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Pictou.

Cape Breton. \* Inverness

New Series Vol. 9 No. 14

January 23rd, 1907

STELLARTON, N. S.

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SYDNEY, NOVA SCOTIA.

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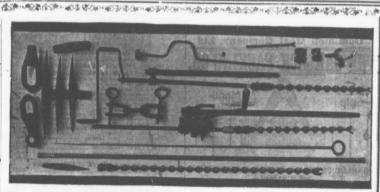
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On and after Thursday January 15 1907 trains run daily, Sunday excepted,) as follows:— TRAINS LEAVE STELLARTON-

TRAINS LEAVE STELLARTON

No 144 Nixed for Hopewell

No 70 Mixed for Trenton

70 Mixed for Trenton

18 Express for Hallfax, and 81. John

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19 Express for Picton Landing

10 Mixed for Picton

10 Mixed for Sydney

10 Mixed for Picton

11 Mixed for Picton

12 Mixed for Mixed Mixed

12 Mixed for Picton

13 Mixed for Picton

14 Mixed for Picton

15 Mixed for Picton

16 Mixed for Picton

17 Mixed for Mixed Mixed

18 Mixed for Picton

18 Mixed for Picton

19 Mixed for Picton

10 Mixed for Picton

10

TRAINS ARRIVE AT STELLARTON
TO Mixed from Hopwell
T8 Mixed from Peton
18 Express from Peton
18 Express from Peton
18 Express from New Glasgow
19 Express from New Glasgow
19 Mixed from New Glasgow
19 Mixed from New Glasgow
10 Mixed from Peton
10 Express from Halfars
10 Express from Halfars
10 Express from Halfars
10 Express from Red Glasgow
10 Express from Peton
10 Express from Red Glasgow
11 Express from Red Glasgow
12 Express from Red Glasgow
13 Express from Red Glasgow
14 Express from Red Glasgow
15 Express from Red Glasgow
15 Express from Red Glasgow
16 Express from Red Glasgow
17 Mixed from Peton
18 Express from Red Glasgow
18 Express from Red Glasgow
18 Express from Red Glasgow
19 Express -TRAINS ARRIVE AT STELLARTON

B.I. appress reun rs Jonn and Halifax

All trains are run by Atlantic Standard time Twenty for it wild-night. Moncton, N. B. JAN, 9th. 1997

NOTE: A proposal train (with Burifet Sheeping Gar attached will let a proposal train (with Burifet Sheeping Gar attached will let a proposal train (with Garting Kappan and Sydney Mines after artival of No. 38 (Maritime Kappan) from Montreal.

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ONE A well-known mining man recently finished an Inspection of the ANTHRACITE coal fields of Pennsylvania. When ask-

ed what impressed him most, he said
"The acidity of the water, and the fact that of all the pumps I saw there two out of three

of all the pumps I saw there two out of three were Jeanesville Pumps."

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-LICENSES TO SEARCH-

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

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minerals in proportion

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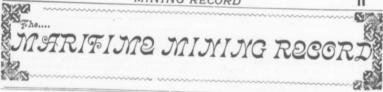
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Vol. 9, No. 14. Stellarton, N. S., January 23 1907. **New Series** 

PROVINCIAL EXAMINATIONS, 1906.

As stated some months ago, the Record made ap- compass? plication to the Board of Examiners for the answers returned to the questions, at the examination, by a certaln unsuccessful candidate. The papers, very curiously, could not be found. We have waited in hope that they might turn up, but as they are likely lost for good, we must be content to give the answers of one of the successful Candidates. There were many who failed; perhaps these answers will be of service in showing where they came short. Can any reader suggest improvements in the answers.

### MANAGERS.—SURVEYING.

Ques. 1.—The following survey, which was survey-West variation, North 30 degrees West 6 chains; North of the cross entry, and what will be the bearing of this 70 degrees East 10 chains, North 30 degrees East 5 connecting roadway? chains; North 25 degrees West 8 chains, under what Ans. 5. bearings must the survey be plotted on a plan whose delineated meridian has 15 Degrees of West variation?

Ans. 1.—Reduce bearing with a meridian of 24 deg. of West variation. bearing with a meridian N. 30 deg. W. 6 chains of 15 deg. of West variation. N. 70 deg. E. 10 chains. N. 39 deg. W. 6 chains. N. 61 deg. E. 10 chains. N. 30 deg. E. 5 chains. N. 25 deg. W. 8 chains. N. 21 deg. E. 5 chains. N. 34 deg. W. 8 chains,

Ques. 2.—How is the direction of a new road set out from an existing road, if a magnetic bearing cannot be obtained.

The angle which the new road will make with the existing road is first ascertained by the pro-tractor from the plan. The dial is then fixed at the point where the new road is to commence underground and the angle set out by the Vernier on the dial, a sight having been taken along the existing road and the new road set out at the angle obtained from the plan.

Oues. 3.—A slope dip 17 degrees is 1250 yards in length. Explain how and where you would sink a shaft to strike the face of slope; also tell how to find depth of shaft.

Horizontal distance Ans. 3 Cosine of angle x slope distance = Horizontal distance to sink shaft Sine of angle × slope distance = Depth of shaft.

Ques. 4.-Why is the East marked to the left of the North, and West to the right of North in the miner's

Ans. 4.--When taking a sight with the compass the North and South of the dial are always placed in the line of sight, the direction of the needle is the magnetic meridlan and is either to the right or left, and as in sketch the line of sight is 20° to the right, that is to the East as the East is to the right hand of the North and South line, therefore the bearing of the line is 20 N. E. but if the letters E. W. were put in their proper position it would read N. W. which would be inaccurate.

Ques 5.- The main entry from the bottom of the shaft runs due North 3600 feet. A cross entry is started due East at a distance of 200 feet from the face, and driven 2,465 feet. What length of roadway started 250 ed by an instrument whose needle had 24 degrees of feet from the shaft will be required to connect with face

3150) 24650 (.78254 22050 26000 25200 8000 6300 17000 15750 12500

Courses.

12600 Oues. 6.-Plot and traverse the following courses of a survey to a scale of 100 teet to the inch:

Distances.

0		200 fee	t	3648	-0.0-6
16	N. 5 Deg. W.	100 "		7156	.984808
ч	N. 85 Deg. E.	250 "		6195	996193
ıt	S. 5 Deg. W.	100 "		7156	.087156
W	S. 85 Deg. E.	200 "	.00	6195	,996195
	S.	125 "	.99	0195	.087156
n		110 "	08	4808	
ît	N. 45 Deg. W.	75 "		7107	.173648
h	S. 10 Deg. W.	110 "		3648	.707107
	S. 5 Deg. 30' W.	511 "	.17	5846	,984808
	N. 80 Deg. W.	2841 "		1808	.995396
	Ans. 6.	2042	,90	tone	.173648
	N. 10 Deg. E. 200 feet.	Northing 196,96	Southing	Easting 34.72	Westing
	N. 5 Deg. W. 100 " N. 85 Deg. E. 250 "	99.62 21.80		249.05	8,72
	S. 5 Deg W. 100 "		99.62		8.72
	S. 85 Deg. E. 200 " S. 125 "		17.44	199,24	
	S, 80 Deg. W. 110 "		125.00		100 00
	N. 45 Deg. W. 75 **	58.08			108.33 53.03
	S. 10 Deg. W, 110 " S. 5 Deg. 30' W. 511 "		108 .38		19.10
	N. 80 Deg. W. 2841	49,40	51,32	49 10 110	4.94 280.17
		420,81	420.81	483.01	489 1

Ques, 7 .- Describe the process of levelling and fill up the columns for rise and fall and reduced levels, and also work out the average inclination per yard and datum line 30 feet above horizontal line :

	B. S.	T. S.	Length	
I .	1.85	10.85	100	
2	8.45	1.17	100	
3	3.65	11.02	100	
4	8.52	.67	100	
5	3.34	9.94	100	
6	.89	8.03	100	
7	10.72	3.50	100	
8	2.55	8.55	100	
9	1.35	8.43	100	

Ans. 7 .- Levelling is the finding of a line parallel to the horizon in order to determine the height or depth of one place in relation to another, there are two methods of levelling, the trigonometrical and the geometrical, The latter is the most accurate and consists of constructing a horizontal line with a spirit level fitted to a telescope and making vertical measurements to the points required from the horizontal line.

Sight	B. S.	T. S.	n:	F	Level datum	
I			Rise	Fall	line 30 ft.	Hor
	1.85	10.85		9	21	100
2	8.45	1.17	7.28		28 28	100
3	3.65	11.02		7.37	20.01	100
5	8.52	.67	7.85		28.76	100
5	3-34	9.94		6.6	22.16	100
	0.89	8.03		7.14	15.02	100
7 8	10,72	3.50	7.22		22,24	100
8	2.55	8.55	,	6	16.24	
9	1.35	8.43				100
	33	0.43		7.08	9.16	100
			22.35	43.19	9.16	900
				22.35		
				Married Street, Street,	33 - 9.16 - 90.84	

Total fall 20.84 20.84 feet x 12 ins. = 25008 inches.

900 ÷ 3 = 300 yds. 300 yards = .8336 inches per yard. MANAGERS. -GEOLOGY.

Ques, 1-What is Geology? Ans 1.—The science of Geology in its widest sense comprises all that is known concerning the constitution and history of our globe, It is that department of science which treats of the structure of the earths crust in its relation to its mineral products.

Ques. 2.—In what way is Geology of use in the art of mining?

ins, 2-The science of Geology treats on the disposition, formation and occurance of coal or any other mineral. The shape and character of the coal or mineral and their accompanying strata, and the nature and the history of the adjacent formations. It is of great use in the art of mining.

Ques. 3 .- What means have we of arriving at a knowledge of the structure of the earth?

Ans. 3-By a thorough knowledge of Geology we can arrive at the structure of the earth. The earths history is divided into geological eras, ages, periods and epochs, and nature has recorded these in seperate rock

in search of coal, when it cannot be shown deficitely whether there is coal or not under an estate.

Ans. 4.—Searching for coal in an unprospected region should first be done in a general way and secondly in a

more particular manner. I would first go over the ground carefully, noting all prominent features and get all the information possible regarding exposed rocks, and if I found evidence of coal bearing periods, either on the estate or the adjoining estate, I would then decide on the best location of points from which a general approximate survey of the tract may be triangulated.

Ques. 5.-What is meant by the terms roll, lype, stratified, unconformable, anticlinal and synclinal?

Ans, 5,-Roll means that the roof comes down and takes the place of the coal or the floor comes up and does the same thing or in some cases both rhenomena occur together.

Lype means a slippery parting in the coal sometimes ing right up into the strata.

Stratified means when strata has the appearance of having been deposited in layers one above the other by aqueous action.

Unconformable means when strata inclines upon one nother at a different angle.

Anticlinal means when strata dip in opposite directions from a ridge or line of elavation.

Synclinal means when strata dips toward a common r. line of depression,

Ques, 6.-What are faults? How would you proceed to prove a fault? Describe any one you know

Ans. 6-Faults is the term used where the coal is cut off or thrown up or down. If I struck a fault and it layed from me on the top I would expect to find it up in the roof, if it layed to me in the head I suppose I would dig down to get it. If my seam was pitching it would favour me because I would drive against the pitch and get my seam either way or I could bore a hole and locate the seam by that means without going to the expense of driving through until the hole was bored. I have seen a good many faults in different mines. Taking one as an example. I seen us run up against a stone face cutting the coal out altogether except about one foot on high side, we turned up the hill to get the coal and got good coal for about 6 or 7 feet, when the coal was cut out again and raising right up into the roof so we levelled in the bottom and got good coal.

The Hancock Cons, Copper Co., Hancock, Mich. has recently ordered from the Sullivan Machinery Co'y, a hoisting engine to be used for sinking the principal shaft and for permanent service, after the shaft is completed to ite final depth of 4000 feet. This hoist will be of the first motion, heavy duty, Corliss type, with engines 24" diameter by 48" stroke, and two loose drums, 8 feet in diameter by 9 teet long, driven by band friction clutches, and designed for hoisting in balance. drums will be grooved for 11" steel rope, and the maximum hoisting speed under full load will be 3500 ft. per minute. The clutches and band brakes will be steam operated, with automatic compressed air substitution in case the steam pressure falls below a given point, owing to accident or for other reasons. This hoist will be furnished with the Sullivan patented automatic throttle systems, rock series, rock groups and rock formation, clasing device and interlocking automotic stop. By off at a fixed distance from the top of the shaft, allowing the engineer to bring the cage to a stop at the desired point, by use of the brake. In case the engineer, for any reason, fails to set the brakes, they will be set automatically at the proper point, to prevent an overwind.

### 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 application.

Single Capies 5 cents. Subscription \$1.00 a year -1-

### R. DRUMMOND, PUBLISHER.

STELLARION N. S.

January 23 1907

'A week or two ago a Cape Breton paper contained a despatch from Louisburg to the effect that the contract between the Dominion Coal Co. and the New England Gas and Coke Co. had been renewed for a period of two years. If at times the 'headlong activity' of the C. B. papers is responsible for over fertile imaginings, the Record is happy to be able to say that while the statement is not absolutely correct in detail, in this instance there has been no exaggeration of the main fact, namely, a renewal of the contract. Indeed, it is the other way. It may not be said that a formal renewal of the contract for two or any number of years has been entered into, petency or service, has served one year at repair work but the Record is in a position to say that the Everett people have accepted the Coal Company's offer to supply coal for a period of three, or possibly four years at a rate named. The Record attaches great importance to this new arrangement as it removes any probability of slack coal being a drag on the market, and a cause of anxiety to the operators. Holders of Dominion stock must also deem it of importance, as it means an advanced price for about an eighth of the total product of the company.

The Montreal Star is probably not far astray in the suggestion that three directors of 'Steel' are chiefly reponsible for the unbending attitude of the Steel company in the now famous Steel-Coal dispute. The Record has it, from one who had rare opportunities, within the past ten days, of getting the views of individuals interested in one or other of the companies, or both, that the disposition is towards an amicable arrangement. While a speedy peace is hoped for there have, in reality, been no 'approaches' within the past fourteen days. If the lawyers on the Steel side are as confident, of being wholly in the right, as are all the lawyers on the Coal side, it should not be wondered at if two or three of the Steel directors 'keep a stiff upper Reports and rumors aside the general beliefthough perhaps unexpressed, must be that the dispute will never come to a 'head', that is, be carried through the courts. How else can the support that both stocks are receiving be accounted for? They are not, surely, being supported in the belief that a favorable verdict in a law court, to either side, will hasten dividends. The Records opinion is that if people generally be-lieved there would be a big long law suit the stock of both companies would take a big tumble.

The cold weather of last week may have had a good opposite. The boxes were stiff to move, and the men were slow to turn out.

### STATIONARY ENGINEERS.

The Commission appointed to enquire into legislation as affecting stationary engineers, began its second meeting in Halifax yesterday. There were delegates present from many parts of the province to give evidence. The following are some of the changes which the Commission, so far, will likely suggest. The sections are from the Regulation of Mines Act. Printed copies of proposed changes have been distributed:

"76 No person shall be eligible for examination for

third class certificate unless;

(a) He is at least eighteen years of age; and

(b) He must be the holder of a fireman's license, and shall have served 12 months at mechanical work in a machine shop, or has served for 12 months as engineer, pumpman, fireman, oiler or locomotive engineer.

No person shall be eligible for examination for second-class certificate of competency, unless;

(a) He be at least 21 years of years of age

And is the holder of a third-class certificate of competency, and has been employed as a third-class engineer for not less than two years.

No person shall be eligible for examination for a

first-class certificate of competency, unless:

(a) He is at least 24 years of age

(b) Is a holder of a second class certificate of comon mining machinery, and has for 12 months been in charge of an engine of not less than 250 horse power.

IV. EMPLOYMENT OF ENGINEERS. Every engineer in charge of a steam plant of not less than twenty five and not more than five hundred horse power, shall be the holder of at least a third-class certificate of competency, or a certificate of service equi-

valent thereto

In (b) section 76 the word 'and' after license, should to make sense read 'or', for certainly the statute should not give preference to a fireman without a certificate over one having a license. In (b), sec. 78, the word 'machines' should be machinery. The chairman of the Cemmission objects strongly to a 'twenty five' horse power plant calling for a man in charge. He maintains that at a small colliery a man in charge of the plantas chief engineer-is wholly unnecessary. The manager who has a certificate is quite competent to discharge the duties. A manager's technical knowledge is put to a severe test, in the 'Mechanics' questions, required to be answered before a certificate is granted.

Coal is in fairly good demand at the present time. The Nova Scotia Steel & Coal Co. are sending a cargo of 5,000 tons to Portland, Maine. This is not for a railway, but for customers along the River. The supply at St. Lawrence out-ports is short this season. Indeed it is said that,—with the exception of one company which has a bigger stock than usual—stocks were seldom so light at this season in Montreal. The Intercolonial Coal Co. is sending coal all rail to Montreal. The N. S. S. & Coal Co. sent a thousand tons of coal to Italy last week, the first cargo that this Company ever sent to a continental port. The coal was not sent as a venture but was bought and paid for by the shipper. The steamer taking the coal also carried pitch as part cargo. Some of those closely connected with the coal trade are of opinion effect on coal sales, while the effect on outputs was the that shipments for 1907 will be phenomenal, while others do not look for a greater than the natural increase, 10 per cent.

### - Rubs by Rambler.

Some people may be under the impression that the only reason the Halifax Herald has for printing its big headlines in red ink is to make the paper more striking and show that it has applianper more striking and snow that it has applian-ces, at command, for printing in two colors at once. Not at all. The adoption of red head lines by the Herald marked its conversion to soc-Red, whether in a flag or neck-tie, or newspaper, is a symbol of socialism. They tell us that perverts are the biggist zealots, and the Herald is no exception to the rule. In its social-Herald is no exception to the rule. In its social-istic ideas it is going daily from strength to strength, which in vulgar phase means, going one better. Since the day it swallowed the pill it has kept on spruging. Though the other con-servative papers don't display the red symbol it servantee papers don't dispiny the red symbol in is evident, to many observers, that the conserva-tive party is to put forth every exertion to win the labor vote at the next general election. Under the belief that a majority of the workingmen der the belief that a majority of the workingmen are socialists, a socialistic programme may be theirs. Wittingly or unwittingly the Herald has been, during the past months, doing its utmost to sow the seeds of discontent. Where grievances to sow the seeds of discontent. Where grievances were unknown it has vigorously attempted to show that they are in existence. My own opinion is that the Heralds headlines, at least, if not its writings, have not been in the best interests of the country. We have been told that workingmen of Nova Scotia are not reaping the fruits of their toil as are the workingmen of New Zealand and, yet, when it comes to the proof, it is found that during recent years the wages of New Zealand workmen have not increased more than ten per cent., against the at least, twenty per cent in Nova Scotia. It is a remarkable thing that at a time when trade is very prisk, and wages higher than ever, certain papers should try er can ever, certain papers should try to The Herald in introducing the speech of Mr. make it appear that the workingmen never had Barclay, of New Zealand, on his motion favoring more cause for complaint. The burden of the nationalization of utilities says—"It will be seen ey is that the workingman is entitled to all he that the mover, Mr. Barclay, deals in a most inproduces, but those who utter that cry are very structive way with the zealand abor conditions careful not to tell us what the phrase really and the "Menace of the trusts." From this I means. And it is hinted that the reason why the thought on reading on I would find where the means. And it is minted that the reason why the thought on reading on I would find where the workingman does not get all he produces is due trusts had been soundly flayed. Instead I find to the fact that capitalists, trusts, and combines they were commended and that Mr. Barclay has lieve that where no combines are there are the trusts had been a success; workingmen contented, happy and getting, preworkingmen contented, happy and getting, pre——It was sometimes argued that the govern-sumably, all they produce, and there are no com-—ment could not control a business or undertake bines in New Zealand. And yet, strange isn't it, the workingmen don't get all they would like to get, in that workingmen's paradise. The phrase "Labor is entitled to all it produces," is becoming too modest a cry. Soon it will be changed to "Labor is entitled to all that is produced," wheth-"Labor is entitled to all that is produced, wheth—ation of persons who entered into a combine and er by farmer fisher or founder. In New Zealand undertook to supply and control a particular artering the same and last fall to induce the gov-lele of use or of necessity for living. The trust erment of that country to go into the provision system has been carried on with great success in

Therefore being a workingman he is entitled er. Therefore being a workingman he is ensured to all he produces by whatever instruments. He produces eggs through the instrumentality of his The eggs are his, and what does he go and hens. The eggs are his, and what does he go and do? Puts up the price. He by this action at once, according to the Herald's logic, becomes a comaccording to the Herdin's logic, occomes a com-binester and his business must be taken from him and run by the state For the good of whom? For the good of non producers of eggs. For the good of non producers of eggs. Follow this plan of nationalizing everything a bit further, and where do we land. I don't know. Some-body might tell us. And then the state is asked to milk cows. Why? Because the price of milk has gone up. That must not be tolerated. Advance in price of any article, always excepting vance in price of any arcicle, always wages of course, must be put a stop to. The government must take over all businesses. dry' prices have gone up, therefore the sooner governments become laundrymen the better. And if the people are not to be imposed upon by paying double for a day's washing the sooner governments become washerwomen the better. coal barons were not in a combine coal would not have increased so much in price! The farmers must be in a gigantic combine, particularly aers must be in a giganiac comoine, paracunariy a-round North Sydney, for there the price of milk has advanced of late years from twenty to thirty two cents a gallon. Sly dogs farmers who would have suspected that they had formed a combine. But the proof is there in the advance in milk. The coal barons, it is said, have increased the price of coal fifty per cent. and some howl furiously; the farmers have increased the price of milk sixty per cent, and the Herald is mute. The latest I have read is of an advanced socialist who proposes that the governments should run the proposes that the governments. By George, newspapers in the public interests. By George, that would put the Peter upon us. We would ut have socialism but anarchy. ernment takes a large hand in running the newspapers, and yet the people are not happy. Its so awfully hard to please some folks.

that the mover, Mr. Barclay, deals in a most ined his plea for state operation on the ground that

an industry and do it as effectively as private enterprise or private companies or individuals. But that argument had received its death-blow from the history of the American Trust. The American Trust, generally speaking, was a combination of persons who entered into a combine and ernment of that country to go into the provision system has been carried on with great success in business, and sell milk, butter, poultry and its America, and there could be no question that it products. For why? Oh, because the farmers was a most up-to-date, efficient, and in many dearer than in former years. If anyone is ensesy the most economical system of doing busititled to be called a workingman he is the farmif a trust or combination of private persons could

article of commerce to their own great profit, and to-day, we have no misery as a consequence of very often to the benefit of the consumer, what poverty, honest poverty. There may be misery was there to prevent a State such as New Zea- from poverty, but that poverty is not partly a hand taking up the same position? Only it would consequence of high rents, or dear food, but is the have a stronger position than the trust, it would fruit of ill doing There are no great cities in have greater sources behind it, and, what was New Zealand-in great cities centres of poverty more, it would have a purer and better objective may be looked for-therefore there should be no necessaries of life at a price within their means, and so conducing to the increased happiness and that country which boasts of having the most comfort of all. If a trust was able to carry out progressive legislation in the world. beneficially a commercial operation of this nature, and to make a large profit out of the transaction, why should not the State take in hand the supplying of its people with such articles as the trusts dealt with at a fair price? If they adopted the principle with regard to the various commodities dealt with by trusts-and there was no doubt the principle would be adopted—why should the line be drawn there? Why should they not go further and say that the rents were exces sive? That was one cause why many people were engaged in a perpetual struggle against poverty, misery, and unhappiness, and they should say they would do their best to remove that state of affairs.

That is what Mr. Barelay said of trusts and I cannot see how the Herald can possibly say he looked upon them as a "menace." In his plea for In his plea for nationalization it is most remarkable that Mr. Barclay made no allusion to the coal mines, which, we have been often told of late, are being run by the New Zealand government. If they are being run successfully what need to go to the U S. and select the trusts there as an argument for state ownership. Instead why not point to the cheap coal the people are now procuring as a result of the government having gone into the co I mining business. There being no allusion whatever to coal mining, one is forced to conclude that it has not resulted as its projectors anticip-The Herald will please take note that while it hates combines especially coal combines, -like sin-the author it quotes with approval has rather an affection for them.

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agitator that 'Murder will out.' hid that will not be revealed and that the truth. like murder will out. All the chief actors in the have a peep behind the scenes, but he did it never- pose to meet it by showing that no effort ha theless. Notice what he says towards the con-been spared to place our mining methods abov

enter into a world-wide business and control an ient for them. I make bold that in Nova Scotia. -namely, the supplying of the people with the great poverty, no great misery. And so after all is said it seems there is still room for reform in

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"Hundreds of thousands of tons of coal are being lost in this province periodically through ignorance. Coal is costing too much to mine in Nova Scotia, frequently through ignorance; coal is costing the people too much, partly through ignorance.

"There is only one thing that menaces our future, that is ignorance; there is only one possible remedy: there is only one possible way to meet the natural prejudice of the old fashioned . . . miner who scorns the idea of improved methods,

based on scientific investigation.

The author of these, my two texts must, have been seized with a fine frenzy in penning them, The two texts bear on the same thing viz: the ignorance of our coal operators and their prejudice against improvements and scientific investigation. In view of recent history it is surprising that any Nova Scotian can be pointed to who is persistent in the declaration, that our operators and miners are ignorant, and, what is more reprehensible, are unwilling to learn and be taught. It is not true that our operators and miners are ignorant; it is not true that they scorn improve-ments and investigation. The history of coal mining in Nova Scotia during the past 12 years is a history of progress in improved methods of mining and in improved appliances. The latest forms of motive power, the latest and best designs in mining machines have been sought for and obtained. The assertion can be made emphatically that we have in Nova Scotia as modern, as scientific, and as, on the whole, thoroughly equipped mines as in any part of the world It has been recently asserted by a cheap coal And further, we say, no section of country in any itator that 'Murder will out.' He might have part of the world has spent so much money in a enlarged on the subject and said there is nothing effort to get the best of what is going in mining appliances as has Nova Scotia. Men have been brought from Europe and from the United States cheap coal agitation are fond of dangling New and not one of them could point out any radical Zealand before our eyes. There they have state defects in our system of mining and preparing owned coal mines and consequently everybody is the coal for market. Nova Scotia has not sufhappy. So persistently has that country been fered, except in her self esteem, pride, from the held up that some actually began to believe that lack of men with technical training, for she was in it there was nought for workingmen but peace able to procure by aid of money the best brains and plenty. Mr. Barclay, quoted previously, may the other countries could supply. As the charge not have intended to lift the curtain, and let us of ignorance and prejudice is a serious one I pro clusion of his quoted remarks. He asks the gov- reproach. I will confine myself to what one comernment, parliament rather, to declare that rents pany—the Dominion Coal Co.—has done in this are excessive, and that these are responsible for respect. First of all, to assist the then Genera the perpetual struggle against 'poverty, misery, Manager, there was brought from Britain a man and unhappiness. Fie, Mr. Barclay. How can with high credentials. The benefit of all his exyou say so, seeing we have so often been told that perience was at the company's command. If he n New Zealand there is neither poverty or rich-showed gifts greater than the native miners. I es, but that all have food and clothing conven-will not say, I ought first to have mentioned that

there came with the Dominion Coal Co. as chief ing us that the industries of Nova Scotia are be he could not see wherein he could much improve on the systems in vogue. Then came Mr. Ludwig, who would be the last to say that he was handicapped either as to output or the reduction of costs by failure of the company to act on his suggestions. Next came Mr Conners who had been an Inspector of mines in the United States He could not improve on the method. After him came Mr. King. Be it noted that Mr. King was recommended to the Dominion Coal Coy, by the all these men with one exception came from the land that is held up as that in which coal is produced most cheaply. All these men were called because they were highly recommended, and yet with all their knowledge of modern methods, with all their experience in the getting of cheap coal in the U. S. they were not able to show how it could be produced a cent a ton cheaper than our own Nova Scotians were producing it. These men were all either technically advanced or rich in experience. If then, these men could not give our natives big pointers, one of two things must follow namely, either education is not essential to successful coal mining or that our men are not open to the charge of ignorance. But the above named do not complete the list of those ment owing to the high price of coal. If they who have been asked to advise the company. A cannot do this, perhaps one or other may tell us year or so ago one of the most reputable engin why it should not hold its peace—on the subject eers in Britain was called upon to criticise the of coal versus crippled manufactures. company's operations and make suggestions.
What did these amount to? To little. There What did these amount to? To little. There

On a former occasion I asked what might the was a suggestion as to adopting longwall in a price of coal at the present time be were it not section of one mine, that was about all, and the that the companies, by selling coal cheaply in suggestion when acted upon was found unsuit-large quantities, in the St. Lawrence and other able. I am not indifferent to the benefits of tech-markets, were enabled actively to carry on opernical education. It holds for our native mining ations. nical education. It holds for our native mining account may have thought the question men great possibilities. If without high technifoolish one but there was a good deal of meaning cal training they are as fit as men trained in techninin. The Dominion Coal Colis held largely renical schools in Britain or the United States, what might be expected of them if to their natural fitness were added the benefits of a first class technical education.

During the time that Joseph Chamberlain was most active in his preferential tariff, or protection propaganda, and was in season and out of season declaring that Britain was losing her supremacy, and her German export trade dwindling, and her trade generally going to the dogs, the facts the returns of the Board of Trade. were against him. The exports to Germany instead of falling off were increasing and the export trade as a whole was in a healthier condition than ever. With the facts of increasing prosperity glaring

and consulting engineer, a college bred man, and ing paralyzed owing to the high price of fuel. and consuming engineer, a conege orea man, and mg paratyzed owing to the mgn price of rues. one who had attained a high position in the Never in her previous history, never in the days United States. After the man from Britain one when coal was cheapest, have the industries of was brought from the United States to look over Nova Scotia been so prosperous as at the present the collieries. This was Mr. Job, who had equiptime. Not only are established industries extenthe collieries. This was Mr. Job, who had equiptume. Not only are established industries extended the most modern and 'scientific' colliery in ding their plants; new industries are being start the United States. 'Jobs' mines in the Ohio Valled at many places. A peculiar thing about this ley were far and away the most elaborately cry for cheaper coal is the fact that those most equipped mines in the U.S., perhaps in the world, concerned, those directly engaged in manufactthere may be said to be four industrial centres, In the mainland Amherst, New Glasgow, Halifax, and Truro. In each of these there is a press cry for cheaper coal for manufacturers, and assertion made that industries, in the matter of coal, are being unfairly dealt with No complaint is made by the Halifax Sugar Refinery, or by the Light and Heat Coy, as to prices. And the fact that the capital for a large new industry was speedily subscribed Frick people, the greatest coal producers in the deterrent to the establishment of new industries. affords proof that the present price of coal is no The Rhodes Curry Co., the Robbs, and the other industries of Amherst, are not languishing on account of dear fuel. On the contrary the business of these firms, and of other firms, is rapidly extending. In New Glasgow the several indus-tries are busier than at any prior period, and there is talk of important new industries starting, if not in the town, in the immediate vicinity, In Pictou town there never was and never will be industries until its people realize that outside investment is not the best use their money can be put to or that the chief benefit of wealth to the owner is that he may sit upon it. Will the papers in either of the towns mentioned name a single industry that has been paralyzed or a single contemplated industry hindered in its establish-

sponsible for the increased price of coal. the other way; had there been no Dom. Coal Co. the chances are that the price of coal would be very much higher than it is at the present time. Fiction. No I am stating what I believe to be true. A friend is far more emphatic on the point than possibly I would care to be. He has no hesitation in saying that but for the Whitney legislation coal would be twice as high as it is at legislation coal would be twice as high as it is at present. And the following are his reasons:—
The collieries constituting the Dom. Coal Co. have increased their output from about 800,000 tons to some 3,500,000 tons. The Cumberladd and Pictou County collieries which are not within the scope of the Whitney legislation, but are under the old form of lease have not materially increase. with the facts of increasing prosperity glaring the old form of lease have not materially increasing in the face, nothing daunted, Mr. Chamber- ed their output. It will be admitted that if more lain continued to preach and prophecy ruin. And coal was produced, and sold on the market up to so with those certain few who never tire of tell- a point in excess of the demand that coal would the old form of lease have not materially increasbe cheaper. Ergo, the coal company that producted watered stock. The properties of the Dom. Coal es the most coal is doing the most to keep prices Co. to-day could not be had for the outstanding from increasing. Suppose the Dom. Coal Coy. bonds and stock of the Company. If the Dom. continued under seperate management they could as worth five times ten million dollars, majority of cases have become insolvent. Re- sponsible sourceful as Mr. Whitney was, and with big capital at command he only escaped by a hair. Let those who denounce the 'Whitney legislation' and as cheaply in Montreal as here in Amherst. More than complain of a combine, study out a little what that, Cape Breton coal can be bought at the same rate might have been but for it. In asking them to do as coal that is mined at our own door. this I have the suspicion that the question is superfluous. They have no desire to get at the bot- What is the actual cost of the production of a ton of tom facts. They think more 'capital' can be made coal, and where does the difference between the cost by going it wholly blind.

Suburban The Suburban has been discussing less than \$1,50, the freight is about forty cents, the the coal question for perhaps eighteen months, truckage is about the same. This makes a total of \$2.30. the coal question for perhaps eighteen months. Time and again has it stated that it was well versed on the question, and that it knew whereof it wrote. Everyone was impressed with the disforms one of the little coterie who are engaged in the with the coal companies as well as by the people.

had, as in the case of the Springhill and Pictou Iron & Steel Co. thinks it might need the half of companies, not increased its output—above the twenty million dollars of bonds to develop coal 800,000 tons of ten years ago, what would be the areas, to produce say a million tons of coal year-price of coal in Nova Scotia to-day? If the old ly, should not a property capable of producing at collieries nurchased by the Dom. Coal Co. had the very least, five times that quantity, be rated not to any extent, have increased their output, back to the alleged watered stock of the Dominion They had neither the capital nor theareas. They Coal Co: What does it matter if, instead of three were all mining on limited areas which, under being fifteen million of common, call it watered, the law, were surrounded by "barriers" which stock, there were fifty millions. When did the should not be removed. A former operator whose common stock receive a dividend from the Coal should not be removed. A former operator whose common stock receive a dividend from the Coar mine was secured by the big company has stated Co'y,? Never once in the dozen years of its exthat the old companies could not have come istence—though, from the Steel Co'y, when in the training residence is the coal is the training residence in the coal is the coal is the coal in the coal is the coal in the coal is the coal in the through the trying period between 1893 and 1898, possession, it received one dividend. If coal is under the old arrangement. They would in a high in price 'watered stock' cannot be held re-

Another question to the Editor of the Free Lance, and what the consumer pays for coal, go to? We want an itemized bill. For instance, we are paving \$4,60 a The Free Lance neatly and fairly caught the ton for Cumberland coal. The cost of production is

Where does the balance of \$2.30 go to ?"

play of wisdom on the part of the Suburban, task of trying to inflame the minds of their readers a-Some actually believed that it had taken some gainst the coal operators. The demands for further ingainst the coal operators. The demands for further inpains to arrive at the facts. Those people must formation are as audacious as the mis-statements, as to have rubbed their eyes when they read the follow- the cost of a ton of coal. People are asked to accept have rubbed their eyes when they read the follow- the cost of a ton of coal. People are asked to accept ing in the Suburban of recent date: "We know the bare statement of certain papers that coal in Cumwhy some companies do not pay dividends, and it berland, Pictou and Halifax counties costs as much as is not because they do not charge enough to earn it does in Montreal, while these same papers will not ac-necessary profits. We need to know the facts, cept the statement that quantity for quantity, with we intend to know them, and then to deal fairly quality, coal in Nova Scotia costs less than in Montreal. The Amherst paper calls for an itemized bill. That is To this the Free Lance retorts, "that in order to cheeky; is asking more than a shareholder of a company discuss the question intelligently the Suburban would ask of its directorate. If these papers are told should first learn the facts." And who dare say coal costs to produce in Cumberland two to three dolthat the request of the Free Lance is unreason-lars a ton, they say we will not believe that; give us an able. What foundation has the Suburban for all itemized bill. If they, on the other hand, say coal is its denunciations of the 'combine' and the company produced for \$1.50, it is not in order for us to demand Not even a foundation of straw. The the process by which these figures are arrived at. These frankness of the statement of the Suburban is papers, as it were, have set themselves in array against charming in its innocence. Once it knows the the coal operators, and demand that the operators furcharming in its innocence. Once it knows the the coat operators, and defined that the operators, confacts it intends to deal fairly by the companies, hish the proof necessary to their own, the operators, confined as the present time is due to the lack of and affords proof of the flimsiness of their proceed-panies at the present time is due to the lack of and affords proof of the flimsiness of their proceedpossession of the facts. This is certainly deplor-ings. The News asserts that coal can be produced in able. Had some of us only known that it was Cumberland County for less than \$1.50. That is exgignorance of the facts that was leading the Sub-plicit enough. I will be as explicit and say that of the urban to kick such high jinks we certainly might five hundred thousand odd tons credited to Cumberland have given him one or two to make his position last year, three hundred and eighty thousand tons were look less inexcusable. The Suburban tells us that not produced at a less cost than \$2.75 for domestic coal; to know why the companies do not pay dividends a hundred thousand tons at not less than \$2.50, and Why should the Suburban be so selfish as to keep twenty thousand tons at not less than \$2.00. Further this knowledge to itself. True it has told us that I will say that if there is a man in Cumberland County in the case of the Dom. Coal Co. 'no profits' are who can produce from a mine a hundred thousand tons chargeable to the large amount of watered stock. of coal at a cost of \$1.50 a ton, that man certainly is When did the Dominion Coal Co. water its stock. losing his fragrance in the desert air. If he can pro-At its inception common stock was sold cheap, duce coal in Cumberland for \$1.50 he should be able to but over capitalization is not synonymous with produce it in Cape Breton county for \$1.00, and any

man that can do that can command \$30,000 yearly of James Ross' money. Indeed, I am justified in going further and saying that any man who will guarantee to produce coal for the Dominion Coal Co. at that price will be assured of a yearly salary of not less than \$40-000, and after paying that fair wage the company would be the gainer by about a million dollars a year. There is no wind or bluff of any kind in this statement. Jas. Ross has been looking for years for just such a man and has failed to find him at any price.

### Around the Collieries,

Mr Floyd of the Intercolonial Coal Coy, who had a few days illness in December, was greatly benefited by a trip to New York.

When Fred. cf the Acadia Coal Co's staff is rigged out in full curling costume, the girls get sweet on him, and declare he is the dead image of "Wee McGregor."

Messrs Duggan and Fergie the two new directors of the Dominion Coal Co., returned from Montreal-where they had gone for installation—last Saturday. Both gentlemen are to be congratulated on their elevation. Mr. Ross' hand is visible in the selection.

Night schools are being started at some of the day.

A friend naively puts it :—"I am opposed to any inquiry into the price of butter or eggs because I belong induity into the poor to an agricultural county. A Record reader says "I am to an agricultural county. A Record reader says "I am in favor of increased duty on pipes and metal fittings because I represent a county where these are made,"

There is considerable dissatisfaction, it is said, among the miners of Dom. No. 3 and 4 (Caledonia) among the miners of Dom. No. 3 and 4 (Caledonia) over the shearing question. Taking their cue

Considerable work is still being done overground at the Allan shaft, Some work was done on the new bank head last week notwithstanding the zero weather. A new 300 h. p. Sterling boiler to being put in position. No effort is being made to increase the output of coal at the present time, the chief energies being directed toward development work, in readiness for summer shipments.

There is great rivalry among some of the staff of the Dom. Coal. Co. in the out offices. Up till recently Dom. No. 3 under supervision of the genial Michael held the sceptre. Dom No 2 has stepped in with two at a stroke. The hope of No. 3 is that No. 2 can't keep up that clip.

The Dominion Mining and Smelting Company, has issued its prospectus. The smelter of the company is located at Picton, N. S., and was built at an original cost of \$300,000. The stock of this Company is listed on the Boston curb and is now being offered for sale to the public. The capacity of the Picton smelter is 75 tons of ore daily, and the Company estimates that it can produce pig copper from concentrates at a little over copper this would leave a very large profit. It is intenopened out and there are places for one hundred

There is a possibility that the old McBain seam may be tapped from the present workings at the Vale. It is claimed that the McBain seam instead of being nearly worked out contains a large area of coal which was not thought to be nearly so extensive when the pit was abandoned.

Mr. J. W. Marshall, lately Instructor in mining for Dalhousie schools, has removed from Springhill to Sydney Mines. Mr. Marshall is at present managing the McKay mine recently op-ened. The mine is situated half way between North Sydney and Sydney Mines. There is much work to be done before the mine will be in good shape. By and bye Mr. Marshall will, if we mistake not, make a nice little mine of it.

The Dom, Coal Co's, stores are having great sacrifice sales these days. There never was any-thing like it in C. B. The jews are knocked all to pieces as to prices. Many wonder whether the company intend to continue the stores chiefly on a cash basis or give them up entirely. If these cheap sales continue long the other store-these cheap sales cheap stocks are disposed of,

Grand Sec'y. Moffatt was down having a look at the workings in the Reserve Emery the other mines this winter. So far the following are go-try long wall mines, one of which he had not seen ing :—Dominion—J. C. Nicholson, Teacher; Hub since he left Scotland. The faces are not yet in D, L McKay, Teacher; Reserve, Jas. Connors, shape; part of the workings has been stopped un-til other parts get into line. When this is done cher; Morien, Simon Lott, Teacher. this will make the working easier. from the roof makes good material for building

two collieries are talking of throwing off the three years contract on the 1st of May next. Their plea is that the company time and again has broken the contract during the winter, The men claim that the Company has not fulfilled certain of its promises. For instance: When shearing was introduced it was given out that the men were to get more places. The men claim this has not been done.

The Vale colliery is doing good work these days, better than for a long time back Thursday some 425 tons were hoisted, and development work in the mine is advanced far enough to permit of a daily output of over 400 tons for an indefinite period. Many improvements have been under way for some time. New landings have been established and also new roadways. New landings The system of haulage underground will undergo important changes. The coal from many places will come up the main 'slant' some three thousand feet long. An engine driven by compressed air will perform this service. This engine will be two cents a pound. With the present market price of tablished. A very large body of coal has been ded to secure the ore supply at present from Newfound-additional men. The difficulty will be in handling land. The capital stock of the new company is \$1,000, the coal on the surface as the capacity of the present belts is not over 400 tons.

### AROUND THE COLLIERIES.

The new electric motor has been installed in Dom. No. 3.

Gd. Sec'y. Moffatt visited the Fundy mine last week to enquire into the trouble existing there.

John Nicholson, Overman, Dom. No. 3 has been transferred to No. 1 He is succeeded by Allan McDonald.

D. M. Burchell and John C. Douglas are candidates for the Mayoralty of the biggest town in

Neil A. McKenzie, ex-checkweighman, New Aberdeen, has taken a position with the Equitable Life Assurance Co.

Owing to the heavy rains the latter part of December water has been a source of great trouble to the Dom. Coal Co.

and Caledonia on the 15th. This looks as if the ter of the numerous drills made by this Company. demand for coal was, or is to be, active.

mapping out of a plan of campaign for 1907.

The Emery shaft, at Reserve, will take some little profit. time yet to finish, as part of the necessary material was delayed in getting to its destination.

The Gowrie & Blockhousr Colliery at Port Morien was idle the early part of the month ow-ing to water in the mine. The pumping machinery was not equal to the duty of keeping the mine free.

Alex. S. McNeil, U. M. at Dom. No. 4, received severe injuries on the 10th, inst. by a fall of coal.

The new pump house in Dom. No. 1 is a structure that will be proof against all fires as it is The building is 100 feet long built of concrete. and is 10 ft high.

Manager McKenzie of Dom, No. 2 is so engrossed in his work that he declines civic honors. He was asked by the people of New Aberdeen to stand as councillor but declined.

The Dom, Coal Co. could have made no better selection than Dr. Jakeman as colliery veterinary. He has a love for dumb animals and thus has a double incentive in the performance of his duties.

The Sullivan Machinery Co's. Diamond Core Drill Bulletin just out and to be had on applica-tion is copiously and beautifully illustrated and Dom. No. 3 was put on double shift on the 8th. gives all necessary information as to the charac-

The opinion among well informed people in Messrs Duggan and Fergie, of the Dom. Coal Glace Bay is that the Coal—Steel dispute will nev-Co. were in Montreal last week assisting in the er be ventilated in the courts. People are with Ross in his efforts to have the old price for coal set aside and a new price set which will allow a

> There are those who think that matters are not so smooth at Sydney Mines as they appear on the surface. Some think that the old country miners will make it interesting for the management before very long, while others say that the longer these men are in the country the wiser they become.

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sined,
All the conditions of the specification must be complied with.
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General Manager

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Scaled Tenders, addressed to the undersigned, and marked on the outside "Tender for buildings at Halfas," will be received up to and of a Feedbard are Repair Shop and Planing Mill at Halfas, N. S. Agent at Halfas, N. S. at the office of the Terminal Planing, N. S. at the office of the Secretary of the Department of Railways and Canals, Ottawa, Ort, and at the Chief Enginobatined.

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

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Sealed Tenders, addressed to the undersigned, and marked on the outside "Tender for Staton at Sackwille" will be received up to and including, MONDAY, FERRUARY 4th. 1907, for the construction of a station building at Sackwille, N. B

a station ounting at somewise, N. D.

Plans and specifications may be seen at the Station Master's office
at Sackville, N. B. and the Chief Engineer's office, Moneton, N. B.,
where forms of tender may be obtained.

re forms of tender may be obtained.

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D. POTTINGER Railway Office

Moneton, N. B., 14th, Jan'y, 1907, General Manager

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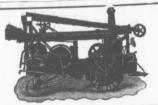
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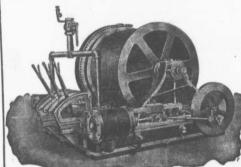
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Homestead Regulations.

A N even numbered section of Dominion Lands in Manitohn or the North-Yean B numbered section of Dominion Lands in Manitohn or the North-Yean B number of the North-Yean A application for entry or inspective much benefit of the North-Yean B number of the North-Yean B n DUTIES, ... A settler is required to perform the conditions under one of the

DUTIES.—A settler is required to perform the conditions under one of two foliology. At least vix months' red-dence upon and cultivation of the land in each year during the term of three years.

(2) If the father the vicinity of the land entered for by such homesteader. The present of the vicinity of the land entered for by such homesteader with the father or mother.

(3) If the extension of the vicinity of the land entered for by such homesteader with the father or mother.

(3) If the such a vicinity of the land entered for by such homestead the requirement as to raisidence may be satisfied by such person resulting the father of the vicinity of the homestead, the requirement may be satisfied by residence upon such land.

Before making application for patent the settler must give six months' mother with the vicinity of the beginning and policy of the vicinity of the

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

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Placer mining claims generally are 100 feet square: entry fee \$5 renew able yearly.

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for a term of weathy years, tones and a set of the laterior.

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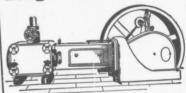
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Read Down  No. 52   No. 54 a, m   p m				WESTBOUND			
		STATIONS.	Read Up				
		Billions				No 53 p m A 3,35	
L 11 10 8 11 16 A 11 35	L 3 55 8 4 00 A 4 13 L 4 18 F 4 30 8 4 43 F 4 55 5 10 F 5 23 A 5 38 L 5 48 8 6 21 8 6 21 8 6 55 8 7 00 A 7 2 p m	TROY CREINNISH JUDIQUE CRAIGMORE CATHERINES POND PORT HOOD GLENCOE MABOU GLENCOE BLACK RIVER STRATHJORNE	ASLAFSFSFLASSSFSL	10 55 10 42 10 57 10 11 10 00 9 42 9 11 8 56 8 2 8 1 8 0 7 4	L	3 27 3 10	

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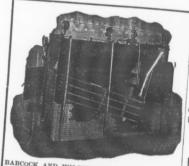
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