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New Series Vol. 9 No. 9

November 14th, 1906

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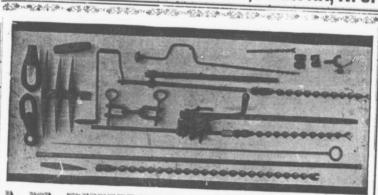
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io 144 Mixed for Hopewell 0 79 Mixed for Trenton 75 Mixed for Hopewell 15 Express for Halifax, and St. John 16 Express for Halifax, and St. John	6.55
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78 mixed for Halifax, and St. John	7.40
18 Express to Pictou Landing	7.45
21 Mixed for Dictor.	8,30
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21 Mixed for Pictou. 62 Mixed for Mulgrave 10 Express for Sydney 10 Express for Bydney	11.15
19 Express for Sydney	13 35
19 Express for Sydney 28 Mixed for Pictou	17.05
28 Mixed for Pictou 56 Mixed for Truro 8. Express for Sydney 10 Montreal 11 Montreal 12 Montreal 13 Mixed for Mailiax and Montreal 14 Montreal 15 Mixed for Halifax and Montreal 16 Mixed for Halifax and Montreal 17 Mixed for Mailiax and Montreal 18 Mixed for Pictou	16.45
	15.50
8. Express for Sydney 9. Express for Halifax and Montreal 140 Mixed for Pictou 140 Mixed for Pictou Landing	16.50
	18.19
	19,40
140 Mixed for Pictou Landing 22 Mixed for Hopewell 65 hixed for New Glasgow.	19.50
as heixed for New Glasgow, John	21.1
	21.1
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17 Express for New Glasgow 66 Express for Pictou	
66 Express for Pictou TRAINS ARRIVE AT STELLARTON	6.3
TRAINS ARRIVE AT	5.5
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79 Mixed form Hopeweil 78 Mixed from Trenton 61 Express from Pictou	7.3
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to Express from New Glasgow	8.
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be mixed from New Glasgow	10
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91 Mixed from Trupe 56 Mixed from Trupe 28 Mixed from New Glasgow 47 Mixed from Follow 66 Mixed from Molgrave 10 Express from Halfax and St John 10 Express from Halfax and St John	11
19 Express from Halifax and St John 19 Mixed from Puctor 85 Express from Halifax, St. John, Quebec	15
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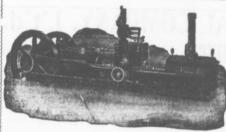
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MARITIME MINING RECORD

Vol. 8, No. 9. Stellarton, N. S., November 14th. 1906 New Series

CONTEMPLATED IMPROVEMENTS AT MAROU.

The Mabou Mines shut down on the first November for the season. The chief reason for suspending operations for a time was the unsound condition of the hoisting engine. The engine had been put to so severe strain the past season owing to the crookedness of the slope that it got out of order, and the management deemed it prudent to take no risk. A portion of the slope in its course assumes in form something the shape of a triangle. This came about through following the course of the coal, which was not regular, when the slope was being driven. On previous occasions a certain amount of straightening was done, and the time has arrived when it will require to be made quite straight if a big output is to come from the mine. The mine is so far developed now that the engine cannot haul all the coal, therefore changes must be effected, and the pre-sent is considered a suitable time to make needed sent is considered a suitable time to make needed improvements. The intention is to straighten the slope from the foot of the high angle coal down to about the first level. The two bad curves will thereby be cut out. An engine will likely be put in a considerable distance down the slope, which will gather the coal to that point from which it will be a suitable to the slope. which it will be drawn by an engine stationed on the surface. By having two pulls instead of one long one it is hoped to haul all the coal the pit will be able to produce for the next two or three years. At any rate the two engines will be good for more than double the number of rakes now possible to hoist in a given time. It is proposed to install another compressor so as to procure a sufficient supply of air for additional mining mac-A new fan also may be necessary in view of the developments underground. An additional boiler or two will be necessary in this event. The rolling stock is not up to requirements in the way of coal cars, so some more of these will be ordered. A fine new locomotive has already been procured which is strong enough for any work that may be required. The plan for future operations includes the erection of a number more of workmens houses. All development work under-ground possible during the winter will be pushed, so that when next year's shipping season opens

ies. There is no outlet by rail, and there was not sufficient depth of water in the harbor to permit of the employment of big cargo class of coal carriers. The latter difficulty is being overcome. The member for the county, Dr. McLennan, has been successful in procuring the services of a dredge the past two seasons whereby the channel has been deepened. The work in this line, and in the extension of the breakwater has enabled the company to make a creditable showing the past summer. By and bye at comparitively small expense Mabou should become one of the best and safest shipping ports on the coast. The company has been encouraged by the result of the short summers work, conducted under great difficulties.
When Mr. Deppe, the present Gen'l Manager took hold it was decided to abandon all the old work left him as a legacy. The expensive trestle across the creek had to be abandoned and a new shipping pier provided. The work done in a portion of the pit was abandoned so that the best coal could be sent to market. The railroad from the mine to the pier has been put in good condition; the boilers were rebuilt it may be said; a new smoke stack was set up; a lot of pit cars were constructed and a few additional miners houses erected. Indeed it may be said that the property is now in first rate condition to be operated on a larger scale. Development work in the mine is at this time sufficiently advanced to permit of a 250 ton per day output. For a new beginner the management has done exceedingly well. management did not escape the worries and the troubles incident to new coal mining operations. They are as a rule many and grevious. The coal shipments the past summer were approximately 16,000 tons. Instead of sixteen thousand the 16,000 tons. Instead of sixteen thousand the Record looks for sixty thousand for Mabou for next year. Those who have followed operations during the past year or so are of the opinion that Mabou with intelligent and progressive managements. ment can be made a property of which any Board of Directors may well feel proud.

THE SCOTIA PLANT AT TRENTON.

so that when next year's shipping season opens the mine will be in a position to send out 500 tons per day. The management would not set its heart do not season opens were it not convinced that the areas of the company contained cern. Indeed the writer fleard lit stated with some lots of coal of a quality to command sales, and further that there is a ready market for all that Scotia Steel & Coal Stock being so low was due to gan be produced. Mabou Mines up till lately were the coupling of the words coal and steel and that handicapped in the way of transportation facilit-

sible that those who measure probable future dividends by the increase in the shipments of coal ingenius spike making machines, capable each of are losing sight of what is really a more import-turning out five tons in the single shift or twenty ant factor in making dividends. There is profit tons for both in the 24 hours. The bars come red in coal, no doubt, but the coal end after all, at the present time plays second fiddle to the steel end. This conclusion has been come to, or rather this opinion has been confirmed, by a late visit to the

company's works at Trenton.

At the beginning of 1905 or about the time when and in the process receives its head. the open hearths, save one, were removed from Trenton to Sydney Mines, there were forbodings, and gloomy expressions of opinion to the effect that the works at Trenton would soon as a whole find their way thither. The Record on the contrary maintained that Trenton would continue to a box for shipment is examined, as only perfect flourish and employ in the future more men than in the past. And time has borne out the correctness of the statement. If there has been a remarkable increase in outputs of coal, and a satisfactory output of pigs and billets at Sydney Mines, the outputs of the finished products at Trenton have been phenomenal. If the big steel plant at Sydney has doubled its output of late, a similar thing, with emphasis may be said of Trenton. Instead of being a heap of scrap as some predicted, the works at Trenton are humming with activity, more, much more steel is being produced than ever and in greater variety of finished product, and consequently, a much larger amount is being paid in wages monthly. Improvements are continually being effected which tend to efficiency, and of a kind that are not charged up to capital, A run throug the plant a few days ago enables us to present a few facts as to the scope of operations.

The fish plate, or angle iron department is one of the strong features of the plant. For this the product of the mills alone. Much of the creclass of goods there is a big and constantly grow-dit for the greatly increased production, and for ing demand. On the night shift previous to our visit a record was made, when seventy tons of finished plates were turned out, and turned out ready for shipment, cut to proper size, with holes punched in proper place. Before the goods are shipped a sample plate has to be fitted on to a rail, so that the inspector for the purchasers may see that they answer fully the specification. The output from this department averages 130 tons in The plates are cut, punched, and the 24 hours. straightened direct from heating mill, and therefore do not require as used to be the case to be re-

heated.

A hot bed and table was recently put in which enables the company to more than double the out put of the mill-when bars of all kinds are want-The table has sufficient space to hold the output for ten hours. By the time the night shift begins the bars have sufficiently cooled to permit of their being handled and cut up, and this pro-

cess goes on.

The capacity of the bar mill is 120 tons in 24 The bars chiefly made are known as merchant bars, and railway car material. The sizes vary from $4 \times 1\frac{1}{2}$ down. The table takes the product of the largest of the two finishing mills, the combined product of the two being about 4,050 tons per month. The table has attachments for storing the bars in place, and being moveable conveys bars to the cutter.

The product of the forge is about 550 tons per Besides heavy forgings no fewer than

would be nearer a hundred than seventy. It is pos- 1300 axles, were turned out the latter half of Oct.

A late addition to the plant is a couple of most hot direct from the heating furnace which is situated a few feet in front of the machine where the feeder stands. The red hot bar is drawn into the machine, a piece cut of proper length, the cut off is held in place by some device until it is butted It is so ent that one end is made sharp for driving. spikes when cut are carried in a red stream on a conveyor to a height of say eight feet when they are dumped on the floor. The days work makes are dumped on the floor. The days work makes a little pyramid. Each spike before being put in spikes are sent to market. The spikes produced by these machines are much superior to the old class of railway spikes.

Many new devices are continually being introduced for the double purpose of reducing labor, and increasing output, and thereby decreasing cost And for the further purpose of supplying demand for goods not previously produced. plant as a whole is in excellent shape, doing more and better work than ever. At the present time there are some eight hundred men employed, and the amount paid out monthly in wages is \$40,000 This gives the high average of \$50,00 per man,

Evidently the watchword of the management is progress. progress. At the begining of 1005 2000 tons was considered good production for a month. Now, from practically the same plant the product has reached 4,000 tons, in other words has doubled within the past two years. We are referring to the great lessening of costs, making a dividend possible, is due to the intelligence, energy and progressiveness of Mr. John Fellows, the superintendent. He is a good general, evidenced by the fact that the best of harmony prevails between the workers and the management. As known, there was scarcity of labor in some branches of industry during the past summer, yet the Trenton works never suffered in this respect.

When one considers that this large steel plant-was evolved from a forge employing two or three men, he need not be surprised to find that the buildings are not so well situated for the work required of them or so compact as desirable, The machines are scattered in different buildings instead of being under one large roof. It is possible that in a year or two the works will be extensively remodelled, lines of railways laid through the works and more convenient sidings This may be rendered necessary by the rap idly growing business, and is made possible by the large and increasing earnings. Mr Fellows has spiendid lieutenants in Mr. Keay and Mr. Stairs.

As this visit was to the works and not to the general office, mention is not made of how much the company owes to Mr. Thos Cantley, the managing director, or to Mr. Harvey Graham, whose department is coal primarily, or to Arch. McColl, Sedgwick, Lithgow, Ritchie, or Green, all efficient members of the staff, and each a master in his particular department.

MARITIME MINING RECORD.

The MARITIME MINING RECORD is published the second and

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

Advertising rates, which are moderate, may be had on application. Subscription \$1.00 a year. Single Copies 5 cents.

R. DRUMMOND, PUBLISHER.

STELLARTON. N. S.

November 14 1906

- Rubs by Rambler.

Of the dozen or more letters which have appeared in the Halifax Herald, in the prize library competition, on the subjects: 'What are the most pressing needs of labor in Nova Scotia to-day' and How best to secure these', there are only three that take my fancy as being in the race. The majority deal in glittering generalities. One of the jority deal in glittering generalities. One of the letters that I like is written not by a laborer, and for this confession I may be deemed as one without the root of the matter in me. In these three tion in seven words instead of seven hundred. For instance my reply might be "To know that it is indeed." Indeed I could put it even in fewer words and make the reply "To know it is needful" 'Imph' some one may say 'that is no answer.' Well, from my own view point I may confess it is not, but from the standpoint of the sorrowing socialist it fills the bill. You see, its this way. The socialists,—there are a lot of new fledged ones in our midst, fellows who, so far, have made failemployers, labor is told, get all the cream, while company may designate it, poor ill used thing, only gets the skim milk,— swine's diet. Labor is told that it is tyrannized over; that it has no freedom of thought, or ton-gue or trade; and, would you believe it, does not a plight. Can you wonder, that our friends "Well," the coal coy, may retort, 'we are giving you coal of the red neck tie, are sore grieved and that for 'we dont want it from 6 pit, we want it from No. 5, or 1, greatest need of labor is to discover that it is says you are to designate the seam, but is whelly the greenest need. is being ground under the iron heel of capital,—I Phalen seam. We are giving you coal from the thing that is the way to say it,—how can there part of the seam that contains the largest proportion of No hope; and therefore the first and great day. needy. If labor cannot be brought to see that it No hope; and therefore the first and great duty shafts or pits, on the same seam, and ten chances to one of the socialist is to keep pegging away until he the coal in the one is not of the same quality as the has aroused somnolent labor to the belief that its other. Iudeed, the principal seams have a bad side surroundings all are servile, its condition cringing. and a good side. No, that is injudiciously expressed. I fancy it will take some hammering to drive it. Well they have a good side and a better side. The into the present day worker at the mines that he framers of the agreement evidently overlooked the fact is bereft of independence. Things, he knows, are that from the same seam may be produced good coal to-day not what they were a certain number of and better coal. It may still hold good, as hinted long

ears ago. In those days the Centurion said to his servant 'go', and the fellow was off like a flash, or 'come' and he was here with a bound, and without waiting to button his waistcoat. It is all the other way to-day. The servant,-I mean the employee-says to the Centurion,-or the 'wee cork', having the privilege of looking at the work done by fifty, or the superintendent with a like privilege where there are five hundred-'I goes' and he is off before you can say Jack Robeson, or 'I comes' and forthwith marches to his place, voiceless, the only recognition accorded the superintendent being the reputed free masons sign, plus an outward and sldeways motion of that unruly members, his tongue.

I have long held the opinion that lawyers are poor fists at drawing up intelligible or understandable contracts, more especially when the matter treated of refers to lands, including coal lands. By the way, that reminds me that a thought to be capable lawyer was the innocent means, -- though his ignorance, was reprehensible--of helping to have me mulcted to the tune of a few hundred dollars. If his knowledge of law did not extend beyond that of coal, then he must be debited with the loss of the suit. Long ago I was held responsible for the assertion that there had been loss of coal through the unskilful or negligent manner in which some pillars had been removed. What do you think the legal advisor said in his plea. He said the manager was guilty of having removed the pillars and of having failed to replace them. The manager who could remove a pillar of coal and afterwards restore it to its original place in betters some good advice is given labor, which it the mine, would fill all Alex. McNeil's requirements for will be the better to follow. Were I a competitor a modern mine manager, even if he had never attended for the Heralds prize I could answer the first quesa a technical school or acquainted himself with German methods. The contract between the Steel and Coal Co. was without doubt drawn up by one or more lawyers, Several no doubt had a finger in the pie. Well they made a pretty mess of it. I am not impugning their legal knowledge, while I assert their acquaintance with coal mines and mining was of the most rudimentary kind. The Sydney Record gives the following as clause 3 of the agreement :-

"All coal furnished shall be freshly mined, and of the grade known as 'run-o-mine', reasonably free from ures of life—are most solicitous to impress labor stone and shale, and shale supplied from such seems with the belief that it is very badly used. The then being worked by the coal company set be seen. The then being worked by the coal company, as the steel

> The word 'seams' plays the mischief with the inten-tion of the drafters of the clause acting for the steel coy. Presumably the steel cov. designated the Phalen seam as the one from which coal was to be supplied them.

ago, that a fountain cannot at the same time produce more of the common stock of that company was traded water sweet and bitter, but it is true that from the same in than of coal stock. The Herald says that the comseam may be produced bad and good coal-there I go pany has floated \$13,000,000 of common stock again—I should say, positive, comparative and superla- but it was all floated in the 'progressive policy' days.

and consequently incoherent article dealing with the trauble between the big Steel and big Coal Co. article is of the most alarming kind, a combination of red and yellow journalism. From beginning to end there is apparent trifling with truth. Let me notice a few of the sensational assertions. Says the Herald :— able ignorance. When the price of coal was increased "We feel that a crushing blow is being aimed at our in 1933 and the miners became aware of it, they very industries." This sentence means one thing only, and taat, the Dominion Coal Co., in cold blood, is trying to put the Steel company out of existence. The writer of su h incendiary talk can only be acquitted on the ground likewise have to revert to the wages of these days-and of insanity. Further says the Herald :- "Everybody deplores that the large minded and progressive policy inaugurated by Henry M. Whitney has been succeeded by measures that savors of the tricks of sharpers and And yet that same progressive policy, credited to Mr. Whitney, is in great part responsible for a condition of affairs which the Herald during the past eight- or unskillful. The Company has as an intelligent class een months, if not in its editorial columns, in its headlines, and through correspondents, has not ceased to declare as outrageous and villainous. Never a word has as chief, it may be said that they are as cautious and the Record uttered against Mr. Whitney as a man, capable as can be met with anywhere. but that does not prevent us now from questioning his judgement in all cases. If the Dominion Coal Co. char- this juncture-in the grievous quarrel of the companies. ges, as alleged, a higher price to local coal consumers than they think they ought to pay, to what is the extra I am merely trying to offset certain ill timed remarks cost chargeable? To the progressive policy of Mr. H. and mistatements, M, Whitney which the Herald now lauds. It was Mr. Whitney who bargained for a supply of coal to the Steel Coy, at a rate which leaves the Coal Co'y, a heavy loser, The directors of the Steel Company may say, the public may say, and a few who call themselves experts and should therefore know better, may say that the Coal Co. ought to be able to sell coal at \$,24, and make profit, The Record is prepared to say, and those best informed on the subject will stand by the statement, that the Coal Coy. can't supply the Steel Coy. at \$1,24 and make profit. And further, if with the highest price yet obtained the Coal Coy. are losing a hundred or two hundred thousand dollars this year on the Everett contract: Who is responsible? Again the answer must be, the one who the Herald lauds. The Herald ought to have known these things all along and yet it has been expressing wonder at the price of coal to local consumers. Herald further says:-

"The coal coy, is generally regarded at best, only an annex to stock jobbing business in that city (Montreal) and it cannot be said to be operated in the inter- given us a garbled quotation from that writer, ests of the people of Nova Scotia or even as a square commercial proposition, but to meet the vicissitudes of

the stock exchange.

operations were not influenced by stock jobbers, but there has been none of that since Mr. Ross took an act- turbine pump driven by a 70 h.p. induction motor. ive, rather than secondary, part in the management of affairs of the company. That the Dominion Coal Coy. plays no important part on the Montreal stock exchange is evident from the fact that of the 150,000 shares of common, less than 30,000 were traded in during the whole of last year. Allowing for turn overs, or speculators, the number of shares actually brought out may not have been 10,000. No one will venture to say that the Nova Scotia Steel and Coal Co. is conducted with an eye to the stock market, and yet fifty per cent

The Herald alleges that the I C. R. pays here \$3.35 The Herald of Saturday last contains a long, wild for \$8.75 at Montreal. The Herald in ingnorance of the facts. The I. C. R. does not pay \$3,25 for its coal. The The Herald displays utter ignorance of conditions at our mines when it says "The miner gets no more for mining coal when the price is \$3,00 or \$4,00 a ton than when it is \$1,24 per ton." This is malignant, inexcusesoon demanded and received an increase in rates for cutting. If the price of coal reverted to the price at which it sold in 1900, then the miners' wages would the miners would not like that. The Herald says the extra cost of coal since 1903 is due to stupid, blundering unskillful management. There have been, let it be admitted, mistakes in the past; let it be further admitted that experience has been costly, yet it cannot be said that the management at the present time is either blundering of superintendents of collieries as in any part of the world. Of the whole staff with Gen'l. Manager Duggan

It must not be understood I am taking any side at As I have not fathomed the intricacies of the situation,

After being 'led to exclaim with one great thinker:' "Honor and tame from no conditions rise Act well your part for there the honor lies,"

writer for the Herald prize library goes on to say !-"I have sat at the feet of reason, and I have listened to its flowery tongued orators. They have led me out into galaxies of space. (I could imagine you had taken a milky mixture.) They have shod my feet in the murmorings of the wind. (I should fancy your understandings were unstable.) They have opened the trepanions of the ear, (The beasts.) and when the time (what time) has ceased I have felt a lonesome feeling (poor soul) and I have thought how glorious," (lucky dog.)

Leaving out what is in parenthesis the above contains sufficient gas to blow up the Joggins mines. instead of having sat at the feet of reason he had sat for a few minutes at the feet of Pope he might not have

The Canadian Copper Company, of Copper Cliff has I will not say that in former years, the Company's bought from Allis-Chalmers-Bullock, Limited, Montzeal, a pumping plant consisting of an 8 inch single stage

> The Calumet Mining & Milling Co., Calumet, Que., has increased its plant by a 121/4 by 18 "Ingersoll" Compressor, driven by a 50 h. p. induction motor, both bought from Allis-Chalmers-Bullock, Limited, Montreal.

> A heap of brass coal smouldering at Caledonia has been removed, to prevent further conflagrations at C. B.

AROUND THE COLLIERIES.

The Reserve is booming again. McVey is not by any means a slow coach.

Another lift is being driven in Dom. No. 6 and the coal is looking fine.

During the coming winter it is proposed to draw some pillars above the water line in the Inverness mine.

f there is a scarcity of labor at some of the C. B. collieries the Hub is not so affected, as there is sufficient labor available of all kinds.

The coal in the deeps in the Hub is looking well, and though the mine is submarine there is no roof water found below the second level.

James Ross on his present visit to the collieries let the smaller matters and the smaller duffers severely alone. He had bigger things to attend to.

The tank system of handling coal is not what it was cracked up to be. Cages and boxes are as yet the only reliable way of bringing coal to the

The long wall at the Reserve—Emery,—is an assured success. The face can now be safely kept. Mr. Boch has some reason to be proud of his long

With the last pay sheets at Sydney Mines circulars were issued asking the men to work steadily during November in view of the early closing of navigation.

Little is heard these days of the Logans Glen iron ore deposits. Were the explorers a little too sanguine at the start. Has the vein thinned and not thickened.

The average output of the Hub or Dom. No. 7 is 600 tons per day. The highest days output this season was 850 tons. The pit has been on single shift since the 16th. July.

There is some talk of again opening the East slope at No. 6. The coal of No. 6 is going to the market in such good shape that the management

The Cape Breton papers now set down O'Dell as among the coal seam discoverers. O'Dell may take out an injunction restraining persons from of next year. calling his discovery an extension only of the Mullins seam.

A new pump house is being erected at the shore line for the Hub, the size $31 \times 15 \times 13$ feet. The walls will be of brick with steel girders. In this house there will likely be installed a new three throw Hawthorn-Davy pump, capacity 500 gallons. A new Centrifugal, 600 gallon pump will be installed below No. 1 level. Both of these pumps will be driven by electricity.

The Ottawa Citizen suggests that the members of the Geological staff are the most devoted and intelligent group of men in the civil service of Canada. The Record applauds.

November will witness the start in sinking for twomore lifts in the Inverness mine. This will mean an addition of some 1400 feet to the length of the slope. It is proposed to work the new lifts on the long-wall system which at the present time is in much favor.

Endless haulage is to be introduced in the main deeps at the Hub during the coming winter. preparation for its introduction the deeps are being widened, straightened and cleaned, and after this work is done, double tracked. This new haulage will be operated by electricity.

It is expected to get a thousand tons per day from the Hub next season. This will be a big output from a submarine mine, where more coal is left in pillars than taken out. When the cover is 300 feet the pillars require to be 75×30 , and larger as the cover increases,—up to a certain point of course.

The No. 1 North and South levels of the Hub are driven into 180 ft. cover line. There are now only 4 rooms working in the South level; there is probably 6 months work yet in the No. 1, North. The No. 2 North and South sections of the mine are being rapidly opened out. The bulk of next years output will be from these sections.

From the Sullivan Machinery Co., Chigago, &c. has been received their Plug Drill Bulletin. The drill of which the bulletin gives a description has been in service for the past ten months and is giving excellent satisfaction. These drills are well adapted for quarry work and for contract service, and can be run either by compressed air The pit has been on single or by steam.—Descriptive bulletin on application.

The No. 3 North and South levels have been broken off in the Hub. The distance of these levels from the shore line is 3.790 ft. The main deeps is 4011 feet from shore line and the cover is 380 market in such good shape that the management are encouraged to give the East slope another feet at face of deeps. The gain in cover with distance is not great but gradual. The man deeps trial. North and South levels. It is hoped to have these levels and the deeps driven to No. 4 levels by May

> Dom. No. 6 is begining to show up. The best days output was on the 24th. Oct. when 1035 tons were hoisted. On the day after Underground Manager McDonald met with a most severe accident when coming up the main deep. He did not notice the trip coming down and it struck him, breaking the left leg below the knee. He is doing as well as can be expected. James McCuish is acting in his place while Mr. R McDonald takes McCuish's place.

AROUND THE COLLIERIES.

Mr. D. M. Burchell, who has been since the formation of company superintendent of the ed. Dominion Coal Co's, stores, has severed his congood, and give every indication that as yet the Dominnection with the company.

The stoppage of work at Westville was due to a difference between warkingmen, the stoppage at the Sydney steel plant is due to a difference miners to work at Minto, N. B. between capitalists or companies. Honors are therefore easy.

close of the shipping season to Montreal. by delaying the arrival and despatch of steamers.

Dom. No. 6, with its numerous appendages is pronounced a success even if in actual working The everything does not come out as planned. empties do not run of themselves from the creeper to the brow of the slope. On the grade as laid out only the designers were willing to wager that they would. A donkey engine at the slope brow roulls the empties forward. The picking tables pulls the empties forward. are magnificent, but whether the tipple will be able for a two thousand per day output has yet life too seriously.
to be demonstrated. Mr. Mitchell says the tipple all the others comb is quick enough, and one dars'nt sass him.

es holding two tons each of coal should constitute It has been found that it a rake at Dom. No. 6. is more economical to run the rake with a dozen Experiments were made with sixteen on a trip but eleven on a rake is found to be the most suitable. Though the pit tubs have nomin-ally a capacity of two tons, few boxes coming out of the pit contain so small a quantity. The box you have since you were last down, how did you permits of 'pitching' and this is so will done in manage to get it." As this was held to be blarney some cases that the contents of a box are nearer no answer was returned. Mitchell followed the three than two tons.

The shutting down of the furnaces and other parts of the plant at Sydney is an unfortunate and regrettable occurrence, and this may be said no matter whether the blame lies with the Steel Co'y. or the Coal Co'y. It has been known for some time that the Steel Co'y. was not getting all its requirements filled by the Coal Co'y., and had been forced to procure 30,000 tons of coal from across the harbor. It is possible that the purchase of this coal from outside brought on the crisis. No statement that can be called definite has been made by either side, and it may be unwise at the present juncture for outsiders to interfere. stoppage is a serious matter for the shareholders of the Steel Co'y., as it will greatly diminish the profits for November even should the differences be soon adjusted. It has been stated that the loss to the Steel Co'y, is three thousand dollars a day. If that were all it would be little to make a wry mouth over.

Dom. No. 1 angle and south deeps are being extend-The coal and roof in the sub-marine districts are on Coal Coy, are only working the fringe of the great Phalen coal field.

A second advertisment appears in this issue for The offer of the N. B. government of ten acres of land applies to all the mines at Minto. The writer has never b on at Minto and cannot speak as to the charac-The middle of next week will likely see the ter of the land. It has one thing in its favor-The proximity to the town of Minto and close to line storms of last week upset calculations somewhat of railways. Minto being a new nining town is by delaying the arrival and despatch of steamers. not as yet equipped with the comforts of older towns, but arrangements are being made to meet the demands of modern living, such as school houses, water, etc. The building of the Transcontinental Ry. will, it is claimed, greatly benefit the mines, and lead to extensive developments affording good opportunities to mine workers.

Mr. Chas, Mitchell, Supt. of Dom. No. 6 is the prominent one among the superintendents of the Dominion Coal Co., who refuses to take colliery life too seriously. He has more dry jokes than all the others combined and sometimes they take a practical shape; for instance: A member of the office staff at Glace Bay, and a stranger, late-the office staff at Glace Bay, and a stranger, late-At one time it was proposed that twenty box-ly visited No. 6. They fell a talking in the office holding two tons each of coal should constitute and forgot the flight of time. The top coat of the stranger had been taken from him on his entrance and hung in the outer office. Looking at his watch and noting the time he made a dash for the outer office and seized a coat hanging on a peg. Putting it on he went to shake good-bye with Mitchell. The latter said "Thats a new coat pair to the waggon with seemingly a covetous eye on the coat. Reaching over the waggon wheel on the coat. he so stroked and fondled the coat that the wearer was on the point of making him a gift when the horse, going off, interrupted any such good Shortly after arriving at his destinaintentions tion the visitor went to his coat to get his pipe and pouch, neither could be found. Further investigation showed that the coat which Mitchell had been admiring was his own and not the visitors, and the conclusion came to that the scoundrel knew this all the time. The joke was not wholly with the Sup't. for he was induced to send for his own and return the other. The visitor would have been fully compensated had there been a single document in the pockets giving secret information about the collierp. He went carefully and religiously through every pocket, but got no information nor any scrap that might compromise the owner, or, say, wearer, as his present ownership may be the result of a joke perpetrated on some other countryman.

Around the Collieries.

The east travelling road in Caledonia Mine has been repaired and put in splendid condition.

The Old International moves along with all the speed of the younger collieries, but with much less noise,

The old wash-house at Dom. No. 3 has been abandoned for a bran new one, built at the mouth of the

' Phalen, Dom. No. 2, produced 2,800 tons on one day last week. The biggest output in the history of the

Dom. No. 1 produced 524,361 tons of coal this year that of Sept. 25th. of which 118,595 were extracted from pillars. fatalities occurred.

A water system has been put in at Dom. 6. The residents are supplied from Schooner Pond resorvoir. The water is filtered and can be used for all domestic

The levels of Dom. No. 6 are the only places now driven with hand picks. The longwall system is giving good results. The average cut of the machine is 200 ft. long by 5 feet deep.

The Emery shaft is all ready for the spears. The shaft is lined with pitch pine.

the ground, it will not be placed in position this winter. to prove beyond doubt the value of the property. The compressor in use can supply all the necessary

A new underground engine house is being made at When complete the haulage system will be augmented. The engine will be run by electricity transmitted from Dom. No. 2, conducted down a bore-This auxiliary engine was hole to No. 7 west level. needed owing to the great distance No. 3 coal is now being hauled.

The workmen of Reserve never showed the materia of which they are made to greater advantage than during the day of the fire and the days succeeding it. Every man worked with a will. Within a week a mountain of duff, dirt and debris was removed, two new bankheads laid and the slopes producing coal almost up to their daily average. Officials and men were one in getthe most sanguine expected.

her first to congratulate Mr. McCann on his promotion to so important a position, or first, the one we can do far better than that. The four towers responsible for having made so worthy a selection. of the Dom. Coal Co. at Windmill Point, Montreal in C. B. so well adapted for the special work for hour. which he has been chosen

The output of the Allan shafts is gradually crawling up. On one day last week 270 tons of an output was reached. Harry says he will be up to Higson in Jany., and Higson says-well he does'nt say anything but he looks as if he was ready to gamble.

The new management of No, 7—the Hub—made a new record on the 7th. inst, when 841 tons were Twelve of the thirty trips came from No. 1 level which is equal to the best previous performance of the double shift. On Wednesday the 8th, there was also another output exceeding

The Nova Scotia Steel & Coal Co'y, have sold fifty thousand tons of coal to the Dominion Iron & Steel Co. This is in addition to thirty thousand tons previously delivered. The effect of this sale will be to keep the collieries at Sydney Mines busy making shipments till the 1st. of January, with no coal to be banked in December as has happened in former years.

The shaft of the Mulloch Hill Copper Co'y, at Whycocomagh has been sunk thirty feet. bottom is being opened out, and will have three main parties interested are greatly elated over the lat-ways. Two for coal and one for men and material. est reports. The improvement in the quality of theore surpasses what was expected at that depth. The company are enthusiastic and intend sinking Although the foundation for the new compressor a series of small shafts along the vein, to a depth engine at Dom. No. 6 is laid, and the compressor is on of from 50 to 100 ft. By this method it is hoped

> Down Inverness way they believe in feast days, fast days, holy days, and holidays. Indeed, as at some of the C. B. collieries any old day will do for an excuse for cessation from labor. Inverness people having overwrought themselves on Hallow eve, made up for it by resting the day after, and made the pretext that they were idle in honor of All Saints Day. This is a new wrinkle, and whether the credit of the thought belongs to the management or the men is not certain.

"A record was made in unloading coal on the docks in Superior, when on Thursday, Friday and Saturday, Oct. 4 5, and 6, there were 12.340 tons of coal unloaded on the docks without working their daily average. Officials and men were one in get-ting the mine under way, and they did it sooner than containing 9,274 tons. This work was started at Mr. H. J. McCann has been appointed General 6. Steamer J. W. Moore, containing 3,006, was chell resigned. The Record is uncertain whether the congretation of the same date,"

Than Mr. McCann the Record knows of no one are each capable of lifting a thousand tons per A vessel carrying six or seven thousand tons is discharged in much less than ten hours.

Around the Collieries.

Coal Shipments October, 1906.

DOMINION COAL COMPANY, LTD.

-Output and Shipments for October 1906,-

			-Outp	nt.	China	ments-
Dominion	No.	1	52 5		-snipi	nents-
Dominion			52 2	111		
Dominion	No.	3	34 03	36		
Dominion	No.	4	56 26	39		
Dominion	No.	5	48 70	01	337	139
Dominion	No.	6	19 7	19		
Dominion	No.	7	14 50	88		
Dominion	No.	8	26 5	12		
Dominion	No.	9	38 68	55		
			350 0	09		
Shipme	ents	Oc	tober	1906	337	139
**			66	1905	323	884
Incre	ease		61	1906	13	255
Shipme	ents	10	mos.	1906	2 763	613
**			66	1905	2 447	041

INTERCOLONIAL COAL CO.

Increase " 1906...... 316 572

Shipments Octob	er 1906
Increase "	1906 5 713
Shipments 10 mo	s 1906236 464 1905160 234
Increase "	1905 76 234

ACADIA COAL CO.

Shipments	October	1906 27 1905 26	
Increase	44	1906	228
Shipments	10 mos	1906218 1905216	
Increase	14	1906 2	412

NOVA SCOTIA STEEL & COAL CO.

-SYDNEY MINES .-

Shipments "	October "	1906 62 1905 56	
Increase	**	1906 6	216
Shipments	10 mos 10 "	1906542 1905428	
Increase	10 "	1906114	258

CUMBERLAND RY. & COAL CO.

Shipments "		1906 1905		
Decrease	4.6	1906	9	683
Shipments "	10 mos	19063 19053		
Increase	4.6	1906	8	078

INVERNESS RAILWAY & COAL CO.

Shipments	October	1906		
**	**	1905	19	014
Increase	16	1906	7	835
Shipments	$10 \mathrm{mos}$	1906	167	522
**	10 "	1905	114	319
Increase	10 "	1906	53	203

The Nova Scotia Steel & Coal Co. had some record shipments last week. On one day the output was 3,180 and on two other days it went over three thousand tons. The total for the week was over 17,000 tons. The request of the management the men work steadily seems to meet with compliance.

Formerly there were but two classes of houses for workmen at the collieries. At some of the mines there are five different sizes. For instance at the Hub the old houses rent for \$6,00, while the new ones rent for \$5, \$6, \$7, and \$7,50, according to the accommodation. If a miner had been told twenty years ago that to-day he would be paying over \$7,00 for rent he would have laughed the informant to scorn. We are progressing and adding to our comforts if not to the length of our purses. Not a few of the workmen at the Hub are buying the houses they live in.

The shipments of the N. S. S. & Coal Co. for the ten months ending Oct., are some six thousand tons ahead of the twelve months shipments of last year.

The Port Hood mine is producing 250 tons daily. Development work is being driven with the view of a larger output next year. The workings to the deep have flattened off a little.

Dom. No. 1 co-operative in October did a business of \$4,900. Every colliery town ought to have a co-op. Strange that co-operative stores are not considered by a majority of Herald prize library writers as one of the pressing needs of labor. Possibly these are too practical, and do not afford opportunity for gas.

SAFETY FOR MINERS AFTER EXPLOSIONS.

The appalling explosion which has caused the death of twenty-four miners at the Wingace Colliery in Durham is a reminder of the dangers which attend the workers in mine. It is not generally realized how large a proportion of the men killed in a colliery explosion die from suffocation caused by the irrespirable gases or 'damps' which are found in mines. A large number of miners, we are reminded by the 'Hospital', lose their lives every year solely for the want of a temporary supply of Oxygen. Choke-damp is another name for blackdamp, though it is sometimes used to designate afterdamp, Black-damp or choke-damp differs from air in the fact that it contains a slightly greater per centage of carbonic acid and a slightly less per centage of oxygen the diminution of oxygen being more marked than duct of the mining industry. the increased carbonie acid. The danger from chokedamp arises from a deficiency of oxygen. There may be little or no warning of its action on the body before the limbs and senses are paralysed. The lamp which the miners carry fortunately announces the danger, and should prevent them from walking into an atmosphere of choke-damp. When the quantity of oxygen is diminished to about 3 per cent. the light goes out. A diminution of 11 per cent. of oxygen is required before life is endangered. The so-called 'white damp' may have fatal effects on a miner, and yet not extinguish his lamp. Mr. Dickinson before the 1879 Commission described after-damp as "having a pungent gaseous taste and an irritating action on the eyes, producing a feeling of malaise and torpor, which is a warning of eminent danger. Those who get far into it lose the power over their leg.s, fall down, and are suffocated through lack of oxygen while in this helpless condition." This appears to have been the case with the miners killed in the Wingate explosion.

Death causes the appearance of suffocation and appears as follows :- When the carbonic acid present in These indications are independent of the quantity of gerwood' Hoisting Engine, Boilers, Ore Buckets, etc. oxygen present. provided there is not less than 10 per cent. The action of the increased carbonic acid would be to prevent entirely the free interchange of gases in the lungs, so that the blood would become intensely charged with the products of combustion. The distress caused by diminishing the oxygen below 10 per cent. is less acute than in the case of increased carbonic acid. The latter constitutes a serious danger, for the danger point, as in the case of various anaesthetics, is reached quite suddenly. The effects are not felt by the person subjected to the action of these gases. All at once the loss of motive power occurs, followed by paralysis of the cerebellar function and loss of consciousness. Eight or nine respirations of air containing but 2 per cent. of oxygen will render a person insensible without any previous inconvenience having been felt.

Authorities are agreed that the loss of life in explosions in coal mines is due to the want of oxygen, and if imprisoned miners could be supplied with sufficient oxygen to last them for twenty minutes they would be enabled after an explosion to pass through the fire-damp by the various passage ways which lead to the bottom of the shaft and obtain the requisite supply of oxygen from the atmosphere. It does not seem a difficult feat to provide the sixty or seventy litres of oxygen required for an hour's respiration to each worker in a mine. The Davy lamp is supplied to him as a protection. Dr. Haldane contends that at an experditure of 6d, a miner

could be supplied with a small steel tube containing the requisite amount of oxygen to last for an hour, and an indiarubber connection with a regulating valve would enable it to be brought into operation when its use was required. It is useless to urge that the mining men are so little careful of their own safety that they would object to carrying such a life-saving agent into the seams and galleries in which they have to work. The safety appliance might be deposited close to where the men were working in small pockets or pouches near their pit clothes, so that they could always be at hand when required. The whole subject has been carefully gone into by Dr, J. S. Haldane, but we regret to say that his recommendations on the subject have so far been generally ignored by proprietors and managers of the mines and by those who are generally responsible for the sale con-

The greatest opportunity for a mine manager to rise above his associates and competitors lies in his ability to discriminate between methods entailing greater expense and those securing economy, There should be no items of cost, pertaining either to mining, shipping, or the generation of power, with which the operator is not thoroughly familiar. Where machines are used, it is necessary that the superintendent should know which machine gives the greatest proportion of lump, and the most favorable quantities of nut and slack. Supposing one machine gives 70 per cent lump, worth \$2,25 per ton, and 30 per cent nut and slack, worth \$1,25 per ton, if another machine produces 60 per cent lump and 40 per cent nut and slack, the use of the first machine would save \$30,000 in 300 days when the average output was 1,000 tons per day.

The Northern Pyrites Company of Dinorwic, Ont., the air reaches 3 per cent. there is an increase in the has bought from Allis-Chalmers-Bullock, Limited, Monnumber of respirations, which gradually extend until 18 treal, a mining plant consisting of a one-half duplex 'Inper cent. is reached, and the distress becomes acute, gersoll' Air Compressor, 'Ingersoll' Rock Drills, 'Lid-

> On the 26th, of October notices were posted up in the vicinity of the Drummond colliery requesting all emaloyees of the colliery eligible for membership in the P. W. A. to join within a specified time, and intimating that the union men would not work with the men out of the union. Tuesday, the 6th., the men at the colliery stopped work. The papers called it a strike, but if it can be called that it was of a unique character for the issue was not between employer and employed but between union and non union men. It is on record that the union men had no grievance with the company. The manager may have been asked to allow a committee of union men to canvass the pit, and he may have refused permission, but he was not informed that if the committee was not given permission the men would stop work. The sole object of the stoppage was to get all the men in union and in that it was successful. Work at the colliery was resuned on Friday though there were many absentees. It is to be hoped the men will work steady for the remainder of the month so that even with the loss of three days November may not prove to be an exception to the unbroken record of monthly increases in output which has characterized this years perform-

CANADIAN PICTORIAL.

CANADIAN PICTORIAL.

The Record as a rule sets its face against "ciubsing" with other papers. It has stuck in the past to the axiom that every tub should stand on its own bottom, but we are constrained from the impression produced by carefully looking over the publication to make an exception in favor of the Canadian Pictorial a new magazine or paper to be published and monthly. The first number displays excellent workman shifted and the production of the control of

The Canadian Copper Company, of Copper Cliff has bought from Allis-Chalmers-Bullock, Limited, Montaeal, a pumping plant consisting of an 8 inch single stage turbine pump driven by a 70 h.p. induction motor.

The Calumet Mining & Milling Co., Calumet, Que., has increased its plant by a 12 1/4 by 18 "Ingersoll" Air Compressor, driven by a 50 h. p. induction motor, both bought from Allis-Chalmers-Bultock, Limited. Montreal.

WANTED.

A COLLIERY BLACKSMITH.

Must be a steady man, familiar with colliery work, and also a good horse-shoer. Good wages.

APPLY TO

INTERCOLONIAL COAL COMPANY, LTD., Westville, N. S., 5th, Nov. 1906.

Mines. Minto. Minto N. B.

G. H. KING,

CHIPMAN, N. B.

WANTED

50 Miners and Laborers Coal. Ru. & Power Co., Ltd.

> AT THE Chignecto Mine.

David Mitchell,

Gen'l Manager Commission,) Norton, N. B.

Miners Wanted

Steady Employment, Good Wages and Free Land for Homes for Coal Miners, at MINTO, NEW BRUNSWICK.

The New Brunswick Provincial Government will give 10 Acres of Land FREE to Coal Miners who will settle at Minto, N. B. The conditions being the erection of a house and the occupation of the land for three years, and working in any For further information apply of the Mines.

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

HICH CRADE WIRE ROPES FOR Hoisting, Haulage, and Colliery Purposes. Manufactured Dominion Wire Rope Co., Ltd., MONTREAL

AUSTEN BROS .-: HALIFAX AGENTS.

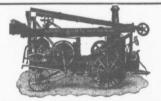
MONTREAL STEEL WORKS Limited.

STEELLCASTINGS FORGINGS, SPRINGS, FROGS CROSSINGS.

We make a Speciality of cast Steel WHEELS

and other Steel Castins for

INTERLOCKING SWITCH AND SIGNAL Plants. CANAL BANK, POINT ST. CHARLES MONTREAL .-



The KEYSTONE

Percussion Core Drill Attachmnt is an economical appliance for

TESTING COAL LANDS.

It can be used in connection with any good "churn" drill, but erates best on the long stroke KEYSTONE, thus making the

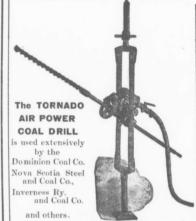
operates best on the long stroke KKINIONE, thus maxing the cheapest and quickest method of oring to be found.

In operation a hole is sunk to the coal with the ordinary Rock Bit. The Bit and Stem are then removed and the Coring Attach-ment put on in their place. It takes a 4 ft. core out of the Soft-est as well as the Hardest part to, the vein. Avoids all delay and expense of 'roda' water wash, diamonds, shot, and heavy operat-tion exchanges. ing mechanism.

Price of Complete Attachment \$200,00

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

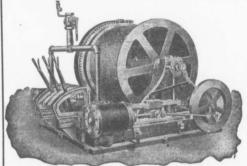
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Herzler & Henninger Mach. Works Manufacturers of the

H. & H. Coal Cutters & Tornado Coal Drills, Belleville, ILL., U. S. A.

"Lidgerwood" HOISTING ENGINES.



This is a view of our combined friction drum and brake and reversible link motion hoist-

The most economical mining hoist built.

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Branch Office, New Glasgow.

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Fairbanks Morse Duplex, Piston Pattern, Boiler Feed Pump.

Steam Pumps, Power Pumps, Fire Pumps.



Fairbanks Morse, Vertical Duplex Boiler Feed Pump, Marine Type.

We make pumps for all Purposes, and have a VERY Extensive Line of Patterns.

Our aim is to Build a High Grade Line of Pumping Machinery.

The Material and Workmanship entering into the Construction of Our Pumps is kept up to the highest Standard at all times.

All the Wearing Parts are made to Gauge and are therefore interchangeable.

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Send for our Catalog 48c, or have our representative in your vicinity call on you.

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A. F. LYTLE, New Glasgow, N. S,

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Fairbanks Morse Horizontal Duple Power Pump The Canadian Fairbanks Compar G. E. Choinier, St. John, N. B.

Montreal, Toronto, Winnipeg, Vancouver.



Synopsis of Canadian North-West.

Homestead Regulations.

Any even numbered section of Dominion Lands in Manitoha or the Northlands of the Northphysical Control of Control of Control of Control of Control
y any person the sole based of a family, or made over 18 years of age, to the
stent of one quarter section, of 163 acres, more or leas.

Application for homestead and the State of Control
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SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS

SYNOPSIS OF CANADIAN NORTH-WEST MINING RECITATIONS.
TALL, Coal lands may be purchased at 20 per acree for acid and 82 or company. Royally at the rate of tenses can be acquired by one individual or company. Royally at the rate of tense can be acquired by one individual or company. Royally at the rate of tense can be acquired by one individual or Gearty. A free miner, free miner can be according to a capital.

Gearty. A free miner, having discovered interest in place, may locate a claim 15:0 x 15:0 feet.

It is feet.

A free-miner, having discovered interest in place, may locate a claim 15:0 x 15:0 feet.

A free-miner, having discovered interest in place, may locate a claim 15:0 x 15:0 feet.

A free-miner having a covery more complete or paid, the location complete in the state of the provided of the complete or paid, the location may be according to the mining recorder in lies thereof. When 85:0 has been expended or paid, the location may be accorded to the complete or paid, the location of the complete of the payment of a royalty of 21:2 per cent on the sales.

The patent provides for the payers.

The patent provides for the payers of the square; enter fee \$2\$ renewable yearly.

A free miner may obtain two leases to dredge for gold of the unites each for a term of twenty year, renewable at the direction of the Minister of the

Interior.
The lesses shall have a dredge in operation within one second from the date of the lesse for each five miles. Restated in per annual for each mile of river lessest. Repulsify at the rate of 2 × 2 per cent collected on the output, after it will be a supplied to the control of 2 × 2 per cent collected on the output, after it will be a supplied to the control of 2 × 2 per cent collected on the output, after it will be a supplied to the control of 2 × 2 per cent collected on the output, after it will be a supplied to the collected on the output, after the collected on the output, after the collected on the output after the collected on the output, after the output, after the collected on the output, after the output, after the output, after the output, after the output, afte

Miners Wanted

Because it is the only Tobacco which does not excite Thirst for Water after using.

TRY IT

The St. Lawrence Tobacco Co., Ltd. -Montreal.

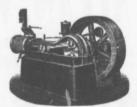
-W. B. Reynolds, Halifax Representative-

The Archibald Company, Limited

Hats, Caps, Straw Goods, all kinds of Fur Goods and Men's Furnishings. Wirolesale only,

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NOT ONE CENT FOR REPAIRS



An experienced Engineer has written us as follows:-

"After eighteen months of hard service, the Robb engines 3 "After aphiesen months of hard service, the Robb engines are in excellent ships, tunning very smooth and without a late of which is ships, the property of the ships of the sh

Robb Engineering Co., Ltd. Amherst, N. S.

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In appointing this Company your Executor, Trustee, etc. re-member our charges are fixed by the Courts, and are very moderate

Apply to Bank of N. S. for folders

HAMILTON'S ZEPHYR

..PILOT.

CALLED

"The Prince of Pilots.

Beyond Comparison. The Finest Pilot Biscuit Made. ASK YOUR GROCER FOR IT.

G. J. HAMILTON, & SONS.

Pictou, Halifax, St. John.

Contractors to Admiralty and War Office, also Colonial Governments.

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Clyde Patent Wire Rope Works,

Cablegrams: 'Ruthergien,' Ruthergien, Glasgow, Scotland. Codes, A. B. C. (4th & 5th Eds)
A. L. Liebezs and Fritale.

Winding & Haulage

Aerial Ropeways, Suspension Bridges, etc. Collieries and Mines.

flexible for Ore & Coal Discharging Cranes, Winches, etc. The Nova Scotia Steel & Coal Co., Ltd., who use our Ropes largely, write that one of our Haulage Ropes at Wabana Mines has been in service for over 5 years, drawing over 1,750,000 tens in that time and is still good for further considerable service.

Agents in Nova Scotia:-Wm. Stairs, Son & Morrow, Ltd., Halifax. Agents in hew Brunswick:-W. H. Therne & Co., Ltd., Saint John.

-Different Sizes and Qualities kept in Stock-

CAPE BRETON COLLIERY

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STEAM AND DOMESTIC COAL

SAFE AND CONVENIENT SHIPPING PORT

The Nearest Coal Port to Newfoundland

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Just Inside Entrance Great Bras doR.

Vessels from P. E. I. and Western Ports, via St. Peter's Canal, will save time by loading at New Campbelton. Smooth Inland Navigation. Quick Despatch.

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Miners and Shippers of INNERNESS (BROAD COVE)

Screened, Run-of-Min Slack,

-First Class both for Domestic and Steam Purposes.

BUNKER COAL Shipping facilities of at Port Hastings, C. B. for prompt loading of all classes and sizes of Steamers and sailing vessels.

Apply to Inverness Railway and Coal Company, Inverness, Cape Breton; Wm. Petrie, Agent, Port Hasting, C. B. INVERNESS RY. & COAL CO'Y

Time Table No. 21, Taking effect at 1 a.m Oct. 22nd. 1906.

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Trains make close connections at Pt. Tupper Jct. with I. C. R. passenger trains, excepting the Mari-

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-MABOU DIAMOND COAL.

Burns and Works like Bituminous;

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IT HAS NO EQUAL.

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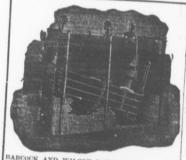
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STEEL BUILDINGS

ELECTRIC & HAND POWER CRANES Structural METAL WORK of all kinds

CHANNELS, ANGLES, PLATES, ETC., IN STOCK BEAMS.



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SUPERHEATERS

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These are only a few of the many supplies we have on hand. Write for quotations

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"G G" HARRISON IMPROVED COAL CUTTER.

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Successors to the plants and Water Tube Boiler business of The Stirling Company, Barberton, Ohio, and The Aultman & Taylor Machinery Coy., Mansfield, Ohio.

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Miners and Shippers of the

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Unexcelled for Steam, Domestic and General Purposes. DELIVERED BY RAIL OR WATER.

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Endless Haulage Engines, Revolving Tipples, Picking Tables and Com. plete Screening Plants for the Cleaning and Picking of Coal. Rope Wheels, Pumps, Valves, Shafting, Belting Etc.

Complete equipments furnished for Coal or Cold mines.

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WIRE ROPE, 'Acme Brand."

Highest Grade of Hoisting Rope made,

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Use Greening's Rope Grease for Lubrication.

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INTERCOLONIAL COAL MINING CO., Limited,

WESTVILLE, NOVA SCOTIA.

MANUFACTURERS AND MERCHANTS SHOULD ADVERTISE IN THE MARITIME MINING RECORD Rates Moderate.

GOWRIE AND BLOCKHOUSE COLLIERIES,

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MINE AND LOADING PIERS, PORT MORIEN, COW BAY CAPE BRETON, N.S.

Miners and Shippers of GOWRIE COAL. The Reputation of this Coal has Steadily Advanced during the past 40 years and the Output of the new

Especially designed Piers for the rapid delivery of coal into Vessels by Roe and Bedlington's Patents.

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BOILERS: All Sizes and all Pressures.



Worthington Pumps for Water Works and Mines.

Doble Water Wheels for high heads.

Two Worthington 3 stage Turbines and McCormick Water Wheels, built for Port Arthur, Ontario, Water Works. Combined eapacity 1440 gallons per minute against 350

Mill Machinery

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Bituminous Coals, the celebrated "Reserve" coal for household use, "International" Gas coal, and the best Steam coal from its collieries on the Phalen seam.

---Yearly output 3,500,000 tons.

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		STEAM	M COAL.	G/	S COAL
CARBON				77 51	per. cent
HYDROGEN			11 , 11	5 22	
OXYGEN				6 72	11 11
NITROGEN			11 11	3 07	16 11
ASH			11 11	4 10	16 16
WATER			11 11		11 11
	-	00 00		100 00	10 3 B

Calorffic Power of Steam Coal:—Pounds of Water evaporated from 212 per cent Fah, by one pound of the coal as determined in Thompson's Calorimeter,—14.8 lbs.

Shipping facilities at Sydney, and Louisburg, G. B., of most modern type. Steamers carrying —6000 tons loaded in 24 hours.—

Special attention given to quick loading of sailing vessels. Small vessels loaded with a quickest despatch.

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RAILWAY AND

OPERATING THREE THICK SEAMS NOS I, 2 AND 3.

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-Miners and Shippers of the Well Known-

FRESH MINED SPRINGHILL COAL

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Moisture	1.41 % 27.93 % 67.47 % 3.19 %	2.71 % 28.41 % 64.69 % 4.19 %
100.00	100.00	100.00
Sulphur 1.15 %	584	70 %

LOCOMOTIVE USE,

Delivered By Rail or Water

BEST COAL FOR
GENERAL STEAM PURPOSES

The year Round

DOMESTIC CONSUMPTION

IN Lots To Suit Purchasers.

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