E. R. Faribault, Geological Survey NG RECORD.

MAY 8, 1918

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Superior Dir.	The second second	NORTHBOUNI Inferior Dir
436	STATIONS.	
A. M.		487.
10 40	POLIST TUPPEM.	P. M.
10 35	PRIVATE TUPPEM.	3 40
10 29 10 13	INVERNMES JULT. PORT HAWKEBBURY	3 46 3 50
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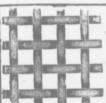
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Concerning the 'Record'

The first Number of the 'Trades Journal' was issued the first Wednesday of 1880. while taking a deep interest in the Coal Trade, was more particularly interested in matters affecting the welfare of those employed in the coal mines of the Province. Its aim was to secure for these better working conditions, and to give them the standing in the community to which, it thought, they were That much good was accomplished along these and kindred lines is acknowledged by all able 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. 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., May 8th., 1918

No. 21

FIRE CLAYS.

or less perplexing. There is no denying the fact that there are shales and what are called "fire clays" scattered all over the province. The question then late eighties, or say thirty to forty years ago, fire arises:-Why have the deposits not been exploit- bricks were made in Pictou County from a seam of tent? Is it that the quality of the clay, so far ex- Gregor". Some ten thousand or more were made perimented with, failed to give the sought-for re- with varying success. The more successful burns sults? That is possible, and yet it may be safely were those where the largest amount of crushed declared that the shales and fire clays have not been brick had been mixed, or added to the clay. The sufficiently tested. In but rare, if any instances, in experiment could not be classed as serious, as the any country, has shale or clay been worked which chief reason for the making of the bricks was to admixture of some other material. Fire clays vary not long continued. a rule no clay is considered a "fire clay" which fuses there are proper shales and fireclays in Nova Scotia at a point below 1600 degress C. The best fire clays why have no serious and systematic attempts been cal composition.

the mass. There are few fire clays that meet all the sary plant for brick making and burning. a larger or smaller amount of organic matter, and fire brick is imperative that the province possesses where this is in excess the clay is rendered useless the necessary shales and clays.

has not, as yet, been discovered in Nova Scotia, for assistance. As a start the Government offered to

be found in almost every county.

has been made for years by the Intercolonial Cool in the development of minerals and if this be assent Company from a seam on their areas. This can be

utilized in the lining of ladles, etc., for which it has been found suitable. But the mining of the clay, This subject, as in the case of iron ore, is more and the making of bricks was not tooked upon as will make fire brick of the necessary heat resisting lessen the cost of repairing the coke ovens, by using properties, or, in other words, that is refractory home made instead of imported brick. The demand enough to make an acceptable fire brick without the for coke gradually fell off and experiments were

The question may reasonably be asked: are held to be those high in Alumina and Silica, and made to utilize them? A reason has already been low in oxide of iron, magnesia, lime, potash and hinted at, namely—that the idea has largely prevailother ingredients. The suitability of fire clays for ed that the needed clay can only be found in councertain purposes depends, it is declared, as much ties possessing the coal measures, and that nearly upon their physical character as upon their chemi- all the coal lands are held under lease; and further Possibly a reason why, as yet, no great success lines to their main business—that of coal mining, has attended the effort to make a suitable fire which demands fullest care and attention. Still, brick is that experiments have been made only with further, the market up to the present time, even The fire with the great advances in recent years, in iron and clays in this class, as might be expected, often con- steel production, is too limited to stimulate the cays in this cass, as inight be expected, often consistent production, is too limited to stimulate the tain nodules of siderite in addition to the carbon-search for, and production of suitable clays, which ate of iron disseminated in fine particles throughout must of necessity precede the erection of the necesrequirements, as already stated, and it is therefore been demonstrated that under circumstances more customary to mix a certain proportion of ground favourable than at present, or, in short, prior to the fire brick, ganister, sand or other clay before mak- discovery of oil wells in the United States, our oil ing up. The proportions of these depend on the shales are richer than those being mined in Scotnature of the fire clay and the purpose for which land, where several large oil shale works are in the finished article is required. As has been found operation, making satisfactory returns, and it may in the clays and shales of the coal measures, there is be demonstrated as soon as the need for home made

Some years ago the Mining Society of Nova It wil scarcely be right to say that the proper Scotia took up the subject of "fire clays" with the kind of clay for making fire brick of desired quality local Government, which promised to render every has not, as yet, been discovered in thora bottom, by assistance. As a start the dovernment ordered to that might imply that a persistent and systematic have analyses of ten pound samples of clay made search had been made. It will be more correct to free of charge. Intimation of this was given short say that the proper kind of clay has not been publicity. In response one or two samples only So far as the writer knows no attempts have other end in view than knowing if the clay was valbeen made to find clay that might be suitable for uable in case parties might come along looking for fire brick outside of the counties producing coal, such. Besides free analyses, free practical tests whereas clay and shales of varying characters may were to be made at the works of the Intercolonial Fire brick which will stand a fairly strong heat are free in demanding that the Government assist Th

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MARITIME MINING RECORD.

second and fourth Wednesday in each month.

Coal Mining - industries of the Maritime Provinces.

application.

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R. DRUMMOND, PUBLISHER.

STELLARTON, N S.

HAVE THE MINERS A 'SAY'.

*Committee , without a vote, recommended certain as the wage of unserned laborers at the mines to-day is mendments to the Act. The senior member for C. B. \$2,50, or on increase since 1885-86 of say 175 per cent. in the House moved non-concentrence. The amendation of the House moved the increase in the wages of ment was lost ten to five. The Eastern Chronicle labor since 1915-16 is some ninety per cent. Now for merchant, b is in his employ and buys from A \$10,00 paints in 1910 lost a donar and ten cents on every ton worth of shingles. On pay day A owes B \$15,00 in of coal sold the workers; to day the loss is five dollars man of the delegation was the old argument used in 1893 that the Dominion Coal Company would undersell, force the other stores out, and then put up prices. That argument was used twenty five years ago, and the complaint is that coal is extortionate in price. Perhaps Mr. Drun mond is a tory. Is Neil J. Gillis, M. Cameron, of Cape Breton, introduced a bill with the L. C., a former bitter opponent of the companys stores intent of making it obligatory on the Dominion Coal one? He was strongly opposed to Mr. Lavette's state- Company to pay the miners in cash instead of by ordly opposed to the extravagant remarks in reference to the amount paid out ln wages. Will it surprise the Record and E. Chronicle that the suggestion to delay government were the sponsors, and the present govthe coming into force for six months was made short- erument is tory. Murray and his government having ly after the retirement of the delegation from the com- been read out of the Liberal party by the E. C., about mittee room. The animus of the Record and Eastern the time of the last federal election, with the possible Chronicle is visible in the remark that Mr. Drummond exception of Hon. Mr. McGregor, who the E. C. at made an amendment. Here is the precise happening: that rime placed between the d. and the d. s. and left with amendments, and with such amendments recomand with such and the favorable consideration of the House, workmen by orders on their stores; on the contrary, the committee be not agreed to.

WAGES AND PRICES.

THE MARITIME MINING RECORD is published the in reference to the wages paid colliery workers, and THE RECORD is devoted to the Mining - particularly of the much discussed question, coal cutters' wages, the selling price of coal He only touches one phase Advertising Rates, which are moderate, may be had on 'The 'underpaid' men', that is, the ordinary colliery laborer, and the price of coal; and it is the laborers who are receiving the whole hearted-or other wisesympathy of the press The Record has much sympathy with the laborers; we don't lose any sleep over the miners for if it is possible for coal cutters to earn May 8, 1918 eight dollars a day, and it is possible for them to do

It is scarcely worth while to reply to the account the standard wage of laborers at the collieries was It is scarcely worth white to reply to the account the standard wage of laborers at the conferes was in the Sydney Record as to the clause in the C. M. R. eighty to ninety cents a day. In 1886 the collierier in in the sydney kecord as to the change in the C. St. K. eighty to untity cents a day. The tool the company stores. There was no as Pictou Country struck for a standard wage of \$1.00 a. A., referring to company stores. There was no a recton county struck for a standard wage of St. oo a mendment of the nature signified by the Record. The day. This, after a sharp struggle, was conceded. menament of the nature signment by the second. The way. This, after a snarp struggle, was conceded. 'Committee', without a vote, recommended certain a. The wage of unskilled laborers at the mines to-day is

ment was rost ten to ave. The mastern Chromete moor since 1913-10 is some unitery per cent. Now for need not be amazed at the stand taken by Mr. Drum the miners. The anerage wage has increased since need not be annazed at the company proposed to close 1916, say, 60 per cent. The price of coal in 1916 was mond. About 1990 the company proposed to case 1910, say, no per cent. The price of coar in 1910 was the stores. Mr. Drummond protested, a plebiscite of \$4,00 per ton. Sixty per cent, on \$4,00 would give a the stores. Mr. Drummona protested, a precisence of \$1,00 per ton. Sixty per cent, on \$4,00 woma give a the workmen was taken, and the vote went in favor of price to-day of six dollar. I firty cents a ton. At the continuance of the stores. The company store this moment we are of the opinion that the price in the continuance of the stores. The company store this moment we are of the opinion that the price in system is not the track system; there is no compul- 1916 was for the long ton. Accepting that as correct sion. The complaint of the shop-keepers delegation the price per ton—short ton—to-day would be approxsion. The companie of the shop scepers delegation the price per ton—short con—to-day would be approximately \$5.75. And it must not be forgotten that was that the retention of wages for supplies was dis- imatery \$5.75. And it must not be forgotten that criminating against them. Mr. Drummond asked the there never was a rise so rapid in the cost of material criminating against them. Mr. Diuminond asked the there never was a rise so rapid in the cost of material chief spokesman of the delegation if they would be as during recent years. We wonder how the coal price content if the Dominion Coal Company accepted orderelormers would feel if, basing put their money in a content if the Dominion Coar Company accepted the reformers would reer it, nating put their money in a ers in their favor. The reply was, haltingly, in the concern fourteen years ago, they had 50t yet received ers in their favor. The reply was, narringly, in the concern fourteen years ago, they mad 50t yet received negative. There is a good deal of ignorance in the a cent in dividends. We have half a mind to ask the press as to the Dominion Coal Co's, stores. The men editor of the News, who should be in a position to press as to the Dominion Coar Co.s. stores. The men editor of the News, who should be in a position to do not get unqualified credit. They are restricted, answer, what is the average dividend per annum paid do not get unquanneo credit.

They are ristricted, answer, what is the average dividend per annum paid and thereby are taught thrift. The question resolves the common shareholders of the Intercolonial Coal Co. itself into this: Does the new clause in the C. M. R. during the past forty-five or forty-six years. A little itself into tims: Does the new clause in the C. Si. K. during the past forty-live of forty-six years. A little A. abolish 'off-sets'. For instance, A is a lumber item that some overlook is the fact that the coal com-A. abouts of one sets. For instance, A is a funder item that some overlook is the fact that the coal commerchant, B is in his employ and buys from A \$10,00 panies in 1916 lost a dollar and ten cents on every ton

WHEN THE BLIND

Says the Eastern Chronicle:

To which the Record replies :

Mr. Lavette moved in a long speech that the report of a large number give the company orders to make certain deductions from their wages.

miners of a right conceded to workers generally in our printed the only amendments proposed to the communities

COMMENTS ON C. M. R A

On another page we refer to a number of the Amendments to the Coal Mines Regulation Act. There are many other sections in the Act which could well afford amendment, but though the Sesleft in the C. M. R. A. a number of words and phrases, which remind one of the bulbs on some folks heads, harmless so far as the one who carries them goes, but not attractive to the onlookers, and in the Act, while harmless, are nevertheless deformities, which like the bulbs or balls referred to could be removed and add to rather than detract from its effectiveness. The manner of giving the interpretations is borrowed fro mthe British Columbia Act. more complicated scheme has been elaborated, but as the mode of procedure is left largely with the Commissioner of Mines, a system may finally be evolved which will not give room for criticism.

ments to the bill as it came from the House of As- the privilege of doing, and they stoutly adhered for sembly. Two of these were agreed to by that body the substitution of "may" for shall, thus bringing and two were rejected. The Council adhered to its into conformity with the Act as it stood in 1917. amendments and a conference was the result. The Thus, the result of the conference was a compromvote in Council was two to one in favor of adher- ise, the honors at the same time going to the Counence. One of the amendments of Council to which cil. As stated, there were two to one in favor of the Assembly would not agree was that section 39 adherence to the amendments made by the Council should be struck out. The section reads :-

to or occupied therewith.

section should be cut out, said to have such a clause ments of the Hon. member from C. B., stirred up rein the Act was alike an insult to the employers and sentment when otherwise there inight have been employees. He claimed that it was senseless; that none. The member for Pictou said the statement there were no beer or wine shops in Nova Scotia; as to the amount of wages paid ou thy the Domin that all but prohobition prevailed in the mining ion Coal Co., was largely poetical. Waving the first counties, and that people outside the province statement of the member for C. B., that the amount would say, "They have prohibition in Nova Scotia, was \$16,000,000, he was content to take the correct and yet they have to interdict the payment of wages ed statement as the first was made surely on mer in grog shops. It would further leave the impres- impulse. Let \$10,000,000, the corrected figures of sion that our coal miners were, as a rule, small and the member be looked into. After a statement like insignificant. He had in his nigh fifty years connecthat could any hon, member wonder at the high tion with the mines, never known of a case when the price of coal. Ten million dollars in wages mean payment of wages was attempted in a rum shop, that the cost to the company of every ton of control of the control of the company of every ton of control of the co bly were against striking out the section. The old did not sell every ton raised. The Company pair fogies, however, had their backs agains: the wall wages on over 415,000 tons of coal used at the and the boys in the conference, after a long indul- mines, coal designated in the Mines Report as "Co gence in sighs and sobs, gave way.

(3) The bill is surely 'tory' in that it deprives to deductions of wages. In the Act as drafted and clauses as they stood were transforming the word The consolidated bill, as it came to may into shall. Council, had only two sub-sections instead of three. Here are the sections as printed in the bill:

46. (1) The wages or salary of any employee of any mine shall not be paid otherwise than in money current in the Dominion of Canada.

(2) Any such employee may by order in writing authorize his employer to apply the whole or sion of the Assembly was long enough, there was any part of the wages or salary due to such emno time left to discuss these. There have still been ployee to the payment of any debt due by such employee, but any such order shall be effective only for the weekly period specified therein, and for an amount specified thereia.

Every such employer shall without any so certain words and phrases which have been left order retain out of the wages or salary of any such employee any sums due by such employee in respect to powder, coal, oil, rent, check-weigher's fees,

doctor's fees, or church or society dues.

As the bill came to the Council sub-section two was struck out. The first sub section was re-All the Record has to say is a better model might tained, with the addition of words "from which have been chosen. In an attempt to simplify the there shall be no abatement," or words to that ef-Section referring to Boards of Examiners, a much fect. The Council did not make much objection to the words "without abatement" but they objected to the striking out of sub-section 2 on the ground that it was a serious interference with the liberty of the subject, and that miners should not be banned The Legislative Council made several amend- from doing what all other kinds of employees had Law Amendments Committee. Before the moti No wages shall be paid to any workman em- to concur was made, a member of the Council went ployed in or about any mine at or within any pub- strongly in for the Assembly's amendment on the lic house, beer shop or place for the sale of any ground that it would set ten million dollars of spirits, beer, wine or other spirituous or fermented money paid as wages into circulation in Cape liquor, or other house of entertainment, or any of- Breton County. He mentioned sixteen millions at fice, garden or place belonging or contiguous there first, but afterwards modified the statement. He was opposed to the Company's stores as a continuation The member of Council who proposed that the of the truck system. The largely exaggerated stateliery Consumption coal for workmen, and increase The other Amendments of Council to which the on bank as compared with previous years." The Assembly would not agree, were those in reference would make the cost of the coal to the Company

по

over three dollars a ton for wages alone, exclusive may if necessary to give effect to such permission of the cost of material, a formidable item, overhead cancel or revoke any such license or lease, either in might have added that if the company paid out the sioner, may be necessary or proper to carry into efamount stated in wages and sold coal at the fuel feet the provisions of this section Provided: the company into bankruptcy. The junior member effectively worked for ten years; clearly, concroverting many of the latter's rash ively workel in connection with any other mine of discussion. All hands are satisfied with the outcome of the conference. The store keepers of Glace will not interfere with or injure any other mine of come of the conference. The store keepers of Glace will not interfere with or injure any other mine of Bay wanted the words "without abatement" insert- the licensee or lessee or the reasonably probable futed and they got their wish. The autocrat members are operation of the same; ed and they got their wish. The autocrat members are operation of the same; —officials rather—of the A. M. W. wantec "shail" (d) Such seam or part of seam is so situated, or restored and they didn't get it. And why didn't the remaining area or areas of the licensee or lessee tic request that ever came before the Council. It er the future operations of the licensee or lessee will was an attempt to invade the rights of individuals, not be unreasonably prejudiced or interefered with; It was an attempt to make a man pay dues and fines It was an attempt to make a man pay dues and times

(e) The applicant pays such reasonable compens whether he was a member of "Society" or not. It sation by way of royalty or otherwise to such licenwas the "check off" with a vengeance. Mr Camsee or lessee as the Commissioner may determine: understood, was thrown out of the House of Assem-necessary or proper that such seam or part of seam bly, the Atty. General, or his deputy having stated that the bill was unconstitutional. If a bill asking for simple recognition was so declared, what is to be said for a bill asking for an advanced form of recognition in the shape of a computsory stoppage of dues fro mwages without consent of wage earner.

Why make collection of dues, etc., compulsory when the companies are already voluntarily making by repealing Sections (7) and (8) of said Chapter. reason for the demand for compulsory retention of dues is the desire of the head officials of a certain society to have it ordained by the legislature that they are in very truth and not in seeming "tappit" cocks of the walk.

RESPECTING UNWORKED COAL AREAS.

Be it enacted by the Governor, Council, and Assembly as follows

1. Chapter 26 of the Acts of 1916 is amended

by adding thereto the following section:

"(12) The Commissioner may grant to any applicant permission absolutely or for a limited time to mine coal from any seam or part of a seam of coal

The member for Pictou whole or so far as, in the opinion of the Commis-

(a) Such seam or part of seam has not been

should be worked to supply pressing local or other necessity or demand.

The provisions of this Act respecting revocation of a license or lease shall, so far as the same are in the opinion of the Commissioner applicable, apply to proceedings to be taken under this section.

Chapter 26 of the Acts of 1916 is amended

Rubs by Rambler. =

In the Towns Incorporation Act there is a sec-A short but interesting bill has been introduced ted a crime entitling him to a term in the penirention which declares that any one who has commitin the House of Assembly by Mr. Graham, the juntiary is not eligible for election as Mayor or Counfor member for Pictou County. The bill is not a cillor in any town. This clause was allowed to rebad bill in its way. It may be, indeed, called moder- main in the bill to Consolidate and Amend the ate, but in one respect it may be criticized. If an Towns Incorporation Act in its passage through the and the one respect it may be criticized. If all Towns incorporation det in its passage through the applicant, call him A, is granted privilege to work House of Assembly. In the Committee of the Legon a lease held by B. What guarantee is there that islative Council, it was agreed to strike out the Section 1. A. will work the mine continuously, and not cease tion, the reason advanced by the member from Picoperations whenever the demand is insufficient. Or tou for so doing, being that there was not a particle he may work the outcrop only and cease operations, of Christian principle, in its retention. The section previous to the need arising to erect an expensive should never have been in the Act. The mission of plant Some such provision, however, may be re- John the Baptist was a call to repentance. He urgan applicant to work on a lease already granted.

John the Baptist was a call to repentance. The biged upon part of his hearers to "bring forth fruits
meet for repentance." Why should they, seeing that they were never in this life to have practical forgiveness, but having sinned once, were always to be accounted and branded as such? A lad of say, twenty, commits an offence, punishable by a couple or so of years in penitentiary. On coming out he strives, and succeeds, in living a new life. He prospers in business, and is well thought of in the comnotwithstanding the same lies in or under any area than ordinary business acumen, and yet he dare not or tract of ground held under license or lease, and run for Councillor. The law forbids it.

allowed to fill the highest office in the gift of the after number one. town.

Church Choirs, and singers generally, should take particular pains as to enunciation. It were better, it might be well at times to learn a little staccatowards, than to run the tones or the words they sang, while all the time the Choir believed they words "working face." Here is the sub-section in had sung, "O God our help in ages past." The mis-full: take was a natural one for a reporter unfamiliar was the same reporter who gave a new name to a or loosened. well known song. In an account of a concert, at What exactly is the meaning of the word "re-which one of Halifax's best known sopranos moved" in this Sub-Sec.? May it not be said that took a part, he related how Miss --- had captivat- in a balance the cage runner is employed in "removed her audience by her beautiful rendering of the ing" coal. If so he is never near the "working face." thrilling song "Call the Roll." Next day, after readbeen trying to sing the well known song "Caller-oo" ing strictly to business.

Drummond" was asked how much of the last in- candidates for the position of, say, Manager. crease in the price of coal did the miners get?" He Drummond would care to go, and tell the News cessor has been appointed. something its editor may be none the worse of the agent of the G- M. A. told a committee of the established. House of Assembly that a collier's wage was eight men at a Pictou County Colliery was \$5.00 a day tion b. c. of section 10, in order to recognize students Some miners made eight dollars a day, but let the

such a heathenish law. When the Psalmist prayed average be taken. To err on the safe side let me that God would blot out the sins and errors of his take \$2.25 as the average wage sixty years ago. The youth, he knew that the forgiving included the forgetting to all intents and purposes, of the errors of price of coal was \$2.50 per ton. If the same per his youth. Man does not forgive in that fashion, centage of increase is taken, the present price would He does not forget; the errors are noted, the law be \$5,50. Add the greater cost of material, withtakes notice of them, and ordains, that his former in the past three years, and one may not be surpriserrors are so many counts against him, and he is ed at the present price. It may, I think,, be acceptexcluded from filling the position of a town council- ed as a fair statement of fact that the increase in lor, not to say that of the dignified position of wages has corresponded with the increase in the Mayor. A youthful penitentiarian may become in price of coal-or vice versa, as readers choose-for later years a Senator or an M. P., but he must not the past sixty years. I am not downhearted as to dream of being a town councillor. Whereas any the workmen's share of any increase in price. They other kind of confirmed and unrepentant rascal is are not babes and sucklings. They can well look

THE CONSOLIDATED MINES ACT.

Before it passed its final stages, the Act to conof a hymn or a song, into each other; that is, if they solidate and amend the Coal Mines Regulation-Act wish listeners to know what they are singing about. was amended so that those responsible for its intro-The choir of one of the more prominent of Halifax duction must have wondered at the ingenuity of city churches were in attendance a week or two ago man. The amendments were numerous, and there at the funeral services held in connection with the would have been many more had not prorogation death of a well known citizen. The reporter of one excluded further discussion. For instance, take the of the daily papers evidently not well up in hymn-interpretation of "Mine Examiner." Among his ology, referring to the part taken by the choir said, other duties he is to supervise the use of explosives "One of the hymns sung was 'O God our helping used in "breaking" coal. There is unconscious days are past." That was what he really thought humor in the word. In order to make a sure shot, the Choir had sung. Owing, presumably, to faulty some will actually break the coal into minute fragenunciation, he gave that as a translation of what ments. Take again, the "interpretation" of the

(r) "Working face" means any place in any with the best of Isaac Watt's hymns to make. Don't mine from which coal or other mineral to which this blame him, blame the Choir. 'I am wondering if it Act applies is being cut, removed, sneared, broken

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A further change has been made in the section ing the paragraph, one could have knocked the lady referring to the Board of Examiners. The Board singer down with a feather. She imagined she had is to consist of "the Inspector of Mines, one Mechanical Engineer of recognized fitness, and two Min-"oo" a call long drawn out. In this latter instance ing Engineers of recognized fitness." In the clause the songstress' articulation was defective, while as it was introduced there were two Coal Miners the ears of the reporter could not have been attend- and two Engineers. The two miners have been been omitted and rightly. It was somewhat of an anomaly to have two men, who had, perhaps, no In the Evening News some time ago "Mr. higher certificate than that of Coal Miner, examine

When from death, resignation, or otherwise, a cannot answer that, as he is not auditor for any mine is deprived of a Manager, the mine may be coal company. But I will go further than Mr. worked for ninety, not fourteen days, until a suc-

Section 4 and 5 of Section 9 are struck out. knowing. I do not mention the name of the News These had reference to the writing of answers to Editor; it is not good form. Sixty years or so ago questions. A new system of sub boards is to be

Amendments have been made to the qualificashillings a day, and Pictou Coal sold at \$2.50 a ton. tions of candidates for the higher certificates, for The average wage last November of all underground instance, the following has been added to sub sec-

(Continued on page 12)

AROUND THE COLLIERIES

The rope haulage system which displaced the air locomotives in Dominion No. 2, is giving splen- the wages being paid the workers are insufficient to did results and is more flexible than the air motor keep body and soul together; the 'movies' say, night system now that the deeps are being extended, and in and night out, S. R. O.

The rope haulage of Dominion No. 11 has been extended and two new landings have been added to

Work on the new shaft which is to form an exit for Dominion No. 2 men and to shorten the long walk of the Dominion No. 1 men, has begun and the shaft is now down over thirty feet. It has been found difficult to get labor of the kind necessary for shaft sinking without taking some of the older and experienced men from the collieries.

While the President of the A. M. W. of N. S., is in Newfoundland getting men for the mines there are many of his countrymen slipping quietly out of the colliery districts for their homes. The call of the sea no doubt appeals strongly to them at this

uncovered and work on opening up the seam is fast year. proceeding. This is one of the coal seams that could scarcely be worked except through some other mine and tapping the seam through a tunnel from another colliery seems almost an absolute necessity.

Birch Grove mines benefitted much by the adding of the new electric turbines to the power plant drawn, but "twelve" will continue to be a good proof Dominion No. 2. Sleet storms sometimes inter- ducer for many years. fere, but even these in time will be taken care of, and wires may be placed where they will be immune from the frosts and storms of this wild island.

The writer had a peep at the 'Pottery mine' when in operation, and hopes that New Glasgow folks will purchase or secure a controlling interest. there may be wisdom coming to them. And the people of Westville may get wisdom too if they have a try' at the 'Black Diamond'. What the late Harvey Graham and associates left in that mine is, possibly, suggestions to the government, to increase the effiested in the last operations conducted at that colliery, "They are welcome to all the unworked coal they will vestigation of the overhead charges, including the get in that old mine". But why should anyone say cost of maintaining the official staffs of the operat-

Development work in Caledonia and Dominion effected by the addition, to the clause in the C. M. R. There are those who wonder if anything has been No. 6 is well ahead and these collieries are giving Act, referring to payment of wages, of the words from lack of places, but rather from labor, no mat- candor characterized the counsel when advising his

Dominion No 15, in keeping with other collierswell the output of this colliery. This with the addition of three new headways will make No. 11 a fair- are being pushed down and other development work being done. The long wall work of this mine has been narrowed down to a very few places.

In the new wage agreement the Inverness miners will get their track put in for them by the Coal Company. Recently the men made strong complaint against having to do thi swork, as it entailed much loss of time and therefore a loss of output to the mine. It is to be hoped that the change may have a good effect and an increased output may

Under the proficient management of the imperturbable Jim Connors, Dominion No. 16 is holding its own. This is saying much when we remember that Jim is surrounded by many capable and able The coal of the Barrasois seam has now been ly good condition to add to the coal output of the men. With considerable hustling the mine is in fair-

The deeps of Dominion No. 12 are being put down for another lift and other new work opened up. Number 12, is the oldest of the Waterford collieries and travelled ahead very rapidly during the

When will the representatives of Cape Breton cease knocking their own industries. Knocker before the war was the popular role. But surely that phase of public life has passed. To boost the things that are and the industries established is more meritorious than to holler oneself hoarse over the industries that might be.

Mr Douglas submitted a number of practical ciency of mining operations and enlarge the output anything likely to damp the ardor of those in either ing companies, with a view to lessening, wherever possible, the expense of production. Another was

that underpaid employees should at once be given good living wages. With war-time fiving costs, there must be war time wages for workers.

A third was that the coal companies should be obliged, at least during war-time, to spend their excess profits in improving conditions at the mines, with a view to economy of operations, safety and comfort of employees, and larger output. Finally he urged the immediate appointment of a government official, with proper qualifications, to push a "patriotism and production" campaign in the coal mining areas of this province.

The above is from the Sydney Post. The Coal Companies are doing all asked for in the first sentence of the second paragraph, and for this very thing they have been denounced by certain officials

of a certain "Society."

(Continued from page 10.)

of the Technical school-"Or has had such practical experience in N. S., or partly in N. S., and partly elsewhere as may b erequired by such regulations, for a period of not less than three years, and is the holder of a degree as a Mining Engineer from the N. S. Technical College, or any other College or University approved by the Commissioner, the course of study in which involved training in and knowledge of scientific and mining subjects.

In section 23, the word "deputy" is struck out. Exemtpion from appointing an examiner is now properly in the hands of the Inspector, the respon-

sible officer of the Mines Department.

The same section says that the part of a mine assigned to an examiner "shall not be of such a size as to prevent him in thorough manner carrying out the

duties assigned to him."

This new duty has been imposed on Deputy Inspectors: "Immediately after each visit the Dep. Ins. shall cause to be posted in some conspicuous place, at or near the mine conveniently accessible to the workmen in such mine a statement showing what part of said mine he had visited and the conditions found to prevail therein." The deputy is now the one to say where lighting stations will be placed in a mine.

Every mine to be visited "once" during a shift, instead of twice as in the Act as introduced. This means an additional examination from the past

method.

There are many other Amendments, a thorough understanding of which could not be arrived at, unless almost an unabridged copy of the 'Act were presented, and that is impossible.

Reference is made elsewhere in these columns to amendments which provoked extended discussion.

Coal Shipments, March, 1918,

-DOMINION COAL	CO., LTD.—
Output and Shipments for	or March, 1918
-Output-	-Shipments-
Dominion No. 1 31 591	
Dominion No. 2 52 989	
Dominion No. 4 26 54	
Dominion No. 5 10 060	
Dominion No. 6 20 327	
Dominion No. 7 5 549	
Dominion No 9 22 865	205 138
Dominion No 10 8 148	200 200
Dominion No 11 9 848	
Dominion No 12 15 312	
Dominion No 14 16 908	
i)ominion No 15 11 604	
Dominion No 16 12 465	
Dominion No 21 13 167	
Pominion No 22 12 283	

	-		
Shipments Decrease	+4	1918 205 1917 225 1918 19	092
Shipments	3 mos.	1918 641 1917 719	455 555
Decrease	3 "	1918 78	100

273 029

SPRINGHILL .-

Shipments	March	1918	27 087 26 686
		1918	
Shipments	3 mos.	1918	78 969 75 141
		1918	3 828

-NOVA SCOTIA STEEL & COAL CO.-

Shipments	M	arch	1918	38	552 112
Decrease			1918	5	560
Shipments	3	mos.			867 260
Decrease	3	186	1918	5	393

ACADIA COAL CO .-

Shipments	March	1918 1917	11 563 23 756
Decrease		1918	12 193
		1917	
Decrease	3 "	1918	29 082
The second		THE PROPERTY	0

INTERCOLONIAL COAL CO.

Chinmanta March 1918

Dulpmence.	H	1917	13 803
Increase	44	1918	857
Shipments		1918	42 766 35 877
Increase	3 "	1918	6 889

DRASTIC AMENDMENTS TO THE MINES extended or revoked by any, subsequent order or

The following is the copy of a bill, now an Act -which will make possible the Towns of New Glasgow, Westville and other towns, and also individuals, to engage in coal mining, possibly under certain-drawbacks :-

Be it enacted by the Governor, Council, and

Assembly, as follows:

to do and authorize such acts and things, and to the Commissioner to the Chief Justic of the Supreme make from time to time such orders and regulations Court of Nova Scotia. Such Chief Justice shall as he may deem necessary or advisable for the purhave the power to make rules governing the procedpose of security or assisting in securing an increase ure upon any reference made to or proceedings takcertainty but not so as to restrict the generality of the foregoing terms, it is hereby declared that the force during the present war, and until by the issue powers of the Lieutenant-Governor-in-Council shall of a proclamation by the Lieutenant-Governor-inextend to all matters coming within the classes of Council ; is declared to be longer in force.

(a) Revocation or cancellation of any lease or license heretofore issued or granted, of any areas or parts of areas, or tract of ground containing coal

(b) Permitting any person or persons, upon such terms and conditions as may be determined, to and electricity. Symbal Cu. Atomic weight 63.57 mine coal from any seam or part of seam not being Specific Gravity 8.79-8.93; Weight of a cubic foot license or lease by any other person or persons.

(c) Revocation, cancellation or suspension of any license or lease of coal areas heretofore or here- at 949 Fahrenheit. after issued either in whole or in part upon such terms and conditions as will lead to the working of

adian Fuel Controller in carrying out any regulations of the Governor-General-in-Council made to

(e) Co-operating with the Government of Canada in aiding and assisting, where deemed desirable and necessary, and upon such terms and conditions as may be determined, any person or persons who can increase the production of coal, by loans or advances of money to such person or persons, or by becoming on behalf of the Province, Guarantors to any Bank or Trust Company that may make any such loans or advances to such person or persons.

of increasing the production.

(h) Borrowing on the credit of the Province ing out the provisions of this Act, upon such terms

and conditions as are deemed necessary.

(2) All orders and regulations made under this section shall have the force of law, and shall this section shall have the force of law, and shall present in Nova Scotia. Some prospecting was be enforced in such manner and by such Courts, done in 1917 at Caribou, Pictou County and at Oscotians and authorities as the Liguisianant Cover.

regulation; but if any order or regulation is varied, extended or revoked, neither the previous operation thereof nor until duly done thereunder shall be affected thereby nor shall any right, privilege, obligation or liability acquired, accrued, accruing or incurred thereunder be affected by such variation, ex-

2. Whenever any coal lease or license or part (1) Notwithstanding any of the provisions of the Lieutenant-Governor-in-Council ander the pro-Chapter 10 of the Acts of 1911, "The Mines Act," or visions of this Act, or any Order-in-Council, order thereof, or the use thereof has been appropriated by of any of the amendments thereto, and notwith- or regulation made thereunder, and compensation stand any lease or license issued thereunder, the is to be made therefor, and the amount thereof has Lieutenant-Governor-in-Council shall have power not been agreed upon, the claim shall be referred by en before him under this Act.

COPPER

Copper is one of the best conductors of heat then worked, notwithstanding the said seam lies in 557 pounds. It is the only metal that occurs in its or under any area or tract of ground held under native state in large masses. It occurs in various ores; the most important are Chalcopyrite, Chalcocite, Cuprite and Malachite. Pure copper melts

About three-fourths of the world's output of Copper is derived from Chalcopyrite. It occurs in (d) Assisting and co-operating with the Can-material of various kinds, often quartz. Other sulveins, in masses, and is diffused through gaugue phides are usually found associated with it; somesecure an increased output of coal in the Province, cobalt. Chalcopyrite is a sulphide of copper and times silver and gold occur; mostly nickel and iron-sulphur 35.0, copper 34.5, iron 30.5. Anlysis often show variations from this formulae. When it becomes tarnished it is known as peacock ore. It has a metallic lustre, an uneven fracture, brassyellow colour and green-black when powdered. It is distinguished from pyrites by its colour and hardness. Copper ores are those carrying more than 21-2 per cent. copper. Ores of copper are found at Cape d'Or, Cumberland County, and many outcrops are seen between Springhill and Pictou; some of (g) Operation of any coal mine for the purpose Lake and Lochaber, Antigonish County; at Coxheath, near Sydney; at Cheticamp, Inverness Counsuch sums of money as may be necessary for carry- Copper was found in the Colonial Copper Comty and in Victoria County, near Oregon. Native pany's mine at Cape d'Or, but never in quantities to be commercially valuable.

Officers, and authorities as the Lieutenant-Govergen, Victoria County. The total production of Copnor-in-Council, may prescribe, and may be varied, per in the province has been small. There are only

three or four places where Copper has been found to be built. in sufficient quantities to warrant investigation. There being at present no assured ore supply, the 1900 on a somewhat pretentious scale. The work

Chalcocite treated at the Crown Mining Co's smelter, some years ago, produced, it was declared, 60 per cent. Copper matte. Chalcopyrite carrying gold and silver, is found in the L'Abime district, Cheticamp, Inverness Cour y. The claim, which is 20 years ago. Samples taken across the entire face of the deposit have run from 2.4 to 5 per cent. metallic copper, while samples from lenses have run from 5 to 8 per cent copper. The ore carried as high as \$8.50 a ton in gold and silver. The lowest estimate of the cop, er contents of the rock, has

The tabulated statement made below was made some 20 years ago when copper was selling at 12 1-2 cents, a pound. With Copper now selling at 45 cents a pound, the results should show proportion-

Gold Silver Copper Sample From weathered outcrop ...\$1.32 1.03 2.40 p.c. From quartz gash veins.... 6.60 4.40 7.81 p.c.

One test gave the following values:-

above should give a value of about \$80; of course about 25 or 30 per cent. of this value should be deducted for smelting and marketing.

From 1880 to 1892 Copper was mined at Cox- pounds per square inch.

Mr. Harry Piers of the Provincial Museum who in an official capacity visited the much talked of property a few years ago says of the deposits at Coxheath, the property of the Boston Holdings Co .: "This well known deposit has been extensively developed and is one of the most promising ones in the province. The Company was formerly known as the Eastern Development Company and until a couple of years ago (1901-2) as the Cape Breton Copper Co. The mining areas cover two square miles and the land and water areas, held in fee, 1094 ring, and were steel hard at cone 05. At cone 1 acres. Four shafts are on the property and the numerous blisters began to appear. It is badly blisareas have been also well prospected by test pits, and trenches. The first shaft was sunk in 1880 and the last one in 1892. The plant is an excellent one cliffs along the shore showing southerly dipping and includes steam hoists, rand slingers, drills, beds of shales and sandstone. large ore tables, trams, saw mills, etc. A large amount of ore is on the surface, and a sample taken along the shore to the north. Tests show that the right across the pile, gave an average of 7 per cent. o fcopper. The mine has been closed since 1892."

1917 reports were current that stimulated by the and work proceeded with. But so far nothing has good hard bricklet at the latter cone. been heard of work having been begun again. At the present time the Coxheath deposit labours under a disadvantage. It is at a distance from transportation. The product of the mine would meanroutes, or else a short branch railway would require clay, which ranges in thickness from 18 inches to

The Colonial Copper Co., began operations in establishment of a smelting industry is hardly a the Company accomplished up to 1903 may be summarized as follows:-. . .

Continued from page 6.

ed to on the condition that the requisitionists do some preliminary work, such as dig a sample of clay, we look sour and think they should do the digging also.

Referring to fire clays encountered in the Inverness Coal Field, a Geological Report, among

"Little attention has been given to the shales of this area, the coal alone having been regarded as

worthy of consideration.'

Along the South Shore of Inverness, there are eighth of a mile south of McIsaac Pond, a 21-2 foot coal seam outcrops, and this is underlain by a bed of smooth, plastic, moulded clay shale, not less than eight feet thick. The following tests give its proper-

This smooth plastic shale when ground up Wtih copper at its present price, a ton of the ready for moulding had 63 per cent. of grains that would pass a 200 mesh sieve. It was worked up with 21.2 per cent, of water, had an air shrinkage of 5.7 per cent and an average tensile strength of 145

> The burning tests of the wet-moulded bricklets are given below :-

Cone	Fire	Shrinkage	Absorption	Color
.010		0.8	12.13	Buff
.05		2.6	9.61	Red
.03		6.6	3.18	Red-brown
1		6.6	1.80	Red-brown
3		5,	.00	Brown

The bricklets burned at cone 010 had a good tered and past vitrification at cone 3.

North of McIsaac Pond are a number of low

More sandy shale outcrops a little farther shale, although sandy, works up to a very plastic mass with 19.4 per cent. water, and 4.4 per cent, air Again the question is asked, "If the ore yields shrinkage. At cone 010 the fire shrinkage is 0 per the results given, why is the property idle?" In cent., absorption 16.01 per cent., and color reddish buff. At cone 03 the fire shrinkage is 3 per cent, high price of copper the mine was to be reopened absorption 8.88 per cent, and color red. It gives a

> The most important deposit in the district is the clay overlying the 13 foot or Hussey seam.

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This is well seen in the outcrop along Big River, north of Inverness, where a drift was run in, time have to be carried by teams to connect with known as the Hussey drift. The coal seam at this the Canadian Government Railway at one of two point is overlain by a clean looking plastic grey nearly 3 feet. This is in turn overlain by ar 18 inch on the east side of the East River and on the right seam of coal, and over this again there is a dark hand of the eastern highway leading from Stellarton

The following tests give the properties of the

clay from the Hussey drift:

ever, contains so much fine sand that only 58.4 per with the exception of coal and gold, belong, in nearcent passes through a 200 mesh sieve. It took con- ly the whole territory named, to the soil. There is siderable water (30.8 per cent.) to work it up and a solitary area in which all the minerals, including had an air shrinkage of 8.5 per cent. The average fire clay, are reserved to the crown, or the local govtensile strength was 206 pounds per square inch. ernment. Further reference may be made to this The burning tests on the wet-moulded bricks are anomaly in the article on oil shales-

Cone	Fire Shrinkage Per Cent.	Absorption Per Cent.	Colour
010 05 03	0.3 4.3 6.6	15.74 9.79 2.25	Pink Buff Buff Dark Buff
3 5 9 The cl	7.3 10 5	0	Buff Drab Drab Grey

dry-press body at cone 1.

A chemical analysis of this clay made by M. F.

	1a	
Ferric	ovide	 26.80
Titanic	oxide	 2.58
	oxide	1.50
		0.25
Potash		 0.73
Water		 3.43
		 8.39

100.25

This is one of the best clays found in Nova burning qualities also make it available for stoneware manufacture. Lastly, it represents a type of clay used for mixing with short fibre asbestos for making asbestic."

in Pictou County a company by the name of the Standard Clay Products Company engaged in the manufacture of drain pipe and tile. The business Rule and Print Special Blank Forms for Mining and has, apparently, been very successful. In 1916 the other Industrial Corporations. BLANK BOOKS ruled company made 1,355,000 feet of drain pipe and tile. to pattern and made in any Style of BINDING. The output in 1917 fell off to a trifle less than a million feet, due to conditions brought about by the war. Additions are continually being made to the plant affording proof that the "fire" clay is suitable for the purposes of the company. The clay seam is

shale, which could not be properly sampled owing to to New Glasgow. In the vicinity of the plant there wash from the upper part of the bank. are other seams of clay or a continuation of the Clay is very plastic in its character, and seam now being worked. As with shale, so with appears to be free from coarse sand, but occasional fire clay. In some of the localities in which these pyrite nodules were noticed. If this clay seam is are found they have been reserved to the Governworked it would have to be in connection with the ment, while in other instances they belong to the 13 foot coal, and as the latter contains good coal in owners of the soil—a most awkward circumstance. The Government should adopt an heroic course and make arrangements whereby all minerals become invested in the crown. The expediency or accessity It is a very smooth, sticky clay, which, how- between Stellarton and New Glasgow, the minerals,

Some forty years ago, a couple of miners, from one of the Pottery districts in Staffordshire, who located at Springhill, stumbled upon a seam of clay on the outskirts of the town, which they considered resembled closely the clay used in the famous English Pottery district, and suitable for crockeryware. To put this belief to practical test they built a small primitive plant for experimental purposes. The result was the production of various pleces of crock-The clay behaves like a stoneware clay, and its at their disposal, including the crudeness of the fusing point lies about cone 25.. It makes a good machinery, were deemed to be of very fair quality. After a time, owing to limited market, and more Connor, of the laboratory of the Mines Branch, plant, before attempts could be made to cater to outside and larger markets, the work was discontinued.

The writer is of opinion that the exploiters had no serious intention of going into the pottery business, but rather entered into the production of certain wares as byeplay or pastime. However that may be, the work done demonstrated that there are clays in Cumberland county that can be utilized in the production of, if not the finer, then, of the commoner and more generally used kinds of crockery-

By and by when there is the expected large increase to the population of the province and there-Scotia, and several possible uses suggest themities are further enlarged, there can be little doubt If mixed with some burned clay it could also be varieties of shales and clays which the province posthat more attention will be paid, to the numerous

for several years there has been in operation A. & W. Mackinlay,

Loose leaf supplies of all kinds made to order.

135 to 137 GRANVILLE STREET.

HALIFAX, N. S.



Synopsis of Coal Mines Regulations,

OAL mining rights of the Dominion, in Manitobs, 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 1, 3 e 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

segai and divisions or sections, and in unsurveyed territory, the tract applied for shall be staked out by the applicant himself. Each application must be accompanied by a fee of \$5 which will be refunded if the rights applied for are not available, but not other-wise. 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 coal mine, and pay the royalty thereon. If the ceal mining rights are not being operated, such returns should be furnished at least once a year.

The lease will include the ceal mining rights only, reschided by

Chap. 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.

"WORLD" Brass Valves.



DOUBLE TAPER BRONZE SEAT. Suitable for all purposes and pressures. Particularly adapted for High Pressures. Can be re-packed under full pressure,

T. MCAVITY & SONS.

ST. JOHN, N. B.

DEPARTMENT OF MINES.

Hon. Martin Burrell, Minister.

Mines Branch.

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