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New Series Vol. 8 No. 21

MAY 9th, 1906

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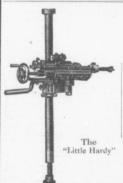
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TRANS excepted,) as follows :-	1410
No 144 Mixed for Hopewell	
No 144 Mixed for Hopewell No 79 Mixed for Trenton	
No 70 Mired for Hopewell-	
No 79 Mixed for Hopewell—  8 Mixed for Hopewell  18 Express for Halifax, and St. John  21 Mixed for Piccole	5 55
is alixed for Hopewell	6.30
18 Express for Halifay and Co. 1	6.55
18 Express for Halifax, and St. John	7.40
21 Mixed for Pictou Landing 62 Mixed for Pictou.	7.40
62 Mixed for Pictou Landing 65 Mixed for Pictou. 65 Mixed for Mulgrave	7.40
55 Mixed for Pictou. 55 Mixed for Mulgrave 19 Express for Sydney 28 Mixed for Pictou 56 Mixed for Tectou	7.45
28 Mixed for Pictou 56 Mixed for Truro	8.15
Se Mine-1 of Freedy	11.10
	11.15
90 Parameter for New Glasgow	11.50
	15.50
101 Mixed for Pictou	15.55
and Mixed for Picton Landing	16.00
101 Mixed for Pictou Landing 22 Mixed for Hopewell 65 Mixed for New Glasgow	16.50
65 Mixed for New Glasgow 17 Express for New Glasgow	
66 Express for Pictor	91 94
66 Express for Pictou  TRAINS ARRIVE AT STATE	91.40
THAINS ARRIVE AT STRUCK	21.47
TRAINS ARRIVE AT STELLARTON	

and tor Hopewell	16.50
00 Mixed for Wass Oleman	30.00
65 Mixed for Hopewell 65 Mixed for New Glasgow	18.10
65 Mixed for Hopewell 65 Mixed for New Glasgow 17 Express for New Glasgow 66 Express for Pictou	19,50
06 Express for Pictor	83 04
The second secon	21.35
66 Express for Pictou  TRAINS ARRIVE AT STELLARTON  79 Sixed form Honewell	21.49
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10 Sed form Hopewell	
or E	6.30
78 Mixed from Trenton 61 Express from Picton	5.55
61 Express from Pictou IS Express from New Glasgow —	N. org
91 Mixed to Hew Glasgow -	7.30
18 Express from New Glasgow	7.35
50 Mixed from Tenne	7.35
	7.30
100 Mixed from Pictou Landing. 28 Mixed from New Glasgow. 27 Mixed from Pictou	8.00
as alixed from New Glasson	9,20
	10,55
56 Mixed from Mulgrave 19 Express from Halifax and St John 139 Mixed from Pictou	10.55
	11.30
90 P	11.00
139 Mixed from Pictou 20 Express from Sydney 22 Mixed from Pictou Landing	15.40
22 Mixed from Pictou Landing	15.45
or maked from Hopewell	18:10
77 Mixed from Fictor Landing	18.45
06 Express from Novem	10.40
06 Express from New Glasgow	19,35
17 Express from St John and Halifay	21.25

All trains are run by Atlantic Standard time Twenty four Gelock is mid-night Moncton, N. B, JAN 9th. 1906

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over five square miles for eighteen months, cost \$30,00; leases for four renewable terms of twenty years each can be selected from them at a cost of \$50,00, and are subject to an annual rental of \$30,00

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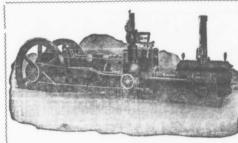
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Stellarton, N. S., MAY 9th, 1906 **New Series** Vol. 8, No. 21.

HEAT AS A MODE OF MOTION.

(FOR THE RECORD.)

The withdrawal of heat by a good conductor, is strikingly illustrated by the action of wire gauze upon flame. Holding a piece of such gauze, horizontally, I bring it down upon a ball gas flame. You might imagine that the flame would readily pass through the open meshes of the gauze, but not a flicker passes. The combustion is entirely confined to the space under the gauze. I extinguish the flame aid allow the unignited gas to stream from the burner. The wire gauze being placed above the butuer the gas freely passes through the meshes. On igniting the gas above, we have the flame, but it tween the burner and the gauze is a space of four inches filled with gas, in a condition eminently favourable to flame. And why? A certain temperature is necessary to cause the gas to burn; by placing the wire gauze ovthat light and quivering thing is rapidly taken up by a comparitively heavy metal, which is a good conductor of lowered that it is incompetent to propogate the combus-tion to the opposite side of the gauze. If this waste of motion could be avoided—if all the heat communicated to the gauze could be retained by the gauze it would evand by contact with cool air and the flame can heat it no further than the point at which the waste, in a given time, is equal to supply.

Sir H. Davey after having assured himself of the untion of the wire gauge applied it to the construction of a lanp, which would enable the minet to carry his light into an explosive atmosphere He surrounded a common oil lamp by a cylinder of wire gauze. So long as dinary brightness of an oil flame, but when the miner comes into an atmosphere containing fire-damp, the flame enlarges and becomes less luminous. This enlargement of flame ought to be taken as a warning to retire. Still though a continuous explosive mixture exgauze, to the flame within, ignition is not propogated across the gauze.

A defect in the gauze, the destruction of a wire at

that even with the safety lamp explosions still occur. Before permitting a man or boy to enter a mine, would it not be well to place these results by experiment before him? Mere advice will not enforce caution, but let the miner have the physical image of what he is to expect, clearly and vividly before his mind, and he will find it a restraining force, a monitory influence long after the effect of cautionary words have passed into ob-

#### SOME ERRING PROPHETS

It occasionally happens that the predictions and thedoes not propegate itself downwards to the burner. Be- ories of mathematicians and scientists are woefully upset and contradicted by actual results. Every one is familiar with the story of the editor who, in the days of ignition, but which does not ignite. This metallic gauze Stephenson's early experiments in railroading, predicted then, which allows the gas to pass freely, intercepts the that a speed of more than 12 miles an hour by rail would be impracticable if for no other reason than that the human system would not withstand travelling at a higher the flame or the flame over the gauze, the motion of er rate of speed. In the early days of steam navigation also Dr. Lardner delivered an address before a scientific body, in which he maintained that transatlantic steam heat. The intensity of the molecular motion is so much navigation was impracticable, mainly because of the inability to provide room aboard ship for the coal that would be necessary for the voyage. It is recalled by Cassier's Magazine that the meeting had scarcely adjourned before the news arrived that a ship had just comentually rise to the temperature of the flame. The gauze pleted a transatlantic trip under steam. In another case however, is continually wasting its heat by radiation, a number of individuals promulgated their belief that it would never be possible to successfully lay a cable accross the Atlantic, because, as they said, the density of the water below a certain depth would be so great that the cable would not sink to the bed of the ocean. gardless, however, of these predictions, the cable promptly sank to the bottom of the sea. At that time also, it may be noted, the greatest ocean depths in which cables were laid was only about 16,404 feet. Within the lamp is fed by pure air, the flame burns with the or- the past year a cable has been successfully laid by a German company iu the Pacific Ocean in the vicinity of the Luikin Islands at a depth of 26,246 feet. In still another instance the author of a well known text book on telegraphy, published in the sixties of the last century, expressed the opinion that while the idea of duplex teletends from the air outside through the meshes of the graphy, or the sending of two messages at once over one wire, was very beautiful in its way, it must be looked upon as little more than a feat of intellectual ganmastics, and quite useless from a practical point of view any point by oxida ion would cause an explosion. The Within less than a decade after the publication of this rapid motion of the lamp through the air, or the impact opinion not only was the duplex telegraphy in practical of a "blower" upon the lamp might also force the flame operation but quadrupled telegraphy, or the sending of through the gauze; in short, a certain amount of intelli- four messages at once over one wire, was also an accomgauce and caution is necessary in using the lamp. This plished fact. Notwithstanding that instances of this
intelligence, unhappity, is not always possessed, nor is kind could be multiplied, there are still to be found peothis caution aiways exercised, and the consequence is ple ready to write themselves down to posterity as erring

prophets, and so it will doubtless be to the end of the chapter. Fortunately however, for the sake of progress there are, on the other hand, always optimists enough to offset the discouraging views of the pessimists.

#### WIND POWER.

The chief objection to wind power practically is its uncertainty in amount and the variable speed of the mot-Under stress of necessity there is little doubt that the regulation difficulty would be, in great measure, evercome so as to give practically uniform speed over a pretty wide range of wind pressure. The average velocity of the wind is low, in most places between 5 and 10 miles an hour, corresponding, respectively, to wind pressures of from 2 to 8 ounces per square foot. These are too low to be conveniently utilized, on account of the large dimenisions demanded in the motors. portions of nearly every day, however, somewhat higher velocities are recorded, since the averages contain considerable periods of very light breezes occuring often within a few hours before and after sunrise and sunset, Hence, says Dr. Louis Bell in Cassier's Magazine, there are few days without periods of brisk breezes of from 15 to 20 miles an hour, giving wind pressures of from one to two pounds per square foot, On the other hand, winds exceeding thirty miles an hour (4.4 pounds per square foot) are sufficiently rare to be the subject of special record in the Weather Bureau. An effective wind motor should be able to work at good advantage up to, say, 5 pounds per square foot pressure at fairly uniform speed, and should be robust enough to stand up against winds of 50 or 60 miles an hour without going by the board. For certain uses, such as pumping, speed regulation is not necessary, but if wind power is to be included as a resource in the general power situation, even on a small scale, regulation is necessary, and it has thus far been carried out only to a very limited extent. It is probable that winds may be relied upon for the ordinary uses of agricultural communities, although they do not form, save in the region of the trades, anything like a reliable source of power. For the larger work of power production they cannot well be regarded as important, and in certain districts they are too unreliable even for casual use.

STEEL RAILWAY CARS.—An American scientific journal believes that steel cars will yet be compulsory on American railroads. Derailment and collision are the chief cause of death and injury to railway passengers, and exbut slide past each other or else are turned aside in collisions, and the passengers are not likely to be seriously injured. Composite cars with steel under frames and the all steel cars of the New York Subway, have prob- according to English standards. ably saved more lives and limbs than the company would care to admit.

The following is from a British paper:—

The coming winter promises to be the brightest ever experienced in the coal trade in Nova Scotia. The time is not far distant when Nova Scotia will utilise two million tons of coal per year. The coal pocket structure at St. John measures 200 ft. long, 36 ft. wide, and 56 feet which sound heavy on the earth as they stride along. high from headures fline. The pocket will have a capacity of 5000 tons, and by the utilization of up-to-date tie up their hair into chignons covered with handkerhours, at a cost of three-quarters of a cent per ton-

#### THE FRENCH MINERS HOME LIFE.

#### SELECTED.

Courrieres, the scene of the greatest colliery disaster ever recorded, and the most thriling escape of a handful of men, led by the brave Nemy, after 20 days entombment, forms a portion of one of the most interesting districts of France. This mining district, whose centre is at Lens, seems to be peopled by a race apart, a self-contained community, with habits and manners of their own, quite unlike the rest of their countrymen. From earliest childhood the people born in this region live in an atmosphere of coal dust, and work of some kind or other in the collieries seems their pre-destined There is among them a large sprinkling of Belgians, but these "foreigners" are regarded generally, if not with suspicion and dislike, with some indifference not untinged with contempt.

Over the whole district the air hangs heavy with floating particles of coal- Vast mountains of shale raise themselves like some huge system of fortifications on every side, and at night the district is aflame with fires leaping from innumerable furnaces. It is in this world of coal that the French miner lives from boyhood to old age, and in which he rears his children, making miners of them, too, from generation to generation.

With their wives and families they live in large village settlements called "corons" each consisting of a large number of brick cottages. Each tenement holds one family. When there is spare room the occupants of the cottages take in as lodgers the single men among the miners. These "corons" are the property of the mining companies, who charge their tenants a nominal rent of from six to eight francs a month, little more than will cover the cost of maintenance and repairs,

Early and late the colliers can be seen making their way to the pit shaft. They are of both sexes and of all ages-from the lad of twelve to the bowed man of sixty, the anaemic girl of fifteen to the old maid of any age. For the married women here do not work in the mines, but stay in the "corons" to prepare their husbands' meals punctually against the time of their return. Little gardens are attached to the tenements, in which the shrewder miners grow the vegetables for their daily use. For it is a very prosperous family which can afford meat more than twice a week.

Happily for them, the national gift of housewifely economy enables them to have healthy meals out of an income on which wonders must be worked if they are to live. The earnings of a whole family are pooled. A perience has proved that steel cars are safer than wood-da, (30c.), a girl of sixteen two francs, (40c.), and the adult male members of the family each from three to four frances a day, (60 to 80cts.) By hard work and intelligence a pitman may reach the rank of an overseer. when he earns for the first time a reasonable competence

See a gang leave the "coron" in the early morning. The men with their long, muscular arms crossed over their chests, roll along with a peculiar gait, something between a slouch and the sailor's roll, the exclusive possession of these people of the pit. Their shoulders are raised; their heads bent forward. jackets and trousers, under which are coarse wollen They wear canvas stockings, and their feet are encased in wooden clogs

machinery the average vessel will be emptied in ten chiefs of some stout coloured material. If those handkerchiefs were removed it would be seen that their hair.

#### Maritime Mining Record

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#### R. DRUMMOND, PUBLISHER.

STELLARTON, N. S.

MAY 9th. 1906

THE CAFE BRETON COAL MERGER.

The following from the Glace Bay Gazette is remarkable for the information it does not convey regarding what was talked about as the big coal merger. The Gazette takes credit for having said little as to the contemplated big merger, and it evidently desires to be in a position to say the same in reference to the other rumored mergers, for all we are told is that the prospects for the North Atlantic Coal Co. are promising.

are thankful for small mercies.

We are heartily at one with the Gazette in its cpinion that the government will be unwise to grant a subsidy to the Broughton people for a railway which will only serve that colliery. If another railway is to be built from Sydney to Louisburg then it must be built to serve all the caal seams lying between these points. That is it must not only tap Broughton, but the Blockfirst appears. The main line may be a compar-rangements of a rival company. atively small part of the undertaking. for an ordinary company to supply the necessary amount of rolling stock. It may be that each concern will have to own the cars etc. that carry its coal to a shipping point. These however are details to be worked out in the future. The new railway scheme must if it is to adequately serve all interests be a comprehensive one, and therefore we incline to the opinion that the governfor a subsidy, and thus enable the local government will grant no subsidy to a company for a mant to fully investigate the claims and probable railway to serve one coal district only:

include the Broughton property, was a proposal It is not, however, too late to do so, and we hope of Sir MontSgue Allan to amalgamate the Acadia that if the local government is not prepared to Company's mines, the Westville mines, the Gow- subsidize railways for the development of all the rie & Blockhouse and North Atlantic collieries at properties south of Sydney harbor, outside of the Morien, and several other mining areas in the middle and northern parts of this coal field. Sir public money will be built, not for the exclusive Montague asked for an option on the Morien pro- commerce of Broughton, but for the convenience perties, and got it. This option expired, and "the of all the undeveloped coal properties outside of Allans" solicited a renewal. But the Morien peo- the Dominion Coal Co., and kept under the conple were unable to renew the option, and the "Al-trol of the local government as a public highway lan Merger" is now minus the Morien properties, along which coal can be carried to tide water at Meanwhile, we understand that the North At- cost.

lantic collieries is satisfied with the situation, and there is a fair prospect that their plans will shortly mature.

The operation of the North Atlantic conferres
The RECORD is devoted to the Wining—particularly Coal Mining at Morien is obviously one of the contingencies of the future; and the connection of the coal, controlled and likely to be controlled by the company with Sydney and Louisburg, as well as with loading piers at Morien, is among the probabilities of the future. As a matter of fact, the North American collieries has apparently comtemplated a line of railway to Louisburg from the outset, for, if we are not mistaken, it attained the power to build this line, at its incorporation.

> This will doubtless mean that an application may be made to the local government for a subsidy for the North Atlantic Company at a later date. This should be remembered by the local government at this time, when an application for a subsidy for the proposed Broughton line is before them. The local government will not, we hope, invest provincial funds in a railway from Broughton to the exclusion of the eastern part of the Morien coal-field, which will need the railway to facilitate their development, and it goes without saying that the local government can hardly be expected to subsidize all these enterprises. We therefore think that if another railway is to be subsidized from the coal field to Sydney and Louisburg, it should be built under the direction of the local government, along a route as convenient as possible for the undeveloped coal properties, outside of the Dominion Coal Company.

The local government should take care that house and Gowrie, the Cowans' areas, the areas this road is kept as a route by which coal can railway should have as feeders all the known prevent anything that would expose the oper-seams outside of those held by the Dominion ators of private collieries, outside the Dominion Coal Co. This is a bigger proposition than at Coal Co., to the burdensome rates and traffic ar-The local gov-If the ernment will doubtless use due discretion in the road is not double tracked there will require to be matter of Broughton subsidy and, will, we feel very many long sidings, and if the several com- sure, do all in its power to encourage the develpanies holding areas actually develop them on opment of Broughton in the interest of the pro-the scale contemplated, it will be nigh impossible vince, but we hope it will remember that there vince, but we hope it will remember that there are other important local coal districts with as good claims upon the government of Nova Scotia as the Broughton mine; and that this should be borne in mind in considering the present applic-

It is unfortunate that Broughton people did not give more notice of their intention to apply ment to fully investigate the claims and probable necessities of the other undeveloped coal districts "The whole scheme, which, by the way, did not before it passed judgement upon their application. Dominion Coal Co., any new railway bult with

### = Rubs by Rambler.

I have been asked once or twice "Who is this Stephen that is writing about iron at Arisaig in rather an impertinent manner?" and I have been forced to acknowledge I did not know the man personally though I have heard of him as one who had invested a few dollars in areas down that way and was looking for millions in return. This Mr. Stephen, whoever he is, evidently does not know the Record's position on the iron ore question any better than he knows about the iron ore No doubt he is an easy going credulous fellow who takes big yarns in as gospel. The Record has never said there is no iron in great quantities in Nova Scotia, Arisaig included. What it has said is that the assertion has to be demonstrated, backed up by proofs. If at Arisaig there are mountains of ore of commercial value, then in Nova Scotia there is a market for thousands upon thousands of tons annually. the holders of the areas, this Stephen among been so active of late. the number, really have faith in their property, why do they not take some steps to develop it. why do they not take some steps to develop to Either of the Steel Companies will give them 25c. a ton more than their Newfoundland ore costs and besides give them all the bounty payable on people with millions upon millions of ore of comcommercial value, are speculators at best. Some with power to increase to \$2,000,000. paid on the bill was say \$200,00 for the smaller paid on the bill was say \$200,00 for the smaller ed in the coal trade. Were not the mine owners capital, but as the rule of the House is that the losing money, had not the miners in Cape Breton fee must be paid on the larger sum named in the to petition the government for aid. The low bill, \$300 or so more was demanded. The incorprises then Mr. Milner claims were the result of porators were content to have the capital placed at \$100,000, as they were afraid, presumably, to risk the \$300,00 extra required.

Is this in any way indicative of intense faith in their alleged belief that their are millions upon in their aneged benef that their are minious upon in whiter. There should be no comparison, there millions tons of ore of commercial value down can be no fair comparison with conditions existon a capital of \$100,000 dollars, a railway too that Milner would not like any reversion to the old orwill be all of forty miles long. And what is more der of things. Coal indeed was cheap, but not will be all of rorty lines long. And what is more der of things. Coal indeed was cheap, out not I have heard that the half of the fee incorporationly the coal trade but the general trade of the ing this railway company came out of the pocket country was in a deplorable condition. Infinitely of the introducer of the bill. In other words the better to have coal at the price it is now, trade men nothing the iron areas containing minions orisk, inners runy employed, about in demand, upon millions of tons thought they did their wages good, than revert to the conditions in the whole duty in demonstrating their faith in the seventies, when gaunt poverty stalked around the whole daily in demonstrating their later in the sevences, when gaunt poverty starked around the proposition when they scraped up a miserable coal mines, when the whole province was at a twenty five dollars a piece. In the Chronicle of standstill. Mr. Miner and those who think with

took away eighteen samples." I can imagine how broad a smile will cover Hugh's face when he reads of the fact of his carrying away 18 samples being adduced as an all sufficient endorsement of the immense value of the property, and of the immense quantity of ore it contains. If Mr. Fletcher will come to Whycocomagh I promise to weigh him down not with 18 but eighty samples of better ore than the general run of Arisaig. But can bono? The fact that he got eighty samples, would not convince me nor ought it to convince any other that there are millions upon millions of tons of ore at Whycocomagh. that there is ore there in big quantities, but even though Mr. Fletcher has seen samples, I am not convinced there is. Stephen casts reproach on an extract from what Mr. Weatherbe said re-Arisaig. Mr. Weatherbe may or may not be an ore expert, that is neither here nor there, the fact remains that what he says has the endorsement of the Mines Department as it appears in the official Mines Report.

Mr. Milner, of the Free Coal League has not I incline to the opinion that his ammunition is becoming exhausted. Indeed I may go further and say he must be in straits. In his reply to Mr. Moffatts interview with a Herald reporter he makes an assertion pig made from native ore. Can anything be fair-statement boldly that in 1878 the firm of Cunpeople with millions with soften these pards retailed cool at 1878. nards retailed coal at \$1,83 a ton. This statement is wholly incorrect. Mr. Milner since he wrote people with minous upon minous of the statement was informed of his inaccuracy, To declare a control of the state of the fact is that he had been carried away by overzeal. The head of the present firm of S. Cunard & Co. told Mr. Milner as he told the writer that the firm Mr. commercial value, are speculators at best. Some Milner as ne told the writer that the firm Mr. might say blackmailers at their worst. The Ste. Milner quotes as having advertised coal in 1878 phen crowd may say they are doing something at \$1.83 retail, never retailed a pound of coal. towards the development of their property. They The firm was agents for the G. M. A. and the applied at last session of the local legislature for price was likely per cargo, and not at Halifax but price was likely per cargo, and not at Halifax but at Sydney Mines. Further Mr. Milner's case is to build a road from Arisaig to Country at Sydney Mines. Further Mr. Minner's case is The capital in the bill was say \$100,000 damaged by bringing in the year 1878. Were for to increase to \$2,000,000. The fee not the seventies miserable years for all concerning the prince of the pr competition. In a remote sense only. compension. In a remote was stagmant, that the reason was that the trade was stagmant, that the supply very far exceeded the demand. The pits worked by fits and starts, and no coal was shipped in winter. There should be no comparison, there millions tons of ore of commercial value nown can be no tail comparison with conditions exist.

Arisaig way. What sort of railway can be built ing then and existing now. Surely, surely Mr. twenty five dollars a piece. In the Unronicle of standstill. Mr. Milner and those who think with 30 ult., Stephen waves his cap and shouts, "Here him, allege that the present high price of coal 30 ult., Stephen waves his cap and shouts, "Here him, allege that the present high price of coal is proof of the value of the ore at Arisaig: Hugh hinders expansion of trade, but he and they have Fletcher, of the Geological survey was there and refrained from giving explanation of the reason

for the present tremendous expansion of manuf- have been an injury to the medical men in either the Maritime Provinces.

error in saying the exportation of coal to Sweden was not a paying venture. The leader writer of the Gazette thinks the trade to Sweden was abandoned owing to the ruction between the Steel and Coal Cos. Now, my opinion is that Mr. Moffatt was nearer the heart of the matter than is the Gazette. Only incidentally did the Steel Co'y, play any part in the exploitation of coal shipments to Sweden. Had the Steel Co'y not been willing to take Swedish ore it is doubtful if Coal Coy. I think that is the long and short of

-:--:-At the late session of the local legislature the miners of the province got all they asked for, and in my opinion I am sorry to say they got more than should have been given. In the first place they asked that privileges they held should be curtailed, and they were curtailed accordingly. Had it rested with me I would have refused one request point blank, and a second request I would have granted with modifications. The first request was that the miners should be restricted in a selection of a checkweighman to a miner of three years experience. Had it been shown that such a request was in the interests of the miners, that it was necessary to fair play, in any way to better security, or that the late system in giving the miners a free hand led to abuse and injustice, then the request might have been reasonable. But it was not so shown. As the law was those who paid the checkweighman had a free choice. They had the liberty of selecting the fittest man be he a miner or a bankhead man. Had the law confined them in their selection then I could have understood the request, but it did'nt. How they came tacitly to acknowledge they did not or could not make the most fitting selection passes all understanding. It looks to me as if the request was made at the instance of some chagrined minority. A majority made a selection which was not pleasing to a minority, and hence came the request, and the enactment of what to every reasoning man must appear retrograde legislation. In the second place the request came from all the lodges, except one, whose membership consisted of employees of the Dominion Coal Co., that the law in reference to colliery doctors should be changed number required on the specification was too three years sufficient to buy 100 shares. small, the number now required is too large, cre- fourth year they have a hundred more dollars to ating a sort of monopoly. Let me take a colliery invest. They would like to invest it in the society employing 1200, 1400, and, or, 1600 men. It may their alma mater in a sense, for in it tirey were

acturies in Montreal, where coal costs the manuf- case that the names of 125 would subject them to acturers more than it does the manufacturers of loss, for no sufficient reason except that the 125 employees willed it so. On the other hand it is too bad that an incompetent, careless or dissipat-A C. B. contemporary thinks Mr. Moffatt is in ed doctor can retain his post, unless, in the case of a colliery employing 1400 men, and there are more than one such in the province, no fewer than 560 names be attached to the requisition, or, in the case of a colliery with 1600 employees, and I think there is one such, no fewer than 624 of the workmen sign the requisition. I hear that at one colliery on the mainland, where there are two colliery doctors, a majority of the men signed both requisitions, but that is a rather peculiar way of doing business, seeing each man pays only coal could have been profitably sent to Sweden, to one doctor. If such a system prevailed gener-The coal was not latterly sent on spec. It had a ally there would be utter confusion, and any law purchaser before being loaded. The reason that as to number of names on a requisition would be utter confusion, and any law purchaser before being loaded. The reason that as to number of names on a requisition would be no coal was sent last year was due to the fact a huge farce. Had the law been changed so that, that no arrangement could be made with the where 500 men were employed no specification Johnsons which would permit of a profit to the needed to be recognized unless 50% of the men adhibited their names; from 500 to 600 45 per cent, from 600 to 700 40 per cent, 700 to 900 35 per cent, 900 to 1200 30 per cent, and over 1200 25 per cent, then the move might have been in the in-terest of both doctors and men, but as it has been changed I'm afraid there will be a howl some day when the men find that they cannot procure a man to their likeing unless by way of a miracle. I have no feeling in this matter, the coll ery doctors in C. B. are all, so far as I know, above reproach, and I cannot imagine how some men would wish for a change. My opinion in short measure is that a jump has been made from one extreme to the other.

The rules of the Glace Bay Co-operative store would make a goodly sized volume They cover over thirteen columns in the Glace Bay Gazette. In my opinion they are needlessly cumbersome for a society which is just making a start and whose capital will not exceed, not at least for some time, thirty thousand dollars. Theordinary member will have little time or inclination to study the several rules. I see, in the objects and powers of the society-that the words "combinng the profits of trade with the securities and facilities of a bank-are retained though the words were struck out of the bill by a repealing act, after the bill had passed both houses To the promoters the society may appear to offer the security of a bank, but certainly it cannot to them or to the ordinary man afford the facilities of a bank. However that may be neither here nor There is one rule in reference to shares that I do not approve of at all. It may be right that a member must be holder of three shares, but there is not much sense in confining any memreference to colliery doctors should be changed bers holdings to 100 shares. That would mean so that the employers would not be bound to recognize the specification or petition for a colliery couragement of thrift, economy, pradence in doctor unless forty per cent of the employees at spending, or in short its aims are to encourage tached their names. Now while I admit that the law as it stood, might be capable of improvement society has started, and has induced many men to the change is too violent. If in the one case the become thrifty. The top accept that the the change is too violent. If in the one case the become thrifty. They have accumulated in say

taught lessons in saving, but the rules of the soo-pondents' remarks. Because there is a law athe root of co-operative societies. ment. Why are co-operative societies necessary? Because, we are told, middlemen are greedy, and them from working, or when hey had reached rob their customers. That may be one reason that age, they would be very careless as to whether the chief reason is that they afford working-her they saved in earlier years a single cent as men an opportunity for small investments which they can make fortnightly or monthly. Why then should the society which has created the taste throw the member off after he has saved \$500 Is it because that they do not want him to continue saving lest he become like unto other bloated capitalists. If he aim of the Co-operation societies is to help a man they should help him right inion, away off when it says that the miners do along and not stop helping him after he has acquired the comparitively small sum of \$500,00. Co-operative societies should supply facilities for men disposing of the loose change they have af- If so what will be the difference between aid from ter pay days. If they do not then they miss a a pension, and aid from a poor fund, except in

Had my attention not been called to it I would have missed the following jocular effusion which appeared in a Halifax Herald of late date. first comment is that the critic of the Records correspondent is not himself invulnerable. accuses the correspondent of indulging in whirl wind talk, while he himself flies into the most apparent kind of heroics. If the Records correspondent hinted that some mine workers are sinners, the Herald writer would insinuate that all of them are saints, Here is what the Herald says on the pension point :-

"The statement that old age pensions are a curse in disguise is simply reckless whirlwind talk and the assertion that the thought of a possible pension may be a deterrent to industry and thrift is nothing more nor less than an insinuation that the coal miners of Nova Scotia are maturally so unscrupulous and indolent that they would take advantage of a pension scheme to idle away a portion of their lives. The writer refuses to believe anything of the kind. From his knowledge of the mine workers of Nova Scotia he believes them far away and above any such tactics. He believes them to be thoroughly honest, industrious and patriotic. Men who appreciate any concessions made them; who are too honorable to take a mean advantage of them. They would, under a pension system strive just as hard by honest labor to lay up something against old age as they are striving now.

The Record's correspondent does not understand the miners' position regarding a pension system. It is not their wishes in the event of such a system being inaugurated that pensions be provided indiscriminately, but only for those who may go down to old age or become permanently injured owing to circumstances over which they have no control."

The Herald writer is not justified in putting the interpretation he does on the Record corres

lety preclude their so doing. The consequence is gainst stealing, fraud and so forth is not a suffici-that they are forced to look for some other instient reason for assuming that all men are inclintution in which they may invest, and that instit- ed to pilfer, and to say that a pension may be a ution may not be governed by the principles at possible deterrent to thrift and industry is not If co-opera- equal to saying that it will make all men thriftless the root of co-operative secreties. If co-operation cannot provide the opportunity to a work- and lazy. I myself believe, and can give reasons man for investing all his savings, then, in my op- for my belief that if very many workmen had inion failure must be stamped upon the move- the prospect held up to them of getting four or five dollars a week when old age incapacitated her they saved in earlier years a single cent as an emergency fund. The saying is there are tricks in all trades and if the Herald writer believes that colliery workers never at any time indulge in a little subterfuge and even at times shrink 'liability' then he is open to the mild reproach, perchance in odd cases commendation, of being unsophisticated. The Herald is, in my opnot wish any pension scheme to apply indiscriminately. Indeed. Does that mean that only the actually needy are to participate in the scheme? ter pay days. If they do not then they miss a a pension, and aid from a poor fund, except in grand opportunity of furthering the object they the amount of allowance. Is a pension scheme profess to have in view. ing parochial it is national or provincial. Let the miners work out a pension scneme of their own to which they will be primarily contributors. Only by such a plan may relief in old age be free from the charge of pauperism.

If little progress has been made in determining in some measure, whether Nova Scotia has the large bodies of iron ore with which she has been and is credited, the fault in great part may be laid at the doors of the parties holding the areas supposed to contain ore These we fear have not as a first wish the development of the ore industry. Their pockets have their first consideration. There is an important coal area, or rather I should say believed to be important coal area, in one of the C.B, counties, lying undeveloped, towards the working of which no progress has been made simply because the holders of the properties have demanded fanciful prices for them, They have been held for over thirty years at a price twenty times greater than that obtained for equally as important areas in ad acent districts. And so it may be, nay, so it is, with certain iron ore areas. I have it as a fact that the holders of certain areas in a county adjacent to Pic-tou County are asking the very modest sum of \$700,000 for a property, the real value of which is as yet undetermined. In short \$700,000 is asked for a property which is nothing better than perhaps a middling fair prospect. It is said of the holder of an iron ore area in Antigonish County who never spent fifty dollars in doing reasonable work on it that he bonded it to another speculatator for \$5,000, a condition being that he was to receive \$25,000 when or if the property was sold. The party to whom it was bonded demands the sum of \$100,000. And do not forget that this is asked for a mere prospect, for a property which has not been demonstrated to be worth for prac-tical purposes a hundred dollars. And these veritable leeches, these are the ones who howl against the Record and others who think it is time enough to boast about an ore property only after its value has been in a reasonable way determined. And these are the men too who belie their professions of belief in the vastness of the ore deposits by refusing to expend a dollar on them over the sum necessary to keep good their title to them. If I had an ore property on which I was assured there were millions of tons of iron ore of say 50% and low in sulphur and phosphorus I would ask for no additional bounty. I would either form a company to work and ship the ore, or I would sell to one of the Steel Coy's, who would, I am positive buy the property at a fair Three years or so ago a party nearly bit my head off because I shook it at his assertion that he had traced an ore vein across the county for ever so many miles. I told him that if he could trace it for 500 yards I would get him a purchaser for the property. I believe he sank a hole or two and then came to the conclusion that appearances were at times deceitful. holders of iron ore areas show their faith by doing a little systematic work, even if that involves the outlay of a dollar or two. That I fear however is the last thought of the shouters.

The following is the first section of a bill which

passed at the late session of the legislature:—
G. H. Duggan, Second Vice-President of the Dominion Coal Coy., Limited: F. W. Warren, Assistant to the 2nd, Vice-President; J. R. Blackett, Auditor; J. R. McIsaac, Traffic Manager; J. H. Nisbet, Despatcher; A. W. McLean, Yardmaster; C. J. McDonald, Conductor; Fred English, Wood Machinist; George Conway, Machinist; Godfrey Gibson, Machinist; and such other persons as are or shall become members of the Society hereby established, hereinafter called the "Society", shall be a body corporate under the name of the Dominion Coal Employees, Insur-ance and Provident Society, with its chief office at the General Offices of the Dominion Coal Co., Limited, Glace Bay, Cape Breton, Nova Scotia, for the purpose of establishing and maintaining a society for the benefit and relief of such employees of the Dominion Coal Company, Limited, as may from time to time become members, in the case of accident, illness or old age, and for the relief of their families in case of death of such members.

The Sullivan Machinery Coy's, temporary San Francisco address is 1010 Washington St., Oakland, Calif., where they expect to carry an increased stock of rock drills and their parts, and air compressors. They are in shape to give prompt attention to customers business through Mr. H. T. Waish, Pacific Coast Manager.

The name ▲tlantic Collieries Co. has been changed to Breton Collieries Co. It may when operations begin, undergo a further change, as a clause in the bill gives authority to change the name with consent of the Governor in Council.

#### Coal Shipments APRIL, 1906.

#### DOMINION COAL COMPANY, LTD.

-Output and Shipments for April 1906.-

		-Out	put-	-Shipme nts-
Dominion	No.	1 47	957)	
Dominion	No.	2 48	697	
Dominion	No.	3 30	802	
Dominion	No.	4 43	995	
Dominion	No.	5 55	472	203 349
Dominion	No.	6 6	499	
Dominica	No.	7 14	487	
Dominion	No.	8 15	872	
Dominion	No.	9 32	636	
		296	417	203 349
Shipm	ents	April	1905	139 267
Incr	ease		1906	64 082
Shipm	ents	4 mos.	1906	738 570
***		4 mos.	1905	549 805
Incr	ease	4 mos.	1906	188 765

#### NOVA SCOTIA STEEL & COAL CO.

#### -SYDNEY MINES.-

Shipments	Aprll	1906 1905	32 22	852 110
Increase		1906		
Shipments	4 mos	1906 1905	123 77	312 813
Increase	4 mos	1906	45	499

#### ACADIA COAL CO.

Shipments	April	1906 1905	18 174 13 578
Increase	**	1906	4 596
Shipments	4 mos	1906 1905	$65\ 088$
Increase	**	1906	10 899

#### CUMBERLAND RY. & COAL CO.

Shipments	April	1906 1905	$\frac{30}{37}$	980 891
Decrease	44	1906		911
Shipments	4 mos	1906 1905	156 118	$\frac{303}{238}$
Increase	66	1906	38	065

#### INTERCOLONIAL COAL CO.

Shipments	April	1906 1905	23 14	123 199
Increase	44	1906	8	924
Shipments	4 mos	1906 1905	52	037
T	4	1000	20	202

#### AROUND THE COLLIERIES.

Shipments have been fairly active the past ten days from Port Hastlings. The steamer Hero loaded a big Allan Shafts. The number is being daily added to.

A big cargo of rails was landed lately at Louisburg from Philadelphia. Many will ask is not this a case of bringing coals to Newcastle. Possibly the rails are of a kind not made at Sydney.

The Inverness Ry. & Coal Co. have purchased a small steamer of light draught for the costal trade. This is mistaken. is an innovation and should prove a success unless the vessel is a greedy coal consumer.

The Dominion Iron & Steel Co. have produced as high as 800 tons of steel rails in a day, beating the Sco record. If the Company would get a few big contracts no doubt large outputs would follow.

Work at the Allan Shafts is proceeding in a very satisfoctory manner. The contractors for the steel bank have their plant on the ground and preparations are under way for the erection of the structure.

A big change is being effected upon the surface at the Allan Shafts. There is much levelling and clearing away to make room for the necessary sidings. As soon as the bank head is up active and continuous shipments will be made.

In the Allan shafts levels and working places are being driven in the big seam, which is now running regthe charter boat to load her with coal taken from the this fact. Foord pit seam.

Shipments at the Drummond Colliery have been hindered somewhat by the non arrival of the company's charter boat which was expected on the 30th. April and had not arrived a week later. It is understood the company is looking for a second boat. This means that shipments to

The Dominion Coal Co. has a party out surveying a road from their main line to the Company's tance of four miles, making a clear path fully eight feet areas on the Lingan side. Does this mean an in width for the entire stretch. The immediate exploother change in the company's plans. As the sion occurred about fifty feet away from a barn and pits now working get deeper the cost of production increases. The opening of new pits on the and from this point the melted snow track followed its Lingan basin might, tend to bring down the cost. Lingan basin might tend to bring down the cost, almost straight course through the woodland.

There are two hundred men on the pay-roll at the

As the months roll on the increase in coal shipments continues to show a gratifying increase. Big things are expected for the present month as water shipments have begun on a satisfactory scale

Shipments from the various Cape Breton coal ports are now proceeding vigorously. There will be some record shipments this year or the Record

The little difficulty at Springhill was arranged on a compromise. The men asked 38 cents and yardage. They accepted 36 cts, straight. This rate should enable them to make a good wage,

The Reserve had its own little trouble a week ago, and the men quit work, but only for a day. The mens grievance was that preference in giving of places was shown to new comers. Mr. McVey would scarcely admit that.

The number of the Record's advertising patrons is And now the fame of C. B. has travelled so far athis issue augmented by two, the Keystone Driller Co.
and the Herzler and Henninger coal cutting machine field, that miners in Indiana are hearing of the fair wa- and drill works. Both concerns supply articles for ges and steady time to be made, and some from there which there must be an increasing demand in Nova have found work at the mines of the Dominion Coal Co. Scotia. Our mining men should certainly give preference to firms which advertise in the Record.

The Westellar Terra Cotta Co. are still making improvements to their property at Sylvester. boiler is being put in position this week, the old boiler not having sufficient power for the new requirements.

The Company turned out a kiln of bricks in March. Probably this is the first kiln ever turned out, burned, in the winter season in the maritime provinces. The company expects to have bricks ready for shipment in ular. A considerable quantity of coal is being hoisted July and as they are of a superior quality a ready marment of the mine that it is intended on the next trip of Parties requiring brick for summer delivery should note

> The following peculiar story is going the rounds of the papers. Is this a new form of sensational advertisement. One wonders if the gas which exploded is of a kind unknown in these parts, that will explode of itself without assistance from a blown out shot, a naked light, or the flash of a detonator:

Information was received yesterday of an explosion the St. Lawrence this year are to greatly exceed River, Victoria County, about three weeks ago. of gas in the Huuter's Mountain coal seam, near Middle explosion opened up a hole 20 by 10 feet and several feet deep. Quite a quantity of coal was thrown to the surface- The heat of the gas melted the snow for a disand it is possible the company may have this at of the residents in the vicinity it is said, are becoming afraid to remain on their farms.

#### (Continued from Page 12)

like that of the men, is discoloured through the constant use of soft soap, with which they rid themselves of the eternal coal-dust which seems to permeate their very being. Indeed, the signs of their occupation are deeply objection ble form the pension scheme involves a conwrit upon them in the almost invariable anaemia of the young women, and in the remarkable pallor of the men's and seamen are compelled to set aside small sums anskin. When a miner, after his daily bath, stands for a moment, stripped to the waist basking in the sun in his little garden, his body is seen to be veined and mottled with the faint blue design, which in spit of his best efforts, the coal has worked under the surface of the skin.

As these men roll along to their work with their coffee cans hung by a string over their shoulders, they all seem slightly hump-backed, for the solid part of the sion law for all French workmen who have outlived ly between their shoulders. This food consists of stout ject in England keep up the interest in it. slabs of bread with slices of meat, if they are fortunate, or cream cheese and onions if the weekly carouse has left them with a little to spare for luxuries. By and by, they will eat their meal, squatting like Japanese, as gest that the pensions would reduce the great sums

At their leisure their conversation is generally bounded by the horizon of the coal-field; they seldom talk of anything but their work. From generation to generation these miners have been accustomed to an iron dis- Perhaps in a term of years, by reducing the number of cipline and to yield unmurmuring obedience to those who rule their lives, so that the motives which have impelled them to the present strike must be strong indeed if they have been thus spurred to action,

Theirs are hard lives indeed, and it is not unnatural that their pleasures reflect the debasing conditions under which they live. In the apology for a tavern at the pit's mouth the miners will meet and drink themselves dull with the thick beer of the country or the sickly spirituous liqueurs and 'sirops.' Look round! ers sit are devoid of games—a lustreless life. No wonder that they seek relaxation at the cafes-chantants of the mining towns hard by.

Herded together in their barrack settlements domestic privacy becomes an impossibility, so that the primitive frankness of their habits creates a condition of things which moralists would find deplorable. Girls be health of their offspring, and, though marriage is al- John Telegraph. most invariably a sequel this is frequently postponed until the boy father and girl mother are of an age when as an adult worker, the man will be able to support his wife and children in the coron.

#### OLD AGE PENSION.

The Newfoundland Legislature decided in favor of old age pensions. The details of the scheme are to be worked out by a government commission, and next year the plan will be put in operation. The government estimates that the pensions in the aggregate will eat up about \$150,000 or \$200,000 a year, and will approximately equal the colony's present surplus over expenditur-Newfoundland's experiment will bear watching, and probably the manner in which it is seen to be working out a few years hence will have considerable influence in restraining or hastening movements of the same sort in the United States and Canada.

The subject commands much attention to-day alike in the United Kingdom and in the American republic. ed. Canada has not wholly ignored it, though here as full wages.

yet has not been seriously discussed as a federal proposal, and probably will not be for a long time to come. At the bottom of the agitation in Great Britain and the United States is the growing class of persons who become public charges when they grow old. In its least tribution by the beneficiary, as in France where miners nually as part provision for the rainy days of old age.

The Massachusetts bureau of statistics of labor has been examining the need, cost and effects of old age pensions, and Harper's Weekly notes that this is 'likely to reach to other states and to find many supporters in great centres of industry like New York, Chicago, Pittsburg and Philadelphia. The passage of an old age penday's meals is tucked away inside their jackets, square- their productive usefulness and the agitation of the sub-

Objection is made to the pension plan as inviting improvidence and placing a great burden upon the common treasury. The Massachusetts investigators sugwith fingers grimy and redolent of coal they devour now expended in support of public charities, but Harper's holds that "the experience of New Zealand does not confirm this assumption. It appears that the public disbursements for charity in that colony are as great as they were before the pension law became operative, those who seek public support in the institutions, this theory may be found to be correct."

"The objection to old age pensions, that they tend to make a workman thrittless," according to other reviews "is met by the precaution taken in Germany, where in order to secure the benefits of the legislation, a workman is obliged to contribute annually a certain sum to which an equivalent amount is added by the employer, the state contributing the remaining third. This provision of the German act is reproduced in the French walls are bare of pictures, the tables at which the min- bill; indeed, in France, compulsory provision for old age has been for some years made in the case of seamen and miners. It is a very common individual experience that the beginning of a saving habit-the demonstration that accumulation is practicable, even on a small scale often leads to happy results.

But there is nothing like experience near at hand, and Newfoundland is now getting ready to acquire come mothers at an age which cannot but affect the knowledge by which other countries may profit.—St.

#### NO CHARITY ALLOWED.

Commenting on the recent case where a Nelson employer was fined for giving work to a starving non unionist at full rates, the Rangitikei Advocate says :-- "It seems astounding that in this so-called free country a man whose charitable instincts impel him to give employment to a starving man at the full wages payable, should be fined £2 and costs because he has thereby broken a union award. The inference, of course, is that unionism prefers that men should starve rather than an award should be broken. The judge, of course, was quite right in declaring that charity is not an excuse for breech of law, but the decision should draw attention to the foolishness of the law. Such a position as that, it assames, is intolerant to humanity. Surely when a man is starving he can justly claim relief, and it he is an honest man he will prefer to work for his maintenance, The principle is roundly denounced and stoutly detend- especially if the one who comes to his relief offers him



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# Shaft Sinking Records ....

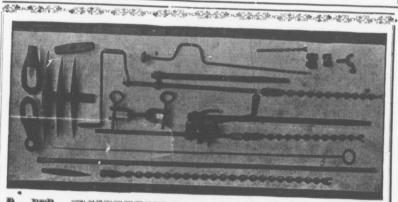


Allan Shaft No. 1, Acadia Company, was sunk 128 ft. and timbered up 100 feet in August, and sunk 132 ft. and timbered 137 ft. in November.

Our Air Compressor and Rock Drills were used.

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Chartz—Persons of eighteen years and over and joint stock compan-ies holding free miner's cutificates may obtain entry for a mining loca-tion. A free uniner's certificate is granted for one er more years, not exceeding five, upon payment in advance of 87,50 per annum for an in-dividual, and from 856 to 8100 per annum for a company, according to

dividual, and from \$50 to \$100 per annum for a company, according to capital.

A free miner, having discovered mineral in a place, may locate a claim 1500 x 1500 feet by marking out the same by two logal posts, bearing location notices, one at each end on the line of the lode or wein. The claim shall be recorded within theen days if located within then miles of a mining recorder's office, one additional day allowed for every additional ten miles or facilition. The fee for recording a claim is \$5 and ditional ten miles or mining. The claim shall be recorded within fittee of the mining recorder in lieu thereof. When \$500 has been expended or paid, the locator may, upon having a survey made, and upon complying with other requirements, purchase the land at \$1 an acre.

Permission may be granted by the Minister of the Interior to locate claims contribing iron and mica, also copper in the Yukom Territory.

The part of the same shall post the same contributing iron and mica, also copper in the Yukom Territory. Brown of the sales of the products of the location Placer Mining—Munt of the sales of the products of the location Placer Mining—March 1918 (and the X, W. L. excepting the Yukom Placer Mining—Hacer Mining—Hac Where steam power is used, claims 200 feet wide may be obtained.

obtained.

Dredging in the rivers of Manitoba and the N. W.T., excepting the Yukon Territory—A free miner may obtain only two of five leases of five miles each for a term of twenty years, renewable in the discretion of the Minister of the Interior.

five miles each for a term of twenty years, renewable in the discretion of the Minister of the Interior.

The lessee shall have a dredge in operation within one season from the date of the lease for each live miles, but where a person or company has obtained more than one lease one dredge for each mile of river leased. Royalty at the rate of two and a half per cent collected on the output after it exceeds \$10,000.

Dregling in the Yukon Territory—Six leases of five miles each may be granted to a free miner for a term of twenty years, also renewable. The lessee's right is confined to the submerged bed or hars in the river below low water mark, that boundary to be fixed by its position on the 1st. day of August in the year of the date of she lease. The lessee shall have one dredge in operation within two years from the date of the lease, and one dredge for each five miles within six years from date. Reutal Slu0p er mile for first year and \$10 per mile for each subsequent year. Royalty same as placer mining. Places Mining in the Yukon—Creek, gulch, river and full claims should not exceed 250 feet in length, measured on the base line or general direction of the creek or gulch, the width being from 1000 to 2000 feet. All other placer claims shall be 250 square feet.

Claims as marked by two legal posts, one at cach end, hearing notices. Entrys must be obtained within ten day, if the claim is within ten miles of mining Recorder's office. One extra day allowed for each additional ten miles or fraction. The person or company staking a salam must hold a free miles' excitificate.

additional ten miles or fraction. The person or company staking a claim must hold a free miner's certificate.

claim must noid a free miner's certificate.

The discoverer of a new mine is entitled to a claim of 1000 feet in length, and if the party consist of two, 1500 altogether, on the output of which no royalty shall be charged, the rest of the party ordinary claims only. Entry fee \$10, Royalty at the rate of two and one half per cent on the value of the gold shipped from the Yukou Territovy to be paid to the Computality.

half per cent on the value of the gold shipped from the Yukou Territovy to be paid to the Comptroller.

No free miner shall receive a grant of more than one mining claim
on each seperate river, creek or gulch, but the same miner may hold
any number of claims by purchase, and free minem way work their
claims in partnership by fling notice and paying fee of §2. A claim
river, by giving notice and paying a fee.

Work must be done on a claim each year to the value of at least \$200
A certificate that work has been done must be obtained each year,
if not the claim shall be deemed to be abandoned, and open to occupation and entry as a free miner.

tion and entry as a free miner.

The boundaries of a claim may be defined absolutely by having a urvey made and publishing notices in the Yukon Office of Gazette.

Petroleum.—All unappropriated Dominion Lands in Manitolas, the North West Territories, and within the Yuken Territory, are open to prospecting for petroleum and the minister may reserve for an individual or company having machinery on the land to be prospected an area of 1920 acres for such period as he may decide, the length of which shall not exceed three times the breath!. Should the prospector find oil in paying quantities and satisfactorily establish such discovery, an area not a supplied to the prospect of the pros

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Read	Down -	STATIONS.	Read Up					
No. 52   No. 54 a. m   p m					N N	No. 96 p m		
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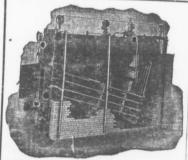
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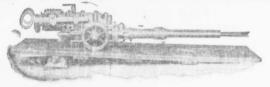
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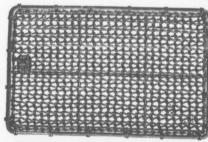
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CARBON HYDROGEN .												per.	cent.	77	51	per.	cent
OXYGEN NITROGEN													4.6		72		4
SULPHUR	 	 						٠,		1	16	4.4	66	1	27	6.6	6.6
SULPHUR	 ٠.	 	٠.						٠	0	56	**	66	3	07	4.6	6.6
													44	4	ro	2.6	6.6
WATER	 	 • •	٠.	٠.	*	٠.		 1		3	35	**	11	2	11	"	66
									* /	20	00						

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