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New Series Vol. 12 No. 5

September 8th. 1909

STELLARTON, N. S

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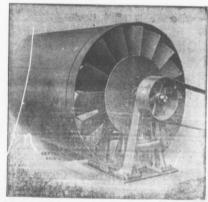
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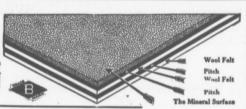
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Vol. 12, No. 5. Stellarton, N. S., SEPT. 8 1909. **New Series** 

#### SELECTED OUESTIONS AND ANSWERS.

(Science and Art of Mining.)

#### GASES IN MINES.

working. What precautions are necessary while doing

-The above question undoubtedly refers to acthe most abundant kind of gas met with in coal mines, waich results from the decomposition of organic matter and is a natural product of the coal and coal measure strata; or it may be taken to mean the gas known as black damp or CO2, produced in a variety of ways, such as the decomposition of organic substances, the burning ot lamps, candles, use of explosives, breathing of men and animals, and also given off by coal seams and coal strata, especially so in shallow deep mines

exceptional circumstances, and which vitiate the atmosphere of the mine with deadly and poisonous gases, may in this case be left out of consideration. Sufficient here to say that whichever gas may be encountered requires to be diluted and rendered harmless by the application of a sufficient amount of fresh air in accordance with the requirements of General Rule 1 of the C. M. R. A.

Having made this preliminary introduction regarddifferent kinds of gas met with, I propose to explain the of CO2.] operation of clearing gas out of a working, and here it may be stated that the presence of gas is due to ohe of two causes, viz., deficient or inadequate ventilation as required by the General Rule 1 or that of faulty ventilating appliances, such as air doors, air crossings, stophakage of air; consequently the air produced and provided is not carried forward and utilized to keep the working clear of gas. Of course under what may be may be said to be of a two-told character. termed abnormal circumstances such as a blower of gas or a heavy fall causing a blockage, either of which would in close proximity naturally is affected. The heat probe of such a character as to cause an accumulation of spent, or the fall removed, would probably cause normal of the fire. conditions to exist again.

the application of an adequate volume of air, giving a sufficient amount of energy to effect its removal, or in made as to the part of the gob the heat is coming from. other words dilute and render it harmless as required by General Rule 1.

The first thing requisite is the provision of an ample and liberal volume of air, and the conduction and guidance of the air in a systematic and proper manner to the working face, so as to keep the atmosphere of the mine

free from traces of gas, This of course is effected by fixing brattice or air pipes, or both, according to the conditions prevailing. Assuming a large body or accum-ulation to exist, the best method to adopt is that of removing it gradually in sections, the gas is more easily broken up, and in addition the return current is not as Q .- Describe the operation of clearing gas out of a highly charged as by directing the air current on to the whole body of gas fouling that portion of the working.

The precautions necessary whilst doing so for its safe removal are: (a) The withdrawal of all workmen cumulations of the gas known as fire-damp or CH4, the from the part or parts found dangerous, also all workmen situated on the return side of the accumulation. (b) The selection of careful and trustworthy persons to a sist in its removal, such as fixing of timber, brattice. and air-pipes, each and every person to be equipped with a good type of safety-lamp, each lamp to be locked, examined, and found sate by the official in charge. In fixing brattice or air-pipes care should be taken to keep on the intake side. the safety lamps also kept in a safe position from the accumulation near the floor. The other two gases, viz., Carbon Monoxide and conjunction with these precautions an ample supply of Subhuretted Hydrogen which are met with only under materials such as timber, brattice, laths, nails and pipes. should be available for the work.

Note.-It cannot be too strongly impressed upon mining men that the satest and in the long run the quickest way of removing a large quantity of gas is to deal with it in small amounts. This applies to all pits whether ventilated by fan or furnace. This applies equally to CO2 and CH4, though of course it is not so difficult to remove CH4 from dip workings as it is from ing the vitiation of the atmosphere of the mine by the rise workings, while the contrary holds good in the case

#### GOB FIRES

Q .- You are asked to say what are the chief indicapings, deranged or faulty brattice or air pipes, causing tions of a gob-fire. Name the principal gases given off. What steps would you take to deal with a gob-fire?

A,-The indications given off when a gob is on fire

1. Heating .- When a gob fires the part of the mine duced by the fire is transmitted to the air current, which gas to take place, and which when the blower was may be affected for a considerable distance from the sest Thus in case an exceptional high temperature exists in any part of the roads through the gob, The operation of clearing gas may then be said to be other things being in order and ventilation as usual, a gob-fire should be suspected, and a close examination

2. Gob Stink .- When a gob is on fire its occurrence may be detected by the smell given off due to the various gases given off from the fires, the character of which will be governed by the stage of combustion.

The principal gases given off from a gob fire are :-1-Carbon Monoxide, which is produced by incomplete combustion, such as is most likely to take place the relay is weakened. In consequence of the decrease plete combustion, such as is most likely to take place the relay is weakened. In consequence of the decrease when a gob is on fire. This gas is of a most dangerous of attractive force of the electro-magnet of the relay its when a god is on are, anis gas is or a most dangerous character, a very small percentage being fatal to life

stage of combustion is complete, due to the combination the presence of carbon with oxygen. This gas is of a poisonous charlamp is placed. lamp is placed.

proportions,

3. Sulphuretted Hydrogen. This gas is given off from gob-free in small proportions, and is of a very deadly character, a very small percentage being suffic-

of small character and easily accessible it should be dug out and sent to the surface in iron tubs. If however the out and sent to the surface in from tubs. If however the fire is of a more serious character and the method of nre is our more serious character and the method of digging out impracticable, then a more practical method sugging out impractication, then a more precision metabolism must be adopted, which consists of cutting off the supmust be adopted, which consists of cutting on the sup-ply of air from the part of the mine the fire exists. This pay or air from the part of the mine the fire exists. This is done by erecting brick stoppings tightly packed with sand, In performing such work sites should be selected sand, in performing such work sites should be selected and stoppings built of a double character, the distance and stoppings built or a double character, the distance between the two stoppings being tightly packed in with sand. The stoppings in the return should be built first sand, and stoppings in the return should be built than and also a pipe should be inserted in the brick work fitted with a pressure guage and tap, in order to ascertain the pressure of gas to enable the gas to be run off tain the pressure of gas to enable the gas to be run on if required. After the above stoppings have been completed, the stoppings in the intakes should be built. By preted, the stoppings in the intakes should be culti.

the above method the air supply is cut off and the fire ultimately extinguished. There are also other methods which may be adopted. These are:—

1-By directing a supply of CO2 on to the fire by means of pipes; the result is that the fire is extinguished by the action of the above gas.

2. - By flooding with water. affected, and thus flooded; the fire by this means is thus

This method should only be adopted when all others This method should only be adopted when all others of it whole heartedly, practice with great zee that the water has to be again pumped out ily acquire wonderful confidence in its use. is disastrous and the expense enormous. Neither of the two latter methods is often adopted, and only as a last

#### FIRE DAMP DETECTOR.

The Berlin Lokal Anzeiger describes an invention, consisting in a simple apparatus for indicating the presence of fire-damp in coal mines, which may eventually prove a boon to miners. The working of the apparatus depends upon the fact that the electrical resistance of selenium decreases when exposed to light. In using the above mentioned invention in mines, a cell containing selenium is placed in an electric circuit containing a ng setemban is placed in an electric circuit containing a relay and a battery. Under normal conditions the selenium cell is exposed to the bright beams of a Davy miners' lamp. The bright beams of the lamp cause the Jockers, etc. selenium cell to offer a comparatively small resistance to the current of the battery with which it and the relay are in circuit, so that the relay exerts a comparatively powerful pull on its armature and keeps it attracted. If, powerful put on its armature and keeps it attracted. If, recognition of the U. at W. is a matter who were, the lamp becomes surrounded by fire-damp, solely and wholly with the coal companies, its light becomes duller, and the resistance offered by

of attractive force of the electro-magnet of the relay its armature is pulled back by a spring against a contact which closes an alarm circuit, and causes electric bells 2- Carbon Dioxide. This is produced when the to be rung at all the necessary points, thus indicating stage of combustion is complete, due to the combination the presence of fire-damp at the spot where the miners' which closes an alarm circuit, and causes electric bens to be rung at all the necessary points, thus indicating

deadly character, a very small percentage being suffic.

In a paper submitted to the midiand institute or item to produce death. It is due to the presence of this Mining Engineers by Sergeant A Winborn, who has ient to produce death. It is due to the presence of this Mining Engineers by Sergeant A Winborn, who has gas that gob-fires may be detected by the peculiar stench, charge of the Tankersley Rescue Station, the author ob-In a paper submitted to the Midland Institute of charge of the Lankersley Rescue Station, the author observed that at times of accident the average miner was served that at times of accident the average nime; was always ready to risk his life in an attempt to save other aways ready to risk ms me in an attempt to save other lives. At the Hamstead disaster, probably the most nves. At the framstead disaster, probably the most severe fest to which any rescue apparatus had ever been severe test to which any rescue apparatus had ever over subjected, scores of the local miners begged to be allow. subjected, scores of the local miners begged to be anow-ed to descend the mine, although it was repeatedly explained that five minutes underground at that time planed that live minutes underground at that time meant certain death to the ordinary unprotected mortal meant certain death to the crumary unprotected motes.

That was convincing proof that we had in this country that was convincing proof that we may in this council, the finest material from which to recruit men for rescue the mest material from which to recruit men for rescue work. The difficulty lay in convincing such men of the value of the rescue apparatus, and the necessity of being value of the re-cue apparatus, and the necessity of being trained to its use in order that men might qualify themtrained to its use in order that men ungut quanty meni-selves for what was, in the fullest sense, a noble and self-sacrificing work, and of the utter futility of trying to do any good on such occasions without apparatus and to do any good on such occasions without apparatus and training. Convince the men of this fact, and much will training. Convince the men of this fact, and much win have been accomplished towards getting them to take nave occur accompanies towards getting them to cano an intelligent and lively interest in the subject. Besides being very brave, the average miner is very conservabeing very praye, the average miner is very conserva-tive. The method of effecting a rescue by means of tive, the method of energing a reacter by means of sheer muscular force and daring, without the aid of a. By flooding with water. When a fire has gain, they view the advent of the rescue apparatus with cered such a hold that ordinary methods fail to put it out, tain feelings of distrust, and it is received into their scientific apparatus, appeals to him most. Miners have a dislike for anything 'new fangled', and, consequently, midst with obvious reluctance. Nevertheless, once they must with obvious reductance. Revertingless, once they realize from personal experience in the practice gallery the true value of an apparatus, they enter into the study of it whole heartedly, practice with great zeal, and speed-

The B. Greening Wire Co., Hamilton, have instructthe B. Greening wire Co., riaminon, nave instructed their architect Mr. W. A. Edwards of the same City ed their architect Mr. W. A. Edwards or the same City to prepare plans for a new Wire Rope Factory. It will to prepare praiss for a new type ractory. It will be a one story concrete and brick structure 124ft, x 112 oe a one story concrete and order structure request fit, with saw tooth coof construction. The flooring will th, with saw toom construction. And the weights of oe some concrete no us to withstand the meights of heavy machinery and large reals of cable. It will be an up-to-date factory in every respect. Orders have been up-to-caste ractory in every respect. Orders have been placed for additional rope machinery of the very latest placed for additional tope machinery of the very mees design, It is expected the new mill will be completed and machinery installed by first November next. present rope mill will be used as an extension of the Wire working branch of the business and will provide much needed room for the rapidly growing demand for their wire guards, garden fencing and bordering, factory

Three Conciliation Boards have declared that the recognition of the U. M. W's, is a matter which rests the selenium rises, so that the current flowing through bearing on the position of affairs. of this Mr. Acklands visit to C. B. cannot have any

#### MARITIME MINING RECORD.

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STELLARTON, N. S.

\* SPRINGHILL

or two of these have been grave and serious e-nough, but never a strike that looked so ominous as the present. 'What is to become of Spring-hill'? is no silly or sensational question. Is Springhill to be blotted off the map of Cumber-What is to become of Spring-Will its stores have to close up. is not merely a serious, it is a solemn question. Is the place, which notwithstanding its many troubles, for a quarter of a century, blossomed stroke. There are very many who are almost despairing, there are a few who trust that joy will come in the morning. The strikers alone will come in the morning. The strikers alone seem to be hopeful. They declare that the holdparts of a scheme of bluff on the part of the company. Are they sure of their ground? We are not alarmists, and yet we are fearful of the outcome if the strike continues. There is no necessity for the company to bluff. making profits.

Record has had no direct communication with the management, but indirectly we are assured that what is contained in this second notice is not bluster, but the actual determination of the Springhill company. The chief cause of the strike is the refusal of the management to recognize a foreign labor union. In former cases of strike the public may not have concurred wholly in the ways of the management, in this instance the sympathy of the public is with the management, and not with the men.

## - Rubs by Rambler.

If asked "What is to be the outcome of the by the U. M. W's has, quite unintentionally, and present trouble at Springhill" one might not lay innocently been laid bare. On the authority of himself open to a charge of Pharisaism if he put a C. B. paper, one of the principal leaders of the on a grave face and replied "God only knows." six who are conducting the campaign on behalf There have been many strikes at Springhill; one of the U. M. W's gave, as a reason why there was a U. B. paper, one of the principal leaders of the six who are conducting the campaign on behalf of the U. M. W's gave, as a reason why there was no strike called at Sydney Mines, that the U. M. W's in that locality were "not strong enough to hurt the company." Just so. That is the idea I held from the beginning of the object of the invasion of Cape Breton. They came not to succor land Co. Will its stores have to close up. Will the workmen, but to hurt it possible the companies bounded by the company and the statement is from one of will the workmen be required to lift their graith the U. M. W. leaders, then it could have been no and for good. What will become of Springhill object of theirs to help the men, for the surest the workmen, but to hurt if possible the companpossible way not to be in a position to help the men is to "hurt the company

The question may be asked, 'was not the statelike the rose to become once again a waste and a ment that they were not strong enough to 'hurt' has the rose to become once again a waste and a ment that they were not strong enough to 'nurt wilderness. Are the hard earned savings of hunthe company only an instance of saying the wrong dreds of thrifty men, and are the investments in thing by a slip of the tongoe.' People will not houses and lands to be swept away as if by a fell think so for many have asserted that the one object of the foreign agitators was to hurt the coal trade of the Province and so hurt the operators. The more harm inflicted on the Nova Scotia operators the better for the operators in the U.S. and ing out, and the threats of a reduction are but the better for the American miners in those sections where trade conditions are unsatisfactory. But whether or no it was the intention of the foreigners to 'hurt' the company, they have succeeded in hurting not only the coal companies but It has for some the province at large. Hundreds of thousands of saty for the company to blain. It has for some the province at large. Hundreds of thousands or years past been losing money in carrying on op-dollars have been lost to the workmen, two or erations. It is losing money now in merely keep-three hundred thousand dollars have been lost to ing the pits clear of water, but its losses at pre-the revenues of the province, and worse than all sent bear no comparison to the losses made when sustomers have been lost for provincial coal, who in operation, the losses made when it should be possibly may be lost forever, for as is well known What possible inducement is tobusiness men a lost customer is hard to recover, there to start the pits again at former prices for and these lost customers have been found by the cutting if the starting and carrying on of oper-American coal operators, whose servants, not-ations is to result in loss? Is the company to withstanding all the protests, the U.M. W's are, continue to lose until it becomes utterly bank- To some extent the American operators, emissar-No sane man will say that the company ies may be hurting the Dominion Coal Co. and should continue under such conditions. At the the Cumberland Ry. and Coal Co., but in a very should continue under such conditions. At the the Cumperland Ry, and Coal Co., but in a very time the men first talked of striking the manage—much larger degree are they hurting the men ment notified them that if they did not return to they profess to be anxious to help. The workmen work immediately none would be given work a in the end will be the mighty sufferers. And it is gain unless at a reduction of ten per cent. The surprising that the men of C. B. cannot see that men are still out and a second notice intimates there can only be one outcome of the trouble, that the reduction will be fifteen per cent. The They will require to go back without a single

point gained-that is some of them. point games—that is some of them. Some will ployees tooth and had mad imported scap lab-never get a change to go back. Their part in the or from Quebec, etc.—He heard that Dennis had strike will amount to a loss of wages, a loss of been remonstrated with as to the Heraid's course work and a loss of honor—a total loss. The eyes in the C.B. strike, and that Mr. Dennis replied he work and a loss of nonor—a total loss. The eyes of some of the men are being opened and they are returning to work. The sooner their example is followed the better. The continuing on w. are beaten now and the leaders know it. The sooner this fact comes home to the rank and file the better. Just as many of those who engaged in the Montreal C.P.R. strike are bitterly regretting it to-day, so will it be with the men on strike at Glace Bay. The future for them is full of re-

The Sydney Post says that the Dominion Coal Co's banks at No. 2 and Bridgeport are reaching the vanishing point and that when these disappear settlement talk from the Record and Gazette may be looked for. All the talk in the world should not induce or compel the Coal Co. to recede from its position of non recognition. If even the surrendered unconditionally at the start. In the to have attended the anging'. long run it would amount to about the same thing.

One travelling by train who is not stone deaf, is bound to hear a lot of things, new, most of on railway platforms, and in divers and sundry places, sorrow. Of course there were many funny things. There were sayings that caused neither sorrow. There were sayings that caused neither sorrow. The talk was desultory and uninteresting for surprise or joy, simply because they were put a time until the statement was made that the down as too silly for anything. In this category Pictou mine managers were hiring Springhill was the statement that James Ross, Pres. of the strikers. This hit me all of a heap and I felt a make overtures to the U.M.W. The information not believe it. Well, said the terms. I could was to the effect that Mr. Ross would do with the basses at Springhill say it is true. On a weighing U. M. W's. in C. B. as they did with them in the fool; he knows better than to take snakes in his RECORD Next the manager of the Acadia Coal tools, he knows better than to take snakes in his fraction. Next the manager of the Acadia Coal bosom. Why if Jas. Ross did such a thing he Co. was informed of the report. In his case there would be only staving off the evil day, would be was a very little in the report, a little truth and playing wholly into the hands of the foreigners, a great exaggeration. Two men and a boy who for the very remotest kind of recognition would had worked at Springhill but formerly were resbe claimed by the agitators as a full surrender by idents of Pictou County had been taken on, but be claimed by the agreetors as a run surrender by idents of Fieton County had been taken on, but the company. If Jas. Ross thought of such a not because they were strikers, or first class minthing, neither Wanklyn or Duggan could coincide ers, or needed to fill agap in the mine, but because they were strikers. thing, neither Wankiyn or Duggan could coincide ers, or needed to mi a gap in the mine, but be-with him for an instant." I put the statement cause they were good ball players, who might down as another U. M. W. fake. From strikes' prove an acquisition to the local team. I was the talk switched off to the Halifax Herald. One very glad indeed to hear there was so little in the gentleman very freely expressed his opinion as to story, for with the public I expect that the coal the course adopted by that paper. He declared operators will show they can be at least as loyal

thought the U. M. W's. would win out, and as that now looked improbable the Herald might bottle its zeal on behalf of the poordown trodden miners. This speaker's final remark was that the Herald's course was almost enough to cause one to disown the Conservative party.

Incidentally Keir Hardie's name was mention-

This brought an Englishman with a very pronounced accent and with very pronounced ideas to his feet, or rather, and metaphorically, he 'took "Keir Hardie,' he said 'ought to be the nort. Reir Hardie, he said ought to be hung. He is a mischief maker. A great deal of the unrest in India must be laid to his door. He is a violent socialist. He believes that no one should have more money, more privileges, more notoriety than Keir Hardie, He has no use for workingmen who do not concur fully with his very remotest kind of recognition is accorded the thing is he spoke so earnestly that one was led to Yes I say his language is seditious and And the queer believe he, without scruple would have been 'appy' Keir Hardie is I could not wish him so ignomini-

I have heard 'strike' talked in railway trains them, some old; and persons are met too, whom and remarkable as it may appear I heard nothing one scarcely expected to meet. On the train from but condemnation of the strikers. Outside of the anontreal the other day I met a man from morien, memoers of the co. at. v.s. and a few most unpate a Mayor of one of the colliery towns, and inother riotic, and wholly selfish politicians, I have not who is familiar with coal operations in the Frov- met a single sympathizer with the course of the fine, besides a large number of 'travellers' whom foreign organization. Whether the public are or I knew not. I heard some things that were an are not acquainted with both sides of the question. I cannot tell, I only state the facts as to what is being said by the people one meets.

bosses at Springhill say it is true, He would receive them as work- ed if they had been hiring on men who had quit ed it they nad been niring on men who had quit men, winking at the knowledge that they belong work at Springhill. Mr. Floyd in answer to the ed to the U.M. W. On this statement being call said it was not true, and that the RECORD made one of the company immediately replied: was authorized to give it contradiction without "I do not believe a word of that; Jas. Ross is no qualification, and this I am gladly doing for the the course adopted by that paper. He declared operators will show they can be at least as loyal it was void of a shred of patriotism and sure to to each other as certain infatuated workmen are ferment strife and ill feeling. It was proclaiming vicious sentiments for the sake of the cents toward the U.M.W. It may be asked by some: "Have you no word of censure for the Dominion men all the while it cared not a straw for them. leaders in the strike at Inversas". My answer is In that mast the Harald had fought its own em. "No." The taking on of the Belgians is a goal. In the past the Herald had fought its own em 'No.' The taking on of the Belgians is a good

generalship on the part of Mr. Duggan. He is a the new company is surely going to mine and sell wonderful strategist. If the old man's heart is coal The promoters realize the prejudice that growing tender he best quit the field and leave it has existed and still exists regarding the quality to Mr. Duggan and his staff. I have said 'old of the coal, cost of min'ng, etc., but persons whose ous lot at Glace Bay and have many grades of old the difficulties heretofore existing have been over-For instance, the boys in the store call McCann their old man. McCann refers to the have a mining engineer of high reputation from youthful looking Revere as 'the old man next the Scranton district installed as superintendent. door'; Revere consigns people he wishes to get Mr. Whitney expresses the opinion that few en-clear of to the dapper G. H. Duggan in these words terprises that have been brought to his attention ing to turn a petitioner plump down lets himself very satisfactory future for the undertaking. off by saying 'that is a matter I must leave the old man to decide', the old man in this case being a quarter of a century younger than Lord Strath-

Some writers in the Halifax Herald cannot see why American capital should be welcomed to now and again new coal fields are being discover-Nova Scotia while American labor, unions receive scant hospitality

organizations coming into a countay

Capital gives employment to labor wherever it comes from

Foreign, American, capital coming into Nova employing that capital to be supervised, dictated to, or interfered with in any way by any other capitalists native or foreign.

American unions in coming into N. S. seek to dictate the policy which the native unions will pursue, and the members of these must conform to the constitution, rules and bye-laws of the invading association.

From every civilized nation capital receives a opment of a country and as without it there would be no emplopment to natives

railway men coming out on contract.

If Japs or Chinese offered to invest ten millions in the development of Nova "cotia's minera \$500 tax on the Chinese to exclude them from

the country, In C. B. it is ridiculous that the U. M. W's. should ask for recognition so long as the compan-ies recognize the P. W. A. Fancy a concern having two rival boards of directors, one set of directors ordering or asking the workmen to do certhat is what the Dominion Coal Co. are saying: "We cannot have two unions; the U. M. W. must give way and get out,

ton capitalist, writes us a personal letter relative ia's records by the Mauritania, though they never

stroke of policy, and is a further display of good to the Rhode Island coal proposition, stating that That needs qualification. They are a curi- opinion can be relied upon assure the owners that come. Within a week the company expects to see the old man, while Mr. Duggan when unwill- appear so great in possibilities. He looks for a

Geologists and others, interested in mineral production may think they know all the places in Nova Scotia in which coal is likely to be found. They may be in error, Scotland is a comparatively small and a rather old country and yet every va Scotia while American labor, unions receive ed. Large seams of coal have been discovered in hospitality.

There is all the difference in the world begroup of Islands. "Operations were conducted tween foreign capital and foreign labor or labor in Ardtuh, some two miles from Bunessan, and after blasting away some rock an extensive vein of superior coal was exposed. It is quite close to the sea, a fact which minimises the cost of pro-Foreign labor as labor or in the shape of the duction and shipping. Prospecting is being con. M. W. gives not employment to a single soul. tinued further up the Island. among the mountains, in some parts of which operations have al-Scotia would not permit its methods or modes of ready been conducted with satisfactory results. There are here indications of a rich field of coal, but owing to the hilly nature of the district greater difficulties will be encountered in transit At the beginand shipment than at Bunessan. ning of last century two gentlemen from the North made some efforts to get coal in Mull, but steam power was then unknown, and the difficulties in raising the necessary capital, and in procuring suitable mining plant and proper means hearty welcome, for it is necessary to the devel- of transit could not be surmounted, and the scheme was a failure. This time the conditions are otherwise. There is said to be every probab-Vast amounts of British capital are invested in ility of the scheme assuming practical shape and the railways of the U.S. It is welcome, and yet of conferring a great boon on an otherwise work-the Americans have an alien labor act to exclude less district."

The Herald wonders if the "government of Canada" is going to allow a private corporation to close a pubals, everybody would rejoice; and yet Canada puts lic utility, and prevent the use of a national property such as coal, with the accompanying loss of royalty." The government of Canada has no choice in the matter. Nova Scotia's coal is Nova Scotia's assett, and the government of Canada has nothing to do but look on. The Cumb. Ry. & Coal Co. are no doubt prepared to dispose of the mine to any government at a reasonable figure. Prof. Shortt, it is said, has become an expert in tain things and the other demanding certain other the matter of cheap coal production. It might be a things. What would the workens say? They good idea for the local government to buy out the would likely say 'we cannot serve two masters', Springhill people and put the genial Professor in one of you will have to give way and get out, and charge. All the other operators in the province would that it is a work of the province would be a support of the province would be willingly look on and learn.

The splendid record of the Louisitania in docking in New York on Thursday evening instead of Friday What will the Free Coal League, all the stock morning is a source of much gratification to the Clyde of which is held by the genial W. C. Milner, say to workmen. Though the workmen have differences with the masters, they are jealous of their masters' reputation. the following, clipped from the Coal Trade Jour- the masters, they are jealous of their masters' reputation-nal: — Henry M. Whitney, the well-known Bos- They felt very zore over the breaking of the Louisitanthe new Cunarder.

#### DOMINION COAL CO'S. OUTPUT INCREASING.

#### (Glace Bay Gazette.)

Many of the men on strike and a great many of the outside public actually believe that the Dominion Coal Company is making no progress in increasing the daily cutput from its collieries. Many of these men believe implicitely in the slogan of the U. M. W. leaders, 'wait till the banks are gone.' Others have become so accustomed to reading the output figures as they are published daily in the Gazette that they do not notice the gradual but sure increase in the amount produced from the collieries day by day, and they think the strike is only marking time, neither side making much progress.

To take the cutput figures in groups or periods and make some comparison may be to convince some of these doubting Thomases that the Coal company is regularly increasing the amount taken from the mines.

A good way to make such comparisons is to take the pay day period, that is, pay day and the two days before, for one comparison and the first three working days following a pay, for another. As everybody knows these days usually give the lowest outputs of any in the month. Comparing these periods at the four pay-days since the strike began will show how the total output, as well as the average daily output has jumped up.

The pay-days since the strike began fell on July 17 and 31, and Aug. 14 and 28,

The total output from the mines for the three days ending with these dates was as follows:

| Inly 17                          |       |
|----------------------------------|-------|
| July 1712,683                    | tons. |
|                                  |       |
|                                  |       |
| Aug. 28                          |       |
| The average daily output for the | 4     |

The average daily output for the same three day periods jumped as follows:

| outy 17 |                          | 4 997  |       |
|---------|--------------------------|--------|-------|
| July 31 |                          | 4,441  | tons. |
| Ang 14  |                          | 5,547  | 4.6   |
|         |                          |        |       |
|         |                          |        |       |
| On the  | first three working days | o, roo |       |

n the first three working days following these pay days, the following amounts were produced from

| July 19-2114,046   | tons |
|--|------|
| Aug. 2-4   | +4   |
| Aug. 16-18   |      |
| The state of the s | 66   |

The latter three days did not show as large an in-1800 tons. Making an allowance of 1800 tons for that

The above figures show that the output has been increased by about sixty per cent. since the lowest level reached on July 8. The same constant and regular rate of increase can be kept up, and by the end of September there is every possibility that the averit was at the middle of July and nearly as much as is of to day.—S. and A. of Mining.

doubted but that the former after a fair trial of her new now being got from mines and banks attogether. Screws, would again lead. Their faith has been justi- These figures can prove pretty exclusively that the company is gaining all the time. Instead of the company is gaining all the time. Instead of the company is gaining all the time. will be all filled away, if there is any worrying to be done it will be by the men who stay out until the average daily output reaches about nine thousand tons, and who then, with winter close at hand, go looking to get their work back, only to find that all the coal that can be sold for some months is already being pro-

#### TREASON

What has happened in Nova Scotia? happened: Under the name of trades unionism every This has one of the protective barriers erected by our legislators against the encroachments of the United States has been swept away; a direct attack has been made upon our coal industry by alien strike leaders engaged and aid in the United States out of the funds of a United States corporation, and the result is that American coal is now being unloaded in Sydney harbor, while some three thousand Nova Scotia miners are idling on the streets of Glace Bay and Springhill We have said that this has been done in the name of trades unionism, but in reality what has happened is tantamount to sedition and to treason, which has been fomented by allen enemies who have conspired against our trade and to destroy our native institutions. That these enemies of our country have been helped in their work of destruction by some misguided citizens of Canada may add to the irony of the situation, but does not minimize the menace.

The policy and the actions of the United Mine Workers of America in N va Scotia have not been those of a legitimate trade union, but they have been predatory, and foolish withal, and are calculated to work great harm to the proper aims of trades unionism. It is not calculated to advance the interests of labor for a powerful union to embark upon a policy of extermination against a smaller one, and this is what the U. M. W. A. have done,-(Sydney Record.)

#### THE EVOLUTION OF LOCOMOTION.

In the space of a hundred years marvellous changes have been witnessed in modes of travelling in this Railway locomotion has made great strides since Hedley's 'Puffing Billy' started running at Wycrease, on account of No. 1 not having been working ed three locometives, and although these engines served their purpose well, the credit of constructing the would bring the total output for those three days up to deorge Stephenson, who, on July 25th, 1814,—ninety five years ago-placed the first engine of his own design on the Killingworth Colliery railway. It drew eight loaded waggons, weighing eighty tons, up a gradient at the rate of four miles an hour. 'Blucher' as this engine was called, and the passenger coaches that age daily output from the mines will be double what side the mighty main line enginee and carriages de luxe

#### AMERICAN COAL IN N. S

American coal still continues to pour into Cape Breton, and, worst of all, a new order is being placed with the American coal barons for a further supply of sixty thousand tons for the Dominion Steel Co. This is "carrying coals to Newcastle' wit a vengeance, and, by the way, is in complete accord with the wishes of certain American strike agitators. The first contract made by the Steel Company for one hundred and twenty thousand tons of soft coal with the Philadelphia operators is about half delivered, the arrival in port on Friday of the steamer Dominion with 6,800 tons, making a total of 30,800 tons of the 120,000 ton order. The additional 60,000 ton contract with the Philadelphia concern w'll place the big steel plant in a position whereby its interests will be safeguarded till spring, but which time it is expected the strike trouble will be a thing of the distant past, and, it is hoped, it will prove of sufficient significance to our local coal miners when questions involving the interest of themselves and the Cape Breton public. It is a sad commentary on the present unfortunate strike at Glace

Not only are the Americans making inroads into our principal industry right here in Cape Breton, but they are seeking to capture the Newfoundland trade. According to the St. John Telegram a local firm there that consumes a large quantity of coal each year had a cablegram from an American coal company last Saturday soliciting their year's order. It is now generally believed that the strike at Glace Bay had at the back of it the wire pulling of the American coal companies. They are most anxious to get hold of the Newfoundland coal trade, and this was their opportunity. Passengers arriving at St. Johns say that the U. S. coal companies are behind the U. M. W. and are most anxious to get the Newfoundland coal orders. The sending of a cable by a U.S. coal company Saturday seems to confirm this opinion.-North Sydney Herald.

#### BRIQUETTING N. S. COAL.

Referring to an article which appeare I in the Record a few weeks ago in reference to the Devillers Briquetting machine, Mr Devillers writes:-- "As no doubt you are interested in the briquetting of the Nova Scotia coal, I take pleasure to inform you that I have succeeded to briquette into square briquette the rewashed coal of the Dominion Iron & Steel Co. of Sydney C. B.

This rewashed coal having been sent by the Dominion Co, to my European plant in June last for experimental purpose, contained 33 p. cent volatile mat-ter and about 12 p. cent meisture. It arrived the latter part of July at my plant entirely dry, and to have the coal exactly the same as it is at the Dominion Co's works, after it is washed, I rewashed it at my plant to obtain approximately the same moisture and have worked it with 16 p cent. moisture, and have turned it into a square briquette which can be handled as soon as it comes out of the too, that they are not likely to ever come back press and put in cars or in storage or in the fire with- gain. out desintegrating.

The cost to manufacture the square briquette from the Nova Scotia coal will not exceed seventy cents per gross ton at the actual market value of the binder in

Nova Scotia.

These briquettes have the advantages of burning longer than the coal from which they are made, giving more heat and not requiring so much space for storage as it requires 36 c. f. to store one ton of loose coal and only 18 c. f. to store one ton of these briquettes.

It is the first time to my knowledge that soft coal having 33 p. c. volatile matter and 16 p. cent. of moisture has been briquetted successfully and there is no doubt that the Nova Scotia coal can be briquetted with a commercial success and will find a ready market for locomotives, factories and steamship companies. I trust this will interest your readers."

#### ELECTRICITY IN MINES.

The annual excursion of the Mining Institute of Scotland was held lately, when an opportunity was taken to visit a part of the works of the Lochgelly Iron and Coal Company, where an extensive electrical installation has recently been made at a cost of about £60,000, The company own ten pits, and the electricity is being generated in bulk at the Nellie Pit, near Lochgelly Railway Station. The attendance of members and associates numbered nearly 300, and great interest was manifested in the work of the Lochgelly Company. At a luncheon provided by the company, Mr. George Mitchell, one of the directors, presided. Mr. Robert M'Laren, Chief Inspector of Mines for the Eastern District of Scotland, remarked that the system which existed at Lochgelly was the first in Fife. Neither money nor brains had been spared to produce a satisfactory job, and personally he hoped the visitors would take some hints from what they had seen, and that if they had any old installation at their mines they would get rid of it and introduce something like that at Lochgelly. It must be recognized that many of the installations of comparitively recent date were already obsolete. The sooner the present state of matters was remedied the better would the coalmasters be able to keep their place in the mining industries of the world. The Lochgelly Company were cordially thanked for their courtesy and hospitality.

The Star:-"Mr Alexander Johnson, former member of Parliament from Cape Breton, who was at the Windsor, reports that the strike at Glace Bay "is settling itself."

"There is nothing now to be done," said he, "but to wait for the end. The men are gradually breaking away from the United Mine Workers and coming back to work.'

"Did Premier Murray intervene to negotiate for a settlement?" was asked.

"No," was Mr. Johnson's reply, there was no need to negotiate; the strike is settling itself" Mr. Johnson looks upon the victory of the com-

pany as a permanent one. "The foreign organization had to be driven out sooner or later. It is being done so thoroughly,

The strike will soon settle itself without outside interference.

## AROUND THE COLLIERIES.

A further descent into the old Bye-pit works near At lurther descent into the old Bye-pit works near the Foord pit corroborates previous statements that the train of 108 loaded 50 ton coal cars, a distance of 103

The Montreal Star, and other leading papers, on frequent days omit all reference to the Dominion Coal Co, which affords proof that the papers think the strike is past petering out.

And now it is stated that the old Foord pit will have And now it is stated that the old roord pit will have ming out, and that in the course of three or lour weeks to be pumped out so as to admit of further extensions the strike will have collapsed, and as the Senator says and developments at the back mines, and perhaps also so say they all. of the Allan Shafts.

All in Shafts have been permitted to shift to the Vale. generosity is for nothing. They had objections to the manner of entrance into their places, not being accustomed to it.

A party who visited Inverness during the strike fiasco was astonished at the physique of Belgian women. They were broad shouldered and all of a size and were 'terrors.' Their husbands were second fiddles only.

They marvel in the United States at having put seven thousand odd tons of coal into a steamer, at Newport News in eight hours. Let some Americans come to C. B. and see coal being loaded at the Whitney pier, and get a genuine surprise.

The P. W. A. men at Inverness were not captured by the blandishments of the imported orators. men of the P. W A. and the management at Inverness are to be congratulated on the manner in which they League.

coal in the Anthracite regions is eight per cent of the total output, and in the bituminous mines two and a

The U. M. W. spouters talk of the United Mine Workers as a great international association, solidly united in all its parts, the object of the leaders being the advancement of the members and not their own aggrand-advancement of the members and not their own aggrand-izement. Is that so? Last year there was a keen fight between Levis and Walker for the presidency, the forner winning by some 2000 votes only. Now there is another fight on. Wm. Greene, president of the State organization is now a candidate for the presidency of the whole organization. It is said he will have the sup-port of the Mitchell faction. There are some in Nova Scotia who believe in the old assertion that a house divided against itself cannot stand, and yet into this house which gives indications of decay, have many of our Nova Scotia miners be n inveigled.

miles in a little over eight hours. We can haul 'some' in C. B, but as yet there has been no attempt to haul a five thousand ton train of coal.

Senator McKeen, who is not so much in love with the Dom, Coal Co., as in days of yore, is still unprejudiced enough to declare that the coal company is win-

The Pictou Collieries suffered some in August in thousand families will average six to seven dollars per way the men. It is expected the men will soon begin to settle down to work.

A writer in the Herald says that the support for a family per week, or say a total of 88,500 per week from the funds of the U.M.W. These foreigners must be men of springhill. It will be suffered to some full benefit say money from the men of Springhill. It will be suffered to some full benefit says money from the men of Springhill. be awful hard to convince the public that this lavish

It is anticipated that as a result of lowering the duty to twenty five cents a ton there will be increased imports of foreign ore to the United States The Nova Scotia Steel and Coal Co will likely be large sharers in any benefit to be derived from the lower tariff on ore, as next to the United States Steel Corporation they have the largest deposits of ore-presently worked-in the

Dr. Cook says there is plenty of coal at the North Pole We are not alarmed Transportation difficulties and the difficulties of removing mountains of ice in order to get at it, will render any attempt of the North Polers to secure a footing in the Montreal markets impossible. Any little quantity that may find its way into Halifax will not help the grumblers of the Free Coal

In the United States the colliery consumption of locality and shortly after went to work in another, is that the U. M. W. failed to make good. The ten dolhalf p. cent. These figures should make some of our cannot be affirmed, was not forthcoming and they lars a week they expected, whether promised or not could not understand why they should be happy idle with five dollars, while the man at work was making

One of the Quebec papers has it that the output of the Maritime Ry. & Power Co. is 1500 tons a day and that the installation of endless haulage will double this output. Is this not going it a little strong. cord is pleased indeed to note the progress of the company, but exaggerated statements in the end can only lead to disappointment and to the rejection of honest statements. When the annual reports come to be published the public will be disappointed to find that the years results are not up to what the press led them to believe they would be. The Record is optimistic, but cannot at the same time see that any good comes of in-

#### AROUND THE COLLIERIES

The operators individually and collectively are

The coal shipments for August are not all in so we will publish July and August shipments next issue.

Six thousand six hundred and ninety two tons of coal were hoisted from the Dom. Coal Co's pits on Tuesday last.

A large number of new comers are arriving at Glace Bay to work in the mine. A hundred and eight arrived on Tuesday night.

brought down weigh a ton and a half.

The Vale colliery has been put on double shift. The output is now 500 tons per day, There are lots of places there still waiting to be filled.

The new mine at Little Bras d'or expects to begin the province would be rushed with orders. Curiously coal shipments the latter part of this month. About this is not the case. There is only a moderate demand that time there should be a big demand for their pro- for coal as yet.

and his brother are saving-and they use a word not found in an ordinary office dictionary-that the strike some. September will add its quota of increase which at Glace Bay is "petering' out.

The North Atlantic Collieries Co. are increasing buoyant. their output, which is now between four and five hundred tons per day. The company has two steamers freely employed. The output for the year will show a gratifying increase over 1908.

It is stated on the authority of a Pa. miner, now working for the Dominion Coal Co that a thousand miners and their families can be secured in Pa. by the Dominion Coal Co for the asking. In certain sections of the U.S. the pits do not average three days work per weck.

The U. M. W. agitators in C. B. led us to believe that they had an eight hour day in the United States, and that one of the blessings(?) to be conferred on the C. B. miners was an eight hour day, as if the C. B. miners now worked a longer day. But Pres. Lewis does not ciaim they have an eight hour day in the United States. Speaking to a gathering of miners at Barnesboro Pres. Lewis said, "I will not be satisfied until we have an eight hour day, with five days work a week, because locality where there is a strike, to be called I desire to see the working men have five days a week they called the loval workmen at Inverness. for labor, one day for God, and one for humanity." games. Does one day for God mean a return to Pharisaism ?

The furnace of the Nova Scotia Steel & Coal Co. at hopeful that the pic nic season will soon be declared off. Sydney Mines is doing fine work, turning out an average of 170 tons a day.

> Thomas L. Lewis has issued a statement saving that he will be a candidate for re-election to the presidency of the U.M. W. next fall, and denying the reports that serious dissentions have grown up in the ranks of the organization since he has been in office.

The Nova Scotia Steel & Coal Co. did well in its shipments of coal in August which exceeded 91,000. At the Vale there is a pretty face of long wall The management look for shipments of a hundred some 2400 feet in extent. Some of the pieces of coal thousand tons, by far the biggest shipments in the company's history.

> One might think that owing to short shipments on the part of the Dominion Coal Co., and the entire stoppage of work at Springhill, the remaining collieries of

The shipments of the Nova Scotia Steel & Coal What everybody says must be true, and everybody Co. for July and August exceed those of the same two months of last year by 48 000 tons. This is going it is expected to reach over 40,000 tons. Whatever may be the case with the shares the shareholders should be

> Since 1903 Seaman Terris, one of the Springhill strike leaders, made the following

| min antino to | aucts, m | auc me | LOHOY | THIS Y | verg co   |
|---------------|----------|--------|-------|--------|-----------|
| Year          | Day      |        | ked   | -      | Wages.    |
| 1903          |          | 2661   |       |        | ,\$978 00 |
| 1904          |          | 260    |       |        | , 968 00  |
| 1905          |          | 233 .  |       |        | . 842 00  |
| 1906          |          | 2284   |       |        | . 850.00  |
| 1907          |          | 1691   |       |        | 714 00    |
| 1908          |          | 225 .  |       |        | , 703 00  |
| 1909          |          | 136    |       |        | 480 00    |
|               | _        | 15181  |       |        | 5695 00   |

Equal to an average for the 7 years of \$3.75. How much more would Seaman Terrace want?

The fact that the Inverness Ry. & Coal Co. shipped 19,577 tons of coal in August furnishes convincing proof that the strike called there by the United Mine W ers was an ignominious failure, a miserable fiasco. The noisiest of those who came out on strike have gone to a locality where there is a strike, to be called there what they called the loval workmen at Inverness. This gives an idea of the kind who constitute the membership of Funny religion, that of Lewis. One day each, only, for the foreign society. They are infinitely worse than God and humanity, and out of God's day would 'scabs,' they are traitors. The time is coming round come American base ball and other brain racking and coming soon when the Dominion Coal Co., whether in need of men or not, will have no place for a man who took any known part in the strike.

#### PROVINCIAL GAS COALS.

#### (Gaslight Journal.)

The existence of the immense coal deposits of Nova Scotia and Cape Breton was first made known in a French work, published in 1672, by the then Governor of Cape Breton, Nicholas Deays. In 1654 that official was granted a concession by the French Government to 'Search for and work all mineral deposits of the is-

Under this grant some trial shipments of coal were made to France, but no systematic efforts were made to develop these valuable deposits until about 1720, when the celebrated Fortress of Louisburg was being erected by the French government; the fuel necessary for the large force employed in this work was obtained from a coal seam on the north side of Cow Bay. In 1724 a vessel was reported as having 'loaded coal at Cow Bay for Boston,' but the bulk of the product for the next 30 years appears to have been limited to the wants of the Fort at Louisburg and an occasional shipment to Halifax.

In 1826 a lease was granted by George IV to the Duke of York for the working of all the mines and minerals of Nova Scotia, which at that time included neither the means nor the ability to work the mines on his own account, he transferred the lease in 1827 to a company, which had recently been organized in London under the name of The General Mining Associat-

The only gas coals available to this association were those from the Albion mines, at Pictou, and the Lingan Mines in Cape Breton. As the latter were not operated until 1855, the Albion was the only Provincial gas coal obtainable prior to that date.

The records of the association give the annual shipments of this coal to the States, but as a large percentage of the quantity reported was used in iron manufacture and foundry purposee, it is difficult to form any reliable estimate of that which entered into the manufacture of gas. It was used in the Boston works in 1838, and continued to form part of their supplies from that time forward until 1875, when its use was abandoned by that company.

The same energetic, far seeing bu iness man, who According to a Press report a sate lock has been inventhad organized the first regular steamship line between ted, which is provided with phonographic mechanism the agency for the sale of the coals controlled by his company in the hands of James P. Melledge and Thos.

Literature is boing distributed by persons connected with one of the Rhode Island coal mines advising

The report of the Inspectors of Mines on the disastrous explosion at West Stanley Colliery, Durham, on February 16, by which 168 lives were lost, has been issued in the form of a Blue Book. Dealing with the original point, and possible cause of the explosion, it is stated that it appears fairly certain that a small initial explosion, or mere putt, was succeeded within about fifty seconds by a much more extensive and severer explosion, which did practically all the damage and which was projected from seam to seam. Where either of the explosions originated they are not prepared to say, but clearly it was not in the Tilley seam. The main explosion may have been initiated by an explosion of gas, but was undoubtedly propagated by coal dust. What the means of ignition were the inspectors cannot say. They add: - "We are anxious to emphasise the impression made upon us in investigating this and other explosions that unless the grave danger which exists at many collieries, owing to the presence of coal dust. is attacked with much greater earnestness in the future then it has been in the past, disasters of a similar character will occur from time to time." The report in conclusion says: - 'It is gratifying to be able to state that throughout a long and exhaustive inquiry no breach of the Coal Mines Regulation Act or special

"You ought to go to Dr. Squills with that cough of yours. He'd put you right in a couple of days." How much does he charge" inquired the sufferer. 'He charges two guineas for the first visit and five shillings afterwards' replied his friend. Two guineas! was the roply. Too much. I can't afford it. However, on the way home he thought it over, and next day presented himself at Dr. Squills's. Good morning doctor, he said; 'I've come again about this cough of mine.' 'Good morning' replied the doctor; I don't seem to remember your face. Is your cough any better now? It does seem a bit easier. By the way, doctor, how much do you charge me this time? Oh, the usual five shillings.' The fee was handed over. The doctor put it in his pocket and continued, Well, now, keep on taking the same medicine, and call again next week, You're getting on very well.'

Liverpool, Halifax and Bo-ton, in 1840, the Hop. Sam. so that it can be opened only by the voice of the owner. uel Conard, was then at the head of the General Min. A mouth piece like that of a telephone takes the place Visiting Boston in 1845, he placed of a knob on the door, and this is provided with the uscompany in the hands of James P. Melledge and Thos. Sound record of the phonograph symmet. Detect the Tremlett, two well known merchants of Biston; names safe can be unlocked the password must be spoken into familiar to the ras making fraternity of 50 years ago," the cylinder by the one who made the original record. ual style or needle, which travels in a groove in the

The Maritime Coal, Railway and Power Co. have let contracts to the Canadian General Electric Co. for a new unit to be installed in there power house at Chigneeto, N.S. This machine will add 750 h.p. to capacity of the generating station. the public that the profits on the coal will amount to The business of the Maritime Co. has increased \$3 a ton. This is a broad statement. Even if a pro- to such an extent during the past 18 months as to fit of one quarter the amount was to be had, operators necessitate the installation of this new machine. from other States would gobble up the mine at almost The power will be extended and the work will be any price. It is estimated that the output will be one rushed. The steam engine will be supplied by and purce. It is estimated that the output will be one rushed. The steam engine will be supplied by thousand tons a day, but there is no statement made the Robb Engineering Co., and will be of the lat-



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| Read Down                     |  |  |                  | WESTBOUND   |        |       |    |  |
|-------------------------------|--|--|------------------|---|--------|-------|----|--|
|                               |  | STATIONS.  | Read Up          |   |        |       |    |  |
| No. 52<br>a, m                | No. 54<br>p m  |  | 2                | NO. 51  | N      | O. I  |    |  |
| L 10 45<br>8 10 51<br>A 11 10 | L 3 50<br>8 3 55<br>A 4 08<br>L 4 13<br>F 4 5 8 4 38<br>F 4 50<br>8 5 05<br>F 5<br>A 5 33<br>8 6 16<br>8 6 28<br>8 7 02<br>A 7 15<br>p m | P. TUPPER JUNCTION PORT HAS KESBURY PORT HASTINOS TROY. CREIGNISH JUDIQUE CEAGIONISH JUDIQUE CEAGIONISH FORT HOOD GLENCOR MABOU GLENDYRE BLAGK RIVER STRATHLORNE STRATHLORNE STRATHLORNE STRATHLORNE INVERNESS | ASLAFSFSFLASSFSL | 1 · · 3:<br>10 27<br>10 02<br>10 02<br>9 39<br>9 22<br>9 00<br>8 48<br>8 32<br>8 27<br>8 10<br>7 40<br>7 25<br>6 45<br>8 48 | 8<br>L | 3 3 3 | 35 |  |

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Coal miners generally believe that black is any mix- necessary to support combustion, and a percentage of ture of gases which is heavier than air, non-explosive, fire damp above the explosive limit. extinguishes a lamp, and does not cause any noticeable effect on the miner when mixed with sufficient air to allow a lamp to Burn. In investigating this subject it has been found that an atmosphere, which is extinctive to Clyde for the Australian Government, at a cost of lamps, may be lighter than air. Such a condition may £236,000. Twenty Australian artisans are being sent occur when the atmosphere is a mixture of nitrogen and carbon dioxide, in which the quantity of CO2 is so small that the mixture is lighter than air. A similar condition will exist it the mixture contains less oxygen than is methods of naval construction.

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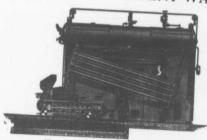
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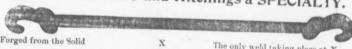
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