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New Series Vol. 10 No. 7

October 9th 1907

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66 Express for New Glasgow	21.15
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	15,30
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22 Mixed from Pictou Landing	18:10
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over five square miles for eighteen months, cost \$30,00; leases for four renewable terms of twenty years each can be selected from them at a cost of \$50,00, and are subject to an annual rental of \$30,00

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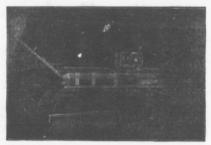
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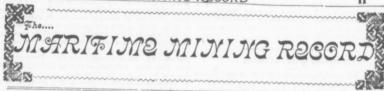
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Vol. 10, No. 9. Stellarton, N. S.,

Oct. 9th. 1907. **New Series**

MARITIME MINING RECORD.

The MARITIME MINING RECORD is published the second and

The RECORD is devoted to the Mining-particularly Coal Mining Industries of the Maritime Provinces.

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STELLARTON, N. S.

OCTOBER 9

THE "BAIRD" BATTLE.

'PRACTICAL' ON AIR SPLITS.

In reply to Mr. Baird's question in last issue I might state that the following are some of the alterations which take place in a mine when the ventilating current is split:

The total quantity of air entering the mine is increased,

The amount of rubbing surface in contact with the air is increased. 3. The area of section available for ventilation is

increased The velocity of the air beyond the point of split- ing the mine and not decrease it.

ting is decreased. There is a redistribution of quantities and pressures throughout the mine,

With regard to the first change many complications arise in trying to figure out a question on splits and the method I employed in working out the question under airways exist on the outer side of the point of splitting. such conditions and we are left to our own discretion whether we assume that there are any or not. A student at an examination is supposed to stick to the question given and assume nothing. Again it is possible for conditions to exist where there may be no airways outairways have to be considered it will be found that the new quantity will be less than the quantity found by the formula used out it will still be greater than the quantity passing before the splits are made except in cases where splitting is carried on too much-there is a limit

to useful splitting which must not be exceeded. The second change is allowed for in the formula usies directly as the rubbing surface and at first glance it isfied myself was true in practice. We are all apt to

increase of rubbing surface is more than counterbalanced by the third and tourth changes, The pressure required to overcome friction varies inversely as the area of section so if we increase the area of section by splitting the air the resistance will be lessened in inverse proportion. Now if we put on three airways in place of one as is stated in the question we have an area considerably larger than we had at first, so at least some of the increased rubbing surface is counterbalanced. Now the pressure required to overcome triction varies directly as the square of the velocity so if the velocity is decreased as it certainly is in case of splits, then the resistance is decreased in a much larger proportion. Half the velocity only requires quarter the pressure and one-third the velocity only requires one-ninth of the pressure. If this is so then the extra resistance due to rubbing surface must be more than counterbalanced. With regard to the fifth change much might be said if time and space permitted. One thing is certain, the fan would circulate more air with a less waterguage after the change was made because the resistance would te less therefore we would get more air for the same power than we had at first, However according to Mr. Baitd's last calculation the quantity in the three splits would be only about 29,000 or slightly less than the original quantity. If this were so we had better stick to the single air course and leave well enough alone. Modern ventilating practices have proved that splitting air will increase the quantity enter-With regard to the pressures being the same in each split I might ask Mr. Baird or any other mining man who has the opportunity to prove this for himself. It is an easy thing to take a pocket water gauge into a mine and find the pressure by a hole in a stopping between intake and return. What is the good of wrangling over figures when the discussion would not apply in any case where lengths of practical proof is so easily obtained. A guage on the branches of a main steam or water line would also prove The question, however, does not state that there are any the same thing Why should any one take these things for granted or why should we quote from the books of learned men, or copy from text books. There is no need to use logarithms either nor to use even simple figures here is a chance to get at plain facts. I am fairly well acquainted with ventilation formulae and don't side of the point of splitting so that we must stick to need to copy much but I never yet found these to work the conditious named in the question. When outside out in actual practice with any kind of satisfaction. Little things like these are easier to prove in the mine than on paper. Next issue I hope to hear from Mr. Baird the result of his practical tests, I myself proved the whole thing to my own satisfaction long ago, i. e., with regard to the pressures on splits, and that is why I so confidently state that the pressures are equal. When I showed the derivation of the relative quality formula The pressure required to overcome the friction var- I simply showed mathematically what I had already satwould appear that more pressure would be required to make mistakes sometimes and perhaps my own practicpass the air after the splits were made, However the al tests were not properly conducted. Let Mr. Baird

prove this to my satisfaction by tests of his own and will be heartily glad to have my mistake rectified. took up this discussion for the sake of information and will be glad to see the results of some practical tests

ANT WATER JEFFREY MINING MACHINES.

The Jeffrey mining machines with flame tight motors and starters shown in the accompanying illustrations were brought out almost simultaneously with the publication of the British Departmental Committee's report upon the use of electricity in mines. This report, which embodies rules for the use of electricity in mines, recommended the adoption of entirely enclosed motors and auxiliary devices, such as starters, terminals, etc. for all mines coming under General Rule No. 8 of the Coal Mines Regulation Act of 1887.

Mining machine motors of necessity have to be designed to be very compact. It is therefore necessary that every advantage be taken of space, so that the motors will not heat excessively under their regular duty. In this country where our mines are very free from gas, the open type of motor has found favor on account of its accessibility, and on account of the fact that the same

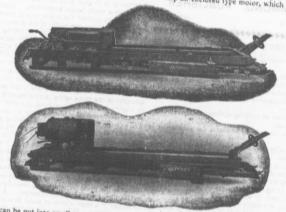
attention than in any other service known. illustrated are peovided with self oiling ring oiling bearings, which are so arranged that the oil hermetically seals the motor so that any gas which may accumulate about the motor cannot possibly be ignited by sparking at the brushes, or any interior trouble with the motor. Over the commutator of this motor is a plate glass door, protected by a heavy malleable iron lid. Through the plate glass door, the brushes may be observed without orening the motor to mine gasses.

The starting switch for this motor is protected in a similar manner to the motor itself, all contacts being hermetically sealed in flame tight metal castings.

The inspector for the British Government who recently inspected these motors, pronounced them as conforming in every particular to the rules and requirements of the Departmental Committee,

An advantage of these motors is that they can be applied directly to Jeffrey mining machines with no other change than the removal of the existing open type mot-They are wound for standard voltages of 220, 250, and goo volts, and may be wound special for other voltages where requirements demand it.

Attempts have been made by manufacturers of coal entting machines, other than the Jeffrey Mfg. Co'y, to develop an enclosed type motor, which motor would not



motor capacity can be put into smaller space in the open only conform to the rules and requirements of the Enghowever, the Jeffrey Mfg. Company have been able to

The Jeffrey 21-A mining machine motor, which is company, is a modern motor in every respect. The arm motor, which is a motor of the enclosed type conforming pole pieces are of laminated sheet steel, and the windings of both the armature and field coils are insulated in the most approved manner for mining machine service. This service, by the way, is probably the most severe of hines equipped with same have been ordered by the moisture, as well as heat and infinitely more dirt and less ernment are effective.

lish government, but would at the same time be an effiput upon their mining machines motors of the enclosed est possible point the expense of keep up, but up to this put upon their mining machines motors of the enclosed est possible point the expense of keep up, out up to this type which are of equal capacity to those of the open time no such motor has been put upon the market by type formerly used, and the enclosed motors occupy pracany builder save the Jeffrey Mig. Company. This company has not only brought out the 21—A motor for what is commonly designated as the standard type of chain typical of other mining machine motors made by this breast machine, but they have also brought out the 27-A thin vein machines. The demand for such machines equipped with both of these motors has been very extenany service which electric motors are called upon to per-largest coal companies not only in Great Britain, but in The insulation has to withstand both oil and the English Colonies where the rules of the Home Gov-

Figure 1 shows the 24-A coal cutter equipped with enclosed type motor, and figure 2 shows the 27-A coal

COALS OF THE COW BAY BASIN.

-BY THE EDITOR .-

I have heard it said that the Dominion Coal Co, abandoned the colliery at Port Morien because it had come to the conclusion that there was no body of coal there. Of course I have also heard a second reason, namely, that the coal was more expensive to work than in the Glace Bay collieries, and likewise a third reason that the coal was not equal in quality to that of Glace Bay. company abandoned the district for either the first or the third named reasons, I am inclined to the opinion that it acted on insufficient information. Some of us are not inclined to accept untion. Some of us are not of geologists as to the factory results: limited extent of the basin, nor the opinion of even so eminent an authority as the late Richard Brown as to the commercial value of the field. Mr. Brown says that the Blockhouse seam is the best in the series and that not more than 200 acres of it are available for mining purposes. an exhaustive investigation the North Atlantic Collieries, Ltd. have acquired the Blockhouse seam to seaward and they intend to follow it and make it available for the purposes of the company. Indeed it may be said that all the areas of the company are submarine. The President of the company who has taken a hearty and intelligent interest in searching for information in reference to the field has not the slighest hesitation in asserting that his company owns one of the finest properties in Cape Breton. The first step in the evolution of the North Atlantic Collieries was taken on a street in Halifax on a day some three or four years ago when the present prime mover in the formation of the company was stopped by a gentleman who put the question: "Are you one of those who hold that the Dominion Coal Co. possesses all the coal areas in the South side of Cape Breton County worth speaking about; if so I may show how much mistaken you are". Admitted that the North Atlantic Collieries have a splendid proposition in Attains conferes mive a spienaid proposition in the Cow Bay district if they think they may have the cream of it, they may be as much mistaken as those who thought the Dominion Coal Co. had it all. There are some decidedly of opinion—the veteran explorers Nevilles and Pendergast in the number—that the areas owned by Mr. J. R. Cow-ans, or by the Cumberland Ry. & Coal Co., some four miles in a westerly direction from the old Blockheuse mines, constitute a property whose value cannot be overestimated. I make no estimate of the extent of the areas underlaid by coal seams, nor of the probable large quantity contained therein, I am content to state that many coal ed therein, I am content to state that many coarseams are on the property, and that the coal is of a surprisingly superior quality. During recent years much exploratory work has been done on the areas, and the results have been most gratifying to the holders. There is a wide divergence of opinion among authorities as to the names that hould be given the different seams. The Spencer

may be the equivalent of the Phelan at Glace Bay, cutter which is a low vein machine equipped with enthat district. That is neither here nor there for my present purpose. The chief point is: "Is the coal in the Spencer, so named, equal in quality to that of the Phelan"? Recent analysis show that it is, which bears out the impression I formed of its quality on descending three trial pits recently and examining the structure of the coal, Three openings have been made on this so called Spencer, seam on the Cowans areas, the most recent of the three being a small shaft twenty-five feet or so deep. At this depth a fine firm roof was obtained. The seam is ten or eleven feet thick but allowing for two feet of top coal to be left on there is eight feet of excellent looking coal with a band of fire clay a half to an inch thick dividing the seam in two and thus making it possible to work the coal advantageously by fall and bench. An analysis of the coal from this seam taken on the 25th. Sept. by the Provincial Analyist, Mr. A. L. MtCallum gives the following satis-

Moisture,	3.08
Vol. Matter	90.05
Fixed Carbon	50 00
ASH	4 1 1
Sulphur	0.07
Calorine Power B. T. II	13,411
Evaporative power in lbs, of water	
at 100% c	44.00

Color of ash, Red.

Color of ash, red.

This seam has been traced on the property for say three quarters of a mile, not traced merely on the surface, but by trial pits. Below this seam about one hundred and fifty feet roughly speaking, is another seam, to which some give the name of the Long Beach seam, but as already stated. I take no responsibility for names, where high authority is resolutely divided. The pit on this seam is not deep and therefore nearly on the edge of the outerop. The coal, notwithstanding, gives indication of being of high value. Of course being so near the crop the coal is not quite solid. The height is five feet, or a little over, indeed it is called by the explorers a six foot seam, but with a de-

ther, is as follows: Moisture..... 3.10 Volatile matter..... 39.75 Fixed Carbon...... 51.94 Ash...... 5.21 Sulphur. 2.82 Colorific Power B. T. U. 13246

sire to be as accurate as possible I take the lesser

height. The analysis of coal from this seam, the sample having for a time been exposed to the wea-

At a distance of less than two hundred feet below this seam is another There is four or five tt. thickness of coal in this seam, but, at the crop it is divided by a heavy band of clay, some four feet thick. The upper portion of the coal-2 feet, is dull looking—the lower portion, two and a half feet or so, is bright and clean. If this be considered as two seams there is the possibility of their coming together to the deep.

The fourth pit visited was sunk on what they are pleased to call the Lorway seam. The Lowray

thirty odd years ago was worked at Reserve. If the seam underlies the Dominion Coal Co's areas, if the coal is as good and as thick as at the Port Morien back lands, then the big company has a seam of coal that will come in handy when the Phelan becomes exhausted. In a shallow pit, at a point not far from the crop the seam is as bright and pure a piece of coal as one could wish for. It point not far from the crop the seam is as oright and pure a piece of coal as one could wish for. It The Workingman's paradise. That is what is not often that one comes across so excellent an New Zealand has been called for many years.

Moisture.		
Volatile Matter	3.65	
Volatile Matter Fixed Carbon	39.25	
Ash	55.46	
Sulphur	2.04	
Calorific Power B T II	0.79	
Calorific Power B. T. U Evaporative power in lbs. of water	13779	
at 100 % c	14.77	

Color of ash, nearly white, This analysis shows this coal to be extraordinarily low in both ash and sulphur, and therefore

suitable for almost any purpose,

About three hundred feet below this seam there is one of about two feet six, and fifty feet again under that one another of about equal thickness. I which, by the way, Mr Nevilles declares is a continuation of the Mullins, and under the conglomerate, which is some five hundred feet below the Mullins, another seam was struck, but the thickness and the quality of the coal could not be deterness and the quanty of the coal could not be deter-mined owing to the inflow of water, and the pros- istrate, who declares, as stated, that if men will pectors having no sufficient inducement to continue not abide by the decision of the arbitrators they pectors having no summer made on the property of the work, as the seams were not on the property of the narties for whom they were working. While the parties for whom they were working. the seams referred to above are as stated, four miles from the shore they can be traced all of that disfrom the shore they can be traced an or that dis—are inegal. And had we in rova scotta just a nu-tance. Exposures have been made at Long Beach the more foresight and a little more sand—espectance. Exposures have been made at Long Beach the more foresignt and a fifther more saint—espective of the six and eight foot seams. At this point the fally sand—strikes would have been illegal with out by the trial pits, that the seams flatten the furth-the necessary machinery to make them so, and sight have Limited with the Helling deliber. out of the country of the country of the considered by those who ought to know to be a most val-

The work of opening up a colliery in the Victoria section of the Dom. Coal Co's, property is now on in earnest. The new colliery will be called the Victoria, its official number being 12. The slope will be on what is known as the Victoria seam. The coal from this seam has a high reputation as a domestic and as a steam coal, The product therefore may be sold exclusively for household purposes, and for bunkering steamers. The colliery will come into line as a producer next spring. The management anticipate that it will be a producer to the extent of 10,000 tons a month by next July.

- Rubs by Rambler.

it was nt quite so. If the workingmen of New It was nt quite so. If the workingmen of New Zealand thought they had the best strike prevent-itive in the world, it is no great wonder. The much lauded arbitration act was all one sided. It compelled the employers to accede to the a-It compenses the employers to account to the award, under forfeiture of their goods and chattlels; it had no provision for compelling the workmen to pay like respect to the award of the arbitrators, that is where the workmen had no visible assets, under that one another of about equal thickness. I At least it was understood until recently that the had no opportunity of viewing the coal in these workmen without property could not be compelled as the trial pits which had been sunk severed to comply with the findings of the Board if al years ago were filled in. Mr. Nevilles who had adverse to their claims. In short the arbitration for years done a large amount of prospecting in act was a one sided affair; it was compulsory this district is of opinion that these two seams have when applied to the employers, non compulsory for years done a large amount or prospecting in act was a one sided analy; it was compulsory this district is of opinion that these two seams have when applied to the employers, non compulsory ing only fifty feet of strata between them may on the employed. But there has recently been a come together to the deep. That is possible. There change. The law is now read differently. After a retwo instances given in C.B. county where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated instances in which the employees laughtened and the strategies of the country where seams repeated in the strategies of the s are two instances given in C.B. county where seams repeated instances in which the employees laugh-divided near the crop by several feet of strata came ed to scorn the adverse decision of the Boards, together to the deep. Old Bridgeport mine is cit-a suit was instituted against parties inclined to ed as a case in point. Nor does the seams given a-be contumacious. The magistrate decided if the together to the deep. On Bringeport limite is cited as a case in point. Nor does the seams given able contumacions. The magistrate decided if the bove cover all that may be traced on the Cowans men could not or would not pay the penalty promen conta not or would not pay the penany provided in cases of non compliance that they must yided in cases of non compliance that they must go to prison. This was something unheard of, so the case was appealed. On appeal to the higher court the decision of the magistrate was annulled, Further appeal was taken and now the court of must pay the penalty by money payment or by imprisonment. In short the judgement of the impresentation. In short the judgement of the final court of appeal of New Zealand is that strikes are illegal. And had we in Nova Scotia just a lit-

And right here I might ask the Halifax dailies ered by those who ought to know to be a most val-uable property. It is to be hoped that the develop-ment of so fine areas will not long be delayed.

Zealand most enthusiastically to take particular notice that that country's arbitration law is only now where the Nova Scotia Act was seventeen years ago I say was seventeen years ago, for the N. S. Act as it is to-day is not the same as when introduced and passed by Mr. Fielding.
Some politicians, not in the true interests of the
workingmen, had the fourteen days wages ponalty for non compliance with an award reduced to three dollars—indeed one politician suggested a three dollars—indeed one pontician suggested a dollar penalty but that was so great a reflection on the present finance minister's sagacity that it was vetoed. Our Act is as uneffective to-day as the New Zealand Act was, while the New Zealand is only to-day as effective as the N. S, Act was in

the Lemieux, and we would not probably have mine whether such matter of dispute should be had the present strike at Springhill. In my opin- referred to arbitration or not." ion neither masters or men should have the privilege of saying "We will give in only when beat- the matter complained of should be submitted to Whichever side is in the wrong should be combatants can show that the dispute does not and the complaint. shall not effect the public in any way, that none will be sufferers but the direct disputants, then 1 putants are affected the government should say: forthwith refer the matter to the Board. "This difference must be arranged quietly and speedily by arbitration."

told the Sydney Record that in his opinion the act is a king to the Lemieux.

of one man-the chairman of the Board. speak, for the employers, the second in a similar a judge of the supreme court on application of capacity for the employed, while the third or the commissioner.' chairman declares which side has presented the strongest case. A Board of three thus constituted that an arbitration has been granted may withold can scarcely be a perfect tribunal and in proof I ber of judges sit and decide. The decisions of Boards of Arbitration are held to be final, therefore the Board should be composed of men, if pos-

Sec. 3-"When any dispute arises between the employer and a majority of the employed, or the amount of wages of the employed or the division majority of any division, in respect to wages, the paid into the chartered bank shall be forfeited by employed shall not strike or abandon work, and the employer shall not reduce the wages, dismiss to the agent of the employer, for his use and benor look out the employed or any division, if the efft by the commissioner, after first deducting the employer or a majority of the employed, or the costs of the arbitration." majority of any division, makes complaint in regard to the matter causing such dispute in writ- award to the supreme court in banco. ing to the commissioner until such matter is fully

am under the impression that our local Act is not

determined as in this chapter provided."

Had the Fielding Act been made a little the employer, may summon the agent of the emanore compulsory instead of a little less; kad it ployed, or of the division, or of the employer makplainty intimated that neither ingeters or men ing such complaint to appear before him and adshall cause stoppage of work, but instead shall duce evidence in support of such complaint, and arbitrace we would have had a better hav than upon such evidence the commissioner shall deter-

Sec, 6-"If the commissioner determines that arbitration, he shall forthwith make an order recompelled to give in at once. If strikes are to be ferring such matter to the Board; if he deterabolished and lockouts there must be compulsory mines otherwise such matter shall be deemed to arbitration and compulsory obedience. Of course if be finally determined against the party who made

Sec. 7-"When an employer and a majority of the employed, or of any division apply jointly in say let them light it out till both sides are black writing to the commissioner to settle any such in the face. When other than the immediate dis-dispute by arbitration the commissioner shall

Sec. 8-(1) "The Board shall consist of five persons, two of whom shall be appointed by the Governor in Council, one by the agent of the employ-A leading member of Pioneer the other day er who is a party to such dispute, one by the agent of the employed or division who are the other Provincial Arbitration Act was better than the party to such dispute and one by the persons ap-Lemieux Act. I am of a similar opinion. Our pointed by such agents.

The chief objection urged by the Grand Sec'y, within five days after notice from the commiss of the P. W. A. against the Lemieux Act was, if I ioner of the reference to the Board of the matter mistake not, that the decision rested in the hands of dispute, or if such persons so appointed do not This within five days after their appointment make the view is largely correct. There are it is true three appointment required by this section to be made arbitrators but one appears, as advocate, so to by them, any such appointment may be made by

adduce the fact that however impartial a judge arbitration has been granted for the fourteen the wages of the employed or division to whom of the supreme court may be, and however wise days preceding the appointment of the last of he may be considered, there is always appeal such arbitrators, and shall pay into some charterto the full bench, that is, to a court where a num- ed bank in this province to the credit of the commissioner a sum of money equal to DOUBLE the amount of such wages.

Sec. 23-"If the Board decides against the emsible, without leanings, or composed so that it ployer he shall be bound thereby, and if he does may contain a majority of men without pronot submit at once to the award, the sum paid innounced bias. If this is a correct view then there to the chartered bank to the credit of the comcan be no doubt as to the superiority of the mode missioner, shall be forfeited by the employer, and of appointing the provincial Board as compared shall, after first deducting the costs of the arbitwith that adopted in the Federal Act. According ration, be paid to the agent of the employed or to the Provincial Act there are two members of division, for the use and benefit of the employed the Board beside the chairman in a position to or division in proportion to their respective rate give independent and unbiased judgement. As I of wages."

Sec. 24-"If the Board decides against the emso well understood as it should be I will give a ployed, or against the division, and the employed or any division to whom arbitration has been granted does not at once submit to the award the the employed or by the division, and shall be paid

Sec, 31—"There shall be an appeal from any

From the foregoing it will be seen that the ob-Sec. 5—"The commissioner upon the receipt of man virtually decides, does not apply to the Projection to the Lemieux Board namely that one such certificate, or upon receipt of complaint from vincial Board. There are two arbitrators inde-

pendent of those appointed by the employer and an over zealous legislator tried to get the law aemployed. Of course there might even be some mended so that only a dollar per man could be Council. Pointies these days, sad to say, permeate at three domars per man substituted for fourteen almost everything and it is just possible that days wages. The Act was far better as it origin-polities' might influence the governor-in-council ally passed. A workman would laugh at a three in his appointments. To obviate that, to have a dollar fine, and an employer might consider it far the Premier of the Province and the Leader of than comply with the decision of the arbitrators. the local opposition should mest together and af- All arbitration is farcical unless the losing side is ter having been first duly sworn proceed to select made to abide by the award. two men who they thought could rise superior to all party considerations.

meet such cases. Instead of confining the arbit- fifty dollars. ration to disputes 'in respect to wages' it could be extended to disputes 'in respect to any matter' or any serious matter. There may be some difference of opinion with regard to Section 6. It may be held that to allow the commissioner power to say there shall not be an arbitration is rather drastic. Still I am in favor of the clause as it stands, as I scarcely think the commissioner would refuse arbitration if he judged or surmised that such refusal would eventually lead to a strike. The section is intended solely to prevent the request for arbitration on trivial matters. The suction of the Board. If the members of the Board are not thoroughly honest, reliable, independent, unbiased, fearless and intelligent, arbitration can governor-in-council to appoint two members, then four. Certainly. How then would they be appointed? That is a difficult point. One way out might be to allow the governor in-council to name land, and frequently agents to European points, the opposition to name the four members. This would free the Board from any charge of partis-And what has partisanship to do with anship. And what has partisanship to do with Drummond connery in Fielou Co., suffers from the settlement of trades disputes? Perhaps more lack of loaders. Common labor is scarce on the than many imagine. Take this Asiatic unmigra-mainland as well as on the Island. The Record it, that it may become a party question, and that mines in the interests of the operators alone, but efforts on one side or the other or both will be in the interests of the miners as well, or in other enorts on one side or the other or both while in the interests of the unners as wen, or in other not to bring about a settlement that will be the words, in the interests of the coal trade of the wisest, but one that will catch the largest number province. The miners in very many cases, are as of votes. A word in reference to Section 22. The anxious for laborers—loaders—as are the operaemployer is not now permitted to retain fourteen tors. While a scarcity of loaders means lessened

objection to the appointments by the Governor-in retained. This was rejected and a compromise Council. Politics these days, sad to say, permeate at three dollars per man substituted for fourteen wholly independent board, it might be well that better to forfeit three to five thousand dollars

We are probably wiser from experience and how does the Mining Record propose to get over observation than in 1890, and it may be that our the Alien Labor Law? By that Act any person Provincial Arbitration Act, the pioneer of all such or corporation who brings into Canada any alien acts in Eeglish speaking countries, could be on one to perform labor or service of any kind in Canada or two points amended. Since 1890 there have or who knowingly assists or encourages or solicits been strikes or lock outs over other matters than the importation of any alien, is liable to a fine not wages. Section 3 could readily be amended to exceeding one thousand dollars and not less than

After reading the above I asked quietly of myself, "Whats the game" and wondered if it was really a desire for information that prompted the question or was there something behind. I put the thought from me as ungenerous. I am aware that an editor, in the necessarily hurried reading, of his contemporaries, at times jumps to conclusions and puts constructions on words not warranted by the text. This must be an instance in point. The Mining Record has uttered no ery for miners for Nova Scotia. It has, however, cess of any arbitration act depends very largely, of the Chronicle knows, is a very different thing. cried out for mine laborers, which, as the editor In issue of 25th. Sept.—the Record's latest reference to the short supply of labor,—I read on page 12, second line of article headed. The Labor never succeed as a means of finally averting skilled labor, but the collieries of the Province hever succeed as a means of many avertus same adolp, our the contents of the Province strikes and determining disputes. How to get a are sadly handicapped owing to a scarcity of Board composed of such men is the difficulty, COMMON LABOR. The CRY at the mines is for Board composed or such men is the dimensist to all precedent I would ex- LOADERS." And all through the article the refclude an employer's man or an employees man erences are to 'unskilled' labor. In 'Ramblers' from the Board on the ground that the advocate references to the government's immigration of one side or of the other side, or in short of scheme the word miners does not once occur. either side cannot well be at the same time a No reference is made to scarcity of 'mmers' but judge or a member of the jury. Of course the towardity of labor. A sentence from Rambler's men and masters would be permitted to appear article reads: "Due to scarcity of labor the Dom. her and masters would be permuted to appear article reads. Due to scattery or labor the Dom. before the Board and by themselves or their sol- Coal Co. is producing 14,000 tons a day, whereas before the board and by their several views. If if the collieries were full manned, the production I have doubts as to the wisdom of allowing the should be 16,000." I admit that some unfamiliar governor-in-connect to appoint two memoers, then with hinder containing the referred to, as well as laborers, but everybody four. Certainly. How then would they be apknows or should know, that the Dominion Coal Co. is continually sending agents to Newfoundto make it known that the company is short of labor. Coal miners do not come from Newfoundland, nor from Northern or Southern Italy. The does not 'cry' for laborers for the Nova Scotia days wages to be placed in a bank as somewhat of a output to the operators, it means also much less guarantee that the decision will be complied with; pay, or much disagreeable word—to the miners.

As a rule miners dislike very much to load the in mind that the coal which the Steel company of Ontario and British Columbia, in many ways, coal that has to be adjudicated upon. Where is the seek to entice from other lands the kind of set 'weight' of evidence that this rejected coal was there their provinces requires. Why should not not reasonably free from stone and shale. If I province?

States know the conditions and wages of coal min- what Judge Longley hinted Mr. Wanklyn's was. government." dated from Sydney, and immediately sent a let-reference to that. But why should the Coal ter to the press warning men against going there company do that? The break between the ter to the press warning men against going there company do that? The break between the as conditions in New South Wales were not what two companies did not actually occur until the circular pictured them to be. Now if a notor- the 153 cars were sent back. a leading U.S. operator is correct, to wit, that in Pa there are now few English speaking or Amer- back the 153 cars was that on which hostilities

that the Sydney correspondent and the financial evidence. editor of the Star are one and the same." a fact; who would have thought it? The fact is surely corroborative of the axiom that "evil comin need of prompt and drastic revision. It utter-munications corrupt good manners." Sydney at ly failed in the case of Steel. The very favorable I admit that the Steel Co. have in Mr. Plummer, assertion of Mr. Jones that he was buying every Mr. Jones and perhaps one or two others, a share of steel he could find cash for; nor yet the amouth speaking, unctuous, combination which most optimistic report of Mr. Plummer. Instead the Coal company cannot match. In his speech of telling a good story, the tape sulked or funked. ions appear as harmless as a doves. Mr. Plum- down this way that the Montreal Stock Market that so far as speech goes, the coal directors are more than holds its own. The reason given for out-classed, and no wonder that some, while un- Steel's decline while coal went up, namely that the der the influence of the steel management, are Coal crowd were selling Steel and supporting Coal carried away.

coal they mine. For these reasons the Record took delivery of is not to be considered, for the 'cries' for the government's assistance in the mat- reason that the Coal company only declared the In assisting to procure men it will be help- contract violated when the Steel Coy. returned ing the miners as well as the operators. Alien the 153 cars of coal, Not the coal in the Steel Co's labor law or no Alien labor law, the governments dump, therefore, but the coal in the 153 cars is the the government of N. S. do a like thing for this am not in error the Steel Co'y produced a witness, Mr. Scott, to prove inferior quality, but did he not confess, if I am not again in error, that he I read semewhere, the other day—was it in the had not examined all the cars, but had sent a man Eastern Chronicle—the following sentence: "The to look over the remainder?" If this be so, then coal miners of Great Britain and the United Mr. Scott's examination was as superficial as ers in Nova Scotia and if these conditions were As the whole case, in my opinion, hinges on the better than in their own country they would come quality of the coal in the 153 cars, the Star can do quite as readily for the coal companies as for the service to the public by publishing the evidence government." Possibly; if it is a fact that they given by both sides as to its quality. This evid-know about conditions. What is that we read in ence should not occupy much space. The Judge, the papers some ten days ago? Was nt it some it is true, held that the coal in the Steel Co'y's thing about Keir Hardie? Oh yes. Keir Hardie dump should be considered, and expressed surhad got hold of a circular of the Dom. Coal Co. prise that the Coal Co'y had given no evidence in Then came the ious leader like Keir Hardie is unaware that climax. 'Communings' before the real contract Sydney, C B, and Sydney, N. S. W. stand for dis- was signed were excluded as evidence by the tinetly different and distant places on the globe, Jndge, Why then should not the coal in the is it likely that the rank and file are more fully dump, coal received before the "crisis" not also be informed. As for the U.S. miners we would held as 'communings' and be excluded as evidence rather be without them if the late declaration of in determining the quality of the confactually rejected. The action of the Steel Cov. in sending ican coal miners; their places have been filled with Poles and Hnns.

Therefore the whole case hinges on the point, 'Was the Steel Co'y justified in sending back the 153 cars; was the coal not reasonably Says the Montreal Star in its financial columns: free from stone and shale. The Judge says the Mr. Drummond is apparently unaware of the fact evidence is that it was not. Let us have that

The saying "The tape always tells the story," ly failed in the case of Steel, The very favorable mosphere must surely have a relaxing influence, decision of Judge Longley had not the slightest If course there is excuse In a desire to be fair impression on the tape, neither had the emphatic the former is as wise as a serpent, while Mr. The only story it told was of the kind unlooked Jones has the genius or making his company's act- for. It is beginning to be accepted as a truism mer knows just how to talk in season, and Mr. goes by contraries. In the face of what is good Jones both in and out of season, so, no wonder news it declines; when the news is bearish it seems plausible, but who is after Nova Scotia Steel that it should have declined to 64. At that The Star's financial editor thinks Mr. Drum- price the stock yields over 9% on the purchase, and mond is not fair to Judge Longley and says "The as there is not the least probability of the divid-Judge gave a positive and lucid ruling on the end being passed for a long time to come, it seems stone and shale matter." Well, he gave a posit-strange indeed that it should be he'd in so little ive ruling without doubt. He found that the coal esteem apparently, by investors. No iron or steel was not reasonably free from stone and shale, company in the Dominion is so favorably situated and that finding purports to be founded on the as 'Scotia.' It has its own coal supply, its own evidence. I have no doubt the financial editor de- iron ore, and it is capitalized for a ridiculously sires to be fair, therefore I may ask him to pro- small amount of its great resources,—its remarkduce the evidence the Judge relies upon. Bear able output, and its most ecomomical and effici-

ent management all taken into account. Those present moment there never was a period in the history in anyway familiar with mining know that devel- of the province when, take it all in all, there was great-

butter is thirty cents a pound, and potatoes as the man of the right stamp." el. Before the present briskness in coal mining through the ignorance of people in other lands as to control the products of the farm were a drag on the mar-ditions here. Mr. Murray expressed the opinion that as ket, and hence farmers went either into debt, in a people we are not very industrious. That is so. He the prices ruling to-day been obtainable twenty so too, economy with many is an unknown science, the present time. It may not be an exaggeration ly a correct assertion, then it is clear that farming some such purpose. attend the encouragement of farming if wise en this is what I found. On the Monday after pay day the accouragement to mining is neglected. Any set output was 8600 tons against an output of 13,000 to 14,back to mining, from whatever cause, a lack of ooo tons on days previous to pay days. Here was a loss laborers it may be, is very apt, nay certain, to re- or between 30 and 40 per cent. in output and this was sult in unprofitable farming. It is well to make not the case only on some one particular Monday after sait in improntance farming. It is went to make not the case only on some one particular anomaly after an effort to have all the vacant farms occupied, is pay but was what happened as a rule. At a colliery in it not, at the same time well that the industry, Pictou Co, where the number of producers is say 200, which does more than aught else in this province there were off work on Tuesday, 1st. Oct. the day after to secure a market for the tiller of the soil, should pay day, 70 men or thirty five per cent. of the total proto secure a market for the tiller of the soil, should pay day, 70 men or thirty five per cent, of the total probave a sufficient supply of that which at present ducing force, I ask have these figures not the tendency tstands in need of. I certainly think it should, to make managers swear. It is a great pity that work-what if some differ in opinion? Does it not allowed a remarked to the reliable to the soil of while the second probability of while the second probability of while the second probability of the soil of while the second probability of the second ways almost wholly depend upon the point of while the sun shines. view.

opment work is generally counted 'dead' work, er individual prosperity among our people." And he that is work that may fall to be charged to capit- gives first place, as contributory to this prosperity, coal al account. In the development work being done mining "Our output of coal has gone up by leaps and at Belle Isle, the Nova Scotia Steel Co. is actually bounds."

Our mines have been taxed to the utmost to at beile Isie, the Nova Scotia Steel Co. is actually bounds. Our mines have been taxed to the database making a profit. And if the outcome of this work meet the demands. You must remember that we have turns out as hoped for, "Scotia" will have an the only coal East of the Rockies,"; and then he refers to assett which should provide big dividends for the steel industry which could not be carried on in the province without coal. He recognizes that if the pro-What price did the farmers in Cumberland, have more men. Here is what he said on that point: Cape Breton, Pictou, Inverness, and, indeed, all "It is my opinion at the present moment that there is vince is to grow in proportion to her resources we must of the other counties of the province receive for scarcely a town or county in the province where a fair the general products of the farm, say, ten years number of the right kind of people could not find renum-How are the prices of the products of the erative employment and there is scarcely an industrial field, the dairy, the hennery, and the market gar- concern in this province which can hope for any great den out of all proportion higher than they were expansion until they are able to draw upon a larger field at that time? Is the increase in price not largely of labor," In making this statement I firmly believe due to the great prosperity of the coal mining in- that Mr. Murray forgot all about an Alien Labor Law. dustry of the province, and to the springing up I would like to know just how he is going to get over dustry of the province, and to the springing up a would not be known just now not is going to get out and expansion of industries dependent for their that, lest I be asked the question by any one in the search springs of action on that mineral? Where, in all for information Mr. Murray proposes to ask the cothe province, are the prices of the products of the operation of town councils, etc. etc. for the purpose as he farm highest? In those parts of it where mining says, "to see if between us something cannot be done to is most actively being carried on. In Cape Breton have the advantages of this province better known to high, in some cases, as a dollar and a half a bush-realizes the disadvantage Nova Scota labors under Had also hinted that we were not too economical.

It say that the prosperity of a sixth part of the uent mention of the much time lost, by the workmen at population of the province depends largely upon the collieries, is made to cover the short comings of the the prosperity of the coal trade. If this be near-management or of the machinery, at the mine, or for connot be profitable unless mining is prosperous, serious one for which there seems to be no ready cure. Not at all; the off time evil is a Nova Scotia, as a farming country, cannot produce The evil is a real one and prevails at all the collieries, in competition with some of the other provinces; Let me give a couple of instances of 'off work' which with P. E. I. for instance in Oats and Potatoes; came under my notice within the past ten days. Having with Quebec in Hay, and with the West in Wheat, myself the idea that the managers of the mines might be In short language, the market for the products of exaggerating, just a little, the number and frequency of Nova Scotia's farms cannot be had abroad to pro-

The editor of the Eastern Curonicle, who stood by the Premier Murray speaking at Shelburne the other day much makes the following suggestion to the mechanics gave token that he is alive to the exigencies of the pro- of Springhill:—"It appears that the government is called vince in regard to a labor supply, Though there are upon to take charge of the mine and keep it free from wamany vacant farms the premier did not admit that the ter. We hope the men will make no objection to that. fact was greatly retarding prosperity. In spite of these The property is their own as much as it is that of the fact was greatly retarding prosperity. In spite of these the property is their own as much as it is that of the year that times were government; more, for the government is only acting for highly prosperous, for instance he said "Happily at the the people in general throughout the province as the lat-

AROUND THE COLLIERIES.

On the 25th, ult. the Dominion Coal Coy, from its

As the pic-nic season is over the mine managers look for an increased output from this out. It is the belief that the men will now settle down to work until the Christmas season comes round.

There has of late been a considerable increase in the ventilating current in the Allan Shafts. Whether by 'splitting' or otherwise, the volume of air, with the fan running at the same speed, was increased by 7000 feet Grand Lake. per minute.

Mr. J. W. Revere, of the Dominion Coal Co, bought high for their coal. For instance, a steamer cargo was the other day in New York a car or two of copper at sent to Levis. The railway had to haul half of the car16c. per lb. The price paid by the Company a year or go back to Campbelton, a distance of 300 miles. so ago was 24cts, per lb. The decline in copper means several thousand dollars in the pocket of the Coal Co.

The foundation for an additional battery of Sterling boilers is being laid at the Allan Shafts. There are aldets of mines, each or ready four batteries, two of 250 H. P. and two of 316. Changes are lightsome.

The new boilers will be of the larger H. P. It is intended to add a six battery after a time, which will give a total boiler capacity of 1764 H. P.

The cry at the Allan Shafts is for more men. It is not likely that the most desirable class of workmen will be attracted. By desirable is meant those likely to become permanent, in opposition to migratory, as there are no houses to be had. A number of good men could lately have been procured, but as they had families they could not accept employment.

Though the distance on the surface between the No. not get i even at that price. 1 and No. 2 Allan Shafts is about two hundred yards, the tunnell being driven to connect the shafts will be about three hundred yards long. The tunnell while being driven through is also being driven up as the southerly shaft is considerably to the 'rise' of the northerly. It may take six weeks or two months yet before the connection is completed.

Referring to the progress being made at the Allan Shaits, a Post correspondent, presumably Mr. Barrington of the Engineer's Examing Board, says :- "The deverbinent outside an authorise and all places are going dou- no increase during that time in Nova Scotia possible; a large number of leading places are going dou- no increase during that time in Nova Scotia ble shift, machines are working very satisfactory, and domestic consumer and yet we are not grateful. the coal is of excellent quality, and shows every indication of lying at a very easy angle the further it approaches to the rise.? In the very future all balances will be used instead of chutes. At the present time balances are working successfully and the air courses are being enlarged and retimbered Everything is going as satisfactory as can be expected owing to the magnitude of the work, which will be some day in the near future the largest coal producer on the mainland, if not in the available. After that the output will be 100 cons daily, whole province of Nova Scotia. The towns of Stellar. to be gradually increased till it reaches 500 tons. ton and New Glasgow will, from the result of this great new manager thinks he may be able to attain that quan-mining centre, along with its steel and manufacturing tity by July '08. If he succeeds it will be a feather in concerns and railway facilities, some day sail under the his cap, as the haul underground is long, and the coal banner of one great coal and iron city,"

A young man named Atkins, by the moving of several pits hoisted the large quantity of over 15,000tons the boom of a derrick, was knocked off the Allan shaft bank head last Tuesday and killed.

The Dominion Coal Co. expect to have a big output a month, much larger than in September. Though this month, much larger than in September. Though there is no bank to drain from shipments of 350,000 tons are looked for.

The New Victoria mine or No. 12, of the Dom. Coal Whether by Co, will be connected by a branch 61 miles long with the with the fan company's main line. The connection will be made at

Mr. Norman McKenzie of Dom. No. 2 has been appointed assistant to Mr. Fergie. Messrs Christanson and McKenzie will in future carry the title of superintendents of mines, each of them reporting to Mr. Fergie.

The Town Council of Sydney have no nean opinion of the Dominion Coal Co. else it would not have appointed a committee to wait upon the big Coal company in an effort to secure c al for the people at a lower rate. In all other countries coal is advancing in With the exception possibly of some parts of the U. S. coal is cheaper in Nova Scotia than in any other country. The dome-tic consumers in Britain are paying over five dollars a ton for coal, and consumers large and small in Germany, Sweden, Italy etc. can-not get i even at that price. We have been told that dear coal hinders expansion of trade. We are told that the country which at this time shows larger expansion than any other is Germany and yet the Germans are to-day importing coal to help them along which costs landed nearly twice as much as manufacturers pay in Nova Scotia. The export price of coal f, o. b. Middlesborough, quoted last Thursday was 16/ or \$3,84 per The lowest quoted price at present for steam coal in Britain is \$3.36. The average increase in the price of domestic and steam coals in September '07 over velopment work underground is advancing as fast as September '06 is about \$1,25 per ton. There has been no increase during that time in Nova Scotia to the

The North Atlantic Collieries Co'y., which took over the Gowrie & Blockhouse Co's, areas and plant on the 27th, of July last, and has since been putting the colliery in working order, commenced last week to make a begining in the way of output though in a modest fashion. With four pairs of men, 78 tons of coal per day was sent out. In ten days or less additional boiler power will be at times hard to mine.

The Standard Drain Pipe#Co., LIMITED.

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



Prices on Application.

er are the real owners of the mine. men on strike should assist the government in every possible way. They should put their services at the disposal of the government, The latter is not going to work the mine, only working to pre-cree it. The men have as the inner only working to preserve a much interest in preserving the mine as the government. Then they should say: "The mechanics could not work for the company in pumping the mine; but that is no reason why they should not assist the government.

As indicative of how far short the shipments of coal to St. Lawrence ports are this year we give below the shipments of the several companies up till the first of Aug.:

a more dp till the firs	stof Aug. :
Nova Scotia Steel & Coal Co	1907 64 672 501 066
Intercolonial Coal Mining Co. 28 978 Acadia Coal Co. 30 233 Sea, British 18 741 American 18 741	3 849
American	31 911
That is had a 772 354	668 874

That is bad enough but the shipments to Montreal to the 1st. Oct., figures of which are to hand, tell a more

Shipments to Montreal till 30 Sept '06..... 1.096,170 ·07..... Decrease in shipments for 1907..... 895,650

At this time last year the Dominion Coal Co. had 100,-000 tons in stock in Montreal, whereas on the 30th. Sept. of this year, they had only 15,000 tons.

McKenzie King's excuse for visiting Springhill, namely that he came to see if the Cumberland Ry. & Coal Co. would guarantee to fill their coal contract with the I. C. R. appears no doubt to many a little thin. If his one c. n. appears no doubt to many a nate can.

This can object was coal why did he not take a run to Halifax object was coal why did he not take a run to Halifax whith would have been the most business like way of going about his grand; and some wonder what particular connection Mr, King has with the Railway department.

At the time of going to press it looks as if there might be an early ending of the Springhill strike.



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Synopsis of Canadian North-West. Homestead Regulations.

ANY even numbered section of Dominion Lands in Manttoba or the North-West Promotes and the Control of Dominion Lands in Manttoba or the North-West Promotes and the Control of the Control

material particulars, the a yelicuit will lose any priviring of re-entry, should cancelled.

DUTES—A settler is required to perform the conditions under one of the cancelled.

On the priviling of the settler is required to perform the conditions under one of the cancelled.

Of all east is months' evidence upon and entitivation of the land in each year during the term of three years, there is deceased) of a homosteodier resistence of the settler is a form of the experiment of the settler is deceased of a homosteodier resistence upon a farming land owned by him in the vicinity of his homosteod, the requirement may be satisfied by such person residing with the father or markets.

Providence upon used hand, the requirement may be satisfied by such as the condition of the settler with the providence of the providence of the settler with the providence of the providence of the settler with the providence of the settler with the providence of the settler was given as mostler on the form of the settler was given as mostler of the commissioner of Dominion Lands at Ottawa, of his intention to do a

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGILATIONS.

COAL. Coal lands may be purchased at 80 pc are for soft coal and \$22 for authracite. Not more than \$25 acres can be acquired by one individual or company. Royally at the rate of ten centape ten of \$280 points shall be collected on the gross output.

Letted on the gross output.

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The patent provides for the payment of a royalty of \$1.2 per cent on the salet. SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS

The patent provides for the payment of a royaty of 2 a per sea alex.

Placer mining claims generally are 100 feet square; entry fee 85 renewPlacer mining claims generally are 100 feet square; entry fee 85 renewA free miner may obtain two leases to dredge for gold of five miles each
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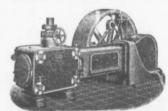
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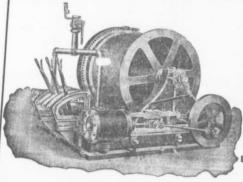
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		STATIONS.	Read Up					
No. 52 a. m	No. 54 p m			No. 51 No. p			0 58 m	
L 11 25 8 11 31 A 11 50	L 4 00 8 4 05 A 4 105 A 4 105 F 4 30 F 4 30 F 5 10	TORT HASTINGS TROY CIERONISH JUDIQUE CRAIGMORE CATHERINES POND PORT HOOD GLENCOE MARGI	ASLAFSFSTLASSYFSL	10 10 10 10 9 9 9 9 8 8 8	15 57 44 25 40 40 45	8	3 2 3 3 6	

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