

THE OBSERVER

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CANADA'S LARGEST ENGINEERING PROJECT

Hydro-Electric Power Commission Carrying on Wonderful Power Development Work at Niagara Falls—A Second Panama Canal

Operating the largest shovels in the world, and reversing the flow of a river, the Hydro Electric Power Commission of Ontario is carrying on an enormous engineering project at Niagara Falls, practically without the use of steam.

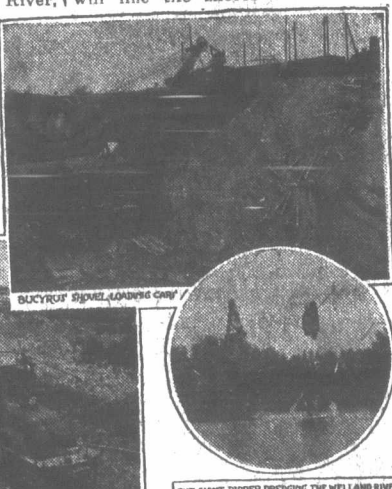
There are many startling phases to this work, which is the largest engineering feat attempted in the Dominion of Canada, and the biggest engineering job at present being carried on in the North American continent.

In order to get water to the new power house which will be erected just above Queenston, the Commission will utilize four and a quarter miles of the Welland River,

men present a striking picture. The weary householder painfully feeding the furnace, shoveling by shovel, from the ton or two of coal, his winter's supply, will marvel at the enormity of the electric shovels which pick up from eight to ten tons of material, lift it 70 feet into the air and deposit it into waiting cars, all within the short space of 40 seconds.

Trains, hauled by electric locomotives, convey the mud and clay to the dump at St. David's. The boulders and rock from the canal are borne away to the stone crusher on the cliff above Queenston, and converted into material for roadways, railroad roadbed and riprap which will line the shores of the canal.

HYDRO ELECTRIC DEVELOPMENT WORK AT NIAGARA



causing this sluggish stream to flow backward and to take water from the Niagara River instead of emptying into it above the Falls. Connecting with the Welland River is a power canal, stretching from Queenston and encircling the city of Niagara Falls, Ont., which will be eight and a quarter miles long when completed.

The original survey for the Niagara development was made in 1914, and the construction work begun in May, 1917. The commission expects to have the new plant in working order in 1922. War conditions handicapped the engineers, but this year's operations were begun on a gigantic scale. A trip over the right of way will impress the observer with the vast scope of the undertaking which, in its completed state, will cost approximately \$27,000,000.00.

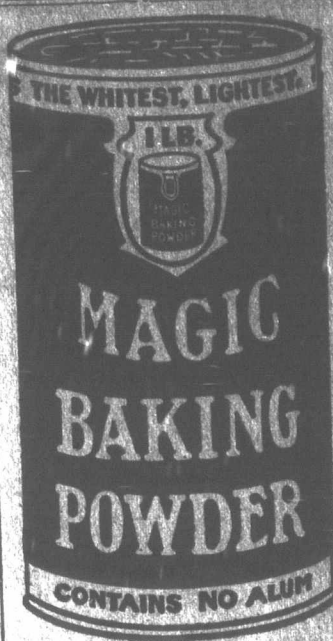
Two miles above the brink of Niagara Falls a steam dredge is gnawing away at the channel of the Welland River, removing in generous chunks the river bottom and a portion of Hog Island, which guards the entrance to this historic creek. The lone dredge and its attendant tug are the only pieces of equipment engaged on the entire Niagara development which are not owned by the Hydro-Electric Power Commission.

Even the drills employed on the rock deposits of the canal right of way are operated by air, electrically compressed. A mile or two inland a huge clamshell swung from an aerial cableway, drops into the river and then emerges, bringing with it generous bites from the river bottom, which are deposited on the river bank at the foot of the tower from where the operator directs the activities of the clamshell in this particular portion of the development. A short time from Niagara Falls over new roadways built by the commission from crushed limestone removed from its right of way, brings one to the canal proper, where the activities of huge electric shovels, electric trains and gangs of

The stone crusher, which has a capacity of 4,000 cubic yards, is well worth a visit. The rocks from the excavations are cast into a trough which grind and munch, breaking the largest pieces into smaller bits that are carried away on a belt conveyor. A series of crushers reduce the rocks to a form where they may be utilized for building purposes and stored for future use.

Fifty-five miles of railway, all electrified, and tapping five trunk lines, are required in the construction work on the development. On this railway the commission has in operation more electric locomotives than any railway system in Canada. At present 2,000 men are employed on the big job. These men are housed and fed by the commission. A surmountable ambulance and a hospital maintained by the commission are at the disposal of the employees in case of accident. The addition of the newest safety device has minimized the danger of accident on the development, and the commission has devoted a great deal of time to safety first propaganda in its employ. About 2,500 acres, or 60 per cent, of the lands acquired by the commission for its right of way, has been converted into farms, and the produce from the farms is sold to the employees of the commission. The commission maintains its own telephone system on the development, and it has connections throughout the province. Garages, machine shops and office buildings line the right of way.

By establishing the Hydro-Electric Power Commission the Hydro-Electric Power Commission is enabled to take advantage of the full drop of both Niagara Falls and the Gorge, a total drop of 205 feet, affording 100 per cent more electric power from the same amount of water. The largest electric units in the world, 55,000 horsepower generators, will be installed in the power house, to produce electrical energy for distribution throughout the Province of Ontario. This great work is a striking example of the big vision and initiative of Sir Adam Beck, under whose direction the commission carries on its functions. This work is one which gives the people of Ontario just cause for pride in achievement.



Lunn-Antworth

A very pretty house wedding took place at the residence of John T. Lunn, Esq., on Oct. 22 when his granddaughter, Miss Maple Luella Lunn, was joined in wedlock to Melbourn G. Antworth of Centerville. The ceremony was performed by Rev. F. A. Wightman of East Florenceville, in the presence of a goodly company of the near relatives of the bride and groom. The Wedding March was played by Mrs. Howard Lunn. The bride, one of Summerfield's popular young ladies, looked charming in a complete wedding costume of white. After the marriage the company sat down to a bountiful repast served in dainty style. After reparing to their future home the young couple were serenaded in the good old fashioned way. All will wish them a happy journey through life.

Used for Shaving

Many men are troubled, more particularly in the cold weather, with a sort of roughness of the skin or eczema caused by shaving. The application of Dr. Chase's Ointment after the shave soon cures the trouble and by using it after each shave you keep the skin soft and prevent irritation and soreness. Because of its antiseptic qualities this ointment prevents and cures Barber's Itch.

United Farmers Buy Brick Block

It is stated that the Farmer's Co-Operative Co. Ltd., have purchased the Franklin Clark building, which is a portion of the block more commonly known as the Keith & Plummer building. It is three stories high with concrete basement, and 25x80 feet. The Farmers will later use it for a store. It is said the purchase price is between \$3000 and \$9000.

Here is the Best Bargain in Carleton Co. Good Value for the Money

One 5-year-old Colt, black, with a white strip in face all smooth and in good shape; all ready for work or drive; kind and nice. Will be sold at once. One 6-inch Grain Grinder which will sell for \$35. New. If you need either of these apply to H. F. SMITH, Middle Greenfield, N.B.

Stock for Sale

1 reg. Clyde mare, 3 years old.
2 reg. Clyde mare, 1 year old.
3 reg. Clyde suckers—2 mares, 1 horse.
2 Holstein Bull Calves
1 Lincoln Ram, 2 years old.
15 Grade Ewes, good breeders, will sell at a bargain.

G. A. LAMOREAUX, Florenceville, N.B.

Automobile Owners Take Notice

What about your batteries these cold nights? Don't let them freeze. Take them out of car and bring to us. We will charge them up and keep them warm. If your battery is down the sooner they are charged up the better it is for the battery.

GLASS BROS.

Notice

The annual meeting of Agricultural Society No. 122 will be held in Armoury on Tuesday evening, Nov. 13, at 8 o'clock. We have quotation on fertilizer material for following season, including our old friend Potash. Plan to attend this meeting so you may get your share of the material while it is available.

WARD GINSON, Secretary.

How He Won the M.C.

The London Gazette thus describes how Lieut. J. McLeod, B. E. R., of Victoria won his Military Cross.

On Sept. 30, 1918, his battery which was ordered to take up a position in the vicinity of the Donai-Cambrai front, suddenly came under heavy machine-gun fire. He, realizing that the battery which was following, was likely to come under fire from this machine nest, mounted the only unwounded horse and under heavy fire galloped back to the battery.

A High-Prized Farm

G. Murray McLeod has sold his 310-acre farm at Wilmet to Surden McBurney of Coldstream. The farm is one of the finest in the county, five miles from Hartland and two miles from the Valley railway. It is stated that the sale price was right around \$15,000, and did not include the stock or machinery.

In Memoriam

In ever loving memory of our dear sister Agnes Watt who passed away Nov. 10, 1918.

We shall meet her some bright morning
Resting by the waters clear.
She is waiting for our coming
In that upper Garden fair.
Can she forget? Ah, no!
For memories golden chain
Shall link her heart to the hearts below
Till we meet and touch again.

Ever lovingly,
SISTER BELLA

1.00 a Bottle

When you have tried

Wampoles Emulsion

of

Cod Liver Oil

you will not be sorry. The agreeable taste and remarkable medicinal properties makes it the best tonic for children as well as for adults.

Estey & Curtis Co., Ltd.,

Kodaks, Printing and Developing,
Music and Stationery

The **Rexall** Store
HARTLAND, N. B.

We Don't Keep Clothing We Sell It!

SPECIAL PRICES ON UNDERWEAR FOR FRIDAY AND SATURDAY ONLY:

Heavy Wool in Three Weights	Fine Silky Wool	2.05
Light weight Unshrinkable \$1.80	do Union Suits 3.59	
Medium " 2.98	Heavyweight Fleece 1.85	
Heavy " 3.80	do Union Suits 2.70	

Men's and Boys' Suits

Made in waist line, form fitting and regular sacks, in blues, green lone pin stripes, browns, fancy grey check and Hawick Scotch Tweeds.

Men's Overcoats

Waist-line, double breasted, with velvet collar and vertical welt pockets. Double breasted Ulsters with convertible collar. Belt at back and tabs on sleeves.

Men's and Boys' Sweaters

A big line of Sweaters at a low price. Men's and Boys' Hug-Me-Tights, Boys' Fall-overs and Kiddies' Button Neck Sweaters.

OH, BOY!

The largest and best line of caps that ever struck town. Get yours now. We got your style, color, size and price.

20% dis off all Ladies' Sweaters

PUT THEM TO THE TEST SHOWN HERE
THEY WILL STAND IT BECAUSE THEY ARE MADE TO WEAR

NOBODY BUYS OVERALLS TO PLAY TRICKS WITH THEM SUCH AS IS SHOWN IN THE PICTURE ABOVE, IN WHICH FOUR MEN EXERTED ALL THEIR STRENGTH IN THE EFFORT TO RIP A PAIR OF PEABODY'S OVERALLS. BUT IF THEY WILL STAND THIS THEY WONT RIP UNDER THE HARDEST KIND OF LEGITIMATE WEAR. WE ARE THE AGENTS OF PEABODY'S GUARANTEED OVERALLS.

"NUF SED"

B. B. DYKEMAN

O. A. Hovey, Manager

HARTLAND, N. B.

FALL AND WINTER GOODS

NOW ARRIVING

Men's and Boys' Underwear, Hosiery, Caps, Sweaters, Suits and Overcoats

ALSO A FULL LINE OF

Ladies' Winter Coats

These goods were bought at the lowest prices spot cash could secure and will be sold accordingly

Hartland Clothing Company, Ltd