Lead in 9.8. p. 4

ING RECOR

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and Coal for Household Use

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Screened, Run-of-Mine Slack. First Class both for Domestic and Steam Purposes.

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Apply to Inverness Railway and Coal Company Invernee, Cape Breton J. McGILLIVRAY, General Manager.

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436.	STATIONS.	437.
A. M.		P. M.
N XX	POINT TUPPEN	8 40 7
1/20	PORT HAWKENBURY	3 %
100	PORT HASTINGS	4 60
241	CRRIGNES	4 20
9 37	CRAIGMORE	4 02
1 55	JUDIQUE MARYVILLE	300
8 40	PORT HOOR	5.30
7.00	GLENCOR MABOU	5 48
7 40	GLENDYRE	14.8
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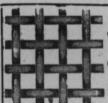
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7,45 a. m. 10.15 a. m. following day. WO

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6,40 p. m, 11,40 p. m. following day.

Used by Collieries in Lancashire, Stafford-

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3.00 p. m. 7,40 p. m. following day.

9.25 m. m. 4.00 p. m. following day

J. W. CUMMING, 2 SON,

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We manufacture a complete line of Tools for the Coal Mine, the Plaster Mine and the Lumberman

Wood or Steel let CUMMING'S make it.

OUR PRODUCTS!

Coal Boring Machines. Stone Boring Machines. Breast Augers. Tamp Bars Spike Bars Machine Picks. Picks. Needles, Stemmers.

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All Our Tools are built on practicable lines, and guaranteed to give satisfaction.

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Concerning the 'Record'

The first Number of the 'Trades Journal' was issued the first Wednesday of 1880. The 'Journal' while taking a deep interest in the Coal Trade, was more particularly interested in matters affecting the welfare of those employed in the coal mines of the Province. Its aim was to secure for these better working conditions, and to give them the standing in the community to which, it thought, they were That much good was accomplished along these and kindred lines is acknowledged by all able to make comparison between conditions as they existed in 1880 and as they exist now.

In 1898 the name was changed to the Maritime Mining Record, in order to express more distinctly the place it was intended to occupy. Since then, till now, its pages have been devoted chiefly to coal mining, which is the staple industry in Nova Scotia. With the growth of the trade it has grown in influence, and is now considered the one reliable authority on all matters connected with the coal trade.

MARITIME MINING RECORD

Vol. 20

Stellarton, N. S., March 13th., 1918

CONSCRIPTION OF WEALTH

· A good deal of nonsense has been talked in recent days about the conscription of wealth, and it was just as well that both the Chancellor of the Byjust as well that both the Chancellor of the P. par of the setting of disputed but all interna-chequer and Mr. Asquith should have made them not simply the setting of disputed but all interna-selves quite clear on the subject as they did on tional questions. These questions should be discus-tureday night. We all believe in the conscription sed with the fullest publicity; secret diplomacy must Tuesday night. We all believe in the conscription of the term be a thing of the past. Peace Courts have hitherto of wealth, but we must have a definition of the term. be a thing of the past. Peace Courts have hitherto Wealth has been conscripted in this country for a supported themselves upon moral sussion, but until good many years past. The very income tax itself humanity has learned better, force seems to be a is a form of conscription of wealth. The super-tax necessity. This force would be represented by an is an extension of the conscription of wealth, and the international armyland navy for the policing of the excess profits tax will not come under any other desense and to be used as a last resort against any fastion. But what some people mean by conscription which broke its pledged word of honour. An inition of earth is a resort against any fastion of the conscription of the cons (tion of wealth is a levy on capital. For twenty-three effective weapon would be the boycott, to be put in certainly would not be in the interests of the poorest classes of the community.

We think we remember seeing an account of some of the early Russian revolutionaries going to the banks to demand the capital of certain manufacturers. They did not realise the meaning of the term Capital. We must always realise, in discussing this matter, that it is important above everything else that no suspicion of repudiation of obligations, either by direct or indirect means, should ever be allowed in regard to the British National Debt. To write off a proportion of that, as is recommended by some unthinking Socialists, would be a breach of faith, and it is impossible to make a difference between wealth lent to the country, brough patriotic motives, in its time of need and other wealth which may be being used for equally necessary purposes in the national economy. The taxation of wealth up to the limits of the country's necessities, yes; but a levy on capital, no. Nothing would do more to undermine that which is one of the greatest of British assets, and makes all of us richer than we should otherwise be British financial stability.

THE LEAGUE OF NATIONS

Rev. F. C. Spurr's monthly lecture on Sunday heartily sick of the war and auxious for a just peace; that the most drastic method of submarine warfare but no basis for a just peace was to be found in should be employed. One admitted the possibility Count Hertling's speech to the Reichstag, and so of Germany not being able to hold out, and another for the time being things must go on. But while said that, although some German firms had made working and waiting for a righteous end to the war, enormous profits out of army contracts, etc., the it was essential that we should also think and plan great mass of people were at the end of their reand work for the world that ought to be and must sources. be after the war. There were but two ways open, the one the continuation and even the acceleration and increase of militarism, the other the adoption of suburbs has been inaugurated at Ealing. The pupa League of Nations. Such a league must of neces- ils will be wounded sailors.

sity be based upon co-operation and a recognition that each nation, large or small, had its distinctive contribution to make to the common weal of the world. An international Court or Parliament was part of the scheme, to which should be committed years past (singe Sir William Harcourt's famous force by the rest of the League against any recal-Budget) a levy of capital has been made—the capital citrant nation. The League of Nations implies a of dead men. But a levy on the capital of living higher moral standard than the world has the men might have very far-reaching consequences, and known, and it can hardly succeed unless it can draw amon the power of religion.

A MEASURE OF DESPERATION FOR

The Amsterdam "Handelsblad" (says the Press Association) has a long article explaining the adoption by Germnay of the policy of unlimited submarine warfare. Circumstances: it says, of a romantic character placed in the hands of a correspondent a number of important documents bearing upon this question. At the close of the year 1915 the German Admiralty Staff prepared a semi-official memorandum to prove to the Kaiser and the Chancellor that an unrestricted submarine campaign would compel Great Britain to sue for peace "in six months at the most." They reinforced their argument by adducing the evidence of ten experts, representing finance, commerce, the mining industry, and agriculture. All these agreed that with unrestricted submarine warfare England would have to sue for peace in six months at the most. Herr Muller, president of the Dresdner Bank, held that three months should do it. Dr. Salomonsohn, owing to the absence of the spirit of self-sacrifice among the English people, also thought six months an excessive estimate.

Again, all the experts agreed (and this, two years evening was devoted to be fopic of "Christianity ago, was the point that weighed most with them) and the League of Nation." Everyone, he said, was that the internal situation in Germany demanded

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MARITIME MINING RECORD.

THE MARITUME MINING RECORD is published the cond and fourth Wednesday in each month.

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

Advertising Rates, which are moderate, may be had on Subscription \$1.00 a Year.

Single copies 5 cents

R DRUMMNOD.

PUBLISHER.

STELVARTON, N. S.

March 13, 1918

THE ALLAN SHAFT INQUEST.

Jury's Verdict.

The following is the finding of the jury in the inquest into the Allan Mine disaster:

We, the Jury empannelled to inquire into the cause of the death of the victims of the Allan Shaft Disaster of January 23, 1918, after hearing all avail- and found no gas there. able evidence, and considering the same, hereby submit the following verdict:

A That the deceased party came to his death as found any gas there.

Thos. Hale said the mine was too dusty. the result of an explosion. The cause of such explosion although not absolutely proven, yet it would Mal. Beaton said that in the appear from the evidence that quite probably the dust had been fused into coke. explosion originated in or about Bord No. 2, Balance 1 1-2 on the 1200 foot level. And aslo, that at an read we can go no further than to say that we can other, point of about the same elevation in Cage not accept the jury's "probability" as conveying South East, 1200 ft. level, fire was discovered to the more than a possibility, and not at all as a certainty.

After opportunity has been afforded of reading.

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Disappointment has been expressed with what is Disappointment has been expressed with what is most. Did heat, in racing from danger, cause per-termed the halting words of the verdict. Curiously spiration to which dry fine dust adhered, or was that is the feature of the verdict which best satisfies moist dust hurled by the blast against their faces? the Record. We cannot imagine that experts on a The more one thinks of the disaster the more puzzled jury would risk ruining, or marring, their reputa- he becomes as to the causes leading to it. of a positive belief, as to the immediate cause of, and the precise spot in which occurred, the mishap. We cannot do other than commend the caution, hesitation if you will, of the jury as a whole.

Before endorsing the opinion as to the seat of explosion one must have at hand the long hand notes having a somewhat trying tige or it. His mean mison reading the evidence as furnished by the press.

of previous explosions in Nova Scotia, and, it can also be said, of a majority, at least, of explosions occurring on the American continent. It was stated in evidence that the most damage was done in Bord No. 2, and because of this the seat of the explosion was there. Does that necessarily follow? It did not in the case of the Drumwond, nor Springhill, nor in the case of New Waterford if the seat of the explosion in the latter instance is not to be disputed.

As a rule an explosion gathers force as it speeds

The explosion in the Allan was not confined to a particular spot.

What then fed it. Dust or gas? Possibly a fuller report of the evidence may disclose why the mine or No. 1 1-2 balance was freer from dust prior to than subsequent to the explosion. Thos. Scott's evidence was to the effect that 1 12

balance was very wet; no dust there.

Sprinkling of dusty mines is presumed to be a preventative of dust explosions. cause the explosion, and was it the heat from the gas that caused the moist slack to cake on the root, or sides, or on the props?

Thos. Scott worked for two weeks in No. 2 bord

Robt. McNeil swore he examined No. 1 1-2 balance the morning of the day of the explosion and "never"

Mal. Beaton said that in the 1. 1-2 balance the

24th day of January and subsequently near After opportunity has been afforded of reading fire was also found a wire of different nature to any the evidence in full, we may arrive at some definite "We would, therefore, recommend that the Gov- plosion, and that opinion may coinicde with that ernment of Nova Scotia be asked to confer with the expressed by those who examined the mine after the Federation of Labor and appoint an expert commis- explosion. If it does, and therein differs from the sion to thoroughly investigate all matters connected, opinion hinted at in what we have here expressed, "And would further recommend that more strin- By the way, as a postscript, we might say that while and would further recommend that more string by the way, as a postseript, we might say that white grant legislation be enacted in regard to the grant, the balance was long—600 feet, the No. 2 bord was ing of Certificates to Miners, Examiners and Shot short, only about 45 feet; and further, by the way, "And further recommend that the Mining rules among the first bodies taken to the surface, that be printed in the different languages of all employ- they appeared, and felt, as if they had received a coat of black paint. The smut on the faces was

REPLACING THE FUEL CONTROLLER

in No. 2 Bord, as suggested, far more evidence must declare that he himself stultification of the control of th be forthcoming than the condensed notes appearing production. He made the big mistake of placing price on a parity,-if not giving it a place precedent The explosion acted differently than in the case have been his first and his chief care, and price have

taken a secondary place.

of the effect the price set might have on production, who has a bee in his bonnet. With the Chinese as Had the setting of a price a little over four dollars serfs, under the drivership of the A. M. W. execu-Undoubtedly. Some operators were carless whether in so strong a position that the occupation of the they produced any coal at the set price. In fact they Fuel Controllers so far as it at present encerns Nova said they would sooner allow the coal to remain in Scotiae will be gone. The success of either of the the mine than blast, or cut, it at the price. Why schemes places the position of others than the Fuelshould the Canadian Fuel Controller fix a price much Controller in jeopardy. Confusion will show on the less than what the C. P. R., for instance, was ready face of all who have predicted that there may be a to pay? That railway has bought more coal than decrease in Nova Scotia output this year of 400,000 Mr. McGrath may ever have the privilege of control- tons. Instead of that, if both schemes do not misling, and its management, it may be taken for grant- carry, nineteen-eighteen will show a handsome in-ed, never paid a higher price than absolutely neces 'crease—say 300,000—over the production of nine. sary. Why then was the price set by the Fuel Con-teen seventeen, its immediate predecessor, troller less than the C. P. R. is ready and willing to Record meantime is content to "bide awee." pay? Is Mr. McGrath aware that the Canadian Government Railway will have to pay about a dollar a ton more for a portion of its coal than the price allowed the coal operators? Coal sold under contract to the C. P. R. has been commandeered, or confiscated, by the Canadian Government Railway. It has been decided in the United States that coal div- the Local Government to inquire into the mine fires erted to government purposes, when in transit to in Pictou County was not originally asked for as those who had contracted for it, must pay the con- many suppose, for the purpose of ascertaining the tract price. It should follow then in Canada that cause of their long continuance, or of devising some coal shipped for the C. P. R. and seized by the schemes to extinguish them, but for the purpose of C. G. R. must pay the original contract price. Had ascertaining whether or not it was possible to re-

tors, in fact as high a price as other customers were that there was sufficient pillar coal to warrant atready to pay, the operators would surely have striven tempts to recover it. The evidence given by old after an increased production. The unprofitable miners who had worked in several of the closed price retarded production; a reasonable and paying mines, was contradictory, and the plans were held price would have stimulated it. McGrath should not to be reliable. The Commission's finding was not form new associations. The scriptural saying is, "If stimulating. It should not be forgotten, however, the blind lead the blind both fall into the ditch." that what could not be an economic proposition a He took with him on his last visit to Nova Scotia the score or more years ago may be a sound one to-day. well advertised Jimmy Watters, the upshot being a This seems to be borne out by the fact that coal is promise from Jimmie's friends that the output will now being taken out of a mine in the United States be increased 60,000 tons or over monthly. Mr. which has been burning for nearly three score years. McGrath had better not bank too much on that.

From this time forth Mr. McGrath's position will ing on this point: be a comparatively easy one, at least that part of it which halto do with the controlling of Nova Scotia ing a considerable quantity of coal for months past coal. With the assistance of the celebrated James from the seams laying beyond the barrier wall by Watters he has secured from the offices of the Amal- which the great fire at Summit Hill (dating from watters he has secured from the orders of the Amar which the great life at similar lift (dating From gamated Mine Workers of N. S. an assurance that 1859) has been confined. Great as was the work they will increase the output fifteen thousand, or involved in the building of the wall considerably in more, tons a week or, say, 60,000 tons a month. This advance of the former area of the fire, wast as was feat is to be accomplished immediately. This addition the amount of material put into it, the heat penetional increase will render any further anxiety on trated the wall and took a certain amount of vola-Mr. McGrath's part unnecessary and, of course, tile matter from the coal immediately adjacent therethere being no work for him to do in the east he will to. But the coal beyond is mostly of the celebrated be able to devote all his energies to keeping things Mammoth vein and is recovered by the stripping up to the mark in the west, and on the border line, process, thus permitting open-air inspection and the This increased production is to be brought about by shipping of a first class article. By excavating a men may not be obtainable. Even so, the 60,000 tons ever, since there has been created a great interven-a month may not be lost. The A. M. W. has another ing space containing no fuel. card up its sleeve. It will allow the Government to 7 "The first steps taken in the successful attempt to at any and all times, at discretion, and without any lustrated article with reference to the work then

interference by the Government, except the shelling And one win Mr. McGrath has made a milar mis- out of return prepaid passages. The scheme is a very take. He was first the price, seemingly regardless, modest one, and will commend itself to every man ton the effect of diminishing production? tive, coal production in Nova Scotia will be placed

COAL FROM BURNING MINES.

The Commission' appointed, many years ago, by

ment that a fair price should be given to the opera- the mines, which had escaped fire. Many contended Here is a clipping from the Coal Trade Journal bear-

"The Lehigh Coal & Navigation Co. has been takthe A. M. W. procuring a thousand men in the great portion of the coal bed, as has been done, the Ancient Colony. There is the possibility that the question of the fire spreading has been settled for

import Chinese, provided the society is given con-check the fire at the burning mine near Summit Hill trol of the mines and secures all of the profit, and were in the spring of 1909, and in the issue of May has the privilege and power to deport the Chinamen 12th that year, the Journal contained a detailed, il-

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under May. As therein mentioned, it was determining round one necks and kissed us and cheered. It under way. As therein meneboled, it was determine uning round one neeks and kissed as and eneered. It does not neek so a spart 50 feet, and for a width of must confess that I had a lump im my throat and a 12 feet, from the outcoop of the northern end to the moist eye. One old boy gave an officer a hasdful of this excavation with clay or concrete, thus establish-home in a day or two-it will be worth keeping."

UNITED STATES EXPORTS TO CANADA.

000 tons. Combining anthracite and bituminous, the imports, in 1917, exceed those of 1916 by 1500,000 This is what our friends across the line would entitle "some increase:" And it undoubtedly is, and is proof that last year Canada had great industrial activity, and this increase does not include importations by water to Atlantic ports.

Rubs by Rambler

The Herald in its headlines over the verdict of the in the Allan disaster inquest says, among other atch words, "Stand taken by Halifax Herald endates words, ctand based by pages of fullest dorsed. Why are other papers opposed to fullest investigation?" Such an introduction is wholly unfair. The Record is certain that no paper in Pictou County opposed a thorough investigation, and I am unaware of the fact if any paper outside the County made slightest objection, or even threw luke warm water on a real and timely investigation. The Herald was astray in the stand it first assumed. The Pictou papers were right. The former called for immediate investigation; the latter held that no investigation could properly take place until the mine had been practically repaired, making close investigation possible. And no investigation will likely take place until the mine can be freely explored in every part, when all the debris has been cleared away. The cleaning up may be finished in a day or two, or it may thee a week or two. And before any investiga-

He belonged to the army of invasion, but he was neither an officer nor a private who was the first to enter Jerusalem when the historic city was captured by the British. The following interesting extracts are from a racy letter written by ah officer to a friend in England. Here are incidents that well may go down to history:

"I shall never forget the joy of the poor inhabitants as we marched in -the first British troops. They had waited three years for the day, and they simply

standing water is the basin, and afterwards to fill new Turk coins for all the officers. I will send mine ing a solid non-combustile character. The result "By the way," he continues, "early in the morning was a solid wall of concrete 12 feet thick and about of Sunday our officers, cook and another man set out from our camel ines with a dixie of hot cocoa for the officers. We knew he was coming, and as we had had nothing hot for 48 hours we were not very much pleased when he became very much over-United States 3,862,000 odd tons of anthracite year, of 1,163,000 tons. Of bituminous there were imported into Canada from the scared. He had lost his way, and marching through against 5,025,600 odd tons in 1917, an increase; last majorted 12 849,000 odd tons in 1916 against 26,192, of cocoa, so you see there is humor even in war."

It might be expected that Britain being an old country, and holding a foremost place in manufactthres that there would be little room for new indus-tries after the war. It is now realized that there must be new industries when all the munitions. machinery has either to be scrapped or employed in the directions. In Britain they are taking time by the forelock, and a committee has been appointed for the purpose of pointing out new and necessary channels for trade. It is time a committee modelled after the British lines should get to work in Canada. Among other things the committee has to make recommendations as to the establishment and development of these new industries by the transfer of labor or machinery, or by other measures. Also as to how such transfer could best be made, and what organization would be needed for the purpose, with due regard to securing the co-operation of labor. To give help on this side of work a labor advisory panel is being formed, consisting of representatives of skilled, semi-skilled, and unskilled workers, and of women. With this panel the committee will work in co-operation on questions concerning labor. It is pointed out that the need for such a list of articles and for some organized effort to make them at home has been amply shown by the war, which revealed our dependency on many countries, including the enemy, for articles vital to our industries and even to our war equipment. "Rush" orders to many countries were necessary before we could obtain them, and but for these special efforts and favorable circumstances which enabled us to import these tion can well be made the evidence taken at the in. mittee has already covered some of the preliminary ground of its inquiry, and lists of imported engineering articles have been compiled from information supplied by merchants, trade associations, and others. The lists embrace hundreds ofarticles, ranging from the biggest engineering tools down to the smallest accessories.

> Had it not been for the explosion at New Waterford last July the fiscal year, ending Sept. 1917, would have fewer accidents to its debit than any year of the past decade. The number of, what maybe termed, individual fatalities, numbered twenty

C ntinued on page 12.

AROUND THE COLLIERIES

One has often heard of flameless powder. In reality, is there any such thing? If the result of a blown out shot is a stream of fire, then powder without flame is a myth.

Mr. Scott in giving evidence at the inquest said that the discontinuance of powder would diminish the output by a third. Well, what of it? If it comes to a question of lives or outputs, which should pre-

The Commission to make inquiry on behalf of the Department of Mines is not likely to be appointed until all the falls in the Allan mine have been cleared away, and the evidence taken at the inquest has been fully written out and digested.

The heavy electric cables for the new haulage in Dominion Nos. 2 and 9 have been placed in position in the shaft, and connected up to the haulage engine. When the roadways and landings are ready the new system will begin.

The Record has, since the New Waterford explosion, contended that as the duties of mine examiner

When a year or more ago the shipments for the calendar year did not show ap as well as those for the fiscal year, the Record said, "Wait a bit and next year the fiscal year will get it in the neck," and it has gotten it. The decrease for the fiscal year 1917 is 790,000 tons. This dwarfs the decrease for the calendar year. The loss of revenue is not far from

The trustee for the Roche's estate is prosecuting work at St. Rose, as well as Chimney Corner. The slope at St. Rose is about 300 feet in length and is through his knowledge of mine ventilation, gained being pushed forward. A fifty feet shaft has been while studying for his second-class mining certificate, sunk to assist in ventilation. The seam is said to be On feeling a rush of wind indicating an explosion, 8 ft, thick. In the winter months about 60 tons a he collected his men and closed two doors, which month of coal were sold in the vicinity. This should short-circuited the air and drove away the poisonous help defray part expense of the exploratory work. fumes. While the men stayed there he explored the Of course a big business cannot be done at either pit and finally led them all out into safety. It has Chimney Corner or St. Rose until there are railway, now been ascertained that the total number of vic-or water transportation facilities, or both. or water transportation facilities, or both.

Prospecting is still being carried on at Port Hood in an effort to find out the most suitable place for a new slope, or shaft. The shaft sunk a few months ago has been abandoned meantime, and another will be sunk nearer the village and close to the shore.

Some work has also been done at Mabou. A tunnel was driven some distance from the mouth of the slope formerly worked and presently flooded. This tunnel is to be driven until the coal has been reached when a level will be driven to prove the coal is the

Gold mining was at a low ebb in 1917. The quartz crushed was less than that of 1862, the first year for which there are any official figures. The quantity per ton crushed was close on 8 dwts., the best yield for many years.

The new wage agreement between the Dominion and other coal companies of Cape Breton has been signed up. The increase is a good one, and but for the fact that the executive officers of the Union are important, a more rigid examination, as to quali-deluded their members into making exorbitant defication, should be had, and that the examination, as mands, there would be general satisfaction. To ask to competency, should be by the Board granting for increases ranging from 35 per cent to 100 per certificates to overmen and the general manager. cent and get a small fraction of the amount is far from being good business. It may, however, serve as an election cry to those who forget that they may want to travel that road again.

> Presence of mind and courage and a little technical knowledge are a fine combination and a splendid asset for the possessor. Last week reference was made to a great mitte explosion in England. The lives lost were not as numerous as the first reports indicated. A British paper contains the following interesting item in regard to the saving of no fewer than forty-eight lives :- "Forty-eight lives were saved in the Minnie Pit disaster by a colliery fireman,

pre

AROUND THE COLLIERIES.

Quite a few classes of the workmen at the different collieries have accepted pay by the month instead of cials of the A. M. W. of N. S. officials in the collieries. They know, or seem to know, so much about

The coal mines used to be attractive to farmers, fishermen, and most all other classes of labor, but it is now not unusual to hear that some of the older miners are going fishing, or going back, not to the

When it is known that the mine water of some of the Nova Scotia collieries will eat through the end of a pump within twenty-four hours, and, that, so far, all metal compounds have failed, maple wood or concrete forming the lining of valves, it will be seen that coal mining has problems of many kinds.

The Emery is one of the lower seams underlying the Phalen seam. It is a four foot seam. In the Reserve district where it was first opened up it has yielded fair outputs. When tapped close to Dominion No. 3, for a time it was very discouraging because the coal was found to be very thin for long stretches. Since going through this troubled ground the seam has proved very much better running in places from four to five feet. It is now in a very good district of coal at No. II and we trust it will continue to im-

The Glace Bay Gazette is not sure whether the demand to be made by the A. M. W. means that the defined to be made by the A. M. W. means that the Government are to have no Deputy Inspectors of Mines than those named by the A. M. W., or whether the latter are to be in addition to those appointed the fitter are to be in addition to those appointed by the Government, for its own behoof, etc. The Mining Record is of opinion that it is a reform in the mode of appointment that the A. M. W. is keen to effect. The present deputies are to walk the plank

how to obtain larger outputs of coal that they would be benefactors to the country at a time when larger outputs are very much needed. Surely they would be willing to put their knowledge to the benefit of their country, if properly appealed to.

As predicted by the Record at the time of the negotiations between the P. W. A. and the opposing sunion, that no matter what the latter for the time being called itself, the ultimate aim was to convert a Nova Scotian into an American union. A vote has been taken as to amalgamation with the A. M. W. of America and the decision is to join the foreign order. If the Record is not greatly mistaken the local government and the other prominent abetters of the new union will have their fill of it in the com-

then right," or will we give orders for the wearing of a capacious mantle of charity.

Commenting on the Allan mine disaster verdict the Eastern Chronicle says :-- "On the whole the verdict appears to be a compromise between men of dif-ferent mind. The recommendations may be useful, recreasing the recommendations may be useful especially by the government tightening up the regulations. No one will object to the government conferring with the Federation of Labor so far as members of that body have positive knowledge of coal mining; but the people who own the mines expect that the government will take such steps independent of anyone that will render a recurrerce of such an explosion improbable—we will not write 'impossible,' for that is beyond human power."

The Record thinks that the Chroniele's point in reference to the government holding consultation with the American Federation of Labor is well taken. Why should not the Acadia Coal Coy, and the operators in general be consulted? The aim of the Federators in general beconsulted? to erect. The present deputies are to walk the plank ation is to promote the welfare and safety of the and a brand new set selected and named, by the mine workers; and the aim of the management of society, take their places. The only thing the Gov-the Acadia is to conserve the company's property.

The desire of the management, no doubt, is to employed the company of the management, no doubt, is to employed. eriment with have to do with the deputies had appropriate desire of the management, no doubt, is to enpointed is unimportant, namely, the payment of the ploy every legitimate, and likely, means to prevent salaries. The thing is so simple that one cannot for the company's property being destroyed, by exploa moment doubt the ready compliance of the legis sions. As a rule it follows that destruction of pre-lature. The thing to surprise one is the modesty perty follows destruction of lives, so the account of the demand. Why didn't the A. M. W. put on management is to do all, humanly possible, to pre-their programme the appointment of the Inspector vant disasters such as that of the Allan Shaft. We follow the discontinue that the companies are ready to discontinue the use of powder, though that would discontinue the use of powder, though that would the possibly inconvenience them more than it would the

AROUND THE COLLIERIES

The riding rakes have been placed on the main deeps of Dominion No. 6. At present men go down in the pit boxes, but proper cars will be put on shortly. The grade of No. 6 slope is heavier than the others in the Glace Bay district and favours the riding rake system. This will be a great advantage to the workmen as the long walk to the coal faces is a decided disadvantage in the older collieries.

A little mining is being done at Chimney Cove. The coal being mined, from exploratory work, finds ready sale in the neighborhood. A slope is being sunk. The angle is pretty steep, some thirty-three degrees, but this, as yet, is not a disadvantage as it is a guarantee of sufficient cover when the slope reaches the water. It will, of course, be better that the pitch, as at Mabou, lessens as it goes under the sea. Mr. J. J. Doucet is mine manager.

The Jubilee colliery at Sydney mines has not been the most successful operation since it was opened up. The matter of a little brass mixture may seem a small thing but when it is found in the places where the coal is mined it presents a very serious problem indeed. The Jubilees (2) are unfortunate in this respect. Were the seams high the difficulty might be better overcome but in a low seam there is little chance to cope with the difficulty.

To the Fuel Controller the three members of the A. M. W. said they would go to Newfoundland, and get a thousand men. In an interview the speaking official of the society increased the number to 1,200. Possibly before the officials set out on their mission they may leave orders to have accommodation provided for 1,500. Well, to secure 1,500 mine workers is a big undertaking. In going forth for much wool it is to be hoped the delegation will not return closely

For the first time, probably, in the history of the provincial coal trage, Nova Scotia was a better cust two, as against 29 for 1916, 41 for 1915 and 48 for tomer of the collieries than all other markets com1913. The per centage of fatalities to every 1.000 bined. Of the coal production for the fiscal year the men employed was 2.13 and 3.38 for every million province out of a total of 5,143,000 odd tons, took tons of coal mined. These are the lowest for ten 2,880,000 tons. If bunker coal be included in Nova years at least. The per centage in each case are Scotia's figures then the local market took three-lower than in the United States. This should be fifths of the total production. Also for the first proof that our mines are not the worst conducted time New Brunswick is the best outside customer, in the world. It should not be forgotten that coal taking as much as Newfoundland, Quebec and the mining in Nova Scotia is subjected to disadvantages United States combined. Newfoundland is a fairly from which most other countries are more or less good customer, taking over 236,000 tons.

There are nineteen coal companies doing business at the present time. More than half, or ten, are mining in Cumberland County. The output of some of these is, of course, limited. Springhill leads, but it better look out for its laurels as the Maritime Coal Companies, Pictou four, and Inverness one—in operation, and two developing.

"The indictment of Michael MacIntosh, Angus McEachren and John MacDonald, officials of the Dominion No. 12 colliery, New Waterford, for criminal negligence alleged contributory to the causes of the explosion which occurred on July 25th, 1917, have been filed. The charges will be heard at a special session of the court, the date to be decided upon to suit the convenience of counsel. Judge Chisholm is ill just now and the date will be definitely decided upon when he is able to open the court.'

The foregoing is from the Sydney Post. But what has it against Mr. McIntosh that it gave him away while cloaking the identity of the others? Had the Post given the names as Michael McDonald, Angus McIntosh and John McEachren it would not be open to any charge of discrimination. The indictment as published is in substance that Mr. McIntosh was a deputy inspector of Mines, and was under a legal duty to take reasonable precautions to insure the operation of the said colliery Dom. No. 12 E. M. R.) in a manner calculated to prevent loss of life, through an explosion or otherwise, and being under the obligation of preventing the operation of mining coal in said colliery in an illegal manner, unlawfully permitted without lawful excuse the said colliery to be operated in an improper and illegal manner. . . . without a proper and efficient use of brattice, etc., etc., The Record wonders if in seizing upon Michael they have hold of the right man.

RUBS-(Continued from page 9.)

free. The percentage of fatalities is very high, if

the New Waterford fatalities be added to the inthe New Waterioru immittes pe added to the in-Considerable quanties of tungsten are used in the dividual showing no less than 8.41 per 1,000 em-making of tungstates, which are used as a mordant dividual showing no less than 8.41 per 1,000 cm- making of tungstates, which are used as a mordant played. Next year it is possible, unless the indiv- in dyeing to give weight-to silks, and in rendering idual accidents are very few, that the per centage fabrics fireproof; but the one demand for tungsten will be even less favorable. The Allan Shaft disaster is in the making of steel, the adding of a small portage. will be even less ravorable. The Allan Shart disaster is in the making of steel, the adding of a small por-will be included in the 1918 Mines Report. This is tion of tungsten increases the elasticity and tensile the first time in Nova Scotia when two big disasters strength of the steel. first movement has evidently been of service, as the Satalities from falls are fewer than from those by cages, and boxes. While an accident from a fall may be of the kind called accidental, it is to be feared that more than one of the fatalities caused by feared that more than one of the fatalities caused by boxes were preventable, being due to men taking The Bishop of Liverpool, preaching at 'Aigburth risks or evading the law. It is a great pity that the for the C.E.T.S., said that while travelling recently mines Report persists in refusing to give any exhe had got into talk a Colonial lad, who asked, three cases is there satisfactory explanation as to the thing in your country? Why don't you stop this tempted as we are? Mine is a dry country, where in two of these cases the mine officials may be held to be blameworthy. Sorely a is not to be inferred that in a majority of the other cases the victims were, at least, partly responsible for the accident. Suppose a stranger were to put the question to a Nova Scotian, "How many of the mine fatalities in your country are due to breaches of discipline, and how many to the fault of the bosses or companies." What answer could be possibly make? None, and there is no one to go to who could supply the information. It is evident, then, when we talk of fatalthe negligence or rashness of the workmen, we are tdlking on a point on which every Nova Scotian is

tempted as we are? Mine is a dry country, where we have no such temptation as you have."

Mr. Arthur Henderson, M.P., speaking at a meeting of delegates of the Labour Party Conference, convened by the Committee of the Strength of Britain Movement, said that he believed if prohibition had been proposed during the first three months of the war it would have been almost unanimously accepted, and might have had a wonderful influence

Lord d'Abernon, speaking at Glasgow, said there are now about 700 canteens in munition works, of which 150 were in national factories and 550 in conwater for ever it mational factories and soo in controlled establishments. Less than 100 of these had been established before the war. These establishments served about 900,000 workers with 400,000 ments served about 900,000 workers with 400,000 ments. cooked meals daily, and their total turnover was not less than 22,500,000 a year. Much more, how-ver, must be done before the needs of all workers were met, and Lord d'Abernon pointed out that the cost of creeting and equipping a canteen at a con-trolled establishment may, with the approval of the Central Board, be met from excess profits.

Speaking at Oldham, Mr. Clynes declared that nothing but disunity could wreck the promising future of the reconstituted Labor party and delay their

ZINC-COPPER-LEAD.

The chief ore of lead is galena, and it is found in this Province, principally in the Carboniferous limestones and in the pre-Cambrian formations. There are usually five metals closely related in the geofogic occurrence of their ores, and are also classed together in their metallurgical treatment.

These ores are gold, silver, copper, zinc and lead. Some The number of persons arrested for drunkenness ore contains all five of these metals; some contains the streets of Glasgow between midnight on Fri-three, some four of them, and a few ores contains day, December 28, 1917, and midnight on Friday, only one of them. Gold and silver often are associated as in lead and silver often are associated as a silver of the s uay, December 25, 1911, and midnight on Friday, only one of them. Gold and silver often are associ-January 4, 1918, was 477, a noteworthy reduction on ated, as is lead and zinc. Lead ores almost always the figures for the expression of the control of the figures of the expression of the control of the figures of the expression of the figures are ago, 905 two years ago, and 1,070 and silver. Sometimes all five metals above named

ore. These are termed mixed ores. Lead ores are those carrying more than 41/2 per cent. of lead, and zinc ores are those carrying more than 25 per cent.

Recently a large deposit of ore carrying all five metals has been discovered at Sterling in the County of Richmond. The property has been bonded to a wealthy New York company, and boring operations are now carried on to test the thickness of the veins, which De reported to be rich.

Lead to is found at Upper Stewiacke, Colchester punty. There has been some prospecting done County. There has been some prospecting there. The ore is found in the Carboniferous limestone and contains lead about 57 per cent and silver ber. about 25.5 owners to the ton. This deposit should be sampled, as far as exposed. now of commercial importance.

At Cheticamp, Inverness County, there is a mine from which a test of ten tons was taken in the summer of 1915.

Lead ore also occurs at Boisdale and East Bay, in Cape Breton County, near Musquodohoit, Halifax County, and at L'Abime Brook, Inverness County. The ore at the last mentioned place was discovered in 1896. It showed an analysis of 20 per cent. galena and 3 per cent. copper, and was reported to carry one ounce of silver for every unit of lead, with gold in places up to 14 dwt. a ton.

The lead industry has been much affected by the war in Europe. Larger quantities of "pig" lead have been shipped from the United States than have ever been shipped before, bringing that country a gain of 7,662,000 dollars in 1915 over any other year's sales.

There is no lead mined in Nova Scotia at present,

but indications look bright for a development of this indication in the net future.

The following is reference to the deposit at Sterling is from the latest—at the time of writing—summary Report of the Canadian Geological Survey

The first work is believed to have been performed on the Stirling zinc-copper-lead deposits about twelve years ago. This work was of only a prospecting nature, and included the sinking of a shallow shaft or pit, and the digging of a few trenches or The only mineral that was known to occur in these deposits, which was considered to be of economic importance, was copper, and there did not appear to be enough of this to pay for working. Nothing further was done in the way of development until recently. Since the war the demand for various metals has greatly increased and one of those most required is zinc. Accordingly, as the Stirling deposits contain important amounts of this metal, the property was leased from the government of Nova Scotia on August 2, 1916, by James P. Nolan who obtained licences to search for minerals over five blocks of 5 square miles each. From these licenced tracts he selected and took up two leases each convenience be designated as A, B, and C. No. A of one-half square mile, which include the right to trench is about 20 feet long, 6 feet deep, and 4 or 5 prospect, mine, etc. One of these leases covers zine feet wide; No. B trench is about 45 feet long, 2 to 4 and the other data and in which latter case the zinc feet deep, and 4 feet wide; and No. C trench is 108

are contained in commercial quantities in the same goes with the surface rights of the farmer who owns the land. An option on Nolan's leases was obtained by H. H. Sutherland of F. C. Sutherland and Company of Toronto, who also secured from the owner of the surface rights, an option on the zine for the area of the lease not covering this metal. In addi-tion, Mr. Sutherland obtained from the Nova Scotia government several permits to search for minerals in this vicinity.

> During the past summer (1916) some surface development, mainly in the form of trenching, was done on the deposits, which showed them to be of decided The writer was instructed economic importance. by the Director of the Geological Survey to examine the occurence, and accordingly a couple of days were spent in this district during the early part of Decem-The deposits were carefully examined and

> Since visiting this property, the writer is informed that it has been purchased by J. R. Ray and F. C. Sutherland and Company, both of Toronto, who have resold a 65 per cent. interest to Hayden and Stone of New York, and the American Zine Company, of Boston. The new organization operating the property is named the Stirling Mining and Smelting Company. Diamond drilling was com-menced and by the end of Janury (1917) was well under wey, a 3,000-foot contract having been let. If the deposits prove satisfactory, extensive operations are contemplated for the immediate future.

> The Stirling zine-copper-lead deposits are located in Richmond county, in the south-western corner of Cape Breton island, N.S., and the development work is all within a few hundred yards of Stirling post-

office which is part of the farm house of Mr. John MacLeod. Stirling post office is situated in a direct line between Loch Lomond and Framboise cove, and 7 miles from Loeh Lomond, and 51/2 miles from Francoise cove, measured in an air line. The leases on which the Stirling deposits occur also adjoin the eastern end of Five Island lake.

To reach Stirling, it is customary to go via the to reach suring, it is customary to go via the Cape Breton railway which runs from Point Tupper to St. Peters. From St. Peters there are good roads to Stirling, a distance of between 35 and 40 miles. It is also possible to go by boat to Framboise cove or Fourchu bay, and thence drive-to Stirling. Going in this way the best road at present runs from Fourchu bay, which is about 9 miles from Stirling, measured along the road.

Ore shipped from Stirling at the present time would have to go to tide water at Fourchu bay, but it is claimed that a shorter, more direct road could be constructed to Framboise cove.

The development work on this property is mainly in the form of trenching. One pit or shaft has been sunk to a depth of 14 feet, and another was sunk some years ago, but when visited had badly caved, and was full of water. Three main trenches have been dug across the ore deposits, which will here for

feet long. 5 to 7 feet deep, and about 4 feet wide, trench A, 10 feet of ore is exposed, and in trench B. These all run approximatly at right angles to the there is over 33 feet of ore material. The actual general strike of the deposits. Also a small trench distance between the ends of these trenches is over extends from A to C, a distance of 260 feet, crosses 100 feet, and the offset distance, measured at right and the offset distance of strike of strike of the supposed general diseases of strike of rock. Another trench about parallel to C, has been is exposed throughout this distance in the bottom

spluce, and numerous small streams traverse the general direction of strike, for a distance of over 300 spruce, and numerous small streams traverse the general direction of strike, for a distance of over our area, but only very imperfectly drain it. Thus owe test, and they have an aggregate exposed width in the timber, soil, glacial, and other superficial mach C of over 66 feet. The amount of ore material deposits, very little bedrock is exposed in this vicing the would thus seem to be decidedly important. Then visited, the Stirling deposits had been very then visited, the Stirling deposits had been very the stirling deposits had rock formation is exposed on either side of the ore slightly exposed, nowhere to a depth exceeding 7 these rocks have not been examined microscopically, th general field name of greenstones is here applied to them. Possibly types related to andesites, includ-

ing diorites, diabases, or basalts, may occur.

A shear zone having a general trend of apparently about north 65 degrees east (magnetic), traverses the greenstones, and it is within this zone that the ere deposits occur. Every transition may be noted from quite massive practically unaltered greenstones in places merely sheared and altered to a greenstone schist. In other places pyrite has also been introduced in varying amounts. In places also, the rocks in addition to being sheared have been but a great amount of research and investigation has recently been done along these lines, and no doubt the original rock material has entirely given place to quartz, a whitish dolomitic mineral, zinc blende, chalcopyrite, and pyrite. Nearly everywhere, the copper-lead ores in the near future. The finding and ores are decidedly laminated, the lamination planes development of these deposits should also greatly general shear zone. Even where solid ore now occurs, including mainly zinc blende and chalcopyrite, with some quartz, the lamination planes are still very decided. The deposits are thus evidently due, largely at least, to metasomatic replacement, and have been produced by uprising and circulating solu-tions, within the zone of shearing, which have more or less entirely replaced the original rock and have deposited along the planes of shearing the minerals now constituting the ore deposits. Sections were measured of the exposures in the bottoms of the three main trenches.

All the ore material exposed in the bottoms of the three main crosseut trenches was sampled, ten samples being taken, which are numbered consecutively from 20 to 29 inclusive. Nos. 20 and 21 were taken from trench A; Nos. 22, 23, and 24 from trench B; and Nos. 25 to 29 inclusive from trench C.

extends from A to C, a distance of 200 feet, crosses and feet, and the onset distance, measured at right C, and persists possibly 50 feet farther. This trench angles to the supposed general direction of strike of is 1 to 2 feet wide, and 3 to 4 feet deep. Another the deposits, is about 90 feet, throughout which is 1 to 2 feet wide, and 3 to 4 feet deep. Another the deposits, is about 90 feet, throughout which small trench crosses trench B, and extends thence width it is not known whether ore occurs or not, northward along the general strike of the deposit; Trench C is about 260 feet from A, measured along about 60 feet. These trenches are all down to bed- the general strike of the deposits, and ore material dug to the south of C, but did not reach bedrock, as of a narrow trench extending from A to C. In the superficial deposits are there quite deep.

In the vicinity of these zinc-copper deposits, the 135 feet still fighther to the south-east, measured all land surface is dominantly flat and wet, and has been an offset at right angles to the general strike of the intensely glaciated. Glacial and other superficial deposits, a shaft has been sunk 14 feet in the bottom deposits overlying the bedrock have a thickness in of which good ore was found. No work has yet places of as much as 15 feet, but along the three been done to determine the amount of ore in this place is also fairly heavily timbered, mainly with have been actually traced by trenching along the

deposits, it consists of massive, finely textured, dark feet. Thus no estimate of the ore in sight could be greenish to greyish green, igneous rocks having the made that would do justice to the property. From general appearance of andesites. Since, however, what was seen, however, all the evidence indicated what was seen, however, all the evidence indicated that the deposits are probably quite extensive, and sistent both longitudinally and vertically. grade of much of the ore material is also high. In one trench, for a width of 10 feet, the ore carries from 11 to 30 per cent. zinc, as well as significant amounts of lead, copper gold and silver. Also, in the main trench, there is 20 feet of ore containing 17 per cent. to over 27 per cent. zinc, as well as importstones, to ore composed almost exclusively of zine silver. In this trench, also, there is over 40 feet of ant amount of lead and copper, and some gold and ore material, which though of lower grade is still of consequence.

recently been done along these lines, and no doubt the owners of the Stirling deposits will be able to evolve a satisfactory method. In this event the deposits will become an important source of zincstimulate prospecting in Cape Breton, and it is hoped that, as a result, other important ore-bodies

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Synopsis of Coal Mines Regulations.

COAL mining rights of the Dominion, in Manitoba, Saskatchewan and Alberta, the Yukon Territory, the North-West Territories and in a portion of the province of British Columbia, may be leased, for a term of twenty-one years, renewal for a further term of 21 years, at an annual rental of \$\frac{3}{2}\$ and are. Not more than 2500 acres will be leased to one applicant.

Application for a lease must be made by the applicant in person to the Agent or Sub-Agent of the district in which the rights and led for are situated

In surveyed territory the land must be described by sections, or and sub-divisions of sections, and in usurveyed territory, the tract uplied for shall be staked out by the applicant himself.

Each application must be accompanied by a fee of \$5, which will be refunded if the rights applied for are not available, but not observe. A royalty shall be gaine on the merchantable output of the sine at the rate of five contact.

The region operating to the formula the Agent with sworn time a coquating for the full and the merchantable coal mines of pay the registry thereon. I the cast noting rights are not being erace, such returns should be furnished at least once a year. The lesses will incline the coal mining rights only, rescinded by 127 of 4.6 George V. assented to 12th June, 1914.

For full information appliestion should be made to the Secretary of a Department of the Interior, Ottaws, or to any Agent or Sub-Agent Dominion Lands.

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

6. B -Unauthorized publication of this advertisement will not be



DEPARTMENT O

Hon. Martin Burrell, Minister. Mines Branch.

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should be addressed to The Director, Mines Branch, Department of Mines, Ottawa.

R. G. McConnell, Deputy Minister. Geological Survey.

Recent Publications:

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> Manota 20. Gold fields of Nova Scotia, by Wyat Maloolm.

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