

Cumberland.

Pictou.

Cape Breton. \* Inverness

New Series Vol. 10 No. 3

August 14th. 1907

STELLARTON, N. S

# ron & Steel Co'y

SYDNEY, NOVA SCOTIA.

### **FOUNDRY** PIG IRON

Brands:

"Dominion."

"D. I. S. C."

Basic

Blooms, Billets Slabs.

Rails Weighing 56lbs, per lineal yd, and heavier

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

## LATCH & BATCHELOR, Telegraphic Address, Latch, Haymills.

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

Manufacturers of all Kinds of WIRE ROPES for

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



Locked Coil Winding Cable.





Locked Coil Aerial Cable or Colliery Guide.











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

RAWERS OF all Sections of HIGH CLASS STEEL-WIRE.

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

## ACADIA POWDER CO., LIO

**MANUFACTURERS OF** 

### YNAMI

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

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

-MANUFACTURERS AGENTS EOR-

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

OFFICE: -76 and 78-Telephone 251. P. O. Box, 520 GRANVILLE ST., HALIFAX, N. S. E Mark British Carlo Car

Designer and Manufacturer of COAL DRILLS and all Kinds High Grade Miners Tools,

MINE CARS AND HITCHINGS, LICHT AND HEAVY FORGI

P. O. BOX 50. - - New Glasgow, N. S.

THE STATE OF THE S

## Miners Wanted

TO CHEW

## PAY ROLL

Plug Tobacco

## WANTED

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

Applyon the works Or by letter

Dominion Coal Company, Ltd

Genuine Garlock Packings FOR ALL PURPOSES.

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

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

## THE GARLOCK PACKING CO.

Used by Collieries in Lancashire Staffordshire & Yorkshire

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

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



RAILWAY STREET and MINING

CAR WHEELS

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

Large Stocks of Foreign and Domestic Lumber on Sale.

Rhodes, Curry & co., Ltd.

BUILDING MATERIALS GENERAL

ROBBIE STREET, HALIFAX, N. S.

AMHERST, N. S

and after MONDAY, JUNE 16 1907 trains

daily, Sunday excepted, as follows:	
- The and a state of trains	1
No 144 Mixed for Hopewell No 79 Mixed for Trenton No 78 Mixed for Trenton No 78 Mixed for Trenton	
No 144 Mixed for Hopewell— No 79 Mixed for Trenton To Mixed for Trenton To Mixed for Hopewell SE Express of Halifax, and St. John Mixed for Fictou Landing Mixed for Fictou Landing	
to Mixed for Honewall	5 55
AS Express for Halifan	6.30
21 Mixed for Pictou I, and St. John	6.55
18 Express for Holewell 18 Express for Halifax, and St. John 21 Mixed for Pictou Landing 62 Mixed for Pictou.	7.40
22 Mixed for Pictou Landing 22 Mixed for Pictou Landing 23 Mixed for Mixed f	7.40
atised for Pictou Landling  28 Mixed for Pictou Candling  29 Mixed for Pictou  30 Mixed for Mulgrave  30 Mixed for Mulgrave  31 Mixed for Pictou  32 Mixed for Truto  33 Mixed for Truto  34 Mixed for Truto	45
28 Mixed for District y	.30
56 Mixed for Thereton 16	.55
85 Express for the truto	.00
20 Express for the Sydneys	85
As Aprens for Sydn	40
101 Mixed for Picton Land 16.	907
22 Mixed for Pictou Landing   16.	100
### ##################################	1173
16.   18.   18.   18.   18.   18.   18.   18.   18.   18.   18.   18.   18.   18.   18.   19.	DU .
	10
66 Express for New Glasgow St. John 19.6	10
18.   18.   19.	.0
66 Express for New Glasgow 19.6  TRAINE 21.1	.0
TRAINS ARRIVE AT STELLA	5
79 Mixed form U. ARRIVE AT STELLAR	

TRAINS ARRIVE AT STELLARTON	21.1
MAINS ABBILL	
79 Mixed to Christ AT STELL	
78 Missats form Hopewell	at a
of Miked from Trenter	
79 Mixed form Hopeweil 78 Mixed from Trenton 61 Express from Picton	6.30
alixed form Hopewell STELLARTO! 78 Mixed from Tenton 61 Express from Picton 18 Express from New Glasgow 21 Mixed from Hopewell 20 Mixed from True	0.40
91 Min Trong New Classes	6.55
at Mixed from Honor bangow -	7.30
21 Mixed from Hopewell 23 Mixed from Pruro 24 Mixed from New Cl.	7.35
an anixed from New Ob-	7.85
at alixed from Hopewell	8.00
	10,35
too by press from Halifar	10 40
139 Mixed from Picton 130 Express from Halifax and St. John 150 Express from Halifax and St. John 150 Express from Sydney 150 Mixed from Picton I. Additional St. John 150 Mixed from Picton II. Additional St. John 150 Mixed from Picton II. Additional St. John 150 Mixed from Picton III. Additional St. Mixed from Picton	13.15
	10.45
90 Pospress from Halifay and of	10.45
and Express from System and St. John	15.25
30 Express from Halifax and St. John 22 Mixed from Pictou Landing	15.80
77 Mixed to In Pictou Landing	10.00
	15.50
asixed from Pictou Landing 77 Mixed from Hopewell 65 Mixed from Pictou 96 Express from the Sydneys 66 Express from New One	18.16
56 Express from the court of th	18.45
	10.40
12 Com from New Charge.	19,30
oo aliked from Picton  SE Express from the Sydneys.  Express from New Glasgow  Fashes are run by Alainko Standard time from New John and Halifax  Fashes are run by Alainko Standard time from New John and Halifax	19.40
rains are were but John and Halifer "	21.05
nok is said full by Atlantic Stalliax	21.00
of did bight Manual Standard time m	21.10

All trains are min by Admand Halifax

All trains are min by Admand Halifax

Ordors is und-night. Moncton, Standard time: Twenty four

Ordors is und-night. Moncton, Standard time: Twenty four

Ordors is und-night. Moncton, Standard Standard Company

Ordors in Carlos between Halifax and Standard Company

I finds hotween Montager and Standard Revieware, on No. 30

May see an South Burre and Montager.

On St train between

displayed and Halifax.

On St train between

### WIRE ROPE

HICH CRADE WIRE ROPES FOR Hoisting, Haulage, and Colliery Purposes.

Manufactured Dominion Wire Rope Co., Ltd., MONTREAL.

AUSTEN BROS .-: -- HALIFAX AGENTS.

### MONTREAL STEEL WORKS Limited.

STEEL; CASTINGS FORGINGS, SPRINGS, FROGS, CROSSINGS,

We make a Speciality of cast Steel WHEELS

and other
Steel Castings for MINING PURPOSES

INTERLOCKING SWITCH AND SIGNAL Plants.
(Under the patents of Saxly & Farmer, Limited, of London Eng
CANAL BANK, POINT ST. CHARLES MONTREAL—

ESTABLISHED 1863.

### Phillips Mine & Mill Supply Co.

PITTSBURGH, PA.

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

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

Coal and Coke Works Equipment.

### Head=quarters in Nova Scotia for

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

STEAM PIPE AND FITTINGS.

L STAIRS, SON & MORROW LIMITED

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

## 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: SYDNEY MINES

SHIPPING PORT NORTH SYDNEY.

An Unsurpassed Evaporating Coal.

Highest in Carbon, Lowest in Ash,

Unrivalled Facilities for Eunkering at North Sydney.

The Best House Coal.

The Best Steam Coal

OUICK DISPATCH LOADING -- FEST 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. 

### Miners Wanted

Steady Employment, Good Wages, and Free Land for Homes for Coal Miners, at MINTO, NEW BRUNSWICK.

The New Brunswick Provincial Government will give 10 Acres of Land FREE to Coal Miners who will settle at Minto, N. B. The conditions being the crection of a house and the occupation of the land for three years, and working in any of the Mines. For further information apply

to W. C. HUNTER, Manager,

New Brunswick Coal and Railway, (operated for the province of New Brunswick by a Government Commission,) Norton, N. B.

Minto Mines. Minto N. B.

APPLY TO

G. H. KING,

CHIPMAN, N. B.

### The KEYSTONE

**Percussion Core Drill Attachment** is an economical appliance for

TESTING COAL LANDS.

It can be used in connection with any good "churn" drill, but operates lest on the long-stroke KEYSTONE, thus making the cheasest and quickest method of oring to be found,
In operation a hole is sunk to the coal with the ordinary Book
Bit. The Bit and Sean are then removed and the Coring Attachment put on in their place, It takes a 4 ft. core out of the Softest as well as the Harriest part or the velo. Avoids all delay and
expense of "rods" water wash, diamonts, shot, and heavy operat-

#### Price of Complete Attachment \$200.00

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

Keystone Driller Co. Beaver Falls, Pa.

### Mining & Mill Supplies.

Valves, Fittings. Packing,



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

RIVETS

Steam Goods -of every-Description.

Iron Pipe for Mining Purposes.

-Catalogues and Prices on Application.

MONTREAL,

-- Established 1962-

·-----

MAN'S ing man recently fin-ished an Inspection of VIEW. the ANTHRACITE coal fields of Pennsylvania. When asked what impressed him most. he said .

A well-known min-

"The acidity of the water, and the fact that of all the pumps I saw there two out of three were Jeanssville Pumps." An indication at least that we know how

to handle the acid water problem.,

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

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

Jeanesville Hazleton, Pa.

Iron Works Co.,



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

Iron, Copper, Lead, Etc.

Titles direct from the Crown-

At Moderate Royalties.

GOLD AND

Licenses are issued for prospecting for Licenses are issued for prospecting no fold 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 cents per area. Leases of any nominal 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 make returns and pay royally 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 an annual rental of \$30,00

All titles, transfers, etc., are recorded free on coal is 10 cents per long ton, and on other

ninerals 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

HON. W. T. PIPES.

Commissioner of Pulis Works and Mines, HALLFAX, N &

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

Operating MINIOIE MINES

in the Celebrated CUMBERLAND COAL FIELD

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

The best for Foundry or Furnace, Locomotive or

Stationary Engines, for Domestic or General use

CLEAN AND CLINKERLESS.

Direct connection with the I. C. R.

Colliery

RIVER HEBERT, N. S.

GEO. H. BISSET Sec'v Treas

Mine Manager:-HY, McCARTHER. Business Manager R. S. HIBBARD, River Hebert, N. S. Head Office, Ground Floor, Temple Building, Montreal

### Electric Coal Mining Machines.



Operating in the Mines of Carleton Coal and Coke Co.

Coal Mining Machines, No. 11 Electric Locomotives, No. 10.

Complete Mine Equipment. The JEFFREY MANUFACTURING COMPANY, COLUMBUS, OHIO, U. S. A. New, Fork, Chicago, Baston, Prisburgh, Dopper, St. Louis, Montreal, Can.



### Electric Locomotives for Mines. Electrically Driven

Hoists.

Motor operated Air Compressors,

Complete Electric Installations.

Canada General Electric Company, Limited., -Write us your requirements-

Head Office, Toronto, Ont.

District Offices:—Montreal Halifax Ottawa, Winnipeg, Vancouver, Rossland.

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

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

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

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

### Important Notice.

The Maritime Coal Ry. & Power Coy., having taken over on June 1st., the Joggins Mine and Ry.

Reliable crop reports from the Canadian west are optimistic for another year of plenty in cereal production.

The aggregate acreage will probably be in excess of last having taken over on June 1st., the Joggins Mine and Ry. year owing to the large number of newcomers settling and are starting at once on opening a new slope and doin Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan. The acreage in Manito basis slightly lower than that of a year ago, but it is easreplication of the large number of newcomers settling in Alberta and Saskatchewan.



Vol. 10, No. 3. Stellarton, N. S., Aug. 14th. 1907. New Series

#### THE RED DEATH.

It is matter for thankfulness that, taken the world over, the percentage of lives lost through mine explosions shows a steady decrease. If one were to take the United States alone, there might not be cause for congratulation, as the six months of 1907 have an unsavory reputation in the matter of mine explosions. tain and on the continent the loss of life from explosions is smaller than ten to thirty years ago. More care is being exercised by the officials and also by the workmen. Here in Nova Scotia we have been immune from any startling visitation of the Red Death since 1890. Between the time of the explosion at the Drummond Colliery and that at the Albion Mines six or seven years elapsed, and the time between that latter and the explosion at Springhill was ten years. Within a period of seventeen years, 1873 to 1890, over 200 lives were lost in Nova Scotia in three explosions. In seventeen years, since 1890, there has been no serious explosion in any colliery on the mainland, and no appalling calamity in C. B. And it should not be overlooked that all of our larger mines are much deeper now than in 1890. It might be quite correct to say that in Nova Scotia to-day, the safest mines, so far as likelihood of explosions of gas goes, are the deep mines, and this from the simple reason that much more care and many more precautions are taken, The following graphic description of after damp, was written for the Standard by Joseph Keating:-

All the scientists have been at work trying to thwart this source of wholesale slaughter. They know two things and two things alone are responsible; a large accumulation of gas and a small artificial light. As the work of getting the coal itself produces gas, that evil is inevitable, and as artificial light is necessary to do the work, why, that evil is also inevitable. Taken separately, these things do no harm. But the moment they come together it is the signal that a few hundred simple souls are sent for by God.

Red death fills the black roads. It goes raging, blazing round the long galleries, seeking whom it may devour.

It comes out of the darkness with a roar. Its fury shakes the earth. The roof trembles, breaks, and down come the mountains in myriads of pieces. The dust mingles with the great flames; the volume of fire becomes too vast for the narrow tunnel. The side walls crumble, burst out, and give the blaze more room. The ground rocks under the men's feet; they totter and fall; and the appalling fire-torrent rushes over them.

Every man and boy in the pit cries out with terror. They know that the rolling thunder they hear is the roar of death. Even the horses—there may be three or four hundred of them—understand why the roads and sides are trembling. Then men, boys, and horses rush out. The only way of escape is where the light of day comes down the shaft. That is far away from where they are, and they scream with the horror that is upon them.

Just as they turn the corner of their little roadways to get the main artery, they see the fire. It fills the whole road. It is a great river of red, blue, and green. The gases and dust of the roads give it many colors.

The men, horses, and boys rush out before it. It will overtake them. But they rush on, with the poor hope that they can outrun death.

The long, narrow tunnel becomes a jumble thuman beings and animals. The men shout, the boys scream, the horses neigh and snort with terror, and trample on the weaker things. The dust rises in black clouds. By and by that dust will help to make the flames more fierce and strong. Then it will gain on the living mass rushing before it, and men, horses, and boys will lie down, quiet and the fire-dragon will devour them all.

Even if they escape this monster of red death, he has behind him a more terrible power than himself. For behind the flame comes a perfect whirlwind of furnace-hot dust—the scorching blast that follows in the track of every explosion.

A man may escape the fire. In his fright he falls flat upon the ground. The fire in its fury rushes over him without being able to harm him. But the moment he rises he feels about his face something that is at torture heat. It blisters and tears the skin from his cheeks—peels it off—as if he had suddenly thrust his head in a cauldron of molten lead. The agony makes him fall writing upon the ground again.

That second fall to the ground may prolong his life for a moment. It is the freak of

the molten blast to rush along the roof, and leave the air at the bottom of the road cool and He discovers this. He breathes joyously. The air is pure! But it remains so only for the flash of a minute.

Along comes the worst enemy of all: the poisonous "after-damp." It steals, invisible, through the roadways, at the tail of the blast. It can neither be seen, nor heard, nor felt. is mysterious. But it is terrible. It brings into the air its invisible dilution of death.

Far ahead of him in the darkness the man sees a faint red tinge along the roof. That is the blast. Its strength is demoniacal. It sweeps before it horses, trams, men, and boys, and crushes them all into one great heap of wreckage. It rushes out with the driving force of a hundred express trains.

Ahead the man hears the carnage-making roar. He rushes back. He thinks he will get From the rushes back. He thinks he will get at the main road by another way. All over the pit hundreds—out of the track of the blast—pit hundreds—the same. They are running along the same. the tunnels, looking for a way of escape. They have escaped the fire. All that remains is to reach the eye of the pit and go up to the light

The next light they see is the light of heaven. The hundreds running along in the darkness begin to feel sleepy and tired. Quite silently, without any of the uproarious behaviour of its creator, the after-damp has caught them. Out of each hundred, about ninety-five will die peacefully. They will have no burns, no bruises. Their features will be placid, their cheeks rosy under the black dust. The afterdamp kills silently.

And when the searchers come they will find groups of bodies lying on the ground in natural positions—just as if they were merely sleeping. But they are all dead—all dead!

A few minutes before they lie down the men see the little boys fall upon their knees and mumble that they are sleepy. Fathers take their sons up in their arms to carry them home to their mothers. But fathers and sons lie down together in the dust. The mysterious, invisible after-damp has crept into their lungs, and they are sleeping peacefully with the little boys in their arms. Only God can wake them!

A surprising number of officers, non-commissioned officers and men in the army are becoming total abstainers, Mr. Haldane, the Secretary for War, told the Royal Army Temperance Association's annual meeting in Caxton Hall. That meant that people were beginning to realize the enormous waste of moral, intellectual and physical force that drink had led to in the past. Lord Methuen urged the necessity for the establishment of a Temperance room in every barracks.

### FROM THE MINE TO THE MANSE.

It is remarkable how many men who became eminent in the sciences and in commercial pursuits, began their life's work in the coal mine. Those who have read dear old Smiles know that Sir George Elliot; Hunter, the geologist; Berwick, the engraver; Ramsay, the poet, and George Stevenson, the great engineer, were all connected in some way with colliery work. But it was not only in by-gone days that colliers rose from the ranks, by their own industry and perseverance. There are still many of them fitted with the ambition to succeed. Dr. Cadman, of New York, who has one of the biggest churches in that city, and one that commands nearly the largest income, was a pit boy. The number of young men who have spent years of their lives as colliers and quarrymen that graduate in the University of Wales is remarkable. No less remarkable is the number of young men at our Nova Scotia collieries who have qualified themselves for the highest positions at our mines. From a late British paper I learn that recently four appointments have been made to the staffs of the Welsh theological colleges. Three of these have been filled by young men who commenced life as colliers. Last week Mr. Joseph Jones, B. A., B. D., of Jesus and Mansfield Colleges, Oxford, was appointed Greek professor at Brecon Memorial College at the age of twentynine. When he was twelve he lost his father in a colliery accident, and then worked underground himself until he commenced preaching. He then entered Cardiff University College, and graduated with honors in Greek, and afterwards gained his B. D. (Wales) in the minimum time. Going to Oxford, he won the maximum scholarship of £60 a year for three years at Mansfield; Dr. Williams' Divinity scholarship of £50 for two years, and a scholarship of £60 a year at Jesus College. He has just won the Hall and Houghton University prize in Greek Testament.

The Rev. Thomas Rees, who recently was made Vice-Principal of Brecon, worked underground until he was nineteen. Entering the ministry, he gained his M. A. (Lond.) in six years after leaving the coal mine, and afterwards took his Oxford degree with honors in theology. He was made professor before he was thirty, and is now vice-principal before he

The Rev. J. T. Evans, M. A., of University of Wales and Leipzig University, has just been elected Hebrew professor at Bangor Baptist College, in succession to the Rev. T. Witton Davies, B. A., Ph.D. He worked in a colliery in the Rhondda Valley until he was twenty. He is now thirty years old.

One of the youngest contributors to Hastings' new Encyclopaedia of Religion and Ethics is Mr. David Phillips, M. A., Cardiff, (late lecturer at St. Andrew's University).

From the coal mine he went to Cardiff University College, and in three years took his B. A. with first-class honors in philosophy. He then entered Trinity College, Cambridge, and gained first-class honors in both parts of the Mental and Moral Science tripos. He has been chosen to write the article on the "Soul" to the above encyclopaedia.

When the mining schools have been enlarged and improved, as promised, and when the Technical College is in operation, our ambitious young miners will have a splendid chance of fitting themselves for advanced positions. And if one is to judge by the zeal they displayed in connection with the mining schools there should be no doubt as to the numbers who will seek to avail themselves of the opportunities for knowledge

We are losing many secrets in this shoddy age. If we keep on, the time will come when we shall be able to do nothing well. Take, for instance, steel. We claim to make good steel, yet the blades the Saracens turned out hundreds of years ago would cut one of our own blades in two like butter. Our modern ink fades in five or ten years to rust color, yet the ink of mediaeval manuscripts is as black and bright today as it was 700 years ago. The beautiful blues and reds and greens of antique Oriental rugs have all been lost, while in Egyptian tombs we find fabrics dyed thousands of years ago that remain today brighter and purer in hue than any of our modern fabrics. We cannot build as the ancients did. The secret of their mortar and cement is lost to us. Their mortar and cement were actually harder and more durable than the stones they bound together, whereas ours-horrors! We can't even make artificial diamonds now, Old brilliants of French Paste were so beautiful that they could hardly be told from real brilliants by experts. But the secret of this French paste, like a hundred other secrets of the days of conscientious work, is irretrievably lost.

#### A NEW INDUSTRY AND A NEW DANGER.

That the bogs of Ireland would furnish an unlimited supply of peat, and that peat will furnish alcohol, is one of the suggestions made in "Knowledge" by Mr. C. Ainsworth Mitchell, F. I. C. A few years ago the problem of obtaining fermentable sugar on a commercial scale from sawdust was successfully solved and experiments on similar lines with peat as the raw material have recently given promising results. It is well known that when starch is treated with a dilute acid it is converted into sugars and dextrins which can be more or less completely fermented by yeast, and a similar change can be effected, though less completely and with more difficulty, by the action of acid upon cellulose, which forms a chief

constituent of both sawdust and peat. Ordinary peat containing about 62 per cent. of water was boiled for 15 minutes with dilute sulphuric acid in a closed copper vessel under a pressure of three atmospheres, after which the mass was expressed under moderate pressure, and the filtrate neutralized with chalk and separated from the resulting gypsum. It was then fermented in large tuns with a special yeast and a portion of the alcoholic product distilled. The distillate contained 51/2 per cent. of alcohol corresponding to a total calculated yield of 751/2 litres of absolute alcohol from 225 kilos. of peat. A systematic study of the effect varying the conditions as to the amount and concentration of the acid, the time of treatment, and the pressure will probably lead to a process which shall produce a stronger saccharine solution, and, consequently, a "wash" richer in alcohol.

#### WELSH MINERS.

Mr. Joseph Keating, addressing a meeting of the Cambridge University Welsh Society, gave an interesting picture of social life among the Welsh colliers of Glamorgan, with whose characteristics he displayed a most intimate acquaintance. He said the Welsh colliers were worth studying at the present day, because they were the children of the poets who gave to the world the poem of King Arthur. The lecturer contended that an instance of the Welsh collier's superior quality was that he had a very high standard of living. The or-dinary workman in the ordinary industrial community was contented with merely a house to come to, not caring how the place was furnished. The home of the Welsh had to be properly furnished, and the height of his ambition was that he should have a chest of drawers, a Bible, and a piano or harmonium. Speaking of the collier's love of music, the lecturer said there were musical geniuses and real poets in the pits at the present time. The present Archdruid himself was a Welsh collier. Some people said he was equal to Swinburne, except that he had not Swinburne's music and more philosophy.

The editor of The Record has not come frequently into contact with Welsh miners, but he has visited and inspected their homes, and any one who has done so must have been impressed with their tidiness, the neatness of the gardens, and the general orderliness about the premises. Some of the miners' dwellings are, as in this country, in rows, and yet at the same time they may be said to be detached cottages. The houses, in one place visited, were elevated about five feet above the level of the streets and twenty feet or so back from the roadway. A stone wall four feet or so high divided the plot in front of each house from the street.

There was a low wall between each house, and each had a separate way to the street. Flowers filled the plots and one was impressed by the general effect.

#### WHAT THE DOCTOR SAYS.

Dr. G. Arbour Stephens, of Swansea, giving evidence before the Departmental Committee of the House of Commons appointed to inquire into the advisability of establishing a working eight hours' day for miners, said the Welsh collier was a better man all round than the tinplater—heavier in weight, better in morals, and a more moderate drinker. The Welsh miner suffered to some extent from bronchial catarrh, but that affliction arose not from the atmosphere of the mine where he worked, but because of a curious custom in Wales of standing at street corners. "The miners of Wales," he added, "are fond of meeting in stuffy rooms and chapels, and that affects their health." The Welsh collier intellectually was a better man than the average English miner.

Professor Redmayne — Better than the Northumberland miner?

The Chairman (Mr. Russell Rea)—Ah, that is another exception. (Laughter.)

The Witness—But they beat the Northumberland miners for music.

The Chairman — The shorter the colliers' hours are the more discontented the men be-Yes, because in the Welsh hills there is nowhere for the miner to go to except the public-houses. The tinplate workers drink more than the colliers? Yes. And they have more time to consume drink?—That is so. The minimum of work is not synonymous with the maximum of health?-Too much work would

### WELSH AND AMERICAN METHODS.

Mr. Henry Davies, Director of Mining Education for Glamorgan, who recently returned to Wales after a prolonged tour in the United States, lectured before the Pontypridd mining students a short time ago. Among other things he said there was a danger of the Welsh student beguiling himself with the idea that he makes sacrifices for the acquirement of education. Really there was no comparison in this respect between him and the American student. The latter, throwing pride and snobbishness to the winds, readily availed himself of any and every kind of work which would afford him the means of maintaining himself at school, college, or university. He was not above assisting at furniture removing, snowshovelling, and even waiting upon his more fortunate school-fellows; and the lecturer instanced amongst others Harvard University, where 800 of the students earn their own living. To be more successful in the future even

than in the past, the Welshman must have brought home to him the necessity of making even greater sacrifices in the interests of true educational progress than he is now in the habit of making. A great deal has lately been said of the superior technical knowledge of the Germans as compared with the British. Mr. Davies evidently is not greatly exercised over this alleged superiority, for, turning to the educational side of his subject, the lecturer declared that a careful examination of the scheme of instruction for workmen in France, Germany and America found Wales well to the fore in this respect. He had no hesitation in declaring that in none of these countries was there any scheme in operation which would bear comparison with the scheme operating in Wales for the betterment of the young workman; and regarding the scheme of mining instruction under the Glamorgan County Council, President Roosevelt was so pleased with the work done at the evening classes under the scheme, that he is despatching to Glamorganshire a special commissioner to investigate and report. The lecturer wound up with an earnest appeal to the mining students to make the most of the opportunities now offered them, and to do their best to secure a scholarship out of the seventy offered for travelling, etc., by the education committee during the summer

### RARITY OF PIT-CAGE DISASTERS.

In connection with the pit-cage disaster at the Orgreave colliery, near Sheffield, it is interesting to note how few accidents really occur during winding operations at our collieries. This fact has been clearly demonstrated by Mr. T. Rateliffe Ellis, the solicitor and secretary of the Mining Association of Great Britain, the Federated Coal-Owners, and other bodies connected with the coal mining industry. Mr. Ellis, in his evidence before the select committee who had charge of the Steam Engines and Boilers (Persons in Charge) Bill, showed that in a given year, the latest for which statistics were available, there were 324,223 men employed underground, and supposing the pits worked an average of five days a week for fifty weeks, it would mean that 156,000,000 were lowered into and raised out of the mines. Taking an average of ten persons in a cage, this would involve no less than 31,-000,000 windings. Now, in the year under consideration there were ten overwinding accidents, which involved the death of five and the injury of fourteen persons. Presented in this light the facts were sufficient to warrant one eminent witness declaring that "a cage seemed to be one of the safest places to be in if the figures can be trusted."

#### 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. Subscription \$1.00 a year. Single Copies 5 cents.

#### R. DRUMMOND, PUBLISHER.

STELLARTON, N. S.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* WABANA, AS IT STRUCK ME.

-BY THE EDITOR -

I had long had a desire to see Wabana, with my own eyes instead of through those of others. So many accounts had I heard of the place and its iron ore, the one varying from the others that the conclusion forced upon me was that the whole truth could be reached only by personal observation. Rather unexpectedly, through the courtesy of Mr. Thos. Cautley of the Nova Scotia Steel and Coal Co'y, opportunity was offered me to visit the

Wabana should be reached from North Sydney barring fogs in forty hours, but as fogs have a fondness for the Banks of Newfoundland, it is not safe to bank in accomplishing the distance in schedule time. But for the fog the ship could have made the run in thirty-eight hours; as fog followed us from a few miles after the start to a mile or two before the finish, the time from port to port was forty-six hours. The vessel is Norwegian and so is all the crew with one exception. All the passengers are Scots. I had been told that one could not sail with a better than a Norwegian captain and crew and I had been rightly informed, Captain Ellefsen of the Sommerstad is all that a captain should be from a landsman standpoint, sociable, affable and considerate. And the steward was all right too, this also from a lands-man's, with a fair appetite, view point. I had formed the impression that in order to run their steamers cheaply that the table fare was meagre and lacked variety. That was a huge mistake. If in all vessels flying the flag they live as in this, then they know how to live and do it. As to the accommodation, it was good and there was more of it than on a big liner.

And so this is Belle Isle. However in the world did it get that name. Where are its beauty However in the spots. Certainly there are high and jagged cliffs and there is a nice little piece of shingle; it is wild not beautiful. Over and beyond the cliffs there may be something beautiful but there is little beauty about the Island viewed from the land. And the landing place, well it may be-to some to their plans, and discarded ornamentation.

As soon as the ship was berthed Mr. R. Chambers, who in addition to his duties as chief geologist for the company is superintendent of operato visit the mine. The exit from the vessel is ac-

complished by a long step ladder, stationed on the land and which can be lowered to any desired angle. The pier is solidly built of, presumably, pitch pine. We walk on the ground floor and visit first the endless haulage engine. The plant consists simply of three or four upright boilers and an engine. This engine hauls the ore from the mines to the pockets, the distance being two miles. The engine is situated at the bottom of high cliffs. The ascent to the surface or table land is made by an open air elevator. The height is several hundred feet. The ride is a smooth and an easy one, and is attended with no more risk than the ascent in a mine shaft. The descent, he great length of it being visible, must be rather trying on weak nerves, more especially as the end of the platform, looking seaward, is open. Asked why there were no end guards the reply was that the hoist is for freight particularly and incidentally only for passengers.

Belle Isle is not a barren island. Though one might not expect it in proximity to minerals obtruding on the surface, the soil is good and productive, There are numerous farm houses visible as one drives over the road leading to the mine. The roads are fairly good and the ground is hilly. There is strictly speaking no village small or otherwise on the Island. There are a half dozen, or more, well equipped country stores. Each of the companies working the ore mines have short rows of houses, but the number of company houses is comparitively small. The Nova Scotia Steel Co. are building a few, not more than half a dozen this summer. Labor is no more abundant here than at the Nova Scotia coal mines. A number of Italians were brought out in June, but there is still a scarcity. A sense of lonsomeness induces many to make a short sojourn at Wabana. There are few amusements and few society meetings. The Methodists, Episcopalians and Roman Catholics have places of worship; the Presbyterians are too few in number to support a preacher. Though Belle Isle may be a little lonely, it is not so far out of the world as some think it to be. It is only eight miles from Harbor Grace and nine from St. Johns. A proportion of the workmem are Nova Scotians, and the bosses mostly come from there too. The miners are paid by the day. The company might prefer to pay by the ton but a majority of the men object. As an inducement to big outputs the company pays a bonus on every ton of ore mined over and above a specified quantity. The ore until recently was quarried on the surface rather than mined. From this out a large per centage of the ore will come from the slopes which have been sunk to the deep. There is still a very large quantity of the ore near the surface which will gradually be worked away. The Nova Scotia Steel & Coal Co. has from fifteen to twenty million tons of ore ou its land leases. quantity in the submarine areas is a matter of conjecture. The hope that it may reach five hunpieturesque—a trifle romantie and that is all. It dred million or even a billion tons is not a foolish was not built for beauty, and the builders stuck airy vision. The Nova Scotia Steel Co, is now driving to the submarine areas-there are a number held by the company-through the Dominion Iron & Steel Co's area; this by arrangement. The slope has been driven 1200 feet into the sea tions of Wabana came on board and we arranged areas. Back at the crop 2800 feet the ore was only 6 feet thick. At the face of the slope the

thickness is 15 feet, with the promise of continuing to maintain that thickness. The quality of the

ore has, besides, appreciably increased in value. From the shore of Belle Isle to the opposite shore the distance is eight miles. intervening, of course very little is known though Of the strata much may be surmised. On the other side exploration has shown that there is an upheaval of but it is hoped that they do underlay several The exploratory work done so far in the submarine area warrants the belief that the ore beds are much more extensive than they were left the mine

The ore on the surface is quarried, that to the esty of purpose of the advocates of shot firers, it though there may be no holeing or shearing. The drills in the mine are driven by compressed air. The miners are paid a set wage for a certain amount of tonnage or less; if the quantity sent out able and to that extent the effect will disappear. is allowed. The system is one between days lab- coal that can be profitably underent by hand or bed, the ore from the mines to the pier is carried

The Dominion Iron & Steel Co. are driving ininto the overlying seam. The latter in its under-

er than at a coal mine, as there is no fear of overheating or of crushing. picked. The conveyor that receives the ore from how the Wabana ore is of such uniform size; it is they assume crushed. The opinion in Nova Scotia was that the ore came away in the shape of cubes when sectionsly affected by the use of a large quantity

Brick must be expensive in Wabana, as in nearly all the company houses that I saw the chimneys were constructed of stove pipe. of course gives them a plebeian appearance.

Water is very scarce in the summer season.

When one walks around Dom, No. 2 and views the tremendous power plants, steam, electric, and compressed air, and is told that still there is a shortage he begins to ask where it all goes.

### THE EMPLOYMENT OF SHOT FIRERS.

In his annual report, Chief Mine Inspector Harrison, of Ohio, says in part, relative to this

"A great many labor leaders and others advocate shot firers as the acme of relief for all the the metals, therefore it is not thought that the large quantities of powder are used in one blast in coal mines, and legislarive bodies in several mining states have enacted laws providing for shot firers in mines under such circumstances, the blasting to be done at night af er the miners have

The ore on the surface is quarried, that to the early of purpose of the advocates of shot after the deep is mined much after the fashion of coal minis evident that a great many of them are not considering this important question in the broad sense it deserves and should be considered.

"The best manner of dealing with the question is to remove the cause of danger as far as practic-

or and contract. Owing to the excellent system machinery. If there is any that cannot be successfully mined in that way, it may then be necat a triffing cost, not more than two cents a ton, any mine, where, from the presence of fire damp. or any other cause, shot firers would be necessary, to the underlying and the Nova Scotia Steel Co'y, sufficient volume of air—as all mines ought to be ground operations is therefore keeping well in day so as to promptly dilute and carry away the As there is no shipping in the winter season practical experience, good judgement, and clothed the ore is banked. The bank is very much high—with a great deal of discretionary power in the powder smoke. Shot firers should be men of wide with a great deal of discretionary power in the firing of shots. There are no end of reasons, which are well known to any good, practical minprocess. The conveyor that receives the ore from or, that shot using at high has many disadvant-the crusher is not level but set at a fairly steep ages and entails considerable loss and annoyance angle. This is to permit careful picking and the to the best class of miners; besides, the fatilities to shot firers in the last year bespeak the dangers

There are some kinds of coal that are most of powder in producing it, but the most of bituminous coal, where blasted before being undercut, is so jarred and the effects of the powder so dis-This seminated through the seams and facings of the toin, that when the product is exposed to the at-All the little pools have to be utilized. The Nova like quickline, and before it is handled two or Scotia Steel Co'y, is thinking of putting in a plant three times it reaches its destination greatly defor the purpose of making fresh water from sait, preciated in value, disappointing to the consumer The pier is a strong structure, and the ore and a source of annoyance to the shipper. The pier is a strong structure, and the ore and a source of annoyance to the supper. The poeket is a huge affair, in an angular crevice in roof in the mines is so jarred and shaken by contact in the clift. It holds some 24,000 tons. The convey-timal carthquake-like concussions from ridicalor buckets are about 2 ft, wide and 6 deep. Each ously large charges of powder used by unskilled or onescess are about 2 it, wine and o deep. Each onesy targe energies or powder used by unskined bucket is a large carrier, and the conveyor as a miners, until the inevitable result is a grinding whole carries easily 1500 tons an hour. The whole creep or squeeze gradually crawling over the mine, plant is in excellent condition, and reflects much destroying airways and haulage ways, entailing practices in excense condition, and renects much describing an ways and manage ways, entaining credit on Mr. R. Chambers, General Superinten-unnecessary and endless expense, and burrying in the earth hundreds of thousands of tons of pillar coal which could be mined cheaply, brought to the surface, and added to the commercial wealth and prosperity of the State.

"The great amount of fine coal and dust gathered along the sides and roof, and scattered through every chamber of the mine, is a continual source of danger, combustible in its nature

and always liable to cause destructive mine fires. and at any moment a "blown-out" or "windy' shot may take place, igniting a quantity of smoke or gas, raising and igniting the dust and carrying destruction and death through every part of the There may be seams of coal that cannot be profitably mined at this day to compete with other productions unless this method of mining is resorted to, but it is very questionable if there is any justification for developing a mine in a seem of territory of coal surrounded by natural disadvantages to an extent of inability to meet fair competition and making calculation on overcoming that inability by the sacrifice of human life and limb. Aside from this, it is safe to say that 90 per cent. of all the coal blasted off the solid in Ohio can be successfully and profitably undercut either with hand or by mining machines. The argument is usually advanced that it would cost more to produce the coal-which, in some instances is probably true-but the enhanced value of the product would far more than offset the extra cost, independent of all the destruction to property, waste of coal and sacrifice of life and limb, besides preference would be given to skilled min-

#### SPRINGHILL NOTES.

Again Springhill is in the grasp of the strike flend. We are in no doubt this time as to what the trouble is. The continent at large knows. There is no room to doubt as to who is responsible as the strike is the result of the finding of the late Board of Arbitration which was applied for by the men themselves. The case when the truth was got at, was so plainly against the men, their claims so evidently a mere hold up for more money, that in the face of the wages made, the Board could only in justice decide against them.

The present strike in Springhill is. I suppose, one of the most unwarrented that ever the miners of even this strike ridden community ever engaged in. The baby that reaches for the moon, and not getting it, cries, has more logic and reason in its claims than have the men of Springhill in this strike, looking at it from the labor standpoint.

The second application for reference by the men of Springhill, under the Labor Disputes Act, which was granted by the Minister of Labor. The Board composed of R. B. Murray for the employees, J. C. Archibald for the company and Judge Patterson was appointed by the government to preside as the third man on the Board. The Board convened in the Y. M. C. A. hall and the first session was taken up by the employees in presenting their side of the case. When finished the court adjoinred till next day. Next day the men were on strike, against the advice of the Board and of the best thinking men of the community. There is certainly a lack of manliness and an absolute indifference to public opinion, law or decency in this act.

This strike, from the present outlook, will be the most serious one that ever occurred in Springhill.

The management are arranging for the withdrawal of the horses from the several slopes.

The mines are said to be in good condition. It is a pity that better use should not be made of them at this busy time of the year.

The causes of strikes are many and varied, viz: For shifting a man who was designedly and deliberately robbing the company. For shifting a man out of a position where the strikers themselves complained of his insolence and inefficiency. For the replacing of a young man who was discharged for disgustingly illusing a horse in the mine. To reinstate a young man who deliberately left his place in the mine without orders or reason. But the latest caps the climax of absurdity.

Several large buildings which were contracted for in Springhill, and would have been started in the near future, have been abandoned indefinitely.

#### SOME U.S. MINES REGULATIONS.

In Pennsylvania, winding or hoisting enginemen must possess a certificate before they can be employed as such. In the matter of ventilation, in Pennsylvania, for every 75 men employed, there must be a separate split of fresh air. In Indiana every 50 men must have a current all their own; in Illinois a split must be made for every 100 men employed, and in this state the firemen must measure the air at the last working place in his district daily, as well as any other place which he thinks necessary; the result to be recorded in a book kept for the purpose, and available for examination by the inspector of mines. In Ohio the air is measured and registered once a week. There is no doubt that unskilled labor is largely responsible for the large number of accidents, and a bill is about to be introduced to make it criminal to employ any person in the mine unless he has a certificate of competency from the Miners' Examining Board. As showing the cosmopolitan character of the population, in Pennsylvania the special rules are printed in 32 different languages, so that there is little excuse for a man that he does not understand the mine regulations. In Colorado, where the death rate in mines is highest, being 5.35 per 1,000, 88 lives were lost in 1905, 52 per cent. being due to falls of roof and sides. Of those killed 12 were Americans, 4 Scotch, 10 Slavonians, 7 Austrians, 2 Germans, 2 English, 25 Italians, 8 French, 4 Hungarians, 3 Japs, 1 Finlander, 2 Tyrolese, 5 Mexicans, 1 Swede, 1 Polander, 1 colored.

Of the 3,644,416 miners in the world the United Kingdom, according to a new return, has the largest number of any nation—974,-634. Germany has 814,352; the United States, 607,069; Russia, 344,255, and France, 322,536.

## AROUND THE COLLIERIES.

Repairs are being made to the travelling way at Dom. No. 3 Colliery,

Mabou Colliery is getting under way again and is over its financial difficulties.

Cape Breton mines. According to their size they perform a great amount of work.

Some very large falls were encountered in Hub Colliery, which goes to prove the disastrons effect of water upon the hardest strata.

A trotting park is being built at Dom. No. 2. and bye and bye Sydney won't be in it. Norman may yet challenge J. R. Cowans and Jas, McVey

No. 1 Colliery and outputs fairly good. Several falls has of late somewhat interfered with the generally supposed. days work. The Russian londers are all gone and no regrets are expressed over their departure.

Inverness Colliery stands first in the province gards output per man. The mine is in good conthis year in increased output. To give all the crethis year in increased output. To give an the cre-dit to Manager Beaton would be giving him more ger and his men stands for the best results then colliery idea are past.

Dominion No. 5 is now showing some of the output from narrow work in Dominion No. 5 good out time outputs, the new bank head and there is not a loader in the sould side and when machinery is working well and the look of the machine runners have to cut the coal and load it mine has very much improved this year. The as well, there is not much coming out. much time was required to get the bottom roads and the rope haulage into shape,

Things are ruuning well at Dom. No. 6, and the coal is good. Underground Manager McDonald is thinking of going west on a trip. Many visitors are seeing this now famous mine, and are expressing themselves as pleased with what they see. To say that the miners are in sympathy with the law suit in Sydney and the statements made as to the quality of their coal is not stating all the truth. One is reminded of the Tom Lawsons stories re the Phalen seam.

Messrs Allan, Whyte & Co., Clyde Patent Wire Rope Works, Rutherglen, Glasgow, have just completed the manufacture of three large winding pieted the manufacture of three large winding ropes for the East Rand Proprietary Mines, Ltd., South Africa. The Ropes, which in the aggregate measure 15,000 and weigh 20 tons, are made on the taper principle to meet the problem of winding heavy loads from great depths. ing heavy loads from great depths. They were inspected during manufacture by Mr. N. Wilson, Cousulting Mechanical Engineer for the Group, who is at present in this country. Messrs Allan, Whyte & Co. also made some little time ago three lengths for the Jupiter Gold Mining Co. Ltd.

This new mine-Dom. No 10-is now running smoothly with its new haulage, and good coal is coming out.

Electric pumps have proved very successful in liery again with its new bankhead and colliery again with the colliery again with the colliery again with the colliery again with the colliery again with t buildings. Coal is expected to be raised sometime

Dominion No. 8 colliery is doing good work as in olden times. The motor at the water shaft was burnt out and caused a lot of delay in getting the water out

Everything is running smoothly at Dominion last depends largely on the state of the weather, The mine is more affected by rain falls than is

dition and everything running well. Of course No 3 is the model mine, and is to be the pattern that his share, but if harmony between a manafor all future collieries. The days of the large

A shortage of loaders is seriously handicapping good old time outputs, the new bank head and There is not a loader in the south side and when

An unfortunate accident took place lately at Dominion No. 9 colliery, causing the death of one of the old respected citizens, John McMullen, he was at his work as shiftman, when a stone fell on him causing his death.

Possibly no more able successor to the late Dr. Gilpin could have been selected than Hiram Donkin. With his large experience in building Railways, Piers, etc., and in managing coal mines Mr. Donkin is well equipped for the position of Deputy Commissioner of Mines and Railways or whatever name they may choose to designate for him. By the miners of Cape Breton he has always been held in the highest respect, who look upon his appointment to the mines department with a great degree of pleasure. They feel that mining matters will be in the hands of a sound, practical man of business, who understands the importance of the coal industry as well as the problems presently surrounding it. From what we know of him no parsimony will be permitted to stand in the way of the able administration of the affairs of his department. We are pleased to note the selection of Mr. Rob. Anderson as assislengths for the Jupiter Gold Mining Co. Lad, the local government have choosen the present south Africa, on same principle and which weighfor changes much needed in the mining department,

#### WHERE THEY BEAT US.

The builders of the old world were more ambitious than our own. No such theatre has ever been built in the modern world as the Colisseum with its diameter of 615 feet, its height of 164 feet, and its seats for 100,000 people. No wall has ever been built to equal the great wall of China, which runs 30 feet high and 24 feet thick for 1,200 miles; and the pyramids remain the wonder of the world in the twentieth century as in the first. Ancient Egypt had twelve palaces, each with 3,000 miles 100 feet high, and wide enough for three chariots to drive abreast along the top. Who builds so well and on so magnificent a scale today?

#### OIL FOR FUEL IN WARSHIPS.

Hitherto oil has been a supplementary fuel on war vessels. It has been used in conjunction with coal, and many of Britain's big warships today are fitted with both tanks and bunkers, and use the two fuels, some in one furnace, some in another. A notable example of using oil and coal mixed was Admiral May's raid on the English coast in last year's manoeuvres, when he dashed away from the pursuing enemy by spraying oil on to his coal, the effect being to stimulate the boilers as if they had had brandy given to them. But in British smaller vessels coal is disappearing altogether, and soon nothing but oil will be burnt. This is leading to a reduction of the engine-room staff, for fewer men are required, though they have to be highly skilled.

. The United States navy department has directed that the U. S. S. Wyoming be prepared for burning fuel oil, and plans for fitting oil tanks in the bunker spaces have been made by the bureau of construction and repair. Experiments will be made with the Wyoming, equipped with oil burners, to determine the feasibility of using this fuel in the navy. fuel has its disadvantages as well as advantages, and it would be interesting to learn the result of a shell being exploded in the oil tanks, whether these be a proportion of the double hull or some interior arrangement. Well-filled coal bunkers almost serve the purpose of armor plate, and are relied upon to protect the vitals of the ship. Oil tanks, it seems to us, would serve to add a distinct element of danger to a vocation which is quite dangerous enough at the present time.

Of the 3,644,416 miners in the world the United Kingdom, according to a new return, has the largest number of any nation—974,634. Germany has 814,352; the United States, 607,069; Russin, 344,255, and France, 322,536.

#### THE BRITISH COMPENSATION BILL.

That the new Compensation bill is drastic and far reaching may be gathered from the following taken from a British paper:

"Although some legal authorities maintain that ministers are 'contractors' and not 'workmen,' Mr. A.J. Shepheard advises churches to be on the safe side and to insure them for the purposes of the Workmen's Compensation Act. Ministers, he declares, are 'workmen' if they have a salary of less than £250 a year, and under the act can claim compensation for injuries incurred while acting in discharge of their duties. A minister who in a moment of emotional enthusiasm while preaching tumbles over the rostrum rail, or while ascending the pulpit steps stumbles and injures his kneecap, or while visiting a sick parishioner falls down a dimly-lighted staircase and damages his skull, can legally look to his church for financial compensation. If, on the other hand, he slides on a piece of orange-peel on a post-office floor while buying postage stamps for his private correspondence, counsel's opinion might advisably be taken before he sues his people for damages. To the Council of the Congregational Union on Monday, Mr. Shepheard, in his capacity as legal adviser, hinted at these hypothetical cases, and strongly advised churches to insure not only their ministers but their chapel-keepers, and even their chapelkeepers' wives (if they, by agreement or understanding, help in the work), the charwoman, the organist, the blower, the gravediggers, the paid choristers, the Biblewomen and the nurses. Mr. Shpeheard's advise included a caution against any but thoroughly sound and reliable insurance companies which make it clear that they take all the risks under the act, and do not evade responsibility by vexatious clauses about 'the insurer taking reasonable care.' Probably some enterprising company will devise an omnibus policy to meet the cases of churches, and at premiums which will not burden the small churches, upon whom the greater responsibility falls."

'The lack of money in a community,'' says Andrew Carnegie, 'means squalor—ignorance—disease. Look, for example, at the wonderful changes that are now being wrought in some of the Southern States, through the growth of business. Until recently they had no solid financial basis. There yas no capital and no development of natural resources. Today new railways and fine office structures and homes are being built in these States. Life has been raised to a higher level. Better schools and larger libraries are being established. And what has been the cause of this transformation! It was not politics. It was business."

## The Standard Drain Pipe Co.,

New Glasgow, Nova Scotia,

Sewer pipes, Culvert pipes, Flue-Linings, Chimney Tops, Etc., Etc.,



Prices on Application.

for underground and Surface work.

Best Wages Going.

Apply in person to Mines Office.

### Intercolonial Coal Mining Co. Limited.

WESTVILLE, N. S.

June, 6, 07.

AN AMERICAN SAFETY-LAMP TEST.

One of the Pennsylvania mine inspectors, believing that practical tests are of as much importance as a theoretical examination, has arranged a practical demonstration by which miners making application for certificates will have a chance to display their knowledge of gas. Suspended from a rope in the ceiling of a room provided for the purpose, this inspeca room provided for the purpose, this dispec-tor has a large glass globe into which he turns a jet of natural gas, until it is filled. The windows are then completely darkened, and the interior of the room is identical with that of a gaseous mine, so far as light and atmospheric conditions are concerned. Each candidate for a certificate is given a safety-lamp and rea ceromente is given a smer, manp and re-quired to work it in pure air, mixed air and gas. In this way it can soon be determined whether or not the men know the utility of the safety-lamp, and are efficient in its use. This test is, of course, supplementary to the oral examination required.

## Priestleys

### Lustres

1990

Have Excellent Wearing Qualities,

WILL NOT COCKLE :: WITH RAIN :: :

Best for\_

SPRING AND SUMMER SHIRT WAIST SUITS.



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

## CURTIS'S & HARVEY, LTD.

## PIOSIVES

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.C.

AGENTS FOR NOVA SCOTIA

AUSTEN BROS. HALIFAX.

## Foundry Co.,





CAST STEEL BRONZE BUSHED. SELF OILING

PERFECT GYRATORY STONE CRUSHER.

CRUSHING ROLLS. ELEVATORS, and Gold Mining Requ



HADFIELD'S PATENT

(Solid Steel Construction.)

The Parts that are subject to Excessive Wear are made of Hadfield's Patent 'Era' Manganese Steel and other Patented

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

PEACOCK BROTHERS, Canada Life Building, Mor

## CHAIN

All Sizes in Stock.

## EDGES" BEST SPECIAL CR

Cannot be Excelled for HIGH CLASS QUALITY and WORKMANS 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.



Edge & Sons, Limited, SHIFNAL, England

Draw Bar for Coal Car. Tel. address "Edge" Shifnal. "Codes" A. B. C. and Bedford McNeills"

## We carry a Complete Stock of

Detachable Link Belting and other ELEVATOR CHAIN.

Mine Elevating and Conveying Machinery, Such as

Elevator Boots, Buckets, Gears, Friction Clutches, Shafting, Hangers and Pulleys. Send Us your Specifications.

he Canadian Fairbanks Co.,

Montreal,

Toronto.

Winnipeg,

Vancouver.



#### Synopsis of Canadian North-West. Homestead Regulations.

Homestead Regulations.

Any even numbered section of Dominion Lands in Mantloba or the North-West Provinces, excepting 3 and 5, not reserved, may be homesteaded with the Mantloba of the Mantloba of the Mantloba of the Mantloba of the Application for homestead entry or inspection must be made in person by the applicant at the office of the local Agent or Sub-Agent, at any sub-agent of Sub-Agent, and the Application of the sub-agent of Sub-Agent, at the sub-agent of Sub-Agent, and the Application of the hard principle of the Mantloba of the telegram used files applicant, and if the land applies for its recant on receipt of the telegram used applicant, and if the land applies for its recant on receipt of the telegram used applicant, and for the Application of the Naw Provinty of claim.

In case of 'personation' the entry will be a "unmarily cancelled and the applicant for inspection must be eligible for homestead entry, and that application has been disposed of.

At homesteader whose entry is in good standing and not liable to cancellate the Application of Abandonment.

Where as entry is ammarily cancelled, or voluntarily abandoned, subsection of abandonment.

Where are there is ammarily cancelled, or voluntarily abandoned, subsection of a bandonment of the Applicant for inspection must date in what particulars the homesteader in default, and if subsequently the Attenent is found to be incorrect in Applicants for inspection such date in what apprication of a shandonment and the subsequently the Attenent is found to be incorrect in the Land Decome exacts, or if entry has been granted it may be summarily cancelled or of the following plane over a superior of the following plane of t DUTIES, ... A settler is required to perform the conditions under one of the

canceller. — A settler is required to perform the conditions under one or toplote the plane of the plane of

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

COAL. Coal Lanks may be purchased at \$80 per eare for soft coal and \$25 for authractic. Not more than the scenes can be acquired by one individual or substantial to the second of the property of the second property. The second property of the se

Placer mining claims generally are 100 feet square : entry fee \$5 renew Placer mining craims generally are 100 feet square; chiry fee so renew-able yearly.

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

Interior.

The lesses shall have a dredge in operation within one season from the date of the lease for each five miles. Reutal 400 per annum for each mile of river leased. Royalty at the rate of 21-2 per cent collected on the output after it exceeds 810.0.

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

Head Office Head Office
187 Hollis St., HALIFAX
Advantages over Individual
1 Trustees:
Permany, Absolutely Confidential
Trust not imperilled by failure or
dishonesty. It does not resign
Equipment for safeguarding securities.

Apply te, Bank of N. S. fer foldem.

### **Miners Wanted** DOG TOBACCO,

Because it is the only Tobacco which does not excite Thirst for Water after using.

#### TRY IT!

The St. Lawrence Tobacco Co., Ltd. Montreal.

-W. B. Reynolds, Halifax Representative-

#### Brick! Brick!

#### The Westellar Terra Cotta Company

having taken over the business of the Stellarton Brick and Tile Co'y, and having installed more powerful and modern machinery, WILL BE PLEASED TO HAVE ENQUIVES AS TO PRICE AND QUALITY.

Works -- SYLVESTER Has mes-STELLARTON.

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

### ROBB POWER PLANTS.



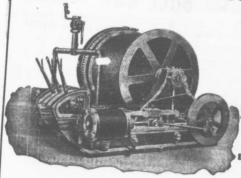
We design and contract for steam power plants and maintain an experienced and thoroughly practical engineering staff that is at the service of our customers.

CORLISS ENGINES. HIGH SPEED VERTICAL ENGINES. MEDIUM SPEED HORIZONTAL ENGINES.

> ROBB-MUMFORD BOILERS. RETURN TUBULAR BOILERS, WATER TUBE BOILERS.

Robb Engineering Co., Limited, AMHERST. N. S

## Lidgerwood" Hoisting Engines.



This is a view of our combined friction driven and brake and reversible link motion hoisting en-gine. The most economical for mining purposes ever built.

We are the exclusive builders in Canada of the "Lidgerwood" Hoisting Engines, the standard of the world for mining and general contracting.

Works, Montreal.

Branch Office, New Glasgow

## Allis-Chalmers-Bullock, L't'd.

Contractors to Admiralty and War Office, also Colonial Governments.

## ALLAN, WHYTE & C'O'Y.

Clyde Patent Wire Rope Works, Cablegrams:
"Ropery Ruthergien," Ruthergien, Glasgow, Scotland. Cales, A. B. C. (1th, 4 2th Edg)
"Ropery Ruthergien," Ruthergien, Glasgow, Scotland.

WIRE RODES 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 Haul-The Nova Scotia Steel & Coal Co., Ltd., who use our nopes largely, write that one of our manage Ropes at Wabana Mines has been in service for over 5 years, drawing over 1,750,000 tons in that time and is still good for further considerable service.

Agents in Nova Scotiar Wm. Stairs, Son & Morrow, Ltd., Halifax.

Agents in New Brimswick W. H. Thorne & Co., Ltd., Saint John

-Different Sizes and Qualities kept in Stock-

CAPE BRETON N.

SUPERIOR

The Nearest Coal Port to Newfoundland

Just Inside Entrance Great Bras doR.

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

J. T. Burchell Manager.

### INVERNESS IMPERIAL COA

INVERNESS RAILWAY and COAL COY. Inverness Cape Breton.

Miners and Shippers of INNERNESS (BROAD COVE)

Screened, Run-of-Min Slack.

-First Class both for Domestic and Steam Purposes. -

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. 22, Taking effect at 1 a.m. June 17th. 1907.

Read Down				WESTBOUND			
		STATIONS.	Read Up				
No. 52 a. m	No. 54 p m	DIMITIONS.	2	No. 5	12	No.	
L 11 25 S 11 31 A 11 50	L 4 00 8 4 05 A 4 123 F 4 35 S 4 48 F 5 10 F 5 28 A 5 43 L 5 48 S 6 26 S 6 28 S 6 28 S 7 7 25 A 7 25	P. TU PPRE JI NOTION PORT HAW KESBURY PORT HASTINGS TROY CREGIONSH JUDIQUE CREGIONSH JUDIQUE CREGIONSH JUDIQUE CATHERINES POND PORT HOOD GLENOOR GLENOOR GLENDARE BACK RIVER STEATHLORNE INVERNESS	ASLAFSFSFLASSSFSL	11 10 10	13 15 15 15 15 15 15 15 15 15 15 15 15 15	- 3	25 17 00

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

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

#### DIAMOND COAL MABOU

Burns and Works like Bituminous:

Looks and Lasts Like Anthracite:

IT HAS NO EQUAL.-

Mines, Pierr and General Offices MABOU. CAPE BRETON.

## ADVERTISE IN THE MINING RECORD.

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

BRIDGES

TURNTABLES, ROOF TRUSSES STEEL BUILDINGS ELECTRIC & HAND POWER CRANES

Structural METAL WORK of all kinds BEAMS, CHANNELS, ANGLES, PLATES, ETC., IN STOCK

### Users of Steam

IF YOU WANT TO SAVE FUEL, Use

B. & W. BOILERS, Over 6,000,000 H. P.

Patent Steam Superheaters, 2,000,000 H. P. in Use.

Mechanical Stokers, Coal Conveyors, Electric Cranes.

-Circulars and full information on application.-

## Head Office for Canada......

.........11 PLACE D'ARMES, .....TRADERS BANK BUILDING, TORONTO

## A. &. W. MacKINLAY

LIMITED

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

> BLANK ECOKS ruled to pattern and and made in any Style of BINDING Loose leaf supplies of all kinds made to order

135 to 137 GRANVILLE STREET.

HALIFAX, N. S.

### George Patterson,

BARRISTER, SOLICITOR, ETC. NEW GLASGOW, N. S.

## 利利作作

Best all round flour on the market.

Uniform in quality. Every barrel can be depended upon. This flour can

only be had in Cape Breton at the stores

of the Dominian Coal Company,

Rand Air Compressors,

"Little Giant" RockD rills,

Harrison Coal Cutters,

Davis Calyx Core DRILLS,

"Imperial" Pneumatic Tools.

CANADIAN RAND COMPANY. LIMITED.

### Sullivan Rock Drills.

ifax Office, 116 Hollis St.

Costs less for Maintenance, and drill faster than any other Drill on the Market. May we tell you why?

CATALOGUE 51.

### Sullivan Machinery Company.

I. Matheson & Co. Limited, Agents. New Glasgow, N. S.

Claremont, N. H.

Chicago, III.



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

### "REDSTONE SHEET PACKING,

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

### RUBBER BELTING

For Transmitting, Conveying and Elevating.

Unequalled for Durability and Power Transmitting Qualities.

MANUFACTURED BY-

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

Branches at Montical, Winnipeg and Vancouver

Head offices, 47 Yonge Street, Toronto

## Acadia Coal

STELLARTON, NOVA SCOTIA.

Miners and Shippers of the

CELEBRATED

Unexcelled for Steam, Domestic and General Purposes. DELIVERED BY RAIL OR WATER. SHIPPING PORT: PICTOU LANDING.

Quotations Furnished Promptly on Application.-

## MARITIME COAL, RAILWAY & POWER CO. Ltd.

Miners and Shippers of

### HIGH GRADE Steam AND Domestic

Unexcelled for General Use.

Shipments to all points reached by the Intercolonial Railway.

Offices and Colliery

Chignecto, N. S.

DAVID MITCHELL, General Manager.

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



G.C.ROBB CHIEFENGINEER

HEAD OFFICE TORONTO

WHEN WERE YOUR

.BOILERS.

...LAST INSPECTED !....

WRITE TO

G.W. JONES, Agent,

Halifax, N. S.

A. BONNYAN, INSPECTOR

Amherst N. S.

### WIRE ROPE

GREENING

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

Prices Right. Lay. Prompt Shipments.

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

## DRUMMOND COAL.

INTERCOLONIAL COAL MINING CO., Limited,

WESTVILLE. NOVA SCOTIA.

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

### GOWRIE AND BLOCKHOUSE COLLIERIES. LIMITED.

OF NEWCASTLE ON TYNE.

MINE AND LOADING PIERS, PORT MORIEN, COW BAY CAPE BRETON, N. S.

Miners and Shippers of GOWRIE COAL.

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

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

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

## The JOHN McDougall Caledonian Iron Works Co., Ltd.

Montreal Que.

**BOILERS:** All Sizes and all Pressures.



Two Worthington 3 stage Turbines and

McCormick Water Wheels, built for Port Arthur, Ontario, Water Works. Combined capacity 1440 gall per minute against 350

head.

Worthington Pumps for

Water Works and Mines.

## iter Wh

## ill Machine

Efc. Ffc.

**Head Office and Works:** 

District Offices:—MONTREAL, 82 Sovereign Bank Building. Toronto, 810 Traders Bank Building Nelson, Josephine Street,

VANCOUVER, 416 Seymour Street. New Glasgow, N. S., Telephone B'ld.

### Dominion Coal Company, Ltd.

Miners of Bituminous Coals, the celebrated "Reserve" coal for household use, "International" Gas coal, and the best Steam coal from its collieries on the Phalen seam.

### -Yearly output 3,500,000 tons.-

#### ANALYSES.

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

STEAM COAL.			GAS COAL			
CARBON HYDROGEN OXYGEN NITROGEN SULPHUR ASH WATER	.80 18 . 5 11 . 7 34 . 1 16 . 0 56 . 2 30	per, cent.	77 5 5 22 6 72 1 27 3 07 4 10 2 11	7 " "	t	
	100 00		100 00	,		

Calorific Power of Steam Coal :- Pounds of Water evaporated from 212 per cent Fah, by one pound of the coal as determined in Thompson's Calorimeter,-14.8 lbs.

Shipping facilities at Sydney, and Louisburg, G. B., of most modern type. Steamers carrying -6000 tons loaded in 24 hours.-

Special attention given to quick loading of sailing vessels. Small vessels loaded with y quickest despatch.

### BUNKER CO

The Dominion Coal Co. has provided unsurpassed facilities for Bunkering Ocean going Steamers with Dispatch Special attentiongiven to Prompt loading Steamers of any Size are bunkered without detention

By Improved screening appliances lump coal for Domestic trade is supplied of superior quality.

Prices. Terms, etc. may be obtained at the Offices or the Company.

### ALEXANDER DICK Genl. Sales Agent, Glace Bay, N. S., Can. 112 St. James St., Montreal, Que. 171 Lower Water St., Halifax, N. S.

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

Quebec, Que -and from the following agents.-Peake Bros. & Co. Charlottetown, P.E.I. R. P. and W. F. Starr, St. John, N. B. A. Johnston, and Co., Stockholm, Sweden,

Harvey & Co., St. Johns, Newfoundland. Hull Blyth & Co., 4 Fenchurch Avenue, London, E, C.

2nd. Vice President

G. H. DUGGAN,

## 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

LOCOMOTIVE USE,

Delivered By Rail or Water

The year Round

BEST COAL FOR
DOMESTIC CONSUMPTION

GENERAL STEAM PURPOSES

BEST COAL FOR

BEST GAS COAL

Mined in the Province.

Mines\_

SPRINGHILL

N. S.

Head Office

MONTREAL