

Cumberland.

\* Pictou.

Cape Breton. \*

Inverness

New Series Vol. 12 No. 2

July 28th. 1909

STELLARTON, N. S.

我知道你我們可能沒有便可能看得可能亦在那一個都不管可能在你可能不同心也不会以不可能學

# To Have and to Hold Your Business

IS OUR GREATEST DESIRE.

We have a modern plant for the production of High Class Mining Appliances, and the following are a few of our WIDELY KNOWN PRODUCTS:

"Speedy" Coal Boring Machines, "Acme" Rachet Rock Boring Machines, Miners' Tools, Copper Headed Stemmers, Copper Pointed Needles, Miners' Picks, Mauls, Wedges, etc.

J. W. CUMMING & SON NEW GLASGOW N.S.

我學者等我如此如此如此如此不敢如此可以我如此可以以此以為此所以為此所以我以為以此以我也可以我

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

Telegraphic Address, Latch, Haymills

# LATCH & BATCHELOR, L'1'd.

WEBSTER & HORSFALL,

(ESTABLISHED 1730.)

Works: HAYMILLS, BIRMINGHAM, ENGLAND.

AGENT: H. M. WYLDE.

P O Box, 529

HALIFAX N. S.

...... Patentees and Manufacturers of

## Locked Coil and Flattened Strand WIRE ROPES.

Manufacturers of all Kinds of WIRE RCPES 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









Lang's Lay or ordinary Patent Flattened Strand Winding or Hauling, Patent Flattened Strand, (non spinning)

DRAWERS OF RIGH CLASS STEEL-WIRE,

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

# AGADIA POWDER GO., LID.

## YNAM

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

FLAMELESS EXPLOSIVES 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.

OFFICE: -76 and 78-

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



Westinghouse Motor, Driving Mine Hoist.

### Westinahouse **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

Office and Works, Hamilton, Ont.

Traders Bank Bidg., Toronto. 232 St. James Street Montre 469 Pender 21, Vancouver. 158 Granville St. Halifax. 923—923 Union Bank Bidg., Winnipeg.



Herzler & Henninger Mach. Works Manufacturers of

H. & H. Coal Cutters & Tornado Coal Drills Belle /ille, ILL., U. S. A.

## MINING SHOVELS

our 'FENERTY' Brand

COOK'S PAN SHOVELS.

COAL TRIMMERS SHOVELS.

SCRAPER SHOVELS, ETC.

-ARE USED BY-

### Che Largest Mines in Canada

MANUFACTURED BY

The HALIFAX SHOVEL Co.

HALIFAX, N. S.

ALL GOODS GUARANTEED

Genuine Garlock Parkings FOR ALL PURPOSES.

## Pipe and Boiler Coverings, ENGINEERS SUPPLIES.

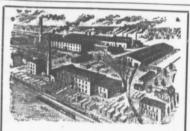
"Tauril" High Pressure Jointing the Best Sheet Packing yet Produced.

## HAMILTON, ONTARIO

Used by Collieries in Lancashire, Staffordshire & Yorkshire

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

E. WOLASTON, Dutton St. MANGHESTER Sole Representatives for Canada, Austen Bros., Halifax, N. S.



RAILWAY STREET and MINING

CAR WHEELS CASTINGS

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

Rhodes. Curry & Co., Ltd.

BUILDING MATERIALS GENERAL.

AMMERST N. S

### OCEAN LIMITED

(Canada's Summer Train)

leaves STELLARTON 7.40 a.m.

daily except Sunday,

arrives MONTREAL 7.35 a. m.

daily except Monday.

Through Wentworth and Matapedia Valleys in Daylight.

Connecting in Montreal, Bonav. ature Union Depot. -with the --

Grand Trunk Railway's

INTERNATIONAL LIMITED.

LEAVING MUNTREAL 9 00 A. M. ARRIVING TORONTO 4,30 P. M. and for

Detroit, Chicago and the West

## 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 Manganese Steel Castings for

oing Plants | MINING PURPOSES,
Point St. Charles, " " Montreal, Canada,

ESTABLISHED 1863.

## Philips Mine & Mill Supply Co.

PITTSBURG PA.

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

SCREENS, SCREEN BARS, SCREENING PLANTS COMHLETE,

CAR DUMPS, CARS, CAR WHEELS, LARRY WAGGONS, HITCHINGS, ETC. LET US SUBMIT PLANS AND ESTIMATES.

-MANUFACTURERS OF .-

Coal and Coke Works Equipment.

## COLLIERY SUPPLIES.

Wrought Iron Pipe. Cast Iron Fittings.
Brass and Iron Valves, Steam, Water and Suction Hose,
Metals of all kinds. Boiler Plates and Tubes.
Fire Brick. Portland Cement. Fuse and Detonators.

Nova Scotia Agents for

Alian, Whyte & Company's Wire Ropes. WM. STAIRS, SON & MORROW, LIMITED.

Halifax, Nova Scotia.

# \* NOVA SCOTIA STEEL & COAL COMPANY,

LIMITED,

MANUFACTURERSOF





MERCHANT BARS,

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

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.

Che Best Fouse Coal.

The Best Steam Cor

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. | coessessessessesses + coessessessessessessessessessessesses

#### "VITITE"

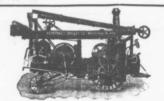
#### COMPRESSED HICH PRESSURE STEAM PACKING

- "Vitite" Packing is a Compressed Asbestos sheeting especially treated. It makes an ideal flange and manhole joint and a trial will be a revelation to you.
- "Vitite" Packing resists highest steam pressure and superheated steam, and is unexceiled as a flange packing for Steam, Hydraulic, Gas Engine, Acid, Ammonia and other joints.
- "Visite" Packing insures greatest reliability against pressure and stretching and will not become hard in the joint.
- " Vitite " Packing is supplied in sheets 48 inches square, 1-32, 1-16 and 1-8 inch thick.

SAMPLES AND PRICES ON REQUEST.

T. MCAVITY & SONS, LIMITED.

ST. JOHN, N. B.



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

It can be used in connection with any god "churn" drill, but operates best on the long-stroke KEYSTONE, thus making the changest and quickest method of wring to be found.

In operation a hole is sunk to the coal with the ordinary Rock litt. The But and Stem are then removed and the Coring Attachment put on in their place. It takes a 4 ft. core out of the Soft-sta as well as the Hardest part on the vein. Avaids all delay and expense of "rods" water wash, diamonds, shot, and heavy operatum mechanism.

#### Price of Complete Attachment \$200,00

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

Keystone Driller Co. Beaver Falls, Pa.

#### Mining & Mill Supplies.

Valves, Fittings, Packing,



Steam Goods of every-Description.

Angles, Tees, etc. SOLID DIE RIVETS.

Boiler Tubes.

Steel

Plates,

#### Iron Pipe for

Mining Purposes.

-Catalogues and Prices on Application.

## THOMAS ROBERTSON & CO,

MONTREAL, QUE.

## Jeanesville Pumps



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

Are Reliable, Efficient, and Substantial, Because almost Fifty Years Experience Stands back of Every Machine. Fol-

lowing 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.



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

Iron, Copper, Lead, Etc.

Titles direct from the Crown

-At Mcderate Royalties.

# GOLD AND

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

# 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

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

on con is in reportion
minerals in proportion
The Gold District covers over three thousand square miles, and the deposits of coal iron ore, etc., are practically unlimited.

FOR INFORMATION APPLY TO-

# CHRISTOPHER CHISHOLM

Commissioner of Public Works and Mines! Halifax [N]  $J_j^*$ 

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

the 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.

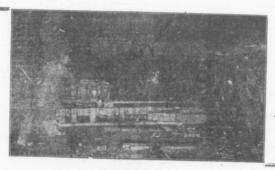
Direct connection with the I. C. R.

Colliery

RIVER HEBERT, N. S.

Mine Manager:—HY, McCARTHER, Geo, H. Bisset, See'y, Treasurer.

Business Manager, R. S. HIBBARD, River Hebert, N. S. Head Office, 212 St. James Street, Montreal,



### JEFFREY COAL MINE EQUIPMENT

INCLUDES

Air Power and Electric

Coall Cutting Machines and Drills.

Main Haulage, Cathering and Crab Locomotives,

Car Hauls, Coal Tippies, Screens, Crushers, Pulverizers, Conveyers,

Elevators, Ccal Westerics, Cages, Hoists, Fans, Pumps, Etc.

Write for Catalog, Scries 1 b, and mention subjects in which you are interested

#### The Jeffrey Manufacturing Company, Columbus, Ohio.

New York. Charleston, W. Va. Chicago. St. Locis.

Knoxville, Denver, Poeton. Montreal, Can Pittsburg Buffalo.

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

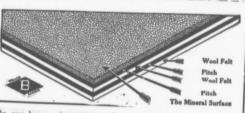
BRIDGES

STEEL BUILDINGS

ELECTRIC & HAND POWER CRANES Structural METAL WORK of all kinds

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

# Amatite ROOFING



Most roofings are made of only one layer but Amatite is made in Five Layers. The bottom layer is wool felt, the next is real Coal Tar Pitch, the third is wool felt, the fourth is pitch again, into which is embedded the fifth layer, namely, the Mineral Surface.

If the weather should, in the course of years wear away the mineral surface and dispose of the layer of Pitch (which is the most waterproof substance on earth), it would still

have to penetrate a layer of felt and another layer of composition and another layer of felt before the roof would leak.

It is easy to see why Amatite lasts so long when you realize how it is made.

That mineral surface requires no painting or coating whr tever, and will take the brunt of the weather without renewal or attention or care

Send for a sample of Amatite. It's free.

## The Carritte-Patterson Manufacturing Co., Limited

ST. JOHN, N. B., HALIFAX, N. S.

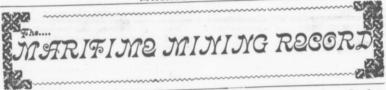
The Mark to Look For if You Want

0 0 0 0 0 0 0 0 0



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

0 0 0 0 0 0 0 0 0



**New Series** JULY 28 1909. Stellarton, N. S., Vol. 12, No. 2.

#### NOVA SCOTIA EXAMINATIONS, 1909.

#### UNDERGROUND MANAGERS.

- SURVEY .-

#### Time-Two and a half hours.

1.-What precautions would you take to avoid errors through the variation of the magnetic meridian?

2.—In making a loose needle survey underground,

what particular precautions would you take?

3.—The bearing of a line in N. 27 deg. 50 min. E.
An angle of 82 deg. 20 min. is turned to the right, what is the bearing?

4.—Describe how you would book an underground

5.—Plot the following to a scale of 1" = 100 ft , closing the plot by protractor and scale; give closing course and distance

N. 31° 00' E., 120 feet. S. 68° 00' E., 258 feet, S· 14° 00′ W., 164 feet. N. 76° 00′ W., 207 feet.

#### -VENTILATION.-

#### Time-Three Hours,

1-A fan going at 40 revolutions per minute is producing 80,000 cubic feet of air per minute, with a water guage of 2". If the speed of fan is increased to 60 revolutions, what will be the quantity of air, and the water guage, after change

2-How would you proceed to increase the air current by half without altering the size of the airway? How much will the water guage be increased to produce the above current ?

3-What is the H. P. of a furnace producing 180,-000 cubic feet of air per minute temperature of downcast 41° and upcast 141°, both shafts 1200 feet deep, borometer reading 31 inches midway down each shaft.

5-How would you examine a safety lamp to see expenses \$13. How many days must be work to buy passing in a district?

that it is in perfect order? Mention all the parts a suit of clothes worth \$40 1/5? which are likely to be out of order, of a !amp with

a piace for gas, CH<sub>2</sub>. What is the smallest proportion that will show a cap on safety lamp. At what proportions does it explode in a safety lamp, and at what proportion will CH<sub>2</sub> extinguish a light.

And what is the lowest percentage of the cap is a cap of safety lamp. At the cap is cap is cap is cap is cap is cap in the cap is cap is

in which you deem it safe to carry on blasting.

7-Plan to ventilate.

8-How does the steam jet act in producing a current of air? Does it signify where the steam jets are placed in the upcast shatt?

How is it that the steam jet is not more frequently used in the ventilation of coal mines at the present

#### -MODES OF WORK .-

#### Time-Three Hours

1—State fully your experience in mines and mining, giving in detail in what occupations such experience has been gained; also in what capacities you have been employed in different countries or districts.

(Note :- It is important that candidates answer the

above question as fully as possible.)

2—Show by sketch how you would keep a line on the faces of a section of pillar workings with respect to the strike of the strate.

3.—What do you consider usually causes creeps in mines, and how would you proceed to lessen the effect of a creep which had started in a section of a mine

pitching 1 in 10?
4—What instructions would you give to an employee, unfamiliar with the work, who has been put in charge of a gravity haulage?

5-What course would you pursue with new men in working faces where fire damp may be expected, and where safety lamps and explosives are used?

6-Describe and sketch a main hauling road, 8 ft. by 6 ft., soft roof, hard pavement. Mark and sketch size of timbers to be used.

#### -SCHOLARSHIP .-

#### Time-Three Hours.

1—What is the value of a rectangle field 80 rods

4-How would you ascertain the quantity of air long, 60 rods wide, at \$15.00 per acre? 2-A man's wages is \$3 4/5 a day and his daily

> 3-State and explain the rule for reducing a vulgar . fraction to a decimal fraction. Show sample.

And what is the lowest percentage of explosive gas, it in 15 hours. In what time can both, working to-

gether, do it?

stroke when the plunger is 15" in diameter and the stroke 9 feet ?

8— v.½. 9 —Divide .7834 by .03.

#### OVERMAN.

-VENTILATION .-

Time-Three Hours.

1-What amount of air per minute should be in circulation in a mine employing 350 men?

2-If the quantity of air circulating in a mine is 30,000 cubic ft. and pressure is 8 lbs., what is the water guage?

3—Describe how natural ventilation may occur in a mine, and how would you start a current of air mov- degrees from the horizontal, are any corrections necesing in two shafts of equal depths, density of air in the sary before plotting?

-State what you know about fire damp, and subjected to in surveys of coal mines? method of detecting its presence.

5-Describe an anemometer, and explain what it is used for showing by a sketch, or example, your explan-

6-How would you examine a safety lamp, to ascertain its safety before entering a place likely to con-

7-Is the pressure or the velocity of an air current the most important factor in mine ventilation?

9-What do you mean by the area of the section of an airway and what is the rubbing surface per sq. foot of section of an airway 7 ft. high 11 ft. wide and

#### -MODES OF WORK .-

#### Time-Three Hours.

1-State fully your experience in mines and min-ing, giving in detail in what occupations such experlence has been gained; also in what capacities you have how many days can 13 men do the same work?

(Note:-It is important that candidates answer the above question as fully as possible.)

2-What are the duties of an overman?

3-When would you consider that a working face is properly mined where explosives are used in win. marine areas.

4-If you have had no actual experience, give your impressions as to how gob fires can be dealt with?

5-In a seam pitching twenty (20) degrees from the horizontal, what instructions would you give as to placing timbers in working, 10 feet wide by 8 ft, high; roof, strong shales, and bottom, hard?

(a)-In workings on strike.

(b)-In workings on dip 6-What course would you pursue it you found

7-What examination would you make in a place approaching abandoned workings where noxious gases or water might be encountered?

7.—How many gallons will a pump throw at a respect to output which should receive your attention? 9-Give in detail the mode you would adopt in

shooting coal from the face of a narrow heading. Describe appliances used ? 10. (a) -Describe how you would put up running

or collar booms, and their use? (b)-If the weight on a row of timber becams too heavy, how would you proceed to trip the timber in order to let in the roof, in workmanlike manner?

#### -SURVEYING .-

1.--What instruments are generally used in mine surveys?

2-What are the purposes of-

(a) Mine surveys? (b) Mine maps?

4-What influences are magnetic needles generally

5-What kind of lamp would you use in making-

(a) Loo e needle survey ?

#### (b) Fast needle survey

#### -SCHOLARSHIP -

1-Multiply .56 x 234.

2-A man bought a quantity of coal for \$2,50 and by retailing it at \$5.75 a ton he gained \$37,00, how many tons did he buy?

3-Add 1/2, 1/5, 1/6, 3/4.

4-It a man travels 7 miles 139 rods 3 yards in one day, how far will he travel in 30 days?

5-A place is full of water, it is 125 feet long, 15 feet wide, 8 feet deep, what weight of water does it contain, say a cubic ft of water weighs 621 lbs.

6-Reduce 288/864 to its lowest term.

7—How many long tons in a pillar of coal 125 feet long, 61/5 feet high and 30 feet wide, say one cubic ft. of solid coal weighs 80 lb.

8-If 25 men can do a piece of work in 40 days, in

#### - MINES ACT .-

1-State the law respecting the working of sub-

2- What are the manager's duties?

3-What is the law on the subject of outlet for miners ?

4-What machines and signals are required for travelling planes worked by machinery?

5 - State the matters that the Inspector must be notified of.

6—State and define the object of the special rules and their power.

miners at work in a place where fire-damp had devel. ground managers, overmen, shot firers and examiners, oned after Examinars had examiners. 8-What examinations are required when it is necessary to work a mine with safety lamps?

9-State what the general rules require as to ventilation.

#### MARITIME MINING RECORD.

The MARITIME MINING RECORD is pablished the second and ourth 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 . Subscription \$1.00 a year. Single Copies 5 cents

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

THE POST AND UNITED LABOR.

In the contract between the Dom. Coal and Dom. Steel Co there was a strike clause; in the contract now being negotiated there will be a similar clause.

We wonder, The Post has at last found its feet-on the C.

B labor question. Whatever the inspection, and however late of

coming, the Post is to be congratulated.

Still there may be excuses for those who wonder how the Post could have remained so long in a somnolent state.

The Post having spoken out it will be wholly unnecessary for the Record to make further defence of its attitude towards the two labor societies. Every patriotic paper should have shown the U. M. W's scant courtesy, if 'no quarter' might have been too drastic.

If the Post was waiting on the Record, and the Record on the Post, then the latter gets the medal as being the first to take its courage in

both hands.

In the following article the Post talks sense. The matter is as clearly and as forcibly-if not quite with so much fire—as the Mining Record could have put it. This is equivalent to saying the article is worth reproduction and worth read-

"The present labor situation in Cape Breton has unfortunately reached a point where it is being watched by the public with a feeling of un-

easiness and apprehensica.

The immediate cause of trouble is the variance Dom. Coal Coy., but the radical trouble lies in the labor and which has finally culminated in the es-

recognition of their several rights and obligations. the colliery?

which unionism stands among the miners of Cape 1886) before increasing the royalty. Breton there must be no division in the ranks.

The question of how much strength has been developed by affiliation of a part of the miners of Cape Breton with the United Mine Workers is open for discussion. While there has been and still is a large and free intercourse between the people of the United States and Canada there has been ever maintained by the Republic an intense commercial hostility towards this country which was never more marked and accentuated than it has been during the present revision of the tariff. The question is, can two countries each extremely commercially and industrially hostile to each other co-operate to mutual advantage? has grown up and become strong in spite of the exclusion policy of the United States and our com mercial and industrial future does not look to the Republic for any assistance because none will be sought.

On the other hand a labor union Canadian in origin and sentiment offers the highest possibilities of effective usefulness for the miners of this province. In order to effect such a condition it will be necessary to remove the causes that have led to the disruption of labor unionism in this island. There are plenty of men who have the intelligence, firmness and business ability to promote a solid all-Canadian union which would be more powerful and effective for good to all concerned than the present divided condition of the labor forces. The culmination of the present difficulty in either the victory or defeat of the Unit-ed Mine Workers or the P. W. A. will not settle the question. There will be days beyond those that are being counted in this passing year and there is an industrial future to this island that requires the intelligence and sympathetic co-operation of both capital and labor. In the process of reconstruction there are some men who should realize that their retirement is in the interest of the restoration of pacific conditions. Feelings, however warm, are of a transitory nature, but a settled policy supported and lived up to will bring forth good results."

#### CONCERNING COAL ROYALTIES.

The Halifax Herald being 'agin' the government, is for that reason, so it considers, bound in season and out of season, to find fault with anything and everything it ever has done, or even thought of doing. Recently, in the increased between a branch of organized labor and the royalty on coal, as compared with what the roydivision and hostility that exists in the ranks of it has found a new cause for complaint. It is now vehement in its denunciation of the local governtablishment of two organizations which are en. ment for having increased the royalty on coal in tirely out of joint and out of harmony with each 1892, and previously and subsequently. It is other.

Scarcely to be expected that the Herald would be It is too late in the day to call in question the quite candid. If candour won't fit in with its benefits or the utility of unionism. It is conced- argument then candour must go. Its statement ed by all whose opinions are worth considering as to the increase in royalties is not a full statethat organized labor is in the interest of the work- ment. Why was there, as it alleges, no royalty ingman and in the interest of capital. It has on slack. On what coal is royalty paid, on the brought both within reach of mutual co-operation coal raised to the surface or on the coal sent from Why did the conservatives not To be effective labor must be united. It is raise the royalty between 1878 and 1882, and why quite clear that to attain the aims and objects for did the liberals wait until 1885 (was it not actually Was there not a question as to the validity of an increase in

view of the wording of some of the leases. The the increased taxation, about which the Govern-Herald, regardless of consistency accuses the Libment organ has the folly to boast, and monopoly or trust rates due to that Government having faveral government for having increased the royalty increase it says of 66 per cent—robbery and extortion. Whereas in 1893 it denounced the government for having made large concessions to the coal company for a miserable 12 1-2c, per ton.

In the article referred to the Herald sapiently, yet superfluously says :- "It is also universally known that every dollar of this increased taxation through increased coal royalties has fallen upon

This is a fact that must never be lost sight of

The Herald has made an important discovery run through the entire catalogue, and point out in either federal or local affairs, a single item of income that does not come directly or indirectly out of the pockets of the people. The Herald has surely seen the picture of the soldier, the bishop and the workingman -representing the people at large, with the legends written underneath, "I fight for all,' 'I pray for all,' 'I PAY for all.

It is a little surprising that the Herald, claiming to be endowed with a little intelligence should ill, direct taxation would be the sure death of it. have been carried away by the false doctrine of the Free Coal League, and other, equally ill in

formed, of its correspondents. Says the Herald : "It is true that all the coal upon which the new rates Royalty are paid is not consumed in this Province, and, hence it might with some show of reason, be contended that part of the Coal Royalties are ultimately paid by the consum-ers of this coal abroad, in other Provinces or

But the contention would be false, because it free trader,

exported by the Dominion Coal Co., and by the Nova Scotia Steel and Coal Co., to name no others. is a incomparably more profitable trade than that done by them in the provinces. One of the railways is taking from the Dom. Coal Co this year, the large quantity of 350,000 tons. The price is, of course much less than a Halifax contract of 5000 tons would be, but the Herald can be assured of this, that if it can produce a customer in Halifax, that will buy not 350,000, but 200,000 tons and take quick delivery—that is within six months, he will not only get his coal as cheap as the rail-

The Herald, baving a job office, ought to know something of the part quantity plays in fixing prices. For instance for 100 dodges it would charge at the least fifty cents, whereas for a thousand it would not charge more than two fifty or twenty five cents a hundred, a diffence of fifty that all law is restraint.

ored the creation of one Coal Company sufficiently powerful to dictate terms to all others.

It need hardly be mentioned that one of the serious results of the high price of coal in this Province, through the Liberal Government's legislation increasing taxation and favoring mono-poly, is the heavy handicap it places on all man-

the people of this Province, and been taken out known the far reaching effects the increased roy ner of manufacturing industry in the Province."

It is quite possible had the liberal government in considering this matter of coal Royalties and Europe the cost of coal has increased, all tracealty was to have over all the world they would have paused. In every coal producing country in that of a mare's nest. Will the Herald please only in the U.S. do manufacting industries get able, no doubt to the increase in royalty. In cheaper coal than in N.S., and yet Germany with its dearer coal, and Britain too, yes, and the province of Quebec are making rapid invince of queece are making rapid in-dustrial progess. Will the Herald say how the province would have raised revenue for roads, bridges, agriculture, education, railway, steamship and other services, but for increased royalty.

## - Rubs by Rambler.

But the contention would be raise, because it free traier, that is as much as to say what it where is an indisputable fact that the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million to the coal that is ex- are two million grown up people in Canada, one million grown up people grown up people grown up Every man, woman and child, almost, is at heart a ported to other Provinces or countries is sold at nine hundred and ninety thousand have a desire to such low prices as to afford no profit worth speak. snuggle. By ho k and by crook they try to dodge such low prices as to anoru no pront worth speak. snuggle. Dy no k and by crook they try to douge ing of, or so little profit that, practically, all the the customs officials and evade customs duties. There Another paid by our coar companies have to be is scarcely a passenger entering a United States port paid out of the profits taken by them out of the who does not make the declaration 'Nothing for duty,' There is scarcely a passenger entering Canada but tries to smuggle something in, and for that purpose resorts to every imaginable device. The tariff is responsible for infinitely more perjury than a prohibitory liquor law, the desire is to smuggle, -- in plain English-and yet the law against smuggling is very stringent. Seeing that law does not prevent smuggling, seeing it leads to an awful amount of perjury, should it not be abrogated. Very few will be rash enough to say that it should. Do you say the cases are not parallel, well, show how not. There is no such thing as liberty of the subject in matters affecting the welfare of the community. A person with a contagious disease and the persons living in a house where there is an infected person have the desire to roam about, but the law prohibits them. They are restrained for the good of the community. And is not liquor selling a worse moral yes and physical pestilence than small pox, Not to follow this phrase of the subject further it may be said

The Herald caps the climax in the following Did not one know you to be an inoffensive temperance The Heraid caps the climax in the following Did not one know you to be an inducensive temperance paragraph:—"The prevailing high prices is due to man he would almost be justified in concluding that itionist who had arrived at that state suggested in the ory; the desire to commit the offences mentioned in

"Kings may be blest, but Rab was glorious O'er a the ills of life victorious,"

Let me see what you say, Oh yes, you say that think they are many persons believe that "the mills of God grind slowly". Well I never, never did meet any such person nor did you. God is no grinder. Have you never writing, call it an essay if you will, I give the follow-read "For our God is a consuming fire" or "The bruised ing from the Christian World's correspondent, I. B., reed he shall not break". A grinder; not at all. But who writes on every conceivable subject and writes for the capital G, I might have concluded that the error in the quotation was the compositor's, but he would ensing bill, and suggesting that a way to secure pop-not bother reaching up for a cap g with a lower case ularity with certain people would be to provide free g handier. Is at the quotation more correctly written The mills of the gods grind slowly, but they grind

"To put into force by law prohibition." What are you giving us? Kindly explain the kind of prohibition that can be enforced without law. You cannot successfully prohibit without a penalty, and the enactment of a penalty needs law, therefore there are not two kinds of prohibition. You see, don't you.

To put into force, by law, prohibition while the desire and the demand exist seems rather like a dream of the age". Poetical? perhaps, Philosophical? not at all.
Glancing over a New Glasgow paper a short time

ago I chanced upon the following :

"To a very practical person who has a firm belief that the mills of God grind slowly the proposal to put into force by law prohibition, while the desire and the d mand exist, sounds rather like a dream of the age, which is putting speed and veneer before everything else Even if prohibition could be carried out it is reand by a large thinking number in other denominat-The Presbyterians stand, or ought to, for preached. a compulsion against this doctrine."

I was about casting the paper aside with the rem rk fuich, or another like suggestive exclamation 'Are we not right?' When one it asked a question, no as bad as all that. Further you say that "The Presbythe United Kingdom the supremacy, the sovereignity to face with nature, listening to her whispers, wringing of the trade was exemplified by the defeat of the lie-ensing bill. In the United States, the trade decides It is indeed rarely that

the article had been written by a practical anti-prohib- and the eighth and the ninth? These are all prohibitdi them prevails, Are not the several prohibitions a compulsion against the doctrine of the right of every man to use his own private judgement". Well I rather

> As a specimen of what I consider good leader writing, call it an essay if you will, I give the followwell. After referring to the defeat of the British licliquor, at the nation's expense, two nights a week, he

thus discourses on politics in general:

"It is well to recollect that our world of to-day is so much better than the best of yesterday. One of the most effectual antidotes to discontent with the present is to read a little history. We see there how, despite the fluctuations of parties, the line of progress stretches It is curious how each generation ever on and up. despairs of itself. What a pathetic cry is that of Southey in his time: 'Oh Christ' says he in a letter to Landor, 'that this England, this noble country should have a face all leprosy, and a head fit for nothing but the vermin that burrow in it!" Yet, while patriots We drink despair, the country goes on improving. too much, but our fathers drank more. A Temperance Bill is thrown out, but we are temperance itself compared with two generations ago. The Creevey Papers, the Greville Memoirs show us peers of highest distinction staggering drunk from their clubs; Brougham rising to speak in the House so intoxicated that his garded as an impossible reform for the Anglican body, first sentences are a mere gurgle; King George on his visit to Ireland drunk as he lands at Kingstown. We ions as being inconsistent with the principles of christ- are beyond that level. And we know to-day pretty ian liberty for which Christ stood and which Paul fairly the limits of possible reaction. Its worst form will never carry us back to the old factory system, the the sovereignty of God. . . . Therefore there is no room old criminal system, to the old slaveries and persecutfor ecclesiastical domination. Spiritual independence ionf. The balance of power swings this way and that, and civil liberty being the foundation of our Church, but it cannot stop the march. There are certain steps and a vindication of the right of every man to use his forward which will not be retraced. Deeds have been own private judgement. Now then is not prohibition done in our history which are not to be undone; they are indestructible, inalienable additions to the sum of national well-being.

Let us remember also how much of the progress of when I was arrested by the closing words of the article the race depends on causes quite outside politics. While parties are declaiming and fighting, some lonely matter how silly it is, common politeness bids him an- Copernicus in his cell, or Newton under his apple tree, swer it. Ones courtesy being challenged he hates to remote from the uproar, is solving some world problem seem boorish, then I in answer to the question reply: and setting men on a new path of enlightenment. A Decidedly not; you are wholly wrong. Why, man, a Stepenson gives us railways, a Curie discovers radium, reading of your article would lead any one to the con. Marconi finds a new medium in the air. In remote clusion that your mind was still in its infancy, or that, solitudes of unmapped regions pioneers are probing, for want of refreshing showers, its growth had been searching, and may come any day upon new resources, You say prohibition "is regarded as an im- undreamed of powers. A single nature's hint striking possible reform for the Anglican body". You may upon some receptive brain may any day revolutionice be correct but I never should have imagined they were life. It is in the silence and not amid the noises of conventions that the great things are done, the real adterians ought to stand for the sovereignty of God", vances made. The new invention is of no politics. True and probably that is the reason they go in so Like the sun it rises upon the just and the unjust strongly for the prohibition of the liquor traffic. In The real progressives are the world's best brains, face

It is indeed rarely that the politician, as such, the elections. It is responsible for Tamany. Should brings about the great forward movements. Parlia-the sixth commandment be abrogated and the seventh ments are not manufactories. They are merely the ex-

changes for products made elsewhere. configuration of products made ensurers. An the eight century Wesley and his preachers had little to say about the party issues of their time. Yet what is sues they were! In that period England saw the loss of her American Colonies, the conquest of India, the French revolutionary outbreak which shook all the thrones of Europe. In the midst of the turmoil Wesley and his helpers kept to their preaching, pouring into the mas es a red hot message not of time but of et-And who shall measure the political effect of that entirely non-political work.

Considerations of this kind seem to show us the true temper in which to face our political setbacks. It is one not of despondency. not of indifference, not of cynicism; but one of cheerfulness, of courage, and above all of hard work. The finest thing in the situa-tion is that good work is never lost; it always tells. The material may seem hopelessly unpromising, but it is not really so. The human improvement carried on as we have seen, through the ages, is proof enough of found its fools so preponderant, yet believed in its essential soundness, yes, in its greatness, Did ever a nation get a better character than this, and every word of it true? 'Nature alone knows thee, acknowledges on it true is Nature alone knows thee, acknowledges sade or the East River, Pictou County, there is a tract the bulk and strength of the; thy epic, unsung in words, of fire clay land, extending over half a dozen farms. sea moles, cotton trades, railways, fleets and cities, Indian empires, Americas, New Hollands, legible throughout the solar system !

The true way for us as politicians is to be always deeper and higher than politics. They are worth nothing except as a form of the world's spiritual improvement. The man who pursues them for personal and mercenary ends will find nothing in that arid reg and mercenary ends will and nothing in that are region but dust and ashes. The triumphs are of a day; the defeats have no compensations in their bitterness It is only when we have made our politics a part of

The British Budget proposes to tax ungotton miner-I have had no opportunity to read the clause relating to this point, so cannot say, exactly, how it is to be effected. I presume the tax will be on the land, and not so much per ton on any assumed quantity of mineral that may be supposed to be under particular lands. Ground supposed to contain minerals will be taxed at a higher rate than lands barren of them. Perhaps from the British Budget the local government may learn a The Halifax Herald professes to be scandalised at the action of the local government in increasing some time ago the royalty on coal, and berated the govsome time ago the royalty on coal, and benated the gen-ernment for such action. The Herald is scarcely even Had it perception enough, and did it, in truth, wish to make a point, it might have queered or guyed the government over the fact that royalties, except on coal and gold, were in much of a mix up. all know what the royalty on coal is, also on gold. what is the royalty on iron? Some one may say 'Oh, that is easy, it was fixed long ago. Perhaps, and yet But the royalty on iron ore is in an anamolous position. When grants or land were given out years ago, with lavish generosity, the government reserved, as the peoples, coal, gold, silver and precious stones. Just what the then governments meant in reserving precious stones,—

Scotia are lime crystals, -it is hard to imagine. looking over the records a while ago in the Crown land office I found a grant in which the Crown had not reserved even coal, but probably there are few such. some of the grants iron is reserved to the Crown; in others it is not. Now suppose A and B have farms adoining each other on which iron ore has been found. The ore on A's land has been reserved; on B's land the ore belongs to the soil. The ore from A's area, then, is subject to royalty, while that on his neighbor's is not. subject to royalty, while that on his neighbor a lot to great annoyance and inconvenience. They have been given rights of search, and have done work, only to discover, later, that some other persons had found out that the ore had not been reserved. and had made a bargain with the land owner. They say there is iron in Guys-borough Should it, by and bye, be worked, will it be

fair to enact a royalty on some ore, and not on other? Fire-clay has been, by the government, in answer to as we have seen, through the ages, is proof enough of been enacted as yet, probably from a desire, on the part that. Our poor Eugland even, so stupid as it seems at of the government, to put no burden on an industry as been enacted as yet, probably from a desire, on the part yet in its experimental stages; but suppose in the future yet in the specimental coges, our suppose in the fire-clay business assumes some proportions, what will the government do about royalty, seeing the clay is in some cases reserved and in others not? On the East she outs and strength of the; thy epic, unsung in words, or fire cray rand, extending over half a dozen farms, is written in huge characters on the face of this plane! From North to South let the farms be numbered 1 to 6. and the East River, Pictou County, there is a tract On farms Nos. 1 and 2 and 5 and 6 the clay has not On arths Ave. I ame a and a and a the cray mas not been reserved, while on the two centre farms, 3 and 4, it is possible this fire clay will all be worked some day. Will not there be an excuse an be worked some day. Will not there be an except for those working the clay in Nos. 3 and 4, if they think they are being unjustly treated.

Then there is the matter of shale. Is shale coal, and then there is the manuer of shades a state of the state o is it subject to royany. Is it a mineral uniform room coal, and if so has it been reserved? There must be uncertainty on this point. Some two months, or more, It is only when we have made our pointes a part of County. The ground had been fully covered with least our religion that amid reverses and discouragements es, and rights of search for coal. Some parties believed these rights did not cover shal, and made bargains with these rights did not cover snar, and made pargains with the proprietors of the land. That the rights of search the proprietors of the rang. That the rights of seatth people did not consider their titles unimpeachable is evidenced by the fact that as scon as they heard that other parties were taking options on properties they immediately set about doing a similar thing If shale is coal, the holders of the rights of search are on top; if it is not the other fellows are masters of the situation. To dethe other renows are massers of the samation. To de-termine whether or not shale is coal, the law courts of Scotland had to be invoked, and the legal battle was a sharply contested and expensive one.

I read in the papers a while ago a glowing account of the opening up of an arsenic mine in the province. Is arsenic a mineral; what is the royalty, if so? are those who are against all royalties on the ground that they are a tax upon enterprise. Be that as it may that they are a tax upon enterprise. See that as it may it is too late in the day to discuss their equity or unequ-Without royalties the affairs of the province cannot be carried on, the royalties are, it may be said. all that are left to us. I am of opinion that the government should adopt a new and a bold policy, in reference to should supply a new and a out poncy, in reference to royalties. All minerals of an appreciable economic value should be called upon to pay royalty, and that regardless of the land grants, as to reservations. The government earment has the power to do such a thing, the only question is 'would it be fair'? Well is it fair to tax iron seeing the most popular gems we have yet found in Nova on some lands in other counties? These grantees who

are called upon to pay royalty paid as much for their mate dealers. It almost went the length of say grants, as those permitted to mine ore free. By the im- ing, in fact it did say-that the measure of the many. In some cases compensation might justly require time for the outcry in the press against company to be given-in cases where operations may have been stores, has veered round evidently, at least he is commenced on the assumption that the ore or mineral on a different tack. In a paper now published in belonged to the soil—but these cases where bona fide Glace Bay, of which the party referred to is one operations had really begun would likely turn out to be of the proprietors, we find the following: —"If the surprisingly few.

#### THE EVOLUTION OF THE "PLUCK ME."

From time "immemorial" well on into the nineties, the coal company's store on the north side of Sydney harbor was familiarly styled the pluck me. By whatever name the store may have been designated in the company's bookwhatever its official cognomen, colloquially among the workers it ever and always was referred to as the pluck me. The title did not extend easily to the company stores on the south side of the Harbor. If one wished to use the title here, he was expected to put the word surrounded by quotation marks, whereas on the north side all such embellishments were considered unnecessary as if the nickname was indigenous to the locality. That, it was not, however, but a transplantation from across the seas. In former years the appelation may not have been inappropriate, but of late years it has lost any significance it may have ply had as applied to the stores of the coal compan-Wonderful to say the stores which were designated, in the reddest anglo saxon, as a bane, are now considered as a boon, if not actually a blessing without a blessing. Why do we say "wonderful." Because it is a wonder that that

then Secretary of the P.W.A. was by a faction getting prime beef at less cost than the workmen denounced as an abettor of the stores and therein the other mining localities. The writer a short fore a betrayer of the workingmen. Though the time since went through the store of the N. S. S. stores were used as a cry more against the P. W. & C Coy, at Sydney Mines, the store that former-A. secretary than against the company, the latter ly went by the name of pluck me, and was surwho had been losing hand over fist by the stores, prised at the variety of articles exhibited and the declared they would give them up if a majority trade done. In the meat department there were of the workmen so desired. A ballot was taken. 200 or so neatly and cleanly done up parcels of The non contents childishly took umbrage at fresh beef ready for distribution by the threesome supposed informality in giving notice of the sometimes four—delivery waggons the store has ballot and refrained from voting, by their action for the purpose. There is also a fresh fish departmaking the majority in favor of the stores larger ment. The meat and fish department is fitted than otherwise it might have been. The Dom, with a refrigerator. Those serving at the meat Coal Co. had then twice the number of stores it tables had clean white aprons, the floors were well has now, which has opened the eyes of the ment of sprinkled with sawdust and the air was pure, the fact, that they may not, after all, be great Taken as a whole this 'Company' store will commoney makers. There is now no outery against pare favorably as to quality and price with any Company stores in Company stores in Company at the case is the second of the company stores in Company at the case is the company at the content of Company stores in Cape Breton; the sentiment is in the province. It is suggested by the Glace indeed the other way. There is a demand that Bay paper that the Dominion Coal Co. extend its the companies should take part in reducing the stores business in order to reduce and keep down cost of living. How are they supposed to be able prices. to do this. There can be one answer only; 'go into the supply business.'

position of a royalty on all mineral, wherever gotten, a prosperity of a community was the number of its few might be disadvantaged, but to the profit of the stores. The party mainly responsible at that wages paid their employees appear just and reasonable, the employers ought to apply themselves to the lessening of the cost of living to their help." Just so. And how are they to do it? We are not given the least suggestion as to any line of procedure the employers might adopt to bring about the desired aid. Probably the writer of the article from which the extract is taken could only make bald and not practical suggestions. We will relate an incident which carries with it a very plain moral:

A committee of the workmen at Sydney Mines waited upon Manager Tom Brown in reference to The men complained that living was so high that they could save nothing. A zealous member of the committee in course of the conversation exclaimed, "Look at the price of meat, eighteen cents a pound; cannot the company do

something for us in the way of cheaper meat."

'Would you like me to do something.' Mr. Brown asked.

'Of course we would" was the unanimous re-

'What,' asked Mr. Brown, 'would you have the company go into the meat business as well as the grocery and dry goods business. If I did I would have the three or four butchers and all their friends in the community down upon me.

The answer of the committe man was quick, wonderful." Because it is a wonder that that which was violently denounced a dozen years ago emphatic, and almost startling :—"To —, the bottom of No. 1, with the butchers and their In 1897 there was a fierce outcry against the company's stores on the south side of Sydney Harcommittees suggestion before Mr. Cantley; he bor, or to be exact in the Glace Bay district. The approved and the result is that the workmen are & C Coy, at Sydney Mines, the store that former-200 or so neatly and cleanly done up parcels of

The workmen do not now regard the Dominion Coal Co'y stores as an evil. Under the manage-Some years ago a paper published in Glace ment of Mr. McCann the stores do only a legiti-Bay was very active in its opposition to, and bit-mate business. No man is asked to deal with the ter against company stores. It declared them to company, and no credit is given. The large cash be a nuisance, carrying on a trade against legiti- sales testify to the fact that there is now no ex-

tortion if ever there was. If the company's stores nerves of a patient. were in former years extortioners; if it was compulsory to deal in them or be discriminated as ients. At the time of our visit fourteen cots were

#### THE SYDNEY MINES HOSPITAL

It is not twenty years since the men of Cape judices against such institutions and looked upon them as sort of slaugher houses. They imagined that hospital patients did not get proper attention, or the sympathetic treatment they would get at home. So strong was the prejudice against get at nome, so strong was the prejudice against hospitals fifteen, or less years ago, that the offer of a hospital by Pres. Whitney, of the Dominion tawa, which was organized for the purpose of devoting Coal Co., was rejected. Since then education has special attention to the economic features of Canada's coming prejudice, and substituting therefor kindly feelings towards such institutions. Because of the greater facilities for proper treatment, for at Dalhousie University, Halifax. skillful nursing and for freedom from distracting surroundings, the workmen at Sydney Mines are all now ready to approve of and uphold their

believe in their hospital, and the proof is that give special attention to: every boy and man in the employ of the Nova 1. Localities of iron ore deposited and names and addresses of owners butes what may well be called the generous sum of three dollars per year towards its support (if any) This means not less than \$7000 per annum, pos-

sibly \$9000.

Every employee of the company, every contributor is entitled to free admission and treatment.

R. Transportations. Of course if patients desire private wards there is a charge, but only the nominal sum of three dollars per week, as against the six dollars in some other institutions.

The building is situated on a hill less than a mile from No. I colliery. The situation is healthy and in every way suitable. Looking out from the windows, on the first floor, one is able to feast his eyes on birsh and spruce groves, and from the main entrance enhale the perfume of the pines From the second story, and looking over the tree tops, the ocean lies beyond to the left, and opposite, the Victoria shores of Sydney Harbor.

tempt at elaboration, while every effort has been equid mountains and of Arisalg, and the ores of Cape put forth to secure comfort and creaminess. The foreign, and is replete with analysis of ores, records or bedsteads are of polished brass, and the linen bore holes and geological sections, and other statistical spotlessly white. The word linen must be used data. spotiessly write. The word inner must be used data.

A second volume covering iron ore deposits not refor whiteness the writer easily classes as linen ferred to in Volume 1, and devoting special attention to The surgical appliances are the latest inventions limestones of value for metallurgical purposes will shortof science. The operating room is void of objects ly be issued, suggestive of the guillotine, and beyond the plate In view

gainst when work was slack, then certainly there occupied. Miss Manson, is the efficient matron, a has been evolution as none of these things are kindly, gentlewoman of much experience in hosnow chargeable against them. On the contrary pital work. She has under her direction a staff of seven nurses, two, or perhaps three, of whom are in their novitiate.

The building cost \$20,000, of which \$5000 is still unpaid. The management, of the hospital, The management of the Nova Scotia Steel & are no proposals for pic-nics, parlor teas or tag Coal Co., the employees of the company and the days. Good as the hospital is, it is not all the procommunity of Sydney Mines are, and may well moters could wish it to be. There is, it is claimbe, proud of the excellent hospital in that locality, ed, great need for a maternity hospital at Sydney Breton county refused to have anything to do carry weight, favors an addition to the hospital with an hospital Somehow they had strong prewill be undertaken at no distant day.

#### REPORT ON THE IRON ORES OF NOVA SCOTIA.

special attention to the economic features of Canada's mineral resources, has just issued a comprehensive report on the iron deposits of Nova Scotia prepared by Dr. J. E. Woodman, until recently Professor of Geology

This report, which covers very thoroughly the more important iron deposits of the province, consists of 222 pages of text. 63 illustrative photographs, diagrams and The institution is, surprising and gratifying to importance of the work may be judged from the detailed say, self sustaining. The workmen really must instructions given to the author, who was requested to

1. Localities of iron ore deposits so far discovered,

2. History of development of mines and companies

Geological description;

Analysis of ores

In cases of mines which have been worked, out-Transportation facilities ;

Limestone in neighbourhood of deposits; State in general terms character of forest in neighbourhood, i. e., whether the supply is sufficient for mining purposes and for the production of charcoal in the event of the introduction of electric smelting;

9. Maps of mines (and drill holes, if any).

The Report itself is divided into two main parts: Part 1 deals with the geographic relations of the deposits, their mineralogy and geology, and questions re-lating to mining policy, bounties and mining laws. Part 2 is entitled "Details of Iron Districts," and

ite, the Victoria shores of Sydney Harbor. covers more parucularly the ores of the Clementsport.

The internal arrangements are in keeping basin, the Nictaux Torbrook field the deposits of Hants with the surroundings. There has been no at and Colchester counties, the ores of the Western Cob-

suggestive of the guinotine, and beyond the prate. All view of the present condition of the fron ore inglass table there is nothing visible to work on the dustry of Canada and particularly Nova Scotia, where

should be of special value to mining engineers, investors and others interested in the development of the iron resources of this province.

Copies may be obtained on application to Dr. Haanel

Director of Mines, Ottawa.

#### PEAT FUEL INDUSTRY IN CANADA

The importance of the peat fuel industry to the central portion of Canada, where coal fuel is non-existent and its importation so comparitively coatly, requires no fore the Royal Institution, Britain, by Sir Henry Cun-

The Mines Branch of the Department of Mines, Ottawa issued a year ago a report on "Peat and Lignite, their Manufacture and Uses in Europe," with the object of giving to Canadians as complete a review as possible of this industry in those countries in which it has been

most successfully carried on.

This report is now followed by a bulletin entitled "The Investigation of the Peat Bogs and Peat Industry of Canada, during the season of 1908-09," by Erik Nys-This bulletin comprises 25 trom, M. E., Peat Expert. pages of text, and includes 6 large scale maps of the following peat bogs:

1,-Mer Bleue. near Ottawa.

2.—The Alfred Peat Bog, about 40 miles from Ottawa.

3.—The Welland Peat Bog, about 6 miles north of Welland

4.—The Newington Bog. on the New York & Ottawa Ry., and about 40 miles from Ottawa

5,—The Perth Bog, a mile and a half from Perth. 6.-The Victoria Road Bug, about a mile from Victoria Road station on the Midland division of the Gd. Trunk Ry

The Bulletin contains a descriptive report of each bog, showing the location, area and structure, and giving an estimate of the available supply of peat fuel with records of analysis, calorific values, etc., and should be of particular interest to those engaged in, or connected with, the development of Canadian peat resource

A fuel testing plant is now being erected at Ottawa, gas will be demonstrated, and the Department proposes

Copies of the above Bulletin and report on peat may be had on application to Dr. Haanel, Director of Mines, Ottawa.

Mr. S. B. Belden has been promoted to the pos-ition of Sales Manager in the Mining Machinery Department of The Jeffrey Mfg. Co.. with head-quarters at Columbus, Ohio. Mr. Belden who has for a great many years been Manager of the Pittsburgh Office of the Jeffrey Company, succeeds in this position Mr. R. G. Hutchins, Vice President, whose resignation has recently been accepted.

Glace Bay, C, B., July 23.—Dominion No. 1 is now producing about as much coal as at any previous time in its history. The total figures for to-day from this mine were close on 2,200 tons and Manager Maxwell is now getting within two hundred tons of this colliery's record. The Company have now formed somewhat different opin-

so much imported iron ore is being used, this report ions of the amount of coal a man is capable of producing a day. The men now at work are doing their best and tales of men making ten, twelve and fifteen dollars a day are in circulation which do not make any too pleasant reading to the man who is living on two dollars a week strike allowance.—Gazette.

#### COAL MINE DANGERS.

The following is a portion of a lecture delivered beninghame, on 'Advances in saving life in mines'

"In the year 1844, after the Haswell Colliery Disaster, Faraday and Lyell, who were sent to report upon it, suggested that coal dust had had much to do with the explosion. This new theory that coal dust played a part in mine explosions did not receive much attention in England, but in France, M. Souich and others attributde explosions in part to dust, until in 1875 Mr. Vital made a series of experiments on a small laboratory scale, from which he concluded that dust might of itself alone give rise to disasters. In 1872 the first Coal Mines Regulation Act was passed in Great Britain, and Mr. Galloway, one of the newly appointed inspectors, at once turned his attention to coal dust. In 1876 he presented a paper to the Royal Society in which, while admitting that explosions were usually originated by gas, he argued that they could be continued by coal dust alone, and that if the dust were only fine enough an explosion begun in a confined space might be propagated through a mine, Several commissions in Great Britain and in Germany then experimented upon the subject Still, however, the mining world was not convinced, and even in 1885 a Royal Commission reported adversely to coal dust as the principal cause of explosions in mines. In 1886 Mr. N. W. Atkinson and J. A. Atkinson, inspectors of mines, produced an excellent treatise on the dan-gers of coal dust. Their work was written from practical observation of various explosions. In 1887 a Royal Commission on coal dust was appointed, which employed Mr. Henry Hall-one of the present inspectors of mines and one of the earliest to adopt the coal dust in which the value of peat for the production of power theory-to conduct some experiments, which were con-The dangers of coal dust were now fully reto carry on a very thorough investigation of this subject. cognized. Though gas might cause small explosions in parts of the mine, general explosions were due to coal dust ignited either by a small gas explosion or else by a 'blown out' shot. To avoid the dangers of coal dust three different methods had been proposed. The first The difficulty of this was was dusting and sweeping. that it was impossible effectively to remove the dust by means of brooms and such-like implements, for a very little dust was enough to cause an explosion. A vacuum cleaner had been used in some places with a certain measure of success. The most effective method was by means of hose and sprays to wet any portion of the dusty main roads. The disadvantages of this plan were that in many places water caused the coal to disintegrate and the roof and sides to fall, and it was, therefore, dan-Another plan was to have zones of wet in the gerous. roadways. For it was believed that explosions of dust could be stopped if they met a wet place, and in very many cases it had been observed that explosions stopped at wet places.

Great as the change of opinion has been with regard to coal dust, British views had had to undergo a transformation almost equally radical with regard to the

causes of death after an explosion. When gas was the shaft. They were saved; but one man, who was too burned thoroughly they had, roughly speaking, one vol- strong for him, got past, and was afterwards found dead ourned thoroughly they had, roughly speaking, one volume of fire-damp mixed with two volumes of oxygen, The importance of getting a supply of fresh air rapidly ume of arrestamp mixed with two volumes of oxygen, the importance of getting a supply of fresh air rapidly which yields one volume of carbonic acid gas and two into a mine after an explosion could not be over-rated. which yields one volume of carbonic acid gas and two into a mine after an explosion could not be over-rated. volumes of steam; the seven volumes of nitrogen pre- But intelligence must be exercised so as not to drive voluntes of steam; the seven volumes of introgen prebut intelligence must be exercised so as not to drive
sent remaining unchanged. Therefore after such an expoisonous air into places where men may be in refuge. prosing the mine ought to be full of steam, carounic acid.

Ine idea of a contrivance which would enable a man and nitrogen, all the oxygen having disappeared. But to breathe in a poisonous atmosphere was of old date. and nitrogen, an the oxygen naving disappeared. But to breathe in a poisonous atmosphere was or old date. In practice this never happens. For in gas explosions But the first practical form of apparatus was the design there was always an excess of oxygen present. But of Mr. Fleuss, who was still living, and had more than they had the products of imperfectly combusted coal, that was to say, after damp, or carbonic oxide. Whenever coal was imperfectly burnt there not only was carbonic acid formed, but likewise carbonic oxide.

It was reserved for Dr. Haldane, of Oxford, to dempressed on them was at the Tylorstown explosion, in out alive. Dr. Haldane, in company with Dr. Morris, don, had been injured by its use. the bodies after they were recovered. The object was to discover the cause of death. When death had be-n caused by carbonic oxide the blood of the dead man exhibited characteristic symptoms. The bodies were covered with an adhering layer of charred coal dust, but in only five cases was the death due to the violence of the only five cases was the death due to the violence of the any strike in Sydney Mines," said S. B. McNeil, explosion. In all the other cases death had been due Grand Master of the P. W. A. to the Morning to carbonic oxide, showing that the mem must have live Grand Master of the P. W. A. to the Morning of the case of the property of the case of the property of the rescued men, a number had been rendered unterpretation. The death was quite hadly warsted in their fluct they have been so canada and property of the property of ing of the eyes and throat, and then, though the lamps were burning well and there was plenty of air to breath, the person affected felt weak and dropped down unconscious, never to recover consciousness again. He asked Dr. Haldane whether it would be possible to invent a machine capable of detecting carbon monoxide, so that rescue parties going down into a mine would be warned when there was danger, Shortly afterwards he pointed out that nature had provided us with a machine of the greatest delicacy, namely, mouse. So rapid is the circulation of these little creatures that an atmosphere which would take 30 minutes to affect a man would cause a mouse to become helpless in about three minutes. Inasmuch as most dry coal dust was to be found in the roadways of the mine, there would be found the carbonic oxide. The best way, therefore, was not to be in a hur-ry to get out after an explosion, but to retire into the recesses of the mine away from the large roads, and remain quief. It was believed that after the Park Slip explosion, in which 56 men were lost, all might have been saved if they had remained in their working places. The case of Roderick Williams deserves notice. fireman at the Tylorstown explosion. Finding his road blacked by after-damp, he retired to some old workings, where he remained an hour till he was rescued. On a W. ranks,

there were no such things as gas explosions on a large once risked his life in trying experiments with it. Stat-scale—even if there was any gas present to begin the ions were being established all over the country at explosion. The main result was always due to dust, which men could be trained in its use. It could hardly be said to be perfect even yet, and a good many men had perished through accidents with its use, but there was no doubt that these difficulties would be overcome. Reference was made to the aerolith, which consists of a It was reserved for Dr. flatdane, of Oxford, to demiosstos, and was one of the latest applications in a praconstrate to the mining world what a part this poison tiral way of the work done by Sir Jamee Dewar. There
played in coal mine disasters He thought that he was one apparatus he had great hopes of. It consisted sack containing liquid air absorbed in loosely packed asplayed in coal mine disasters. He thought that he was one apparatus he had great hopes of. It consisted might, to some extent, claim the credit of having first of a bag containing sodium, potassium-peroxide, and might, to some extent, claim the credit of naving inst of a pag containing soulum, potassium-peroxide, and recognised the ability and devotion of Dr. Haldane in this extraordinary chemical seemed as though expressly this work, and of having secured his services to help in designed for oreating apparatus, for when damped in the investigations of mine explosions. The period at exhaled oxygen, leaving caustic soda and potash behind, pressed on them was at the Lyjorstown explosion, in the perfect were it not that the chemical was very innum. 1895, at which 57 men were killed, 33 being brought mable, and two men, one in Germany, and one in Lonwhich in their turn absorbed carbonic acid. It would be perfect were it not that the chemical was very inflam.

### THE SITUATION AT SYDNEY MINES.

conscious also by the after-damp.

Intereach was quite pacify worsted in their ngnt with the P.W.A. at a painless one, the only symptoms were a slight smartthe mines of the Dominion Coal Co. and Inverness
and the area and these and then shough the lamps that they do not relish carrying the strike any further. But at Sydney Mines the P. W. A. is in great strength. Only at Florence has the U M. W. got any foothold at all, and if they bring their men out there they will be even more badly beaten than they have been at Glace Bay and Inver-

> Glace Bay, July 26—The fourth week of the struggle between the U. M. W. of A, and the Dom. Coal Co., which opens to morrow may be the decisive one Claiming that they will have an out-put very close to that obtained under normal conditions by next Tuesday, the Company are appar-

ently embarking on an aggressive policy
Working on the assumption that the majority of the strikers are not prepared to live on two dollars a week for any considerable time in order He was a to win recognition for the U. M. W. they are seemingly embarking on a decisive course of action with the object of creating a break in the U.M. previous occasion he saved the lives of a whole company ers admit they have feared more than any other of men by forcibly preventing them getting past him to contingency.—Hx. Chronicle.

## Priestlezzs Mohairs

\_ · and \_\_\_

## Lustres

Have Excellent
Wearing Qualities,

WILL NOT COCKLE

Best for\_

SPRING AND SHIRT WAS All Ladies who wish to look wear Priestleys Dress Goods.
Greenshields Limited, Sole Agents
Montreal, Canada

# 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 Stellartor. Brick and Tile Co'y, and having installed more powerful and modern machinery. WILL BE PLEASED TO HAVE ENQUIVICE AS TO PRICE AND QUALITY.

Works -SYLVESTER

Head other-STELLARTON.

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

## 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.

### **ROBB POWER PLANTS.**



ENGINES.

BOILERS.

Corliss,

Return Tubular. Water Tube.

Slide Valve, Horizontal

Internally Fired,

Vertical.

Portable.

ROBB ENGINEERING COMPANY, L't'd,

AMHERST, N. S.

# CURTIS'S & HARVEY, LTD.

Manufacturers of all Descriptions of

# EXPLOSIVES.

BEST QUALITY ONLY.

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

## PERMITTED EXPLOSIVES.

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

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

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

Supplies of all Explosives to be obtained from

Agents for Nova Scotia

AUSTEN BROS., Halifax

Contractors to Admiralty and Wer Office, also Colonial Governments

# VHYTE & CO

Clyde Patent Wire Rope Works,

Cablegrams: Ruthergien, Glasgow, Scotland. Codes, A.B.C. (4th & 5th Edg.)
"Ropery Euthergien" Ruthergien, Glasgow, Scotland.

# WIRE RODE:

Winding & Haulage

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—

screens

Perforded Steel, Steel Wire. For miners and every other Write for Special Catalogue. THE B. GREENING WIRE COMPANY, LIM HAMILTON, ONT.

> CANADA FOR THE CANADIANS! "DOMINION" For Everybody.

> > PATRONIZE HOME INDUSTRY

The DOMINION WIRE ROPE CO., Ltd., Montreal

## INVERNESS IMPERIAL COAL

INVERNESS RAILWAY and COAL COY. Inverness Cape Breton.

Miners and Shippers of INVERNESS (BROAD COVE)

Screened, Runsof-Mine Slack.

-First Class both for Domestic and Steam Purposes.-

Shipping facilities of COAL 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

MONTREAL, QUE.

Time Table No. 26, Taking effect at 1 a. m.

Read Down		STATIONS.	Read Up	
L 10 45 8 10 51 A 11 10	L 3 50 8 3 55 A 4 03 L 4 13 F 4 5 8 4 4 50 8 5 50 F 5 A 5 33 8 6 128 8 6 48 8 7 03 A 7 15 P m	P, TUPFEL JUNCTION DORT HAWKEBERY PORT HASTINGS TROY. CREGORISH JUDIQUE CEAGEORISH JUDIQUE CEAGEORISH JUDIQUE CEAGEORISH PORT HOOD GLENCOE MABOU GLENDYRE BLANK RIVER STRATHLORNE STRATHLORNE	A 10 8 3 10 27 5 10 27 5 10 27 5 10 27 6 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	8 3 27

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

Natural gas was produced in the counties of Welland. The total sales were 2,665,289 barrels as compared with larger than at any time since the gas was first used.

been received from twenty three operating plants. The in Quebec province and 15 in Ontario. Of the 23 opertotal quantity of cement made was 3,495,961 barrels as ating plants, 12 use marl and clay, ten use limestone and compared with a total 2,491,513 barrels made in 1907, clay, and one blast furnace slag, showing an increase of 1,004,448 barrels or over 40 p.c.

Haldimand, Norfolk, Kent, Essex and Bruce, in Ontario 2,436,093 barrels in 1907, an increase of 229,146 barrels and at Medicine Hat, Alberta; the sales from the Ontar- or over 7 per cent. The total daily capacity of the 23 io fields constituting over 95 per cent. of the total. The plants was about 27,500 barrels as campared with an optotal receipts from gas sold in 1908 show an increase of erating capacity of 14,300 barrels in 1907. The operatabout 24 per cent. over the receipts of 1907 and are now ing plants were distributed as follows:—One each in Nova Scotia, British Columbia and Manitoba, the latter Complete statistics of cement production in 1908have manufacturing a natural Pordand, two in Alberta, three

# North Atlantic Collieries,

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

Miners and Cow Bay Basin Coals.

EXCELLENT FUEL FOR

# Domestic, Steamshipand Railway Use.

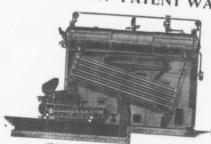
Recent analysis of the coals in several of the seams in this Basin—which will be persistently developed—show them to be remarkably low in ash and sulphur.

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

oading Piers at Port Morien C. B. Head Office, Halifax, N. S.

Mines Office, Port Morien, C. B. Вавеоек & и

"B. & W." PATENT WATER TUBE BOILERS.



"B & W." PATENT WATER TUBE BOILER. SUPERHEATER AND IMPROVED MECHANICAL STOKER

Over 7,000,000 h.p. in use.

Also, Steam Superheaters, Mechanical Stokers, Piping, **Coal Handlnig Machinery** and Electric Cranes.

Text Book, "STEAM," sent on request.

ead Office for Canada :-

New York Life Building, Montreal TORONTO Office, Traders' Bank Bldg.

## &. 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.

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 Daminion Coal Compani.

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. FRINK, St. John, N. B. A. M. CROFTON, Sydney, C. B.

# RIBBER 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 Pecking 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 Montreal, Winnipeg and Vancouver

Head offices, 47 Yonge Street, Toronto

# Acadia Coal Company, L't'd.

Miners and Shippers of

# Celebrated

Unexcelled for Steam, Domestic and General Purposes.

DELIVERED BY RAIL OR WATER, SHIPPING PORT, PICTOU LANDING.

Quotations Furnished Promptly on Application.

# COAL, RAILWAY,

Miners and shippers of

JOGGINS.

High Grade

Domestic

Unexcelled for General Use. Shipments by Intercolonial Railway and Bay of Fundy.

Power Plant, CHIGNECTO, N. S.

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

# The BROWN MACHINE COY.

New Glasgow, N. S.

# Coal & Gold Mining Machinery a specialty

Endless Haulage Engines. Revolving Tipples, Picking Tables and Complete 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 ESTIMATES CHEERFULLY GIVEN. CORRESPONDENCE SOLICITED.

# 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.

FIRE BRICI

Better than Scotch seconds for

SHIPMENTS BY RAIL OR WATER.

INTERCOLONIAL COAL MIN NG CO., LTD. Westville, Nova Scotia.

<u>你我也也也也也也也也也也也</u>

# HADFILD'S STEEL SHEFFELD



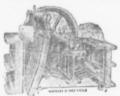


CAST STEEL BRONZE BUSHED

ERFECT GYRATORY

ENGRYPHICATION

CRUSHING ROLLS,
ELEVATORS,
and Gold Mining Requisites.



HADFIED'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.

### & SONS, LIMITED. CABLES :- "EDGE" Shifnal

CODES :- A.B.C. 4th. Edition. Bedford McNeill's

SHIFNAL, (England),

Have always in Stock every size of their standard

## SPECIAL CRANE

Manuta ured in their own Workshops by selected Workmen, under Strictest Supervision and every Link carefully Tested and Certificates Furnished.

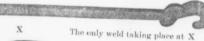
Mine Cars. Drawbars and Hitchings a SPECIALTY.



Forged from the Solid

Improved Type of Tram Hitching, consisting of Three Side-welded Links. The illustration shows one of these couplings before, and after being tested on Lloyd's Public Machine. Made of 1 dia. Iron. The centre link narrower to prevent buckling.

Broke at 57½ tons in the iron. The welds showed no sign of giving way.





## 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.'

12 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

-AT-

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,

2nd Vice-President. and Gen'l Manager.

Alexander Dick,

General Sales Agent.

GENERAL OFFICES, GLACE BAY, NOVA SCOTIA, CANADA.

## CUMBERLANI

RAILWAY AND

OPERATING THREE THICK SEAMS NOS 1, 2 AND 3.

-Miners and Shippers of the Well Known-



 $\dots$   $ANALYSIS \dots$ NO 2 1.41% Moisture.....2.02 % Volatile combustible matter 18.94 % 2.71% 27.93 % 67.47 % Fixed Carbon. ...... 75.29 % 28.41% 64.69 % 3.19 % 4.19 % 100.00 100.00 100.00 Sulphur..... 1.15 % 58% .79%

> BEST COAL FOR LOCOMOTIVE USE.

Delivered By Rail or Water

BEST COAL FOR GENERAL STEAM PURPOSES

BEST COAL FOR

\*

IN Lots To Suit Purchasers.

BEST GAS COAL

Mined in the Prevince.

Mines\_

SPRINGHILL

N. S.

Head Office-

MONTREAL