hales fielou Co. boom S. 10: [n.B. Shales to be worked by Britain

APRIL 24, 1918

OUTFUT:-5,000,000 tons yearly.

Miners and Shippers of the Celebrated

"DOMINION" Steam and Gas Coal

and Coal for Household Use

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'Phalen,' 'Harbour,' 'Victoria' and Hub,.' "SPRINCHILL" Coal for Steam, Cas, and Household use.

Screened, Run of Mine, and slack.

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

IMPROVED SCREENING FACILITIES of the Collieries for the production of Lump Coal of superior quality for Domestic trade

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AND FROM THE FOLLOWING AGENTS:

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ACADIA COAL

Unexcelled for STEAM Purposes.

Popular for DOMESTIC use.

Manufacturing, Steamship, and Railway Companies give it high endorsements.

Shipments by water from Pictou Landing, N. S. Shipments by rail via. Intercolonial Railway.

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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.

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Quality.

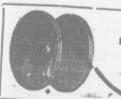
Better than Scotch seconds for

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INTERCOLONIAL COAL MINING CO. LTD.

Westville, Nova Scotia.



Get the "Safety" Habit.

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"DOMINION" WIRE ROPE.

MADE IN CANADA.

The DOMINION WIRE ROPE CO., Limited, MONTREAL.

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Inverness RAILWAY and COAL COY. Inverness, Cape Breton.

Miners and Shippers of INVERNESS (BROAD COVE)

Screened, Run-of-Mine Slack.

-First Class both for Domestic and Steam Purposes.

BUNKER COAL Shipping facilities of at Port Hastings, C. B. for prompt loading of all classes and sizes of Steemers and sailing vessels.

Apply to Inverness Railway and Coal Company Invernes, Cape Breton J. McGILLIVRAY, General Manager.

INVERNESS RY. & COAL CO'Y.

Time Table No. 35, Taking effects 12.01 June 10th., 1917.

Superior Dir.		NORTHBOUND
436.	STATIONS.	Inferior Dir
A. M.		437.
10 40	POINT TUPPER.	P. M.
10 35 10 29 10 12 10 07 9 57 9 44 9 27 9 06 8 56 8 40 7 50 7 40 7 12 6 56 A. M	INVERNESS JUCE. PORT HAWKESBURY	3 40 3 46 3 60
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MARITIME COAL. RAILWAY, & POWER CO.

Miners and shippers of

CHIGNECTO
JOGGINS.

STEAM

AND

Domestic

COAL.

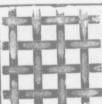
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Power Plant, CHIGNECTO, N 8

R. J. BELL, General Manager, JOGGINS, N. S.



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coal screens
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Double Crimped
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WE SPECIALIZE IN

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Jail and Prison Construction.

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

PURE WHITE FLAME.

E. WOLASTON, Datton St. MANCHESTER
Sole Representatives for Canada, AUSTEN BROS
Limited, Helifax, N. S.

CANADIAN GOVERNMENT RAILWAYS

Change of Time

Sunday, January 6th., 1918.

OCEAN LIMITED

DAILY EXCEPT SUNDAY.

Dep. Halifax Arr. Montreal Dep. Montreal Arr. Halifax 7,45 a. m. 10,15 a. m. following day.

6,40 p. m, 11,40 p. m. following day.

Maritime Express.

DAILY

Dep. Halifax Arr. Montreal

Dep. Montreal Arr. Halifax 3,00 p. m. 7,40 p. m. following day.

9,25 a. m. 4.00 p. m. following day

J. W. CUMMING, 2 SON, Limited.

We manufacture a complete line of Tools for the Coal Mine, the Plaster Mine and the Lumberman.

Wood or Steel let CUMMING'S make it.
OUR PRODUCTS:

Coal Boring Machines.
Scome Boring Machines.
Heatchet Boring Machines.
Heatchet Boring Machines.
Breast Augers.
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Steel Pit Hames, Screens, Lightand Heavy Forgings, CASTINGS, Track Tools, Bark Peelers, Road Makers Axes and Chisels, Steel Rails,

Frogs.
Spikes.
Bolts.
Mine Cars.
Surface Cars.
Dump Cars.
Car Irons.
Draw Bars.
"Hitchings.

Stemmers. Steel Rails. "Hitchings. "Hitchings.

All Our Tools are built on practicable lines, and guaranteed to give settefaction.

Home Office: NEW GLASGOW, N. S. Branch Office and Warehouse, Leithbridge, Alta.

Concerning the 'Record'

The first Number of the 'Trades Journal' was issued the first Wednesday of 1880. The 'Journal' while taking a deep interest in the Coal Trade, was more particularly interested in matters affecting the working conditions, and to give them the standing in the community to which, it thought, they were to make comparison between conditions as they existed in 1880 and as they exist now.

In 1898 the name was changed to the Maritime Mining Record, in order to express more distinctly the place it was intended to occupy. Since then, till now, its pages have been devoted chiefly to coal mining, which is the staple industry in Nova Scotia. With the growth of the trade it has grown in influence, and is now considered the one reliable authority on all matters connected with the coal trade.

MARITIME MINING RECORD

Vol. 20

Stellarton, N. S., April 24th., 1918

No. 20

THE BERLIN OF TODAY.

(Christian World).

Never at any time has Berlin been so noisy as London or Paris, but such noise as there was has been greatly modified. Added to the disappearance of horse, 'bus, and motor traffic there is a marked diminution of human life on the streets. There are points where at certain hours of the day there is much brisk going and coming, with loud clanging of tramcar bells, but these points are few, and have no influence on the staid and rather sad-looking streams of people, mostly women and children, in You are early struck all other parts of the city. with the prevailing shabbiness of the people's clothes. For nearly a year past clothes can only have been had by card, and for new articles of clothing old articles, in a number of cases, must be given up. This does not encourage extravagance in wearing-apparel. Men's shirts and collars and other lingerie, so far as it is visible, seem grey, ill-washed, and starchless. There is little soap that is reliable. and long ago starch was voted as an unnecessary luxury. Boots and shoes have greatly suffered in appearance. The clatter of wooden soles may be heard everywhere, and boot uppers, especially in boots worn by the poorer classes, are now invariably made of paper compositions. One sees in the shop windows a large variety of articles of clothing made of paper and nettle fibre. German newspapers are proud of the perfection which has been reached in the use of paper as a textile, but the views of users of this material seem to point to its unsatisfactoriness, both as regards appearance and as regards durability. An amusing account recently appeared in Vorwaerts, where a working man describes his efforts to divest himself of his paper shirt after it had been soaked with rain. It finally came off in patches, and the fragments were sent to the enterprising draper who had praised the garment as proof against every stress of wear and weather. An interesting institution founded in recent weeks has been the municipal cobbling shops, paper manufacturing plant for the utilization of timwhere the Berlin citizen may have his shoes patched with substitute leather, and the soles riveted with patent pieces of hard stuff warranted not to wear with decent usage. The prices are high, but what can one expect in face of that inexorable British blockade?

Travellers, Berliners themselves, and their newspapers are all agreed that the courtesies and amenities of life have greatly fallen into desuetude. Majorities of 1,614 and 1,795 votes respectively, Never at any time remarkable for their breeding, the against the "combing out" proposal of the Government. Lancashire and Chesshire miners gave a Berliners, men and women, are reported to have be-Derimers, men and women, are reported to have become irritable and cantankerous, perverse and unmajority of 15,519 against the scheme, and Cumbercurian in temper, rude and brutal in their bearing land 730 against. Durham miners, on the other one towards the other. Press writers describe the hand, have shown, by a majority of 6,398 votes, that one towards the other. Tress writers describe the main, have shown, by a majority or 0,000 votes, that reluctance displayed by men in rising to give their they are in favour of the scheme, and Northumberseats to women, even to old women and women with land miners also support it.

babies. It makes the picture no better to learn that they show an alacrity to give their seats to a young girl, especially if she be pretty. Another writer declares that he never makes a trip in the electric railway or in a tramcar without an accompaniment of strife between the conductors and passengers. It is not an uncommon thing to see the lady passenger assault the lady conductor for violence of word or demeanour. It is the same in the shops. The shopkeeper and his assistants know that the consumer is now at his mercy, and, as a writer in the Berliner Tageblatt points out, these people are determined to revenge themselves for former years of enforced subserviency. This is a perfectly true touch, and fits in with all we have recently learnt of the German character, both in peace and war. Baroness von Bunsen, a well known lady of Berlin society pointed out in a popular weekly that she found the manners of the upper classes affected in the same evil way. Men speak of their wives without any of the deference once practised. Women treat their children with a callousness and lack of understanding which she describes as deplorable. Another writer draws attention to the increasing viciousness o fchildren, attributing it in large measure to the example set them by their parents. In the first half of 1914 over 12,000 children were punished by the juvenile courts; in the first half of 1917 no less than

SOME TREES.

The number of trees annually cut down for the manufacture of wood pulp to supply the world's demand for paper could not be fewer than from 50 to 60 millions, it was stated in a lecture at the School of Economics. In order to supply the material to produce an issue of a daily paper from 150 to 300 trees might be required. Ontario, in providing setlementt for discharged soldiers, is setting up a ber as the ground is cleared.

MINERS CON AND YET PRO.

Miners in South and North Wales decided, by

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.

April 24, 1918

THE FOUR EPOCHS IN THE INDUSTRIAL EXPANSION OF THE PROVINCE.

be forced to say of the chief mining industry that THE AIMS OF THE BRITISH LABOR PARTY

1st. The acquirement by London Capitalistseral Mining Association-of the royalty bearing, or in other words, of all the then known more important minerals of the province:

2nd. The breaking up of the monopoly, some thirty years afterwards, and the securing to the Labour Party has taken the first step towards the province of all the minerals not reserved; and

3rd. The advent of the Whitney Syndicate, or

A short reference will be made to first of these of people who own allegiance to no party. events. The second and third will be included in Chapters under the heading, "The Four Outstand-

1st. The breaking up of the G. M. A. mono-

The advent of the Dominion Coal; Nova Scotia Steel and Coal Co., Ltd.;

4th. The establishment of Steel Works at Sydney and Sydney Mines

life. The duke's tastes were of the expensive order, and in comparison, his purse was siender. consequence was that he plunged into debt to—ground. They do not understand one another, and among many others—his jewelers. Though he was are somewhat prone to criticise one another's ideals. the King's brother, the jewelers did not consider his Many middle-class people have in the past stood patronage as fully sufficient to offset the value of aloof from the Labour movement—partly, indeed, the jewels, so they—as plebians at times will—kept because they have no direct relationship with it, but

This was given readily, the more ungrudgingly because the donation had cost him nothing in the first place. The gift took the shape of a grant of all the minerals in Nova Scotia to the Duke. He, after consideration, came to the conclusion that he was not eligible for commercial pursuits, and so transferred his grant to his jewellers. The bill he had run up with his jewellers must have been of formidable proportions, or else small value was at that time attached to the minerals, which are now considered of immense value to Nova Scotia. The smiths, for his unwrought copper mines in Nova ellers looked upon as the principal asset in the

time, though mayhap not in the order of import, Henderson, M. P., we cull the following. Accord-

Dominion Coal Coy., Limited, in 1893 by which, organization of a single political party. But the without important exception, all the coal mines in chief significance of these changes lies in the effect the Southern portion of Cape Breton County, came they are calculated to have upon both the organized working-class movement and upon the great body

Political issues are largely decided by the mass ing Epochs in the Industrial Expansion of the Pro- They cause the pendulum to swing. They adjudicate upon the programmes of the rival parties. They constitute a body of essentially conservative opinion which is not adverse to change if change can 3rd. The securing of the Wabana ores of the merely because they are new. In close association be justified, but which does not accept innovations, with these non-party voters there is another classsmaller, but almost equally important in view of It turned out a rather fortunate affair for Nova icy—the class which in erits the traditions of Radithe influence they bring to bear upon national pol-Scotia, that the Duke of York, brother of George cal Nonconformity, whose sturdy commonsense IV, had a weakness for jewelry and a fondness for and practical idealism are near akin to the best qualluxurious living. While a lad his tutors evidently ities of the working-class movement as we know it

Between these classes and the organized wagedunning his Highness for the debt. Getting tired also because they lacked sympathy with what they of their importunity, he applied to his brother for believed to be the excessive class-consciousness of

was one of the most potent influences which helped aid. It believes that the trading classes, the profesto shape the modern industrial movement is a fact sional clases-in short, all those who live on smill that cannot be denied, but it has undoubtedly caus- incomes of their own earning-like the mass of ed many middle-class people-the shopkeeping working people, require the protection of a strongly classes, the professional classes, ministers, doctors, organized political party which will not direct nateachers, clerks, and the like-to feel that the organ-tional policy according to the wishes of the possessized workers pursued a policy in opposition to what ing classes, but will seek to promote the general these classes believed to be the true interests of the welfare. that working-class policy, both industrial and poli- have an opportunity to deal more fully in a later tical, has been strictly of a defensive character. The article. Here I am anxious to emphasize the fact

however, it must also be acknowledged that the re-service rather than upon competition and ruthless forms it has endeavoured to promote have been of individualism. In our view, the system of capitalist a general social character. From the very begin- production which obtained in pre-war days, in which ning of its history the Labour Party has claimed to were bred the monstrous antagonisms that tore be something more than the party of a class- It has asunder the society of nations, has been finally disnot concerned itself merely with the political aspects credited and destroyed by the war itself. The sysof industrial questions, with hours of labour, rates tem cannot be restored. In its place we have to set of wages, and conditions of employment. By com- up a political and economic system based upon a mon consent it has infused into contemporary poli- deliberately planned co-operation in production and in national and in international affairs it has always lines, what are called the middle classes are as much taken a large view, and has consistently refused to concerned as the manual wage-earners. treat any problem from the point of view of class interest alone. It's criticism of existing institutions springs out of a conception of society which is fund orthodox parties. But that conception does, at any the idea of class privilege. It puts the rights of the

ception of social reconstruction, the Labour Party liberately designed to unite all classes in a genuinnational party. The new scheme, which was adopt ed with practical unanimity at a representative na tional conference held in London recently, makes it possible for every man and woman dependent upon their own exertions, either of hand or brain, for their means of livelihood to join the party. It seeks to unite them on the basis of a common interest in good government and a common desire to promote the welfare of all the people. The party invite tin men and women who have hitherto stood aloo fro mthe Labour movement to realize that their interests as citizens and as workers are identical with those of the manual wage-earning class. It opens its doors to those who do not belong to the latter class, because the new order of society which it de-

the working-man. That this class-consciousness sires to see established cannot be built without their

With the details of the party programme I may workers have organized themselves in trade unions, that neither the constitution nor the policy of the have created their own political party, and have set party is inspired by class feeling. What is aimed at the great co-operative movement on foot primarily is the establishment of a real national party pledged for their own protection against the rapacity of to promote the political, social, and economic emancipation of the whole people, and to create a new In fairness to the working-class movement, social order passed upon co-operation and mutual ties a quality of idealism and generous feeling for distribution from which the profiteering element the oppressed and overburdened masses. It has, of will be progressively eliminated, and under which course, sought to protect the workers from exploit- every worker will be the servant of the community,

In the effort to reconstruct society on these

- Rubs by Rambler. -

It looks, at the present time, as a Pictou ounty Oil Shales were again coming into their own. For land containing shales there is at present an unusually active quest. A Halifax business man of high standing is inquiring into the possibilities of Pictou County Shales, and has brought an Oil-Shale expert from the United States to look over the ground. He, in company with Deputy Inspector Gray last week visited the districts said to be underlaid with Shales. Whether further action will be taken, will depend on two things; first the quality, and second the possibility of securing ground not already covered, or ground covered at a reasonable Mr. Walter McNeil, of New Glasgow, has secured right of search for Shale, immediately west of the Acadia Coal Co's property at Stellarton. From this it would appear that there is a possibility of there being a boom in Shale. Besides these two, other parties have secured rights on twenty square miles on the east side of the East River. I trust that holders of Shale lands, will not put too high a value on their properties, and thereby discourage those who desire to do a legitimate business.

Attorney General Daniels is showing style these days. For a while he was tried in the furnace

and with the beneficial results said to attend that be completed by January next. The maximum torsort of treatment. He had the courage the other nage mined by the company to date was 224,000 day to tell a delegation, who came, I was going to tons in 1916, say interceding, but C. B. delegates, as a rule, do not beg, they demand. So I will say who came demand- utilized and the ore treated by the company, the ing the "closed shop," and more. This delecation result would be 500,000 tons of finished product, wanted the government to command Mine and other Hayden, Stone & Company, heading the American officials to be at the beck and bow of labor unions, group which is now dominant in Scotia's affairs, The Atty-General looked grave, grave—and who points out in this connection that the U. S. Steel other than an official of a trade union would nor,— Corporation's operating profit per ton of finished but I would not say he, at the same time looked product has averaged \$14.40 over the last six years. sorrowful, indeed after he had consulted Bourinot, Continuing, they say: Kent and Lord Halesbury and some other authorities, he briskly told the delegation that to grant make a profit of \$10 per ton on its finished product pronouncement came to the ears of the Department the company mig't look forward. To be sure, it has of whether they are constitutional or not. The finished product, but a plant somewhat more com-Herald representative who endorses every request mensurate with the ore deposit is under considera-

The principal reason for the coming of the committee was in an endeavor to secure an act which would mak ethe recognition of labor unions compulsory upon employers. In this desire they are to be disappointed, for the attorney-general, after an examination of the proposed act, has declared it to be unconstitutional.

After a quite lengthy preamble the proposed bill provides: "Whenever any dispute shall arise to any matter of wages, hours of toil, working conditions, discrimination against workmen, or any matter or thing affecting the relations between employer and employees, and a committee is regularly

ployer, advise the said employer of the appointment which the said committee is authorized to adjust with the said employer, and in the same notice shall demand a hearing of the said employer within

"If, after twenty-four hours' notice duly given as above set forth, the said employer neglects or refuses, without reasonable excuse, to so meet the said committee and hear the said matter or thing relating to the said difference or dispute, the said employer so neglecting or refusing shall be liable to a penalty of not less than one hundred dollars or more than one thousand dollars for every day that he, the said employer, so neglects or refuses to meet the said committee as aforesaid."

SCOTIA

driving into its iron ore holdings at Wabana will he the said Employer so neglects or refuses to meet have a capacity of 1,000,000 tons a year and should the said Committee as aforesaid.

"If we assume that Nova Scotia Steel could

THE EMPLOYEES COMMITTEES ACT.

The following is the substance of the Act in-

This Act shall apply and be binding upon all employers operating quarries, mills, ractories, docks

When any Employer operates more than one mine, quarry, mill, factory, dock or ship, the employees employed at or on each separate mine, quarry, mill, factory, dock or ship, may appoint a

Whenever any dispute or difference shall arise between any Employer and his en-proyees in respect to any matter of wages, hours of toil, discrimination against workmen or any matter or thing affecting the relations between Employer and Employees and a committee is regularly appointed by the said employees to adjust the matter of difference or dispute with the said Employer it shall be the duty of the said Employer to meet the said Committee and to hear the matter of difference or dis-

Any Committee regularly appointed as above set out shall by notice in writing delivered to the Employer advise the said Employer of the appointment of the said Committee and of the matter or thing which the said Committee is authorized to adjust with the said Employer and in the same notice shall demand a hearing of the said Employer within twenty-four hours.

If after twenty-four hours notice duly given as above set forth the said Employer neglects or refuses without reasonable excuse to so meet the said Committee and hear the said matter or thing relating to the said difference or dispute the said Em-A Montreal despatch says:-The new slope penalty of not less than One Hundred Dollars or which Nova Scotia Steel and Coal Company is more than One Thousand Dollars for every day that

AROUND THE COLLIERIES

A deputation from Glace Bay, consisting at owners, and that capital merely passes them by and struck out. It seems to the Record that this is velopment of the oil shale lands in the same way. eight or nine years to the time when deductions should receive. were made without orders. Of course the request

sible the mode of conducting examinations in the for their reading. Give capital a chance!" matter of Certificates for Colliery officials, will un-

any employees of any mine shall not be paid other- with by advanturers. wise than in money current in the Dominion of

"Any such employee may, by order in writing, auth- way. The P. W. A. was born at a time when there orise his employer to apply the whole, or any part, were no Unions, and when neither the public, the of the wages or salary due to such employee to the press nor the politicians were solicitous for their payment of any debt due by such employee, but any favor, for the simple reason that the P. W. A. was such order shall be effective only for the weekly not considered a force to be reckoned with, and yet period specified therein, and for an amount speci- the P. W. A. secured recognition-with but little, fied therein."

take heed to the following from the Salt Lake Min- men of the Company. The directors did not ask ing Review. A correspondent writing the Record who sent them, or if they were union men, and the on this subject, replies in answer to a request as to Committee did n otproclaim loudly that they were what a certain party was doing in exploiting a union men. The directors told the Manager to Shale property, said: "Evidently he is making pro- meet at all times, committees of workmen. The gress-but he expects big money from any one who P. W. A. bided their time, and full recognition came desires nothing more than a look at the property." in due course without any request for it. It came as

by speculators in oil shale lands of proved or on he agers any excuse for saying "We will meet with lematical value, the following is opportunely inter- Committees of Workmen only." Never did the esting and important to Canadians who await the Grand Secretary accompany a committee to interactual results from the New Brunswick shales, view the Manager of a Mine on the mainland till

shale lands is not amiss just at this time. Word by quiet persistent endeavor the P. W. A. got stophas been circulated that leases on this ground are page of dues, a thing unheard of at that time among being held at from fifteen to eighteen dollars an the Collieries of the continent. If any Company the golden egg, for capital will not listen to any their workmen, Union officials need not worry such price, but will pass on to the man who is more about the coming in due time of recognition, full

"We all know that many mining prospects with come sooner or later. the high prices and exorbitant demands of their officials along with a Committee. As a rule this

least in part of Storekeepers, waited on the govern- develops claims elsewhere. Every mining camp in ment a few days ago and asked that sub-section 2 be the west has such properties. Do not retard the desomewhat of a peculiar request It puts matters back an exaggerated and mistaken idea of the price you

"The reports of high prices paid for various may not be complied with; if it is, the Record will holdings are injuring a new industry of vast possipoint out where the end sought for is not attained. bilities, for they have given a false and widespread idea of inflated values. Many are already holding It is likely there will be some fierce amend- out for high prices, through ignorance of the real ments to the Coal Mines Regulation Act. It is pos- facts, and these few remarks are intended primarily

The exploitation of real oil shales, the determdergo a radical change. The amendments to the ining of their oil and sulphate of ammonia contents, Consolidated Act will likely be so numerous that the proof that there is large tonnage, call for capithose responsible for its production, will not know tal amounting to millions and strictly business their own bairn.

More than \$100,000 was spent in the pre-Section 46, sub-section one of the Coal Mines liminary investigation of the New Brauswick shales. Regulation Act, reads:-"The wages or salary of Canadian oil shales are too important to be trifled

There are two ways of obtaining recognition, a Subsection (2) in the Act reads as follows:- quiet and simple way, and a laud and more warlike indeed it may be said without trouble. The directors of the Intercolonial Coal Company settled the Pictou Speculators in Oil Shale lands, should matter, when told that the committee were worka natural sequence so to speak. The executive of In view of the extravagant notions entertained the P. W. A. took good care not to give the Manabout to be worked under Imperial Government after Leckie's time, and never on the Island until the coming of the Dominion Coal Coy., When the A friendly word of warning to owners of oil Genl-Manager was the one important official. And acre. This is a case of killing the goose which lays will receive at any and all times a committee of recognition to all intents and purposes which will Union officials should not the earmarks of possible producers are held back by wish to have the privilege of interviewing works

in

should be avoided, so as not to give cause for of- for dear ones far away, and a lump comes into at fence, and as showing further that the Committee least one throat there, and while inwardly echoing of workmen are able to present their views without the prayer he cannot sing it.

THE PADRE'S TURN.

A Sunday Evening in France.

come because they have been before, and found the conduct appears to him now.

For others, it is their first Sunday on French service done for Christ. soil, and they have come because it has been their custom to attend their chapel at home twice a day "O rest in the Lord," and "Please not to appland home and loved ones, and the prospect of a quiet with a calmer trust for having heard it

but half a dozen, shout their favourite number. One loved ones. No wonder all sing it from the heart is chosen, the unlucky ones vow to be in front the and for once forget themselves. Follows the padre's next time, and as soon as the padre has said, "One benediction. But one thing remains—a chord here time, and as soon as the paure has said. One benemenon. But one thing remains a chord of you — "comes the reply, "447, Sir!" It hap-brings every man to his feet with a smart click of pens to be "Jesus, lover of my soul." "Shall we the heels, and rigid attention is preserved while the have the English or the Welsh tune?" asks the National Anthem is sung. padre. Nearly all ask for the Welsh one, and so "Aberstwyth" it is to be,

of men singing a majestic hymn tune, but Tommy vast camp. is not a very sensitive soul, and if he feels any emotion he does not show it as a rule. After two or three hymns are chosen and sung, a 'cello solo by Gunner G., is announced. This is loudly applauded, as also are other solos that follow, and we think how shocked the congregation at home would be!

Holy Father, in Thy mercy, Hear our anxious prayer; Keep our loved ones, now far absent, Neath Thy care

The Jesson is the Good Samaritan story, and the sermon is the same tale retold and adapted to the modern needs of the congregation. The padre The Camp Cinema, provided and run by the -ue to Joiplos popunom e se uem poqqoi oqi uodn puts it in a new light to some; they had not looked Y. M. C. A., is no longer darkened; its half-dozen cerning the percentage of magnesium chloride and exit doors are flung wide open, the curtains are other regiment, but when he asks, "What would you drawn across the screen, and yet there is a show chaps think of a man coming down a communicaon. It is Sunday evening, and the hut is full of tion trench and seeing a Tommy badly wounded troops, presumably Free Churchmen, because those saying to himself, 'By Jove, that chap's got it badly who attend a Nonconformist service in the Army in the neck, but it's no business of mine, he's not in are avowedly Free Churchmen. Church parade my regiment,' and so passed him by?" They see means C. of E. unless a soldier voluntarily states his point, that every ill is somebody's business. The that his profession is otherwise. But this is not British soldier hates a dirty trick and an unsportseven a parade service; it is voluntary. Some have manlike action, that is how the Levice's and priest's padre a man after their own heart, a sportsman, and, straight talk, call it what you will, ends on a high note, an appeal to service to one's fellow-men as

on Sundays. They would not admit that they were this item." It is beautifully and reverently sung and feeling homesick, but somehow a spring Sunday listened to, and the men who on the morrow are to evening takes one's thoughts across the water to go up the line to the front will surely go into action

The padre is a cheerful soul. There is an hon- wonders whether one more suitable both as regards est light in his blue eyes and a frank, open expres- words and music has ever been written with which sion which at once appeals to the men, and seems to to close a service. "The day Thou gavest, Lord, is tell them he is their friend before he is their officer. Ended." Recollections of home circles on Sunday All eyes are upon him as he takes his seat on the evenings, May meetings at the City Cemple, and All eyes are upon that as he takes his seat on the evenings, analy incertage at the City temperature stage behind the Union Jack covered table. Not other occasions of the past all intimately connected 24 hours ago the same stage was occupied by a with home and all that it means are roused by that Tommies, but the padre now holds the boards, and uncultivated voices! There is genuine feeling, and it is his star turn. To be sure, he will have an ap- though the lump will come, it is swallowed quickly preciative audience; Tommy recognizes a good man in case one line may be lost, every note must be when he sees him and hears him, be he comedian or sung and enjoyed. Not every eye is dry at the last "One of you chaps give us a hymn!" Not one, means no more war; it means Blighty, home and

The day Thou gavest, Lord, is ended-in a few There is something very moving about a body by "Lights out" and silence will reign over this

W. A. CHAPLIN

ASBESTOS.

The padre strikes the right note in his prayer, bestos, has at intervals been reported as having been He appeals for Divine help for the great adventure found at certain points in the province, but as to the in front of the men; he touchingly pleads for loved quality, exact information is unavailable, as the ones at home. The hymn following is also a prayer work done on any find was more experimental than tions of being in quantity to warrant operations; very crudest kind of apparatus for giving light were and besides, as the demand was not urgent there in use in Britain years ago. The ancients had what was no incentive to continue prospecting or exploit- were called "perpetual" lamps the wick employed ation. The Asbestos field, it may be said, is still being asbestos. It is principally used in this provirgin. As no doubt after the war there may be vince for covering steam pipes and in some cases for more prospecting for mines in the province than at backs of stoves. The Asbestos so far found in Vicany previous time, the following description from toria and Cape Breton counties has not proven of the Geological Survey Department may be of ser- value sufficient to warrant development, but as in vice. The description refers to the Asbestos pre- the case of some other of the minerals no systematic sently being extensively worked in Quebec :-

It occurs in reticulating veins up to 4 or 5 inches in width, in serpentine rock, the fibres, which are easily separable, are very fine, of a silky appearance, and flexible to a high degree. Asbestos is unaffected by heat, except on continued exposure to Gore, Hants County. It is mined in a shaft 700 feet high temperatures, and is noncombustible. It is a deep. It was discovered in 1880, and the size and

not attacked by the common acids.

The above characteristics make this mineral an important raw material in a number of manufactur-

ing industries.

Asbestos fibre may be spun into garn and rope, and woven into fabric, in which forms it finds many uses where a fire resisting fabric is required. For these purposes a long fibre, both strong and very flexible, is desired. At present there are no factories in Canada weaving asbestos.

which purpose a short fibre is used.

as a binder.

On account of its low electrical conductivity, it is used as an insulator in electric instruments. While asbestos paper and mill board are principally ore carried gold. used for this purpose, considerable long and short fibre are also employed. Short fibre is mixed with 1911, this being the first production since 1907. used in making stove cement, pipe covering, etc.

is used in making gaskets for packing glands and the fiscal year ended September 30th. The producpipe joints where high temperature or acid solutions tion for 1916 was 14,149 tons of ore. are encountered, making of chemical water and fil-

ters, and as a surfacing of gas grates."

are becoming better known, as time passes. Asbes- 1,232 oz., 16 dwt. 23 gr., valued at \$24,657. In 1906 tos in England, for roofing purposes, har not been there were shipped 782 tons 1,186 lbs, or ore, which very extensively used in the past, but there are yielded 1,031 oz 11 gr. of gold. In 1907 the producmany indications that its remarkable wearing qual- tion was 3,042 tons of ore, and 1,403 tons were shipities are becoming more and more widely recogniz-ed, and that there will be a rapidly increasing de-The average amount paid for this ore was \$48.39 per mand for it as time goes on. especially adaptible for use in the large industrial of gold, only part of which the smelting companies districts, such as Lancashire, where, owing to the made payment for. Shipment were made to the fol-corrosive atmosphere fumes the life or galvanized lowing companies:—Hoyt Metal Co., Meallgeselliron sheeting is not more than from three to five Schaft, Merton & Co., and the American Metal Co. years, whereas asbestos is not at all adversely affect. By assay the ore gave from .77 to 2.06 oz. gold to ed by such conditions. It is becoming a common the ton. practice now, when galvanized iron sheeting need repairing or replacing, to substitute asbestos-cement into difficulties and work ceased early in the Spring sheets. This piece-meal substitution is facilitated of that year. The mine is now operated by the by the use of sheets made to the same dimensions West Gore Animony Co. The demand is good. as the standard corrugated iron sheeting.

ancients than it is today and of course it was more mine was opened here, and about 3,000 tons were highly appreciated. Linen in old times was made shipped. Other deposits are known in this locality

practical. The "finds" so far have not given indica- from it. It is within the memory of man that the or persistent exploitation has been done.

ANTIMONY.

Stibnite or sulphide of antimony occurs at West poor conductor of both heat and electricity, and is value of the ore bodies are well maintained. deposit carries gold and silver. The ore occurs in two fissure-veins, and has been traced 1200 feet. The veins vary from two inches to seven feet in thickness. The ore-shoots dip 4 degrees southeast, and gold is most plentiful where the percentage of stibnite is high.

Except where a cross-vein of quartz comes into the vein at No. 1 shaft, none of the gold is free, even in ore assaying as high as 10 ounces of gold to the ton. Assays of second-class ore have shown as In this country the principal manufactures of high as 186 dollars a ton of 2,000 pounds. A very aspestos are mill board, paper and shingles, for conservative estimate of second-class ore left in the vein, gives it an average thickness of 6 inches, coa-In the making of certain mineral flooring short taining twelve per cent, antimony and twenty three fibre asbestos enters into the mixture, where it acts dollars gold to the ton of 2240 pounds. There are four shafts on the north vein.

Previously to 1910, there were 3357 tons ship-For a long time it was not known that the ped.

This mine produced 191 tons of concentrate in paints to produce a fire resisting paint. It is also There was no output from 1911 to 1915. The mine was unwatered in the autumn of 1914 and was pro-Long fibre, besides the uses referred to above, ducing in 1915; 10.872 tons being produced during

In 1905, 4,000 tons of ore were produced: 427 1-4 tons of mixed ore were shipped to English The many uses to which Asbestos can be put smelting companies, and contained by assay, gold It has been found ton. In addition to this the ore contained 1319 oz.

In 1908 the company operating the mine got

B

sl

pi Sc

ad

A sulphide of Antimony occurs near Rawdon This mineral was possibly better known to the Hants County, which carries gold and silver.

which carry high gold values-

Stibnite is an ore of a light colour; has a brilliant lustre. It belongs to the non-metallic class, Its specific gravity 5.524.62, symbol S 52 S 3. It is the chief ore of antimony. It is used in safety shales appears to vary considerably in different matches and fireworks, in the manufacture of rub-

Pay Streak Antimony45.75 per cent. 18.21 per cent. Gold 2.48 oz. per ton Silver 10 oz. per ton .13 oz. per ton GRAPHITE.

It is probable that the occurences of Graphite in different localities was discovered more by accident than by search. Prospectors in going round the country in search for some other mineral have run against a deposit here and there, but beyond hornblends schists and dark slates of pre-Cambrian ation, in the majority of cases followed, chiefly for the reason that there was no market near at hand. The time may come when there may be a demand and then, no doubt, the mineral will attract attention. The following in reference to the mineral is from a report of the Geological Survey, and gives all information procurable up till the present:

"While the occurence of graphite in certain rock-formations in Nova Scotia has been known for many years, up to the present time but little has been done in the way of economic production. Several attempts have, however, been made, more exploit deposits of this material, but so far these do

provinces are described as belonging to the island of Cape Breton. Here the mineral is found chiefly in rocks which have been assigned to the pre-Cambrian age, consisting of crystalline limestones with apparently never been ascertained. The above menslates and shales which are associated with granite tioned localities appear to include the principal detants, Inverness county, it is found in a coarse red syenite full of graphite specks. At Dallas Brook the rocks are felsites, limestones and slates with which the syenites are associated, and the limewhich the systemes are associated, and the limestones are graphitic, while beds of graphitic shale place in any publication descriptive of the economic minerals of Nova Scotia. Some attention was given to it in 1917, for the first time in Nova Scotia in all

purified graphite from this place, when completely other hiding places. Indeed its discovery has led separated is of fair quality, and appears to be well old prospectors to imagine, if not really believe, that

pear therefore, to depend largely upon the cost of its extraction and preparation for the market, necessary to ensure the requisite amount of purity.

ber goods and in refining gold. Since ancient times Hugh Fletcher and assayed in the Geological Surit has been used in Eastern countries as a cosmetic. vey laboratory, gave of graphite only 13,965 per cent, but a more recent assay by Dr. Hoffmann, of material from the same deposit, made for Mr. Jan low grade ore McIntosh, yielded graphite 31.8 per cent. A later assay is given in the report of the Mines Depart-.23 oz. per ton ment for Nova Scotia, of the shales from Christmas Island which is practically the same deposit, in which the percentage of graphite is given as 50.23, with rock matter 43.37 and water 6.50. These shales apparently belong to the Cambrian rocks of Cape Breton.

age are blackened with the contained graphite, but no definite information as to the actual graphite

In the county of Guysborough, near the Tor Bay road, several pits have been opened along the Salmon River in a black slate which is probably of Devonian age, and near the contact of the gold-bearing slates. These slates apparently contain a fair percentage of graphite.

The occurrence of graphite has also been report from West Bay, Grand Narrows, East Bay and Hunters Island, and in addition, Mr. Gilpin, in his Report of the Mines of Nova Scotia 1880, mentions especially in the eastern portion of the province, to its presence, mostly in the form of prumbaginous not appear to have been attended with much suc-boit, Hammonds Plains, Fifteen-nile Stream, Boul-The principal occurrences of graphite in the last three being in Cape Breton. Concerning the exarderie Island, Gregwa Brook and Gillis Brook, the tent of these deposits, no particulars are available, and but little attempt at mining has been done for posits as yet known to exist in this province.

MAGNESITE.

stone is sometimes burned for lime; the horizon of probability, due to its discovery, and production to these rocks is that known as the George River lime- a limited extent by the Nova Scotia Steel and Coal One of the graphitic shale localities is found poses of the company. The discovery was made at Co., who found the mineral suitable for certain purhalf a mile south of Guthro Lake near the French River Denys, Cape Breton. The deposit was not Vale road. The band at this place is said to have a an extensive one and soon became exhausted. Its breadth of two to three feet and ca nbe traced for discovery and usefulness has inspired the hope that some distance on the strike. An Analysis of this the mineral may be met with in other districts, and Survey and gave graphite 38,387 per cent. Report mineral not sought after has been encountered, a of Progress Geol. Surv. Can. 1879-80 p. 1-2. The systematic search may result in revealing many separated is or an quanty, and appears to be determined in the course of prospections to imagine, it not reany beneve, that adapted for lead pencils, electrotyping, and for most just such a mineral, or one closely resembling, had of the numerous uses for which graphite is availbeen met with in the course of prospecting in sevable. Its value as an economic product would aperal localities but that no attention had been paid

semble magnesite, was uncovered in a search for of wood flour, cork, asbestos, or other filler, thereby iron ore, but as, at that time, the name was unfam- adding to the elastic properties of the finished proiliar and its uses and properties not known to the duct. Its surface is described as "warm" and quiet, prospectors, it attracted no more than a passing as a result of the elastic and non-conducting charnotice. The question may have been asked, "What is it and as there was none to answer, nothing more usually coloured by the addition of some mineral was said or done in reference to it. Its value now being known the probability is that the numerous by times prospectors will include magnesite as a mineral worth looking for. Or it may be that the Steel companies may employ skilled prospectors to search for the mineral.

of the rarer and less known minerals :-

'Magnesite is a natural carbonate of Magne-44 per cent.

grained rock with a conchoidal fracture resembling halls in public or other buildings, including hospia break in porcelain. The Grecian Magnesite is tals, factories, shops and restaurants. largely of this character, while the Austrian varieties usually contain iron so that they become brown coming into more general recognition and favor for after calcining. The Washington Magnesite, one these uses. For a few special uses it is more or less of the most recent developments, resembles dolo- disqualified; as an instance, it is not suited for conmite and some crystalline limestones in physical struction of swimming tanks or for conditions of appearance. Its color varies through light to dark permanent wetness, since under constant immersion gray and pink.

Kern County) are associated with Serpentine areas. The Washington deposits are stated to be associat- vantage in its use for laboratory floors and tables; ed with extensive strata of dolomite limestones."

include the following:

steel arnaces, copper reverberatories and convert- terrazzo, although more expensive than wood ers, bullion and other metallurgical furnaces; in the asphalt, linoleum, or Portland Cement. manufacture of paper from wood pulp; and in making flooring, wainscoting, tiling, sanitary kitchen ure are ascribable to uncertain climatic changes, and hospital finishing, etc. In connection with lack of uniformity in mixtures used, lack of care on building work it has proved particularly efficient as the part of those handling the materials, possible dea flooring for steel railroad coaches, on account of terioration of materials used through exposure having greater elasticity and resilience than Port- (either before or after mixing) lack of proper preland cement. For refractory purposes the magne- paration of foundations on which the material is to site is "dead-burned"—i.e.—all or practically all of be laid, and, as a very important factor, experience the C. O. 2 is expelled from it. For cement purposes or non-experience in the manipulation, or actual it is left "caustic" i.e. from 5 per cent. to 10 per cent. laying and troweling of the material. of C. O. 2 is retained. When dry caustic magnesite of ground calcined magnesia, and data concerning is mixed with a solution of magnesium chloride the character and quality of filler and colour added (Mg. Cl 2) in proper proportions, a very strong to the commercial preparations, are naturally cement is produced, known as oxychloride or sorel guarded as trade secrets by the firms arready in the cement. It is applied in a plastic form, which sets business. The examination and standardization of in a few hours as a tough, seamless surface. It has the raw materials used, and of acceptable filler materials also a very strong bonding power, and will hold erials, and the establishment of standard propos firmly to wood, metal or concrete as a base-

It may be finished in a very smooth, even surof soft native cement. Near Whycocomagh, several face, which will take a good wax or oil polish. As years ago, a mineral, now admitted to closely re-ordinarily mixed there is added a certain proportion

The desirable qualities of flooring material (cost not considered) are listed for purposes of analysis or comparison under eighteen heads as follows:-Cleanliness (sanitary qualities), quietness, immunity from slipperiness, appearance, waterproof The following description of Magnesite, its nat-character, plasticity, warmth (thermal insulation) ure and uses, is by Fletcher Hamilton, and was con- life (immunity from deterioration by age) acidtributed by him to a publication named "Foot proof character, alkali-proof character, fire resist-Notes" whose main purpose is to give description ance, elasticity, crushing strength, structural contraction and lightness. The importance of these sium, and when pure contains 52.4 per cent. C. O. several qualities varies with the varying require-(Carbon dioxide), and 47.6 per cent. Mg. O (mag- ments to be met. For instance, in some places, as nesia). It has a hardness of 3.5 to 4.5 and specific in hospitals, cleanliness is one of prime consideragravity of 3 % 3.12. It is both harder and heavier tion; in other places immunity from abrasion might than calcite (calcium carbonate) and also contains be one of the principal requisites. As to most of a higher percentage of C. O. 2, as Calcite has but these qualities the conclusion is reached that mag-Most of the California Magnesite is comparat- flooring materials for use in kitchens, laundries. ively pure, and is ordinarily a beautiful, white, fine-toilets and bath rooms, corridors, large rooms or

There is no doubt that the material is steadily In California, the known magnesite deposits, termittent wetting and drying, and is recommended with a single exception (a sedimentary deposit in for shower baths. Naturally it is not acid-proof, and but these are rather special requirements. Its cost "Uses—The principal uses at the present time per square foot is given as 25 to 33 cents, depending on area which is estimated to be lower than "In refractory linings for basis open hearth marble, cork, rubber, clay, or mosaic-tile, slate or

When unsuccessfully used, the causes of failonly satisfactory way of attacking the problem.

WHAT ARE VITAMINES?

made known recently by Miss Hume in one of the point) will destroy them. The chief application of series of publy lectures now being delivered at this discovery concerns tinned foods, as they have University College, London. Her subject was usually been subjected, in their preparation, to in-

ably be unfamiliar to many readers to whom such if continued for some months. technical terms as proteins, calories, and carbohydrates have by this time become household words. They are certain essentials constituents of an adequate diet which are present in minute quanities in most foods in the natural state. They have been divided into two classes. One class consists of the vitamines necessary to growth. In the other class are the vitamines whose absence produces what are known as the deficiency diseases—namely, (1) beriberi, (2) scurvy, (3) rickets.

On the question of the growth of vitamines, which obviously affect the case of young people only, Miss Hum esaid little. They are found largely in fats, and the lecturer accordingly suggested that the fat of milk, butter, and cream should be kept as far as possible for children, while adults made use of the less valuable fats to be derived from such foods as margarine. It is to be noted that the kind of vitamines which ministers to growth is believed to be also the best preventive of rickets.

an exposition of the characteristics of the vitamines whose absence from the diet is liable to bring on beri-beri or scurvy. These diseases affect both struction meeting at Manchester. adults and children. The symptoms of beri-beri are the same as those of peripheral neuritis. It is most common among the rice-eating nations of the East, but they are far from being its only victims. The anti-beri-beri vitamines is most richly present in the cortex or husk and the germ or embryo of cereals, inforced concrete ship. Reinforced concrete, it is and the disease may therefore appear among any stated by the engineers, has a notable flexibility unpeople whose diet consists largely of over-milled der the strain, and will, therefore, be able to stand cereals—that is to say, those from which the mod- the stress of sea duty. So sure are they of its sucern processes of milling have removed the husk and cess that work on 4 similar ships is to be started at germ. In English milling before the war these parts once. of the wheat were taken off and went into the offals. The reason for their elimination was the fact that the germ is very rich in terments. It was therefore debarred by the millers, as it impaired the keeping qualities of the flour.

The pulses, again, are subjected to no destructive processes of milling, and the vitamines are uniformly distributed throughout them. The same Rule and Print Special Blank Forms for Mining and description applies to eggs, including dried prepar- other Industrial Corporations. BLANK BOOKS ruled ations of genuine eggs, but not such articles as cus- to pattern and made in any Style of BINDING. are also present in cow's milk. The only cases known of infantile beri-beri have occurred where babies have been breast-fed by mothers suffering from the disease.

In Miss Hume's opinion, the normal diet of The contribution of woman to the solution of cerned. Even where pure white bread is used, its the food problem is commonly supposed to be con- consumers are protected by the vitamines to be fined to the kitchen. There are indications, how- found in the other articles of their dietary. Most of ever, that she may play an important part in the the foods mentioned seem to keep their vitamines laboratory also. Investigations of great value have very well. There is not much loss of them in cooklately been carried out at the Lister Institute by ing at the ordinary temperature, but prolonged Miss Hariette Chick, D.Sc., and Miss E. Margaret cooking—say for an hour—at a temperature of 110 Hume. Some interesting results of their work were or 120 degrees C (i.e. considerably over boiling "Accessory Food Lactors (Vitamines) in War-time tense and prolonged heat. A diet consisting mainly of tinned foods, together with polished rice and But what are vitamines? The name will prob- white bread, would undoubtedly bring on beri-beri

NEW KIND OF WOOL.

Owner of dogs of long-haired breeds are asked to preserve combings, as they have been found to be of value for the spirning of an exceptionally high class of wool. A British Dogs' Wool Association has been formed to assist in the matter.

GERMAN TOBACCO.

An analysis of samples of tobacco taken from German prisoners of war has shown that it consists of small hop flowers, leaves or stems of horehound, mullein, wild oats, heather, elder and bark.

POST BELLUM TRADE.

The greater part of Miss Hume's fecture was ter the war will be good, and some industries have There is every reason to believe that trade afalready booked orders for five years ahead, stated Mr. G. H. Roberts, Minister of Labour, at a recon-

THE NEW FAITH.

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Synopsis of Coal Mines Regulations.

OAL mining rights of the Dominion, in Manitoba, Saskatchewan and Alberta, the Yukon Territory, the North-West Territories and in a portion of the province of British Columbia. may be leased for a term of twenty-one years renewal for a further term of 21 years at an annual rental of \$1 an acre. Not more than 2560 acres will be leased to one applicant.

Application for a lease must be made by the applicant in person to the Agent or Sub-Agent of the district in which the rights applied for are situated

In surveyed territory the land must be described by sections, or legal sub-divisions of sections, and in unsurveyed territory, the tract

applied for shall be staked out by the splitcant himself, and the dead applied for shall be staked out by the splitcant himself, which will be refunded if the rights applied for are not available, but not otherwise. A royalty shall be paid on the merchantable output of the mine at the rate of five cents per ton.

The person operating the mine shall furnish the Agent with sworn returns accounting for the full quantity of merchantable cost miner and pay the royalty thereon. If the coal mining rights are not being operated, such returns should be furnished at least once a year. The lease will include the coal mining rights only, rescinded by Glasp. 27 of 4-5 George V, assented to 12th June, 1914.

For full information application should be made to the Secretary of the Department of the Interior, Ottawa, or to any Agent or Sub-Agent of Dominion Lands,

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

N. B -Unauthorized publication of this advertisement will not be paid for,-83575.

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Hon. Martin Burrell, Minister.

Mines Branch.

Recent Publications:

Building and ornamental stones of Canada, (Quebec), Summary Report of the Geological Survey for the Vol. III, Report on, by W. A. Parks, Ph. D.

The Bituminous Sands of Northern Alberta, Report on, by S. C. Ells, M. E.

Peat, lignite, and coal; their value as fuels for the production of gas and power in the by-product recovery producer, Report on, by B. F. Haanel, B. Sc.

The petroleum and natural gas resources of Canada: Vols. 1 & II. by F. G. Clapp, M. A. and others,

Electro-plating with cobalt, Report on, by H. T. Kalmus, Ph. D.

The Mines Branch maintains the following laboratpories in which investigations are made with a view to assisting In the developing of the general mining industries of Canada: - Fuel Testing Laboratory, Ore-Dressing Laboratory, Chemical Laboratory, Ceramic Laboratory Astractural Materials Laboratory

Application for reports and particulars relative to having it estimates one and in the several laboratories should be added to the Director, Mines Branch, Department of Mines, Ottawa.

MAP 150A. Ponhook Lake Sheet, Nova Scotia.

Applications for reports should be added to the Director, Geologica Survey, Ottawa.

R. G. McConnell, Deputy Minister.

Geological Survey.

Recent Publications:

Calendar, Year 1916.

MEMOIR 20. Gold fields of Nova Scotia, by Wyat Malcolm.

MEMOIR 44. Clay and shale deposits of New Brunswick, by J. Keele

MEMOTR 59. Coal fields and coal resources of Canada, by D. B. Dowling.

MEMOIR 60. Arisaig-Antigonish district of Nov. Scotia, by M. Y. Williams. MIMOIR 78. Wabana iron ore of Newfoundland,

ty A. O. Hayes.

MAP 63A. Moncton Sheet, Westmorland and Albert Counties.

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