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AUGUST 22nd, 1906

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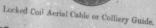
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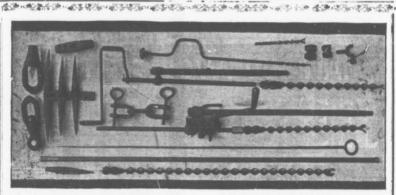
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| 69 Mixed for Pictou Landing | 7.4 |
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| -TRAINS ADDUCT | 21.15 |

| 66 Express for Pictou | 21 |
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| TRAINS ARRIVE AT STELLARTON | 21 |
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| 78 Mix ad from Tourist | |
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| 18 Express from New Observed | 7 |
| | 7 |
| 55 Mixed from Torres | 6 5 7 7 |
| 28 Mixed from New Classes | - 8. |
| 27 Mixed from Pictou — — — — — | 10, |
| 56 Mixed from Mulgrave | 10. |
| 19 Express from Halifax and St John | 13. |
| 139 Mixed from Picton 85 Express from Halifax St. John Gust. | 10. |
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Vol. 8, No. 4. Stellarton, N. S., AUGUST 22nd. 1906 New Series

COAL DUST, ITS RELATION TO COLLIERY EXPLOSIONS, AND HOW TO DEAL WITH IT.

For the RECORD by WILLIAM OLIVER, Kings Medallist in Coal and Metal Mining. New Seaham, England.

(CONCLUDED)

The principal facts which appear to have been more or less conclusively demonstrated by the results obtained in the experiments with dust from Seaham Colliery may be summarised as follows:

1. Several of the samples of dust exhibited signs of having been effected by heat, being slight in some instances and considerable in others.

2. The two samples taken from the floor and off timbers at the curve in the stone drift, in proximity to where the shot was fired at the time of the explosion, as also a sample from near the Maudlin Engine, exhibited no signs of having been affecred by heat.

3. The samples exhibited considerable differences in regard to richness in coal, fineness and uniformity in this respect, density, etc., the proportion of coal ranging from about 96 to below 54 per cent in the dry sifted samples.

4 The chemical and microscopical examination did not furnish any data to lead to conclusions as to extent to which the dust may have taken part in the production or augmentation and transmission of the explosion at Seaham Colliery, but there was evidence of the existance of partially burns dust at a number of points very distant from each other and in different directions in the

Sir, F. Abel in concluding his report said it must be admitted as possible that with the large volume of flame and the great disturbing effect of a blown out shot, as the initiatory cause of the ignition of dust, and its suspension in the surrounding air, such inflammation may, in the complete absence of fire damp, be propogated to a greater distance than the results of small experiments would warrant one in assuming. But it can scarcely be maintained that the air of a mine in which the coal gives off gas at all, can be, at any time, entirely free from fire damp; and as the existence of very small and unsuspected quantities of that gas in the air of a mine may suffice to bring about the ready propagation of flame by coal dust, and thus to develop violent explosive effect, it would appear needless to assume that coal dust may, in the entire absence of fire damp, give rise to explosions, even of only limited character, in coal mines in order to account for casualities which cannot be ascribed to the existence of accumulations or sudden outbursts of fire

In the year 1891 a Royal Commission was appointed and made its final report in June 1894. The commissioners took a large amount of evidence, but unfortunately the perusal of such evidence shows that a diversity of opinion existed upon the nse of explosives and the danger from coal dust in mines. Twenty one witnesses

were examined directly on the coal dust theory, thirteen of these agreeing that very fine dry coal dust is capable of causing a coal dust explosion in the presence of a blown out shot, and in the absence of fire-damp; the other eight, whilst not admitting coal dust as capable of causing an explosion in the absence of fire damp, are agreed that an explosion of fire damp once started in a dry and dusty mine, was materially intensified and extended by the dry coal dust distributed along the roadways of a mine. The Commissioners summarise their conclusions as follows:

 The danger of explosion in a mine in which gas exists, even in very small quantities, is greatly increased by the presence of coal dust.

 A gas explosion in a fiery mine may be intensified and carried on indefinitely by coal dust raised by the explosion itself.

 Coal dust alone, without the presence of any gas at all, may cause a dangerous explosion, if ignited by a blown out shot or any other violent inflammation.

4. Different dusts are inflammable, and consequently dangerous, in varying degrees, but it cannot be said with absolute certainty, that any dust is free from risk.

5. There appears to be no probability that a dangerous explosion of coal dust alone could ever be produced in a mine by a naked light or ordinary flame.

In March 1893 the Secretary of State requested Mr. Henry Hall to undertake a series of coal dust experiments to include dusts collected from the principal seams in respective mining districts, each seperate dust to be tested as to its inflammability in the seme way as had already been done. The dusts selected were found lodged on the timbers or on ledges underground, or on ledges and above the screens at the surface, and all were gathered by hand.

The phenomena presented by these experiments as they progressed, and a careful examination of the detailed results, warranted the following conclusions:

 That the flame from a blown out gun powder shot in the presence of dry coal dust always ignites more or less of such dust and so increases the burning and charring effects of the shot.

2. That when a large flame, such as that of a blown on the gun-powder shot, or the flame from the ignition of a small quantity of fire damp, traverses an atmosphere containing a very moderate quantity of coal dust, the dusty atmosphere will explode with great violence, and the explosion will continue on and pass throughout any length of such atmosphere, its violence and force increasing as it progresses.

3. That coal dust from several seams in different districts, notably those from Glamorgan, Monmouth, Durham, Lancashire, Yorkshire, and Scotland are almost as sensitive to explosion as gun-powder itself.

 That coal dust is, as a rule, more sensitive to explosion in proportion to its high quality and freedom from impurities. dust explosions more probable and more severe.

plosives is said to be most impressive and convincing, prevent pieces falling from them.

Of the whole of the dusts tested, that from the Albion colliery, Glamorgan, (Aterbare or Merthyr tour foot watering horse roads is by means of a water tub, having seam or upper four feet,) excelled all others in violence one or two plug holes in the ends and sides, or lengths and sensitiveness to explosion, and this seam has the of perforated 11 to 2 inch pines attached to the ends or worst history in the Kingdom, upwards of '600 persons sides of the tub. Haulage roads have been effectually having been killed in it by explosions since the year Indeed throughout the experiments men could not fail to be struck by the great violence and sensitiveness to explosion exhibited by the samples received from collieries with an unfortunate history as regard explosions. It was evident from the experiments that the higher the quality of the coal seam, the more liability there is to explosions of dust, and it is singular that the collected history of explosions in mines in past years show that nearly all sweeping disastrous explosions have happened in seams producing the highest class of coal, such as the Durham Hutton seam, Yorkshire, the air with fine sprays of moisture. Barnsley and Silkstone seams; the Lancashire Ar k for producing a spray is used and the water is given seam, and the South Wales Aberdare 4 feet and Blatl-Vein. Then we have the experiments of Mr. Wm. Gatloway, whose name will always be prominent in this may ter, and from his experiments we have good grounds in pressed air from any plant in the locality. The water is accepting that certain coal dusts will render an atmosphere explosive, even in the absence of fire damp, and pipes placed at intervals of 20 cr 30 yards apart. even if the mine be free from accumulations of gas in case of compressed air pressure being employed two the goafs and other accessible places, the current pass- rows of pipes are laid along the roadways, one for wating is most likely to be charged with from one-third to er, the other for compressed air. These are connected one per cent of CH4, and perhaps more in certain high- at intervals by double nozzles having a small orifice, er side airways near to the returns, so little that it just An exceedingly fine spray is produced and is carried aprevents showing a cap in an ordinary safety lamp and long with the air. The escaping air appears to pulvertherefore is deemed safe. But if the air roads are in a ise the water, as it were, in a more effective manner dry and dusty condition, and shot-firing is carried on in than the pressure of water acting alone. An objection the near vicinity, then under such conditions, although to the spray arrangement is that it charges the air with they may have been deemed safe, we may expect, if agueous vapour to an extent dangerous to the health of precautions are not taken, the tearful results of mine the workmen. explosions.

How to DEAL WITH COAL DUST:-When it is seen practice to lay dust by using salt and angular sand, but that coal dust plays such a prominent part in explosions strict measures should be adopted to prevent such hav- continual use, oc, and the following methods of dealing with it, would, if carried out, reduce such accidents to a minimum.

1. Prohibition of certain explosives .- Gunpowder being considered the most dangerous, and Mr. Hall in his report to the Secretary of State says: "I have again to urge the t tal abolition of gunpowder from coal mines and the substitution of certain "high explosives." Many of the larger firms in this country have already of their own motion taken this important step. Mines which are naturally of a cry and dusty character, cannot be artificially damped so as to render gunpowder safe.

2. Restriction of explosives used .- A safety or flameless explosive should be used, and there is little doubt that the employment of flameless explosives in dry, dus ty, and fiery mines, under stringent rules as to their application and conditions of firing would greatly limit the risk attendant upon blasting operations in mines. All shots should be fired by electricity and every precaution be taken to prevent blown out shots, whilst strict attention to the provisions of General Rule 12, C. M. R. A. as to using flameless explosives should be observed.

3. Prevention of dust .- To carry this out care should be takeh in getting down and filling the coal, so as to reduce slack to a minimum. The tubs should be kept David Mitchell,

 That a ready supply of oxygen, such as is sup-plied by a brisk ventilation has the effect of making coal during haulage. Horse and haulage roads should be kept as clean as possible and free from pieces of coal 6. That certain high explosives are incapable of ig- which may be ground into dust by traffic. Accumulaniting or exploding coal dust. The difference in the be- tions af dust should be prevented by the regular filling hatjour of gun-powder as compared with the high ex- of such dust. The tubs should only be level filled to

4. Watering .- A common and practical method of watered by the following arrangement; water pipes laid along the haulage roads, or the water from the pipes from dip pumps was utilized and small hydrants were let into such pipes at regular distances apart. 25 feet long provided with a spray, was attached to each hydrant in turn and the haulage roads are well watered length by length. This is a common practice and if carried out once a week keeps the dust down on the travelling and havlage roads and the air free from dust from a sanitary point of view.

Sometimes an arrangement is used for saturating A special nozzle pressure. In some cases water pressure is got by leading water from tubbing in the shaft or from the surface, but in most cases the pressure is got by applying com. ejected through these spray producers fixed on upright

these have never been effective enough to recommend

I nay add that there is no probability that an explosion of coal dust alone cou'd be produced in a mine by a lamp flame. When dust meets the lamp flame it becomes enflamed but soon dies out, the burnt particles of dust then clog the wick causing it to burn very dim.

5. Means have been proposed, but come little into

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AUGUST 22nd 1996

UNSUCCESSFUL CANDIDATES -

AND BOARD OF EXAMINERS.

In issue of the Record of July 25th, it was stated that a very strong letter had been received from a candidate who had failed in the recent examinations for mining officials. As the writer had authorized us to apply for and publish his answers to the questions, we thought it best to withold the letter. In an interview we had with several members of the Board, prior to the examinations, it was agreed that if we secured permission from an unsuccessful candidate to publish his papers they would be furnished the Record. Accordingly we applied to the Chairman of the Board for the papers of our correspondent, We have received word from both the chairman and the secretary of the Board, that while some of the papers of unsuccessful candidates have been preserved, the papers of correspondent cannot be found. This is most unfortunate and places the entire board, we must frankly say, in a most awkward and unenviable position. No who thinks he was treated unfairly. When it was hinted to a member of the Board that the Instead of being antagonistic to the publication papers asked for were missing he deckared he of papers it should in its own interest desire to would very much sooner lose a hundred dollars, give all needed publicity. than that the papers should be lost. If there are than that the papers should be lost. If there are those who say the thing has a very fishy look are they greatly to be blamed? We, ourselves, feel more than annoyed. Than the writer, perhaps, no one had as much to do with the establishment of the mining schools, and the composition of the Board of Examiners, and therefore it may be surmised that anything that might impair the efficiency of the one, or reflect on the integrity and honor of the other touches him keenly. Of course it is but natural that an unsuccessful candidate should be disgruntled, and ready to say hard things about the Board Knowing this the Board should have at all times taken the precaution, by the preservation of the papers, to vindicate their findings. The Record believes that each candidate gets all the marks he is entitled to, but if the candidate thinks otherwise the mischief remains. The way to shut off a disappointed candidate is to publish his papers. In this case the Board is not in a position to show that its findings were just. The Sec'y of the board takes the position that after an examination all the papers of all the candidates should be destroyed, that the awards being made the final word has been said.

The Board he declares has the confidence of the government and that is sufficient. Not by any means. In many matters we see eye to eye with the Sec'y, of the Board, but on this point we are wide apart as the poles. Whether the government has confidence in the Board is neither here nor there. A fig for that. No doubt the govern-ment has full confidence in the gritism of the board in the partyzan loyality and staunchness of its members.

As to the qualifications and general good behavior of the members, the government we fear is careless. That the government is satisfied with the Board is in our opinion a very small matter. The real question is: In what esteem is the Board held by the workmen at the collieries generally? If it has not the confidence of these, the fact of the governments confidence counts for little. Whenever a candidate questions any finding, the Board should be in a position to convince the candidate and the public that its finding was just. Why should the Board claim for itself an exceptional position. If the doings of other bodies are open to review why should those of the Board be above that. A judge is expected to give reasons for his decision and does so Why should a mere flourish of the hand be sufficient in the case of the Board of Examiners. Why should not the candidates be informed wherein they failed? Seeing the publication of the papers would cost the Board neither time, trouble or money, what earthly reason is there for witholding publication? Does the Board not see that by its unwillingness to produce the papers of candidates, with their consent, that it is placing itself in a very suspicious position, laying itself open to the charge of pride or pusillanimity. Of course the Record accepts the statements that the papers asked for matter what reasons may be given for the non- at this time have been accidentally destroyed or discovery of the papers, these will not be accept-inadvertently misple ced. but we must condemn ed by very many, and least of all by the party the disinclination of the Board to have any of its actions reviewed or any of its findings questioned.

- Rubs by Rambler.

A writer in the Halifax Herald pays the Editor of the Record a left handed appreciation when he asserts that the editor is a past master when he asserts that the entor is a past master at doing out political sophistries. I wonder what is meant by that? What are political sophistries anyway? Just what the popular meaning of the word sophistry is may be hard to express. It is scarcely the same as the dictionary meaning. Are sophistries simply polished fallacies or falsehoods with an ill disguised veneering of truth, or are they fallacies so well baited that only the very wise and the very wary can discover their true character? Seeing I am ignorant of their meaning and their mission whatever censure may apply to the editor for their use none is chargeable to Rambler. I thought for a moment that political sophistries might mean

meaningless sentences', but that won't stand, as active labor. To some work is irksome and un-There may be some meaning still in the first of moneyed robbers and by unholy methods. these, the two latter are out of fashion and meaningless, I had almost said senseless. The new cry ingless, I and almost said senseless. The newery and it comes not from the workingmen but is semi socialistic seminary of its own. The aim of wafted toward them, is Justice to the employer, the seminary is to disseminate rather radical The poor workingman has no longer a meaning, views. It is assisted in its propoganda by four or but there is pathos and appeal in the cry. poor employer. A dozen years or so ago, in a de-fiant spirit, it was declared that Jack was as good as his master. That is all changed now and the appeal of the master is to be permitted at an odd time to meekly suggest that the master may be as good as Jack. Free to work where they will and for who they will; I should just think so, and free to say when others shall work and when they shan't. You bet, they not only believe they can ingmen are not only their own masters, they are the necessities of the worker determine the wage. now the masters' masters.

the author of this latter phrase says the Record congenial, these however, let us hope, are the writer can reel them off, while the author of the small minority, who are born tired. There seems sophistries phrase asserts that they are 'doled' to be, these days, an outery against work, a out. Its a blessing that the word 'dole' is used, shrinking from manual labor. Perhaps the outits use holds out the hope that the Record writery is not against work so much as against exceser is not a hardened sinner, and as he just deals—sive labor. With such a cry one may have whole Perhaps the outout small pieces, at long intervals, grudgingly, sculed sympathy, while he has not a particle for there is promise that he may yet, like the "deil" the man who despises work, because he is aware tak a thocht an mend. But, seriously, does not there are some idlers in the country. There are, the writer in the Herald,—present address Chic these days, many restless spirits who seek to conago,—see where he makes one sentence render vert workingmen to the idea that all who do void a preceding one, or vice versa. If an opin- not perform manual labor, are parasites, growing ion is honestly held, and honestly expressed it fat on the labors of others. These forget that cannot be a sophistry, for that is not simply a there are two kinds of sweat, that of the brow mistaken opinion but an utterance which the and that of the brain, and that of the two the writer suspects has perforations, yet boldly as latter may be the more distressing and enervatserts to be impervous, a case in which it is sought ing, in short the severest kind of labor. Instead to make the worse appear the better reason, by of scolding and scorning the idle rich, the work-oily craft and quiet cunning. Why is sophistry ers should pity them. If pity should be extended laid at the door of the Record? Because Mr. to the over-worked, much more should it be ex-Drummond has made "the workers believe that tended to the non-workers. The former may they are free to work where they like, and for have healthy minds, the latter are surely a prey whom they like, and to control all the governing to many mental maladies. It is right that the bodies by their votes.' And thats what is called workingman should be striving earnestly in every a sophistry. I call it the truth, without Jaegar way to better his position materially, socially, or any other under wear. Among the loudest and intellectually; it is not right that he should cries I have heard, are, justice to Ireland, justice be taught to believe that these things are not now to Cape Breton, and justice to the workingmen, his because he has been deprived of them by

The Halifax Herald is carrying on a nice little The more specialists. I thought to take a hand in a de-myself but that is scarcely necessary. There is a sufficiency of divergence of views between the Heralds assistants, rendering additions to its staff undesirable. I am going to content myself quietly looking on. I am willing to accept the unenviable part of umpire, 'Excelsior' pretends, to differ from 'Sydney Miner,' 'Sydney Miner' Roundsman, 'Roundsman' from 'Lawson,' andso on. shan't. You bet, they not only believe they can 'Inverness Miner' treads a solitary way. One cor-work when they will but they put it in constant respondent thinks the P. W. A. is not fulfilling its practice, and you 'dars'nt' question their right to mission, has simply a name to live and is dead, run the show just as they please. The poor emand never was of very much account. Another ployers dont count these days. They have to do, says the society has done excellent work, that its and do it gracefully, and no lip about it, just as constitution could not well be improved, and that the employees say. And woe betide the poor emit it is capable of great things. Whose opinion ployer who has the idea that the command is onshould prevail? Again we are told by one that ly make believe. He'll soon find out his error, the selling price of coal has little or nothing to do Work where they will? Yes, truly If they do with the rate of wages paid. The price of coal not like C. B. they will up for N. S. If they do might go away out of sight, yet that would have not love N. S. off for the North West. The work- no bearing on wages for not the price of coal but This assertion I take, of course, with a grain of salt, indeed, I might say I know it to be an incor-There are idle rich, it is true; there are idle rect statement, but I'll not say so as I do not de-poor, it cannot be denied. Happily the members sire to hurt the story teller's feelings. On the otof these classes form an infinitesimal portion of her hand Roundsman inclines to the old fashionthe whole of the inhabitants of this or any other ed antiquated opinion that the law of supply and land. Work, by the vast majority, is accepted as demand has not been deleted from the foremost name.

To be all were placed here to works on political economy, is yet a little inexorwork; if we do not work then we deteriorate in able and has more than a little to do with the rise body and in mind. Nature has laid us under com- and fall of wages. And would you believe it, pulsion to work. It lays down the law that if a though I hold to the opinion that the law of supman does not work neither shall he eat, and fur-ply and demand gets a side slap at times, I am inther, she has ordained that man can only attain clined to side with old fashioned Roundsman. and retain health of body and vigor of mind by The present demand for laborers for the North

West and loaders for Cape Breton has caused lab- he—the individual who produces for the man and

wages of a year or two ago. I have a little quiet sympathy for Roundsman of the Herald etc., as the idea has seized me that he is striving heartily to obey the injunction: "Cease to do evil and learn to do well" therefore I am a little disappointed when he makes a small slide from grace, by stating and giving as a whole truth that which is truth in very little part. For instance in his eagerness to hasten the day of nationalization (hech) of public utilities he assures us that the New Zealand government-New Zealand has been advertised after the most up-to date fashion—controls and operates the coal mines. How many? What success has attended the operation. Suppose I were to say that the Fundy Coal Co., the Port Hood Coal Co., or the Gowrie and Blockhouse Co'y, any one of them, operated the coal mines of Nova Scotia, how would the statement be characterized by people who are familiar with coal mining operations in Nova Scotia. And unless it has done it all of a sudden,

> -:--:--:-

The Herald, through its correspondents and by its own illuminated headlines, is preaching some peculiar and puzzling doctrines these days Some of them would feign preach socialism, and that not of the christian kind, if they only knew how, and it looks as if the Herald would like to help them if it only could. We are told, not once but many times that the workingman is entitled to all he produces, but we are left utterly in the dark as to what that means. 'To all he produces A miner produces five tons of coal, is he entitled to all of it. If so where do the banksmen and the screenmen and the trimmers et. al. come in. If a farmer owns some sheep, shears the wool, spins the thread, and weaves it into homespun he certainly can lay just claim to the whole of the web. If the farmer shears and the wife spins and a strange workman weaves, who does the web belong to? Can the weaver claim it because he has produced it. What is to be the share of the farmer who supplied the materials without which there would be no weaving. In short what return is he to get for his capital. Will not the weaver's share be the smallest, in justice, And so with the miner, or the tailor, or the shoemaker, eacn is entitled to a just reward for his share in the production. Why cannot those people who aim at a reformation, tell us in short measure. what they want really. Again we are told: "Individual effort centuries ago produced food for the man and his family, to-day the individual is dependent upon a vast complex mechanism for every bite of food." Well, what of it. Was he better fed or clothed or freer, centuries ago, than he is to day. The Indian had a rather free hand centuries ago, and what sort of fist did he make of it. If that individual produced food for the man and his family, that was all be did or could do. He produced no luxuries. He did his golfing with his hoe, and played tennis with a hay fork. was minus a horse and buggy, and a mower and a rake, and even a dog churn. He had to work like a nigger and sweat like a horse. To-day

or to stiffen its upper lip, and refuse to take the the family, - makes the machine do the reaping and the threshing and the raking that were done centuries ago by the swing of the arms, and the sweat of the face. When the indivinual did it all for himself and his family centuries ago, he didnt make a great fist of it, did he now? I would just like to know where the individual did all this for himself and family centuries ago? He did'nt do it in England where he was a vassal, in Scotland where he was a clansman or in Ireland where he was a serf. Where did he do it? The individual referred to must have been an Indian. between an Indian and his mode of life centuries ago, and a C. B. miner, or mine labourer and his life as he lives it to-day, give me always and ever the individual of to-day. He of centuries ago, had to produce under almost intolerable conditions. He had no costly pipe, no quid of tobacco, no sugar, no tea, no rubber tire buggy. He was his own locomotive, his own tram car. his own rubber tired buggy and, or, his own roadster.

within a few weeks, the government of New Zealand operates the coal fields to a very little exout with a "forward policy." It was about time somebody did. In the reproach of the opposition that the present Local government was guiltless of constructive legislation, there was, dare I say it, more truth than fiction. With its overwhelming majority it could have turned things upside down-statute labor for instance-yet it didn't. However, past lethargy will be overlooked if it plays its part in the Chronicle's programme. I am glad the Chronicle has undergone conversion on the encouragement of iron ore mining question. It will be remembered that the Chronicle a year or more ago, mounted its high horse and clamored for a rearrangement of the bounties. It wanted the government-federal-to relax the bounty on pig made from outside ore, and place it on pig made from native ore. That was a po-That was a policy, as the Record pointed out at the time, that would hurt the steel trade without benefitting the ore trade. The Chronicle at that time had great delicacy in telling the local government to do its duty, in demanding that it pay some heed to the development of ore mining in Nova Scotia. It has got over its modesty and now backs up the Record in demanding that the government take an interest in ore mining. If I may be permit-ted to speak, by way of criticism, I might say that it is funny that this iron policy is promulgated after it has been announced that large discoveries of ore have been made in C. B. These days the lisped prayer of an Islander, is more effective than the loudest petition of a Mainlander, Of course the 'encouragement' of the Chronicle will only be given to ore as yet undiscovered. Those who have discovered ore need no encouragement. At least that is the way I feel. If I could only get hold of a big deposit at Whycocomagh or some other convenient place, I think I would not fash myself about government encouragement. If there are known deposits in presently inaccessible places the government might well proffer aid.

> I am inclined to the opinion that the Herald's propoganda in favor of labor politics will soon dissolve into vapor. The campaign is not being conducted by generals of ability or those of honesty and sincerity.

campaign needs to be bolstered by outre and extravacontact with the matter of fact world. The arguments favoring labor politics would be funny if they were not a reflection on the intelligence and sincereity of the work-There should be labor politics because in mining villiages we have lame men, and blind men, and asthmatic men! I bet five cents that if a disinterested observer walks the streets of Springhill, Westville, Stellarton or Glace Bay on a holiday he will notice fewer maimed and fewer halt than in railway villiages or large lumber camps A miner's work is hazardous, no doubt, but there are other occupations more so. And a miner works under healthier conditions, under a more equable temperature than men in mills, factories, or farms, And tables of longevity do not go to prove that those engaged in mining have the highest death rate. Not at all. from 1882 till 1902 was instrumental in obtaining for its members quick recognition, more substantial reforms labor party in Britain, France, or the United States, to give the government in power the cold shoulder and make efforts to oust them. labor politics admit that all the reforms which have within twenty years benefitted the workingmen were not initiated or zealously sought for by the workingmen? It is a fact whatever the answer be. Can it be denied that that which has benefitted the workers of to-day more than aught or all else, more than bigger pay and cern, shorter hours, I refer to education, compulsory educa-tion if you will, was not sought for but opposed by the workmen, with exceptions of course, and had to be passed in spite of their opposition. The leaders, and the leaders may not have been workingmen in the restricted sense, had to thrust this and other reforms down the throats of their followers. The workingmen realize that there is no great call for a representative from the working face, or from the ranks of labor. In Bud Paul of Springhill they had one who was to the manor born and yet the majority of the miners of Springhill thought Dan McLeod was the better man to represent them, and gave him their votes. Neil Gillis knows what it is to 'dig coal' and yet a majority, if I am not mistaken, of the miners of Glace Bay gave their votes to a lawyer, thus proving that they did not give a Joe for a candidworkingmen of Britain had worked zealously a quarter a century ago, and since, with the party that professed to be in favor of reform, ten chances to one they would have been much further ahead than they are to-day, almost as far ahead as are the P. W. A men of Nova Scotia. The subject I fear won't enthuse, so good-bye to it, during the dog days, at least.

Certain of the papers purported to give some of the practical results of Pres. Ross's of the Dom.

Gen'l, Sales Agent, Dick; that the manager of the gant devices, it must come to grief when it comes into Hub resigns, and that a 'minor' of the survey or construction staff puts on his coat. One paper had it that an office boy earning less than what was fifty years ago the wage of a days laborer, has been sent to the right about. By way of the Underground Railway the Record is informed that Mitchell will take the Hub as being nearer civilization, and that Maxwell, U. G. M. at No. 2 will go to No. 6 to get broken in By the same line comes the news that another manager was balloted upon for expulsion, but that there was not a sufficient number of black beans, erator at the other end of the U. G. Railway solemnly asserts that all the changes are but a prelude to the blasting of some more mining reput-I do not see the good of following up the subject at this dimly—yes, say dimly—guess at. If changes are time. I maintain that the course pursued by the P.W.A. being made, because Mr. Ross is annoyed—so the ations. Whatever the fellow means one can only papers assert-at the smallness of the output and the bigness of the cost, then the dismissals may than had they organized a seperate party. Can any one be hasty. The question may be legitimately ask-friend or foe, point to a single legitimate or reasonable ed "Why with more men and more places for request of the workmen that was denied. The P.W.A. men is the output not much larger than May, got more, and got it easier, in the way of reform, than any Juneand July of 1905." But if the annoyance is When the Government in power turns its back upon the ed, for the reason that the days of cheap coal are reasonable requests of P. W. A. men, then will be time past. Some honest disinterested friend should over the increased cost then it should not be nurstake Mr. Ross kindly by the arm and tell him Will those clamoring for quietly yet strongly that the signs are that the the reforms which have Dom. Coal Co. will never again win coal so cheaply as a half a dozen or more years ago. Is the Record interfering in a private matter I hope not. It concerns the peace of mind if not a few individuals, and therefore in a sense is public con-

INVERNESS COUNTY AND ITS COLLIERIES.

(CONCLUDED.)

There are those who think there may be other coal fields in this rich county than those presently known to exist. A party seized with this be-lief is boring at Judique. It is the intention to bore to a depth of 300 feet. A six inch seam of coal was bored through a short distance from the surface. The boring up to the time of my visit was chiefly through sandstone with an occasional streak of shale. The boring is a little hap hazard, thus proving that they did not give a Joe for a canadate from their ranks. And yet they seek to tell us that or difficult, as regards locating, as there are no the toilers, should be represented by a toiler. If the exposed metals as guides. Mr. Beaton, the mine manager at Inverness, is an enthusiastic prospector, therefore it was not really a difficult matter to coax him to take a run into the country to see what was doing at St. Rose, better known as what was doing at St. Kose, better known as Chimney Corner. I had often heard of the Margarees and wished to see them. There are ever so many and so big Margarees. First there is the Forks, Margaree, North West, and South East, or thereabout, and Margaree Harbor. We could'nt take them all in in a day, so at the Forks, after having dined at Dougald Campbell's inn, we went Coal Co., late visit to C. B. As one of them stat- into session, and the votes for Margaree Harbor ed no circulars have been issued regarding the carried. The proprietor of the Forks inn is one changes, therefore the Record cannot speak of the cantiest and blythest old fellows one would with certainty as to their number. It seems cerwish to meet. I should'nt call him old, his man-tain however from its repetition that Mr. McIsaac ner is youthful. He has a taking way with him, of the Transportation Department goes in with and he relieves the montony of a country life by

paying compliments to tourist's wives,-most zealously and openly at the times when Mrs. Campbell is doing the carving. And he does it so innocently and neatly, that one, and the one most ground at the Allan shafts, so that places may nearly affected is rendered speechless, Mr. Campbell is a genuine sample of the kindly Scot, and is known as such far and wide as well as in his own countryside.

distance is some seven miles, and the road we Some celebrations have already been held and take is on the south side of the River. The scen- others are to come off. ery is not grand, but quietly and interestingly rate at the grounds adjoining the No. 3 colliery pastoral. I have travelled a bit in my day, and I on Sept. 1st. do not remember having seen so large a stretch of country so thickly studded with farm houses and farm buildings. There were no breaks or gaps at unusual distances, for the whole of the way, till the Harbor was reached; and we were camp is as thickly settled as the portion we had seen. The houses indicate that the people continue. are thrifty. Margaree Harbor is a rather picturesque spot. The entrance to the Harbor is narcopper ore of commercial value,

Not long after leaving the Harbor for Inverness, by the shore road, we noticed a coal outcrop time from the Dominion Coal Co. in order to pro-and Mr Beaton could not pass without examin-ceed to the North West. They will not be gain-ation. We found two outcroppings and in a jiffy ers from a material stand point by the change, concluded that there were two seams, one thicker then the other, out hether of the thickness of skined men also seemingly have a repugnance five feet. They were a long way distant from for unskilled labor at the mines while willing to Chimney Corner, and they had no connection aptake any odd job in the wheat fields. parently with the seam at St. Rose,

At length we reach the bore hole at St. Rose where Mr. Sands struck the eight foot seam of coal which it is claimed his company will soon work. It is said a shaft will be sunk, but unless the angle is much less than surface indications higher than at any previous time in the memory sive, if any good grip of the coal is desired, work has been done in the way of sinking. had heard that an engineer and party were at work near the bore hole, but dilligent search—from the highway—failed to locate them. By diligent enquiry we learned from a countryman where the party were at work and the nature of the work that they were prosecuting. The conclusion come to was that this was a party sent out to hold the fort, that is, doing some 'active operations' in order to retain the municipal subsidy. The season is too far advanced to permit of active operations at the mine or on the ness that Ira Taylor the promoter of the comenactment shows an increase which is sufficient to turn pany was in London with a representative of the Wallace interests, the object being to negotiate for a transfer of the Wallace areas to the Nova Scotia Collieries, Ltd. It is strange that the company has not secured the Lithgow areas. If the coal runs seaward, these areas will be necessary for the carrying on of big operations.

-AROUND THE COLLIERIES-

There is no let up to development work undersoon be obtained for a number more miners. At present there are no fewer than fourteen leading

The P. W. A. lodges are celebrating the anni-From the Forks to Margaree Harbor the versary of the Society at dates to suit their fancy.

A majority of the big collieries show decreases for July. The decreases foot up 37000 against 15000 tons increases, a net decrease of 22,000 tons. It will require something more than the summer told that the whole way along the shore to Cheti. picnics to account for this, unless the men are becoming more frolic loving the longer good times

The concrete pillars on which the steel bankare sque spot. The entrance to the harroor is narrow, shallow and difficult. The shifting sands im-row, shallow and difficult. The shifting sands im-pair the usefulness of the Harbor. From the hill for the superstructure in a few days. From the behind the hamlet one has a good view of Chetinumber of these pillars it is evident that the bank beaming the manner one has a good view of cheetinumber of these philars it is evident that the bank camp, and Chticamp Island and also of the place head will be large and roomy. A large travelling where is situated the Richfield mine, which it is derrick has been built to handle the massive pieces hoped, at some day not distant, will be producing of steel to be used in the construction of the bank head.

Close on three hundred men lifted their back but then they will gain experience by travel. than the other, but neither of the thickness of Skilled men also seemingly have a repugnance

> The temperature around the collieries during the hot wave was of course high, but nowhere so high as at a spot some two or three hundred yards from the 'Senators' corner at Glace Bay. It is said that at this place the temperature was of the O. I. This statement is made on the authority of reliable and disinterested authority. We The heat affected different indivivuals in differ ent ways. The Record cannot comply with the request to reproduce snapshots,

EIGHT HOURS FOR BRITISH WORKMEN.

The vote of the Northumberland miners upon the eight hours question is of great importance in the colliery world. Hitherto there has been a majority opposed to the Bill brought forward on behalf of the miners of other districts in the country. Now the number of men agreeable to an eight hours day by Parliamentary the scale in their favour. A majority of a thousand may not appear very large, but it is considerable, and especially so when we remember the history of the question in this part of the mining field. Interest in the subject has developed rapidly of late, and the vote indicates that the men realize the importance of the ballot just taken.

AROUND THE COLLIERIES.

The pits are losing heavily these days owing to the number of pic-nics.

A scarcity of houses at Stellarton is in great part responsible for the short supply of labor at the mines.

Two shifts instead of three has had to be resorted to in a section of the Allan Shafts owing to lack of miners.

Perhaps one reason why so few loaders go to the

Mr. E. Leflamme, formerly of the Springhill staff of the Cumb. Ry. & Coal Cov., is now on the staff of the Montreal office.

The Inverness mine is to be put double shifted as soon as the necessary number of men are secured. Double shift may be now on

The Inverness Ry. & Coal Co. are putting forth sup-reme efforts to secure miners. It is likely that some men may be attracted from collieries that have not themselves an over abundance,

Sinking to the deep of No. 3 slope, Springhill, is now being pursued with vigor and the underseam is being opened up east and west of the 3800 ft. lift, lift of No. 3 will be tetween 600 and 700 feet long.

The Dominion Coal Co's contract with the Everett people will expire before a great while, and it is said the Gas Co. is wondering what the Dominion Coal Co. will do. The Everett people talk Southern coal, while the Dominion Coal Co. say higher prices. The Broughton bluff is no longer played. Who will w'n?

The suicide of H. D. Mayhew, son of the President It seems the young fellow was not in the best of health come. The paper may later be prepared for publication, for some weeks prior to his death. He was worried about something which drove him insane.

The coal on the bank of the Dominion Coal Co at Montreal looks better than for many years back. The coal is larger and also cleaner. The coal is not arriving at Montreal from N. S. as quickly as anticipated, The Dom, Coal Co. and the N. S. Steel and Coal Co. bank between them about 130,000 tons. Labor in Montreal is quite as scarce as in N. S. The Railways are offering from \$1.50 to \$2.00 per day.

Two driver lads employed at Dom. No. 3 colliery were finded \$14.00 and \$18.00 or fifty days in jail, and discussion of papers to follow, \$10 and costs or 40 days in jail respectively for trying, in short, to effect a strike of the drivers at that colliery. The lads quit work and tried to induce others to do so. The wage paid drivers is \$1,35. The boys intended by a little strategy to get \$1,65. The stipendiary magis-

There has been considerable time and much coal lost lately in Springhill through the men laying off.

The levels west of the 3800 ft. lift, No. 3 mine, Springhill, has been driven a mile through untroubled ground of a uniform grade 23°. It is generally conceded that No. 3 mine workings have now got beyond the troubled zone and both new lifts will permit of a better machine mines in C. B. is that no set or stipulated wage the steeper ground is being very successfully and safely

> After much discussion, of a geological nature, many surmises, and a deal of good natured bantering and cutting, amongst the official staff, No. 5 slope, Springhill, was holed through to No. 2 slope without fault, or blemish, although apparently threatened from all sides by troubled ground. What this means for Springhill may be surmised from the fact that there is now in view two miles and a half of unbroken ground in No. 2 mine, of coal unequalled anywhere; and in No. 1 mine, a mile and a half at the least, of a 9 foot seam, that is the equal of No. 2 in every particular, and possibly the superior of the latter as a coking coal.

The Maritime Mining Students Association has taken a fresh lease of life. The live mining students of the town finding great benefit and interest in exchanging views on the several subjects treated in the study of mining. Two papers were recently read before the society on "Mine Gases, their danger and how to deal with them" by Wm. Hartley. "Mine Fires, their origin, and how to prevent or extinguish them", by W. D. Matthews, A paper bristling with facts based on personal experience, and shrewd suggestions of a practical of the Cape Breton Coal, Iron & Ry. Co. gave the en- nature, the result of a careful study of various condittire community a severe shock on its announcement, ions under which mine fires have been met and over-

> The meetings of the Maritime Mining Students Association recommenced on July 20th, at the residence of Mr. W. D. Matthews, Springhill. The following officers were elected: President James McNeil; Vice Pres. Charles Kent; Treasurer, W. D. Matthews; Secretary, Wm. Hartley. Committee: - Chairman, J. G. Evans. Chairman to name balance of committee.

The meetings will be held each successive Friday at 8 O'clock at Mr. Mathews residence, when papers will be given on practical mining subjects,

Activity around the Allan shafts is very noticeable. The concreting at No. 1 shaft from the The wage part drivers is \$1,00. The coys intended by surface afty feet down is about completed. The a little strategy to get \$1,65. The stipendiary magistimbering of the shafts and the placing of the trate gave them some wise counsel, and surprised the slides is keeping pace with the concrete work. lads when he told them his charges for the same. This The timbering conveys the impression of great is the first case of the kind that we have heard of, and strength, solidity and permanency. The shaft is it is not improbable that if the remedy proves effective divided into three compartments. It is a satisfysurface fifty feet down is about completed. ing shaft to look at.

Coal Shipments JULY, 1906.

DOMINION COAL COMPANY, LTD.

| -Output and | Shipments for | July 1906 |
|-------------|---------------|-----------|
|-------------|---------------|-----------|

| | -Output | Shipments- |
|--------------|-----------|------------|
| Dominion No. | 1 45 266 | |
| Dominion No. | | |
| Dominion No. | | |
| Dominion No. | 4 49 751 | |
| Dominion No. | 5 59 298 | 318 291 |
| Dominion No. | | 010 201 |
| Dominion No. | 7 11 381 | |
| Dominion No. | 8 25 052 | |
| Dominion No. | 9 33 961 | |
| | 318 291 | 318 291 |
| Shipments | July 1905 | 342 962 |
| Decrease | July 1906 | 24 671 |
| Shipments' | mos. 1906 | 748 887 |
| ** | " 1905 | 499 772 |
| Increase ' | " 1906 | |

INTERCOLONIAL COAL CO.

| Shipments | July " | 1906 1905 | 24 177 14 864 |
|-----------|-----------|--------------|--------------------|
| Increase | July | 1906 | 9 313 |
| | 1 " | 1906 1905 | 163 720 102 953 |
| Increase | | 1906 | |
| | | | |

CUMBERLAND RY. & COAL CO.

| | ** | 1906 1905 | 20 27 | 504 706 |
|----------|----|--------------|------------|------------|
| Decrease | " | 1906 | 7 | 202 |
| ** | " | 1906 1905 | 251 222 | 180 587 |
| Increase | | 1906 | | 593 |

ACADIA COAL CO.

| Shipments Jul | y 1906 1905 | | 083 |
|---------------|-----------------|-----|-----|
| Decrease " | 1906 | | 487 |
| 7 | s. 1906 1905 | 140 | 861 |
| Increase 7 " | 1906 | 3 | 542 |

INVERNESS RAILWAY &COAL CO.

| Shipments July | 1906 1905 | 19 702 14 009 |
|------------------|--------------|------------------|
| Increase " | 1906 | 5 693 |
| Shipments 7 mos. | 1906 1905 | 92 160 70 090 |
| | 1906 | 22 070 |

NOVA SCOTIA STEEL & COAL CO.

-SYDNEY MINES. -

| Shipments | ** | 1906 1905 | 71 | 692 501 |
|-----------|--------|--------------|-----|------------|
| Increase | 4. | 1906 | - | 191 |
| Shipments | 7 mos. | 1906 | 336 | 605 963 |
| Increase | | 1906 | | |

Prince Edward Island Railway.

TENDER.

Scaled Tenders, addressed to the undersigned, and marked on the outside 'Tender for Car Shop at Charlottetown,' will be received up to and including TUESDAY, SEPTEMBER 4th, 1906, for the construction of a Car Shop at Charlottetown, P. E. I. Plans and specifications may be seen at the Res'dent Engineer's office, Charlottetown, P. E. I. jat the office of the Secretary of the Department of Railways and Canals, Ottawa, Ont., and at the Chief Engineer's Office, Moncton, N. B., where forms of tender may be obtained.

All the conditions of the specification must be complied with.

D POTTINGER. Railway Office. Moneton, N.B., 17th Aug , 1906. General Manager

Intercolonial Railway.

TENDER FOR BRIDGES.

Sealed Teuders, addressed to the undersigned, and marked on the outside "Tendur for Bridges," will be received up to and including MONDAY, SEPTEMBER 3rd. 1996, for the construction and erection of the steel superstructure of a bridge at Docatown; it steel superstructure of a bridge at Boisetown front on the Loggiewille-Fredericton Section), and also for the construction and erection of the steel superstructure of a bridge at Boyer River, near St. Charles Junction, P. Q.

Masonry plans and general specification may be seen at the Chief Engineer's office, Montton, N. B., and at the office of the Superintending Engineer of the Canals of the Province of Quebec, Montreal, and the Conditions of the Superintending Engineer of the Canals of the Province of Quebec, Montreal, All the conditions of the specification must be complied with:

All the conditions of the specification must be complied with.

Railway Office.

Railway Office. Moncton, N. B. August 14th. '06,

materials in connection with the excavating and grading for new tracks between North Street Station and the grain clevator at Halifax, N. S. Plans and specifications may be seen at the Terminal Agent's Office Halifax, and at the Chief Enginer's office, Moneton, N. B. where forms of tender may be obtained.

All conditions of the specification must be complied with. Railway Office,

D. POTTINGER,

Manufac, N. B.

Railway Office, Moneton, N. B. General Manager. 10th. August 1906.

MINE MANAGER WANTED.

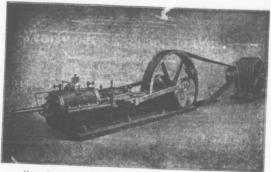
The undersigned are asked to receive applications for the position of Mine Manager for an important colliery in Nova Scotia.

The Applicant will please state Age Experience and Salary required.

—All communications will be considered Private.—

DRYSDALE & McINNES. HALIFAX, N. S.

Allis-Chalmers-Bullock, L't'd.



One of our 12½ x 18 Air Compressors driven by a 50 h. p Induction Motor, and supplying power for a Manitoba quarry.

For different uses of compressed air see Catalogue 75 F.

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WIRE ROPE

HIGH CRADE WIRE ROPES FOR Hoisting, Haulage, and Colliery Purposes. Manufactured Dominion Wire Rope Co., Ltd., MONTREAL.

AUSTEN BROS -: HALIFAX AGENTS.

500. - WANTED. - 500.

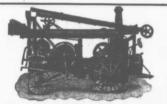
Wanted immediately, at Inverness, C. B. Five Hundred Hand Pick Miners,

Underground and Surface Laborers.

Miners earn Two to Five Dollars per Day.

Inverness Railway & Coal Co.

J. McGILLIVRAY. SUPERINTENDENT



The KEYSTO

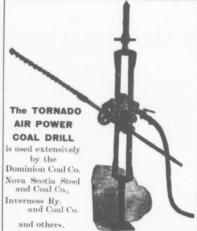
Percussion Core Drill Attackmnt is an economical appliance for TESTING COAL LANDS.

It can be used in connection with any good "churu" drill, but operates best on the long stroke KEVSTONE, thus making the cheapest and quickest method of soring to be found. In operation a hole is sunk to the coal with the ordinary Rock Bit. The fit and Stem are then removed and the Coring Attach-ment put on in their place—It takes a 4 ft. core out of the Soft-est as well as the Hardest part of the vein—Av-ids all delay and expense of 'rods' water wash, duamonds, shot, and heavy operat-ium wacchanism. ing mechanism.

Price of Complete Attachment \$200.00

Catalog No. 2 B. is a book on the subject. We make Water, Oil & Test Well Drillers for all depths and purposes.

Keystone Driller Co. Beavr Falls, Pa.



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MABOU & GULF COAL COMPANY, L'T'D. Miners of the

MABOU DIAMOND COAL.

Burns and Works like Bituminous:

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STEEL CASTINGS FORGINGS, SPRINGS. FROGS CROSSINGS.

We make a Speciality of cast Steel WHEELS

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INTERLOCKING SWITCH AND SIGNAL Plants.

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Fairbanks Morse Duplex, Piston Pattern, Boiler Feed Pump.

Steam Pumps, Power Pumps, Fire Pumps.



Fairbanks Morse, Vertical Duplex Boiler Feed Pump, Marine Type.

We make pumps for all Purposes, and have a VERY Extensive Line of Patterns.

Our aim is to Build a High Grade Line of Pumpin Machinery.

The Material and Workmanship entering into the Construction of Our Pumps is kept up to the highest Standard at all times.

All the Wearing Parts are made to Gauge and are therefore

BEFORE IT LEAVES THE FACTORY.



Send for our Catalog 48c, or have our representative in your vicinity call on you.

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The Canadian Fairbanks Compar G. E. Choinier, St. John, N. B.

Montreal, Toronto, Winnipeg, Vancouver.



Synopsis of Canadian North-West. Homestead Regulations.

Homestead Regulations.

Any even numbered section of Dominion Lands in Manitolos or the North-West Provinces, excepting 3 and 26, no reserved, may be homestearded with the section of the

the Louis excome vacant, or ff entry has been granted it may be summarily cancelled.

DUTIES.—A settler is required to perform the conditions under one of the following plane) mouths residence upon and cultivation of the land in each year during the term of three years.

(2) If the father (or mother, if the father is deceased) of a homesteader solution upon a farm in the vicinity of the land entered for by such homesteader which we have a summarized to be such person residing with the lather or mother.

(3) If the settler has his permanent residence upon farming land owned by him in the vicinity of his homestead, the requirement may be satisfied by such person residing. The properties of the properties of the settler must give a staffsed by the in the vicinity of his homestead, the requirement may be satisfied by Borier making application for patent the settler must give six months notice in writing to the Commissioner of Deminion Lards at Ottawa, a fils idention to do so.

SYMOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS Coal. Coal lands may be purchased at \$10 per acre for soft coal and \$21 for antimacite. Not more than 320 acres can be acquired by one individual or company. Royalty at the rate of ten cents per ton of 2×20 pounds shall be col-

for antimetic. Not more than 220 acress can be acquired by one in dividual or company. Royally at the rate of ten cents per ton of 2200 pounds shall be collected on the gross output.

A free-mine for an inst vidual, and from 850 to 200 per annum for a company according to capital.

A free-miner, having discovered inheral in place, may locate a claim 1500 x 1500 per annum for a company according to capital.

A free-miner, having discovered inheral in place, may locate a claim 1500 x 1500 per annum for a company according a claim is 85.

At least 8100 must be expended on the claim each year or paid to the mining recorder in lieu thereof. When 8500 has been expended or paid, the locator max, upon having a survey made, and upon complying with other requirements.

The patent provides for the payment of a royalty of 2.1-2 per cent on the sales.

os. Placer mining claims generally are 100 feet square; entry fee \$5 renew

Faced mining claims generally are 10 feet square; entry fee \$5 renew-ble variable v

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

Miners Wanted BULL DOG TOBACCO,

Because it is the only Tobacco which does not excite Thirst for Water after using.

TRY IT!

The St. Lawrence Tobacco Co., Ltd. -Montreal.

-W. B. Reynolds, Halifax Representative-

The Archibald Company, Limited

Hats, Caps, Straw Goods, all kinds of Fur Goods and Men's Furnishings. Wholesale only,

TRURO. Nova Scotia.

NOT ONE CENT FOR REPAIRS



An experienced Engineer has written us as follows:-

"After eighteen months of hard service, the Robb engines are in excellent share, running very smooth and without a bit of vibration. Up to this time they have not cost one cent for repairs, the only expense being steam, oil and pack-ing, and this below the average. Perfect alignment, parts well machined, and good design make the Robb the most conomical and labor saving engine that has ever come under my notice

Robb Engineering Co., Ltd. Amherst, N. S.

187 Hollis St., HALIFAX

Parties appointing this Company to act for them will have the benefit of the wide business experience of the Directors, who are easily recog nized as gentlemen of integrity and nized as gentlemen of integrity a ability. Folders obtained form Branches Bank of Nova Scotia.

HAMILTON'S ZEPHYR

....PILOT,

CALLED

"The Prince of Pilots."

Beyond comparison. The Finest Pilot Biscuit Made. ASK YOUR GROCER FOR IT.

G. J. HAMILTON, & SONS.

Pictou, Halifax, St. John.

Contractors to Admiralty and War Office, also Colonial Governments.

ALLAN, WHYTE & C'O'Y.

Clyde Patent Wire Rope Works,

Cablegrams:
"Ropery Rutherglen," Rutherglen, Glasgow, Scotland. Codes, A. E. C. (Eth. & 2th Eds.)

"Ropery Rutherglen," Rutherglen, Glasgow, Scotland.

Wire Ropes

for Winding & Haulage in

Aerial Ropeways, Suspension Bridges, etc. Specially flexible for Ore & Coal Discharging Cranes, Winches, etc.

The Nova Scotia Steel & Coal Co., Ltd., who use our Ropes largely, write that one of our Haulage Ropes at Wabana Mines has been in service for over 5 years, drawing over 1,750,000 tons in that time and is still good for further considerable service.

Agents in Nova Scotia:—Wm. Stairs, Son & Morrow, Ltd., Halifax. Agents in New Brunswick:—W. H. Thorne & Co., Ltd., Saint John

-Different Sizes and Qualities kept in Stock-

CAPE BRETON COLLIERY.

-SUPERIOR

STEAM AND DOMESTIC COAL

SAFE AND CONVENIENT SHIPPING PORT

The Nearest Coal Port to Newfoundland

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Just Inside Entrance Great Bras doR.

Vessels from P E. I. and Western Ports, via St. Peter's Canal, will save time by loading at New Campbelton. Smooth Inland Navigation. Quick Despatch.

-- J. T. Burchell Manager.

INVERNESS IMPERIAL COAL

INVERNESS RAILWAY and COAL COY.

Inverness, Cape Breton.

Miners and Shippers of INNERNASS (BROAD COVE)

Screened, Run-of-Min Slack.

-First Class both for Domestic and Steam Purposes .-

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

Apply to Inverness Raffway and Coal Company, Inverness, Cape Breton; Wm. Petrie, Agent, Port Hasting, C. B.

INVERNESS RY. & COAL CO'Y

Time Table No. 18, Taking effect at 1 a.m

| EASTBO | UND | | 1 | WEST | BOI | UND | | |
|--------------------|--|---|--------------------|--|-----|--------------|--|--|
| Read Do | wn | STATIONS. | - | Rea | d U | t Up | | |
| No. 52 N a, m | o. 54 p m | | | | N | No 58 p m | | |
| 8 11 16 A 11 35 A | L 3 55 S 4 00 A 4 13 L 4 18 F 4 35 S 4 43 F 5 5 38 L 5 4 33 F 6 53 F 6 53 F 6 53 F 6 53 F 7 20 P 10 | CATHERINE'S POND PORT HOOD GLENCOE MABOU GLENDVRE | ASLAFSFFFFLAFSFFSL | 10 58 10 58 10 46 10 36 10 98 10 08 9 53 9 22 9 08 9 00 8 44 8 11 8 66 7 7 22 8 7 22 | SL | 3 27 3 10 | | |

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Miners of

SCREENED STEAM STOVE SLACK COAL,

Mines and Shipping Pier, Port Hood; C. B.

Especial care is taken in preparing our coal for Domestic Uses. For Stoves, Grates and Ranges, it has no superior in Cape Breton or Nova Scotia.

For prices f. o. b. at Port Hood and delivered at any point including all stations in the Intercolonial or Dominion Atlantic Railways apply to

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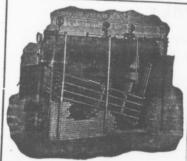
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Can be adapted to existing plants and to all types of boilers, effecting great economy in fuel consumption.

Write for our Circular giving detailed description.

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We Have in Stock

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Asbestos Cement, Blacksmith Bellews, Carriage Bolts, Crow Bars, Coke Forks, Rail Benders, Jack Screws, etc. etc.

These are only a few of the many supplies we have on hand. Write for quotations

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BARRISTER, SOLICITOR, ETC.

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Best all round flour on the market. Uniform in quality. Every barrel

can be depended upon. This flour can only be had in Cape Breton at the stores

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The Stirling Consolidated Boiler Company,

Successors to the plants and Water Tube Boiler business of The Stirling Company, Barberton, Ohio, and The Aultman & Taylor Machinery Coy., Mansfield, Ohio.

Manufacturers of

Stirling A.&T. Horizontal and Cahall Vertical Water Tube Boilers, Chain Grate Stokers and Superheaters.

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"REDSTONE SHEET For Highest Pressures with Steam, Hot or Cold Water and Air

The most durable and satisfactory Packing on the Market. Suction Hose, Steam Hose, Air Drill and Pneumatic Tool Hose.

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Coal and Gold Mining Machinery a specialty

Endless Haulage Engines, Revolving Tipples, Picking Tables and Com. plete Screening Plants for the Cleaning and Picking of Coal. Rope Wheels, Pumps, Valves, Shafting, Belting Etc.

Complete equipments furnished for Coal or Cold mines.

Screening plants are now in operation at Sydney, Springhill, Broad Cove, Port Hood and Westville Mines

Estimates Cheerfully given.

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Steel Wire, Perforated Steel. For miners and every other use
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INTERCOLONIAL COAL MINING CO., Limited,

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MANUFACTURERS AND MERCHANTS SHOULD ADVERTISE IN THE MARITIME MINING RECORD Rates Moderate.

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Miners and Shippers of GOWRIE COAL.

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Especially designed Piers for the rapid delivery of coal into Vessels by Roe and Bedlington's Patents.

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Worthington Pumps for Water Works and Mines.

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Two Worthington 3 stage Turbines and McCormick Water Wheels, built for Port Arthur, Ontario, Water Works. Combined capacity 1440 gallons per minute against 350 head,

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Etc. Etc.

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OPERATING THREE THICK SEAMS NOS 1, 2 AND 3.

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... ANALYSIS ... 1.41% 2.71%2.02 % 28.41% 27:93 % Volatile combustible matter 18.94% 64.69 % 67.47 % Fixed Carbon. 75.29 % 3.19 % 4.19 % Ash..... 3.75 % 100.00 100.00 100.00 .79 % Sulphur..... 1.15 % 58%

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Delivered By Rail or Water

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—Yearly output 3,500,000 tons.—

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ANALYSES OF GAS AND STEAM COAL MADE BY J. & H. S. RATTINSON, CHEMISTS, —NEWCASTLE, ENGLAND.—

| | | | | | | | | | | | | | | S | rea! | м Со | DAL. | | G | s Co | AL |
|-----------|----|----|------|----|--------|----|------|------|----|--|--|------|-----|---|------|------|-------|-----|----|------|------|
| CARBON | | ٠. | | ٠. | | ٠. | | | ٠. | | | | 8 | 0 | 18 | per. | cent. | 77 | 51 | per. | cent |
| HYDROGEN | Į. | | | | | | | | | | | | | = | 1.1 | 66 | 6.6 | 5 | 22 | | 6.6 |
| OXYGEN | | | | | | | | | | | | | | 7 | 34 | + 6 | 4.6 | 6 | 72 | | - 6 |
| NIIKUGEN. | | | | | | | | | | | | | . 1 | | 16 | 6.6 | 6.6 | I | 27 | 6.6 | 64 |
| SULPHUR | | | | | ٠. | | | | | | | | 0 | , | 56 | 6.6 | 6.6 | 3 | 07 | 6.6 | 6.6 |
| ASH | | | | | | | | | | | | | - 1 | 2 | 30 | 4.4 | 6.6 | 4 | 10 | 5.6 | 64 |
| WATER | ٠. | | | | | | | | | | | | 3 | | 35 | 4.6 | 6.6 | . 2 | 11 | 4.6 | 66 |
| | | | | | | | | | | | | | | | | | | | | | |

Calorific Power of Steam Coal:—Pounds of Water evaporated from 212 per cent Fah, by one pound of the coal as determined in Thompson's Calorimeter,—14.8 lbs.

Shipping facilities at Sydney, and Louisburg, G. B., of most modern type. Steamers carrying —6000 tons loaded in 24 hours.—

Special attention given to quick loading of sailing vessels. Small vessels loaded with quickest despatch.

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The Dominion Coal Co- has provided unsurpassed facilities for Bunkering Ocean going Steamers with Dispatch Special attention given to Prompt loading Steamers of any Size are bunkered without detention.

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