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Inverness RAILWAY and COAL COY.
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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 J. McGILLIVRAY, General Manager.

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Time Table No. 31, Taking effect at 12.01 JUNE 28TH., 1914

SOUTHBOUND Superior Dir.		STATIONS.	NORTHBOUNI Inferior Dir		
54	52	Dinilons.	53	51	
P. M. 3 25	A M. 10 40	POINT TUPPER.	P. M. 3 40	A. M. 11 00	
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Fig. 2. HAULING.



LANC'S LAY ROPES.







Fig. 1. HAULING.



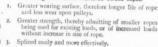
Fig. 13. SINKING.

Fig. 15a. WINDING.

PATENT FLATTENED STRAND ROPES.



Advantages of Patent Flattened Strand Ropes.



Less tendency to twist and stretch in working.

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

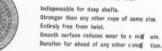
Fig. 4. WINDING



Fig. 20. GUIDE.









DEPARTMENT OF MINES. GEOLOGICAL SURVEY.

The Geological Survey publishes annually a Summary Report giving a summary statement of the work accomplished during the year. Maps and reports on various sections of the country and on special subjects appear from time to time. A catalogue of publications will be sent free to any applicant.

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RECENT PUBLICATIONS:

Descriptive sketch of the Geology and Economic Minerals of Canada, by G. A. Young and R. W. 1085. Descriptive sketch of the Geology and Economic Minerals of Canada, by G. A. Young and R. W. Brock. Accompanied by a geological and a mineral map of Canada.

Guide Book No. 1, Parts 1 and 2. Excursions in Eastern Quebec and the Maritime Pro finces.

Memoir 60. Arisaig-Antigonish district, Nova Scotia, by M. I. Williams.

Memoir 41. The "Fern Ledges" Carboniferous flora of St. John, New Brunswick, by Marie C. Stopes Memoir 20.

Gold fields of Nova Scotia, compiled by W. Malcolm from the results of investigations by E.

R. Faribault.

Memoir 44. Clay and Shale deposits of New Brunswick, by J. Keele. Map 39A. Geological map of Nova Scotia.

Map 53 A. Southeast Nova Scotia. Geology.

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

COAL SHIPMENT'S, 1915.

-ACADIA COAL CO.-

MONTHLY SHIPMENTS

	DOMINION	COAL	COMPANY.
--	----------	------	----------

MONTH		

7	1	914		19	15	Inc. o	or I	Dec.
January	183	845		-	200			
2	408	030		E22	200			66 .
and materies server	. 404	720		477 E	224		**	6
December	205	289		338	592.	I	33	303
	3 941	523	4	256	604		00	0-0
					523			
Y			-	-				

Inerease 1915...... 315 081

-SPRINGHILL.-

MONTHLY SHIPMENTS

. 19	14	19	915	Inc. o	r I	Dec.
January23	657	25	102		1	541
reditiary 21	022	24	77.4		-2	MOI
матешини и ини 24	827	24	170		0	241
2xp.11	549	26	575		2	974
May27	607	28	336			729
June	702	26	E28		2	264
July 38	200	34	230		5	949
raugust 21	062	22	752		9	209
September20	244	27	478		1	766
October 22	668	27	470		6	210
140vember	076	20	ATO		2	666
December 29	597	31	595		1	999
341	186	338				
		341	186			
Decrease 1915		2	053			

-NOVA SCOTIA STEEL & COAL CO.-

MONTHLY SHIPMENTS

19	14	1915	Inc. or	Dec.
January47	560	.28 777	I	8 783
February 23	180	22 714		466
March 15	651	24 691		9 040
April 27	430	25 523		1 907
May63	969	50 725	I	3 244
June 90	386	67 536	2	2 850
July99	365	72 751	2	6 614
August 86	375	61 560	2	4 815
September77	302	63 064	I	4 238
October89	925	58 469	3	1 457
November 37	894	56 734	· · · · · I	8 840
December31	376	50 694	I	9 318
690	403	583 238		

Decrease 1915 107 165

	14	1	915	Inc.	or l	Dec
January 42	025	20	014		22	OI
February 31	379	. 18	986	***	12	39
March 29	354	20	485		. 8	860
April33	128	. 18	814		.14	284
May 22	956	20	347		. 2	600
June 22	993	25	669		2	676
July24	695	. 27	050		. 3	255
August26	121	. 25	435			686
September34	179	. 27	184		. 6	00
October 33	082	. 29	844		. 3	238
November26	317	. 28	856		. 2	530
December20	987	37	034		.16	037
347	216	300	648			
		347	216			
Decrease 1915			568			

-INTERCOLONIAL COAL CO-

MONTHLY SHIPMENTS

MONIN	ri outhwa	NIS		
	14		Inc. of	Dec.
January 15				5 170
February 14	556	11 110		3 346
March16	879	13 425	******	3 454
April 10	135	10 292		157
May 11				2 297
June 15	781	14 848		933
July 17	308	18 509		1 201
August 16	724	12 780		4 344
September 14	016	15 099		1 083
October 11	895	14 894		2 999
November 13	353	14 271		918
December 10	302	437		9 865
168	021 1	49 464		
	1	68 021		
Decrease 1	915	18 557		

RECAPITULATION.

CAPE BRETON COUNTY.

	1914	1915	Inc. or Dec.
Dominion Coal Co3 N. S. S. & Coal Co Colonial Mining Co., Sydney Coal Co., etc.	941 523 690 403 68 000	4 256 604 583 238 54 000 6 000	
Ā	600 026	4 800 842	I 100 016

Acadia Coal Co Int. Coal Co	347 216	300 648	46 568
	168 021	149 464	18 557
	515 237	450 112	D 65 125

CUMBERLAND COUNTY.

Dominion Coal Co	341	186	338	233		2	807
Mar. C. Ry. & P. Co. Other collieries	{191	000	153 76	500			000
	532	166	567	733	I	35	567

Inverness County.... 245 000 225 000 D 20 000

	19156		
Increase	TOTE	100	F09

MARITIME MINING RECORD.

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

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

Advertising Rates, which are moderate, may be had on

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

R. DRUMMOND. PUBLISHER.

STELLARTON, N. S.

January 12, 1916.

THE PROSPECTS.

Whatever it may be based on is not to be expressed in definite terms, yet there is no gainsaying the fact that at no previous time, in the history of the Nova Scotia coal trade, has there been so quiet yet pervasive a spirit of optimism prevalent around time. The operators as a whole, on the Island and year as the trade has experienced The one question that is a little perplexing is: "What of labor, will there be a sufficient supply or a shortage?" problem. If these two questions could be satisfact orily answered, the RECORD would join in the opcreased trade is looked for, and where there can be no increase there will be no falling off.

There may be a few who do not share the optimism of the RECORD. Among them is that indereviewing the outputs of 1913, said, in effect, that it genuine remedy. would be several years before so large an output was again attained, for the reason that the companies would not be in a position to increase their outputs. In reviewing, in the same paper, the output for 1915, Mr. Gray says: "It is therefore apparent that a serious shrinkage of the output capacity of the coal mines of Nova Scotia has taken place...... 'independent altogether of considerations of market demand and labor supply." There are some who think the labor shortage was not so big an evil as many suppose, and these may quote Mr. Gray, in the Coal Trade Journal, as follows

"The output of coal has been seriously diminished by recruiting. It is accurately and conservatively estimated that 22 per cent. of the mine workers of Nova Scotia have joined the colors of Britain or her allies, and of course the reduction in outputs has been in proportion.'

In this quotation it is plainly affirmed that there was a reduction in 1915, of outputs, corresponding to the decrease in the labor supply, namely, twenty-two per cent. If that be really so then Mr. Gray must take back his assertion that Nova Scotia cannot reach for several years, her output of 1913. According to his latest statement, but for the labor shortage, the ing outputs of munitions at a time when the supply 1915 output would have knocked the 1913 output to

pieces. Mr. Grav puts the output of 1915 at 6,707,000 tons-but it would have been twenty-two per cent. Twenty-two greater only for the shortage of labor. per cent, shortage, due to labor, added to the actual figure4, gives a total of 8,174,000 tons, or 922,000 tons greater than that of 1913. One of the positions must be abandoned, either the one asserting that 1913 must be for some years the daddy year, or that labor is responsible for a 22 per cent. decrease in output.

The New Year opened with the screeching of the politicians over the closing of the colliery at Thorburn. In view of an early local election these think the time fitting to make a little capital, if possible. It is a great pity the matter could not be discussed calmly, and wholly apart from politics. If the politicians were content to express sympathy no fault could be found, but when one side declares what should have been done, and the other declares what it will do, both go too far. No government, in justice, can compel any company to carry on business at a loss. A government, in a sense, can do anything, can even possibly, in some cases, cancel a lease, in short, a government, if it chooses, can comthe collieries, as to the future, as at the present mit a gross act of injustice, but that would not redound to its credit, to the good name, or the true more particularly on the Mainland, ar. in good prosperity of the country. If the politicians were cheer and declare that 1916 should be as good a candid they wo ld say: "We are sorry, but the Acadia Coal Company cannot be compelled to work the mine at a loss or at a time when the working of the Thorburn mine would greatly hamper the working There is also the question affecting the Island col. of the other collieries." As the RECORD understands lieries, of water transportation. For the doing of a the situation any compulsion to work Thorburn might big and increased tra e, suitable steamers must be disastrously affect the annes at scellarton, for the had, and if Britain goes on commandeering all suit- working of the Thorbura mine, we are assured, will able craft, transportation may become a baffling mean that the company over its whole field of operations will not be able to make ends meet, and, in that event, could they be expected to carry on operations at timistic chorus. At a majority of the collieries, in. any point? It is greatly to be regretted that the company was forced to close the mine, but what is to be done if the company asserts that for years the Vale has not paid? The one thing the local government can do is to make inquiry into the truth of the assertions of fatigible and clever contributor to several papers, Mr. the company as to losses at Thorburn. If the state-F. W. Gray. In the Mining Journal, Mr. Gray in ments are true, then, we fear the politicians have no

- Rubs by Rambier. -

A Halifax daily on receiving a despatch telling of D. A. Thomas' elevation to the peerage or something, clapped its hands and stamped its feet and with boisterous glee shouted "What has Sir Sam to say now, for is not the honor conferred on Mr. Thomas a sly slap in the face to Sir Sam and the members of his Shell Committee?" In this instance this independent, highly partizan Halifax paper was just a little "too previous." Had it waited one day longer it would have learned of the honor conferred on Mr. Bertram, the chairman of that very committee. The honor was conferred on Mr. Thomas to keep him sweet after he had a tendency to become sour on discovering that Canadians needed no instructors, but had pointers to spare, while the honor conferred on Bertram was a recognition of services rendered by the committee in expeditwas short of requirements.

I am pleased to notice that the more respectable, article written for the Herald by one evidently not and responsible, of the newspapers are giving scant to the manor born. A reading of them, from one space, and at long intervals, to the effusion of the view point, amazes, from another, amuses. The writer called Gadsby. Some of them do not give writer of them after having explained where 95% his name in full, out of sheer shame, presumably, of the Dominion Coal Co.'s output went, says; That is well, one cannot handle pitch without being sidered facetious. Instead of that he succeeds in when we were only too glad to furnish a winter that any newspaper willing to insert Gadsby's seur-resents a negligible quantity of low grade, nonrilous articles is very hard up for copy, or is willing metallurgical stock. It would be practically useto go to any extreme in opposition to the present government, all its members and all its works. I said to a friend the other day: "I think I will en- a measure of criticism since the outbreak of the war, lighten Gadsby on a point or two about the late with regard to those United States contracts. It is Shell Committee." He said: "Leave him alone; but fitting that their reply to that criticism be set don't you know that it is the part of wisdom to down baldly, and as it is given, without comment, give a certain unsavory smelling animal as wide a berth as possible?" Well, taking the advice I will not reply at any length to his latest libels on the Shell Committee. I express the hope that a parliamentary committee will be appointed to investigate getic manner when writing in defence. This arises ences the ordinary reader would draw, are these: from the fact that they cannot be familiar with all that the committee has done, and all that they have saved, and helped, the Empire. Time will come when the actions of the committee will be vindicated and the big work they accomplished acknowledged.

It looks as if the failure of the Acadia Coal Coy. to work the mine at Thorburn at the solicitation of nish the politicians, local and federal, with splendid enemy. opportunities for showing zeal that consumes for the welfare of the Thorburn people, more especially the voters there. It is said that a member of the government declared publicly that the local govern-Acadia Coy, a lease for all the areas instead of leases for the areas in the several localities. If that is so areas alone, but to those of several companies and these the biggest in the province. The politicians should be as careful as possible not to talk nonsense, of Nova Scotia would have went wholly to the dogs If the local government is to be asked to put "on and be there now, and, the rankest inference of the screws" in this instance then it has a busy sea- all that ninety-five per cent, of the coal shipped son before it, for the Acadia is not the only company working a colliery in one district and allownig a colliery to remain idle in another locality. For some good points, and yet it is a wonderfully amusyears the mine at Thorburn has been a subject of anxiety to the company, and it had been all but desouls to make a precipitate descent from the almost termined on more than one oceasion to close it down, sublime to the wholly ridiculous. but hoping against hope the company kept working even at a loss. Of course there are those who say the mine can be made to pay. That is possible, but the way to accomplish so desirable an end has not been made plain. Thorburn has not been abandoned, else the government might have the right to the three requisites, without which, it has been step in. It is expected yet to recover the big body of coal there, but the company maintains that the such as ours, may hope to become of first importpresent is not the time to do so. One reason given ance. Need it be mentioned that these three are among others being the scarcity of men at their better paying collieries.

The following stunning paragraphs are from an

"Leaving 5 per cent, which goes to fill contracts defiled. Gadsby's ambition seemingly is to be con- in the United States entered into prior to the war, being contemptible. It may be taken for granted output, when times were blue. This 5 per cent, repless for war purposes.

"The Dominion Coal Co. has been subjected to

"When sounded on the subject came the remark 'they would welcome the interference, if the government stepped in and cancelled these contracts.

Taken as a whole the paragraphs are a master-piece of misinformation. Taken separately they inwhat basis there is for the inuendos and assertions dicate to what a nice science some official of the Doregarding the committee emanating from the Gads-minion Coal Co, has reduced the by-times useful art by and other sources. The funny—the amazing— of leg pulling, or they afford striking illustrations thing is that some of the newspapers willing to play of the wrongful and ridiculous inferences for which fair with the Shell Committee adopt a half apolo- faulty expression is responsible. Among the infer-

1. That when times were not blue no slack coal was shipped to U. S. That a "winter output" is a negligible quan-

That Dominion slack is low grade, or, and,

that what is sent to U. S. is specially selected because of its degradedness,

4. That the Dominion Coal Co. in sending coal representatives of the people living there will fur- to the U.S. has been censured for trading with the

That these censures originated in Canada. That the company was blamed for sending G low grade slack to U.S.

7. That the large quantity, comparatively, of ment had made a tremendous mistake in giving the coal sent to the New England railways last year was "low grade slack.

8. That the company would like the governthen its shortcomings do not apply to the Acadia ment to forbid the D. C. Co. from sending slack coal to the United States.

9. That were it not for the war the coal trade from Nova Scotia was for war purposes.

The article from which the extracts are taken has ing illustration of how easy it is for some impulsive

THE COAL TRADE IN 1915.-MR. DRUMMOND IN THE HALIFAX HERALD.

Stellarton, December 30.—As Halifax Herald readers know, Nova Scotia has within her bounds declared, no country, no portion of a wide Dominion, (1) large areas of land suitable for all agricultural purposes; (2) extensive, if not limitless coal fiends, and (3) greatly expanding iron and steel manufactomon are valuable and lumbering plays a not unimport- ineffective. Had I been asked three months ago, ant part. We have then, in the province, what are how the shipments of 1915 were likely to compare and part. We have then, in the province, what are now the sulphaents of 1915 were then, in the accounted the three essentials to progress, with two with those of 1914, without much hesitation the valuable contributory side lines thrown in, as a answer would have been "There can be no instandby, as it were. Some of the fishe: folk may crease." And yet there is an increase, and a fair dispute the order of my classification, but scarcely successfully.

Of the several contributories to the prosperity of our province. I need searcely repeat that coal is steel industry dependent upon it is, and is bound said to close with October.

to remain king.

and taken for its name coal. Without coal there 1916 will likely show the largest shipments on recwould be no civilization as we know it now, With- ord out coal Nova Scotia would be given a lower place cedent to the war, and since the additional disarone may say, of the several provinces of the Dominion, Nova Scotia was the least adversely affect-

Twenty odd years ago it was freely predicted by the newspapers of British Columbia, that that province, in the matter of coal production, would wrest the laurels from Nova Scotia. At the time the prediction was stoutly disputed, and is still unfulfilled. If Nova Scotia has to step down from the first place as a producer of coal in Canada, I am of opinshe must bend the knee. As a producer of coal, Alberta has shown phenomenal growth in recent can hope to assume the place now held by this tight

little province by the sea.

I was asked the other day, to give an estimate of the amount of capital invested in the coal and steel industries of the province. Making hasty estimate, I placed the sum at about ninety-five million Possibly I overestimated by two or three million dollars. A revision impels me to place the sum at ninety million dollars, divided almost equally between the two industries. A steel and iron trade champion might say forty-six million dollars in that industry, while one interested in coal might reverse the figures. This large sum divided as one will, affords proof of the great importance of these two branches of industry to the life present and future, of the province. A regrettable feature of the investment, in the case of coal principally, is locked up in collieries at present unworkable, from tion that at some future time, the collieries now dormant, may spring into new and vigorous life.

The Dominion Coal company has saved the sit-

No small credit is due General Manager W. H. McDougall for the efficiency of his staff in general. operations wholly for the first half of the year and But had he not in J. R. McIsaac, the transporta- is still interfering, though the output is now up

Besides these the fisheries of the province ing a satisfactory output would be in large degree one, all things considered. The sole credit for this is due to the three last months of the year, and especially to the phenomenal shipments of the Dominion Coal company for November and December. the greatest. Agriculture, of course, must be given These two months, as a rule, are classed among the a high place, but after all is said, coal, with the slack months, as the St. Lawrence trade may be

The shipments for the calendar year 1914 were. The growth and greatness of the western prov- in rough figures, 5,900,000 tons; this year the estiinces lie in their boundless, fertile prairies; the mated shipments are 6.050,000, an increase of 150,future of Nova Scotia lies in what were once prairie 000 tons, not a large increase certainly, but, seeand peat. The latter, through processes of nature, ing the increase occurred in the three last months and the lapse of ages of time, has become solidified, of the year, one that may be taken as a token that

Shipments to the St. Lawrence will be considthan is now given it, I fear, by haughty, impulsive erably short of last year. The high rate of charwesterners. Since the worldwide depression preter is responsible for this. The Dominion Coal company unluckily had few old time charter boats, rangement of business succeeding its declaration, and new charters were very high. Neither of the two big companies took new contracts this year. but they were forced to fill old contracts, no mated, and that must go primarily to the credit of coal, ter the cost of transportation. I am going to hazard the opinion that the St. Lawrence trade, this year, was a losing one for those companies engaged in the trade. How much more than twenty-five cents a ton they lost on every ton that went up the river I do not think it would be politic to tell.

As a rule the companies deliver from 150,000 to 175,000 tons for the Canadian government railway ion that not to British Columbia, but to Alberta, at Levis; this year, I believe, the quantity does not reach 20,000 tons, and hence the scarcity of coal at all points on the government railway. Two conyears, but still, it will be many years before she tracts for water shipments, were entered into, I believe, by the railway. One was filled up to some 15,000 tons only, on account of the impossibility of securing steamers at a rate that would not entail a tremendous loss. The other contract was not filled because when the company was ready to supply the coal the railway was not in a position to receive it, and when ready to receive it the Coal company said it was not then in a position to supply it.

Seeing there has been a heavy falling off in the shipments to the St. Lawrence, our best market, how happens it that there is an increase in the year. over 1914. The answer is "the activity in the provincial steel trade." But for this the total shipments for the year would have shown a heavy decrease and this is said though at present, and for the past four weeks the mainland collieries especialthat a large part of it is unremunerative, being ly, have not been able to meet the demand for domestic coals. In the closing months of the year one cause or another. There remains the consola- much more coal could have been sold had the companies been able to furnish it. And why were they not? Largely owing to the insufficient supply of . labor, and to accidents interrupting outputs at the mines. Take Pictou county.

The fire in the Allan mine caused a cessation of tion manager, and had the company not in A. Dick to say 500 tons per day. Then the outbreak of fire a salesman of highest repute, his efforts in procurat the Drummond colliery is responsible for the loss

(Continued on page 12)

AROUND THE COLLIERIES.

The Joggins mine banked some 9,000 tons of slack This bank is being gradually filled away.

Things are looking bright for the Joggins during 1916 are bright. this year. The output for the past three months was 17,000 tons per month, whatever more.

least as good as last year. The possibility is that the bought, and the purchase of a second one is being shortage may be more acute, as recruiting is still con- completed. tinning.

Cumming' shell factory A majority of these are & Power Co That is well, for the company had its making 'big money' and go about their work as if they had been bred to the business.

The firm of J. W. Cumming & Son, New Glasgow. have so far sent forward seven cars of shells, and exmore. On a rough guess we would say there are 1650 high explosive 4.5 shells to a car.

so very particular as to give the shells two coats of being obtained. varnish in the inside, and two coats of paint outside? The varnishing is not required in the smaller, but in the high explosive shells it is, as the Lyddite has a was some 4,000 tons ahead of that of 1914. peculiar chemical action on the steel, and they are must not be forgetten that the company had only one painted as a precaution against rust.

1914 was 265,000 tons against 245,000 tons for 1915, in 1915 it went up to 57,000 tons, a very fair increase, The falling off is more than accounted for by the ab- and one reflecting credit on the General Manager, G. sence of shipments to thr St. Lawrence, which in 1914 B. Burchell, amounted to 25,000 tons. The St. Lawrence trade was abandoned because it was a profitless business at prevailing high transportation rates.

It has been stated that the shortage of labor in C. B., at the collieries, is more imaginative than actual, upon Possibly the bond-holders may fare better than In opposition to this the officials of the Dominion Coal they had expected six months ago. There is now Company, for instance, point to the fact that in the hope that the property may be placed on a paying basis, early summer of 1915 the output went as high as 21,000 tons a day, whereas in the autumn and fall months the best that could be obtained was 17,000 tons.

the belief that we knew all of the seams in Pictou Company, in reference to the re-opening of the mine County, and all about them, while it turns out that at Thorburn. The interview was long and no barsh County, and an about them, where terms out that at I around. The merely was long and in the our knowledge has been of an elementary kind. The words possed, though the delegation did not attain discovery of a twenty-one foot seam most colliery own their object. The delegation suggested to the General ers would consider a big bonanza, but what term can Manager that if the company could not see its way be applied to the announcement that thirty-eight feet clear to the re-opening of the mine, that they would below the long known 'Stellar' seam another six foot sub-lease it, for a time, to others. To this the reply seam has been found. The drill core indicates that was that such a proceeding might interfere with the 5 ft. 6 of this new seam is of excellent quality. In future intentions of the companp No definite promlast issue we said that possibly there were other sur- ise was given by the General Manager, but the hint prises in store for the people of the County, but really was thrown out that at a time not far distant plans we did not expect the glad surprise would come as a might be adopted for the re-working of the long idle

There have been no labor troubles at Springhill, or the Joggius, or elsewhere in Cumberland County during the year, and prospects of continued peace during

The surface plant of the Maritime Coal, Ry. & Power Co. was greatly improved during the past year. If the labor shortage does not increase during 1916 The railway also came in for attention. A new 67 the chances are that the colliery outputs will be at ton locomotive, consolidated - without tender -was

It is suggested that 1916 will turn out to be the There are some 140 men on the pay roll of the best year in the history of the Marittme Coal, Railway own share of lean years. Mr. R. J. Bell, the General Manager, is winning laurels, and if he is elated, he has reason for it.

The Maritime Coal, Railway & Power Co had pect to put to the credit of January five car loads some slack time during the early summer of last year. Gradually business improved until at the present time the demand is greater than the production The company also suffered from shortage of men; this, too, is Why is it that the makers of shells require to be being remedied, and almost all the men necessary are

The output of the Colonial Coal Company for 1915 colliery in operation against two for the best portion of The output of the Colonial mine, the one col-The output of the Inverness Ry. & Coal Co. in liery being operated, was, in 1914, 30,000 tons, while

> There is sufficient coal in sight, in the seven foot seam now being worked at Inverness, to keep things going at an average output of 1200 tons per day for 20 years. After that there is the 13 ft. seam to fall back

A deputation from Thorburu, consisting of five representative citizens, and accompanied by Messrs R M. McGregor and R. H. McKay, M. P. Ps., waited Goodness! Here we were contentedly living in on General Manager Prudhomme, of the Acadia Coal McBean seam.

AROUND THE COLLIERIES.

Mr. J. McGillivray, Receiver for the Inverness There is Railway & Coal Co., has high hopes that before long more miners. he shall be able to find ready sale for the full output of the colliery, say 350,000 tons. As a domestic coal with that from any other colliery in the province.

called honce begin thouses that have been pant the deceased by pa-pers, small and great, all over the land. It is content mine for men sufficient to give a 600 ton daily output, to say that Mr Fraser's life is a splendid example for the ordinary man. He attained his eminent position by diligent plodding and not by a display of great genius.

Owing to the New Year holidays and to the enits own primitive way, tested the coal from the upper part of the seam, and has no hesitation in pronouncing it excellent. Its character, as exposed by burning in not be excelled in the province.

The find of a twenty foot seam—not mentioned in ville opens hopefully, the records—under the McGregor, has led certain interested in coal seams geology, to wonder if what was discovered at Stellarton, through means of a drill, may not be an incentive to putting down bore-holes under the known seams in other sections of the county. People who were contented to say that there were no more coal seams than those already recorded are now wayering and willing to go the length of admitting that what was possible in Stellarton may be possible in other parts of the county. In confirmation of this let me give the following.

"Some months ago a bore-hole was put down from the six foot-so called -seam to test the McBean scam. At a distance of some 780 feet the McBean seam was struck, and judging from the core, the coal is good. Now the point I wish to make is this: If a bore from the McGregor down, revealed a new seam of coal, is it not possible if the bore, which went only as far as the McBean, was continued, that what happened at Ste! larton might ensue at Thorburn. It is not for one Lot an official of the company to say how the McPean should be worked when the re opening has been determined upon, but I suggest that as the main stope in the six foot seam is easily kept up and in good repair, it would be possible to extract the coal in the McBean by way of the slope, if a comparitively shallow shaft was sunk from it The cost would not be heavy. At the same time a large quantity of coal in the six foot seam could be conveniently mined, and mixed with the McBean seam coal. Suppose a larger seam was found below the McBean the shaft could be connected directconcerned "

There is room at the Albion mine for about fifty

As showing the effect that a shortage of labor hns it is asserted the product of the mine will hold its own on output take the Allan mine. During the time the Drummond colliery was closed, many men from Westville worked at the Allan, the consequence being a 500 Since our last issue that well known figure in ton daily output. These men are again at work in provincial industrialism, Mr. Graham Fraser, has been Westville and the output at the Allau has gone down The RECORD cannot add to the many to 350 tons. The labor problem is causing the manhigh tributes that have been paid the deceased by pa- agement no small anxiety. There are places in the

The fire at the Drummond Colliery, as the Record had hoped, has proven not to be so difficult, tedious and expensive to overcome as some fires which have preceded. No doubt the quick recovery countering of a heavy feeder of gas, which has to be of the mine is due to the intelligent and energetic drained off, the whole of the face of the 21 foot seam efforts of the officials, who as soon as the fire was is not exposed at this writing. The RECORD has, in discovered took effective steps for its control. The people of Westville are of course highly pleased at the prospect of the several slopes putting out in a short time a maximum output. The water poured an open grate, is that as a likely gas producer it caninto the mine to extinguish the fire did so effectually, and the danger done by it to the sides and roofs is comparatively triffing. The New Year for West-

The Record has been favored with the following notes in reference to the work done in the two square miles of submarine territory lying outside of the "Seotia" submarine leases, and acquired under lease from the Dominion Coal Company in 1913, The sinkings have been driven into this territory 2.000 feet. To handle economically the soundless able tonnage intended to be taken out of the e-weak it was thought necessary to drive a completely new haulage way from the bottom of the Princess Shaft direct to the new depths entering the areas referred This work was laid out by Scotia's engineers. To open this haulage-way through the old pillars for a distance of one and a half miles it was necessary to remove a large quantity of rock from the old working places, as well as to drive through portions of old pillars abandoned or lost, and other sections where the pillars had been crushed.. The work of driving this haulage way was begun at No. 1, or Princess Pit bottom, again at the boundary between Scotia and Dominion Submarine leases, and also at two intermediary points, and so carefully and skillfully was the engineering work done that these various openings when connected were all perfectly in line, with a discrepancy of less than an inch in any part, and there is now a straight roadway from No. 1 pit bottom to the face of the new deeps—a distance of over 10,000 feet. This road is ly with the surface and also extended downwards, now being permanently timbered, and will be These are a few ideas which, if acted upon, might equipped with double tracks of 60 pound rails the prove profitable to the company, the county, and all entire distance, and when completed will be a smooth, straight tangent, and uniform grade from

the pit bottom to the former eastern boundary of still constantly men are being killed in larger prothe Scotia submarine areas, where the haulage cu-portion than in other coal producing countries.

(Continued from page 9)

Joggins are incorrect. There has been an increase and not a decrease.)

The decrease shown by the Colonial Coal com-

There has been a marked increase of sales to the United States, as compared with previous years, which were marked by a steady decline. This inerease is attributable to the perseverance of A. Dick. who sweltered in Boston in the dog days of 1914, chasing certain railway magnates and finally inducing them to make contracts for a fairly large quantity of other than slack coal. Whether contracts ed a moderate addition to their day's wage. At will be renewed is problematical. If freights decline present there is no apparent disturbing element,

tion may not be looked for at present. For a war year the coal trade has been fairly satisfactory. There would have been fuller satiswhich, in the past, in the matter of mine accidents, has had an unsavory reputation, will, I fear, turn think there is big money in coal production, that out correct. This is to be deplored. In spite of the there are a half dozen or so unworked coal mines in motte endorsed by every mine manager and super-the province, which may be had for a snap. A rare intendent, "safety first," accidents not only keep chance for governmental operation, or, better, for on occurring, but increasing. What is to be done? those who think coal should be sold at half its pres-Our Mines Regulation act, and the special rules, ent price. for the guidance of employees at the several colthe guidance of employees at the several col. lieries, are good—none better. Our superintend, the collieries. The more notable of the few are the

gines used for assembling the coal won from the Why, it may be asked? A satisfactory answer is gines used for assembling the coal won from the pray, a may be assembled a sample of the coal new submarine extensions will be located and where not at hand. Possibly the sharp angle of the coal the trip to the pit bottom will be made up. This seams, or the fickle nature of the roofs, the overroadway being double tracked, perfectly straight, head metals—makes mining in Nova Scotia more and of uniform grade, is expected to be operated hazardous than in some countries. The reasons at high speed and at a minimum cost of transport, should be sought out and made known, and in this the government should take a leading part. "Government by commission" is a butt which certain newspapers delight to keep firing at and yet I of a full month's output, and will retard operations should be gone into by a commission, whose compoof a rath months a suspen, and will retard operations should be gone into by a commission, whose composition months to come. In Inverness county the short-sition might be somewhat as follows:—The inage of 25,000 tons is wholly due to the impossibile spector of mines and the several deputies; the manity of making shipments to the St. Lawrence, and agers or superintendents of the several mines; the at prevailing charter rates. And yet underground manager and a practical miner—from in the case of the Inverness Railway and Coal come each colliery, and any others interested in the natpany, the loss of shipments to the St. Lawrence ter. The companies should pay the small expenses pany, the loss of supplients to the St. Lawrence could not result in other than a financial gain to of the officials, and of the miners in localities where the bondholders. The company, as is known, is now there is no union. The railway department, no the bondingness. The company, as is known, is now there is no union. The rantway department, no in the hands of a receiver, J. McGillivray, and if doubt, if asked, would provide transportation free, all that is told be true, there might have been no or at a nominal charge. The only cost to the local art that is tone be true, there might have been no or be a homeon band, the only cost to the local default of bond interest had it been wholly in his government would be hall rent, printing, and other (The figures in the Herald in reference to the ance that something must be done and soon. small incidentals. The subject is of such import-

Time was, and not so long ago, when certain newspapers and their correspondents, took keen delight in railing at the "coal barons," so called. pany is due to the fact that one of its mines—the Of late there has been none of this. Why, I won-McKay—closed down in August of 1914, and that der? Possibly, chiefly, because audiences took little the briquetting plant, like most every other plant interest in the matter, more than from the possi-of the kind on the continent, was put out of combility that the eyes of the censurers had been mission owning to the purchasing public not be opened. But, when former assailants are silent, how coming enamored of the product. Briquette mak, comes it that no newspaper has been generous ing won't pay until a cheaper binder is discovered, enough to give the robber barons the credit of hav-So it is seen that though in ordinary years lessened ing renounced their alleged evil ways? Has The demand is responsible for lessened output, other Herald and its readers taken notice that though, and sinister causes must, this year, shoulder the since the beginning of the war, prices of material have kept on increasing, wages gone higher, and the expenses of the living of the barons increased, they have not, since 1912, increased the price of coal at the pit head. This is "one for the barons." I should say, though there has been no press commendation,

There have been no serious labor troubles during the year. A couple of appeals to the Industrial the chances should be even, but lower transporta, and peace is expected to prevail during the coming

Operations at the Drummond colliery have once faction were it not that the number of individual ters will soon be put to rights. The Acadian is rapvious year. My opinion, that the fatality percent. Beyond these there are no untoward incidents from ages in Nova Scotia for 1915 will show in a more a material standpoint, of a serious kind to be re-

heries, are good—none better. Our superintend, the collecties. The more notable of the few are the ents, while energetic and hustling, are careful, and appointment of H. Poudhomme, who took a leading our colliery workers are above the average, and part in the promotion of the Belgian relief fund,

to be general manager of the Acadia Coal company, in a smaller plant. I take that of J. W. Cummings

What of 1916? Presently the prospects are cheering. There should be increased shipments, unless, indeed, there is a labor shortage. It is esti-

mated that two thousand men have, so far, been ideal, and typical of similar finishing plants in the recruited from the colliery districts. But take province, of which there are several. By the way, notice that the figures do not represent the actual labor loss to the companies. Why? Ah, well, it may not do to be specific, but still it may be hinted that the men who volunteered were the men who had "go" ' as a characteristic. The 2,000 who went represent the labor of a much larger number of the average of colliery workers they left behind.

Halifax, Dec. 31.—The operation of the Dartmouth to Deans branch of the government railway system will be undertaken on Monday, January 3rd. The trains will run from Upper Musquodoboit, leavthe run of 70 miles in four hours. Returning the train will leave Dartmouth at 3 o'clock in the afternoon arriving at Upper Musquodoboit at 7.30 Company. The first operation then is cutting the o'clock in the evening. The trains will run on three forging to length by a five inch cutting off machine. days each week—Tuesdays, Thursdays and Satur–The operator of this machine does the second (2) days. It will be a mixed service—passenger and operation which is "centering" by a 22 inch drill. freight. Caviechi and Pagano, the contractors who built the road, have been running the service for are turned out per hour continuously. some months and have thereby been a great consome months and have thereby been a great conThree. Rough turning. The lathe for this work venience to the people travelling from Halifax to is a powerful and special "simplex," which makes Middle Musquodoboit. Now it is to be undertaken short work of turning the rough forging to size in by the I. C. R. as a branch of the system that ex- one cut. tends from Halifax to Winnipeg. The desire of the people on the shore and through the Musquodoboit valley is at last to be gratified with the operation of the road as a part of the I. C. R., and in this respect the beginning of 1916 will be memorable. will be noted that the road in the meantime will be operated not to Deans, but to Upper Musquodoboit. are cut accurately.

SHELL MAKING.

(Mr. Drummond, in Halifax Herald.)

Many people declare they do not clearly understand why so much and so nice labor is involved in the production of shells, made to be shot from cannons' mouths, and explode and go to pieces at a given spot, or at a given time, nor can they understand why a shell has to undergo so many different and intricate processes before it is entitled to be ealled "finished." To have more than a hazy idea of shell making, one has either the processes explained to him or better, be a witness of the processes. Assuming that many Herald readers never had the opportunity to tramp the rounds of a shell factory, I shall make an attempt to refer to the processes in short detail. Should an expert, after reading the description, pronounce it superficial, I hope 28-inch, shell projections first cut-off and the base I may have grace given me to throw a kiss to the

Several firms in Nova Scotia are largely engaged in turning out shells, the two principal ones being fifty. When stamped O. K., are sent back for com-Dominion Steel Company. These two companies are

and the elevation of George Gray to be assistant to and Son, New Glasgow, for three reasons; first, it was near by; second, the firm is more or less directly connected with coal mining, being makers of mining tools and equipment from a coal drill to a mine car; and third, because it may be taken as an enumeration of the processes may convince some that the making of shells costing from ten to twentyfive dollars is not the huge bonanza they suppose.

The plant of J. W. Cummings and Son, will compare favorably with any of the kind in the Maritime Provinces. They were the second firm in Nova Scotia to make high explosive shells. The government I. C. R. TAKES OVER LINE TO MUSQUODOBOIT. acter of its product. In short it is an up-to-date plant with a capacity of two hundred and fifty finished shells in a twenty-four hour working day.

The shell machines are placed in groups on each ing at 5.30 in the morning and arriving at Dart- gine; the air for the expanding man drills is supside of the shop, and are driven by a powerful enmouth at 10 o'clock in the forenoon, thus making plied by a Canadian air compressor. I shall set progressive figures before the several processes.

The shell forgings are supplied by the "Scotia" forging to length by a five inch cutting off machine. The two machines are so placed that fifteen shells

Four. Inside boring. Done on two 28 inch and one 16 inch lathes, specially fitted with turrets. in which are four bars of special design to hold the necessary roughing and finishing cutters.

Five. Cuting to length is done on a special cutting-off machine, fitted with a gauge so that all shells

Six. Heating the shell for nosing or bottling. For this an ingenious soft foal furnace is employed. filled with a water-cooled front, which keeps the body cool while the nose of the shell is being heated.

Seven. Boring and top nosing. This is done by a 24-inch lathe, fitted with a turret, into which is fitted "roughing" and finishing boring tools and a collapsible top for threading the nose. On this machine many shells can be bored and nosed in ten hours.

Eight. Finishing the body. Done on the 24inch lathes with tape attachments fitted with special cams; turrets are fitted to these machines.

Nine and Ten. Wave ribbing. Done by an attachment fitted to a 20-inch lathe which holds four tools operated against the cams to make the waves. The shell is undercut also on this machine.

roughed out for finishing lathes. The shell is now ready for government preliminary inspection.

pletion.

much in the public eye, and are in a class by them- are finished, riveting is done by a hammer running selves. My remarks therefore will cover what I saw 2.800 revolutions per minute. The shell now looks a substantial piece of work.

Eighteen. The fitting of brass, or steel, nose sockets, after hand tapping the thread and turning socket to shape. These done, the shells are ready to varnish, after washing and brushing.

Nineteen. Varnish, pumped into the shell. When even temperature; shells are thoroughly baked in six hours.

Copper banding. Bands pressed on by machine; pressure, 2,000 pounds.

brought to gauge; turning tools passed over the

Twenty-Two. Marking of shells. The shells are marked "4.5, How, V. L. F. S.," with name of maker and date.

Twenty-Three. Shells having been examined by firm's inspector, are subject to rigid government oversight. When finally passed, the shells are sent to paint room.

Twenty-Four. Painting. Painted first, white, then given an over-coat of yellow, which indicates that the shell is of the high explosive kind.

shells are boxed; two in a box; the boxes are supplied. A box-full weighs roughly, 75 pounds. The where.'

The tool room for a shell finishing plant is of special interest. This modern tool room of Cummings' has the following machinery installations: wet grinder, power hack saw, 9 inch special drill, inch crank shaper, universal milling machine, with lishing so great and so needful a work in Britain. these and expert workmen the firm made all the special tools for the shell finishing plant. Some of these are very complicated and yet quite as good and serviceable as the tools imported by some firms -of this Nova Scotia firm it may be said it has proved itself equal to the occasion.

That Canada, and possibly more particularly Nova Scotia, has participated largely in the production of shells, big thanks are due the shell committee, recently dissolved. The general public, I fear, have failed to recognize the magnitude of the work they accomplished. Indeed from what has appeared in certain newspapers one was taught to believe that the committee constituted a sorry crowd. The censures hurled at the committee, and the innuendos amounting almost to charges of graft, are but samples of the lengths to which petty people actuated by jealousy, and pettifogging partizan politicians, impelled by spleen, will go.

square thing neither by the imperial government in the early part of next summer this country would

flashed back was, in substance, "Go ahead." The Seventeen. Finishing base and making to weight, committee not only did so but, finding that they could be produced at a less price than the imperial authorities agreed to pay, gave them the benefit of the lessened price—due to the committee's activities. "There is little in that," so many say. Is there indeed? Supposing the contract, having been duly entered into, and the committee found the dry shell is ready for baking in a hollow wall oven shells cost more than the contract price, would the which, once heated, will keep continuously, at an imperial authorities have paid, without demur, the extra cost? I make no answer. The committee supplied to the imperial authorities, up to the time of dissolution, shells at twelve to fifteen million dollars less price than had been mutually agreed upon. Twenty-One. Turning copper bands. Shells and that is not all. I believe that had it not been for the shell committee and especially the diffusiveoptimism of that big Nova Scotian, Colonel Cantley, the larger portion of the order for shells which came to Canada would have gone to the United States. I believe I am in a position to say, notwithstanding the assertions of a contrary nature, that the price charged by and given to Canadian makers of shells is very much less than given to makers across the line, and in some instances less than paid British makers.

If we take the saving effected by the making of shells in Canada, instead of in the United States, and Twenty-Five. Boxing. When paint is dried, add to it the sum already stated, as saved by the committee in another direction, we may place the entire saving to the imperial authorities at all the shells are now ready for their momentous journey way from thirty-five to ffty millions of dollars, and over the sea to the other side and thence to "some- even that is not all that Britain owes Canada's shell committee, and General Sir Sam Hughes who brought it into being.

To the Canadian shell committee, I make bold to say, Lloyd George is indebted for the ground work of the system adopted by him in the buildtwo 18 inch lathes, 30 inch drill, cutter grinder, 24 ing up of the munitions department, none accomp-

> Women are coming to the front in Britain these days, surely. Recommendations are made by the British Munitions Labour Supply Committee that women aged eighteen and over shall be paid £1 a week for work in engineering establishments, that women who do work customarily done by fullyskilled workmen shall be paid the men's time rates and receive same overtime, night shift, Sunday and holiday allowances, and that the men's conditions shall apply in the case of women doing piece-work or working on the premium bonus system.

Mr. Arthur Henderson, President of the Board It has been hinted that the committee did the of Education, speaking at Covent Garden, said that nor by the Canadian manufacturers. This betrays be in a position that nobody, even twelve months how much certain newspapers and some people do ago, would ever have thought we were likely to be not know. Had the members collectively had itch. in. So far as munitions of war, the armies we were ing palms then, today individually they might have able to place in the field, and officers, were conbeen millionaires. A strong assertion, you say. Yes, cerned, by then we should be in such a position to and I am prepared to repeat it. When the imperial achieve that satisfactory result which all desired government asked the shell committee if Canada to see. But we could achieve this result only by could supply a given number of shells, the committee maintaining the spirit of unity and hopefulness answered "yes" and named a price. The reply which would keep us free from pessimism.



Synopsis of Coal Mines Regulations.

COAL mining rights of the Dominion, in Manitoba, Saskatchewan and Alberta, the Yukon Territory, the North-West Territories and in a portion of the province of British Columbia, may be leased for a term of twenty-one years, renewal for a further term of 21 years at an annual rental of \$1 an acre. Not more than 2560 acres will be leased to one applicant.

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

In surveyed territory the land must be described by sections of

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

Each application must be accompanied by a fee of \$5 which will be refunded if the rights applied for are not available, but not otherwise. A royalty shall be paid on the merchantable output of the mine at the rate of five cents per ton.

The person operating the mine shall furnish the Agent with sworn returns accounting for the full quantity of merchantable coal mined and pay the royalty thereon. If the coal mining rights are not being operated, such returns should be furnished at least once a year.

The lease will include the coal mining rights only, rescinded by Chap. 27 of 45 George V. assented to 12th June, 1914.

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

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

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

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"Don't come to us when it is too late and say, 'We can't go on. You've spent all your money on free libraries and parks and gramophones and beer and chocolate and furs. There isn't enough left to carry on the war.' "—Daily Express.

TURKS' BAGS OF GOLD.

"A soldier at Bart's Hospital just back from the Dardanelles says that the Turks carry their money about with them in little bags, and that when captured the first thing they do is to offer this little bag of gold as a good will gift."—Weekly Dispatch.

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A. C. three phase, 60 cycle 2200 volts, slip

Bull wheel, 9 feet in diameter, with brake, etc. Double reduction gearing: 1st. set machine cut helical teeth, second set plain moulded.

Bed Plates of steel joists, suitable for surface

This Engine was never erected and is in the original shipping cases. MARITIME COAL, RY. & POWER CO., Limited. Joggins Mines, N. S.

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