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New Series Vol. 10 No. 14

January 22nd, 1908

STELLARTON, N. S

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to W. C. HUNTER, Manager, New Brunswick Coal and Railway, (operated for the province of New Brunswick by a Government Commission,) Norton, N. B.

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Percussion Core Drill Attachment

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It can be used in connection with any good "churn" drill, but erates best on the long-stroke KEVSTONE, thus making the eapest and quickest method of 'oring to be found.

In operation a hole is sunk to the coal with the ordinary Rock t. The Bit and Stem are then removed and the Coring Attach-ent put on in their place. It takes a 4 ft. core out of the Softment put on in their place. It takes a 4 ft. core out of the Softest as well as the Hardest part of the vein. Avoids all delay and expense of 'rods' water wash, diamonds, shot, and heavy operating mechanism

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Catalog No. 2 B. is a book on the subject. We make Water, Oil & Test Well Drillers for all depths and purposes.

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A well-known min-ONE MAN'S ing man recently fin-ished an Inspection of VIEW. the ANTHRACITE coal fields of Pennsylvania. When asked what impressed him most, he Spid "The acidity of the water, and the fact that of all the pumps I saw there two out of three were Jeanesville Pumps." An indication at least that we know how to handle the acid water problem. When you send us the lift and quantity of water and the available power, we will send you complete information about what we can do for you. Our bulletin No. 8, fresh from the printer, is full of up-to-date information. Write for now before you forge. Jeanesville Iron Works Co., . Hazleton, Pa.



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Iron, Copper, Lead, Etc.

Titles direct from the Crown-

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Licenses are issued for prospecting for Gold and Silver for a term of twelve months They Comprise areas 150 by 250 feet, and any number can be obtained, at a cost of 50 cents per area. Leases of any number of areas can be obtained, at a cost of \$2,00 per area, for a term of 40 years; subject to an annual rental of 50 cents per area.

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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

All titles, transfers, etc., are recorded free of charge by the Department. The royalty on coal is 10 cents per long ton, and on other ninerals in proportion
The Gold District covers over three thou-

sand square miles, and the deposits of coal iron ore, etc., are practically unlimited.

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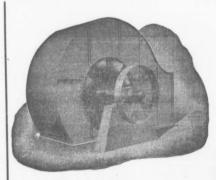
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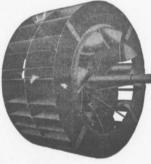
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Structural METAL WORK of all kinds BEAMS, CHANNELS, ANGLES, PLATES, ETC., IN STOCK

# WALKER BROTHERS (WIGAN,) LIMITED

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# Air Compressors, Ventilating Fans, Winding Engines.

Largest Air Compressors in Canada are of

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The following companies have installed WALKER BROTHERS Air Compressors, in capacity Ranging up to 6300 cubic feet of free air per minute, all of which are provided with WALKER PATENT, AIR VALVES.

DOMINION COAL COMPANY, Ltd. DOMINION IRON & STEEL CO., Ltd.

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SOLE CANADIAN REPRESENTATIVES PEACOCK BROTHERS CANADA LIFE B'L'G MONTREAL, P. Q.

The Maritime Coal Ry. & Power Coy., age repairs. They want ONE HUMBLED SHEET men are getting accustomed to the ERS AND LABORERS AND TWENTY CARPEN. the output is now about normal.

The men are taking more kindly to the satety lamps introduced in International mine in Dec. The Mainine Coal Ry. & Power Coy., At first there was a noticeable decrease in the having taken over on June 1st., the Joggins Mine and Ry. output, the men declaring they could not do their and are starting at once on opening a new slope and dower work properly with them, but with their use the and are starting at once on opening a new some and on-work properly with them, out with their use the lug sage repairs. They want ONE HUNDRED MIN-men are getting accustomed to the less light and



### 1908. **New Series** Vol. 10, No. 14. Stellarton, N. S., Jan. 22nd

### THE SPLIT AIR QUESTION.

'Practical' writes :- It was my intention not to carry on the argument about the split air question any furth- in it and all split questions. er, but after reading Mr. Baird's last I would like to say a little more on the subject. What he says about not allowing a draw does not effect me in the least; if he considers he is right let him go ahead. I am still of the opinion that he is wrong. The question worked out by the accepted formula gives a quantity of 69,000 cubic feet of air as the answer. This is equal to an increase cubic feet which was passing in the original single air-Mr. Baird's solution gives as an answer 29,000 cubic feet after the air was split into the three airways, or a decrease of 1000 cubic feet on the original quantity. ever, totally ignoring the whole proceedings.

I could never see how he got this quantity, but I have The action of the Labor department, in its make up would result in an increase and not a decrease in the quantity of air circulating. In his last article on the tions subject Mr. Baird asks me if the question stated that all the pressures had to be the same on the splits and says that he proved they were different. The question certainly did not mention pressures at all, but I have proved to my own satisfaction that the pressure cannot difmain intake air-course, and I have taken them in the lesser splits in the inner workings of the mine. Baird added all the three pressures together to get the Thus the Board was formed. totol pressure. Again, Mr. Baird admitted that his own that he proved, the pressures to be different by taking the incorrect quantity of 69,000 cubic ft, instead of the quantity of 29,000 cubic ft. which he claims to be cor- nothing so sweet in this business. rect. Why did he not prove it with the smaller quantity if it was the correct one? Now I am asked to work are entirely different and I must refer Mr. Baird back to ular, next ensued. the reply I made to his former question about what took place when air was split in a mine, I do not consider the guertion to be as simple as Mr. Baird says it is, and regard to the pressures. Since we cannot agree on this ations to stand or build on, and there was much evid-

point it would only be getting further away from an argument, to commence arguing on the last question Mr. Baird asks me because the very same point comes

### THE SPRINGHILL CONCILIATION BOARD.

### -LIME LIGHT REPORT.--

Springhill, it may be said, is on the tip-toe of expectof 30,000 cubic feet on the original quantity of 30,000 ation as to the possible outcome of the action of the late conciliation board.

The Board met and took the evidence of the men in The management took no part in it whatso-

seen practical tests enough to be sure that the change of the Board, would of itself justify the Company in taking this course, even were there no other considera-

How does the following strike business men as a ossible Conciliation Board? When apprised of the application for the third Board and its object, the Company refused to have anything to do with it, and declined, of course, to appoint an arbiter The Department fer unger the conditions named in the question. I have then appointed one; a good man, no better, but one taken watergauge readings in the main splits into differ- who, it is said, had refused to act on a previous Board. ent seams in a shaft; I have taken them in splits off a Doing his whole duty he could not object in this case.

The workmen's Agent and the Government's appoint-I have ee, met to choose a chairman. The Agent choose a foralso tried the same thing on steam lines, water lines and mer chairman. The Gov't, man objected to him, and compressed air lines, and I never knew the rule to fail in named a man, a Judge of the province, a man whose any single instance. Further, I never found the pressure ability, impartiality, honesty and integrity, are unon any one main aircourse to be divided, between the questioned. The Agent objected to him. The DEPARTsplits as it would appear to be in this case, since Mr. MENT then stepped in and APPOINTED the AGENTS CHOICE.

The Board met on the 7th, inst. Its importance observation showed the pressures on splits to be equal, could not be questioned, to judge by the solemn looks of and to make matters even worse, he proved, or claims some of the participants. But they were there for a purpose—as the French cook said as she prepared the Blanc Mange-with Eau D Cologne-only there was

The first effort of the witnesses was to make it appear that the mine officials were whited sepulchres, nothing out another split question and compare results. I fail less, A learned discussion on the specific gravity of Bitto see where the comparison comes in as the conditions uminous coal in general, and Spainghill coal in partic-

The Board ordered two of the lone representatives to procure the cubic contents of a mine ear. willingly and returned hurriedly; a miscalculation was I would not consider it a fair question for an examin- the result. Still the investigation went merrily on, and ation. Perhaps he may retort that I cannot work the the scale case ended with a few consolatory remarks from question, but that will make no material difference to the chairman. The Schedule question was then taken the question under dispute. I do not intend to take up up by the Board. The workmen had a schedule, one this subject again as I have no hope of getting at a sat- made out by themselves. The Company would not sign isfactory result so long as we stand at a dead-lock with it, therefore there was nothing for this, or future generence why this should not be so. ed and the Schedule case closed.

The Stone queation was then introduced. chairmon demurred but the Intelligences opposed to him ions. The impression made by the unopposed fairy stories was hard to get at by the expression on the faces Suppressed amusement was the most noticeable. However as politics was in the ascendant, and legal knowledge obscured, the poor down trodden workmen were assured that they would receive every consideration io the case.

It was rumored that most of the evidence was taken behind closed doors, but probably this is wrong.

The Board sympathizdoors were always open when one visited the P. W. A.
meeting in the Y. M. C. A. audience chamber, It was
all open above and even beyond—Board, This sitting were not taking any chances on demurrage. They want- of justice. Everybody could say anything they liked, ed to sail and they did. He was helpless, so permitted it. and as much as they liked. The young fellow that presided made himself solid with the boys during his stay amongst them. The Commissioner was in great form though prone to quote scripture appropos of many of the trite sayings of the witnesses. The Agent was diposed to be very critical, and drew out many facts that the extreme modesty of the C. W. M. and their manly desire not to injure any one-look you-would have kept to themselves. After a consultation with the principals as to the form the award should take, the Board adjourned—sine die.

### THE JEFFREY CENTRIFUGAL FAN.

The failure of existing methods of mine ventilation to prevent gas from accumulating, especially in remote workings, has been so recently and repeatedly emphasized, that no improvement in ventilating appliances, or methods should be disregarded by the operator of a mine in which possible danger exists.

Of special interest in this connection is the announcement of new centrifugal mine ian made by the Jeffrey Mir. Co., of Columbus, Ohio, for which they claim remarkably high efficiency, as indicated by the accompanying table. These results are obtained from a fam 10 feet in diameter by 5 feet wide, two illustrations of which are shown, and which has been installed for purposes of demonstration at the company's works in Columbus,

Fan Discharging into Free Air.					Outle	, CI		
Rev per Minute	In. Wtr.	Area of	Vel. of Air	Vol. No.	2,4.	Outlet Closed,		
50		Disc'ge	Feet per Min.	Cu. Ft. Per. Min.	Volumetric Efficiency.	In. Water	Manometric	
100	0.15	34 34	1530 3070	52 020	265 per cent	Gauge.	Efficiency.	
200	1.4 2.5 3.8	34 34	4700	104 380 159 800	266 " 271 "	0.22	67 per cent	
250 300	3.8 5.6	34 34	7750	213 520 263 500	272 · · · 268 · · ·	3.6	70 "	
The	above of		9390 Would indian	319 260	271 " "	5.3	72 "	

The above showing would indicate that the manufacturers' are fully justified in claiming that it possesses greater volumetric capacity than any other

The special features which give this fan large volumes at slow speeds and a large capacity against high gauges are the concave, curved, vanes which discharge the air in a true radial direction with no dragging effect on the wheel, and the conical secops which are features of no other fan, and which, by their special forms and positions, prevent the gushing of air

The fan is made entirely of steel mounted on a hammered steel shaft with accurately machined cast iron hubs, and is held rigid and true by adjustable stay rods which offer no obstruction to the free inlet of air. Another advantageous feature is the steel casing which extends to the ground line, eliminating the large amount of masonry usually required with fan



### AROUND THE COLLIERIES.

Dem. No. 1 colliery is in good shape for a big output this year if all goes well

Shipments are still actively in progress from Sydney Harbor. Up till the middle of January in the way of ice.

The Emery, at Reserve, or Dom. No. 10 did better during December than in previous months, by 100 tons per day. The prospects are good for a gradual increase until May next, when about 800 to 1000 tons per day should be raised.

Double shift after all may not be what it is eracked up to be. Dom. No. 5 or Reserve went on single shift on the 1st. of December, and yet during the month the output was 500 tons per day more than it was calculated it would be with one shift off

Mr. Jones of the Steel Co. is rather hard on the Privy Council. In a despatch to the Chronicle he is made to say: "The Nova Scotia judges have shown their usual good sense, (Is this slob-bering as defined by Judge Meagher) and it is to be hoped the court to which the appeal is taken will take the same common sense view." Is nt that a reflection on the general attitude of mi lords.

There have been no reports in the press recently from Antigonish Co. in reference to coal. over a million tons, thereby we think pa At Big Marsh there is plenty of material, but what in the first place in, we may say, the At Big Marsh there is plenty of material, out what in the first pince in, we may say, the fit is bould be laminated in even more directions world as a producer. In our estimate of the total than the coal of No. 6 was declared to be. An an-al shipments for '07 of the contain we placed the alysis of coal may determine the quantity of ash, increase over 1906 at 62,000. Completed figures but it needs more than a mere chemist to deters show that the increase was 89,000. This will have but it needs more than a mere chemist to deter- show that the increase was 89,000. mine the extent and number of the laminations, some bearing on the totals from the province and The first thing modern prospectors should do is to may place 1907 a few thousand tons ahead of 1906 endeavor to ascrrtain the quantity and the qual- instead of one or two thousand tons behind :ity of the laminations.

of late in reference to the number of Norwegian steamers engaged in the coal trade, Much of the discussion does not touch the heart of the subject. Schooners are not now so important a factor in the coal trade as in former years and without a class of large coal carrying steamers there would not have been anything like the progress made during the last score of years. Norwegian steamers get the preference because they have been specially designed and built for the coal and iron It is said Norwegian steamers are ore trades. chartered because they are the cheapest. Possibly, but there is another reason, British built col-liers cannot be chartered at the present for the that class of craft to its utmost.

"Centralization" may be a good thing on the whole, but it has its occasinal draw backs. For instance: On the 21st. Dec., the day of the lamentable explosion at Dom. No. 2,—the cause of which has not been ascertained though an official there was nothing to interfere with shipments, enquiry was held by Mr. Donkin-no fewer than six collieries were thrown idle for the want of electric current, as at Dom. No 2 is situated the central power station. There being no steam thore was no electricity.

> Mr, Lorne C. Webster has been elected representative of the shipping interest, on the Quebec Harbor Board, to fill the vacancy caused by the death of Mr. Feliz Carbray. There was a spirited contest Mr. Webster winning out by a majority of seven. The late Mr. Carbray was Quebec Ag-ent of the Nova Scotia Steel & Coal Co., and while Mr. Webster succeeds Mr. Carbray on the Harbor Board he also succeeds him as coal sales agent in Quebec for the N. S. S. & Coal Co. Mr. Carbray was long associated with coal, and so has been Mr. Webster.

The following are the outputs of the several collieries of the Dom Coal Co. for 07. It will be noticed that Dom. No. 5 or Reserve apparently gives Dom. No. 2 a hard push for first place, the difference between them being less that 3000 tons for the year. But then it should not be forgotten that the coal from Dom. No. 9 comes out by the way of Dom. No. 2 shafe and is handled on No. 2 bank head. The coal raised by way of No. 2 was over a million tons, thereby we think placing it

Side by side we give our estimate of what should be done this year, barring accidents etc.
There has been some discussion in the papers The Reserve and Caledonia, Nos. 2 to 6 estimates

	are for	si	ngle shift:		
			Output 07.	est. 0 1908	est. I or D
	Dom.	1	499 000	550 000	I 50 000
			639 000	750 000	I 110 000
			348 000	400 000	I 50 000
	Dom.	4	520 000	500 000	D 20 000
	Dom.	5	636 000	550 000	D 86 000
-		6	205 000	300 000	I 95 000
n		7	5 000	275 000	I 270 000
n		8	225 000	250 000	I 25 000
e			364 000	474 000	1 110 000
)-				200 000	1100000
	Dom.			10 000	I 10 000
	LACATER				on managland by

This estimate of course may not be reached but reason that the British coal export trade taxes the collieries are in a position to put out the quantity estimated, given the opportunity.

# AROUND THE COLLIERIES.

It is rather remarkable that the biggest outthe statuer remarkance that the biggest out. For measure, formerly manager of the Londonderry put from any one of the Dom. Coal Co's, mines Iron Works, who now fills an important position with

There are two ways of putting a thing. instance: some of the C. B. papers reported the triend, "Gladly. discovery of a 7 foot seam of coal in the Port discovery of a 7-105t seam of coal in the Port in last issue, under General Remarks' there was a Morien Basin, by the borers for the Steel Co. The playful reference to Mr. Higson and prospective outputs aforten basin, by the morers for the steel to. The mayor reterence to air, rigson and prospective outputs proper thing to have said would have been that from the slopes and the shafts. The allusion might possthe Gowrie seam in the basin back of Morien, they seams are fairly well defined.

as chairman of the openging conculation Board one to them back. Dad we known that are frigson had resigned whom their own oppointee, as arbiter, had objected, we from the club no allusion would have been made to curlwill not be surprised to hear some declare that the whole ing. proceedings were farcical. In so grave and important a matter as the quelling of strife between fitteen hundred men and their employers, the one thing, leaving all other considerations aside, for which regard should be had, by the government, the employers and the employed is the securing of a fair and fearless, honest and honorable decision.

The Sprinhhill collieries are working steadily and things generally are going smoothly much to the regret of one of our local papers and one or We read in a paper lately where an emissary from England had queered the making of rifles by the Ross Manufacturing Co. in such a way that the factory will probably shut down in the near future. Apropos of this, some have come the near ruture. Aproposor this, some have come to the conclusion that the town of Springhill has been hoo-dood by some Jonah in the last two in the situation. years, or an emissary from Amherst has been getting in his fine work on the solitary if infantile industry outside of our coal works, that was cir culating some money in our town. It has moved is able.

Though the Record's sympathies are wholly with coal, though our belief is that a fool contract can be annuled; we could have taken judgement can be annuled; we could have taken page against coal complacendy, had steel common gone against coal complacendy, had steel common gone up ten points, and made, thereby, glad the heart up ten points, and made, thereby, glad the heart up ten points, and made, thereby, glad the heart up ten points, and made, thereby, glad the heart up ten points, and made, thereby, glad the heart up ten points, and made, thereby, glad the heart up ten points, and made, thereby, glad the heart up ten points are the points and the heart up ten points. use in rejoicing over a verdict which has had no visible effect on steel stock prices? We have it on no less an authority than the financial editor of the Star that the "ticker always tells the tale." the tale that it told after the verdict was not one to make people crazy with joy. It was a common to make people crazy with joy. It was a common place tale indeed. On the other hand had the verdict been for coal that stock would have gone souring. Steel stock is just as ungrateful as the steel "officials."

put from any one of the Dom. Coal Co's, mines from works, who now his an important position with last year should have taken place so late in the the United States Steel Corporation, in writing to the coal of t last year should have taken place so late in the one online of steel corporation, in writing to the season as November.

In this month Dom No. 2 Record says—among other things:—alt is always a cleaner to me to said the Dome of the Dom pleasure to me to read the Record with its pertinent discussions and the news it gives of the old familiar friends For and places of past years. . . Remember me to my old

"the workers had struck the 7 it, seam of coal for many leave the impression on the mind of readers that Mr. which they were boring." If the borers discover Higson actually said he would make a present of curling the towere seam in the pasin back of Morien, they stones. Mr. Higson did not say so; the Recor zaid will put something to their credit. All the other it for him, and therein. Dossibly erred, as Mr. I igson If it is true, as stated, that the government named and if our remarks might have an upposite effect we take If it is true, as stated, that the government named and it our remarks might have an opposite effect we take as chairman of the Springhill Conciliation Board one to them back. Had we known that Mr. Higson had resigned

The Dom. Coal Co. have taken several objections to the application of Messrs Moffatt and Mc-Neil for an arbitration board in reference to the dispute now pending as to wages. The objections of course are technical. The company may not of course are tecumean. The company may not be adverse to a board, but it wants to be better jections is that the application does not state what parts of the company's schedule is objected to. For instance do the lodges object to the in-One of the obto. For instance of the slass men as well as to the crease of wages to the \$1.38 men as well as to the reduction in the pillars. In short the company wants to know what exactly is objected to. Two, at least, of the objections are sufficient to cause delay in the appointment of a Board. McKenzie King may visit Glace Bay to take

### THE TIME WILL COME.

When it will be a disgrace not to work when one

When everybody will know that selfishness always defeats itself.

When to get rich by making others poorer will be considered a disgrace.

When the golden rule will be regarded as the soundest business philosophy.

When the business man will find that his best interests will be the best interests of the man at the When all hatred, revenge, and jealousy will be regarded as boomerangs which inflict.

Air is a mechanical mixture of about 79 parts by volume of nitrogen and 21 parts by volume of oxy gen. In addition to these gases, air contains small amounts of carbon dioxide, ammonia, argon and other gases, and also varying amounts of water

### MARITIME MINING RECORD.

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JAN, 22

COAL—STEEL CASE.

The supreme court to which appeal was taken, by the Dominion Coal Co'y., from the decision of Judge Longley, has decided that the Coal Co'y. had by their contract agreed to supply the Steel company with coal suitable for metallurgical purposes. According to the headlines of the Chronicle and Herald the court unanimously sustained the decision of Judge Longley. That is even so, but reading between the lines it is plain that both the Chief Justice and his 'brother' Russel said in effect: "Judge Longley's decision was sound though his premises were shaky." Brother Russel's-having known him before the Chief Justice we suppose we may take the liberty-versatility is phenomenal. As a satirist he has no equal on the Canadian bench; and he does it so nicely and neatly too. Notice how slyly he pokes the trial Judge in the rib in his reference to the word 'communings.' Had he not told us, the most of us would still be quarreling over the coiner of the Judge Russell says that the learned trial Judge took the expression from a Scotch case. The people at the trial in Sydney thought he took it from the Counsel for Steel who he thought was the author, and now Judge Russell has to break in upon the illusion and tell us the expression 'communings' was coined in Scotland.

If we remember rightly Judge Longley found by 'implication' that coal fit for steel making purposes was to be supplied. Judges Townsend and Russell declare there is no necessity to imply an iota as the contract, on the face of it, plainly says what is meant, and then they proceed to show what an easy matter it is by intricate and elaborate reasonings. We do not wish to lay ourselves open to the charge of 'slobbering' so while saying the Chief Justice is an able jurist we will proceed boldly to offer a layman's criticism on one or two of his observations on clause 3—the storm

After citing clause 3 as follows:—"All coal furnished shall be freshly mined run of mine, reasonably free from stone and shale and shall be supplied from such seams then being worked by the
Coal company as the Steel company may designate. The Coal company may after the expiry of
four years from the date of this agreement supply
slack coal of the same specification as to quality
as above if suitable for use in steel making and
for blast furnace coke, and may also supply slack
coal for other purposes for which it can be used
without disadvantage by the Steel company. In

construing the above clause use of slack coal shall not be deemed to be a disadvantage merely because the use thereof necessitates changes in the grate bars of the Steel company. "Suitable" shall be construed to mean that the slack coal so supplied when properly washed by the Steel company shall not contain a percentum of impurities, to wit, ash and sulphur appreciably greater than the percentum of impurities in the same coal of run of mine grade when crushed and washed in the same manner. All coal supplied hereunder shall be washed by the Steel company, and should the steel company operate and establish a coal washing plant between the point of origin of such coal and the Steel company's blast furnaces, the Coal company shall at the actual cost thereof, allow such coal to be washed in transit."-the Judge proceeds to make the following comments

"Now if the Coal company were only obliged, as contended to supply the ordinary product of the corapany's mines, plus the right of the Steel company to designate the seams, it would naturally occur to one reading the contract to ask why the different services for which the coal was to be used were so specifically and minutely set out with checks and guards for the protection of the Coal company, in restricting the quantity which could be called for from time to time, and the materials with which it could be used. Why particularize the blast furnaces, the coking ovens the steel furnaces, etc. as the objects for which the coal was to be supplied? Why did the Coal company put into this specification that they were not in any one month to be required to furnish a quantity of coal exceeding the quantity required to furnish the coal or coke to operate blast furnaces of a capacity not exceeding that of the company's four elast furnaces and to operate the steel furnaces and mills with incidental plant, etc."

The learned Judge to our lay mind fails wholly to grasp why the different services for which the coal was to be used were so specifically and minutely set out. In clause 1 of the contract it is specified for what purposes the coal is to be supplied, viz, "blast furnaces, coke ovens, steel furnaces, rolling and other mills, gas furnaces, mines and quarries, steam vessels and smelting engines. Why should these several services be mentioned, the Judge asks. The answer is very simple, and is, so that the Steel company might not use coal, which it secured at a dollar twenty-eight, or at a price less than it cost to mine, for other purposes than those specified. The Coal company by this clause debarred the Steel company from demanding coal for a cement mill, if it went into that business, or for a chemical work, or a brick work or any other business, not necessary for the production of steel or iron. Had the uses for which the coal was to be put not specifically been named, what is to hinder the Steel company demanding a sufficient quantity to supply all of its workmen. Steel could be as little produced without labor, as without coke or gas. The Judge rather labor, as without coke or gas. The Judge innocently, to our way of thinking, asks: did the Coal company put into the specification that they were not in any one month to be required to furnish a quantity of coal exceeding the quantity required to furnish the coal or coke necessary to operate blast furnaces of a capacity not exceeding that of the company's four blast fur-

naces, and to operate the stesi furnaces and mills no sense in its asking that run of mine shall be maces, and to operate the stest furnaces and mills no sense in its asking that run of mine shall be, and incidental plant, etc."? The reason is ob- We take it that the latter, the explanatory part vious, we might say. Remember the Coal says of the slaves refers to shall remember the coal says. remote reference to quality. Continuing the ed. If the coal company had not stipulated for wasning of the coarput in the contract? If the of such coartmant was even reasonably free from Coal company had nothing to do with the quality stone and shale. The construing of clause 3 is as Coal company had nothing to do with the quality—stone and shale.—the construing of clause 3 is as of the coal beyond the requirements of supplying—much a matter of grammar as of law, therefore the coal freshly mined, reasonably free from stone a layman may not be called to order in giving his the cent treshly mined, reasonably tree from stone a myman may not be caused to order in giving his and shale after the seams then being worked, interpretation. Further if the phrase "ALL coal to be designated by the Steel company, why that supplied hereunder" does not apply only to slack provision carefully drawn and inserted in clause then it is indeed unintelligible. three that all coal supplied nercunder that reguires to be washed shall be washed by the Steel fact that coal had to be washed, indeed his decis-

and washing as necessary that everything possible on this point out for certain words and ter should be done to remove the impurities and make the agreement which seems to be decisive." contract; at least it did not matter to the Coal to quantity had nothing whatever to do with the company. This provision as to washing indicates quality but for the purpose of preventing the of the Steel company.

contecompany was so sometions about the washing net than purely steet making purposes, to pre-of the coal. Clause 3 is of peculiar construction, vent it supplying its workmen or bosses or offici-Coar company require of the Steel company the other citizens of Sydney. The No. I clause means washing of run of mine coal? I do not read that this, that if by the clause in the original contract washing of run of mine contr. I do not read that this, that it by the cause in the original contract view into clause 3. Taking the Chronicles retthe Coal company were bound to supply all the yiew into cause 5. Taking the Unronicles re- the Coal company were cound to supply an the print of the clause beginning at the end of the coal the Steel company needed, then not a pound print of the clause beginning at the end of the coartie steer company needed, then not a pound sixteenth line we read. "In constraing the above more than what was needed and for the purposes sixteenth line we read." the ninth line from the bottom we read "All coal is the washing of the coal. supplied hereunder. Under what? Not under benefit was it washed. As the washing applied to the clause, but under the explanatory division of slack coal, the Coal company were of coarse inthe clause, but under the explanatory division or slack con, the coar company were or course in-the clause, in other words all slack coal supplied terested in the washing of it so that being wash-

and incidental plant, etc. 7 The reason is on we take it that the inter, the explanatory part vious, we might say. Remember the Coal com- of the clause, refers to slack coal and the Coal comvious, we might say. Remember the Coal com- or the clause, refers to slack coal and the Coal pany was supplying the Steel company with coal company were wise in stipulating it should be at \$1.28, at a loss, too, remember. It was a sheer washed. Why? Because if not washed it could at 51,50; at 4, 1088, 100, remember. It was a sneer washed. Why Decause if not washed it could impossibility for the Coal company to live by the be rejected as not reasonably free from stone and impressionity for the Coal company to five by the objected as not reasonably free from stone and steel company alone. In order that it might supshale. In slack coal, sent from a mine, there ply the Steel company with its large monthly demust be more stone and shale, weight for weight plant it had of your properties. py the oteer company with its large monthly defining to more stone and shale, weight for weight, mand it had, of very necessity, to supply other than in run of mine, for the reason that the laterstoners at a price that yielded a profit. The ter is freed from all visible stone, while it would be reasoned by the profit of th chargest of these other customers could only be be an impossible task to pick the latter. The supplied in the summer months. It was there Coal company has appliances to send to market, supplied in the summer months. It was there. Coal company has appliances to send to market, fore necessary for the Coal company to restrict to the Steel company to be particular, run o mine the demands of the Steel company, otherwise the coal reasonably free from stone and shale, while they could not, then neither ultimately could ably free. Therefore it required of the Steel company would pany that the shack coal should be washed so that the steet company, for the Coal company would pany that the stack coal should be washed, so that be forced into bankruptcy. The less quantity it would be as free from stone and shale, as run the Coal company delivered to the Steet company, o mine coal would be, if crushed—made small—the banks of the batter for the and washed. For almost any support to the steet company, or the state of the st the coat company derivered to the Steel company, o mine coat would be, it crushed—made small—while there were other orders, the better for the and washed. For almost any purpose to day while there were other orders, the better for the and washed. For almost any purpose to-day Coal company, and therefore the restrictions as slack coal is not considered readily marketable, to quantity. The restrictions had not the most or reasonably free from impurities, nuless washing the state of the coal formula to the co Judge says :- "Again for whose benefit was the the washing of shek coal then it could not be said If the of such coal that it was even reasonably free from

Judge Townsend laid special emphasis on the Adopting the Coal company's con- ion rests wholly upon the belief that the washing company? Anopting the Conference of the Conferen struction of the contract, its obligation was full of coal made it apparent that the coal filled when it delivered run of mine, etc., and it suitable for steel making purposes, and it suitable for steel making purposes, Townsond asks, "What bind of good state of the coal making purposes," to no turner concern in the matter.

Lownsend asks "what kind or coal did the Steel steems obvious that this provision was put company want? Of course metallurgical steel the coatesat in plan of the Call source of the Call "It seems obvious that this provision was put company want?" Or course metanurgical steel in the contract in view of the Coal company's ob- making coal. Has that requirement been expressed in the contract. in the contract in view of the Cent company's on-making coal. Has that requirement been expressing the contract of the contract. SOME DOUBT might exist ngations to supply coal for steel making purposes—sed in the contract.—SUME DULET might exist and washing as necessary that everything possible—on this point but for certain words and terms—in the desired by the desi should be done to remove the impurities and make the agreement which seems to be decisive." Now it fit as possible, otherwise it was purely a quess what are these decisive words and terms? The tion for the Steel company, whether it should be restrictions as to the constitution. it it as possense, otherwise it was purely a quess what are these decisive words and terms? The tion for the Steel company, whether it should be restrictions as to the quantity to be supplied, and washed or not and would have no place in the the stigulation as to washing. The restriction as wasned or not and would have no place in the one supulation as to wasning. The restriction as contract; at least it did not matter to the Coal to quantity had acthing whatever to do with the company. This provision as to washing indicates quanty out for the purpose of preventing the that the Coal company at the time the contract Steel company from demanding a pound more, was made was requiring to be done all that could not of pure coal, but of coal at the ridiculously was made was requiring to be done all that could not or pure coal, but of coal at the ridiculously be done to make the coal fit for steel making and low price of \$1.28. The restriction as to quantity be done to make the coal nt for steel making and low price of \$1,25. The restriction as to quantity stipulating that it should be done at the expense was put in the contract as we have already in The learned Judge greatly wonders why the uong the controlled company by getting coal for otcolleompany was so solicitons about the washing her than purely steel making purposes, to preals with household coal at a third of the cost to other citizens of Sydney. The No. I clause means

The other point the Chief Justice emphasizes the cause, in other words an space coarsuppned terested in the washing of it so that being wash-bereunder shall be washed by the Steel company, ed it could not be rejected by the Steel company, There is some some in the Coal company, beyond, as being not reasonable free from these could be to nerender shall be washed by the Steel company, on it could not be rejected by the Steel company. There is some sense in the Coal company demand, as being not reasonably free from stone and shale. There is some sense in the Coal company aemand- as being not reasonably free from stone and shale, ing that the slack coal shall be washed; there is The washing of the coal could only, as pointed

out, apply to slack, because it would be farcical ard for slack. to wash run of mine for bunkers, mines and quarcoal had to be washed, as the Chief Justice seemingly assumes, how comes it that this case was decided on the quality of coal that never had been washed. If the coal had to be washed, by the turned, never was subjected to any such process. years in my opinion strongly supports the view I have adopted, first it has to be of the same specification as to quality as the run of mine." Well, what is, according to the contract, to be the qualwhat is, according to the state of the run of mine. It is to be 'freshly mined reasonably free from stone and shale.' That is dard, no higher nor lower, shall be the slack. The slack is not to contain a greater percentum of be, in crushed and washed run of mine, is to be the standard of washed slack.

let us. even if laying ourselves open to the charge of verbosity, follow it a little further. Suppose the Coal company had not spoken of supplying slack coal at all. In other words suppose clause 3 said "All coal furnishseams as the Steel company may designate". Here we of mine, if it does not contain an appreciable larger per is similar though a trifle more elaborate, "It means mi ne is fixed, and what that standard is, is the stand- means that the p cent of impurities in slack are not to

We have not space to follow the learned Chief ries, and steam raising purposes generally. If all Justice's reasoning further, nor can we, if we would, follow Judge Russell in his 'law'. views, when looked into, are not in consonance with those of his chief, neither, indeed, are the views of the other judges in harmony one with Steel company, in order that it might be made fit the other though they all arrive finally at the one how comes it that the coal refused, rejected, re-terminus. Judge Russell does not attach a great deal of importance to the washing business, If all coal had to be washed then no coal could be ferring to the slack, which was not to contain a If all coal had to condemned till after the washing. Judge Town-condemned till after the washing. Judge Town-send says: "It seems to me to be sufficient to be says this is perfectly intelligible, while yet he send says. It seems to me to be sufficient to be says this is perfectly intelligible, while yet he point out these provisions of the contract (the is not certain. He says: "I suppose' the danger washing, etc.) to show that in terms it provides guarded against here is the admixture with the for steel making coal." As we have pointed out slack of extraneous impurities which were NOT the Judges premises are susceptible of denial. IN THE COAL as it went over the picking belt." the Judges premises are susceptible of denial. IN THE COAL as it went over the picking belt."
Further Judge Townsend says: "That part of Than Judge Russell there is no more prominent clause 3 which provides for slack coal after four 'Multum in parvu' in Nova Scotia, and yet, like Homer he whiles nods, most frequently when he is contemplating coal bins. By rights, holding this view of his good qualities we ought to say "quite right Judge, the danger guarded against was June bugs and horse flies, which might make the top of the slack cars their last resting place the standard of the run of mine, and of that stan- and thereby contaminate the coal", but instead we will tell the judge that slack coal does'nt go over picking belts, or any such thing; it falls right ash and sulphur than the run of mine, but as the through the screens into the cars, and the impurpercentum of sulphur or ash is not named, the ities guarded against are not extraneous, but percentum of ash and sulphur, whatever it may consist of minute particles of stone and shale which came up with the coal from the pit, and which run through the screen bars on the boxes As we attach considerable importance to this point, being tipped, and which were impossible of removal except by process of washing. The Morning Chronicle referring to the case says the Supreme Courts interpretation of the contract may be right or it may be wrong. We have no halting ed shall be freshly mined run o mine, reasonably free views; with all our high respect for the ermine from stone and shale, and shall be supplied from such we believe the judges erred in their interpretation.

have the specification of the quality of the coal that There may be the excuse, for the faulty construct-was to be supplied for four years. Does it say that it ion of an editorial, that it was hastily written; there is to be free from ash and sulphur to any given extent; can be no such excuse for a ponderous legal document does it say it is to be free from these impurities so over which great thought and time, evidently, were as to make it fit for metallurgical purposes? Really it spent. Were we to say that the construction of clause does not. The specification as to quality is precise: 3 is so perfect that no part of it, possibly, could be mis-"All coal furnished shall be freshly mined run of mine understood, we would be displaying a rashness, or boldreasonably free from stone and shale." These are the ness, credible only to a county or supreme court judge. only provisos as to quality. 'But' says Judge Town- We make bold to say that not one in a hundred, unsend, 'the slack that is to be supplied is to familiar with the methods of preparation of coal for be suitable for steel making, and it would be absurd the general market, or for special buyers, can give an to suppose that the inferior coal was to be of a higher easy translation of the sentence in clause 3 beginning quality than the standard—run of mine. While the with the word 'suitable.' Let us quote the sentence explanatory clause contains the words 'if suitable for to make clear our point:—"Suitable" shall be construsteel making it goes on to define what these appar- ed to mean that the slack coal so supplied, when ently intelligible words really mean, a meaning en- properly washed by the Steel Co. shall not contain a tirely different from what they would assume without per centum of impurities, to wit: ash and sulphur apthe explanation. The slack coal to be supplied is not preciably greater than the per centum of impurities in after all to be fit for metallurgical purposes in a literal the same coal of run of mine grade when crushed and interpretation of the word 'free', but is to be consider- washed in the same manner." We ask the question, ed 'suitable' if it contains no more impurities than "In the same manner as what?" and crave for an ansfreshly mined, reasonably free from stone and shale, wer-Immediately half a score of hands go up and all run of mine. If crushed and washed run of mine con-reply, "In the same manner as slack" But there are tains 3 or 4 per cent of sulphur and 10 per cent ash, only laymen who reply, and we put the same question then slack coal shall be held suitable, as suitable as run to lawyers and several judges, and strange their reply cen tage of these impurties. The standard for run of they say-and then stop, and after a while proceed, 'It

be greater than the per centum of impurities in run of ute therefor continuous angry roarings. The public now be greater than the per centum of impurities in run of ute therefor continuous angry roarings. The public now mine when crushed and washed in the same manner, are paying more, perhaps, than they are aware of for that is in the same manner as slack is crushed and cheap coal to the Steel company; if the Coal company washed; that is as plain as a pike staff." But that is was to lose the patronage of the big railways, through and its internet meaning. They should stack cost be the semanness or stamporness of the steel company, what could be asked more to pay might lead them transcer the meaning would have been clearer if the the public would be asked more to words had run "than the per centum of impurities in to be less sympathetic toward steel. words may run be and the per content of impurious in the same coal of run of mine grade crushed, and when properly washed" or such a small thing as a comma after crushed might have put a different face on the sentence. We bring this up merely to show that the

The Dominion Coal Co has been by the Court in The Dominion Coal Co. has a supplying coal of Halifax adjudged guilty of, 1st, not supplying coal of manax anjungen gunny on use, not supplying coar in the necessary standard and 2nd, not supplying to the the necessary standard and one, not supplying to the Steel company a sufficient quantity of the good coal of the Phelan seam. Let it be admitted, for arguments sake, that the coal from No. 6 which is on the Pheian s am, does not come quite up to the average, of other coal, does not come quite up to the average, or other coan, and that the company could if they would have supplied good coal. The question then arises Why did the good company not supply the necessary quantity from pits company not supply the necessary quantity from pits other than Nos. 4 and 6. For the reason that at the very time the Steel company was making demand for increased quantity the Coal company was engaged in a desperate struggle to rush coal which it had contracted to deliver during the open heason to St. Lawrence points. The question may here be asked by friends of Steel: Why not let the St. Lawrence shipments 'slide'. only not set the St. Lawrence ship-fected by what the Toronto News terms "the on-the reason that interference with the St. Lawrence ship-fected by what the Toronto News terms "the on-the control of the ments would have involved a very heavy pecuniary loss, a loss which the Coal company could not stand, more particularly as the coal being supplied the Steel company was at a rumously row price. In the opinion of the officials of the Coal company the Steel company officials were doing their utmost to hamper instead of help Those who are familiar with the Coal company's side of the story are not inclined to the opinion that the Steel company was the least bit grateful. The Coal Co'y may or may not have been precipitate in seeking to throw aside the contract, if they were then it was the 'precipitation' of the Steel company that forced company snound not have exacted its pound of fiesh, ev- service; with only a rew domars intervening the en if the bargain admitted of that, for a reason referred Nova Scotia government makes no effort to operate the state of the same and stat en it the cargain admixed of that, for a reason referred wova scotta government makes no entors to oper-to in another column and which we wish here to seek to acte coal. Too bad, and so many glorious changes are another in the C. T. B. and the C. D. B. two most too. I not think of the vastness of the understanding emphasise. It the C. I. B. and the C. F. B., two most too. Just think of the vascuess of the discount of the Coal company, cannot get a coal areas. Why won't the government go in additional confidence of the Coal company. sufficient quantity of coal, delivered to them at the set times and seasons, the probability is they would go elsetimes and seasons, the probability is they would go ease, and anive coal operators of the province now coal where for their supplies. Why sell to these railways can be mined for a dollar a ton and sold for about the supplies. more coal than can readily and easily be supplied? For the reason that if the railways are forced to go to the U. S. for half their supplies, they may conclude to draw all from there. And the Dom, Coal Co. must sell very from there. And the Dom, Coal Co, must sell very or genuine desire for puone ownership and lease quantities to these concerns to lift them partly out of all for the ownership of working coal mines. 14, instead or sending SUALAND Lons to Montreal, the nair Somenow or other Dominion from and Steel of that only was sent, then in order to keep above wat-stock holders don't enthuse properly after a verse of the Coal company. of that only was sent, then in order to keep above wats stock noncers don't entitle property of the company must appropriate the markets of diet favorable to steel is given as the property of the company of the compa

why should slack coal be the selfishness or stubborness of the Steel company, what the public would be asked more to pay which lead than

schape is not of the kind of which it may be said, "He and long enough. It broadly hints, as public interests, inion that the Steel-Coal litigation has proceeded far are involved, that the local legislature at the approaching session may put its hand on the shoulder of each of the contestants and say 'cease'. Both parties have declared in the past their willingness to come to terms. It is in the arranging of these that the trouble lies. At the present time it is much easier for the Steel company to make an offer than for the Coal company. company believes it is in the right and may not be willing to admit that the judgement of two courts has settled the matter. Pride may not permit at this time of a ready settlement. It would indeed be pleasing to the province if a way out could be found.

# - Rubs by Rambler.

rushing wave of public ownorship" our own Premier Murray is not affected by it the least little In Manitoba and other provinces west the governments have yielded to the demands for public ownership of telephones, and at big cost cured the Bell Telephone rights. Down here in Nova Scotia while a voice here and there called for public ownership of telephones and even of railways, the biggest shout that went up was for public ownership of coal mines. The evils of the it was the precipitation of the Steel company that forced trayed and the pressings to come with public own-them to it. But why should the Steel company begrate- ership as vividly pictured, and still there sticks them to it. But why should the Steel company be grate- ership as vividity pictured, and still there sticks ful? Because they were getting coal at a price less than Premier Murray, immovable as if he had never coast at a price which involved too additional coast to heard. With ground difficulties in the same who the consumers, generally, of the province. The Steel Manitoba government has secured the telephone company should not have exacted its pound of flesh, everyice; with only a few dollars intervening the If the G. T. R. and the C. P. R., two most too. Just think of the vastness of the undeveloped a dollar and a quarter instead of thrice that sum. Perhaps Premier Murray has been convinced in some way that there is in Nova Scotia no general or genuine desire for public ownership and least

some other of the companies, or increase the price, to Judge Lodgley delivered his now famous decision some other of the companies, or increase the price, to Judge Lougley delivered his now ramons decision lower province consumers, to such an extent that these in favor of steel one might have expected to see the constant of that it extends of that it extends of that it extends of the constant of the co to such an extent value of that it actually flew down

two points or so. week twenty-four hours before the decision, steel sold as high as 16%, and on Tuesday afternoon a tively limited depths to which water would carry few hours after the decision of the Supreme Court It looks to me as if the was made known 153. was made known 193. It 100ks to me as it the ones who are not deeply pecuniarily interested in steel, the pressmen, and the ladies, are the ones who go into raptures and express joy over decisions favorable to steel. The steel victory-may cause joy to Mr. Plummer but it cannot be a source of great heart movings to the common, ordinary and moderate stock holder. If steel had jumped up ten points, and not simply jumped to its former scarcely elevated position, then those who have been holding on to their stock bought at seventy, might have had gladdened hearts with new hopes, and obeying scripture I might have earths structure as their existence would be rerejoiced out of pure sympathy, but what is there assuring to the ironmaster, haunted by constant to be glad at over an insignificant betterment predictions of an iron famine at no distant date. The judgement puts into the pockets of steel two million dollars—more or less, metaphorically,— if you will. Well that should mean about ten per cent. interest on the common stock. Ten per cent on steel selling as high as 25 would yield forty per cent interest making it by far the best interest paying stock on the market. How then does the price stick at so low a price as 17? It must be that the purchasing public is not quite sure that the bird is not still in the bush. It must be that the public believe that there is something unreal, elusive about that two million or more to be transferred from the till of the Coal Co'y, to the coffers of the Steel Co'y. Some of us have so much of the old Adam in us that, if we really thought the two millions would materialize, we would immediately sell all we possess and dip again in steel, though it nearly drowned not a few in the past.

BETTER SURROUNDINGS.

"In other industries it has been found that in NOTICE RE LEASING OF OLD CAR AND WORK SHOPS order to have good men it is necessary to raise gool men. So it will be in mining .. The great manufacturers, power and transportation companies are providing technical training for their young and ambitious employees, and in this way they are not only increasing the efficiency of the men they already have, but they are offering an inducement that draws the best resources from other sources Their example should have the attention of the mine operators. Practical training schools in the mines are possible and night-school training ought to be made available. Then ,too, a very small exrenditure in enriching the social life of the men would likely yield good returns. It is not what a man earns, but what he gets for it that counts. There is room for much improvement in the physical, social and educational environment of the men at the mines; and when a beginning is made on this improvement, there will be a change for the better in the character and efficiency of the miners."

FORMATION OF IRON ORE.

FORMATION OF IRON ORE.

Most iron ores have been formed by water containing oxygen and CO2 in solution, which had been described by the Department.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

On Monday forenoon of last percolated downward from the surface. Ores thus formed were, therefore, restricted to the comparadown these gases. On the theory, however, that these ores were primary segregations from deep-seated igenous rocks, there need be no limit to their depth. They would rather tend to increase in size downward, while maintaining, or even improving, in the richness of their metallic contents. For these bodies might be regarded as fragments of the metallic barysphere which had broken away from it and revolved around it like satellites floating in the rocky crust. Of this conception these ore bodies would be of great interest to the student of the

### Intercolonial Railway.

TENDER.

Scaled tenders addressed to the undersigned and marked on the outside "Tender for Renous Bridge" or "Tender for Pine Tree Bridge Masonry," as the case may be, will be re-viewl up to and including WEDNESDAY, FEBRUARY 5th, 1908.

Plans and specifications may be seen at the Office of the Station
Master at Indiantown, N. B., and New Glasgow, N. S., and at the
Chief Engineer's Office, Moncton, N. B. at which places forms of Tendata may be desired.

der may be obtained.

All the conditions of the specification must be complied with.

D. POTTINGER way Office Moneton N. B. Jan. 16th. '08.

DEPARTMENT OF RAILWAYS AND CANALS

### Intercolonial Railway

MONCTON, N. B.

SEALED TENDERS addressed to the Secretary of the Department of Railways and Canals, Ottawa, narked "Tender for lessing car and work shops," will W. Golden and Secretary of the Carlot and the Secretary of the Carlot and W. Serberger and work shops will be seen at the edite of the Secretary of the car and work shops will be seen at the office of the Secretary of the Department of Gallways and Canals, Ottawa, and at the office of the General Manager of the Intercolonial Railway, Monoton; the lesse to be granted to cover together with the general terms and conditions in such cases, the following:

1—Ferm 21 years rental named, with right of renewal for second term at such rental and upon such conditions as the Governor in Council may then determine.

term at such renfal and upon such conditions as the Governor in Coun-cul may then determine.

2—Occupation and use to be bona fide for an industry that will yield a reasonably steady traffic for the railway, the character and prospective output of which industry to be designated in tunder and the operation of which to be commenced within one year from date of Lesses apolytical generate.

the operation of which to be commenced within one year from once the Casese acquiring property.

3—That yearly operation shall be of such an extent as to continuously employ not less than 300 employees.

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### PROFIT SHARING.

The oldest and most typical profit sharing concerns are Leclaire & Co., house painters and decorators, in Paris. In this concern profit sharing was started in 1842 and has continued ever since. Leclaire wildrew in 1870 and turned the entire management over to the men. The concern now employs 1,400 men, and in all the ups and downs of France and of Paris it has remained unshaken. The Godin Co., at Guise, France, employs 1,700 men in its iron works. Since Godin's death in 1888, his capital has all been paid off and the concern is now owned and controlled entirely by the em-

There are in France and England a considerable number of well established profit sharing concerns and a large and growing number in the United

It may well be argued that it is a wiser disposition of the surplus profit to distribute it among those who have a part in making it, than to invest it for additional profit making or give it away in large sums to institutions. The individual employees need it for old age or for the family in case of death or in the purchase of a home.

Nearly all thoughtful captains of industry, in common with other citizens, view with anxiety, the growing disproportion of corporation and individual wealth and the number of wage earners who own no property and live from hand to mouth. If we should choose to look ahead another twenty years and count on such a growth of disproportion and such a growth of the feeling against it, as we have in the past twenty, we are not borrowing trouble when we look for breakers.

There is enough for all and robbing none, if reasonably distributed. Money makers are as fair minded as the members of any other class on the average. They are not hard hearted. Many of them ardently wish for a better distribution, the difficulty lies in adopting a plan different from the established one. The profit sharing plan is very simple. It interferes not at all with the ordinary methods of the business, takes away nothing that the profit maker needs, takes none of the spirit out of the game, and need not take any active capital

It is now regarded as an undue innovation. There should be a growing number of profit sharing concerns in this country.

### POWER IN MINES.

Time was, and it is not so very long ago, when at colleries, for instance, a considerable part of the output of coal was used for the purpose of raising steam to operate the various engines and other machinery of the mine. This percentage, as the Mining Magazine says, depended, of course, on the construction of the boilers and the other machinery of the mine. For English colleries, for example. this percentage was estimated as varying from

about 3 to 17 per cent. by various witnesses examined by the Royal British Commission appointed to ascertain the coal resources of Great Britain. Metalliferous mines were no exception to the rule, and their coal bills also amounted up to a goodly figure. At many mines the mechanical installations for the generation and application of steam were of antiquated pattern, no regard whatever having been paid to fuel and steam economy Apparently, it was considered that anything would do in the line of machinery if it was only cheap enough. This mistaken application of economy has had very disastrous effects upon the financial returns obtained from many a mine. In the imposing structures which serve as central power stations at large modern mines all this is changed. Large steam generators of the most improved type, fitted with all the modern appliances, bring the amount of fuel consumed down to a minimum. The most modern forms of engines, with all the auxiliary apparatus needed to make them as economical in steam consumption as possible, are installed. The steam turbine, which has within late years come prominently to the front as an efficient machine, economical in steam consumption and advantageous in a good many ways, has been tentatively applied in several instances, especially on the continent of Europe, and has given very good results. In other instances the experiment has been made to operate central mine power stations by waste gas from coke ovens, of which the modern types produce a certain surplus which is not used for heating the ovens themselves, and therefore formerly went to waste. There is no doubt that the future will see a development of these large gas engines corresponding to that which has been brought about by the application of blast-furnace gas to gas engines in iron and steel works, and has given such excellent results. It is quite certain that the gas engine in the iron and steel industry has come to slay, and it may also find an important place as a prime mover in the central station for mine work.

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HEAT UNITS.

The quantity of heat is measured by units on the amount of heat required to raise a given weight of water to a given temperature. There are two heat units in common use—the British thermal unit and the calorie. The British thermal unit (abbreviated B. t. u. or B. T. U.), is the amount of heat required to raise the temperature of 1 lb. of water 1 degree F. at its maximum density, which is at or near 38.1 degree F. The calorie, or French unit, is the

amount of heat required to raise the temperature of

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1 kilo (2.2046 lbs.) of water 1 degree C. (1.8 degree F.). One calorie is, therefore, equal to 3.968 B. t. u. If it is desired to convert calorific values of fuel expressed in calories to British thermal units, multiply the number of calories by 1.8 and not by 3.968. The reason for this is that the B. t. u. is based on heating 1 lb. of water and not 1 kilo or 2.2 lbs. of water, though 1 degree F. and not 1 degree C. The pound calorie is a unit sometimes used, and is the amount of heat required to raise the temperature of 1 lb. of water 1 degree C.

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### Synopsis of Canadian North-West. Homestead Regulations.

NY even numbered section of Dominion Lands in Manitoba, Saakatche-wan and Alberta, excepting s and ss, not reserved, may be bomestead-ed by any parts the solo head of a family, or malo over its years of age, to the Alphaanon for entry must be made in person by the applicant at a Domin-ion Lands Agongor or Sub-agency for the district in which the land is situate. Entry by proxy may, however, be made at an Agongy on certain conditions by it. falter, nother, son, daughter, brother or sister of an intending home

by the father, motilier, son, daughter, brother or sister of an intending nome scalar.

The scalar of the following plans:

(1) At least six months residence upon and cultivation of the land in each year during the term of three years.

(2) A homesteader may, if he so dealers, perform the required residence (3) A homesteader may, if he so dealers, perform the required residence (3) A monesteader may, the head of the work of the scalar of the scal

(5) A homesteader intending to pairora ms resument duries in accordance with the above while living with parents or narming land owned by him-self must notify the Agent for the district of such intention. Six months notice in writing must be given to the Commissioner of Dom-linion Lands at Ottawa, of intention to apply for Patent. W. W. CORY,

### SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS. Works -SYLVESTER

COAL. Coal lands may be purchased at \$10 per acre for soft coal and \$20 for antiractice. Not more than \$20 acres can be acquired by one individual or company. Royally at the rate of ten centape from 0.200 pounds shall be colected on the gross cripts.

\*\*Example of the property of the p

sales. Placor mining claims generally are 100 feet square; entry fee \$5 renew-Placer mining claims generally are 100 feet square; entry fee \$5 renewable yearly.

A free miner may obtain two leases to dredge for gold of five miles e ch for a term of twenty years, renewable at the discretion of the Millister of he Interior.

Interior.

The lesses shall have a dredge in operation within one season from the date of the lease for each five miles. Rental \$10 per annum for each sale of river leased. Royalty at the rate of \$1-2 per cent collected on the output after it exceeds \$40.0.

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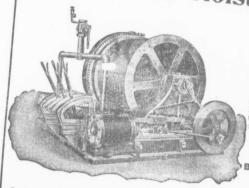
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