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NOVEMBER 12, 1919

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# MARITIME MINING RECORD

Vol. 22

Stellarton, N. S., November 12th., 1919

No 9

#### LABOR AND CAPITAL.

Dr. C. A. Eaton, a Canadian by birth, and well known as a New York clergyman, has, at the request of the London Times, written a long article on the relationship of Capital and Labor. Dr. Eaton has been called the Reconcilor of Differences, and his services were called into requisition by the U. S. government during the war. Exigencies of space preclude us giving more than a portion of the opinions on the coal problem:

#### COAL PRODUCTION PROBLEM.

that England will suffer this winter from lack of fuel. According to an English authority the average yearly output for a British miner is 226 tons, while for an American miner it is three times that amount. These of the miner or the mines, but what will become of law from working more than six hours a day is too England. An American contractor is erecting rolling delicately organized to wear trousers. He ought to mills in England. From the same blue prints he has be garbed in petticosts and have a nurse to stand belet contracts in Pittsburgh, Youngstown, Ohio, and in tween him and the rude realities of a workaday world. same article made in England for use in England than he pays for it in Youngstown.

cerned over these facts. The English working man is as good as the best. In mining and the steel industry he is not competing with men of his own breed, except in part; for a large proportion of the iron and mine workers of America are from central and southern Europe. Why should a Pole or a Slav in America mine more coal or produce more steel products than an Englishman in England? Is it a question of machinery or method, or is it a state of mind?

I would not venture an opinion upon matters at to get to work and stay at work until the danger is past

I shall follow with eager interest the proposal to. nationalize British mines. In America many of us used to believe the Government could do railway running and mining and some other things better than could private interests. We don't think so now. The war has cured us. The other day when the railwaymen, who are a very high type of workers demanded nationalization of the American railways, they were met by a storm of protest from all classes, workmen included. We are afraid of bureaucracy and red-tape and taxation to make up for losses due to the stupidity of political administration of public utilities. We are coming back to the good old British doctrine that the less interference from Government in industry the he less interference from covernment is self-government, rapidly when once the better. The best Government is self-government, normal mining begins.

One of the greatest delusions that ever darkened the mind of man is the theory that you can work the institutions of industry by means of a political machine.

Let us tell the truth to each other. The average Englishman or American has no more use for a 'proletarian dictatorship' than he has for the rule of a dangerous lunatic. And much of the backwash from this madness is alien to the best ideals of the Engils speaking working man as it is repugnant to his intelligence. If I were a workingman now as I was for many years of my life I should be deeply depressed by the desper-I have been greatly impressed by the many signs need and danger to reduce my life to the stature of a weakling. I should be ashamed to be put in the position of asking for a six hour day surrounded by an entanglement of legislative safeguards for fear that I figures raise the question not as to what will become linen by sweat. A man who must be protected by

A mineowner is simply a trustee and servant of And the workman the nation A mine worker is exactly the same. Evthere is receiving 30 per cent, higher wages than here, ery business is a social service, otherwise its profits are got by fraud. Every worker is a national servant, otherwise he has no right to demand wages from the nation for his work, A coal miner will risk his life without a moment's hesitation to rescue a drowning child from the river; but the same child may die of poenmonia this winter because the same miner for some inscrutable reason is permitted by his union to work only a few hours a day. This theory and this practice really have nothing to do with the needs, rights, or wrongs of the worker They are the exissue between miners in England and their employers, its source outside England, to destroy the so called but as a general policy for this time I can see only one capitalistic system by reducing hours and output to a minimum and increasing wages to a maximum. It the English-speaking peoples, through cowardice or inertia or ignorance permit this programme to develop they will richly deserve the ruin which will overtake

> A light bankhead with other necessary surface buildings, of small size, is doing the turn for the starting of Dom. No. 24. The "deeps" are getting off to a fair start, the coal showing 4 ft. 11 in. at the face. Work is being rushed on the concreting of the mouth of the slope before frost sets in. Under Manager loseley this new mine should be exploited rapidly when once the good roof is reached and

#### MARITIME MINING RECORD.

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#### R. DRUMMOND, PUBLISHER.

STELLARTON, N. S.

November 12, 1919.

#### OUR OIL SHALES-AND OTHER.

One looking for information as to the extent and "Well, scarcely. That would involve some expensible to secure this development. Who then will be diture and it has ever been the policy of all gov- morally responsible for the deaths and misery! ernments in the province to waste neither time nor Surely each member of the Privy Council that money in the exploitation of the baser metals, or created the "impass minerals, or in fact anything not likely to bring political grist to their mills. Exploitation of our Canada Sir Francis Hopwood, one of the Lords of minerals is left entirely to private individuals," the Admiralty, to investigate the very question of and, then, seeing the disappointed look on the en- oil fuels, the Government never notified the known quirer's face he may add: "The Mining Record has owners of the proven properties, nor their technical

fax are fearfully and wonderfully made. There is ing of the actual situation. no necessity to stay their hands from working or I have intentionally avoided speaking upon the ask, "What doest thou?" For the simple reason question of the possible recovery from the shale, that working and doing are two qualities wholly after the oil has been educed therefrom, of certain foreign to their constitution. The Ottawa Mines by-products. I believe, however, that the interests Department sent the ever welcome Mr. Faribault of Canada require that this Chamber and all Canada down on a certain mission to Nova Scotia and should be made aware that oil is not the only proalrugging its shoulders, gave him permission to duct that may be economically recovered from cerexamine a two foot seam of shale in C. B. Mr. F. tain of the Canadian oil yielding shales. Not perwas told there was "two" feet of shale in the shaft haps from all, but certainly from some. It is now but he didn't see it. He saw some loose shale at the known that from certain of the shales, there can be shaft head. The Mines Department sent Dr. Wright recovered nitrogen and potash, both important feralso to Nova Scotia. The Dr. admitted he came as a tilizer chemicals. Everyone interested in agricullearner, took a sample or two of weathered shale culture knows that up to now Canada has been deand sent it to Ottawa to be inspected by the heads pendent upon foreign sources for her supply of pethere, who can only give it a laboratory test, a thing tash. In other, but rarer cases, precious and rare that any prospector can obtain for himself. Let the metals in remunerative quantities, may be recover-Department at Ottawa determine to spend a little ed, and there is a possibility that in certain cases, it money in N. S. in practical work, that is, in getting may be possible to use the residue for the manufac-

other methods than laboratory. The Department at Ottawa having no pecuniary interest in shale development may be excused for beggaring itself on the province's behalf, but it is different with the Provincial Department of Mines. Really, the Department THE RECORD is devoted to the Mining-particularly of Mines at Halifax should awake from its slumbers. The development of our oil shales is of so great importance that we shall again refer to the debate which took place in the Senate a month or more ago, when Senator Domville spoke on his resolution requiring the Government to relieve all oil shale machinery, necessary to be imported, of payment of duty. In the following extract too much "stock" must not be taken of Senator Domville's opinion that "death and misery" may follow if our fuel supplies are not more earnestly looked into:-

Eastern Canada relies for its supply of fuel upon Nova Scotia, New Brunswick and the States. The shipments to the province of Quebec from Nova Scotia are away behind the normal pre-war standquality of the oil shales of the provinces of N. B. ard. The production in the States is also much less and N. S., might find a difficulty in being guided to than normal and this lessened production is being a source of information. Refer him to the Mines called upon to supply countries hitherto supplied Department at Ottawa, and he may be told to get a from Britain. Is it not evident that Eastern Canada copy of Dr. Ells' report, if he can, from outside is bound to suffer from the shortage of fuel which sources, as there are no spare copies left in Ottawa. neither supplies of peat nor wood can prevent, in-If he be referred to the Mines Department in Hali- deed can hardly ameliorate? Death is the certain fax, he may be answered after this fashion: "Shale, consequence following such conditions. The only shale, let me think. Oh, yes, shale, the Department source of fuel, the development of which could have spent nearly forty dollars in securing samples of supplemented the fuel supply of Eastern Canada, Special nearly lorly dollars in securing samples of suppresented the rider supply of Eastern Canada, Nova Scotia shale, and we applied a match to it and it smelled of oil." "Has it been analysed?" "An- ces. Yet for reasons, best known to themselves, but alysed, what is that?" "Can you tell the yield of which they have not thought wise to make public, oil per ton or the pounds of sulphate of ammonia?" the government has persisted in making it impos-

Even when the British Government sent out to had a lot to say of shales, possibly you might get a advisers, but kept the honourable Lord of the Admiralty strictly seeluded within a little coterie of miralty strictly secluded within a little coterie of The Departments of Mines in Ottawa and in Hali- their own officials, who, indeed, knew next to noth-

shale not exposed to the weather and testing it by ture of certain qualities of cement. All these sever-

al recoveries require machinery upon which large stoking. It is superseding to a large extent the use

he could not congratulate the House upon the tre-mendous interest which they had manifested in the —that there are large beds of shale in Nova Scotia

world, and have proved to be at least as good as, of the Dominion of Canada. those of Scotland. Therefore, we have in our own country, in the province of New Brunswick, great have always heard that it is very valuable and will

in Mexico, a country without a settled Govern comparatively barren province. ment, where they have to take enourmous chances. Very recently the Cowdrey interests there were taken over by the Shell Company, I think it is, clusion that the seeming apathy of the N. S. De-

Roach spoke truly when he confessed (gnorance as Scotin shales. to the fact that there were shales in N. S., that is so Introductory to the several analyses, our Scottish

led for ships. I am not so very familiar with the average of the whole thickness of the seam. milization of mineral oil in other branches—for The shales from the upper coal measures give a achinery, for fertilizers, or for other uses; but I crude oil of high specific gravity. how that a very great advance has been made in The AIRDRIE shale, from the upper part of the s propulsion of ships by the use of oil. Not only Kiltongue coal seam, Springwell colliery, gives 33 pies, on account of its cleanness, and also because MONKLAND shale, 32 gals. sp. gr. 960, and Sulthe reduction in the number of men employed in phate of Ammonia 6.3 pounds.

import duties are collected by the Government." of coal on routes where oil can be obtained at both

This, like all new enterprises, is surrounded by in having that article mined, and tested as to its a certain amount of risk, unless the request of my oil-bearing capacity by the Imperial Oil Company, hon friend is granted, they will have to pay 421/2 which has established extensive works at Halifax per cent of their capital, practically, for the privi- and employs now about 10,000 men,, and also had lege of risking the other 571/2 per cent. None of established a town with all the concomitants of very this machinery is made in Canada, as there is no extensive works. They import their crude oil from such thing in Canada at the present time as the ex- Mexico and from the United States. I think that, This is not a new Lusmess, however, Scotland has afford, the capacity and quality of the oil shales been extracting oil from shale for nearly half a in Nova Scotia could be very cheaply tested, and, century, and has been doing it very successfully if they are valuable as oil producers, of which I and very profitably. These New Brunswick shales have no doubt, they would add extensively to the have been analyzed by the best analysts in the revenues both of the province of Nova Scotia and

potential wealth in these shales, and have the be a great resource of that province. I cheerfully means of supplying to the Imperial Government a concur with my honourable friend in asking the very necessary fuel which they are obliged to obtain Government that they give every facility and every Enormous amounts of British money are invested very valuable product, for otherwise it will be a

They have also taken oil from Borneo, from Rou- partment of Mines was not wholly due to penuriousmania, and from many other parts of the world, as ness but from the fact that the provincial exchequer The question of the development of these oil pecunious prosecuting attorneys, needy judges to shales in Canada is a very important one, and I act as coroners at inquests into mining fatalities, think the honourable gentleman is to be congratu- plaintive rudimentary roadmakers, the Record delated whether he is acting from a personal motive or cided to obtain information, as to Scottish shales, in not. If this House were properly seized of all the fuller detail than had been diffused by either the dreumstances, I think it would realize the necessity Federal or Provincial Departments of Mines. And then our own Senator Roach had something of the big Scottish Oil shale plants, that at Broxto say, and though there was not much in what he burn, near Edinburgh, and there made a friend. To said it should bring the blush to all the other N. S. our inquiries the friend has furnished the following Senators who remained silent, especially the Sena- details which will be useful for comparison, when loss from the mining counties. The pity is that Mr. real and practical tests shall be made of our Nova

for as personal contact and acquaintance with the correspondent says: "Owing to the variable character of the shales it is difficult to get a true average I desire to add a word or two to what has been blush a bore hole suggests a perfect method of obaid in regard to the duty of the Government to taining it, and yet the material got from bores usist in any measure or enterprise which will tend driven within a foot of each other sometimes vary a enlarge the resources of the various provinces of by from two to three gallons or even more in the lusada. We all agree to that proposition. The oil yield of oil. For obtaining the specific gravity, also, uestion is now upon a new basis with regard to it is not easy to secure a piece representing the

a ships of the Royal Navy is oil superseding coal, gallons of crude oil sp. gr. 957, setting point 65 at also in merchant ships, on account of its cheap-degrees; Sulphate of Ammonia six pounds, (lab.

Shale from WESTFIELD, Rutherglen, 24½ gals., atory tests have yielded 78 lbs. of Ammonia to the sp. gr. 361, Sulphate of Ammonia, 10 lbs. The lation. A weather beaten shale yielded on analyses boratory tube experiments give an oil with specific nigh 40 lbs, of Ammonia with an oil yield of over gravity higher than the present retort, and corresponding roughly to that of the old vertical retort.

RAEBURN shale. In the Boxburn field in a basin to the east of Uphall. This seam has a thickness of 4 feet and yields 541/2 gals. per tons, specific gravity .887, Sulphate of Ammonia 7 lbs. (lab. tube.)

inches 11 galls., Sulphate of Ammonia, 9 lbs.

FELLS SHALE. This shale yields from 26 to 40 gals. of crude oil and 20 to 35 lbs. of Sulphate of Ammonia per ton, with retort of Young and Bulby.

gives 22.32 gals, per ton. The nitrogen content belong to the landlords, why did the government

being 0.720 per unit.

shale yields from 24 to 26 gals. per ton. In one ment to a very large part of the population? In place it is as low as 20 gals. at another as high as 33 gals. The Sulphate of Ammonia runs from 24 to 36 lbs. and in some cases reaches 41 lbs

The lower big shale at Oakbank, 6 feet thick,

yields 29.34 gals, to the ton.

The CURLY seam at Broxburn, about 5 feet thick lies above the Broxburn seam. The following sections may be taken as guides to the yields-Section, say, No. 1-Top, 2 ft. b, 18.57 galls. oil, 19.17

4.10, 23.65 gals. oil, 18.21 lbs. Alamonia, (lab. tube.) government spent a little less than forty dollars in

Ammonia, (lab. tube.) Bottom-1.16, 20.12 gals. broke and worn out with their huge endeavor. oil, 14.91 lbs. Ammonia, (lab. tube.) Average, 4.6, 26.21 gals. oil, 16.17 lbs. Ammonia, (lab. tube.

Section No. 3, Top-2.7, 32.67 gals. oil, 19.41 lbs. Ammonia, (lab. tube.) Bottom-2.5, 31.26 gals. oil. 19.73 lbs. Ammonia, (lab. tube.) Average-5.0, 32.00 gals. oil, 19.56 lbs. Ammonia, (lab. tube.)

erude oil and 40 lbs. Sulphate of Ammonia."

those obtained at the plants, and not merely labora- a borgain is made between the employees, through tory analyses. We wish our correspondent had their unions, and employers there should be means given the yields as obtained by laboratory test and of compelling the urions to implement the agreethe actual retort yield Nova Scotia shales have ment, as readily as the employers can be forced to never, so far as we are aware, had a retort test. Our do so. The Record is pleased to believe that its never, so far as we are aware more real practical knowledge of oil bearing coals and opinion in this regard is gradually obtaining supplied a post not extend much further than the fact port in certain influential quarters. The following shales does not extend much further than the fact port in certain influential quarters. The following that when stellarite was exported, sixty years or so extracts from a series of articles, bearing on the ago, the yield of oil was greater than from any responsibility of labor, we quote in support of this other coal or shale on the continent. So far as our belief :knowledge goes there never was a test made to discover whether the stellarite contained any sulphate ganized employees "get together," it frequently of Ammonia. The presumption is that it does not, happens that arrangements entered into are set owing to its wonderful oil content.

seams as high as thirty feet and deposits-for it what shall be the working conditions, wage scale, would be hazardous to say they were seams of fifty etc., for a specified period of time. These contracts feet, and even upwards. The laboratory tests for oil are entered into as being mutually advantageous. higher yield from the source of testing, show that time and again in practice, they operate solely to

thirty three.

It strikes one as peculiar that the Nova Scotia Mines Department has never taken a lively interest, or in fact any interest, in determining the value of our shales. It has not, as yet, entered the heads of the Department that their interest might extend be-At Ne biggen, near Broxburn, about 4 feet of this youd the readiness to accept thirty dollars from any seam contains 28 gallons, and the overlying eleven one desirous of securing a right of search. The defence of the Department may be that up till within a short period the shales belonged to the proprietors of the land. But should not the government take an active hand in attempts to develop the re-OAKBANK new shale yields 35.59 gals. of crude sources of the province? 'What are they there oil at Oakbank and Oakbank big shale, 4 feet thick, for,'' but for that very purpose? If the shale did not spur them up? What would be the good of the BROXBURN GREY SHALE. At Broxburn the Agricultural College did not mining give employwhat position were the farmers of this province before the mining of coal assumed large proportions? The best assistance the farmers ever had was that given them by the mining industry. Without mining the province would be in a pitiable condition. The government should realize that the country cannot prosper, as it should, without the expansion of the mining industry, for Nova Scotia is not a farming country, as are the provinces to the West. The govbles. Ammonia (lab tube). Bottom—2.2, 28.56 gals., ernment may say: "We have taken an interest in oil, 17.04 lbs. Ammonia, (lab. tube). Average—the shale business." So they did. As stated the Section No. 2-Top, 2.8, 30.04 gals. oil, 17.04 lbs. obtaining samples, and then they stopped dead

#### LABOR'S RESPONSIBILITY

The Mining Record has for long maintained, and The Dunnet seam at Broxburn yields 18 to 20 gals. given frequent expression to the opinion, that Labor Unions should be forced to become incorporated by The probability is that the yields given of oil are statutes as in the case of industrial business. When

Under this system by which employers and orforth in contractual form, the employer, whether a It will be noticed that several of the Scottish oil corporation or an individual, on one side, and the seams are of small height. In Nova Scotia there are trades union on the other. Such contracts define in our shales, even after making allowance for the Theoretically they are so; actually, as demonstrated our shales are equal to those of Scotland, if not the advantage of the employees concerned. The superior,-which some maintain they are. Labor- reason for this is that the trades union, while ready

enough to enter into a contract ensuring to its mem-graceful expression of that intention. If, on the binding upon them, they do not bind the employees ple, against whom the movement is aimed." who are members of the contracting unions. The company or individual, in accordance with the pledge given, provides employment under the conditions set down in the contract, but there is no means, and the contracts themselves, as things are now, cannot provide any means, whereby the em- Corporation visited Sydney lately and was of course unionists, and they represent benefits of one sort or man spoke, in part, as follows:another which the organized employees have secured. Yet, while the employer is bound to live up tant undertaking. to an agreement ,the advantages of which are all to the other contracting party, the employee can take bor, where the Dominion Coal Company has land into in his behalf by the union of which he is a Company's submarine areas. High grade metallurmember. The employer is thus deprived of the only gical coal for the new plate mill is the objective. possible benefit which a contract might otherwise There will, of course, be no diminution of the coal give him, the guarantee of adequate labor without output on the South side of the harbor; that, too, interruption for the period specified in the contract, will be increased. He cannot, as already stated, hold the individual worker, nor has he any satisfactory recourse against man, "that the sulphur content in the coal supthe contracting union which is not a corporate body, plied to the Steel Plant was the subject of lengthy and, in any event, has its head-quarters, in most litigation before the formation of the Dominion cases, in a foreign country. What is wanted is a Steel Corporation, some years ago. The impurity system which will make these contracts mutually exists to a more or less extent in all Nova Scotia beneficial by giving to the employer, under his con-coals. In the case of the areas which our Company tract with labor, protection equal to that which la-intends to open up the contents of sulphur is less bor itself enjoys. Such an arrangement would work than one per cent. no hardship upon organized labor if organized labor is deposed to respect its own undertakings and fulfil new mine is the imminence of the operations of the

ganized labor are binding upon the employers, but in its preparation." not upon the individual employees affected, constitutes the principal obstacle to the attainment of Superintendent of the Scotia works at Sydney the object vaguely referred to as "better relations." Mines to his feet, and to the Sydney Post, on urgent Better relations are impossible so long as contracts request, T. J. delivered himself not in heat but in affecting employment cannot be enforced against "coal" blood as follows:one of the parties to such contracts. When that obstacle is removed, one of the most aggravating pha- Dominion Coal Company has been threatened so

The public in this country, as in the United States that there is no low sulphur coal in that vicinity. and Great Eritain, are wakening to the fact that the aims of organized labor constitute a serious menace they state that they require a better grade of coal ugly name. If the majority intend to submit to this facturing of rails and munitions.

bers the maintenance of conditions considered by other hand, they propose to protect themselves them at the time to be desirable, does not assume against the predatory aggression of an organized adequate responsibility for the non-observance of few, they need not wait for further provocation. the contract by its members, who, in turn, have no Fortunately, there are evidences that the real signi-iaw to fear as individuals. In other words, while ficance of the organized labor movement is being these contracts are respected by the employers as more clearly understood by the majority of the peo-

#### THAT BONAR POINT COLLIERY

ployer can compel the employees, as individuals, to interviewed regarding future operations of the fulfil the conditions to which, as a union, they have company. The Record is more immediately conagreed. In the majority of cases such contracts are cerned as to what he said in reference to coal mining the result of demands made by employees as trades operations. To the Glace Bay Gazette Pres. Work-

"The time has now come to announce an impor-

it or leave it at times as he sees fit. The civil law areas, has been selected as the starting point for does not compel him to fulfil the contract entered new coal mining operations, to be carried into the

them. The law should be made to apply in equal new plate mill. The quality of steel required in the degree to either side in one of these argreements. manufacture of that mill's product is of high grade, The fact that the contracts entered into by or- and only the finest metallurgical coal should be used

ses of the labor problem will have disappeared. often that we are not disturbed as much by it as was Yet this, one of the foremost difficulties with which intended we should be. I do not believe the Domiindustry has to contend, finds no place in the last of nion Coal Company are serious when they state subjects set down by the Minister of Labor and his they are about to open a coal mine in this district. associate for discussion by the Industrial Confer- I am sure they are not serious when they state that their reason for opening at Bonar's Head is to obtain a coal of low sulphur contents because I know

and must be resisted if industry, ordered society and than can be found in the Glace Bay and Waterford constitutional institutions are to continue. A small districts for the manufacture of steel to make ship's minority of the people of Canada are endeavoring to plates, and I am positively sure they do not require impose conditions upon the majority by means a better quality of steel for ships' plates than they which, in the ordinary relations of society, go by an do for the stock they have been using for the manumovement, this is the time most appropriate for a "If it had been stated that it required better

cloth to make an ordinary suit of clothes than it does have published the comment by one who withholds to make an evening suit the public would see the his name, as he is a "suspect," while a brother. We joke; but it is taking advantage of the general pub- omit the latter part of the reply as we do not think lie in locence of the steel business to make a state- that any reference to the invasion of capital-of a ment equally absurd, regarding the material re-certain kind-should enter into the controversy, quired for the manufacture of ships' plates. It "The interview with T. J. Brown appearing in the does not require a specialist in clothing material to morning issue of a local paper is perhaps the most see the absurdity of the first statement, but it does require a certain knowledge of the steel industry to detect the absolute absurdity of the second

"One would therefore reason that if they are not sound and serious in the two reasons they give made by Mr. Brown. As the public has been receiv for opening this mine they are not serious in the

matter at all.

'It is said that an application is to be made or has been made to the mines department of the Nova Scotia Government by the Dominion Coal Company for permission to sink into and enter upon the land leases of the Scotia Company in order to reach their submarine leases in the vicinity of Bonar's Head. We are aware that the Dominion Company's engineers have had under consideration for some time the location of a site for a coal mine at that place and judging from previous plans exhibited by them. I have no doubt the location for a site will be the one best suited to hamper the future opera-

tions of the Scotia Company. "The average height of coal in the old Sydney seam in the district known as Bonar's Head varies The cost of mining coal from a seam of this height would be excessive. The coal must be transported from the mine to the Canadian Government Railway at or near Florence, thence by rail to Sydney and from there by their own railway to the coke ovens. the Dominion Company of the coal it might secure The present tonnage rate from Florence to Sydney is one dollar per ton. Now with coal at their door in the Waterford, Glace Bay and Port Morien districts averaging from six to eight feet in thickness of practically unlimited quantity and certainly of superior quality, one can be excused if one doubts that the gentlemen who control the affairs of the Dominion Coal Company have the slightest notion it into coke at Sydney will furnish hundreds of men of carrying out the fantastic forecasts appearing in the Press.

Mr. Brown closed the interview by saying there was no use disguising the fact that the Scotia Company is handicapped by the uncortunate fact that tically the same as the present haul from Morien, their inside and outside leases are divided by inter- his sadness would be profound, and, a chronic case vening leases of the Dominion Coal Company, and it is equally useless to disguise the further fact that up to the present time the Dominion Coal Company have not shown any burning desire to better the Scotia Company s situation in the matter; but he could not believe that their attitude in the matter would carry them to the extent of making large expenditures in a new field of operations, when they have at their disposal in the Grace Bay, Morien and Waterford basins, enormous resources of unworked coar which can be mined very much cheaper and is much better suited for their purposes."

flesh and blood of the Dominion Egal Co's, friends to stand and three several champions asked that T. J. stand up to them. We are content to give one of the retorts as three again t one is not the code or fighting rules we go by. We would like much to

in connection with the so-called submarine controversy. An analysis of the interview shows that it contains the matter necessary to refute any claims ing coal areas, in homeopathic and heroic doses. during the past year it would appear that the time is opportunie for a little more frankness on the part of the press and contributors.

Mr. Brown evidently has a motive in giving the public an interview such as this. Let me ask you to examine the matter of it earefully to see if he has been entirely frank. He howls loudly about the attempt of the Dominion Company to seek an entrance to its own coal areas on the North side. He tries to create the impression that this will embarrass the Scotia Company in its operations. At the same time he states the coal in the area for which they are making an application is too thin to operate, and even if it could be recovered, it would not

be suitable for steel making.

What is there to embarrass the Scotia Company from one foot eight inches to four feet six inches, in the operations of any company in an area that contains no commercial coal. Is Mr. Brown quite frank? Way the long drawn out howl? Why the

'Mr. Chai men 1 protest," attitude?

Again f. J. is greatly concerned about the cost to from this low grade thin seam on the North Side. This is the first glimmer of public sympathy the Dominion Company has received from its friendly neighbor for a long time. The long rail haul makes T. J. shake his head and droop in sadness. He sees good North side coal coming to Sydney instead of going over the Scotia pier. The fact that turning with employment, (and incidentally T. J. with benzol for his numerous fishing trips) hardly compensates for its disappearance in a southerly direction. I fear if T. J. realized that the "long haul" is pracof melancholia developed.

Now, Mr. Brown, don't you think it would be a good idea if you left the question of quality of coal, cost of mining and transportation, and all other questions of this kind to the people who are going to put their money into the venture? These matters were evidently carefully investigated years

ago, 11

Oh, by the way, the signature to this letter is "Philosopher." We would like to meet the chap as it is hard to find a man who is a "philosopher" takes interest in coal. Of course we all know Of course the interview was too much for the that the N. S. coal trade has a genuine humorist, but to have a philosopher as well, "cows a'. Seriously our advice to all contestants is: "Gree brothers, gree; there's nae so many 'o ye." We lay down our pen, happy in the hope that some one will say of us-'Blessed are the peacemakers.'

## · Rubs by Rambler. -

Scriptural texts have ramified interpretations, and taking advantage of the fact, I would through culation, and might be a power in the land were its go unemployed, except by his own wish or rash act. balanced. A contemporary said lately, speaking of the attitude of the Herald, not possibly so much toward labor as to the featuring of cer ain labor eaders, and their vaporings, that if the niners took drastie" action on the Let Nov. or later came out on strike the Herald would be held in a large measure responsible. The statement cannot be called extreme. Rambler has a fearfully large mantle of mercy, but big as it is, it is not big enough to cover the Herald's shortcomings, and I am forced to endorse what a contemporary has said, and am sorry this is forced upon me, for I have known the Herald properitor for over two score years. The very worst service a newspaper can do the workers is to so "feature" and thereby inflate rubber headed leaders, that they become obsessed with their towering importance in the community. And when the featuring does not come at short intervals, then these leaders give utterance to further excrescences of speech so that the "featuring" may be continued. Why, bless the Herald's innocent heart, does he not recognise that wild words are uttered solely that the Herald may take hold of them and do big featuring in big headlines and so keep them, the leaders, in the public gaze. I do not want the Herald's good to be evil spoken of, therefore it is that I ask it to shun evil ways and when it writes on labor questions to write sensibly, as in the following extracts from its issue of 5th inst. Then truly the Herald would be helping honest labor :-

We are not disposed to believe that there can be much real ground for the alarm new said to be felt at Ottawa. Nova Scotian miners have usually shown themselves cantious as well as intelligent men. It has been their disposition to look before they leap. There is little likelihood of their doing otherwise at present. It is only a few months since some of their had a fair taste of unemployment and consequent hard times. They eried loudly at that time for public assistance. They wanted the government to purchase and use Nova Scotia coal, regardless of price. They even insisted that this should be done; and ventured to threaten the premier with serious say ventured to income the premier with services victory number twenty-rour, and the common peoplifical consequences if he refused to comply with ple contentedly call "the Lake" colliery. These their wishes. They could see no reason why con- are used in lighting the surface and in the new deeps tracts for American coal should not be east aside, just started. and purchases made in Cape Breton for the purpose of giving employment to miners there, at the ex-

shortage of employment and reduction of wages. Now is their last chance of laying by something for the economic "rainy day," so near at hand. The American strike cannot but afford them a special opportunity. With so many mines wholly or partially shut down in the United States, there will be an unprecedented demand for coal, here and elsethis one, "Let not your good be evil spoken of," de- certain to be a market for every ounce of coal which liver a short lecture. The Herald has a large circan be produced in Nova Scotia; and no miner need

It would be worse than a rash act for them, or any of them, to attempt to dictate where or to whom the coal which they All that concerns themselves, and good sold. produce may them owners and the government will attend to the rest. wages. The coal If there is sufficient coal left to supply the needs of American vessels calling here after provision has been made for British requirements, it will undoubtedly be sold to them. The American government, in spite of its own difficulties, is most generously providing for the supply of Canada's needs. It has undertaken that the Dominion's supply shall not be more than proportionately curtailed. It would be churlish, it would be grossly dishonest, were we to refuse or fail to accord them similar treatment.

Nova Scotia miners may therefore rest assured that nothing of the kind will be done or would be tolerated by the Canadian public, whatever they may think, say, or attempt to do. It will be better to have a clear understanding on this point at once. A miners' strike in Nova Scotia, at this time, or in the near future, would be a very deplorable thing, deplorable for the public, and still more deplorable for the miners and their families. However deplorable and disastrous it may be, it will have to be faced if necessary, and wil be faced, just as it is being faced in the United States.

The issue between a very small section of the people-the coal miners-and the whole people will have to be definitely settled some time. It might as well be settled now. Those who force it to an early conclusion by unfair means, are likely to have little cause for self congratulation.

### Hround the Collieries.

A railway one and a quarter mile in length was built by construction Superintendent Thomson from Caledonia Mine sidings to Dom. 24 in three weeks.

Transmission lines have been built to Dominion

Men who were talking in that way, and in such a done at Caledonia. In addition to what has already Development work by the Dom. Coal. Co is not agen who were taking in that way, and in about a cone at Calaborn. In addition to what has already lone so lately, would scarcely be in a position to been stated a large trail rope engine is being installconfined by any means to new mines. Much is being one so lately, when all the coal they can produce will be in ed in No. 13, east main level, for handling the full ready demand at good prices, providing abundant output of this level when its boundary line, some ready demand at good prices, providing administration output of this level when its boundary line, some work at high wages for them. Besides they must 7,500 feet from the entrance is reached. Lately the know that general hard times are clearly in sight, haulage system was extended 2000 feet. The output when there must, and will be, almost universal of this one level is 400 tons daily.

### AROUND THE COLLIERIES

The Dominion Coal Co. of late has been shipping every available pound of coal it could spare to Holland under contracts entered into some time ago.

The first output recorded by the newly re-opened Victoria Mines to the General Office at Glace Bay. was 75 tons. This was made on Nov. 4th. Coal was produced a few weeks previously but the output was mieroscopie.

Dominion No. 1 has undergone needed changes, and conditions are improved. The air lines have been enlarged, by replacing small pipe lines with large pipes and other improvements. The air pressure at the faces is now sufficient for all coal cutting air machines.

To change over from horse to mechanical haulage all the level roads of Caledonia Mine, Dom. No. 4, have been relaid with 30 lb. rails right into the inside headways. Large landings 250 feet long have been made to handle long trips, when the new haulage has been started.

All the levels of Dom. No. 4 are worked double shift with radial coal cutting machines. This is to hasten development work in the submarine territory. Where pillars cannot be extracted, much more territory has to be opened up to obtain an output equal to that from land areas.

The lower levels of Dom. No. 1 are to be extended and pushed in for upwards of 2000 feet. This is very encouraging news to the men of this, the foremost, or if not that in output the best in other respects, of all the Dominion collieries. This extension means a larger lease of life and activity.

The outputs of the Dominion Coal Co. for October show an encouraging increase. It is to be hoped President Workman's expectations of increased outputs, for the future, will be realized, even a fifty per cent less output.

made on No. 10 west landing of east side of Dom. panies. The name of the latest is the Lanark En-No. 4 colliery, for the purpose of the more efficient gineering Co. This ecopany, it is said, has a conand economical handling of the mine water. The tract of driving four slopes on the McBean seam at roof for the new pump house is being blasted down. Thorburn. The total length of the slopes will be When completed three more electric pumps will be 3300 odd feet. Cross cuts between the several installed. The capacity of the pumps will be 2000 slopes enable the new company to hoist a rather regallons per minute which is 500 gals, more than the markable tonnage daily, from purely development mine is presently making. From this station the work. The tons hoisted daily are over the hundred water will be pumped through a 12 inch bore hole, mark. Messrs. Mitchell and McCulloch of New while the electric cable for power will run through Glasgow, are the active partners in the enterprise. a 6 inch hole. This change will eliminate three air It is to be hoped that they may receive sufficient repumps at the bottom of the west deep, used for ward for their enterprise. So far a ready market keeping old Dom. No. 3 colliery free from water. for the coal is found in Halifax.

Is it not about time "jealousy" had consumed the Sandra of a majority of the daily provincial papers ?

The main haulage road of Dom. No. 4 Colliery, Caledonia, has been extended 1,500 feet and double tracked. The rails on the full side are 60 lbs. and those on the empty boxes' side 30 lbs. rails. The roof of this roadway is supported by 60 and 80 lb. steel rails and special timber.

The prevalent impression is that coal will be a scarce commodity for a time, and that there will be no diminution in the cost to consumers, if there is not an increase. The collieries are working to their capacity, so some newspapers say, but that is not the opinion of the Mining Record, unless we are permitted to make qualification. In the summer time there was complaining as to idle days at the collieries. At present there are no idle days, and the complainings are on the side of the operators of, what may be termed, a "ca canny" policy on the part of the operatives. The outputs are not what they should be. The output of the Dominion Coal Co's. collieries has reached 12,000 tons on a day, and on another day it fell to less than half that quantity. Why? Oh ask those who, one paper soberly and another sarcastically dubs "the big '. Half of the men took an off day and the big three made not even a little remonstrance.

The Sydney Post says that the Dominion Coal Co. has made application to the Dept. of Immigration for liberty to import 400 shooters and loaders, in order to increase production. No such men, the Post declares, can be obtained in Canada. "The Mines Act explicitly states that only certificated men may be employed as shooters and loaders." Is not the Post in error as regards loaders? As a rule loaders are not held to be "skilled" workmen, and we have not heard of certificated loaders though shot firers require to be holders of certificates. He though the outputs for the first days of November is doubtful, too, if "shooters" could be given emwere not records. Indeed the mines celebated the playment as such unless by special dispensation of 1st of Nov., the day of the U. S. miners strike, by the Legislature, and then only if they could stand an examination in English.

A large underground pumping station is being Pictou County has an addition to its coal com-

### Hround the Collieries

faces, the main air lines are kept close up, and no is kept as close as possible to development work, and thus facilitate good haulage and desirable output.

often reproved, the Gazette shift persuss in thing big letters when it misspells "Stirling", Sterling. Is the Gazette aware that it is withholding from is all, but with the "i" it refers to a man, with the you will arrange to come out and see us and go "e" it applies to exchange. The friends of Cape Breton's Mark Twain call him Charley O'Dell. Just try to take away the first "1" and substitute an "i", making it O'Deil, and see what a cleaning up of the

when no miner would set a fir prop, especially if it paration for the great wrong perpetrated on this had to be placed in the lower part of the pillar—or once again to be famous coal seam.

The Record regrets to say that negotiations relating to the taking over the Inverness collieries are not proceeding satisfactorily. It is claimed that the cost of production, owing to the much bad water made, and the peculiarities in the lay off of the mine, make it hard to close a bargain. Perhaps those who are in the habit of shouting for government operation of coal mines, will bombard the other Industrial Corporations. BLANK BOOKS ruled Commissioner of Mines and ask what the govern- to pattern and made in any S:yle of BINDING. for the steady continuation of operations at Inverness. What the Record suggests is that the holders of the St. Rose, the Inverness and the Mabou areas join forces, and dispose of this large field to men who are not afraid to risk a million or two of dol-

Mr. Cadwallader Evans, formerly General Manager of the Acadia Coal Co., is now General Manager of the International Salt Co., of New York. This company has very extensive works. Mr. Evans re-To give a good supply of fresh air at the working ter is more centrally located as regards the commoved lately from Rochester to Ithaea, as the latline of small pipe causing much loss by friction, is tral New York state. In extending an invitation to allowed in Caledonia Mine. The same is true, in the editor of the Mining Record to visit the works

We have a number of very interesting operations near Ithaca at which we manufacture all grades of When seeming ignorance is undiluted stubborn a sait bed some 1600 ft. beneath the surface. The ess should it be called a "shame." If so, then one salt, brought up in the form of brine, is recovered by has an interpretation of what is meant when it is evaporation in huge multiple effect vacuum pans. has an interpretation of what is meant when it is evaporation in huge multiple effect vacuum pans, said of a person. "He glories in his shame." Though At Retsof, N. Y., and Detroit, Mich., we have two often reproved, the Gazette still persists in using very interesting mines with shafts about 1000 ft. deep, where we obtain the salt in the dry mineral the dead what is his due? Oh! some may say, it is terested in the operations at these mines and hope only the change from an "i" to an "e". True, that that if you make a trip next Summer to the States

The once familiar and yet capriciously elusive Gazette reporters there will be. There would inwhich rarely induges in sensational head linesonce again bobbed up. Says the Post. "Mullins" has, on the authority of the Sydney Post once again bobbed up. Says the Post: "At present The air courses of Dom. No. 4 are being freshly gaged cleaning up around the outcrop of the Mulcleaned and re-timbered with steel rails and special lin's seam, midway between the old Victoria Mine cleaned and re-timbered with steel rais and special this scall, indiway between the old victoria Mine timber, special timber means good spruce. Manager and Low Point Church, and a distance of a mile Casey, with the other officials of the mine had for from the shore." Mr. O'Dell, the company's well Casey, with the other officials of the mine had for from the shore. Etc. Open, the company's well years been experimenting with the different kinds known C. E., has for years been endeavouring to of pit timber and have found spruce to be by far make acquaintance with this seam. Many times the better kind of the soft woods for pit purposes, has he called at its alleged residence, but never The table showing the results of tests made by the one found the seam at home, and though he con-The table snowing the results or tests made by the controlled the seam at nome, and though he con-Halifax Technical College some years ago, show sistently left his card, the seam never once repaid very little difference between spruce and fir, when a visit. Now that the residence of the seam is given very little difference between spruce and nr, when a constant the residence of the seam is given the breaking strain was applied. But besides a in detail, it is Mr. O'Dell's duty to call on it once the oreaking strain was appued. Due besides a contract of the more and make handsome apologies for having conbreaking strain there is the test of duration, or the length of life in a coal mine, when subjected to verted the Mining Record to the belief that one man length of life in a coal mine, when subjected to verted the mining record to the belief that one man weight and the mine atmosphere. In a moist mine saw the seam once and made repeated attempts to atmosphere, spruce gives the best results. The see it again, and ignominously failed. The Record writer remembers, in the early days of Springhill, demands of Mr. O'Dell that he make immediate re-

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HAPTER XXVII. The Advent of Dominion Steel.

HAP, XXVIII. The Province's Fortunate Escape. SAP. XXIX. An Offer Fortunately Unaccepted. HAPTER XXX. Iren Ore Mining.

EAPTER XXXI. The First Mine Inspector. RAPTER XXXII. The Wonderful Island.

EAPTER XXXIII In the Early Days. EAPTER XXXIV. Early Coal Mining in N. S. IAP, XXXV. Romance in Prospecting and Findings EAPTER XXXVI. Submarine Mining.

EAPTERS XXXVII to XLVII, Pages 313 to 368 treat respectively on: By Products of Coal-Vast this well written book adds to that obligation. increase in Mineral Wealth—Quality of N. Scotia Coal—Mine Explosions and Fires—Government

NOTICES OF THE BOOK :

Favorable, indeed flattering notices are being received of the book issued by the editor of the Mining Record. That youthful modesty which is, as many know, a characteristic of the author, forbids a rehearsal of many of the nice things said. At the same time, that arrogance, also characteristic of youth, impels him not to hide them all in a napkin. Here is a little coincidence. With the same mail came two notices and both from McInnes's, one a former District Superintendent of the Dominion Coal Coy., and now a wholesale coal merchant in Montreal, the other from a highly respected citizen of Port Morien:

"While in Cape Breton two weeks ago I got a copy of your new book. It is very interestingbrings back the old days. The coming generations will find it an accurate story of the periods just passed, when Nova Scotia came into her own as a coal producer and as a pillar in our industrial development."—Mr. A. McInnes.

And this from Dauiel McInnes: "I congratulate HAPTER XXIV. The Four Great Epochs in the you on your authorship—the right man in the right place. No other man could write such a history without the knowledge you possess.

And these:

R. McDougald, Westville: . . . All that comes from your pen is always to the point, and within the limits of human knowledge, accurate. I an very glad that you undertook to conserve the acquisitions of a life time of special study and observation in a book, It will no doubt prove helpful to many a Canadian mining student.

John Moffatt, Dominion, C. B.: I have read your book and am convinced that to the great work accomplished by you in the sphere of labor, in the past, you have added another service which will endure for many years, and be often quoted from. The Province of Nova Scotia is indebted to you in many ways, and

Assistance to Mining-Technical College, Mining The book made a hit. It has proved itself a suc-Schools-Coal Companies of Nova Scotis-New cess, I have heard not a few complimentary re-Seams, Stellarton—Nova Scotia Coal Sales, 1811- marks, both regarding the book and the author. 1917 - Staff of Mines Department and Some Pro- hope the 2nd and the 3rd editions will be called for before long, what taraway out all opens amounts its many and



### 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 applicant himself.

appined for main to estaked out by the applicant liminshi.

Each application must be accompanied by a fee of \$6 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 sworm returns accounting for the full quantity of merchantable coal muses and pay the royality thereon. If the coal unings 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 Chap. 27 of 4.5 George V. as ented to 12th June, 1914.

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

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Deputy Minister of the Interior.

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#### Mines Branch.

Recent Publications:

Summary Report of the Mines Branch for the Summary Report.

Calendar Year 1917.

2 The Coal Fields and Coal Industry of Eastern Canada, by Francis W. Gray.

3 The Thin Coals of Eastern Canada, by J. F. K. Brown.

4 Annual Mineral Production Reports, by J. Mc-Leish, B. A.

5 Analyses of Canadian Fuels, Parts 1 to V, by E. Stausfield, M. Sc., and J. H. H. Nicolls, M. Sc.

The Mines Branch maintains the following laboratories in which investigations are made with a view to assisting in the developing of the general mining inustries of Canada:—Fuel Testing Laboratory, Ore-Iressing Laboratory, Chemical Laboratory, Ceramic Laboratory, Structural Materials Laboratory.

Application for reports and particulars relative to having investigations made in the several laboratories should be addressed to The Director, Mines Branch, Department of Mines, Ottawa. R. G. McConnell, Deputy Minister.

#### Geological Survey.

Recent Publications:

ummary Report. The annual Summary Report of the Geological Survey is now published in parts. Applicants should, therefore, state what particular geologist's report is required, or what subjects they are interested in.

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

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

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

MEMOIR 60. Arisaig-Antigonish district of Nov-Scotia, by M. Y. Williams.

Mamore 78. Wabana iron ore of Newfoundland, by A. O. Hayes.

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

Applications for reports should be addressed to the Director, Geological Survey, Ottawa

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