tencing the prisoner. that 'the case was most serious. We wish, says the Mining Journal, all colliers would this province, the members and officers of which quite act as the one did who traced the peril in which his properly resent the unwarranted invasion of this field 700 companions were put by the criminal folly of that by the U. M. W., especially while there are thousands ode man. It seems to us that the King's medal might of miners in the United States unorganized. act as the one did who traced the peril in which his

d

ıt

10

80

en

ng

cushion or rolled up article of alothing under his shoul- Londoner to justice, for is it not better a hundred times der blades; kneel at the patient's head, and grasp his to prevent a disaster than to form relief funds for the

### THE U. M. W. CAMPAIGN.

### Says the Glace Bay Gazette of the 18th, inst:-

On Monday evening a delegation of the P. W. A. saw Peter Patterson, organizer of the United Mine Workers, and served on him a formal declaration of war. Mr. Patterson was told of what he was probably well aware, that the P. W. A. was by no means knocked out, but on the contrary it is flourishing more actively and energetically than ever ; that the membership is being largely, increased every week; and blood to the brain as a remedy for syncope, which may that the efforts of Mr. Patterson and his supporters to be a result of the shock. A blow over the heart may establish the U. M. W. in Cape Breton would be fought

> Doing this was more or less of a formality, of course, since it was not expected to scare Mr. Patter son from the field. It has however, put Mr. Patterson and tis propaganda squarely before the public. He and the U. W. W. cannot deny that they are engaged in an endeavor by one labor union to disrupt and disorganize another. This is not a fight for organized labor. It is not a fight to organize this territory. It is simply an underhand attempt by a foreign and interloping organization, for their own aggrandizement and selfish ends, to supplant a native organization which has given abundant proof that it still maintains the vital spark of life and is capable and destined to accomplish much further good for the miners of this province.

> This feature of this matter is carefully concealed by U. M. W. officials. In his annual address, Pres. organized and there was every prospect of a large district, comprising several thousand miners here added to his organization. He did not say that the miners of Nova Scotia were organized nearly ten years before the U. M. W. began its existence. The United paign was meeting with much opposition from the Dominion Coal Co., but it did not say that his principal opposition was from the P. W. A., an order organization and one incomparably better for the miners of

### MARITIME MINING RECORD.

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

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

Advertising rates, which are moderate, may be had on application Single Copies 5 cents

Subscription \$1.00 a year.

### PUBLISHER. R. DRUMMOND,

STELLARTON, N. S.

FEB. 24

\*\*\*\*\*\*\*\*\*\*\* THE STEEL-COAL CASE.

There are about as many opinions given as to the real intent of the Steel-Coal suit as there are cures for rheumatism.

Beginning at the top notch Judge Longley says the decision is his with the scintilla of a difference that he held the contract was in force, and to be carried out, while "mi lords" say the contract was broken and can not be put together by a sailmakers needle.

The Star says that "Judge Longley says that he recommended specific performance of the contract because it would operate less seriously on the Coal company.

Those who were present at the trial in Sydney, including the financial editor of the Star, were soon convinced that the evidence did not worry the learned Judge; he spent himself puzzling over the manner in which the bomb should be thrown without blowing the Coal company into kindling

The Star says that many people are asking if the decision of the Lords is more drastic than that of the N. S. courts, and adds that the majority of the people say it is. Well, that is all a matter of The supreme court decision was, "You" - to the Coal company-'give the Steel company coal, for 90 years, suitable for the latters' purposes from the Phelau seam at \$1,24-subject to the stated readjustments—and no fuss about it, if you please." The decision of the Lords is, "No court of equity would call for a specific performance of the contract. The contract is broken; damages for the plaintiffs. Next!' The answer to the Stars enquiring friends is "Whether is it easier to say to the Coal company 'go perform an impossibility' or to say 'table down the dust,' and they all answer the former is much the more

By the decision in the Steel-Coal case, Mr. Plummer on the one hand, got just what he wanted, though perhaps not quite in the way he wanted it. Mr. Plummer wanted damages and he has got them, or rather, he is to get them, at some time in the future Mr. Ross, so all the people say, yearned to have the contract broken and the Privy Council says, "There you are, we debut the privy council declares he must pay for the the Dominion Iron & Steel Co." breakage. Of course Mr. Ross didnt want it bro-"I am." clare it broken." Mr. Ross has got his desireken in that way; he would have preferred that "Are you fami their lordships had declared the breakage didnt duction of coal"? carry damages. One long headed newspaper man says that the 1906 I devoted time to the study of the same.

Steel Company have got the latest decision, thereby leading one to the belief that the lords decision-contrary to use and wont-is not the last, We rather agree with him. If the Steel company do not give ample token that they will be amenable to reason, it is possible that the companies after all are only at the beginning of litigation.

The awful number of millions the Coal com-

pany will have to pay the Steel company appals ex-Judge Nesbitt, who, since the suit began in Sydney, has been Judge Longleys alter ego. He says that it will be seventeen millions at the very least, while the way he figures it out makes it come nearer seventy millions. His ex-Honor however is not the only one who can do a little figuring. The privy councils judgement is that the Coal company pay for past mis deeds, that is, for the short supply, for the loss entailed by stoppage, and for the extra price paid for coal. generous calculation places this figure at \$3,000,000 Then damages is to be awarded for the loss the company in the future may sustain from the breaking of the contract, that is, in having to pay more for its coal. I suppose it is right to say if no likely future loss can be proven no damages will be awarded. That, at least, appeals to common sense. Were the contract still in force there would, as called for by the contract, be a re-adjustment of prices next June. Owing to increased rates. and cost of supplies, the arbitrators would likely place the increased cost of production This added to the \$1,24 at sixteen cents a ton. would make the price, from June next, for a term of years, \$1,40 per ton. Mr. Ross can say to the Steel company: "I will give you coal for three years for \$1,40 a ton. During these three years you can open out the coal areas you bonded. After that I will charge you a price to leave a fair profit. If Mr. Ross makes this offer then the Steel company can get no prospective damages.
Why? Because if they open up the areas they have bonded, and work them energetically, the Steel company will not be losers but gainers, from the breaking of the contract. How can it be established, to the satisfaction of the assessor, that the Steel company could produce coal, not at less than one forty, but at less than one twenty-four.
That would be easy. The Dominion Coal Co'y. That would be easy. could call to testify on its behalf, and in favor of the statement as to cost of coal, three gentlemen, the most notable in the province in their particular lines. First there is Milner of the F. C. L., who has asserted that it is a shame that coal costing a 'little' over a dollar to produce should be sold in Halifax at over four dollars.
Then Dr. Kendall, M. P. P. would be called, and would testify to the fact that in the press, in parliament and to the people, he has made the state-ment that coal could be sold at a dollar a ton and leave a profit. Just as Mr. F D. Jones, General Manager of the Dom. Iron & Steel Co. was the star witness at the first trial, so he would be star witness on the adjudication of damages.

Ex. by Mr. L. "Are you General Manager of

"Are you familiar with the methods of pro-"Thoroughly. During a portion of the year

"Did you state in 1906 that coal could be pro- the government was not to assist unless the mine duced at a dollar a ton."

"I am not sure whether I said it could be produced, or sold, at a dollar a ton, one or the other.' "If a superintendent of a mine had said to you in 1906 that coal not could be produced at a dollar what would you have said to him"?

"I would have said he l-- he was'nt up in

scientiffe mining."

"And you are still, of course, of the opinion that coal can be produced, or perhaps even sold, at a dollar"?

Ex J. N. "I object, your honor, to leading questions being put to the witness at this stage, The learned Counsel for coal is going beyond the bounds of courtly procedure."

Mr. L. Well then, I will put it-"Are you still of opinion that coal can be produced at a dollar"?

No answer

Mr. L. "Your honor, make the witness answer" His honor "Indeed I will not. He has already market of Nova Scotia: compromised the case of the Steel company badly enough by his admissions."

Ex. J. N. "Mr. Jones, when you made the as-1,739,000. That year the Americans had 28 per sertion as to dollar coal, you were not a coal proceed of the trade ducer.

"No, I was a buyer."

"There is a decided difference, is there"

"There is all the difference in the world. A buyer can do wonderful things.

amount to a row of beans, but the evidence of Mr. 41 Jones, I am sorry to say, seem to be conclusive against prospective damages for the Steel come in two years the Americans will have half of the pany." "Everybody believes Jones, and I am Quebec market. By some means, by hook or by forced to bow to public opinion." I assess the crook, this sort of business must be stopped. damages at a dollar.'

was in the hands of a receiver. The RECORD is right glad to hear that the government has changed its policy in regard to keeping the mine free from water in event of a strike as evidenced in its assistance in the case of the Strathcona mine. The RECORD is no yellow journal and takes no delight in recording failures, and therefore it is pleased to be told that the Strathcona Coal Co'y, is financially sound.

The increased imports of coal into the province of Quebec 1908 over 1906 were 1,068,526 tons. this increase the United States contributed some 700,948 tons, and Nova Scotia the comparitively small quantity of 306,000 tons, considerably less than half of the increase contributed by the U.S. Here are some more figures which show at a glance how the Americans are encroaching on the best

In 1906 the U.S. supplied the Quebec market with 674,000 tons of coal and Nova Scotia supplied

In 1907 the United States supplied 939,000 tons against 1,709,592 supplied by Nova Scotia, bringing up the American percentage of the total to 35.5 per cent,

In 1908 the U. S. supplied Quebec with 1,435,940 tons, against 2,047,638 supplied by Nova Scotia. The Assessor in giving his decision said:

"The Assessor in giving his decision said:

"The evidence of Milner and Kendall does not This again raises the American percentage to over

per cent.

If they go on increasing the supply at this rate

which we are pleased to say was incorrect. item referred to said that the Strathcona mine was in the hands of a receiver, and that the government had charge of the pumps. Mr. F. A. Mc-Cully of Moncton, one of the officials of the company, writes to say that the company is not in the hands of a receiver, is paying to the government the wages of the men at the pumps, has never been served with any process, and is sound finan-cially. The mine is being kept dry by the govern-ment to save the property, as the U. M. W. refused to allow the pumpsmen, etc. to remain at work. The RECORD was decidedly wrong in jumping to the conclusion that because the government was manning the pumps the mine was in the hands of a receiver and yet it has this to say in excuse. 1007 when the Springhill mines were on strike, Mr. Beausoil, a representative of the U. M. W. and when all the pumpmen and firemen were call-from headquarters, told a meeting at Dom. No. 6 ed out the company begged and prayed the government to take charge of the pumping and a number of miners in Cape Breton, who if they charge the cost to the company. Neither for love got turkey and pie would never work. Mr. Beaunor for money would the government comply soil struck up an acquaintance with some of the with the request. When the Mabou mine went C.B. miners in a remarkably short space of time. into the hands of a receiver the government at Though it was a random shot it may have hit the once took charge of pumping operations. The mark Why the very reason that so many are RECORD therefore came to the conclusion joining the U.M. W. is that they have been as when the government would not do the pumping sured that if they join the U.M. W. all the good where so much was at stake as in Springhill, and things of life will be theirs and of course turkey once took charge of pumping operations. did it at Mabou, a small mine, that the policy of and pie.

Says the Coal Trade Journal, an authority on An item appeared in last issue of the Record 'United States coal matters: "Our discharging The docks all the way along from Bridgeport, Conn., to Portland, Maine, are more or less full of coal especially along the Sound and very low prices are being made to get rid of it". And this is the market to which Mr. Milner of the F.C.L. asks the mine operators of Nova Scotia to cater. Mr. Milner says reciprocity would give us so big a market in the New England States that there would be no idle time in winter at the C. B. col-lieries. If the discharging ports, the ports acces-sible to Nova Scotia are full of American coal, waiting the pleasure of buyers, it does not strlke one that there would be either profit or pleasure in sending Nova Scotia coal in these directions.

-so says the Glace Bay Gazette-that there were

### Hround the Collieries.

As there is little news going at the collieries at present, except what refers to the P. W. A. and the U. M. W., and as the editor will be absent from his office for a time, this and possibly the next issue of the RECORD will contain a couple of pages less that the stated number.

That the coal trade is a little slack is evident from are here to say the fact that the Dominion Coal Co's, shipments have there is some not been so low in any January for the past eight years, while Sectias shipments, are less than in any January Pag, district. The intelligence of the birung the last four years. However, the outputs are good and will come in handy during the busy shipping seasons.

The papers say that James Boss and his friends, afleter the privy Gouncil decision was made known, instead of throwing steel on the market laid hold on every share they could eatch until now his, and his friends holdings are numerous enough to control the Steel Co.—The papers don't tell us whether he brought outright, or on margin. If the former, where did all the money come

At the opening of the last parliament the government majority was 66. At the first vote of the present parliament the government majority was 42. As Russel of East Toronto, shows signs of voting tory the actual liberal majority with the speaker is 47 and not 49 as was given out before the vote. The majority is sufficiently large for all practical purposes.

During January nearly four thousand tons of bituminous dust and over fourteen thousand tons of American bituminous coal found its way into Quebec, province, the principal receiver being Montreal. There were also 33,311 tons of Anthracite received. Just how much of this was dust is not known, therefore the actual displacement of Nova Scotia coal in the Montreal market by American, cannot correctly be given.

The fact that Premier Murray, and Deputy Commissioner of Mines Donkin, accompanied the delegation of coal operators who intercepted Mr. Fielding on his way to Ottawa, bodes well for the success of their mission, Premier Murray cannot take any chances in the matter. It is absolutely necessary that the revenue of the province be not interfeased with by any inroad of American operators in the St. Lawrence market.

It is a remarkable showing which is made in regard to the membership of the U. M. W. in the Anthracite region. Consider for a moment the value of an organization, for purposes of offense or defense, where but 18 Put it in figper cent of the employees are members. ures-30,000 out of 170,000 Probably gains will be made before April 1, but there is a long way to go, to say the least, to bring up an organization to the fighting point from such a basis as that. Granting the most favorable outcome of efforts to increase the membership at the advent of a strike, how will the Bituminous districts feel disposed toward a district that has been so poorly represented in the ranks of the national body? Will the Bituminous miners feel disposed to extend much help to a branch of their association which has maintained itself on a basis of 18 per cent, of possible membership, and consequently paid only 18 per cent, of its proportionate dues during the past two or three years?

For years the mineral resources of the province have been crying out loudly to be developed. The cry on the whole has failed to arouse general attention.

Mr. Beausoil the representative of the U. M. W. who is starting C. B. in company with Peter Paterson is not what one could call consistent in his speeches. It cells one audience that the U. M. W. won't stay here if they are not wanted, and to a second audience he shouts, "The U. M. W's are here to say."

There is some education necessary at a number of the bituminous mines in the "litaburgh Pa, district. There has been strife for a chemider able time over an order of the mine officials to discontinue the use of black powder. The menut these mines are seemingly content to take the risk. Foolish fellows.

The Montreal Witness says the Nova Scotia Steel & Coal Co. will ship enormous quantities of coal this year, and that they will extend their St. Lawrince trade. Well, the company will ship more coal this year than ever it did, but it is just possible the increase in ship ments will not permit of the word 'enormous.' If the company ship a total of three quarters of a million tons it will be doing pretty well. That would be a hundred thousand tons more than last year.

The C B. papers say the U. M. W. or some of the members of that alien society will apply for a Board of Conciliation on the ground that they are being unfairly treated. They may save themselves the bother. The Lemieux Act speaks of only two classes of workmen, union and non union. It makes no reference whatever to 'seib' unionists and very properly so. If a company were forced to recognize two unions why not half a dozen, and where would they find themselves then.

Three U. M. W. officials, Beausoil, Patterson, and McLellan, called on Mr. Duggan, Genl Manager of the Dominion Coal Co., expecting to be invited to a five or clock tea. They sent in their cards. These were returned with the information that this was not one of Duggan's receiving days. They expostulated and said they wished to talk on important business. They were then further informed that Mr. Duggan did not wish to talk with them on business, important or otherwise. The gall of Peter.

An Englishman, writing in the Herald, tells how good the unions are in the Old Country, compared with here. He evidently does not know that the miners of Nova Scotia had much beneficial legislation ahead of Britain or any other country. He thinks it is not a new thing to have dues collected in the office of the company. Why, it is the very newest. He says collectors do that work in Yorkshire, but he does not say what percentage the collectors get.

Only a small proportion of the Anthracite mine workers are in the union. According to the figures of Mr. Lewis, only 18 per cent. of the total 170.000 Anthracite employees were included in the union at the close of 1968. "Why" ask the operators, "should we make a contract, covering the wages of all our 170,000 employees, with a national organization that includes such a small percentage of these employees?"

The Anthracite operators will not make an agreement with the United Mine Workers of America, because of their contention that the union's day the wind blew with such violence of tempest. One membership is made up principally from the Bitstreets of Glasgow that I actually saw a horse blown twice to the ground. And yet throughout olis, the president of the union gave figures showing the numerical strength of his organization. The total membership was 295,000—this was for Glasgow air made me indifferent to the weather." were Anthracite workers.

So like the Socialists.-In the Free Lance's Springhill items appears the following :

lor. The Socialists received their quietus as was predicted by those who took the trouble to think over the matter. The one man elected and who proclaimed himself an adherent of that body has destroyed his chance of re-election at any future

day.

"It is singular that this coterie of socialists never took any part in any effort for the better-These men who prate so much now about benefits to their fellows held aloof from the Y. M. C. A. They threw cold water on every suggestion for entertainment, or moral reform of our boys. They sneered at any suggestion of flown inprove-ment. They opposed the plans for beautifying the monument grounds. They opposed every at-tempt to improve our miners educational system. In fact where they had to put their hands in their own pockets instead of getting them into somebody elses, they simply looked coldly on. Their stock in trade is whine, and their chief characteristic, impudence and ignorance."

The Hon. Mr. Daniels, of the local government, was over in Scotland a short time ago. Asked by a Scots-woman what he thought of her native a scots woman what he thought of her native one. In hot countries engines have been worked by Lund, Mr. Daniels did not go into raptures over solar heat, but even granting that such a process can the greatness of Glasgow, the grandness of Edinburg or the beauty of Locil Lommond and the ately, only too rare—the cost of apparatus necessary, Tessaches, The thing that explicated and enthus and again, the danger of destruction by storms, place ed Mr. Daniels was the air of Scotland. On this that source of energy practically out of the question. It sent the blood tingling in his he expatiated. he expanied. It sent the brook in the late to obtain a supply of heat-in-the form of steam by veins and made his steen light and elastic. Walk-to obtain a supply of heat-in-the form of steam by ing could not tire hum. The our out thing is that drilling a fole in the earth curve at at least term miles so few travellers refer to this fact. They speak deep. Such a project has been considered from a prac-

with the climate of Scotland and especially of Glasgow, that I must refer to. I am very susceptible to climatic influences. A few hours in some towns—and towns that are beautiful and that I love - are quite sufficient to upset my whole system and drag me down to a fit of deep physical prostration. On the other hand, there are places where I begin to feel vigorous and cheerful almost from the first moment I enter into prolonged by strict economy promoted by legislation, them. There is something exhiliarating in the air which permeates through my wholebeing. Glas-itself, together with the afforestation of the country, gow belongs to the latter rategory. Last week- and restriction of the use of machines which consume

### THE COAL SUPPLY.

Considerable interest has been taken in scientific We have a new Mayor and one new Council- and commercial quarters in the speech delivered by Sir William Ramsay at the Mansion House meeting in connection with the British Science Guild, in which he dealt with the future of the coal supply of England, Interviewed on the subject at University College, Sir William Ramsay said the report of the Royal Commission showed that the coal supply would not last more than from 500 to 800 years. The chief sources of en-ergy at the present moment were coal, oil, wood and water. Long before the coal supply became exhausted there would be a diminished production with higher prices. "So that we may expect" he continues "that within not more than 200 years or even less, the high prices of coal will render the conditions of living very The oilfields are rapidly becoming exhausted, and the whole of the available water power in Europe is estimated not to exceed two million horse power, and it is probable that in England alone 100 million horse power is being expended at the present day. Alhorse power's cening expensed at the present day. Atthough, however, a source of energy such as water is not to be despited, "it only form, a very small traction of the energy available. "The use of tides has been suggested, but the capital cost of any installation of machinery capable of extracting power from the tides and the danger of destruction by storms renders the idea of obtaining power from the tides a chimerical In hot countries engines have been worked by that source of energy practically out of the question. There are only two other possible alternatives, one is improbable that it will be. The only other source of energy which is conceivably at the disposal of the human race would rest upon some discovery of a means of exeracting energy from the other. I can only say that in the view of the best scientific opinion the possibility of such a discovery is in the highest degree remote, and should not be counted on for practical pur-It is obivous that the life of our nation can be The question of export duty on coal at once suggests gow belongs to the latter mategory. Last week- and restriction of the use of machines which consume end was an exceptionally severe specimen of the larger proportions of energy compared with the results bad weather that Scotland can supply in such at they yield. The wasteful consumption of coal for

domestic purposes, the waste of valuable nitrogenous material in the form of sewage, which ought to yield up its nitrogen, are among the problems which must confront, the Legislature at an early date, and the Science Guild would be able to offer valuable advice." Sir William urged that the present generation should exercise thought for the generations to come by conserving the stores of coal existing in England, otherwise in two hundred years he foresaw a general emigration from England to other countries and the decay of the industries dependent upon coal for their energy. Then such people as remained in the country would be compelled to revert to agriculture to obtain the means to live.—S. and Art of Mining.

The U. M. W. oganizers Beausoil, Patterson, & Co. tried to organize at Westville on Saturday evening last. Patriotic citizens froze them out of the halls and they met in a Pool room and cracked jokes with the thirty-six persons who came to take their measures. They said they would come back again when the weather is fine. "They need nt; the weather for them will always be frosty in Westville.

### CANADA'S WINTER.

(From the "Canadian Pictorial" Official Carnival Souvenier.)

Winter is not a skeleton in Canada's cupbord, a thing that must be tolerated but kept out of sight as much as possible. On the contrary we Canadians are proud of our winter, and we want the world to know it. That is why the idea of an ice palace at Montreal was taken up so heartily by the people generally, in spite of a certain amount of opposition from unexpected sources. All the world knows that Canada has a winter, but all the world does not know how the people enjoy it and how much it contributes to their health as well as their This is what the Montreal winter carnival is designed to proclaim. The Ice Palace is a thing of beauty, but not 'a joy forever' for, under the rays of the strong spring sun, the last vestige of it will speedily vanish. Canada is recognized as a favored land; in no respect is she move favored than in that of climate. There are four seasons, each of which has a charm of its own Spring is marked by beauty and a kaleidoscopic development that is really marvellous. One can almost see the grass grow, and, before one is aware of it a summer suggesting that of the tropics, but drier and infinitely less relaxing, arrives with a wealth of vegetable products that rank second to none. Next comes autumn decked in gorgeous crimson and gold, when the fruits of the earth are harvested, and barns are filled to bursting and the song of thanksgiving goes up from every heart. Then the shadows lengthen into winter, and instead of fog and rain, dampness everywhere, we have clear, dry cold that sets the blood in motion, and snow that covers our land like a mantle, hiding the unsightliness of a spent vegetation and fertilizing the soil as it can be fertilized in no other way, preparing it to be again the birthplace of such crops as are the wonder and admiration and envy of the world. If our winters were more open Nature would not have the complete rest that is necessary for the quick growth that we look for in the summer, and so we welcome the steady winter, and when the snow lies deep and the myriad flakes are packed close, say, with satisfaction, 'This is a good old fashioned winter.' and look with confidence for record crops during the coming summer,

# Triestleys Mohairs

\_\_ and \_\_\_

## Lustres

WILL NOT COUKLE

Best for \_\_\_\_

SPRING AND SUMMER SHIRT WAIST SUITS. All Ladies who wish to look well wear **Priestleys Dress Goods**. Greenshields Limited, Sole Agents.

## BRATTICE CLOTH TARRED AIRPROOF

ALSO

FIRE-PROOF.

-0000-

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

## PROMPT DELIVERIES.

DRUMMOND, MCCALL & CO.

MONTREAL and LONDONDERRY, N. S.



### Synopsis of Caradian North-West.

### Homestead Regulations.

A NY even numbered section of Dominion Lands in Manitoba or she Northwest Province, accepting is and 35, not reserved, may be homesteaded
by any prime the sole head of a family, or main over it is years o age, to she
Application for entry must be made in person by the applicant at a Dominion Lands Agency or Sub-agency for the district in which the land is situate.

Bairy by proxy may, however, to made at an Agency on certain conditions
chaded. Such a conduction of the condu

by the father, nother, on, daughter, brother or sister of an intenuing none-steader, steader, steader,

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

entry.

entry.

entry.

entry.

entry.

entry.

entry.

entry.

entry.

A homesteader whose entry is not the subject of cancellation proceedings may, subject to the approval of bepartment, relinquish it in favor of fathers, and the subject to the approval of Department, relinquish it in favor of fathers, and the subject to the approval of Department, relinquish it in flavor of fathers, and the subject of the

W. W. CORY,

SYNOPSIS OF CANADIAN NORTH-WEST [MINING REGULATIONS.

COAL. Coal lands may be purchased at \$10 per are for soft coal and \$20 for antiractie. Not more than \$20 acres can be acquired by one individual or company. Royally at the rate of ten entire per not \$200 per not shall be colected on the gross output.

et al. Coal shall be colected on the gross output.

A five miner for an ind visual, and from \$60 to \$100 per annum for a company according to capital.

A five miner, having discovered mineral in place, may locate a claim \$160 to \$100 per annum for a contract of \$200 per annum for \$200 per an

The patent province for the payarent of feet square; entry fee \$5 renew-

These mining claims generally are 100 feet square; entry fee \$5 renewable yearly.

Are miner may obtain two leases to dredge for gold of free miles e. of for a term of twenty years, renewable at the discretion of the Minister of health of the state of the state of the state of the state for each fire miles. A feeting fire manum for each mile of river leased. Royally at the rate of 21-2 per cent collected on the output after it secceed \$10.00.

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

### Miners Wanted TolChew BULL DOG TOBACCI

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 ENQUIRLES AS TO PRICE AND QUALITY.

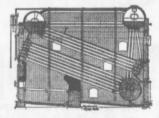
Works -SYLVESTER

Head outed-STELLARTON.

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

### ROBB-MUMFORD

### WATER TUBE BOILERS



FREE EXPANSION OF TUBES. PERFECT WATER CIRCULATION. DRY OR SUPERHEATED STEAM HALF THE USUAL NUMBER OF HANDHOLES.

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

## CURTIS'S & HARVEY, LTD.

Manufacturers of all Descriptions of

# ...EXPLOSIVES ...

BEST QUALITY ONLY.

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

PERMITTED EXPLOSIVES.

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

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

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

Supplies of all Explosives to be obtained from

Agents for Nova Scotia AUSTEN BROS., Halifax

Contractors to Admiralty and War Office, also Colonial Governments.

# ALLAN, WHYTE & C'O'Y

Clyde Patent Wire Rope Works,

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

# Wire Ropes Winding & Haulage in Collieries and Mines.

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

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

Agents in Nova Scotia:-Wm. Stairs, Son and Morrow, Limited.

Agents in New Brunswick:-W. H. Thorne & Co, Ltd., Saint John.

-Different Sizes and Qualities kept in Stock-

## WIRE ROPE GREENLING

All Kinds and Sizes and for all purposes.

Standard and Lang's Patent Lay. Prompt Shipments.

Rope Fittings.

Rope Grease.

THE B. GREENING WIRE COMPANY, LIM HAMILTON, ONT. MONTREAL, OUE.

Prices Right.

CANADA FOR THE CANADIANS!

"DOMINION" For Everybody.

The DOMINION ROPE

CO., Ltd., Montreal

## NESS IMPERIA

INVERNESS RAILWAY and COAL COY. Inverness, Cape Breton.

Miners and Shippers of INVERNESS (BROAD COVE)

Screened, RunsofsMine Slack. -First Class both for Domestic and Steam Purposes .-

Shipping facilities of COAL Shipping facilities of the most modern type 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. 26, Taking effect at 1 a. m OCT IITH., 1908.

EASTBOUND Read Down				WESTBOUND				
		STATIONS.	Read Up					
No. 52 a. m	No. 54 p m	D.III.IONDI	3	vo. 51	N	o I		
L 10 45 8 10 81 A 11 19	L 3 50 8 8 55 A 4 08 L 4 15 S 4 38 F 4 50 S 5 65 A 5 33 S 5 53 S 6 16 S 6 28 S 6 62 S 7 02 A 7 15 P m	P. TUPFEL JUNCTION PORT HAW KESBURY PORT HAS KESBURY PORT HASTINGS TROY. CREGIONISH CHICAGE CH	ASLAFSFSFLASSYFBL	10 35 10 27 10 07 10 02 9 52 8 48 8 32 8 27 8 10 7 40 7 15 7 02 6 45 8 m	18	333	36 29 10	

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

# Miners of the

Burns and Works like Ritur

Looks and Lasts Like Anthracite:

IT HAS NO EQUAL.

Mines, Piers and General Offices MABOU. CAPE BRETON.

# North Atlantic Collieries,

-LIMITED.

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

Miners and Cow Bay Basin Coals.

EXCELLENT FUEL FOR

Domestic, Steamship———and Railway Use.

Recent analysis of the coals in several of the seams in this Basin—which will be persistently developed—show them to be remarkably low in ash and sulphur.

All modern appliances for Screening and picking, so that this coal can be shipped more than "reasonably free from stone and shale,"

Loading Piers at Port Morien C. B. Quick Dispatch

Head Office, Halifax, N. S.

Mines Office, Port Morien, C. B.

# Babcock & Wilcox, Limited.

PATENT WATER TUBE BOILERS.

Over 7,000,000 H. P. in use, Fired with all kinds of Fuel

Steam Superheaters, Feed Water Heaters, Mechanical Stokers, Coal Conveyors, Steel Chimneys, Water Softeners and Purifiers, Electric Cranes, Piping.

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.

135 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 Dominion Coal Company.

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

BUILT BY

CANADIAN RAND CO., LIMITED.

MONTREAL. HALIFAX. TORONTO. WINNIPEG, ROSSLAND. VANCOUVER

# BOILER INSPECTION & INSURANCE CO.

OF CANADA.

(COMMENCED BUSINESS 1875.)
Head Office: Continental Life Building, Toronto.

Issues Policies of Insurance after a careful Inspection of the Boilers, Covering

ALL LOSS OR DAMAGE TO PROPERTY

and Loss resulting from

LOSS OF LIFE AND INJURY TO PERSON,

caused by STEAM BOILER EXPLOSIONS.

ASSETS FOR THE SECURITY OF POLICYHOLDERS, \$4,244,438.53

JOHN L. BLAIKIE, President. H. N. ROBERTS, Vice-President.

A. M. BONNYMAN, Inspector, Amherst, N. S.
AGENTS :---FAULKNER & CO., Halifax, N. S.
R. W. W. FRIÑK, St. John, N. B.

A. M. CROFTON, Sydney, C. B.

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

### "REDSTONE SHEET PACKING,

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

### RUBBER BELTING For Trans

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 Month al, Winnipeg and Vancouver

Head offices, 47 fonge Street, Toronto

MINING RECORD

### Acadia Coal STELLARTON, NOVA SCOTIA.

Miners and Shippers of the

CELEBRATED

SHIPPING PORT: PICTOU LANDING.

Unexcelled for Steam. Domestic and General Purposes. DELIVERED BY RAIL OR WATER.

Quotations Furnished Promptly on Application.

and Shippers of

**JOGGINS** 

High Grade Steam

-AND-

Domestic

Unexcelled for General Use.

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

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

New Clasgow, 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,

CORRESPONDENCE SOLICITED Estimates Cheerfully Given.

# DRUMMOND

COAL

High Grade Fuel for Steam, Domestic and General Purposes.

COKE

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

FIRECLAY

of Fine Quality

FIREBRICK

Better than Scotch seconds for Ladle lining etc.

SHIPMENTS BY RAIL OR WATER.

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

HAPPELD'S Foundry Co., SHEFFIELD



PERFECT GYRATORY STONE CRUSHER



CAST STEEL BRONZE BUSHED. SELF OIL.NG

WHEELS & AXLES

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.

## MARITIME MINING RECORD.

### 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 | a patron of The Record.

## 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 Draw Bars
————————For Mine Cars, A SPECIALTY.

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

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





Draw Bar for Coal Car.

Edge & Sons, Limited,

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

# DOMINION COAL COMPANY, LIMITED.

Miners and Shippers of the Celebrated

# "DOMINION STEAM COAL,"

Gas Coal and Coal for Household Use

from the well known seams

'Emery.' 'Phalen,' 'Harbour.' 'Victoria' and 'Hub.'

Collieries in Operation.

OUTPUT: 3.500,000 tons Yearly

Used by Railways, Tramways, Steamships, Manufacturers, Water Works, Light and Power Stations in Ontario, Quebec and the Maritime Provinces, also in Newfoundland and the New England States, Mexico, Sweden, South Africa and the West Indies.

### Shipping Piers equipped with modern machinery, ensuring Quickest despatch

SYDNEY, LOUISBURG, and GLACE BAY

Cape Breton Island, Nova Scotia, Canada.

7000 ton Steamers Loaded in 7 hours.



Special facilities for loading and prompt despatch given to sailing vessels and small craft. Box Car Loaders for shipments to inland points. Discharging Plants at Montreal, P. Q., Three Rivers, P. Q., Quebec, St. John, N. B. and Halifax, N. S., Capacity up to 1000 tons per Hour.



BUNKER COAL. The Dominion Coal Co. has unsurpassed facilities for Bunkering Ocean going steamers the year round. Steamers of any size promptly loaded and bunkered.

IMPROVED SCREENING FACILITIES at the Collieries for the production of Lump

Coal of superior quality for Domestic trade and Household Use.

FOR TERMS, PRICES, ETC., APPLY TO

Dominion Coal Co., Limited,

Glace Bay, Nova Scotia. 112 St. James St., Montreal, P. Q. 171 Lower Water Street, Halifax, N. S. Quebec, P. Q.

AND FROM THE FOLLOWING AGENTS: R. P. & W. F. Starr, St. John, N. B. Peak Bros. & Co., Charlottetown, P. E. I.

Harvey & Company, St. John's Nfld, Hull, Blyth & Co., 4 Fenchurch Avu., London, E.C.

G. H. Duggan,

Alexander Dick, General Sales Agent.

2nd.Vice-President. and Gen'l Manager. GENERAL OFFICES, GLACE BAY, NOVA SCOTIA, CANADA.

## 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

\*  $\dots$   $ANALYSIS\dots$ NO 1 NO 2 NO 3 Moisture.....2.02 % 2.71% Volatile combustible matter 18.94% 27.93 % 28.41% Fixed Carbon. ..... 75.29 % 64.69 % 3.19 % 4.19 % 100.00 100.00 100.00 Sulphur..... 1.15 % 58% .79 %

BEST COAL FOR

Delivered By Rail or Water

BEST COAL FOR
GENERAL STEAM PURPOSES

The year Round

MESTIC CONSUMPTION

BEST GAS COAL

Mined in the Province.

Mines\_\_\_\_

SPRINGHILL

N. S.

Head Office-

MONTREAL