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Pictou.

Cape Breton. * Inverness

New Series Vol. 9 No. 1

July 10th, 1907

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sard square miles, and the deposits of coal iron ore, etc., are practically unlimited.

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SOLE CANADIAN REPRESENTATIVES

PEACOCK BROTHERS CANADA LIFE BL'G MONTREAL, P. Q.

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

Reliable crop reports from the Canadian west are optimistic for another year of plenty in cereal production. having takenover on June 1st., the Joggins Mine and Rv. year owing to the large number of newcomers settling and are starting at once on opening a new slope and do is Alberta and Saskatchewan The acreage in Manito ERS AND LABORERS AND TWENTY CARPEN. it significantly lower than that of a year ago, but is is easily offset by the increase in the other two western provinces.



Vol. 10, No. 1. July 10th. 1907. Stellarton, N. S., **New Series**

A CHALLENGE TO ACCEPTED AUTHORITIES ON VENTILATION.

At the examinations for mine officials in 1906 a question on ventilation was propounded, which K × 31200 × 4862 = p = 1.8423 1st. split. was rightly answered if the formula of those considered authorities on mining subjects is correct. The veteran of the Board of Examiners and its chairman Mr. Baird takes nothing second hand, and having worked out the problem for himself in his own way refused to accept the formula or the answer as correct. Mr Baird wrote to Mines and Minerals, submitting the question. the way it was worked according to the authorities and the way it ought to be worked out. erals promised to insert Mr. Baird's solution but to be nearer the correct answer to said question. withdrew from that position giving as a reason portion as above we have that to oppose an accepted formula would draw 1st. split $K \times 31200$: down on the paper a diluge of correspondence. Mr. Baird at first thought of asking the Record to publish the full correspondence but concluded it might be more decorous to submit only the two communications he sent bearing directly on the working out of the questions. In submitting the question and Mr. Baird's answer we are authoriz. Then 2.69862 x 48700 eq. 131422 units of work. ed to challenge all and sundry, the whole mining fraternity in short to prove that Mr. Baird and not the authorities are in error. If Mr. Baird is right, and the Record does not say he is wrong, then there is not so much in splitting the air as very many mining men imagine, Mr. Baird's first answer is not so well worked out as in his second letter therefore we give both:

Ques .- "If 30,000 cubic feet of air is being produced splits, the first being the dimensions given above, the second 1500 feet long, 8×7 ft., the third 1800 feet long 9x6 ft., the power remaining the same.

Ans .- "Value of K .00000001. We have first :--

$$K \times 31200 \times 750^{9} = p = 4.3875$$

4.3875 x 30000 = 131625 units of work for 3 splits. then $3\sqrt{\frac{131625 \times 150}{\text{K} \times 130200}} \approx 69750$ cub. ft. ans. (as accepted) power remaining the same.

The writer objected to receive such an answer as correct, however it was proven that such formula and answer were in print by several authorities on ventilan, Mines and Minerals included, and your humble want had to acknowledge under the circumstances it such answers be received, with the understanding lacours, sydney and Mahon, beginning July 23rd, 1997.

An Examination for granting Certificates of Competency to Managers and Overmen, will be held at Stellarton, alexand, alexanding lacours, sydney and Mahon, beginning July 23rd, 1997.

All applications for Examination and coccessary tections in the hands of the Sewertsy, at Halfax, not later than July 12th. To prove the question it is necessary to work out output that will pass in each of the scalitz. By a supplication to the Leed Board, and a supplication to the Leed Boar t'on, Mines and Minerals included, and your humble servant had to acknowledge under the circumstances that such answers be received, with the understanding if a correct answer to the question were given by any candidate that he be allowed also full marks.

the quantity that will pass in each of the splits. By

proportion we find quantity of air is 19440 feet in first split, 28420 feet in second split and 21870 ft. in third split. Therefore we say :

$$K \times 31200 \times 486^2 = p = 1.8423$$
 1st. split.

a = 40

K x 45000 x 507.5% = p = 2.0696 and, split. 56

K x 54000 x 4052 eq. p eq. 1.6402 3rd. split.

1.8423 + 2.0696 + 1.6402 eq. 5.5521 total pressure. Use av 555 ÷ 3 = 185 gives 129000. Again 5.5521 X 69750 eq. 387147 units of work to produce 69750 cub. ft Mines and Min- By calculation I find 48700 cub. ft. of air in the 3 splits

1st, split K x 31200 x 3392 eq. p eq. .89638

40 2nd. split K x 45000 x 3542 eq. p eq. 1.007

3rd. split K x 54000 x 2822 eq. p eq. .79524 54

2,69862

Or more clearly worked: We have first Kx31200x75² eq. 4.3875 pres. and px30000 eq. 131625 units of work, The next step is to find the power to produce 30000 ft, of air through the splits.

Mr. Baird's The relative potentials : 3 v a 1st. split; 3 v 40 eq.

1.2706 2nd. split; 3 V 45000 eq. 1.5744 3rd; 3 V 54000 Total 4.2736, Then 1.2706x30000 ÷ eq. 1,4206. in an airway 1200 feet long 8 x 5 ft., how many cubic 4.2,36 eq. 8919 cub. ft. 1,5744x30000+42736 eq. feet would be produced if the air were split into three 11052 cub. ft. 1.4286x30000 ÷ 4.2736 eq. 10028 cub. ft. Then we have Kx31200x2232+40 eq. .38788, K45000x197.32 eq. .312, K54000x1852 eq. .34484.

> Total p. eq. 1.0447×30000 eq. 31341 units of work. Then $\sqrt[3]{31341} + 131625$: $\sqrt[3]{131625}$:: 30000: 27938 cub. ft., power remaining the same, or

³ √₃₁₃₄₁: ³√₁₃₁₆₂₅:: 30000: 48400 cub. ft. fair. 1 consider 27938 cub. ft. might be taken for answer

MINING EXAMINATION.

E. Gilpin, Jr., Secretary Board Examiners,

MARITIME MINING RECORD.

The MARITIME MINING RECORD is published the second and fourth Wednesday in each month.

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

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R. DRUMMOND, PUBLISHER. STELLARTON. N. S.

JULY 10

********** COAL MINING IN NOVA SCOTIA

Though the general public, owing to the greatly enlarged production of coal, might come to the conclusion that there are many more collieries in Nova Scotia than in the earlier history of the coal trade, the opposite is really the case. Before the Duke of York's monopoly was broken in 1857—fifty years ago -there were six mines in operation in three counties of the province, Pictou, Cumberland and Cape Breton, whereas between that time and ten years later returns were made from no fewer than thirty-six mines, in six counties, Cumberland, Pictou, Cape Breton, Inverness, Richmond and Victoria. A few years ago what seemed to be substantial reports were spread around that coal seams varying in thickness from two to six feet had been discovered in Antigonish by Mr. McBean and others. These claims were modest compared with some put forth forty years or so ago, when it was given out that in that county seams had been discovered from two to nine feet in thickness. In 1866 there were five mines in operation in Cumberland county: Joggins, Victoria, Macan (spelled one c in all the earlier references), Chignecto and St. George. In Pictou the Albion (two shafts), Acadia (three slopes), Nova Scotia, Bear Creek, German, Montreal and Picton, and McBean were all in operation in 1867. In Inverness, in the same year, the Port Hood slope was down three hundred feet, and there was little doing at Chimney Corner. In Victoria county two collieries, New Campbellton and Black Rock, were working. In Richmond county, in 1866, the Richmond and Seal Bay coal mines were worked. closed down in 1867. Then, as now, for the number of its mines, Cape Breton took first place. Here is a long list of mines working in 1866: Matheson (Bras d'Or)), Sydney, Ingraham, Lingan, International, Caledonia, Little Glace Bay, Acadia, Clyde, Schooner Pond, Block House, Gowrie, Mira Bay, and South Head, to which there was added in 1867 the Victoria and the Collins. The deepest shaft at

that time was the Albion, 840 feet, and the longest slope, Lingan, 600 feet, the next largest being the Acadia, 550 feet. The Albion took first place, in three years, as a producer, Sydney Mines second and Block House third. While it was in operation the Block House, considering its disadvantages, was a wonder. If it had a short life it had indeed a merry one. If I have said elsewhere that John Rutherford was the first inspector of mines, that is scarcely correct, as from 1858 to 1860 Mr. J. M. McKeagney acted in that capacity. The Crown Lands Department took charge of the mines in 1861, until 1864, when the Department of Mines was formed, and the office of inspector re-established. Mr. Rutherford, as inspector, made his first report in 1866.

Prof. How, in his Mineralogy of Nova Scotia, says that the productive coal measures in Nova Scotia are found in Hants and Colchester as well as in Picton and Cumberland in Nova Scotia proper. As yet neither of these counties has contributed to the expansion of the coal trade. Though a little coal has been mined in Colchester, it is not yet a coal producing county. In 1866 there was as big a license to search boom on as in the nineties, wher one could not stick a pin point, on any part of the mines department maps, for the coal producing counties, which had not been

The number of applications in 1866 for search rights was close on four hundred. In 1858, the first year of the working of the "New Mines" under the act, only 2,325 tons were raised from eight of these, while the General Mining Association raised 224,000. The G. M. A. was the largest producer until the sixties, when the new mines became the chief factors. There was a check to the progress of the trade in 1866, due to the abrogation of the reciprocity treaty entered into in 1854. This loss of market had the effect of stimulating the search for new markets, and, gradually, these were found. The United States as a market cuts a small figure at the present time. Forty years ago there were a sufficient number of collieries opened to supply the demand of the present time, had such existed. In an article, in the Transactions of the Nova Scotia Institute, Mr. Haliburton says: "Nova Scotia collieries now opened, or in preparation, would raise in five years five or six millions annually, and the supply could gradually be increased to meet the demand, however great." In view of this statement those of us who are inclined to be a little cocky and clap our own shoulders, on the wonderful present day strides, should feel quite numble. There was no demand; that was the trouble after 1868, and was the chronic ailment until late years. The famous Ford seam, or perhaps main seam, has ever had the characteristic of varying in height. Some late measurements placed the thickness at over

forty feet. In 1853 Mr. Poole, the then agent of the G. M. A., sent a continuous section, of the main seam, to New York, which showed a thickness of 38 feet 6 inches. Twelve years later a section was sent to the Dublin Exhibition, the height, or thickness, of which was labelled 35 feet 6 inches. In 1867 Mr. Hudson sent a column 37 feet 10 inches in height, thus beating his immediate predecessor and coming ten inches within reach of Mr. Poole's speci-

To hear some people talk, these days, one is almost inclined to believe that in the sixties, and subsequently, coal could be had almost for a song. Considering the much bigger wages now, and the greatly increased cost of materials, coal is not any dearer now than then. The price of coal at the collieries, or say f. o. b., was, in the sixties, \$2.00 to \$2.50 for round, and about \$1.00 for small. In these days the Albion mines and Sydney mines coal commanded the highest price. But a miner could not earn on an average a dollar for every three he can earn In 1867 the royalty from coal was only \$52,000. Previous to 1865 royalty was payable yearly; it is now payable—I won't say paid—quarterly. In the old days they made as many new discoveries—that never were visible in day-and told as many stiff yarns as the people of the present. For instance, we are told that the Acadia seam is 20 feet in thickness and that it is one of the finest seams of coal in the world. "With the exception of three inches of fire clay, there is no foreign matter of any kind, no impurities, and that the three inches of fire clay are no disadvantage but afford a parting for the miner to hole in." If there is 19 feet 9 inches of clean coal, how is it that an ordinary prop reaches from pavement to roof? We are always learning.

And then there is the reference to the Sea Bay coal of Richmond. This coal has one, thousand three hundred and seventy million only, of the characteristics of the Mullins, which has been lost and found and lost again and again found. The six foot Sea Coal Bay seam has been lost, and, diligent search for some years, has not discovered its hiding place. Of this coal it was said in 1864: "The large bed of coal on which the government received an unfavorable report some years ago, has been explored by means of a shaft to the depth of 55 feet, and at that depth the lead is found to improve so much that at least six foot of good clean coal may be mined from it," and "there is another important feature in this coal field. The beds are found to improve greatly in their quality the further they are followed along their strike to the south-west and also to the dip."

When the oil fields of Pennsylvania, Ohio and Ontario give out then may come Antigonish's opportunity. If there is not coal in that county there is, there seems no doubt, large

areas of oil shales. Mr. J. C. Campbell, an old time geologist, says: "The fact that the centre of the Antigonish basin is occupied by highly bituminous lime stone overlying the oil coal and oil shale beds, may possibly indicate that the whole group is upper devonian, or lowercarboniferous, rocks which are not known in this country to contain coal beds of any value. The bituminous beds appear to be divided into two groups, the lower of which appears to be about 70 or 80 feet in thickness, 20 feet of which may be regarded as good oil shale, including five feet of curly cannel rich in oil. Of this great bed of oil batt, about 30 feet in all probability will yield from 20 to 25 gallons to the ton. The five feet seam of curly cannel will yield at least 40 gallons crude oil to the ton, and the fifteen feet of the best section of the oil batt will yield at least 20 gallons to the ton, and taking this as worth 25 cents a gallon at the shipping port there are, in all, three hundred and seventy million, five hundred and thirty-three thousand, three hundred and twenty-five dollars' worth of oil which can be obtained from 20 feet in thickness of strata underlying 2,000 acres of land-out of 18,000comprising a basin underlaid by at least fifty feet in thickness of beds rich in oil." And yet they tell us that word painters spring to being with Cobalt. Why, man alive, our J. Campbell could beat them all. No wonder Antigonishers are proud. Multiply the three hundred and seventy millions by nine, the whole field being that many times more than 2,000 acres, and then multiply by two and a half, the thickness being that much greater than that on which the calculation was based, and we have eight thousand million dollars' worth of oil in Antigonish, the price being 25c. a gallon. Suppose we put the price at ten cents a gallon, in order to meet Standard Oil competition, there is still oil in Antigonish to the value of three dollars. Antigonish county should be able to sell municipal bonds at fancy prices. She has a bewildering asset. Do you grasp it? \$3,370,-000,000! I do not believe one-quarter that amount will ever come out of Cobalt. Some of those who were with us in the sixties must have been "great altogether" in framing pros-

Peat has not, so far been declared a mineral; if not a mineral it is the next thing to it. We have peat in Nova Scotia. Hitherto it has not been cut, even for fuel, but it may become of commercial value in the future, as a process has lately been discovered of extracting alcohol from it. Anything that contains alcohol, generally has a run upon it, and this may turn out the case with peat. Peat is said to exist in Halifax, Guysborough, Kings, Inverness and Victoria counties. As to the depth of the bogs and the quality of the peat, nothing is known,

- Rubs by Rambler.

Looking over some clippings the other day, which I had set aside as likely at some time to form texts on which to offer remarks, I came across the following written for the Montreal

You would think that the eternal darkness of the pit would make men miserable and Elorose. Instead, the men whose lives are spent in perpetual gloom are bright, light-hearted and eminently content with their lot. In winter time they see the light of heaven only on Sundays; for during six days it is dark when they go to their work and dark when they return; that is -if they return; for from the moment they step into the cage that is to take them down into the dark mine they put themselves within reach of death in a million

No doubt the paragraph was written from the best of motives-to excite sympathy and consideration for those who toil for their living in the bowels of the earth, to produce fuel to keep the wheels of machinery in motion, and to supply fire and heat for the comfort of householders, not to further specify the objects to which coal is indispensable. There is no doubt that coal mining is a hazardous occupation, but it is not the most hazardous, and, after all is said, it has its compensations which makes it less arduous than many other occupations. It is rather an exaggeration to say that men who go down into a mine "put themselves within the reach of death in a million ways." fact is that the dangers to which miners are exposed could all be expressed in two figures instead of five, and one figure would suffice for the common dangers which are of most frequent occurrence in a mine. One scarcely thinks of pitying a passenger as he steps on board a train, and yet there have been innumerably more deaths from accidents on railways in the United States alone the first six months of 1907 than in all the coal mines in the world during the same period. I admit, of course, that there is no comparison between the number of passengers carried on trains and the number of men employed in coal mines. It should not, however, escape observation, though it is not generally so accepted, that accidents on railways, and even fatal accidents in the forest, are more numerous in proportion to the numhers employed than in the mine. What I chiefly object to in the paragraph quoted is the fiction about the miners never seeing the light of the sun, or rather the light of heaven, except on Sundays. The writer of the paragraph should not have delved into ancient history to

prove that present day conditions are lamentable. The diligent miner who works six days a week—and how few we have of them—does not, it is true, see the morning sun in the winter months, but ten to one he sees the afternoon light of heaven every day in the week. The lot of the miner these days is not so hard an one after all, and the miners do not wish the people to run away with the idea that it is about the last calling on earth one would select from choice. Not by any means. Many, indeed I may say a majority of miners, are in love with their calling and would not "swap" it for another, even a more lucrative employment-if there is any such at this time.

Whatever coal mining may have been in the past and in other countries, today mining is as respectable, comfortable and as well paid employment as any in which strenuous manual labor is required. If in other countries, fifty years ago, miners were not the best behaved of citizens, today in Nova Scotia, as a whole, they are as good citizens and neighbors as those of any other class or occupation. If fifty or sixty years ago the miner was rather severely dealt with, kept down, there has been a terrific rebound, for instead of being down it is not far from correct to say that in many ways he is on top. He is pretty much his own master and that is about equivalent to saying he does pretty much as he likes, works when he will, hard or easy as he wills, and plays when he wills, and this he wills to do at short intervals. In sober truth a miner's work may be arduous, but it is not disagreeable, nor is it more hazardous than some other occupations which have in the past not been accounted as among the dangerous.

In Pennsylvania, so I notice in the Coal Trade Journal, a use has been found for the huge refuse banks which disfigured the surface at the anthracite mines. Says the Journal:

"A number of years ago there was much comment relative to the great culm piles throughout the anthracite region, and much speculation was indulged in as to whether they would ever be utilized or disposed of in any way. Now the comment seems to tend in the other direction, and it is suggested that the culm piles may soon disappear. portions of them are being screened out rapidly and shipped to market, while the unavailable material is being, in a number of cases, turned back into the mines and used to fill up abandoned gangways. The material thus put back into the mines can be packed in very solidly, as the head of water under a pressure of several hundred feet has a great deal of force. After the gangways have been filled up for a number of years, the material becomes sufficiently compact to allow of the intervening columns, which once formed the walls of the

gangways, being mined with as much safety as operations are conducted elsewhere in the mines. This, of course, adds to the available tonnage of hard coal, and the method will be made use of as time goes on and the more accessible coal becomes scarce.'

In the seventies and eighties, and well on in the nineties, big banks of slack coal might be seen at the Nova Scotia pits and piles of it along the railway tracks. All this has been changed within the past ten years. Instead of being a drug on the market slack coal is in brisk demand, and whereas it was worth only about twenty-five cents twenty-five years ago, it is now worth off and on about two dollars a ton, and scarce at that. Indeed, twenty years ago, at many of the collieries slack coal was dumped on the stone heaps as valueless. Indeed, it was to the operators a bill of expense The experiment of sending back into the pits, as in Pennsylvania, was never tried; it was disposed of to more advantage. At Springhill in the late seventies they tried to find a market for slack by washing it. The washer of those days was of the primitive sort. It consisted of troughs, leading from the rotary screens to pockets three or four hundred feet distant. The coal was led into the troughs, and the pit water utilized to carry the coal to the pockets. The stone and sediment was caught by small pieces of wood laid in the troughs at right angles, and was shovelled out at intervals. It was by no means a perfect washer, but its product found a ready sale, where the unwashed slack was unsaleable. Modern washers are in operation at several of the collieries. The slack from these is used chiefly in the production of coke, for which at present there is a great and increasing demand. Springhill slack is in good demand for lime burning purposes.

Some people run away with the idea that a reason why there are so many people poor is that there are so many rich. Poverty, they say, is the result of an unequal distribution of wealth. Poverty, in the ordinary acceptance of the word, is due to nothing of the kind. In a majority of instances it is due to sloth, to self-indulgence or thriftlessness. In the minority of cases only is it due to misfortune, or to circumstances over which the povertystricken had no control. The cry of a section of the Socialists is for a redistribution of wealth. The game would not be worth the candle. It would, too, be an everlasting job. There would require to be a redistribution once a year, if not once in six months, and then even the last state of some would be worse than the first. If it is true that "the poor you have always with you"-mark you, I do not say it is true as the phrase is generally understoodthen it must follow that the rich we shall also

always have with us. I suppose some imagine that if the wealth of the rich-of the Carnegies and the Vanderbilts and the Fricks-was made to go round our pockets all would be bulging out with money. Not a bit of it. An equal division would add very little to the wealth of the people as a whole. Britain has many rich men-indeed, for its size Britain is the richest country in the world. Britain has many peers and many paupers. Suppose the peers of the land and the merchant princes were forced to divvy up with the common people, what would follow? How much would each person receive as his share of this novel sort of "spoils system''? This question was answered in the course of an interesting paper by Mr. W. J. Harris and the Rev. K. A. Lake on the "Estimates of the Realisable Wealth of the United Kingdom, based mostly on the Estate Duty Returns," which was read before the Royal Statistical Society. Allowing for the deduction of certain government property, which could not be reckoned if the national debt were included, the total wealth of the United Kingdom was given as £8,950,000,000, which sum, if distributed equally amongst the population, would allow £207 for each person. On the basis of Mr. Money's calculations, made some time previous, it was estimated that, as wealth is really distributed, one-seventieth of the population owns far more than half of it, and that onethirtieth of the nation enjoys more than onethird of the entire income of the United Kingdom. The estimates formed by the three gentlemen in question are interesting as showing the country's wealth. But what would £207 for each person produce per annum if safely invested? If placed at a fair rate of interest it would give £7 per head per annum: 2s. 8d. per week, or about 4d. a day-rather a poor old age pension upon which to retire. But if such a divide really ever did take place, there would be many strange romances, ave, and tragedies, too. Some men would squander their money in a week; the "fast set" would have to give over bridge and exercise their brains, provided they had any; and the Socialists would perhaps find that a "fair divide" was not after all such a sure way of solving the social problem as they at one time imagined. The problem of wealth is almost as big a problem as that of poverty. The poor may not be getting poorer, nor the rich richer. There may be fewer poor today than formerly; there certainly are more rich, for, whereas fifty years ago there were not more than fifty millionaires (dollar millionaires) in the whole of the States, and their combined fortunes did not exceed £20,000,000, or one per cent. of the aggregate wealth of the nation, in the space of 34 years the combined fortunes of this class amounted to £7,300,000,-000, or 56 per cent. of the national wealth, while today 1 per cent. of the population owns practically 90 per cent. of the entire wealth of

the nation.

. . From the fuss made over the passage at Ottawa at the last session of the Industrial Disputes Act, one might be led to suppose that this is the first time a measure of the kind was introduced into Canada. To hold such a view would be erroneous. Nigh a score of years ago the Nova Scotia Legislature passed a disputes bill, which, if anything, is much more drastic than the Lemieux bill. Of course it is not so comprehensive, in a sense, as it only deals in disputes between miners and their employes. It is rather curious that some mine operators rejoice at the passing of the Disputes Bill who ignored wholly the benefits possible from an application of the "Miners' Arbitration Act." As between the two bills, and as applied to mining disputes, I have no hesitation in saying that given the ghost of a chance the Nova Scotia bill is better than the other. Indeed, I claim for the Nova Scotia act that it was the first act of the kind that was passed in a civilized country. It was, if I am not greatly in error, enacted earlier than the New Zealand act of which we are continually hearing so much. The Nova Scotia act had very different treatment in its infancy from that given the federal bill. It was promoted by the workmen, and probably on that account was looked upon with suspicion by the operators. The first attempt to test the merits of the act was a failure, for the application of the men to the commission was set aside by an application for certiorari. When this was done the workmen did not follow the matter further. Later the act was tested on application of the Dominion Coal Co., if I am not mistaken. Both sides in this instance were agreeable to the differences between them being left to arbitrators. award did not go in favor of the men, and of course fell into a little disfavor. And yet the decision of the board, or rather the reference in the first place to arbitrators ensured peace for a year. The company through the board assured the men that an increase in wages would follow an increase in profits, and the increase came. Though the decision was not in favor of the men they abode loyally by its terms. In the seventeen years during which the act has been on the statute book, these two were the only occasions on which the act was invoked. Luckily in the past twenty years, at the great majority of our mines, there has been no necessity for any arbitration act. The differences that arose were never so serious that they failed of settlement by amicable conference. So far as mine workers are concerned, I cannot perceive where the superiority of the federal Disputes Bill over the Miners' Arbitra-tion Act comes in. The preliminary proceedings are to all intents and purposes the same, and the board proceeds to work in the one case on similar lines to the other. There is a little

difference in the constitution of the boards. The federal act calls for three arbitrators, the local act for five. If in the multifude of counsellors there is wisdom, then the advantage lies with the latter. In one respect at least I think the local act has an advantage. If the commissioner is of opinion that the matter complained of is not a matter for arbitration he may stay proceedings. The Department of Labor on the other hand cannot well refuse to put the act in operation on application. The refusal of the commissioner to refer a mat'er to arbitration would be a decision in favor of the defence, and would of course only give that decision when he was convinced that the side making the application had no case. There was nothing to hinder the Nova Scotia Act of 1890 being improved and amended if so thought desirable. The federal act comes from a bigger legislative body and perhaps on that account has a bigger prestige. In order to show that there is no material difference in the scope of the acts let me give two or three sections from the Nova

3. When any dispute arises between the employer and a majority of the employed, or the majority of any division, in respect to wages, the employed shall not strike or abandon work and the employer shall not reduce the wages, dismiss or lock out the employed, or any division of the employes, or a majority of the employed, or the majority of any division, makes complaint in regard to the matter causing such dispute, in writing to the commissioner until such matter is finally determined as in this chapter provided.

4. A certificate under the hand of the chairman and secretary of a meeting duly calle! that a majority of the employed or of any division attending such meeting was in favor of arbitration under this chapter of any such dispute, shall be sufficient complaint to the commissioner.

(Note.—I consider this section preferable to a similar section in the Disputes Bill, which requires a statutory declaration in addition to the certificate of the chairman and secretary.)

5. The commissioner, upon receipt of such certificate, or upon receipt of complaint from the employer, may summon the agent of the employed or of the division, or of the employer making such complaint, to appear before him and adduce evidence in support of such complaint, and upon such evidence the commissioner shall determine whether such matter of dispute should be referred to arbitration or not.

7. When the employer and a majority of the employed or of any division apply jointly in writing to the commissioner to settle any such dispute by arbitration the commissioner shall forthwith refer the matter to the board. (Note the circumlocution here.)

8. The board shall consist of five persons, two of whom shall be appointed by the gover-

nor in council, one by the agent of the employed or division who are the other party to the dispute and one by the persons appointed by such agents.

by such agents.

10. The board may compel the attendance
before it of witnesses by subpoene, etc., etc.

The local act consists of 32 clauses, a suffic-

ient number.

The year 1873 was a remarkable one in the history of the coal trade of the provinces, indeed it may be said of the whole world that prices ruled very high. That year is spoken of as the year in which the British miners smoked cigars and drank champagne. Trade was very brisk in Nova Scotia, and it was no unusual thing for a man to earn \$100 for a month's work in the mine. That is no unusual wage now, but it did not come every month at that period. In 1873 Nova Scotia gave Britain a little tit for tat and managed to send across some seven thousand tons of coal. That year also Nova Scotia made big shipments comparatively to the West Indies, the quantity sent being 54,000 tons. The year is also to be remembered, sadly, as the one in which the explosion of the Drummond took place. About two months previous to the explosion Mr. Richardson said to Mr. McLeod, in whose place the fire, resulting in the explosion, originated: "There must be no more powder used in this level," as the day before the low level had caught fire from a shot. Robert McLeod replied: "I will not work in it then," and because Mr. Richardson was not empowered to give increased price for wedging, powder continued to be used, and the result we all know. What a pity the order to use no more powder was not enforced. The explosion of 1873 was the greatest that had occurred up to that time on this side of the water, but not the greatest since, as both in the United States and the provinces there have been more disastrous ones. The Drummond explosion will, however, always rank as one of the most appalling. No great outbursts of flame or smoke gave indication at the Ford pit or at Springhill of the terrible havoe that had been made in the mine. At the Drummond the smoke rolled out in great volumes, and there were after explosions far more terrifying than the first, though they were not so disastrous to human life. One particularly sad thing about the Drummond explosion was the sacrifice of the lives of a band of noble volunteers who attempted rescue work. After the Drummond explosion there was no demand for more rigid mines regulations. The men at that time were not organized. After the Ford pit explosion there was a demand for improved mining legislation, and such was secured through the instrumentality of the P. W. A. This legislation did not of course stop all sacrifice of life, but there is no question as to its having rendered work in the mine more secure and more comfortable.

The Nova Scotia Steel & Coal Coy. in the begining of the year set apart a sum sufficient to build about thirty miners cottages, but subseq-uently abandoned the idea of building so many, and concluded to build four or five only. Instead of building on its own account the company thought it best to afford the employees an opportunity of building for themselves. In some cases the company not only gave free sites, but to men who were industrious and showed a disposition to become their own landlords they offered to advance funds. If a man had saved a hundred or two hundred dollars and expressed a desire to build a house the company would advance six or seven hundred dollars. If he had saved four or five hundred then an advance of say nine hundred dollars would be guaranteed. A number of the men took advantage of this most generous offer, so that at the present time it is a toss up as to whether Sydney miners or Springhill possesses the largest number of houses owned by workmen. And it is worthy of note that when the company has advanced money it has allowed the workmen to prepare his own plan, the company reserving the right to modify it only in the event of the plan being a monstrosity.

MINING AS A HAZARDOUS OCCUPATION.

That mining, as was stated in The Record a while ago, is not the most dangerous of occupations is borne out by statistics compiled by the Labor Department. No one thinks of pitying the lumberman, or saying that as he lifts his axe, to go into the woods, he takes his life in his hands, and goes to face dangers seen and unseen. In the public mind lumbering is not considered a peculiarly dangerous occupation, and, yet, judging by the fatalitie, it is the most dangerous of all. The number of persons engaged in lumbering in Canada is given as 16,438. In March and April of this year 18 persons met death by accidents in the woods. A life was lost lumbering for, say, every 900 men employed. The number of men engaged in mining is put down at 23,898. In March and April of this year there were 21 mining fatal accidents, or one life was lost for every 1,136 men employed. One would imagine that if any class were immune from serious acci-dents they would be farmers. Farming is looked upon as the healthiest and the least hazardous of occupations, and yet what is the fact? Thirty-eight persons engaged in agriculture lost their lives in March and April from one cause or another. Of course, as there are many more engaged in agriculture than in mining, the fatalities do not show so large an average; still the loss of life was one for every 1913 persons employed. The fact is dangers lurk everywhere-in the forest as on the farm, and on the farm as in the mine.

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lar, and ed, Since g six yrs. has been s at Sydney Mines were demolished a stranger visiting Sydney Mines and seeing the neat houses of varying and chaste styles of architecture would not for a moment suppose that he

was looking on a coal mining village. The Nova Scotia Steel and Coal Co. are with-The Nova Scotia Steel and Coal Co. are with-out doubt wise in their day and generation and have set an example which some other companies might advantageously follow. The company at Sydney No. 3 has given free sites, without condi-tions for churches, chapels, and manses to any denomination applying. In some localities the coal companies have exacted their nound of flesh, coal companies have exacted their pound of flesh from even the churches, and sought to make the churches believe that the sites were cheap at twice the money. I have not the slightest doubt but that the bread which the Nova Scotia Steel & Coal Co. has cast upon the waters will return in Coar too has case upon the waters will return in many ways, and so will it in the case of any ot-her company which has been equally generous, or

AROUND THE COLLIERIES.

The Eastern Coal Co. is using an undercutting machine in driving the deeps.

The haulage ropes were changed on the new bank-head at Reserve on July 1st.

Dr. McKeen of Glace Bay who has been on the sick list for two weeks is about again.

Strathcona and Minudie collieries are working steadily, getting cars in abundance.

The bridges on the Joggins railway are being repaired, and the railway itself put in good condition.

Shot lighters are now employed in all the collieries of the Dom. Coal Co. This ensures greater safety in shooting and a better quality of coal.

Springhill is surely going to test the Disputes Act as the second board has been called for. Two cases will go before this one as before the first.

The Dom. Coal Company's fire inspection committee, composed of six mine managers made their quarterly inspection of all mines last week.

A new slope is being sunk near the shore on the Joggins areas to reach the sub marine coal. The work of driving the slope will be pushed as rapidly as possible.

Much sympathy is felt for Angus R. McDonald, Underground Manager Dom. No. 6, whose eldest son Charles was killed by a runaway trip at that colliery on the 4th. inst.

The pillar work has been commenced at Inverness colliery. This is the first work of that kind, as the company wanted to have more than the mining law limit of strata before drawing pillars.

The Dom. Coal Co, intend installing the Draeger life saving apparatus at their collieries. By its use men can in coses of emergency work in the thickest smoke or gases. A sample has already been tried.

The postponed meeting of the Conciliation Board took place on the 3rd, inst, in the new Courthouse, Springhill, Both parties have been busy strengthening their line of defence. The final outcome will be of interest both to capital and labor.

Under Mr. Duggan's directions a novel plan of Dominion Coal Co's areas, showing their relation to each other, the several outcroppings, etc. has been prepared. It is made of wood, one layer representing a seam on top or a layer representing another seam. It is a work of art, and must have taken much time and care to prepare. The plan was made so that even a judge would be able to understand what it was all about, in the event of the law suit between the Steel and coal companies coming to a head,

The output for the blast furnaces of the N. S. S. and Coal Co. for June was 6000 tons. This quantity was only exceeded on one previous occasion.

The new bank head at the Reserve is all that a bankhead should be. It is as clean as a whistle and is to be kept so. There is to be no oil spilled on the floor, nor any refuse material allowed to accumulate. The walls are white washed, and the building is well supplied with electric lights.

The new machinery at the Reserve bank head was set in motion on Tuesday, and worked in a most satisfactory manner. There was only one small hitch which was soon remedied. It is very seldom that new machinery work so nicely as did that at the Reserve the first day of the connections.

The 29th. of June and 1st. of July was devoted to horse racing and other sports, at Springhill. The mines were idle on these days. Springhill is sporty, but it is to the credit of the community that the drunk man was the exception, which goes to prove that sobriefy is the rule on all occasions in the town.

Robt. Robson the other day went to put down a bore hole near Point Aconi, on the only piece of the N. S. S. & Co. Coy's property which had not been perforated by trial pits and from this was woven a beautiful story about the intention of the Company to start a new mine to be known as Sydney No. 6.

The Italians lately imported by the Dominion Coal Co. are turning out to be the most desirable kind of loaders. Some of them earn between two and three dollars a day, and are always at their posts. Newfoundlands also make good loaders though perhaps not so zealous as Italians. Of course there are Italians and Italians and it is the latter kind the Dominion Coal Co, has get hold of.

Sinking of the two slopes at Sydney No. 4 is proceeding in a matter of fact and without noise manner. It is not the intention to make No. 4 a producer this year. The pit is being sunk more for an emergency pit than for any other reason. Of course if there is a big rush for coal this fall, that is an extraordinary demand, No. 4 may be called upon to add to the output, otherwise development work alone will be prosecuted. By the time there is railway connection with the main line of the company their will be a fair sized bank of coal. Sydney No. 4 will have some things peculiar to itself which are secrets as yet, but this much may be said that in the pit their will be meither horses, nor air motors, nor electric motors nor endless haulage, nor tail ropes. There will be an original system of haulage, at least original to Nova Scotia Mines.

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June, 6, 07.

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Railway Office, Moneton N.B., June 27, '07, D. POTTINGER. General Manager

The Dominion Coal Co. is making on some days splendid outputs and on other days outputs that drag the management to the verge of pro-facity. The normal output should be from fourteen to fifteen thousand tons per day. On cer tain days, these are the days after pays-it falls almost fifty per cent below that. On several days in June the output which could well every day be fourteen thousand tons, was a little over eight thousand. Pay days and holidays play the mischief with output calculations.

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SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

COAL. Coal Lands may be purebased at 80 per eare for soft coal and 820 for authracits. Not more than \$25 acres can be acquired by one individual or better than \$25 acres can be acquired by one individual or betted on the grows output. Get encounter to d 20 pounds shall be collected on the grows output. Get expenses of the per annum for a tend which, and from \$50 to 80 per annum for a company of the per annum for a tend which, and from \$50 to 80 per annum for a company of the per annum for a company o

A free miner, norms success 1 is 10 to 10

The patent provides for the payment of a royalty of 21-2 per cent on the Paper mining claims generally are too feet square: entry fee 85 renewable years. A free minier may obtain two feases to dreige for gold of five miles each feet of the part of twenty years, renewable at the discretion of the Minister of the Interior of twenty years, renewable at the discretion of the Minister of the Interior of twenty years, renewable at the discretion of the Minister of the Interior of twenty years, renewable at the discretion of the Minister of the Interior of twenty years, renewable at the discretion of the other of the Interior of the Minister of the Interior of the Minister of the Mini

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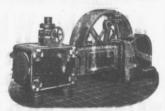
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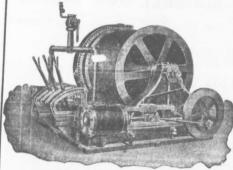
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				Read Up			
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L 11 10 8 11 16 A 11 35	L 3 66 S 4 00 A 4 13 L 4 18 F 4 36 S 4 435 F 5 10 F 6 23 S 6 53 S 6 53 S 7 17 A 7 20 P m	F. TI PPER JUNCTION PORT HAW KESHERY PORT HASTINGS TROY CREIGNISH JUDIQUE CATHERINES FORD PORT HOOD GLENOYE MABOU GLENDYE BLAYK RIVER STRATHLORM INVERNESS	ASLAFSFSFLASSSFSL	11 00 10 56 10 42 10 37 10 15 10 15 10 60 9 42 9 29 9 10 8 55 8 25 8 15 8 00 7 47 7 30 4 m.	8	3 35 3 97 3 10	

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