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# Maritime Mining Record

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Fig. 1. HAULING. PATENT FLATTENED STRAND ROPES.



Fig. 13. SINKING





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Fig. 13 for Sinking & Fig. 11b for Grams, &c., are non-twisting.

Fig. 11b. CRANE, &c.



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Fig. 18a. WINDING.



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Mines Branch.

Recent Publications:

The Bituminous Sands of Northern Alberta, Report on, by S. C. Ells, M. E.

Peat, lignite, and coal; their value as fuels for the production of gas and power in the by-product recovery producer, Report on, by B. F. Haanel, B. Sc.

The petroleum and natural gas resources of Canada Vols. I & II. by F. G. Clapp, M. A. and others.

Electro plating with cobalt, Report on, by H. T. Kalmus, Ph. U.

The Mines Branch maintains the following laboratories in which investigations are made with a view to MEMOIR 60. Arisaig-Antigonish district of Nova assisting in the developing of the general mining industries of Canada :- Fuel Testing Laboratory, Ore-Dressing Laboratory, Chemical Laboratory, Ceramic Laboratory, Structural Materials Laboratory

Application for reports and particulars relative to having investigations made in the several laboratories should be addressed to The Director, Mines Branch. Department of Mines, Ottawa.

R. G. McConnell, Deputy Minister.

Geological Survey.

Recent Publications:

Building and ornamental stones of Canada, (Quebec), Vol. III, Report on, by W. A. Parks, Ph. D.

MEMOIR 16. The clay and shale deposits of Nova Scotia and portions of New Brunswick, by Scotia and portions of New Brunswick, by Heinrich Ries and Joseph Keele.

> MEMOIR 20. Gold fields of Nova Scotia, by Wyatt Malcolm.

MEMOIR 44. Clay and shale deposits of New Brunswick, by J. Keele.

MEMOIR 59. Coal fields and coal resources of Canada, by D. B. Dowling.

Scotia, by M. Y. Williams.

MEMOIR 78. Wabana iron ore of Newfoundland, by A. O. Hayes.

Applications for reports should be addressed to the Director, Geological Survey, Ottawa.



Stellarton, N. S.,

February 9th., 1916.

No. 15

### MINE FIRES AND HOW TO FIGHT THEM.

(Continued from last issue.)

Electricity.

tiee, doors, or track ties. To prevent short circuits the electric wires should be insulated at all points of contact. Bare wires should not come in contact with the coal, timber, doors, or any material favorable to the starting of a fire, and especial care

In the event of a short circuit the current should be immediately thrown off the wire, and any fire electric or safety lamps if they are provided. that has started should be put out. Many mines If lines of water pipe with hose connection are provided, at convenient places in the workings, automatic sprays are provided they should be kept galvanized buckets. If a fire starts the employees should not be afraid to use these, even though the

Open Lights.

The careless use of open lights often results in serious mine fires-timber, stoppings, brattice, or gas feeders being set on fire in this way. If open lights are used in a mine, the following precautions will reduce the danger of fires:

Use a safety lamp or an electric lamp to furnish light when wooden stoppings are being put up or repaired.

Do not use open torches for testing w oden stoppings for leakage of air.

Keep open lamps away from brattice cloth, unless the latter is fireproof.

In places where brattice cloth is used a barrel other vessel for throwing on water in ease of fire, ing car journals.

At points where timber cribs are in use in dry places, the barrels of water for fire protection should hay be kept filled at all times, and buckets should be kept in place ready for use

Hay.

Hay, when taken into a mine, should be handled in bales, covered with a fireproof canvas, and inclosed within a car, or, if no canvas is at hand, the hay should first be dipped in water. Hay should be taken into a mine only when the miners and other workmen are out of the mine. Open torches should not be used near hay. Safety or electric lamps should be used at all times when hay is being handled or stored. Do not store hay in passageways between the hoisting and air shafts, unless there is ample protection against fire. If hay is stored in a compartment separated from the stable are a source of constant danger from fire. If such by a door, the door should be kept closed except furnaces or plants are in use many precautions is stored in break-throughs or along the haulage more important:

roads, which is bad practice, it should be covered with fireproof canvas and a barrel of water with buckets should be placed near by. The barrel should Many fires in mines are started by short circuits it first; otherwise, if the hay catches fire, the smoke of electric current setting fire to coal, timber, brat- and fumes from it may prevent anyone from getting

Underground Stables.

should be taken in using lights in a stable.

Do not use open lamps within the stable, but use

in working order; barrels of water with buckets should be kept in the stable.

Chemical fire extinguishers should be kept near the entrance to the stable, and the miners should

Underground stables, even though they are made fireproof, should not be used for storing any material that burns easily.

Should a fire start in a stable within a mine and the stable has iron doors, these doors should be closed at once, to prevent the fire from spreading. Lubricating and Other Oils.

Loss of life and damage to property have been caused by lack of proper care and by not using good judgment in handling and using oils within mines.

Oil should not be stored within a mine. Daily supplies should be taken into the mine in closed of water is often placed near by, with a bucket or ling oil of any kind, not even when greasing or oil-

Keep oil away from dry timber, loose waste, or

When mine-car journals are oiled within the mine, this work should be done in the special place provided by the company. The track at this place should be ballasted with broken stone. No timber should be used along this part of the track. Keep plenty of sand in near-by places to be thrown on a fire in case one starts.

If an open cask or barrel of oil or grease takes fire, do not overturn it, but cover it with a piece of canvas or an iron plate, so as to exclude the air and smother the flame. If a pyrene extinguisher is at

Underground Furnaces and Boiler Plants. by a door, the door should be kept chosed except furnaces of plants are in use many precautions when hay is being stored or removed. If loose hay should be observed, of which the following are the

(Continued on page 14.)

#### MARITIME MINING RECORD.

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

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

Advertising Rates, wi ch are moderate, may be had on

Subscription \$1.00 a Year. --- Single coples 5 cents

#### R.D.RUMMOND. PUBLISHER.

STELLARTON, N. S.

February9, 1916

#### 医我们我看到我们在你在你 人名约克森森奇人名英格兰姓氏 化二烷化氢酯磺胺 THE SHELL COMMITTEE UNDER FIRE.

In the Federal parliament some fierce speeches in reply to the address from the throne were directed against the Shell Committee, and there was much more implied than which the language of the speeches implied. Indeed one was led to infer that work of the committee the Record, having an idea of the difficulties facing the committee, spoke strongly in their favor and in spite of all that was said we are still of opinion that the committee not only did grand work, but did it most successfully and without the remotest idea of personal gains, The committee may have made mistakes. We do not say that they did, but if they did these may be of their work. The Record's stand has not been without its influence. It has impelled a well esteemed liberal contemporary to forswear its inclination to censure and take a firm stand in defence of the member of the committee most zealous in its labors. Below we give an article from the Sydney Post which relieves us from any necessity to make quoted above show that there is nothing to comfurther defence of the committee:

The vigorous address of Major-General Sir Sam Hughes on the work of the Canadian Shell Committee differed from that of Mr. Pugsley, Mr. Carvell and other Opposition critics, in that the Minister of Militia fortified his statements with authenticated facts and avoided the tricks of the professional politician. The unproven Opposition statement that Canadian manufacturers have exacted a larger price for the output of their plants than American shell makers, Sir Sam met and refuted by giving definite quotations of Canadian and United

The Canadian price for the first order of 18pounder shells was \$8.55, of which \$5.15 was for the assembling of the materials and the machine work done on them. The second order received by Canadian manufacturers was placed at \$6.00 per shell. In this case the cost of assembling the materials and of the machine work done on them was reduced to \$3.80, the lower price being due to the better organization and increased efficiency which had come to the Canadian manufacturers by virtue of their initial experience. Sir Sam gave figures to show that many firms had spoiled as high as forty per cent. of the shell materials they were handling, owing to inexperience at the outset gate all charges of wrong-doing. But the charges of the work. The cost of machining and assembling has now been so reduced that the present Canadian

price stands at \$1.85 per shell as against \$2.20, just quoted by United States manufacturers for the latest order placed with them by the Russian government. In almost every case the Canadian price is lower than either that ruling in the United States or in Great Britain. Sir Sam is authority for the statement that 4.5 shells are made in Canada at \$7.45 a piece, whereas the British price for the same shells is \$10.33. For 4.5 shell forgings the British price was \$4.50, and the Canadian \$4.25 for the first order, \$3.60 for the second, and now stands at \$2.95. For the machining of 18-pounder, high explosive shells the British price is \$3.81, and the Canadian price \$1.85, 6-inch shells made in Great Britain cost \$19.94, and in Canada \$16.85. The British price of forgings for these is \$9.23, and the Canadian price

The gravamen of the complaint of the Opposition in parliament is that the members of the Canadian Shell Committee were in almost all cases directors of companies which received shell contracts. In ordinary circumstances such a situation would unquestionably raise a prima facie case for than the Shell Committee a worse set of rogues clear serutiny of the work of the committee and could not well be found. From the inception of the the character of the contracts they let, but, as Sir Sam Hughes points out, it was because General Bertram, Colonel Cantley and their colleagues were together and organized into a committee for the purpose of developing a shell manufacturing industry in the Dominion. Had the work not been undertaken by the plants which these gentlemen overlooked in view of the novelty and the magnitude at all. The prices which were paid to the concerns represented by them were fixed and agreed upon by the British authorities. The element of competition was thus eliminated from the situation. All concerns which could make shells were given contracts. The British government had no cause to complaint of the contracts it made, for the prices plain of on the ground of cost,

The achievements of the Shell Committee in building up a great Canadian industry and helping Britain to solve the munitions problem are, as Sir Sam Hughes well says, above all praise. Up to date Canadian manufacturers have produced 22,000,000 shells; have consumed 800,000,000 pounds of Canadian steel, 45,000,000 tons of brass, zine and eopper, and enormous quantities of other Canadian products. They are affording employment to 90,000 skilled mechanics in the manufacture of war munitions. Over 1,000,000 shells are being shipped from Canada to Great Britain every month, and the total shell orders received to date aggregate in value the enormous sum of \$250,000,000. To injure the reputation of a committee of Canadian manufacturers who have such substantial achievements to their credit will require something more than the tittle-tattle printed in the "Liberal Monthly" and the innuendoes of so unreliable a politician as the Hon, William Pugsley. In the absence of any charge of wrong-doing, parliament is not likely to consent to place the members of the committee in the position of culprits before an inquisitorial tribunal at the request of a handful of professional scandalhunters. The government stands ready to investimust precede the investigation.

The following from the Financial Post, which

should have no political bias, is sufficient reply to not a professional geologist, says, is most interest-

One fact emerges plainly from the hubbub which has been raised in Parliament this week over the fine coal sear; at the old Albion mines. Be careful Board, order, organization and effective adminisdemand for an investigation of the Shell Committeest across the East River nearly opposite the railevery Liberal and Conservative knows, that as far every internal and Conservative knows, that as iar a wen remember one day about seventy out as the members of the late Shell Committee are con-years ago that I was walking down the old Mark sion is not needed to uncover incompetence and lack of ability to organize and administer business.

"The information will come as something of a shock to those who recall the recent assertions of Kitchener congratulating him upon the prompt delivery of shells and gave the distinct impression that everything was as it should be, and even better than some time in the future they would all be discovmight be expected in this connection. Even granting that the delay referred to by the Imperial Munitions Board was and is inevitable, it is strange that credit should be taken for efficiency and despatch that were not in evidence."

any comment had it realized that the very ones who are behind in their contracts are those who started the howling against the shell committee for discriminating. Possibly the Mail is in error in saying there are large arrears of delivery. There are large contracts unfilled for the simple reason that the time of their theories to pale before practice. "Cement," as it is called on the Montreal exchange, start boring again, and possibly you will find what has, the papers say, a big contract for shells. Not a shell, we believe, has yet been delivered but yet a such, we beneve, has yet been delivered but yet boring than your bore rous strike in the vicinity of "Cement" is not in arrears for the reason stated, the Red Brook on the old Mark road, and then when Other is not in arrears for the reason stated, the near brook on the old mark road, and then when If there are other outstanding big contracts, like you find, as you undoubtedly will, something, what If there are other outstanding big contracts, like you and, as you undoubtedly win, something, what that of Cement, it may not be a matter of wonder a joke Albion mines will have on the remainder of that the British authorities hesitate to enter into Pictou County."

#### THE NEW FOUND SEAMS.

The finding of new coal seams by the Acadia Coal Company is attracting attention in the other mining counties. A veteran who worked in the Albion mines, say three score years and more ago, what it styles a "learned article" on coal leases and sends a letter to the editor part of which we repro- the working of them with special reference to the duce below. The opinion held by many is that if closing of the Thorburn mine. We are told that that famous McCulloch's brook fault does not cut in former times the government retained power to off the Drummond scam it runs below any coal yet forfeit all leases that were not worked. This statestruck. Some expect to strike the Drummond seam ment is an example of the objuscating effect politics

ing.
I am glad that you have discovered such a has been raised in largament this week over the line coal scala at the old albion mines. De caretti letting of the shell-making contracts in Canada, and you don't run into the old workings of the Drumthat is that, whereas in the shell committee s time mond mine when opening up. It is hard at times there was disorder and chaos in the handling of the to say what curious twists a coal seam takes under there was disorder and chaos in the handling of the to say what curious twists a coal seam takes under business, there is now under the Imperial Munitions cover. I will not be surprised to hear of other distration. It is pretty generally understood that the late finds, and it might not be foolish business to way station, that is if 'you' have spare cash,

years ago that I was waking down the out state road from Fox Brook with an old gentl man by the name of Colin McKay. Red foxes gave Fox Brook its name. He was a travelling merchant, when cor-Says the Glace Bay Gazette: "In the statement little pole bridge on the road. Under the bridge just issued by the Imperial Munitions Board re- ran a fairly heavy stream of water. The water was garding shell contracts, says the mail, it is as as red as metallic paint. While standing on the serted that there are large arrears of delivery on bridge looking down on the water Colin said to as red as metallic paint. While standing on the present contracts. This is put forward as an ex-me: Boy, what makes the water so red? With present contracts. This is put forward as an extense; buy, what makes the water so red; with planation of the failure of Canadian manufacturers that assurance or arrogance of youth I said 'It must be the 'red' foxes.' There were lots of red foxes in the locality at that time. His reply was: Sir Sam Hughes in his defence of the late shell com- a big lot of iron lying around here somewhere that 'No, boy, it is not the red foxes who color it, it is mittee perore parnament. The minister of milita does it. After I and reached man's estate and had described the situation in Canada as a model for the knocked through the world a bit, whenever I saw does it.' After I had reached man's estate and had red water near coal seams I could always see Colin on the bridge, telling me about the wonderful things hidden in the earth far from sight, and yet that at ered and put to the service of man. Colin was about 6 feet 8 inches tall and, like all the men—and women also—at that time, had an implicit faith in his Bible and veneration for his church and minister, The Gazette would probably not have written and get glorious, it only made him pray the harder

"If I am not in error the geologists have confined the coal seams in Pietou County within certain limits. Don't pin your faith too strongly on their 'dictums. I am no kid now, and have known many

you are after. All the way up the East River keep boring until your bore rods strike in the vicinity of

# - Rubs by Rambler. -

some day on the east side of the East River. As a has on a man's mental vision. It is true that leases some day on the east side of the East Miver. As a may on a ment a mental vision. It is true that reases reminiscence, what this veteran mining man, though were for feitable on which a certain amount of work

was not done each year, but that is an entirely differ-problems. War orders, it is true, are plentiful; ent thing from saying "which were not worked." prices are good, and it is believed that the concern and the McKay mine, all in Cape Breton? Will terest." the leases of these areas to the present owners be cancelled if the area of say the Acadia Coal Company at Thorburn is escheated? Can law be made while allowing Mabou, and Port Hood and many other areas to remain in the hands of their present owners on the ground that but comparatively few a number? The less escheating or other like profinances and the community in general. . .

the new president of American Steel, will spend a fair proportion of time in Sydney. The opinion has got abroad that there will be changes in the staff, as I saw around me. a previous occasion the Record hinted that there contemplated changes is from the Sydney Post:

"That there will be a general reorganization of the management of the Dominion Iron and Steel THE STATUE OF LIBERTY WITH ARMS UP. Company at an early date seems to be generally a well-known steel expert to supervise the direc- entrance to New York Harbour. tion of the operations of the plant, and to advise regarding its general policy for the immediate friend of mine, annoyed at one of President Wilson's future. There is little doubt that the Dominion latest notes, told me the other day that, if his na-Iron and Steel Company, like other great industrial tion had had a proper prophetic insight, the statue

The act did not apply to coal areas so much as to is at present prosecuting a highly profitable busiareas containing the precious metals. At any rate ness. But Canadian industrialism must utilize no one ever heard of a coal lease being forfeited be- the time which will clause between now and the cause it failed to comply with the statutory enact- conclusion of the war to adapt itself to the critical cause it failed to comply with the statutory effacts concussion of the war to analytisely to the critical ment of a certain number of days work on it. The period of readjustment which every shrewd old law was that an area, a lease, was forfeitable economist forsees will ensue immediately on the if ten days' work was not done on it. There was conclusion of peace. Industrial business will then no reference to the sort of work that was to be done, be as plentiful as at present, if indeed even greater except that latterly the act emphasized the order opportunities are not opened out for the concluthat the work was to be real, not colorable. Why sion of the war. The great question is, What was this law abrogated and a yearly rental substi- countries will profit by the changed conditions? was this law accogniced and a yearly return subsider countries will prome by the eminical countries tutted? Simply because a holder of a lease had easy It will be some years before German and Belgium conscience as to what constituted "work." If he competition will be anything like the factor it has walked over his lease and picked up a pebble or been in the markets of the world. With the retwo and threw them away, or hired a man to do ten turn of peace will come enormous demands for all days' work at a dollar a day, digging a drain or kinds of steel products. To anticipate the charburning brush, he in his opinion complied with the acter of these demands, and to forecast after-thelaw and affirmed thereto. The old law was a scream- war market conditions, and make timely preparaing farce. There may be objections to the present tion to meet them, should be the present concern law but it has worked fairly well and has brought of Canadian industrial enterprises. Men of faith a deal of money into the Mines Department. It is and vision, with progressive ideas and the determisuggested that the government secure legislation to nation to see them realized, are the kind of ofescheat all unworked areas, a power that it does not ficials that all Canada's great industrial concerns now possess. They better leave well enough alone, require at the present time. There is no Canadian Any such power given the local government, and ex- enterprise which should have such a future before ereised would, instead of remedying matters, make it as the steel industry. On high national grounds confusion worse confounded. It would be a law it is therefore desirable that officials of the right difficult and unpleasant of enforcement. If a min-type should be entrusted with the development ing company suspends operations because of insuf- of the policy which the Dominion Iron and Steel ficient capital, or from some untoward condition. Company is to pursue from now on. The rewill it be similarly dealt with as the company that organization which it is believed is foreshadowed shuts down a mine because there is no profit in it? by the recent changes in the directorate will there-When about Broughton, and Mabou and Port Hood fore be looked forward to with very general in-

#### THE PROBLEM OF THE TOWN.

When we have done our duty by agriculture we so that the Mines Department may discriminate, and shall still have with us the problems of the town. We have good need to be ashamed of most of our industrial centres. Little wonder it is that those who make wealth in them are found as a rule carepeople are affected, will escheat some other area on fully to avoid living in them. Increasingly we find the plea that the non-working of the area affects the industrial captain motoring out of the factory surroundings to some jolly little place in the councedure the government enters into the better for its try near by, where a decent life may be lived. Our towns must be changed out of all knowledge, or it avails little to raise wages. I have been in plenty The prevailing opinion is that Mark Workman, of industrial towns in this country in which I have said to myself that it would not be worth while to be a millionaire if compelled to live in such streets While Smokytown remains There is, it is said, to be a new working head. On Smokytown, with its gloom and unloveliness, it matters little whether 30s. a week is raised to 35s., or was one now on the staff who might fill the bill bet- 35s. to 40s. There must be both higher wages and ter than a stranger. The following in reference to the opportunity to spend higher wages in homes and towns worth living in.'

an early date seems to be generally . It is generally known that the French nation. The Montreal Star says that it is presented to the United States the gigantic statue understood that the Company will shortly engage of Liberty, which guards, with one arm aloft, the

Said a famous author recently: "A French concerns, is now face to face with momentous would have had both arms aloft-in token of surrender of liberty."

# AROUND THE COLLIERIES

On a day last week the Allan shaft output went over five hundred tons. A few more men have come Londerry iron works and later with the Dominion

Record's only comment is "The sly beggar."

day. This led many to say that the "coal famine"

There are sufficient places in the several mines of the Acadia Coal Coy, for an output of at least count slower progress is being made in development a third more than the present output. In other than hoped, On country has the oig motor tan was words, if the company could secure about a hundred set to work to dispet the gas. Of course where there six thousand tons daily.

Did not several liberal papers within the past year or so ridicule the federal government as being a government by commission? Well, what have they to say of the local government which has been Picton coal field of a seam at the Albion mines

sion to enquire into the feasibility of the reopening day. At this writing the full face is not exposed, commissioners are G. B. Murchell of the Colonial will be worked at an early date.

Mining Co., Tom Hale, formerly manager at the Drummond colliery, and McLeod of the Inverness Railway and Cost Coy., all fairly good men with exploring the new 20 foot seam, not to run into the the erowning virtue, in the eyes of certain news-old workings of the Drummond, while it may seem papers, of being irreproachable grits.

encountered. The angle of the bere note is say nec, he will be a what man who would say the level sixty degrees. The drill has gone through several would go through barren ground all the way, and bands of shale and soft elay. These fall and block still be in it at the stopping point. up the hole. In order to prevent this after a cer tain distance has been gone through the newly bored

new found seam driving right and left. There are of Dominion. thirty-six men in the three double shifts. Three levels in the meantime are driven for purposes of fers to probably the oldest living mine manager in ventilation, but will eventually be the beginning the province. On Friday, contrary to expectations, of levels to be driven a thousand feet at least in owing to his advanced age—90—Mr. Mitchell had order to prove the quality of the coal. If the coal railied. Let us hope the end is not yet. in that distance is of approved quality then the levels will be continued a further distance of a

along, and more will follow as the new superin- Steel Co., and who now fills an important position with the United Steel Corporation, desires through One of the ministers of the Crown is authority friends. Mr. Meisener, as an inducement to keep at for the statement that Thos, Camiey supported E. It, says he takes great pleasure in reading the Rec-

The pits stopped at half time municipal election investigation in regard to affairs at Westville was was at an end. The company would rather that government, the Department of Mines or a govnothing more nor less than a cushion on which the was at an end. The company would rather that government, the pepartment of sinces or a gov-the men had worked but in deference to the wishes ernmental official might fall if critics became too noisy. Oh, the scoundrely slanderers.

a third more than the present output. In other than hoped. On Sunday last the big motor fan was is much gas there is less danger, or ought to be, as to be forewarned is to be forearmed. It is when gas has unheeded lurking places that danger at times

reveiling in commissions of late? Two, at least, cannot the Purvis, and to be four feet six menes have been appointed since the first of the year. And thick. Strangely, no attention has been paid to it until lately. Mr. Notebeart, who is of an enquiring turn of mind, has "deiffed" from the slope unlerbut if the seam is as thick as reported the coal in it

to some a good joke, may be worth considering when all is said. Suppose a level was driven from Boring is not proceeding rapidly at the present the 20-foot seam south by west, till it reached a from the McGregor down, owing to difficulties point a few hundred feet south of the Record of-

part is filled up with eement. After the cement has county's leading citizens, is lying seriously ill at his set it is bored through and a solid hole thus secured, home in Dominion. Last night but slight hopes were Three shifts of men are now employed in the 16th of this month. His son, F. J. Mitchell, is mayor

thousand feet before general development begins. a very, very informal affair. In future investiga-It is told that the Westville investigation was

tions the government should see to it that the com- some years ago, as Surveyor for the Company. -and said things-just as though the commissiondeprayed thing political human, or human political the submerged coal. On being asked what he meant nature is. The job of a commissioner is as thankless by that remark, Mr. McKenzie said he would a solatium which the latter has not.

oxy-acetylene welding has just been accomplished by the Nova Scotia Steel and Coal Company, Limit-"Princess" Colliery, eleven feet over all, stepping down at each end in successive stages of one inch,

Under the caption "Mining Industries Affected sideration. by the War" as a sub-heading the Industrial Adas compared with 1914, while gold shows a large increase." The Advocate takes its cue from an thereabout in the Morning Chronicle. That the would cut down the coal from that his scatterially. Chronicle made a misstatement is not to be wonpaper devoted professedly to mining should per in extracting the slope pillars, Mr. Hale said he petuate the blunder is inexeusable. There was no did not think so, but that there was more coal under 1914, but a fair increase. Had the Advocate read then asked how long it would take to extract the article it appropriates from the Chroniele it coal from 17 to 14. He replied it would depend would have possibly discovered that there was conwould have possibly discovered that the chronicle, and flict between the headlines of the Chronicle, and what was contained in the body of the article. The what was contained in the body of the article. value of increased coal shipments in 1915 over 1914 was three times that of the value of the total gold produced and about six times that of the value of increased gold production.

#### THE DRUMMOND MINE INQUIRY.

As the Mines Department's action in the matter of drawing pillars in the main slope of the Drummond Colliery will likely lead to much discussion tons. Mr. Hale did not approve of the idea of at the coming meeting of the legislature, we make drifting from No. 2 mine to No. 1 mine to the deep, no excuse for occupying space giving the evidence as proposed. He said the Government should make

missioners be crowned with steel-grey wigs, so that Never worked in 18 and 19 lifts. Mr. Graham said the wigs may-if the commissioners unadorned can-that Mr. Maxwell had outlined the proposed policy not—strike awe into the hearts of witnesses and of the Company and asked the witness what he listeners. The witnesses debated among themselves thought of it. Mr. McKenzie said it was worth looking into very earefully. He sad been away for ers were ordinary individuals: and then further the over a year and was not in touch with present day heavy-looking wigs might give additional weight conditions. He felt satisfied that the estimate of to the commissioners' deliberations. One rabid five years as the life of No. 4 mine was correct. The politician said of the investigation that it was a slope pillars might be taken out in less time than solemn farce, while another retorted that it was ten years. As regards proposed new slope he possibly a farcical solemnity. This shows what a thought there was a less expensive way of reaching as that of a town council. The former, however, has like to know the area and extent of the coal acquired from the Acadia. Mr. Graham then asked if unwatering the mine and putting the work-A good example of repairing a large shaft by ings into shape would be a better way. Mr. Me-Kenzie said he would not answer the question as he did not know how much area there was on the ed, at Sydney Mines. The shaft in question was Acadia side. Mr. Maxwell said 300 feet north of the main drum shaft of a large haulage engine at the Acadia Slope and 400 feet below the bottom workings in the Acadia Mine, or 750 feet below No. 12. The plan was referred to and discussed. Mr. from eight inches diameter at the journal to eleven McKenzie then said if the Government insisted upon inches at the middle. The break occurred about the royalty being paid in full he did not think it the center of the shaft. As that portion of the col- could be profitably worked. The Government would liery that was served by the engine was put out of have to give special help in royalty charges, or a commission, it was decided to try welding rather substantial bonus. Mr. Graham then asked Mr. Methan wait until a new shaft could be delivered. The Kenzie assuming the government exempt the Comactual time taken in making the weld was 16% pany from royalty, and assuming the coal on the The shaft is now in operation under the south side was all right, would it pay the Company same heavy duty as formerly, and appears to be to pump the water out. Mr. McKenzie was also giving every satisfaction. A saving of at least five told it was estimated the total quantity of water days in collery output was thus obtained against was 30,000,000 gallons and it was estimated the cost waiting until a new shaft could be delivered and of pumping and rehabilitating the mine would be about \$100,000. Mr. McKenzie said he could not answer such a question without a good deal of con-

by the War" as a sub-heading the Industrial Advocate says: "The coal output fell off 600,000 tons Hale was aske" if he had heard the policy cullined by Mr. Maxwell, and said he did not. Mr. Grelium riefly reviewed Mr. Maxwell's suggestions. Mr. article that appeared on the first of January or Hale said there was a fault between 17 and 16 which dered at as it does not pose as an authority on No. 9 would be a menace to the second seem workmining matters except at rare intervals, but that a ings. On being asked if there were 10 years' work decrease in coal output for 1915 as compared with the water than in the slope pillars. Mr. Hale was upon the area available. Mr. Tonge here went into Mr. Maxwell's proposition and outlined it to Mr. Hale. Mr. Hale said nobody knew what the disto the deep. He had worked at the construction of the tunnel and their estimates of the length of the tunnel were astray because of a difference in the pitch of the seam. He thought the seams came close together to the deep. Mr. Hale said the real question was what was the quantity of coal proposed to be abandoned. He had estimated it at 1,250,000 of the chief witnesses. For this report of the evi. it a criminal offence to connect two seams together, dence given we are indebted to the Evening News: He would like to see a slope from the surface for James G. McKenzie, called and sworn. Worked No. 2 mine and the present tunnel concreted up.

Mr. Graham asked if the scheme Mr. Maxwell out-Each was a practical working scheme for the Comny which could be successfully carried out. Mr. male said they could certainly draw the slope pillars and put a slope down for the second seam as far as there is coal to follow. Mr. Hale thought it would pay to take the water out for the sake of the coal to the deep. Mr. Graham then asked, "Is it a practical scheme to run the slope down?" to which Mr. Hale replied, "Yes, for the second seam." Is it a practical scheme for what is left below submerged? Mr. Hale said yes, to take the water out and work the coal. Mr. Hale said by the way of the Scott Pit it could not be done without a tunnel from the second seam to the main seam, and when that is done the water is still a menace. He said his best idea was to pump the water out and go on with extracting coal from the main seam as usual. Mr. Hale was then asked if that was impracticable what was the next best thing to do. He said to draw the slope pillars if considered impracticable. He was then asked if there was any other way to get at the coal in the Acadia area and Main seam. He said there was no other way without the water being a menace. Mr. Donkin remarked that Mr. Maxwell had said when the water became a menace he would remove it by tapping it and taking it out from the

Mr. Lott asked if the main seam slope pillars were drawn and the water allowed to follow up and the crush behind would it be practicable to drive the Scott pit underneath and take the water out by bore holes? Mr. Hale said it could be done, but the most practicable way was to take the water out now for the benefit of the district. Mr. Tonge said You seem to think the better way is to unwater the part of the mine now submerged. That appeals to us all. How long do you think it would prolong the life of the mine if you unwatered it? Mr. Hale said he thought about 20 years. Mr. Tonge then asked if the slopes and airways could be maintained for 20 years, the slopes now being 9,300 feet in length. Mr. Hale asked how far they could go with the present slope before they strike the Albion areas, and went on to say that putting down a new slope was a more expensive proposition than taking out the water. Questioned regarding the second seam mine, Mr. Hale spoke very well of it. The proposed plan was again rehearsed to Mr. Hale and he was asked as a practical man, if it appealed to him. He said to the Company it was practical dollars and cents but from a conservation standpoint it was not practical. Mr. Graham then said the Company did not have the money with which to unwater the mine and put it into shape again. Would it be better to adopt the proposed scheme or allow the Company to go into bankruptey? Mr. but he did not suppose the Company would be sat-The property is valuable. Mr. Graham said the commultiplied by the royalty would about equal the it be better to adopt the proposed scheme than to be in a position to make the same profits as formerly. have the mine closed down? Mr. Hale:—One alter. Mr. McKenzie was asked if it was a reasonable native is not provided and you don't know whether thing that the Government should lose the royalty they can get the money or not. Mr. Hale said his when by waiting ten years they would get the roy. eandid opinion is they cannot reach the coal in alty and more coal in addition. Mr. McKenzie said the main seam as easily as by the present slopes, it was his opinion that if the coal was not taken out Mr. Graham said his question as to the two alternative either of those slopes it would never be taken

but he would rather see them throw up the mine than draw the slope pillars, and leave the coal in the Acadia below water. Mr. Graham asked if it would be better for the town and Mr. Hale replied, that it would be better for the town and for the country. He would like to see the Drummond go ahead and do well. Mr. Hale suggested that the water be taken out of 19. If the workings were found in bad shape they could start new places in the solid except where they ran into the jigs when going through. Mr. Maxwell asked Mr. Hale if doing this work would increase operating costs, to which he replied that it would, but the cost of recovery should be spread over a term of years. An argument followed between Messrs. Hale and Maxwell regarding the quantity and quality of coal available on the south side. Mr. Graham submitted the Company's estimate of the cost of pumping out the water and renovating the workings. Mr. Hale pointed out that new pumps installed to handle the water could be utilized to reduce pumping costs in future as compared with what they were before the fire. Mr. Hale thought it would be advisable to get the best possible pumping machinery and unwater the mine just as quickly as possible. On being asked if a pump could be got to throw more than 30,600 gallons per 24 hours he said he thought it could. He admitted, however, that there would be no object in taking the water out faster than the work of repairs could be done in following the water down. Mr. Hale spoke of the work which would likely have to be done, principally on the floor and roof, and other obstacles in the slopes. Mr. Hale said the level could still be driven 500 feet in the Acadia area and leave a big pillar for the Acadia water.

Mr. Lott asked if there would be a greater liability to spontaneous combustion after the mine was unwatered than before the fire. Mr. Hale said he did not think so. He did not think from what he knew of the Drummond Colliery they need apprehend trouble on that score.

Mr. Hale was asked by Mr. Maxwell if his suggestions to drive new levels if necessary did not imply a likelihood of excessive cost in opening up the old workings. Mr. Hale said not necessarily but could not say until it was tried out. Mr. Maxwell asked if there were likely to be heavy falls on the

slopes, to which Mr. Hale replied that there might be and there might not.

Mr. Lott asked if the royalty was eliminated, if it would be a paying proposition. Mr. McKenzie said it might but the Company would not pay big dividends on it. Mr. Lott said the Government would have to do more than eliminate the royalty, Mr. McKenzie said that the Company could probtives had not been answered. Mr. Hale said that out. Mr. Tonge said everything depends on the nearly every dollar he had was invested in the town future working of the Scott Pit seam, and asked

Mr. McKenzie if it was because he did not have contunnel would be about \$30,000. fidence in the Scott Pit seam that led him to believe proposed. Mr. Tonge said there seemed to be no can readily be surmised. good reason why the Company should hesitate to go after the coal when the second seam workings were deep enough. Mr. McKenzie asked if the was getting scarce and in his opinion-apart from between being in the centre of the area and at one ments of hours and regulations about treating. years.

plained the Company's scheme to Mr. Floyd, and command that amount of "general consent" with-Mr. Floyd was then asked if he had reason to be, out which even a Liquor Control Board can scarcely lieve that the water rising in the Acadia Mine would act. In that connection it is well to remember that find its way into the Drummond Mine. Mr. Floyd when the movement for general prohibition in 1914 saic he thought it would, and gave some information which had come to him from another party to was gaining strength, the most notable support

Mr. Floyd was then asked if the Company was allowed to draw the slope pillars, maintaining an and it showed that a wholesale measure could arouse output of 800 tons per day for ten years what his an enthusiasm that would never be awakened by general opinion of it was. Mr. Floyd said he did tinkering. If the Clyde takes the same view again, not feel disposed to answer that question with the the rest of the country may well be encouraged to information at his disposal. Mr. Tonge then reviewed the situation, pointing out the disadvant- a spirit. age of unwatering the mine, and the advantage aseruing from the new slope, and discussed the quality of the second seam coal with Mr. Floyd.

Mr. Floyd suggested to Mr. Maxwell that it might be better to pump the water by way of the Acadia Mine instead of by the new slope, but Mr. Maxwell did not agree with him. Mr. Floyd also ing the first night eight natives out of the nine pertive suggestion to the proposed scheme for new slope, etc.

Messrs, James Henderson and Donald McNeil, Company officials, were sworn, and asked a few questions about the conditions of the slopes. Mr. Maxwell, General Manager, was recalled and his estimate of \$100,000 was checked up.

Mr. R. H. Gray was also called and sworn, not in his capacity as Deputy Inspector but simply as a practical mining man. He said in the course of his examination that the cost of the proposed new way guard.

This concluded the taking of evidence; next the submerged coal would not ultimately be got as comes the decision of the Board. What it will be

#### NO MORE WHISKEY FOR GLASGOW?

In suggesting to the Liquor Control Board that Company was likely to be better off financially ten the sale of whiskey should be entirely stopped in years hence than it is today. Mr. Tonge said coal Glasgow and that the public-houses should resume their former hours for the sale of beer, non-intoxithe war—there should be better times ten years cants, and light refreshments, the Glasgow Licenshence than now. The future of the Drummond was ing Authority is laying firm hands on a problem largely bound up in the Scott Pit seam. It could which few Scotsmen will deny is of special local not be possible to keep a large colliery going with importance. It may be left to sociologists to dethe comparatively small area represented by the untermine what are the conditions-racial, climatic, worked area to the deep of the Main Seam. Mr. and historic—that have wedded the Section to the McKenzie said in ten years' time there would be strongest liquors; it is very certain that beer and considerably more water to handle. Coal would the blander forms of alcohol have never gained have to be hauled from a greater depth. The tun- ground to mitigate its hold on the poorer people. nel would have to be driven at great depth, and and that the excessive consumption of it constithe coal would have to be hauled as far as they haul tutes a special Scottish problem akin to that preit today, not so far one way, but from as great a sented by vodka in Russia or absinthe in France. depth. Mr. Maxwell said there was a big difference It is a problem that cannot be solved by adjustend of it. Mr. Tonge asked Mr. McKenzie as a Scotch public-house has never been so attractive as surveyor and engineer if the coal need be lost to to lure the worker to spend his leisure in it and so the Government or the community in view of the increase his consumption. It is less comfortable, practical method of getting at it if conditions are less humane, than its English equivalent; and is such that the Company can carry on operations for most often merely a counter across which drink ten years. Mr. McKenzie said he had good reasons can be bought. And recently, in spite of drastic for saying if the coal is not taken out of those two time limits and treating rules, whiskey has been slopes it will never be taken up for the next 25 bought in large quantities and taken home. There is no doubt that the step proposed is the best so-James Floyd, called and sworn. Mr. Tonge ex. lution. The point to be settled is whether it will -which failed so lamentably and so needlesslycame from working-people and employers on the Clyde. It had no propagandist temperance origin, deal with its special problems in no less rigorous

Describing his miraculous escape from death when so many other passengers on the Persia lost their lives, Lord Montagu, of Beaulieu, stated that the boat in which he was saved capsized six times before he and his companions were picked up. Dursuggested the possibility of securing assistance in sons in the boat died. When on Friday, about eight raising money and the advisability of appealing to o'clock at night, the sufferers were picked up by the Local Government for assistance as an alternathe Ningchow, of the Blue Funnel Line, belonging to Messrs. Alfred Holt & Co., Lord Montagu had been thirty-two hours on the sea without food or water.

> A band of recruits wearing blue uniforms and white helmets presented themselves at Whitehall after travelling from Hongkong, 12,000 miles, to enlist. They comprised 21 police officers, five war-dens, five members of the Hongkong Royal Naval Dockyard Police, a sanitary inspector, and a rail-

#### (Continued from pape 6.)

No timber or wood should be used near a venaring furnace or a boiler plant. Wood for kindling should be stored some distance from the fur-

The air space between the coal and the walls and arches should be kept free of obstructions, so that a man can easily pass through.

The ash pit should at all times be supplied with

standing water, if it is available.

The water supply and some chemical fire extinguishers furnished by the operator should be kept ready for instant use

Steam Pipes.

Hot steam pipes in contact with dry timber or coal in places where the air does not circulate freely may give off heat enough to aid spontaneous combustion of the wood or coal.

If underground steam pipes which are covered with magnesia, asbestos, or other noncombustible material, are damaged, the cover should be repaired

Where steam pipes are in use, the free circulation of air should not be interrupted.

Steam pipes should not be in contact with wood or coal, or be covered with waste material, such as scrap timber or fine coar.

Keep oil and greasy waste away from steam

#### Surface Fires.

Fires starting on the surface have often spread to the shaft or other surface opening and found their way into the mine. Therefore it is wise to pay attention to possible causes of fire near the shaft

No open lights or oil should be kept in wooden structures which are within 50 feet of the entrance

Open fires for warming topmen should not be made in the head-frame of any shaft.

At mines where a side shaft or slope connects with the main shaft below the surface, and iron doors or lids are arranged at the top of the shaft, these doors should be promptly closed when a fire starts on the surface near the shaft, and the miners should be notified at once to leave the mine by a

#### Shaft Fires.

In case a fire starts in the shaft of any mine that has fireproof doors near the bottom of the shaft, has are proof doors near the bottom of and the be shut off, or water may be got to it quickly, or escape to the surface through a second opening.

If there are water pipes with sprays at the top of a shaft in which a fire starts, the spray should not be turned on without regard to the direction of the ventilating current. At a downcast shaft of the ventuating current. At a downcase, cause of the smoke and gases from the the spray should be turned on as soon as possible breathing apparatus are at hand, they should be after the alarm of fire is given. If the fire is in an upeast shaft, the sprays in the shaft should not be turned on full, as that may reverse the ventilation; turn them on enough to wet the shaft but not enough to reverse the air.

Miners should become familiar with the doors, fan housing, or other facilities in use for reversing the air current, and should know how to operate them properly in case there should be need of reversing the air in time of fire.

The reversing of the ventilating current in time of a mine fire is of gravest importance and should not be done without a full knowledge of the effect it may have on any persons who may be within the

Miners should make it a practice frequently to leave the mine workings through the second opening and should become familiar with all escape ways. At some mines the miners are required to travel the escape ways at certain intervals in order that they may know at least two ways of getting out of the mine in case of a fire

General Precautions.

Do not smoke underground,

Do not throw away eily lamp wicks underground. Do not oil car journals underground, unless the oiling is done at a suitable place and proper precautions are taken against fire.

Avoid making wooden cabins for trappers, spraggers, and others, since these are often starting points for fires,

Do not test for the presence of explosive gas with an open light.

Do not set any burning lamp on the floor or coal

d go away teaving it outling. If a light is necessary as a signal, it should be hung from a timber or other support.

Place pumps in crosscuts or in such a position parallel through the nearest crossent entry.

Water cars, when not in use for hanling water, should be kept filled and standing at places convenient for immediate use in case a fire starts.

In mines equipped with water lines, faucets, hydrants, and water plugs, the valves should be frequently opened and closed, to ascertain if a supply of water under pressure is present. The water pipe line should be protected to prevent its freezing in the winter. Hose with nozzel and connections should be kept at places convenient for emergency.

At mines having chemical fire extinguishers the miners should become familiar with the method of operation, charging, etc., and each miner should know where the extinguishers are kept.

If there are refuge chambers in a mine, the miners should frequently visit these chambers, so as to know where they are and what is the quickest way to reach them from the working places. Open lamps should not be used in refuge chambers.

Use of Breathing Apparatus. ventilating doors may be reached and placed in such positions as to change the direction of the air current, thus preventing smoke and gases from going into parts of the mine where the men are working, It may be that none of these things can be done be put on by men trained in their use, and these men should do the work necessary to get control of the ventilation and the fire.

Signaling an Alarm of Fire.

In order that the men throughout different parts of the workings may be informed of a fire in time to escape, a large number of mines have some signaling equipment by which it is easy for workmen outside or in different parts of the mine to start an alarm which can be quickly given to all parts of

the mine. Fire-alarm equipment includes the fol-creased. The gases given off by some dry ex-

tached at various stations. The whistles are blown away, especially if a current of air is passing. by turning compressed air into the pipes.

(2) Electric gongs which can be made to ring by throwing in switches placed at different points a mne fire is to throw it on so that it will be well throughout the mine. These switches are often distributed, rather than to throw on a large amount. placed within a box having a glass lid. The glass is broken when it is desired to close the switch.

(3) A system of electric wires, to which are at-

(4) Telephones are also used, with stations at the surface, near the bottom of shafts, and at differ- of water is needed to put out a mine fire at a face,

A code of signals is placed at each signal station to insure the right signal being given.

Each and every miner should become familiar should be able to use it in case of fire.

Extinguishers. When you throw sand, salt, powdered limestone, to reduce its size. or any other dry extinguisher on a fire, throw it

tinguishers do not burn, but take up some of the heat (1) A system of pipes to which whistles are at from the fire, become heated, and quickly move

Use of Water Nozzles. The important thing to do in throwing water on

The space in which men have to work in fighting most mine fires is small and narrow, consetached in various parts of the mine lights with red The force exerted on the nozzle by the jet of water quently one man has to handle the hose and nozzle. globes, with switches arranged as described under makes the handling of the hose under a high pressure tiring work.

It is a mistake to assume that a large volume thus requiring a nozzle with a large opening. Better and quicker results may be had by using nozzles of one-half or five-eights inch opening, and the stream of water can be kept under better control, with the system in use where he is working and If the large nozzle does not discharge water with force enough to reach the fire, the nozzle may be made to throw farther by partly plugging the hole

If the pressure in the water-supply pipe is reg-Dry materials, such as those named, act ulated by a valve between the main line and the largely as a screen or blanket by absorbing the heat hose, and the pressure is indicated by a pressure of the flame and cooling it, in much the same way gauge, the pressure upon the hose to which the nozas the wire gauze of a safety lamp cools flame. By zle is attached should be not less than 25 pounds throwing the material on forcibly the effect is in- nor more than 50 pounds per square inch.

(Continued next issue)

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## Synopsis of Coal Mines Regulations.

OAL mining rights of the Dominion, in Manitolia, Saskatchewan and in a portion of the Pvukon Territory, the North-West Territorics and in a portion of the province of British Columbia, may be lessed for a term of twenty-one years remeal for a further term of 21 years at an annual rental of 31 an acre. Not more than 2569 acree will be based to more remission.

Application for a lesse must be made by the applicant in person to the Agent or Sub-Agent of the district in which the rights applied

In surveyed territory the land must be described by sections, or

In surveyed territory the laint must be described by sections, or legal sub-divisions of sections, and in uncurveyed territory, the tract applied for shall be staked out by the spisiant himself.

Each application must be accompanied by a few of \$6\$ which will be refunded if the rights applied for area available, but not otherwise. A royalty shall be paid on the merchantable output of the mine at the rate of five cents per fon.

The person operating the mine shall furnish the  $\Delta$ gent with sworn The person operating the mine shall furnish the Agent with swom returns accounting for the full quantity of merchantable cost numer and pay the royalty thereon. If the coal mining rights are not being operated, such rura should be furnished at least once a year. The lease will include the coal mining rights only, rescinded by Chap. 27 of 4.5 George V. assented to 12th June, 1914.

For full information application should be made to the Secretary of the Department of the Interior, Ottawa, or to any Agent or Sub-Agent

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

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