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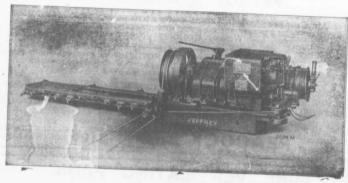
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Vol. 11, No. 9.

Stellarton, N. S., Nov. 11th, 1908.

New Series

SELECTED QUESTIONS AND ANSWERS.

GEOLOGY.

Q.-What is pyrites? Where is it found, and what are its characteristics?

A .- Iron pyrites is chemically known as bisulphide of iron cr FeS2, most commonly called coal brasses. It is a compound of sulphur and iron and certain metals, sometimes called firestone because of its hardor because it decomposes spontaneously, developing a considerable revolution of heat.

Iron pyrites is commonly met with in and near to the coal measures. In some districts it is very abun- men? dant, but in others it is scarcely met with.

It has numerous characteristics, being a compound of iron and sulphur, and is sometimes used as a source of sulphur in various manufacturing processes, such as sulphuric acid manufacture. If allowed to weather it is converted into copperas or green vitriol. The sul-phur of the pyrites will also take up oxygen. and form sulphate and free sulphuric acid.

It is very undesirable in fuel, not only on account of the corrosive and noxious gases it produces, but because the remaining iron which in the form of an oxide fuses with the silica of the coal ash and forms clinkers; in coking and gas making, the sulphur which is in organic combination is converted into bisulphide of air. When the iron pyrites is found in the shales overcome by after-damp or some other accident occur. in abundance it is largely used in the manufacture of pyrites is converted into ferrous sulphide, which is a ing alum. This is the double sulphate of aluminium used.

In some instances, notably in the Jurassic system in turn fired the cliffs.

Briefly, the characteristics are-an affinity for would again divide into two, three or more shifts, so

oxygen; an objectionable and offensive odour; it decomposes very readily and develops a considerable amount of heat during such decomposition; it is of an objectionable nature in fuel owing to its clinking propensities, and its destructive action upon the firebars, etc ; when found in coal seams the quality of coal is reduced owing to its presence.

VENTILATION

Q-How would you set about restoring the ventilness, and capabilities of striking fire under concussion, ation in a mine where an explosion of fire-damp or coal dust has occurred? The doors and air-crossings are destroyed, but the fan is intact. What precautions would you take to secure the safety of the working

> A-The above question seems to suggest that the preliminaries necessary in cases of this nature, such as communicating with the inspector of mines, calling together the under officials, etc., have been made. gathers too, that inspections have been made both above and below ground, as the condition of affairsthe doors and air crossings are destroyed, but the fan is intact-both above and below ground are stated in the question. As the question only requiries the restoration of the ventilation with safety to the working men, it is unnecessary to say anything here about 'rescue work' as that subject has been much dealt with in this Journal.

One of the first of the many items to be attended of carbon through contact with the heated carbon dur-to at the surface is to see that medical aid is at hand ing the process of combustion with a limited quantity in case any of the men working underground may be

The provision of a good quantity of materials necalum in the following manner; —The shales are excessary for the underground operations should be arposed to the effect of rain and moisture, then the iron ranged for, and see that there is a sufficient number of hands at the surface to send the materials down the compound of iron and sulphuric acid, and sulphuric mine at the shortest notice, and that special persons compound of the sulphuric anhydride acts upon the be appointed for the preparation of the materials be-alumina of the shale, and forms aluminium sulphate, ing sent down. It would also be necessary to see that to which either potash or ammonia is added, thus form the proper persons were stationed at the winding engine, fan engine, pit head and other departments, so and either potash or ammonia, according to which is that these particular duties would be carried out in a truly satisfactory manner.

Having seen those items carried out to my satison the sea coast of Dorsethsire, the oxidation of the faction, I would now set ab ut forming parties of the iron pyrites generates sufficient heat to ignite the bit- most practical and experienced men at my disposal. uminouc shales. These shales are found interstratified The parties to be made up of four five, six, or more in the Kimmeridge clay, and, owing to their richness man. These parties I would divide into two classes, in carbon, they have been largely used for fuel; the viz., the working parties, and the bearer parties; the oxidation of the iron pyriter has generated sufficient working parties to work on the ventilating arrangeheat and has set fire to the bituminous shales, which ments, and the bearer parties to convey materials to the scene of operations. The two classes of parties I

to say, one of the shifts only in the mine at one time, have been completed, and the air having taken its the others to remain on the surface ready to take their usual course, all the noxious gases would soon be comderground. The working parties I would place under the care and leadership of the under officials, and the bearer parties I would place under the leadership of the most cautious men, who are capable of leading, and who are the most acquainted with the travelling roads underground; a list of the names of the parties and leaders should be taken. A number of plans of each district should be drawn out roughly but accurately, and given to the leaders when necessary; the plans to mark the position of the doors, air-crossings; etc., and the direction and course of the air-currents,

Having seen also that there was a sufficient supply of refreshments, and that each of the men going underground was provided with a good safety lamp, I would now proceed down the mine, entering by the down- a great deal of time. east shaft. Arriving at the shaft bottom with the parties selected for the first shift, and whilst the parties are waiting for the materials to be sent down, I would make an inspection of the connection with the the lamp on the hook, or if an error had been made in return air-way nearest the shaft in each split—if the the survey I would have these fixed points to go back splits were made right at the shaft bottom. Return- to and check the survey. ing to the shaft bottom, where the men would now be ready and waiting my return, I would give the leaders of the parties the following instructions, with strict orders that they be carried out to the very letter: it, and then direct my telescope until it is approxim-)1) That the officials operate in their own district, and ately in the line of sight with the first lamp, and is with which their leader is best acquainted (2) that the be adjusted to the line of sight by the slow motion leaders are not to let their men work in the return air, screw fitted below the horizontal plates. but to keep always in the intake; (3) not to work more than the specified time, and should the men become exausted before that to return to the surface at once; (4) to report to me from time to time during the rectly by the slow motion screw, and then read both shift, by the bearers or one of the party, how things verniers, which will give the angle between the first are proceeding; and should anything particular crop and second lamps. Lift the telescope out of its verticup in any district, which would require my special at- al axis, and reverse, and then repeat the operation amay visit that particular place and give the necessary instructions

I would station myself in the most convenient place in the mine to receive reports from the different face plan can be done in two ways-by magnetic merdistricts. In case of being called away to any district, my visit there would be as brief as possible, but sufficient, less my presence and attention may be needed in any other district.

ful carrying out of the operations, the actual work of connection with the underground. restoring the ventilation could now commence. Beginning with the destroyed doors and air crossings nearest the shaft, in each split and with a good quantity of props, bars, deals, brattice cloth, air pipes, nails tools etc., at hand temporary arrangements could be expeditiously set up. These temporary arrangements should be so placed that the permanent ones could be completely fixed up without removing them. whilst the parties fixing up the temporary doors and air crossings would be well in advance, parties for the on at the same time, thus restoring the ventilation to its normal state with the least possible delay

pletely carried out of the mine, which in a few hours would be in a fit state for working and travelling in,

With regard to the safety of the working men, I believe that if the instructions mentioned above were carried out thoroughly, the workmen would be exposed to very little danger indeed, as they would be always working in fresh air.

SURVEYING.

Q .- How would you make a survey with a theodolite in a working driven to the boundary, and how would you proceed to connect it with the surface?

A.—The first thing I would do would be to arrange my sights so long as I could get them, without losing

Having got these fixed points, I would have a hook put into the roof or timber, so that when I was ready to start my survey it would only be necessary to put

The next thing to be done is to set the theodolite up between the first and second stations,

Unclamp the vernier screw, rack your instrument approximately in line with the second lamp, the bottom plate being stationary. Adjust the telescope corgein, which should give you the same reading

The above process to be carried out until the whole the survey is done.

To connect the underground workings to the suridian, or looking up the shaft and then at some fixed object on the surface. All that is necessary is to make the underground survey to some fixed point such as the shaft, which is certain to be on the surface plan. After all the above arrangements and precautions Then you can draw your magnetic meridian, and plot have been made, which are of the utmost importance your survey from the shaft in-bye. If great accuracy to the safety of the working men and for the success- is required. I should make a survey of the surface in

THE BRITISH GOVERNMENT AND THE UNEMPLOYED.

Mr. Asquith delivered his eagerly anticipated statement in the Commons on the unemployed, in answer to a question by Mr. Henderson. At the outset, how-Then, ever, he made it abundantly clear that the attention of the Government is given for the moment entirely to the special question of immediate urgency. Its propurpose of erecting the permanent arrangements could posals, he took care to explain, are limited to tiding begin work, and the two operations could be carried over the distress of the present and of the coming months. They are not intended to go to the root of When all the permanent doors and air crossings posals amount to this. Sanction has been given to Roughly outlined, the Government's pro-

The Central Grant of last winter is also to be doubled, alluded to the question of rescue apparatus. there is much ingenuity in the proposals of the Govdane, and the augn entation of the loan to local authorplied to the Local Government Board to sanction loans such arrangement might be made without delay. amounting to £1,500,000 to be expended on additional public works, and many of them have hastened the execution of works sanctioned in previous years. In addition, considerable sums-Glasgow leads the wayhave been raised by voluntary subscription. The outlook for the unemployed is therefore distinctly brighter. There are now many agencies at work apart from what the Government intend doing, and there are signs of a revival of trade Orders, apart from those of the Admiralty, have been received by Clyde shipbuilders, and it may be that the winter, which so many poor people have dreaded, will not be so bad after all. That the Government have done their best; that they are in earnest in trying to alleviate the sufferings of the poor is evidenced from the attitude of the Labor party; but we trust that Mr. Asquith will be able before this Parliament ends to strike a real and effective blow at the cause of unemployment in this country.-Glasgow Mail.

LIFE SAVING IN MINES.

Recently, at Leeds, Sir Henry Cunyinghame, in proposing the toast of the 'Mining School of the University of Leeds," alluded to the experiments to test Colliery, if they proved successful, as the most valuable or in some other way, was capable of resisting the meet requirements for some eight weeks. All that it flame of an explosion. If that could be done, isolated is necessary to do is to install the charged cylinder in zones could readily be established where it was pract he receptacle supplied for the purpose outside the tically impossible to keep a whole mine free from dust. building, connect it up to a small tank in which the The cost of isolated zones would be less, and a greater pressure is regulated, ann then admit it to the ordinary measure of safety would be secured. The newspaper piping system of the house. When a cylinder is

local authorities to borrow something like £1,500,000 before Mr. W. E. Garforth, and those associated with for new work. The Post Office will take on at Christ- him in this work, could really say that complete sucmas 8,000 extra men; the War Office are prepared to cess had attended their experiments, and that the proaccept 24,000 men for the special reserve; and the blem had been really solved. Still, they could say Admiralty, by a change in its programme, will spend this much, that its solution never looked so hopeful as an additional £2.000,000 on work in the dockyards, at the present moment. Sir Henry Cunyinghame also thus making available the sum of £300,000. As Mr. quarters there seemed to be an opinion that the rescue Asquith himself admitted, all these schemes are mere apparatus was such a triumphant success that there anodynes and temporary palliatives, but considered was nothing now to be done but install it in every solely as a temporary effort to meet a pressing need, mine in the country. He himself was a strong advocate of this apparatus, and he believed it would ultimernment. The employment of extra hands at the ately prove successful, just as he believed before long Post Office-there are always a veral thousand extras' we should have flying machines successfully flying employed at the Christmas season-will got do very within limits; but he did not think that complete sucmuch. The main provisions of the scheme are those cees had yet been achieved, or that the time had yet relating to the acceleration of the naval construction come for the Home Office to order the establishment programme, the special enlistment device of Mr. Hal- of a rescue apparatus at every colliery. What he would like to see established at every rescue station From the reports already to hand there is good was a properly organized system by which men trainreason to believe that the Clyde yards will profit fairly ed in the use of this apparatus could be ready at a extensively by the Government's decision to hurry on moments notice at any time to go wherever there was the work of building cruisers and destroyers. Only an accident. A scheme should be drawn up fixing the last Friday Mr. M'Kenna paid a high tribute to the payment to be made to these men, the insurance of the Clyde shipbuilders, and hinted that when the orders men, and the fund from which compensation should were given out they would not be forgotten. It is in- be paid to them in case of injury, and every colliery teresting to note from Mr. Asquith's speech what the should know just where they could get the men the municipalities are doing. Since August they have ap- moment they were wanted. He earnestly hoped some

A recent development in Germany should offer great possibilities in this country. says Chambers's Journal'. This is the supply of gas in cylinders adopted for the lighting of country houses and rural districts. The gas has been invented by Hermann Blau, a chemist, and is distilled from oil and other materials. Manufacture is carried out upon new and novel lines. The oil is fed into the retort and distilled at a lower temperature than that employed in coal gas manufacture. The by products are secured, and the gas cleaned and scrubbed in the usual manner. It is then compressed at great pressure in cylinders similar to those employed for the transportation of oxygen, the effect of this pressure being a liquefaction of the gases. The permanent gases which distilation has yielded, such as hydrogen, methane, and carbon monoxide, the chief constituents of coal gas, are then dissolved to the required extent in the liquid gasses. When the pressure is relieved the liquid volitauses, carrying off a certain proportion of the gases which were dissolved. The light obtained is of great brilliancy, while the gas is perfectly pure and harmless. The cylinders are of varying lengths and capacity, it being possible to acthe explosive power of coal dust carried out at Altofts quire a small vessel holding one pound of gas suitable for travelling, boating, or camping out expeditions, up mining experiments ever carried out in the history of to large reservoirs containing heavy supplies suitable coal mining. The object was to prove whether an is- for extensive country seats. The medium size, adoptolated zone in a pit, isolated by stone dust or water, ed for use in small villas, will supply enough gas to writers, he thought, had taken a somewhat too sangu- empty it can be easily and quickly disconnected and a ine view of these experiments, and, in his opinion, a full cylinder replaced, the empty one being returned great deal more careful experimentation was necessary to the works for a fresh charge. There is no possibil-

ity of explosion, and no technical knowledge is necessary for its manipulation. In Germany several vill-charge than is required to do the work satisfactorily) ages are being lighted upon this system. The distrib-should alsa be avoided as unnecessary and dangerous. to a small hut in which the gas cylinders are placed, recommendation. The only attention required is the changing of the cylinders as they become exhausted. The system is cheap, highly efficient, and free from danger, and even the smallest villiages can become possessed of a complete gas distribution plant at a nominal outlay.

REPORT OF THE FOREIGN EXPERTS ON U. S. MINES.

The three foreign experts who recently made several weeks' tour of the United States, studying conditions in the various coal fields, made a report to Secretary Garfield covering the results of their observations, to gether with recommendations for promoting the weltare of employees. The following are some of the recommendations. We may refer again to the report in a future issue :-

A. Selecting the Explosives to be Used.

(1) We recommend that the Government of the United States examine the explosives now and hereafter used in mining with a view to eliminating the more dangerous explusives and to improving and standardizing such explosives as may be considered most suitable for such use, these to be designated by the Government 'permissible explosives'

The term 'permissible explosives' is suggested tor the reason that no explosives are entirely safe, and all of them develop flame when ignited; and we advise therefore against the use in the United States of the terms 'safety explosives' or 'flameless explosives' as these terms may be misunderstood and this misunderstanding may endanger life.

We recommend that the operators and miners of coal use only such explosives as are included in a list of 'prrmissible explosives', when the same has been published by the Government, in all mines where there is risk of igniting either dust or gas, selecting that one which their own experience indicates can be used to the best advantage under local conditions.

(3) We also recommend that investigations be conducted to determine the amount of charge of such 'permissable explosives', which may be used to the best advantage under different conditions with a view to reducing danger to the minimum,

B. Carrying the Explosives into the Mine.

(1) All explosives should be made into cartridges and placed in closed receptacles before being carried into the mines, and the quantity carried into the mine during one day by any miner should be limited as nearly as into cartridges by an open light in the mine should be

(2) Detonators or caps should be handled with great care, and should be carried only by a limited number of responsible persons.

C. Use of Explosives in the Mine.

(1) Shooting in or off the solid should not be practiced.

(2) The depth of the shot hale should be less by at least six inches than the depth of the cutting or mining. The use of very deep shot holes should be avoided as unnecessarily dangerous,

(3) The overcharging of shots (the use of a larger uting mains are laid in the usual manner, though The proper standardization of explosives used in coal small pipes need only be used, and are connected up mining will greatly facilitate the carrying out of this

(4) Shots should never be tamped with fine coal or material containing coal. Clay or other suitable material should be supplied and used for this purpose.

(5) The firing of two or more shots in one working place, except simultaneously by electricity, should not be allowed until a sufficient interval has elapsed between the firings to permit an examination of the working place, in order to see whether any cause of danger has (6)

Before a shot is fired the fine coal should be removed from the working place, as far as practicable, and the coal dust on the floor, sides, and roof, for a dis tance of at least 20 yards from the place where the shot is to be fired, should be thoroughly wet, unless it has been demonstrated that the dust in the mine is not inflammable.

(7) If gas is known to occur in the mine, no shot should be fired until, in addition to the watering, an examination made immediately preceding the time for firing, by a competent person, using a lamp which will easily detect two per cent of gas, has shown the absence of that amount of gas from all spaces within twenty yards of the point where the shot is to be fired.

(8) Believing that such will be one of the greatest advantages which can be made in safe guarding the lives of the miners, we recommend the adoption of a system of electric shot-firing, in all mines where practicable, by which all shots in the mine, or in each ventilation district of the mine, may be fired simultaneously, at a time when all miners and other employees are out of the mine

D. Keeping the Mine Roadways Clean

(1) The roadways of the mines should be kept as free as possible from loose coal which may be ground into dust and of rubbish in which such dust may accumulate, in order to facilitate the removal and wetting of

E. Wetting the Coal Dust.

(1) In all coal mines where explosives are used it is desirable, and in all mines containing gas it is highly important, that the dust on the walls, timbers, and floors of the working places and roadways should be kept continually wet prior to and during the work in the mine. If, however, conditions of roof or lack of water render this general watering impracticable, at least the dust within twenty yards of each shot should be wet before each firing, and other precautions against explosions should be practiced with unusual care.

It is our opinion that a system of watering which occasionally sprinkles the floor only and leaves dry the practicable to the quantity needed by him for use during less and is also dangerous in that it may generate an unwurranted feeling of security against an explosion,

F. Special precautions for Mines containing Gas.

(1) In any mine where as much as two per cent, of gas can be detected by snitable method only locked salety lamps of an approved type should be used so long as such condition exists or is likely to recur.

All safety lamps should be maintained in good condition, cleaned, filled, kept in a special room at the surface, and carefully examined both when delivered to the miner and when returned by him at the close of each A defective safety lamp is especially dangerous because of the false feeling of security it engend-

MARITIME MINING RECORD.

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STELLARTON. N. S.

NOV. It

graph:

- Rubs by Rambler.

A few weeks ago the obliging Keir Hardie came all the way from Halifax to Glace Bay, to tell the miners of that section, of the beauties of affiliation. It was rather a strange subject for him to take, seeing there was no movement or agitation of any kind in favor of affiliation. miners' offices at Dalkeith on Saturday. Mr. Some who wished the P. W. A. to sink itself, and interest was caused in the presented at a meeting held in the George Young, Newbyres, presided. Additional be swallowed up, in a foreign organization. be swallowed up, in a foreign organization which, recurr to Keir Hardie. In order to demonstrate this miners had determined was to be the minimitor bis hearies the great benefits resulting from um, below which they would not work in the affiliation and federation, Mr. Hardie said that future. He wished it to be noted that the emby these means they, the federationists, had been ployers had steadsastly refused to grant this 6s. successful in establishing a minimum wage of minimum in times past." by these means they, the reaction of successful in establishing a minimum wage of 6,6, in Britain. I am surprised that some one of his hearers did not shout out: "Ah, but we go fifty per cent. better than 66 here." An issue or two back I showed that Mr. Hardie was incorrect enough to take credit for that which we have not in his statement, as to the minimum wage, and I yet attained. The Canadian Mining Review, like arm going now to rub it in. Since then I have tread in the radical Weekly Mail where a meeting references to Nova Scotia. In a late issue it gives was held in a district in Scotland in an effort to secure higher rates for cutting. The chief speak would place the province in the van of any nation in the world. We quote:

"No boy under the age of sixteen is permitted to work below ground, and no boy between the district was 55 or say \$1,30 per day. It is fair to assume that if the average wage in a colliery is 55, the minimum wage must be considerably less, ages of twelve and sixteen years is permitted to work above ground, and no boy between the state of affairs in some parts of Scotland the the state of affairs in some parts of Scotland the case for affairs in some parts of Scotland the transfer of affairs in some parts of Scotland the ground. Further I read of the desire for a conferring that the question of a 66 minimum cluding division. No woman or girl of any age minimum, what's the heed of a conference? There are strikes in the Lansack and Ffeshire. It might be well for the general future not to districts, and the officials of the Union in Ayrshire be more specific, of the boys that they were not have quite a crop of complaints of not being able

to earn wages'. Putting the very best face on it this means that the men are not able to make 6/6 per day, or say, \$1,56. Mr. Hardie thinks that a wage of \$1,56 is something to chuckle over, and something to thank affiliation and federation for. Well, the miners here, without these lauded sys-The RECORD is devoted to the Mining—particularly Coal Mining—lidustries of the Maritime Provinces.—Industries of the Maritime Provinces.—tells, nave a wage ranging from 50 to 75 per cent. higher than dardie's wage, so Mr, Hardie better come back and throw a little more light on the tems, have a wage ranging from 30 to 75 per cent. supposed benefits sure to follow from affiliation and federation. If he succeeds in this he might and federation. If he succeeds in this he might proceed to show wherein affiliation and absorption are one and the same thing, and how there can be 'federation' in view of the fact that if the P. W. A. go over to the U. M. W. there will be but one body—the American U. M. W.

If the minimum wage is 6/6 what of this para-

"The section in Montgomeryfield Pit who a week ago were clamoring to stop work have agreed before stopping to give it a further tilal.

A section in No. 11 Kenneths also complain, their average earnings being about 4s. 4d. per day. The union agents are investigating before deciding on further action,

And what of this. Surely Mr. Hardie did not

attempt wilfully to mislead

"All the districts of Mid and East Lothian interest was caused in the proceedings by the intimation of the threatened reduction of the wagbe swallowed up, in a foreign organization which, thindton of the threatened reduction of the wag-up to date, has not done nearly so effective work es' scale of the Scottish colliers. Mr. Robert as the P. W. A. Had the U. M. W. been half Brown, the Scottish miners' secretary, having read wakeful in the U. S.; had it not made the accumwallation of strike funds its great object; had it, coalmasters secretary, proceeded to criticise the rather, striven towards getting laws passed that proposal. He said that the employers, having rather, striven towards getting laws passed that proposal. He said that the chapter would have tended to the safety and comfort of asked for a reduction of 3d. per day, placed the its members, it might not be said, as it is to-day, Scottish miners, in his opinion, in even a more that more men are slaughtered in the coal mines critical condition than had obtained since the big of the United States, than in any other coal minstrake of 1894, as this proposed reduction broughting country in the world. That by the way. To the wages down to 6s. per day, which the Scotterin to Keir Hardie. In order to demonstrate tish miners had determined was to be the minimal country in the world.

but as yet the law does not prohibit them from entering and working in the mine if they are twelve years of age. The certificate required before a boy receives employment does not limit his knowledge to 'as far as division'. has been improved upon. The statement that 'no woman or girl of any age is permitted to be employed in the workings of any mines' comes as a surprise to the writer. No woman or girl has ever to his knowledge been employed in a coal mine, but there is no law prohibiting their employment in the Mines Regulation Act. The two sub sections bearing on the employment of boys

"No boy of or above the age of twelve years or above ground for more than fifty four hours

"No boy of or above the age of twelve years and under the age of sixteen years shall be permitted to work in or about any mine below or above ground, unless he furnishes a certificate from the principal teacher of the schools or school of the section, of having satisfactorily completed the prescribed course of study up to the end of

-:-In conversation with a mine manager who takes an interest in the well being and well doing of workmen, he gave it as his opinion that if or workmen, ne gave it as nis opinion that it much of the poverty on the other side was due to drinking, a good deal of the drinking was due to poverty. Of course he gave that as his opinion as he did not profess to be familiar with conditions on the other side.

I am sure he could not justify such an opinion from his experience of and colliery he supervises there is the usual amount of time lost after pay days. This lost time let me admit is not all the result of drink, but by far nations there must be more or less poverty, but I hold now to what I have held for very many years, that there need be no able bodied poverty. If the drink traffic be eliminated, and the drug habits of course too, there should not be in the land any able bodied poor. A writer recently said that if the money spent in a year in drink were put to one side, all the surplus stocks on hand could be distributed or destroyed and every factory set in motion on full time. And I think he or by crook somehow, but just how is the secret, is not far wrong. Keir Hardie blamesthe present. Of course, it must be understood that the county poverty on bad economic conditions, and thinks the government could end it all. Vain belief. John Burns on the other hand holds the drink traffic responsible and his is the saner view. A late debate in the British House of Commons If specific articles in these papers were given to shows that Mr. John Burns and Mr. Keir Hardie a stranger to read he would come to the conclusrepresent opposing principles on the unemployed ion that the party they represented had met with

pointed out that the average British workman spent five shillings a week on drink, an amount of money which, if invested in insurance and in making provision against hard times and old age, wauld be security from want in either case. At compound interest this saving would amount to over seven hundred dollars in ten years. Taking the working population of Great Britain, it will be seen at a glance how enormous is the waste from which the workingmen suffer. It reveals, as Mr. Burns clearly proves in his pamphlet, the main source of their misery and want. Mr. Keir Hardie, on the other hand, ignoring economic arguments and the statistics by which these are and under the age of sixteen years shall be emthrowing the responsibility for the unhappy conployed in or about or allowed to be for the purdition of the unemployed on the Government, beor above ground for more than fifty four hours which had been clearly forseen. He did not pause in any one week, or for more than ten hours in to consider that no Government can make good cause it had not provided for a state of affairs any one day, except in case of accident or emer- improvidence and waste, or that if it could the result would be purely mischievous to the very whom it was done. An old proverb says, 'You whom it was done.' An old proverb says, 'You whom it was done.' An old proverb says, 'You was a large of the says of th cannot eat your cake and have your cake' ing could be more unwise, more ruinously absurd, than to propose, as Mr. Hardie does that the Gov-ernment should seek to better the ways of providence by undertaking to shield people from the necessary result of negligence which is nature's way of teaching habits of thrift and self-command

I scarcely know what to make of the man who says that politicians and partizan writers are not all humorists. Both kinds during the late campaign afforded "no end of amusement" to those who did not deem it worth while to tear their hair over the situation. I notice where one writ-er mournfully regrets that the campaign was so short a one. The famous parlor car conductor, familiarity with conditions on this side. At the John MacRae, of County Inverness extraction or there-abouts, formerly running between Halifax and Mulgrave, now promoted to the St. John route, was asked before being transferred, by a the largest proportion is. There is a great deal lady passenger 'Does this train stop at Mulgrave?' of drinking and there is no poverty, that is noticed to be solutionally as the largest proportion is. of drinking and there is no poverty, that is notice from a solumn—as an aware spect underwear no able poverty, though there may be if the drinking modification as he made reply 'God help us all if continues and slack times follow. If there should it don't. And so in answer to the regret at the be poverty at some of our mines then in most shortness of the campaign I would feign reply In all God help us all had it been longer. I had foolishly thought that in the last forty years I had seen some bitter campaigns, but every one was sweet compared with this last. And it was the ex-tremes to which both sides went that made it ludicrously funny. It was sort of comic to hear the praises of a member sung on account of what he had procured for his county. Whether by persuasion and an oily tongue, or by compulsion and a shut fist we were never told. He got it by hook was not entitled to it, otherwise where would the praise for the member come in. It is amusing too, to notice the manner in which the leading liberal papers took the great victory for Laurier. represent opposing principles on the unemployed ion that the party they represented had met with question. Mr. Burns maintained the same view defeat not victory at the polls. They seem much that he had elaborated in his famous pamphlet more disappointed over the failure to elect a libon 'Labor and Drink', published in 1904, and eral member for this or that county than elat

being all smiles. It may be that the tory papers namely : that he was no socialist, simply a reform-were seized with the numbness of despair, certain er like myself. It seems there are some clergyit is that they took their big defeat much more men who call themselves socialists who are not philisophically than did their opponents the loss of the X. X. brand. In London, recently, the philisophically than did their opponents the loss of the A. A. brand. In London, recently, the of a certain constituency. Certain Liberal pape Rev. Thos. Yates preached a "Citizen Sunday" ers assert that neither Halifax, Colchester or sermon from the text Isa. 12, 6 and 7, "They help-Cumberland will on account of the way they ed every one his neighbor; and every one said to went get the least little but of the Transcontinenship by the best of the Transcontinenship by the control of tal and thus Picton County will reap the benefits encouraged the goldsmith." Referring, in the of these counties folly. Thank goodness for course of his sermon to socialism, Mr. Yates exthat same "its an ill wind that blaws naebody pressed a similar idea to that I had touched upon guid" but how is it proposed to bring the Trans- only with much better emphasis. He said: continental to Country Harbor without touching any part in Cumberland. A tory paper tells us clare themselves Socialists, when, on examination olemnly that Sir Frederic's election in Kings by their Socialism turns out to be a very earnest but 500 majority is due to the fact that twenty-five ministers worked against him, and that the majority is a protest against clergymen engaging in men must make up their minds on its merits just orters a protest against cherymen engaging in then must make up their minus on its merits just politics. Tuts. That's jumping to a conclusion as they do on any other economic doctrine. But in a hurry. There were no ministers out against Christianity is neither to be confused nor commit-the Knight in 1894 and he had over double the ed to a dectrine or method of economics, and it many that the war of vituperation would have ics. it is cheap 'copy'.

The member elect for south C. B., in a little speech thanking the electors of a colliery district for what they had done for him, made the usual ed-this is not of course included in his parliamentary duties, that "he would do all in his power to bring about a reconciliation of the two la-bor factions in Nova Scotia," Ye-? The Record is not aware that there are two factions in labor circles in C, B. The Record admits to one only. gerous thing for an outsider to interfere with a Scots have a saying in reference to those who athem go the way to that faction' severely alone is my advice to Mr. ernmrnt, the matter would have to be dealt with Madden. The P. W. A is not going to employ on the report stage. taffy sticks to bring the factionists back. conduct of these has made it impossible to hold out a peace offering. As a speaker lately said, "They cannot construct a habitable building of olive branches," If the U. M. W's would come back now, unrepentant, there would be no living in the house with them.

short article on socialism, written as I believed-

over the fact that the government had been meaning elergyman of the presbytery of Inver-mightily sustained. They are all tears instead of ness h I remember only one thing I told him,

It is irritating to hear Christian ministers detheir Socialism turns out to be a very earnest but decidedly vague Christian humanitarianism. Socialism is an economic and political theory, and present majority. I had hoped, in common with does not stand nor fall with any theory of polit-With the utmost conviction Christian men ended with the election, but no, it still goes on; have been led to adopt this particular theory of it is cheap 'copy'.

economic development in the belief that they were taking the best way of realising a social order in harmony with the Spirit of Jesus Christ. 1 myself am not so convinced; but if I were a Socialist I should hope for wisdom to distinguish bepromises of very good behaviour so far as pro-tween the end which was Christ's end, and the moting their interest in parliament lay, and add-method which, being human, might fail as other economic doctrines have failed, which earnest Christians have before adopted.'

Though the miners of Glace Bay were told by a gentleman from the other side that they had an eight hour day in Britain, they have not there eircles m C, B. The necord admits to one only. The P. W. A is not a faction; it is the original quite got it, nor is it likely such a law will be whole thing. There is a faction, one only, and in force for some years yet. The eight hour bill that is composed chiefly of those who aspire to was before the committee of the British House positions in the U. M. W., a foreign society. A of Commons. Mr. Gladstone on behalf of the faction is a turbulent, a disloyal—opposition, and Government moved the clause, making the length that fits those who are making so much noise in of the day eight hours, exclusive of the two windthe law courts. It is said that it is a very dan- ings, for the next five years, and for the succeeding three years eight hours exclusive of one windgerous taining for an educater to interfere with a lang tailor of the state of the wind-family quarrel. The one who does so, as a rule ing. The Government was defeated on the mot-exposes himself to two forces, and that is the ion to adopt the clause. A member of committee way it may be with the member elect for south moved eight hours for three years exclusive of t may be with the memoer elect for south moved call the same and another member that the If he is wise he will keep out of it. The the two windings, and another member that the have a saying in reference to those who as reduction to eight hours bank to bank be extendgainst advise adopt a certain course, "Let them dover a period of eleven years. Neither amend-dree their weird." That is a very formidable ment was acted upon. The Home Secretary said looking sentence, but it after all only means "Let that if the members in a desire to have their own them go the way they choose." So leave amendments carried coalesced against the Goy-

The Halifax Herald is crazy mad on the coasters question. In a foot note to a reasonable and sensible letter written to it by Mr. G. H. Duggan, the Herald grandiloquently asks the question: "What are 1,300,000 tons of coal to the St. Lawrence in comparison with the great shipping trade A couple of years or so ago, I made reply to a ing from memory. Let me see if I can knock a ort article on socialism, written as I believed— little sense into the Herald. The complaint of at least I jumped to that conclusion—by a well the coasters is that Norwegian vessels—steamers are driving them out of the trade. What trade? The coal trade to the St Lawrence as that is the only trade in which Norwegian steamers are presently employed. In order to get quit of Norwegian vessels the Herald is willing and ready to lose all St. Lawrence shipments. Without shipments to the St. Lawrence there will certainly be no use for Norwegian steamers here. But where would the coasters profit? It might be to their profit to abolish the Norwegian vessels but to do this, and at the same time abolish the trade is silly.



The late J. W. CUMMING.

e After we had gone to press last issue we received the announcement of the death of Mr. J. W. Cumming of New Glasgow, who was known from the Pacific to the Atlantic as the maker of mining tools in use at almost all the collieries in Canada. The deceased was held in high esteem by a host of friends. He was the possessor of sterling qualities which won for him the esteem of all who had the favor of his acquaintance. From small beginnings he had worked up his business until it assumed large proportions. He put himself into his work and therefore his success. The business is to be carried on by his son James T., a young man of business ability. The old staff which is thoroughly competent is to be retained, and therefore the high reputation which the products of the firm have secured will be maintained. The Record bespeaks for the son the large patronage bestowed by coal miners and coal operators on the father. The firm will be continued under the old name.

NOVA SCOTIA STEEL & COAL CO.

Shipment "	44	1908
Increase Shipments		The first of the second second second
Increase		'07518 742 0826 563

Coal Shipments Oct., 1908

-DOMINION COAL COMPANY. LTD,-

-Output	and	Shipments	for	Oct,	1908-
		-Output-		-St	nipments—

Dominion Dominion Dominion Dominion Dominion Dominion Dominion Dominion Dominion Dominion	No. No. No. No. No. No.	2345678	49 19 31 42 15 15	769 443 156 958 477 155 511		294 082	
Shipm	ents		262 Oct	214 t. 190	7	294 082 312 286	

Shipments	10 10	mos.	19082 19072	815 716	$\frac{546}{936}$
Increase	10	44	1908	98	610

INTERCOLONIAL COAL CO.

Shipments	Oct		$\frac{304}{973}$
Decrease	44	1908 1	669
Shipments 1	o mos.	1908210 1907222	547
Decrease 1	0 "	1908 12	251

CUMBERL AND RAILWAY AND COAL CO

Shipments	Oct	1908	
Increase	44	1908	
Shipments 10	mos.	1908 1907	
Increase 10		1908	92 107

INVERNESS RAILWAY & COAL CO.

Shipments	Oc.	t. 1	908 907	25 22	506 275
Increase	44	1	908	3	251
Shipments	10 10	mos.	'08 '07	218 198	236 847
Increase	10	44	'08	19	389

ACADIA COAL CO.

Shipments		190826 190731		
Decrease	14	1908 5	679	
Shipments 1	0 "	1908	230	
Increase 1	0 **	1908 3	159	

AROUND THE COLLIERIES.

Mr Graham Fraser left this week for British Colum-

Mr. J. R Cowans, general manager of the Cumb. R. & Coal Co., was on a visit to Boston and New York last week.

The Parrsboro and Springhill Railway will probably pass into the hands of the Government in the near future, as part of the loop promised a month ago.

The slackeing off in trade at the large collieries will give the smaller concerns a chance to fill up. These have been complaining of a lack of labor for sometime.

At intervals during the past few months the Record strongly advised the colliery workers to make hay while the sun shone. Many, in view of the steady work, laughed the advice to scorn. Those who heeded it may be the happiest before next seasons shipping begins.

A week or two ago there were nearly ninety thous- 10 ft. thick, and tons of coal at the big banking station of the Dom and tons of coal at the big banking station of the Coal Co. The quantity now remaining is insignificant.

Twenty new tenements at Joggins are using twenty new tenements at Joggins are using twenty new tenements at Joggins are using the completion by Rhodes, Curry & Co. These with the several houses the company are remodelling, will relieve

concrete sidewalk, has been abandoned by the promoters and filled up with the material taken out. Conservatives say the dead hopes of the Liberals in Cumberland lie buried there.

A large number of I. C. R officials went carefully over the C. R. & C. Cos. branch line between the June tion and Parrsboro As the weather was exceptionally fine for days preceding the 26th Oct. the gentlemen enjoyed it immensely, laughing heartily at intervals at some joke, apparently kept to themselves.

Mr. Thomas Blackwood, Deputy Inspector of Mines for Pictou Co, was in Spring! iil recently. Tom is well and favorally known to many of the old timers in and about the mines here, who were very pleased to see him. He paid a visit to the collieries accompanied by A. V. Cameron, Deputy Inspector for Cumberland.

Considering the dire threats thrown out, of the annihilation of Cumberland industries in general, and Springhill in particular, we are as yet moving along a-

their minds to a certain line of action or conduct they failed. The News is pleased to report to day that the follow it through. The 26th. of October was a red letter day in Springhill and was a credit in every way to the town and its citizens. The entire absence of liquor Main seam in this Coal Basin has been opened up. accounts for it. The day was an ideal one for an electis located about one mile to the westward of the Joggiur ion. The appearance and speech of the crowds on the Colliery. This discovery addseveral million tons of street were in the highest degree respectable and decent, quickly available coal to the vast quantity they now While chaffing was indulged in by the different groups have in sight. A contract has been let for sinking a on the street it was entirely good natured and the best slope at this point, and a fair output could be obtained

bia, where he will likely remain for the next six months. output and shipments of the Dominion Coal Co. are At least one of the C. B. newspapers has it that the period of last year, Scarcely. Now that the elections are over there is little justification for the use of hyper-

> Though the Port Hood colliesy suffered some from a shortage of water for boiler supply, the shipments for the season will show a substantial increase this season over last. The management expects by the end of the year to have shipped in the vicinity of 125,000 tons; a remarkably good showing

> There is not much of anything new to report about the collieries in Springhill. The work of development is going on along the usual lines. The tunnel being driven from No. 2 Seam, east of No. 2 Slope to No. 1 Seam has tapped the latter at 175 ft This tunnel will open up a vast area of the very best coal; the seam is

the present scarcity of living accommodations. It is al-The hole that was dug before the Post Office in most impossible to obtain board at any price, owing to Springhill for the ostensible purpose of laying down a the great activity around the colliery, having caused a great influx of labor.

> The season for shipments by water being about over there is a slackening off in the trade of Pictou Co, and a number of the men have been discharged. Between the Acadia and the Drummond Collieries, the number is off and on about a hundred. This is to be regretted, but could not be avoided. Some of the men have consented to double up, or in other words to go shares,

Reports are current that something will be doing soon at Broughton. Thos, Lancaster, the former Gen'l Manager, Mr. Mayhew, former managing director, and some British capitalists have been viewing and ceviewing the property. Broughton may be made a success if its future management dispenses with the fuss and feathers of the old. A little sense is needed to ensure success in coal mining.

The Maritime Coal Ry. and Power Company has Springini in particular, we are as yet moving along a made a most variation and of coar of the specific bout as usual, and working fairly steady. We will probe it at the Joggins Mines For over thirty years perbably not be able to say as much by the time Laurier sistent search has be n made for the main seam of this remarkabe coal basin, but although numerous bore The late election among other things, proved con- holes have been put down, and much prospecting work clusively that when the people of Springhill make up done, yet all the efforts to locate the seam have hitherto explorations carried on by different companies for many years have at last been crowned with success and the in time for next seasons shipments.

AROUND THE COLLIERIES

deserve colliery was steady last week.

The best daily average output in the history of Dom No. 1 colliery was attained during Oct-

International colliery has been subjected to the greatest amount of idle time, Dom. No. 3 to

The Dominion Coal Co are beginning the development work of the winter. It is early but has to be done.

The angle deep, Dom No. 1, produces a good quality of coal, being firmer in texture than many parts of the same mine.

The Northy steam pump in Dom. No. 1 has been replaced by two electric driven Turbine pumps. a capacity of 750 gals, per minute,

been erected at Dom. No. 1 for emergency purposes. With the placing of a few bolts, the new fan can be started in a few minutes. This is wis-

The coal banks were long in disappearing this summer which is a bad sign. However, few of the miners of this Province and espesially Cape Breton, can say they ever witnessed such a period, ground, ten years of unbroken prosperity.

The Sydney Mines and Glace Bay socialists are greatly disappointed at the small progress their cause is making in the United States, as shown in the votes cast for Debs at the late presidential election. Fifty per cent fewer socialist votes were cast than anticipated.

It is reported that the Dominion Iron and Steel Co. have closed a contract for 10,000 tons of steel rails for the Australian government. It is further said that their will be a demand for the company's billets and rods from Britain and other countries in Europe and as far as India. All this will help the coal trade. Of late the Steel Co. has not been using so much coal as it was stated it would at the time of the 'trial.' The quantity of coal used last month did not come near up to the 75,000 ton mark.

There has been considerable excitement in labor circles in C. B. of late. First there was the injunction restraining the Gd. officers of the P. W. A. from acting. Next there was the summary dissolution of the injunction by Judge Drysdale. Then Gd. See'y Moffatt was arrested on a charge of perjury in connection with the affidavits placed before Judge Drysdale, followed by the trial in Sydney in which the Irish Scotsman from Sydney mines was a star witness, but did not impress Stipendiary Hart any deeper than he did Prof. Shortt. The C. B. socialists, the self styled freers of the colliery slaves, are the worst enemies labor in C. B. has yet en. office, Address the Carritte-Paterson Mfg, Co., Ltd, countered. Selfishness stares out of their every action. St, John, N, B., Halifax, N, S,

The angle deep of Dom. No. 1 runs parallel with the shore line for a distance of 3600 feet, and is distant from the shore under water 1300 feet.

The North level driven off the angle deep at Dom. No. 1 is under water 3600 feet. The face of the level is a most opposite Bridgeport rows. When this part of the mine is fully developed the angle deep will be drawing its coal supply a distance of two miles from under the Atlantic.

In response to the questions sent out by the Eight Hour Day Commissioners, the mine managers have forwarded answers. We have not heard what action, if any, the workmen have taken in regard to the questions sent to them. If the mine workers have accepted the dictation of the United Mane Worker from the Western wilds they have treated the interrogators with silent contempt. The Commission will not meet to take evid-One 6 stage and the other 3 stage, with ence for a few weeks yet; indeed it is probable there may be no hearing of evidence till after the new year A new fan engine 16×30° and fan house has trade indications there will be a number of short days between now and next July; much shorter than eight

> If deep shafts are sunk with their longer axis in the line of full dip, better results can be obtained in sinking, draining and securing the sides, especially in bad

The percentage of coal, at present considered unrecoverable, and left in the ground in the various mining districts of the United States varies from 40 to 60

Mr. Eugene W. Chafin, prohibition candidate for president, was asked at one of his addresses 'What do you suggest should be done to relieve the condition of the unemployed?' In reply he said: 'The workingmen of this country spent a thousand million dollars last year in the saloons, for which their families received no benefit in food, clothing or shelter. If this money thus spent had been deposited in the banks, it might now be drawn out and there would be enough to buy up all the surplus manufactures in the country and set every factory in motion again.'

The makers of Amatite Roofing have advertised their goods very extensively, but the mineral surface proposition is unfamiliar to many people who do not see how it is possible to make a flexible, pliable roofing with a surface of real stone.

Any man will recognize that a mineral surface will wear longer for instance, than a painted surface, but one has to see how Amatite is made to really appreciate its advantages. The manufacturers, therefore, distribute samples very freely, and you can get one very easily by addressing a postal card to the manufacturers' nearest

Amalite



PAINTING a roof is work. Buying the paint is expense. Both are needless if your roof is Amatite.

When 'you finish laying Amatite, take away your ladder, pick up your hammer and knife, go away and leave the roof to take care of itself. A few years later you may go back and look at it if you, care to, but it won't be necessary, and there won't be anything to do,

This is due to the fact that Amatite has a real mineral surface—a surface that is too strong to need protection—too durable to require painting. If you buy one of the smooth surfaced roofings you will have to paint it every two or three years to keep it from leaking. In fact, such roofs depend on the paint almost entirely for their waterproofing qualities.

Amatite on the other hand depends for its waterproofing upon double layers of Coal Tar Pitch, —the greatest known enemy to water.

Amatite comes in rolls of 110 square feet ready to lay. No special tools are required, and anyone can lay it properly.

A sample of Amatite will be forwarded free on request. Send for it and see how much better it is than the kind which requires painting to keep tight.

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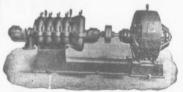
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Any even numbered section of Dominion Lands in Manibiol or kin, North-ward Provinces, accepting 8 and 30, not reserved, may be homesteaded by any person the sole hoat of a family, or male over if years or age, to the Application for entry must be made in a more reason of the sole of the sole of the Application for entry must be made in a proper proper and a proper normal form of the sole of the proper of the sole of the proper of the sole of the

by the samer, momer, non, angulare, noviber or salter of an illnessing mome. As application for entry or cancellation made parsonally stary side-agent's office may be wired to the Agent by the Sub-agent, at the application, and if the land applied for is vacant on receipt of the telegram, such application into have priority and the land will be held until the necessary of the same of the same and the same

posed of.

When an entry is cancelled subsequent to institution of cancellation proceedings, the applicant for cancellation will be entitled to prior right of

posed of the applicant for cancelled subsequent to institution of cancellation proceedings, the applicant for cancellation will be entitled to prior right of early.

Applicant for cancellation must state in what particulars the homestead of the prior right of early.

A policant for cancellation must state in what particulars the homestead whose entry is not the subject of cancellation proceedings may, subject to the approach of Department, relinguish it in favor of rather, and the control of the

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS *

Coat. Coal lands may be purchased at \$0 per acre for soft coal? Tand \$20 to antifractile. Not more than \$20 acres can be acquired by one individual or excited on the gross output. Get ne center to or \$200 pounds shall be colcuted to the gross output. Get necessary to the contract of the gross output. Get necessary to the contract of the gross output. Get necessary to the contract of the gross output. Get necessary to the contract of the gross output. Get necessary to the gross output. Get necessary to the gross output for a compact of the gross output. Get necessary the gross of the gross output for the gross o

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The patent provides for the payment of a square; entry fee \$6 renew-

able yearly.

Are miner may obtain two leases to dreigh or gold of fire miles e cher A free miner may obtain two leases to dreigh or gold of fire miles e che and the cher of twenty rears, renewable at the discretion of the Minister of the Interior.

The lesses shall have a dredge in operation within one season from the date of the lease for each two miles. Rental 210 per annum for each mile of river exceeds \$10,000, at the rate of 2.15 per cent collected on the output after it

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

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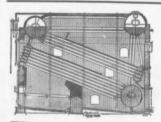
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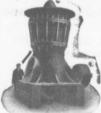
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