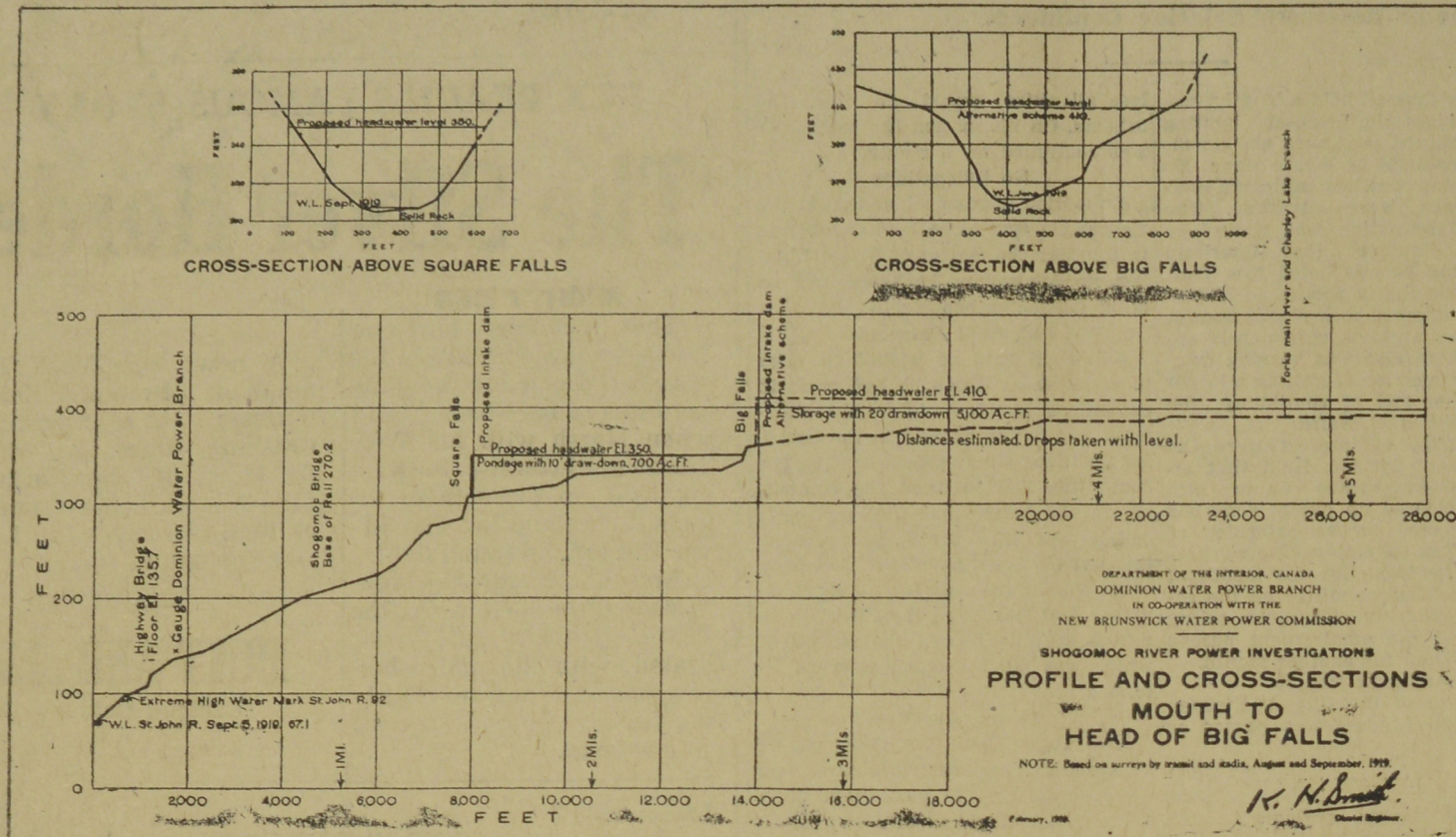


THE MAGIC OF HYDRO



For long centuries the mighty waters of Niagara thundered into their rocky gorge without any effort on the part of man to transmit for his own use the great natural force which was entirely going to waste. Less than twenty years ago the first plant was installed on the Canadian side; now the great province of Ontario is a network of Hydro lines with every village supplied and even the farmer turning his wheels with the electrical energy generated at Niagara. It has remained for the Foster Government composed of far-seeing business men as it is, to take the steps necessary to turn the water powers of New Brunswick into practical use. During their short term they have accomplished all the preliminary work on at least five propositions, finding in all some 103,322,020 kilowatt hours capable of being developed on these streams. The yearly requirement of the New Brunswick Power Company, which supplies St. John and vicinity with all power used in industry and for domestic purposes is less than 10,000,000 kilowatt hours. This means that within a very few years there will be produced at less than half the cost per kilowatt hour to the consumer ten times the power now available in New Brunswick's largest city and industrial centre.

The Water Power Commission, appointed by the Foster Government, has already called for tenders for the construction work required in the development of the Shogomoc and Musquash water powers, and both plants, in the opinion of independent engineers, will be ready for operation by December, 1921, or a little more than a year. Linked up with the Shogomoc development is the Pokiok River, which will also be used to supply the Fredericton district, north to all towns as far as Edmundston.

SHOGOMOC

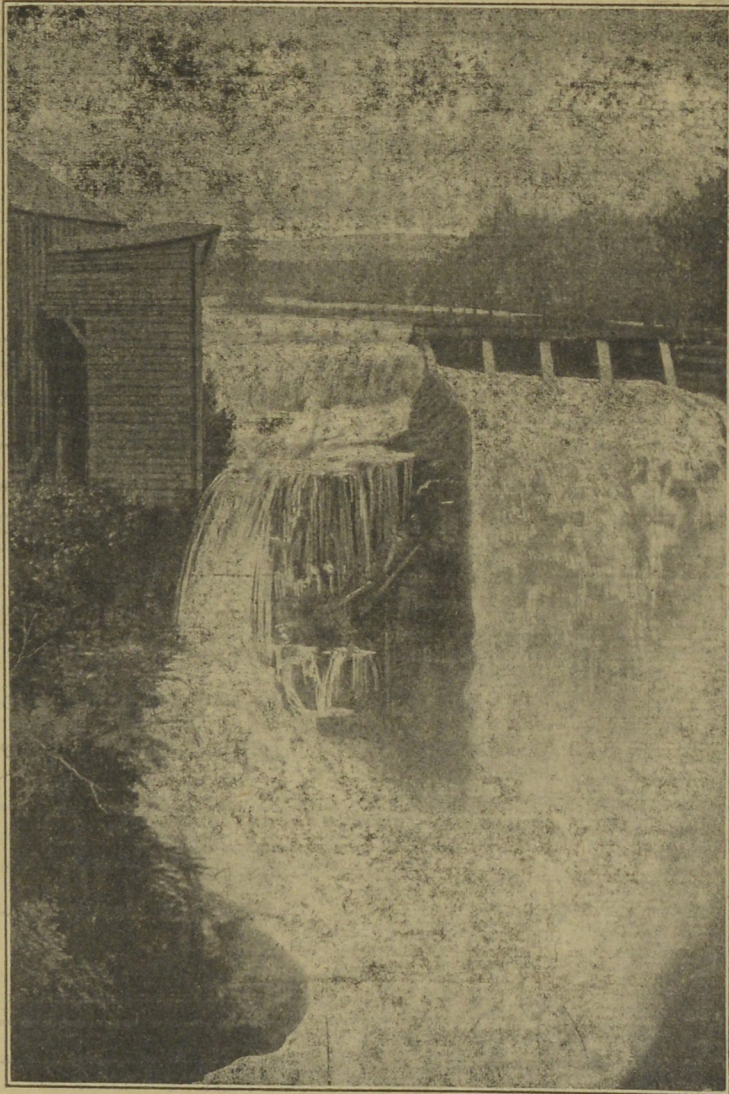
Messrs. C. H. and P. H. Mitchell, hydraulic engineers, have the following report to make on the Shogomoc:

The Shogomoc River empties into the St. John River approximately forty miles above Fredericton and about twenty miles from Woodstock.

The Shogomoc watershed is about ninety-five square miles in area above the proposed dam site. The water supply after the complete storage system is installed as proposed, is estimated to be about 130 cubic feet per second, based upon the precipitation and run-off factor for this region. It is borne in mind, however, that under the conditions of the four successive low precipitation years of 1912 to 1916 it is estimated that only 120 cubic feet per second would have been available as continuous flow, but as this exceptional condition has only occurred for the one period since 1874, 130 cubic feet per second working figure.

The power site was visited by us on September 14, and the dam site and canal and pipe line routes were gone over. It appears quite feasible to secure a good arrangement of these portions of the work. The generating station would be located on a rock ledge on the bank of the St. John River and the Surge Tank, or hydraulic control, would be located on a ledge on the high bank behind the generating station.

The gross head to be obtained in the development would be about 285 feet and allowing for the usual hydraulic losses the



POKIOK RIVER FALLS ABOVE GORGE

average net head would be about 270 feet. (This is without reference to the short period during which the high water of the spring freshet on the St. John will temporarily reduce it.) Under these conditions the output would be about 8,000 horsepower at 40 per cent. load factor, considered on the same basis as already outlined. This would produce about 19,000,000 kilowatt hours, power available for sale on the system.

There would be two units proposed in this plant, each having about 4,000 horse power output. The electric power would be through transformers suitable for 33,000 volt transmission.

In working out a time progress programme of construction it is to be borne in mind that the time required for construction of the electrical machinery is largely the determining factor. Again on the long pipe lines and storage scheme such as comprised in these developments the various preliminary delays incident on getting the hydraulic system into operation must preferably be done in moderate weather and not in winter time.

It is highly desirable then that the plants should be ready for testing out and got ready for operation not later than the 1st of December, 1921, and earlier if possible; if this cannot be accomplished, delay due to the second winter would ensue. This can be best done by letting the contracts for the machinery by December 1 of this year. If such is to be done it would be necessary to have specifications in the hands of the electrical and hydraulic machinery manufacturers by the latter part of October at the latest.

These definite plans are only the beginning of water power development in New Brunswick. The province is rich in small streams and it is quite feasible to link many of these up in one development as is now being done in Nova Scotia. Hydro-electric power will be turning farm and factory wheels by Christmas, 1921.

Under the Foster Government—

A BETTER DAY IS DAWNING FOR NEW BRUNSWICK

WHEN BAXTER REFUSED THE OPPOSITION PARTY LEADERSHIP

Told Opposition Convention in November That He Could Not Accept Under Any Circumstances — His Condemnation by the Party Along With Three Colleagues Had Made Acceptance Impossible — Urged Them to Play the Game With Murray as Leader — "If He is Not Fit to Lead, Neither Am I."

It will be recalled that the opposition held a convention in St. John in November last to select a leader and frame a policy. All the members of the "old guard" were on hand and took an active part in the proceedings. Mr. B. Frank Smith, now running as an independent in Carleton, was described by the Standard as "the leader of Carleton's delegation whose wise Counsel was productive of results." Farmer Guptill of Charlottee was also on hand and was described by the Standard as "an enthusiastic member of the convention," while Mr. Tilley of St. John was put down as "a live wire."

Leadership Hawked About.

The party leadership was offered to the convention to ex-Mayor Reiley of Moncton, Dr. J. Roy Campbell of St. John and Hon. J. B. M. Baxter who all declined with thanks.

Baxter's Fiery Outburst.

Mr. Baxter in declining the proffered honor delivered a fiery speech which was thus reported by the St. John Standard:

"Mr. Baxter acknowledged that the tribute was very pleasing indeed, but under no circumstances would he accept. He believed in personal as well as party loyalty, and while he may have made many mistakes in the head he had made none in the heart. He had been invited by the late Mr. Clarke to enter the government and did so through a feeling of party loyalty. His entry to the ministry came at a time when he found that the province was up against a difficult proposition in what had become known as the Belgian potato transaction. His own attitude was to tell the people the true facts of the loss they had sustained. This however was not the decision of his colleagues and by reason of his party loyalty he has for years borne criticism and personal abuse. The party has not done its duty to the Ministry in this respect. It had condemned him along with three others, AND HAS MADE IMPOSSIBLE HIS ACCEPTANCE OF THE LEADERSHIP. "Do you think for a moment I would sit in the House beside my friend, Jim Murray, and lead the House while having to listen to the jibes of the other side, and to see the sneers of those who have condemned myself, Murray, Jones and Smith? I WANT NONE OF YOUR LEADERSHIP. YOU ARE HERE TO GET A LEADER AND I HOPE YOU WILL GET ONE FROM AMONG THOSE WHO HAVE CRITICIZED US. PLAY THE GAME? PLAY TO WIN? BUT PLAY IT WITH JIM MURRAY AS YOUR LEADER. I have personally lost more than any other man in the party, but my skirts are clear as Murray's are clear. IF HE IS NOT FIT TO LEAD YOU NEITHER AM I. Now through the agency of the other party's press the impression has been created that the four of us are under a cloud. Get away from these four, and choose if you can one who is clean who has been loyal to the party and I will support him through thick and thin."

The convention re-elected Mr. Murray as leader and he acted in that capacity during the last session of the Legislature. Soon after the House was dissolved last month another convention was held, Mr. Murray was ousted from the leadership, and strange to say Mr. Baxter took back all he had previously said and accepted the position.

In other words Mr. Murray stepped out and Mr. Baxter stepped in. Mr. Murray is now running as one of his supporters in Kings, and if both are elected Mr. Baxter will apparently be willing to sit beside him in the House, and take the jibes of the other side and the sneers from those on his own side.

What do the honest electors of York think about such a strange combination of political misfits?

WOOD'S PHOSPHODINE.
The Great English Preparation
Tones and invigorates the whole nervous system, makes new blood in old veins. Used for Nervous Debility, Mental and Brain Worry, Despondency, Loss of Energy, Palpitation of the Heart, Failing Memory. Price \$2 per box, 3 for \$5. Sold by all druggists, or mailed in plain package, receipt of price. New pamphlet mailed free. THE WOOD MEDICINE CO., TORONTO, ONT.

CANADIAN PACIFIC

Change Time AUGUST 29.

TRAIN No. 112 leaving Fredericton at 5:35 p.m.
TRAIN No. 111, arriving Fredericton at 5:30 p.m.

CANCELLED.

TRAIN No. 110 will leave Fredericton at 4:55 p.m. instead of 3:45 p.m. as at present.

For other details of train charges apply to Local Agent.

N. R. DesBRISAY, Dist. Pass. Agt.

BACK TO THE FARM

The up-to-date farmers of Keswick and vicinity intend holding an Agricultural Show on OCTOBER 5th at their Show Ground adjoining the C. P. R. Station at Keswick. A well selected list of entries are open for competition by the members of the Society.

Plan to attend and spend an enjoyable day. Twelve miles from the city by C. P. R. or auto. Four trains daily. WM. H. MOORE.

TAXIDERMIST

WHEN YOU WANT THE BEST IN TAXIDERM, SEND YOUR GAME AND OTHER TROPHIES TO

GEO. A. DAVIS

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Am. Branch, VANCEBORO, Me.

CAPITAL BRAND

Have you tried our BUTTER yet? It is positively the best on the market. You are invited to call and see our plant at 448 King street. Visitors always welcome.

Capital Brand ICE CREAM 60 cents a quart.

FARMERS' CO-OPERATIVE DAIRY CO., LTD.
King Street.

APPLICATIONS for office help trained at FREDERICTON BUSINESS COLLEGE

are continually coming in from all parts of New Brunswick and the State of Maine.

We want more young men and women to qualify for these positions. Write for full particulars to

W. J. OSBORNE, Principal, Fredericton, N. B.

For Sale

I have still a few imported Barred Rock Cockerels of high laying strain, which may be seen at my yards, corner of Brunswick and Northumberland streets. These birds come from the best bred-to-lay stock in New England. They carried off honors this month at St. John, St. Stephen and Woodstock Exhibitions.

Price \$3 and \$4 each while they last. Will be shipped promptly on receipt of order.

If you want to own one of the best birds ever brought to the province, place your order without delay.

WEST END POULTRY YARDS
Fred H. Ferguson, Prop.
Fredericton, August 17, 1920.