

THE EVENING TIMES AND STAR, ST. JOHN, N. B., FRIDAY, NOVEMBER 12, 1920

OUR WEALTH OF WATER POWER

Interesting Address to Engineering Institute by C. O. Foss.

The progress of hydro-electrical development in New Brunswick was the subject of an interesting paper read last evening by C. O. Foss, chief engineer of the New Brunswick hydro-electric commission, before the St. John branch of the Engineering Institute of Canada, at its quarterly meeting in the old post office building. The chair was occupied by C. C. Kirby.

Mr. Foss expects that the work of development at Musquash will be completed by next summer and that eight thousand horse power will be supplied to points so far distant as Moncton by Dec. 1, 1921. The contract price for the Musquash dams and pipe line is \$2,450,000. Storage dams will cost, it is estimated, \$100,000, and three small run-downs are also to be added to the cost. All material for the work will be delivered on the snow during the coming winter and considerable work will be done before spring. The transmission lines will cost something less than \$8,000 a mile, the twelve or thirteen miles to St. John carrying a voltage of 13,000. The construction work at Musquash, said Mr. Foss, will be underway in a short time. The cost of the power is expected to be about one and one-half cents per kilowatt hour, whereas it now costs in St. John three and one-half or four cents.

Mr. Foss said that the work at Musquash would be much the same as that at St. Margaret's Bay (N. S.), where the horse power is identical. The designs for both plants were made by the same firm. A large part of the Musquash site is of solid rock and the rest clay hard pan. The latter has been found safe to hold concrete or earth dams. The tenders, now closed, provide for heavy mass concrete, which will cost about \$15,000 less than an earth dam. Mr. Foss felt that the New Brunswick Contracting Co., the lowest tenderer, would do a thoroughly reliable and first-class job. The firm of C. H. & P. H. Mitchell, of Toronto, is to supervise the grading of the pipe lines, construction of the power house, transmission lines and the other detailed work. This firm is to advise as to power, storage dams, etc.

Mr. Foss said he was confident that the pipe lines can be built and that it would not be necessary to pay heavy freight on British Columbia wood for the purpose. This would also be patronizing home industry. New Brunswick black spruce will be used and the work will



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cost \$5 a foot less than that in Nova Scotia. The pipe will be eight feet in diameter for continuous power and there will also be a ten-foot section. The three turbines will all be built of the same pattern. The Musquash work will be well in hand before the development at Shocomoc, York county, is undertaken.

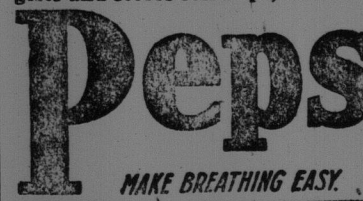
The watershed of the Musquash river is about 140 square miles and 360 cubic feet a second will be available for water power. The voltage on the main lines to St. John, twelve miles, will be 13,200.

Tenders for turbines and generators will be closed on Nov. 24. Mr. Foss said that the cost per kilowatt in this province should be low and compare favorably with that of the other provinces. It was planned that Musquash would furnish 8,000 horse power; Lepreau, 12,000; Magogadavie, 15,000; Shocomoc,

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MAKE BREATHING EASY.

8,000; Pokok, 8,000, and the north shore plant, 10,000.

At Bathurst, the Bathurst Lumber Company will furnish power until the provincial government is ready to develop in Gloucester county. Because of the prospect of cheap power several new industries are contemplating locating in Bathurst. In time all the water power in New Brunswick will be developed and linked up, Mr. Foss expected.

Mr. Foss then spoke of the immense supply of water available on the two branches of the Musquash, where there was capacity for 2,000,000,000 gallons storage. It would require considerable time before all water powers were developed and linked up.

Mr. Foss said that most of the land which would be required for storage at Musquash had been burned over and was barren, and that it was not anticipated that the cost of this land to the government would be unreasonable. One of the owners of this land had said that the cost of the land did not figure, as what he wanted was power.

The engineers who heard Mr. Foss' paper asked him numerous questions, and his replies showed that cheaper power meant much for the industrial development of the province.

CLAIMS TO HAVE SOLVED WALL ST. EXPLOSIONS

Plot of Labor Sympathizers, Says New York World—Conducted Independent Investigation.

(Canadian Press Despatch.) New York, Nov. 11.—The New York Evening World today publishes a three page article under the headline "Wall Street Explosion Solved," in which it gives the result of its independent investigation of the disaster which took nearly two score lives last September and seeks to link the outrage with "building trust graft" now under investigation by a joint legislative committee. The Evening World maintains that the explosion instead of being the work of "anarchists" as charged by Chief Flynn, of the department of justice, or "the third internationale" as charged by private investigators, was really a plot of labor men or labor sympathizers, directed in revenge against Robert P. Brindell, president of the Building Trades Council; Brindell workers demolishing the stock exchange building annex, at Broad

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To serve the double purpose of observing Armistice day and raising funds for their new instruments, St. Mary's band, a basket social and dance last evening at the Manor House, under the patronage of the Lieutenant-Governor and Mrs. Pugsley. A liberal sum was realized from the sale of baskets. The band furnished music for an enjoyable programme of dances, about seventy-five of the friends of the band taking part. The appropriateness of the occasion was deep-ly felt by twenty-seven members of the

band as, two years previous, they were serving in their respective units in and about Mons. The band was under the leadership of Harold Williams. The entertainment committee was as follows: Chairman, Robert Chambers; members, P. Ross, L. Dunlop, H. J. Barton and P. Ross. The baskets were sold at auction by Arthur Thomas.

Describing It.

There was a look of sadness on five-year-old Elizabeth's face, and her father asked her what was the trouble. "Oh, sighed the little miss, "I've got such a headache in my stomach."

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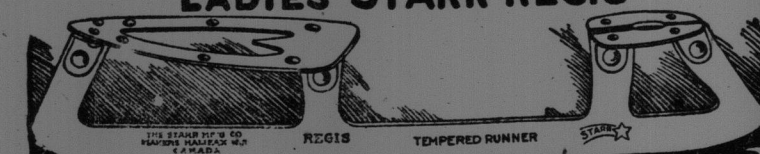
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