

A Splendid Piece of Engineering Work.

The New Big Pond Dam Has Been Completed -- Will Save Enormous Quantity of Water That Formerly Went to Waste

The proof that good engineering work can be accomplished in Newfoundland is afforded in the new dam that has been constructed at Bay Bulls by the engineering staff of the Newfoundland Company. The purpose of this dam, it may be said, is to save an enormous quantity of water that formerly went to waste, with the result, very often, that when the water was most needed it was not available. The public will remember some few weeks ago, when the street railway had to be closed down. Everybody knew, somewhat vaguely, it must be admitted, that the "shortage of water" had caused this, but few were aware of the actual meaning of that phrase. As it is known throughout the whole city, the electricity required to run the street-railway, as in the case of

the motors and lighting system of the town, is received from the Electric Plant at Petty Hr. This electricity, in turn, is derived from water drained from some forty-seven miles of surrounding territory. Cochrane, Middle, Bay Bulls, Big, Third and Second ponds are the ones from which this enormous quantity of water is received. The pond most distant, Middle Pond, is some miles from the plant at Petty Hr. All of the ponds are connected by rivers. Middle Pond empties into Big Pond; the latter empties into Third Pond, which in turn empties into Second. This last empties into the "Forebay," as the last and nearest one is called. Cochrane Pond also empties into Third Pond.

These ponds comprise an area of sixty six millions of square feet of

water, the biggest of them having always been Big Pond, with 32,000,000 square feet. Second Pond came second with fifteen million; Middle Pond third with eleven million. Cochrane Pond has eight million square feet of water.

The big trouble in the past, has been that the extra water resultant from snow-melting, heavy rainfalls and other causes, has flown over the old dams, down to the Forebay, and, because the flume leading to the plant itself was filled to its utmost capacity, from the Forebay down to the sea. Thus it was wasted and when the dry weather came could not be utilized. A shortage of water, so vitally necessary to the creation of electricity, therefore resulted, and a shortage of electricity was the additional result. It is perfectly obvious, from this, that the only thing to do was to construct an additional dam so that it could be used when the dry weather came. There was a dam at Big Pond which saved 270,000,000 cubic feet of water. This dam, which had a depth of water of nine feet, was fourteen feet from the sill of the water-gate. It was always regarded as being the mainstay of the plant at Petty Hr., as it saved most of the extra water that was saved. Even at that the quantity saved was away below the quantity required, and nothing remained but to construct a new and bigger dam that would save the water resultant from melting of snow and heavy rainfalls.

Consequently early in June of this year a large gang of men, numbering nearly a hundred, was set to work under the engineering experts of the Company, and their work ended in the past week. In the place of the old dam that stood there, there is now a splendid one that is well-worth a visit of inspection from anyone interested in feats of engineering and good workmanship. It is actually six hundred feet in length, and at one place, for a length of two hundred feet, runs to a height of thirty one feet, whereas the old one was only fourteen. Where the old dam saved nine feet of water, with an area of thirty-two million square feet, or fully 270 million cubic feet, the new one reserves twenty six feet of water with naturally a larger area, and its storage capacity is calculated to be over three times as great.

The old dam was three hundred feet in length, while this is twice as long. The first one had two concrete piers at the gate, each running fourteen feet in height. The present one only has two piers, but they run to a height of thirty-one feet, and are thirty-three feet long at the base. They are also five feet wide. Between those piers are the four gates, two being at the bottom and two half way up. The top gates are the first used, the bottom ones being used when the water gets down to where the top gates are of no further service. The bottom ones are last used because the water pressure there is too great to allow of their being opened. The main part of the dam is made of earth fillings, and measures about a hundred and twenty feet in width at its base and ten feet at the top, being in shape of a pyramid.

The pond, too, has increased in size, several marshes having become covered with water. This new dam will therefore save all of the enormous quantity of water that has up to now gone to waste and left the plant short in dry weather. The present supply of water is sufficient to generate enough electricity for all present lighting, power and the present street railway system. Should the latter be extended and enlarged, however, as has been contemplated for some time, additional electricity and therefore additional water would be essential and impossible to be done without. If such a contingency arose other water would have to be gotten, as the present plant uses all the water available in this district. In other words, it takes all of the available water of this area to generate the electricity required for present needs. The new dam at Bay Bulls Big Pond now reserves all the extra water possible, and it would be of no use to construct a bigger dam, as the present one is built at the greatest capacity. It is calculated that this reservoir will hold all the water that formerly went to waste; or, in other words, the several reservoirs are capable of holding all the drainage of the Petty Hr. water shed.

WESLEY SALE OF WORK—The Annual Sale of Wesley Ladies' Aid will take place on Wednesday and Thursday, 26th and 27th Nov., in Basement of the Church. Sale will be opened at 5.30 p.m. by Mrs. R. A. Squires. The following are the Stalls: Fancy Stall, Plain Work Stall, Handkerchief Stall, Candy and Fruit Stall, Pantry Stall. Meat Teas will be served from 6 o'clock on. Fancy Stall will display some very artistic hand-worked goods, etc. Pantry Stall will contain all home-made articles, such as Jams, Bread, fancy and plain; Cake, Pickles, etc. Teas, 70c. Soup Suppers served at 15c. per bowl. Admission 10c. on door. Second night a Concert with an interesting programme will be held. Admission 20c.—nov25,21,1u

MINARD'S LINIMENT CURES DANDRUFF.

Here and There.

PERSONAL—Mr. Gordon Penny, of Messrs. John Penny & Sons, Ramea, is in town on business.

Warm in winter, cool in summer—THE BEE-HIVE STORE. sep19,21,1u,th,sa

When you want Roast Beef, Roast Veal, Roast Mutton, Roast Pork, try ELLIS'.

NO FOREIGN DISPATCH—Up to press hour no foreign dispatch had been received by the Anglo Telegraph Co.

Grand Running Exhibition, Prince's Rink, Friday, Nov. 28th, at 8.15. Cadet Band in attendance. Admission 30c.—nov25,11

INGRAHAM AT TREPASSEY.—The steam-tug Ingraham has been harboring out of the storm at Trepasey since Sunday. She will stay there until the storm abates.

TO-NIGHT! TO-NIGHT!—C. L. B. Band Dance in British Hall. Tickets: Gent's, \$1.00; Lady's, 50c. Dancing commences 9 o'clock.—nov25,11

TRAIN MOVEMENTS—Yesterday's west bound left Notre Dame Junction at 2.55 a.m. To-day's east bound express not reported leaving Port aux Basques.

Through the kindness of Capt. Bulley the C. C. C. Band will be in attendance at Wednesday night's performance of "Snow-White and the Seven Dwarfs." nov25,11

MOVING PICTURES—A case of painted glass pictures fell off a cart on Water Street to-day and the contents was smashed to atoms, the carman picked up the debris and conveyed it to the dump.

Through the kindness of Capt. Bulley the C. C. C. Band will be in attendance at Wednesday night's performance of "Snow-White and the Seven Dwarfs." nov25,11

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We are now clearing out our whole stock of Millinery and Ready-to-wear Hats regardless of cost. Every hat must go, as we need plenty of room for our Xmas Goods. BISHOP, SONS & CO., LTD.

Through the kindness of Capt. Bulley the C. C. C. Band will be in attendance at Wednesday night's performance of "Snow-White and the Seven Dwarfs." nov25,11

Give a Thought to Music!

Satisfactory results cannot possibly be obtained from any plan that has merely been tuned and the action still in need of regulation.

A trial of my services will prove to you the advantages of having your work done with care and precision.

MARMADUKE H. FINDLATER, (Graduate of the Faust School of Tuning, Boston.)

Addresses:—Royal Stationery Co., 180-182 Water and Ordnance Street. nov5,eod,2m

A very pleasant and profitable afternoon and evening can be spent at Queen's Road Congregational Lecture Hall on Wednesday, 26th. Articles most suitable for Xmas gifts can be bought for fancy prices. Fresh Vegetables, Candies, Cake, Pastries, Mince Meat, Jellies, etc., etc., home-made; very tempting. Come and buy. Delicious Afternoon and Meat Teas will be served. On the programme for the evening Concert, beginning 8.15, are the following artists: Mrs. Christian, Mrs. Oke, Misses Mitchell, Herder, Kean and Brookes; Messrs. Christian, Mackintosh, Halley and Gushue. Admission 10c. Afternoon Teas 30c., Meat Teas 70c., Concert 20c.—nov25,21

Personal Mention.

Mr. T. L. Drover of Green's Hr. is at present in the city and is registered at the Crosbie.

When you want Sausages, why—get ELLIS'; they're the best.

Rust red, sea brown, bottle green, a variety of blues, mushroom brown and flaming tones are popular shades.

For the new wraps, favorite shades of velvet cloth are sapphire, marine blue, bottle green and champagne.

BORN.

On the 17th inst., at Channel, to ex-Sergt. J. W. and Mrs. Maddick, a daughter.

MARRIED.

At St. Patrick's Church, by Rev. Father Renouf, Miss Alice Kavanagh, of St. John's, to Mr. William Power, of Caplin Bay, on November the 18th, 1919.

KNOWLING'S SHOWROOM SPECIALS!

We are now able to offer fashionable and exclusive designs in

Ladies' Tweed Coats,

Smart, high grade garments, worth from \$45.00 to \$55.00, we offer at

\$37.50

We also draw your attention to the value of our offering of

Ladies' Serge Costumes

A well made, good lining and well finished costume,

\$15.50

These would be good value to-day at from \$20.00 to \$25.00.

G. Knowling, Ltd.

nov22,41,s,tu,th

PUBLIC NOTICE.

Under the provisions of Chapter 23, 2 Edward VII., entitled "An Act to amend the Post Office Act, 1891," and upon the recommendation of the Board appointed under Section 1 thereof, notice is hereby given that, Three Months after this date, a Proclamation will issue for the alteration of name, or re-naming of places as under, that is to say:—

1. That Turk's Gut, District of Harbor Main, to be re-named MARYS-VALE.
2. That Seal Cove, near Stephenville Crossing, District of St. George, to be re-named ROTH-ESAY.

J. R. BENNETT,

Colonial Secretary.

Dept. of the Colonial Sec'y, August 6th, 1919. aug7,131,th

LADIES' Hand BAGS.

We have just opened the latest New York creations in Hand Bags—Velvets and Silks. Beauty has been combined with usefulness to make a most suitable article.

Prices Reasonable.

T. J. DULEY & CO.

THE RELIABLE JEWELLERS.

ST. JOHN'S, N.F.

t.m.w

Notice to Ex-Service Men

With the return of the dark evenings it has been arranged to open the Night School for the Winter months, beginning on Monday, October the 6th.

The Night School will be in session from 8 o'clock to 9.30 every Monday, Tuesday, Thursday and Friday nights until further notice.

All ex-service men are entitled to free tuition in the Night School.

This affords a splendid opportunity to men who are at work during the day to fit themselves by education in their special line for promotion.

All applications for admission should be made to the Vocational Officer. oct3,61,then w,t

BULBS.

We have a small shipment of Bulbs just in:

Hyacinths, Daffodils,

Narcissus, Tulips.

CALVER'S,

162 DUCKWORTH ST.

nov24,31,m,w,f

MINARD'S LINIMENT CURES CILDS, &c.

GROCERS' HEADQUARTERS

IN STOCK—November 24:

- 100 brls. LIBBY'S SPECIAL PLATE BEEF.
- 100 brls. "TERRA NOVA" PLATE BEEF.
- 75 brls. CHICCE SPARE RIBS.
- 50 cases C. C. BEEF—6's.
- 100 cases LUNCH TONGUE—1's.
- 300 cases ROAST and C. C. BEEF—1's.
- 200 cases ASSORTED SOUPS—1's.
- 200 cases POTTED MEATS—1/4's.
- 100 cases PURITY MILK.
- 100 cases LIBBY'S EVAPORATED MILK.
- 100 cases VALENCIA ONIONS—5's.
- 60 cases VALENCIA ONIONS—4's.
- 50 boxes CRANBERRIES.

George Neal.

G. F. Kearney's Message to Christmas Buyers.

Preparedness marked our purchases for the Xmas Trade. Early in the year we got the "do it now" spirit and we've come out with a line of unsurpassed values—the greatest quality goods for this

"THE VICTORY CHRISTMAS."

Last year two hundred and sixty-two persons (as proven by a store inventory) selected second-choice gifts at our store because of late buying—putting off the day. We sold what they wanted one week before, and they had to choose substitutes. This happens every year. Why let it happen this? Our Xmas Goods are open now. Just three weeks more to Xmas. We sold to Xmas buyers on last Saturday. We are selling more to-day. Your gift may be gone to-morrow.

We have warned YOU! Don't put it off! Our Xmas Campaign begins now. Watch for our daily announcements.

SMYTH'S.

G. F. KEARNEY, Haberdasher from habt.

Forty Years in the public Service—the Evening Telegram.