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IT IS NATURE'S WATERWAY FOR CARRYING OF GRAIN

Something About the Trent Valley Canal, Its Capabilities and Prospects and the Territory It Serves—Has Largest Hydraulic Lift-Lock in World.

Editor World: Sir—It is an astonishing fact that at the present time Canadian people know little or nothing about that great projected national grain-carrying waterway, the Trent Canal, now about two-thirds completed, and which was at one time more sensibly named the "Trent Valley Canal."

The intention is to connect the North American upper lakes at the city of Midland on Georgian Bay, where the great ocean-like steamers after having carried the grain across the upper lakes from "Britain's granary" in the Canadian Northwest, will discharge into the Trent Canal barges, and after passing on thru this "Trent Valley waterway," will enter Lake Ontario at its eastern end, either at the town of Port Hope or Trenton, and from thence proceed by way of the St. Lawrence River canals to the seaport city of Montreal, where the barges will discharge direct into the great ocean carriers for Europe.

These Trent Canal barges will have a capacity of 25,000 bushels each, and will be hauled, several in consort, by steam tug from Georgian Bay to Montreal, and will there be discharged direct by floating elevators into the ocean steamers, thus relieving the immense outlay for elevators at Montreal.

The Trent Valley route is "nature's short grain-carrying waterway," and how ungrateful it would be were we not to utilize that which she has endowed us! It was the route taken by that great pioneer, Champlain, and furthermore, a canal route by way of the Trent Valley was decided by the imperial government to be the most economical waterway between the upper lakes and the seaport of Montreal, and the money was voted for part of the work and, in fact, several of the locks were constructed, but the Mackenzie rebellion breaking out, the money was appropriated for the purpose of giving it a quietus.

In 1880 the attention of the then Minister of Railways and Canals was directed to it, and the Canadian government was so impressed with the

route as an international waterway, that later on, in 1887, the government appointed a commission to consider the advisability of continuing the work. This commission, composed of Judge Weller of Peterboro, John Kennedy, C.E. of Montreal (now harbor master), and Frank Turner, C.E. of Toronto, in his report, gave evidence at the chief points on the great lakes as well as the seaboard, and from the evidence adduced, they reported favorably for the completion of the canal.

Next summer construction will be so far completed that a stretch of 159 miles of inland navigation will be opened between Lakes Couchiching and Simcoe, on the north and Rice Lake on the south, and there will be only two short sections remaining, the one being at the north end and the other at the south end. The north section will either cut across country a distance of 12 miles, following the Nottawasaga Valley, or else will follow up the Severn River, which will require to be canalized by means of dams, which would cause flooded navigable reaches of the river.

The uncompleted section in the south between Rice Lake and Lake Ontario, further surveys of which are now being made, will cost two and a half million dollars or less, and efforts are now being made to induce parliament to commence construction and thus give seaboard communication to an extent of country having a coast line of about 1000 miles, and having a total population of about 30,000 people located on the shores of this navigable waterway. The work now done would be of value.

The route of this proposed southern section will pass south across Rice Lake and cut across the Isthmus of 12 miles, following the Smith Creek Valley, and enter Lake Ontario in a good harbor at the town of Port Hope, and would then follow along the shore some 25 miles, following several good towns with harbor and into the Bay of Quinte thru the five-mile Murray Canal, and then pass on thru the St. Lawrence River canals to Montreal. Otherwise the route will pass east thru Rice Lake and follow the Trent River Valley to the town

of Trenton on the Bay of Quinte, a distance of some 54 miles, over half of which is already navigable, the canal route using the river at times and in other portions cutting across country.

The middle stretch of the canal of 160 miles, broken up by almost completed, between Lake Simcoe and Rice Lake, is composed of delightful stretches of navigable lakes and rivers, which for the most part lie transversely across the line of canal and which are linked together by means of locks. One stretch of lakes, now navigable, and upon which there is a large fleet of steamers and launches, extends for a distance of 70 miles and is known as the "Kawartha Lakes," a summer resort now rapidly outgrowing the famed Muskoka Lakes, and also noted for its bass and "lunge." They commence at Balsam Lake on the north and end at Lakefield near Peterboro on the south, the lakes passed thru being Balsam, Cameron, Sturgeon, Pigeon, Buckhorn, Deer, Lovelock, Clear and Katchewanooka, while the locks are: Rosedale, Peaton Falls, Bobcaygeon, Buckhorn Falls, Lovelock, Burleigh Falls and Young's Point. The biggest draw at Burleigh Falls, the difference in level there being nearly 30 feet, these falls having a reservoir or millpond of some 50 square miles.

The country northeast, and contiguous to the canal, has enormous quantities of hardwood suitable for furniture manufacturing purposes, and is at present only waiting until the canal barges can receive at the mouths of the streams tributary thereto, hardwood floating for a short distance. Of course millions of dollars worth of pine have already been floated out thru this waterway. The middle and southern portion of Central Ontario are a great-growth district, in fact, the largest cereal company in the world has recently erected mills at Peterboro, "The Wheat City," having a capacity of ten million bushels per annum, chiefly for European trade, and one reason for its location there was that an assurance was given that the Trent Valley Canal would soon be completed.

Already this whole district has felt the local benefits of the canal, notably Peterboro, where three of the largest of their kind in Canada have recently been located. In fact, a member of the great Rothbarth banking house, when visiting this section of the world several years ago, stated that this district was destined to be one of the great manufacturing centers of the world.

At Peterboro the great hydraulic lift-lock, the largest in the world, will lift the 25,000 bushel barges from the lower level to the upper level of the canal, six feet higher, by means of pumps or water-lifts, steel boxes 140 feet by 33 feet wide, with a depth of eight feet in the clear. These pontoons are closed on both ends by means of gates, hung on the lower edge, and gates are also used to close the reaches of the canal on the upper and lower levels. These chambers, guided between three huge high towers, built of concrete, are carried on heavy trusses, supported on top of two pilons or rams, seven and a half feet in diameter, which work in two water-tight wells, one under each chamber. The chambers are alternately up and down, and barges or vessels are hauled in or out by means of hydraulic capstans, and about 12 minutes is sufficient to cage, lift and lower the enclosed vessels, whereas it would take about one and a half hours to do a like lockage on the old-fashioned system, such as on the Welland or Erie Canal.

Four of these great lift-locks will be used on the Trent Canal, the second one located at the height of land, near Balsam Lake, being now also nearly finished. These four lift-locks will save altogether about six hours over the old system of lockage.

It is well to mention that these Trent Canal barges will have a capacity of 25,000 bushels, whereas the Erie Canal barges, running between Buffalo and New York, have only a capacity of 8000 bushels, and also that the Trent Valley route is some 150 miles shorter than the Erie route between the North American upper lakes and Liverpool, a total saving of about 1500 miles in the return trip. In comparison with the Welland Canal route, between Sault Ste. Marie and Montreal, the Trent Valley route will be some 250 miles longer, or about 500 miles in a round trip.

People have asked why this great work has been so delayed, and the answer has been given, because it has been made a political football. Both parties are committed to it, but a great deal of prejudice has been engendered against this Trent Valley undertaking because members of parliament and the public are generally lamentably ignorant as to its capacity, utility and purposes.

It is a well known fact that invariably when any public man has visited

Advertisement for Dardanelles Pure Egyptian Cigarettes. Includes an illustration of a woman in traditional dress and the text: 'A marvel of manipulation in the art of blending Egyptian Tobacco. Dardanelles Pure Egyptian Cigarettes. 15c PER PACKAGE. FOR SALE EVERYWHERE.'

Advertisement for Calvert's Carbolic Prickly-Heat Disinfecting Soap and Powder. Text: 'INVALUABLE IN HOT CLIMATES. CALVERT'S CARBOLIC PRICKLY-HEAT DISINFECTING SOAP. POWDER. Contains 10% Pure Carbolic Acid. Contains 15% Calvert's No. 5 Carbolic. A luxury for the Bath and Toilet, and most beneficial in cases of Prickly-Heat, Itch, Sunburn and Skin Irritation generally. Sold in Tablets and Bars. F. C. CALVERT & Co., Manchester, England.'

Advertisement for Joseph Chamberlain and the Masai Warriors. Includes a portrait of a man and text: 'THE JOSEPH CHAMBERLAIN AND THE MASAI WARRIORS. REMARKABLE INCIDENT. On the occasion of Mr. Joseph Chamberlain's recent visit to Mombasa, East Africa, a torchlight dance by the picturesque Masai warriors was given in his honor. In this connection a striking incident, as showing the world-wide use of Holloway's famous remedies, is illustrated by the accompanying photograph, taken on the spot by a correspondent of The Sphere, London. HOLLOWAY'S PILLS AND OINTMENT are used wherever the white man has set his foot. The Masai warrior carrying his grass pot slung from the lobe of his right ear. The pot in this case was a HOLLOWAY'S OINTMENT jar, and the lobe of the ear had been stretched to get round the pot. THE PILLS are a wonderful prompt and effectual, but gentle and benign, remedy for all disorders of the Liver and Bowels. They cleanse and thoroughly regulate the system. Females should never be without them. THE OINTMENT is the greatest healing agent known for Old Sores and all skin affections. Rheumatism and Sciatica yield to its influence quite miraculously, as also most throat and chest troubles. Manufactured only at 78, New Oxford Street (late 533, Oxford Street), London.'

Advertisement for Oakey's Wellington Knife Polish and other products. Text: 'Oakey's Wellington Knife Polish. Best for Cleaning and Polishing Cutlery. Oakey's Wellington Knife Boards. Polishing and Cleaning and Injury to Metal Plates. Silver Smith's Soap. John Oakey & Sons, Limited, London, England.'

Advertisement for The Bell Telephone Co. of Canada. Text: 'The Bell Telephone Co. of Canada. Preparing to issue a new subscribers directory for the CITY OF TORONTO. Orders for telephone connections, changes of equipment, names, addresses, etc. should be sent to this office at once to ensure publication. K. J. DUNSTAN, Local Manager. Toronto, September 15, 1903. 462'

Advertisement for the Trent Valley Canal. Includes a map showing the route from Georgian Bay to Montreal and text: 'TRENT VALLEY CANAL. Showing its manifest advantages over other grain carrying water routes.'

Large advertisement for Dr. McLaughlin's Electric Belt. Text: 'IT MADE A MAN OF ME. Read what Mr. John H. Bates, of Ninga, Man., says:— Dr. McLaughlin, Dear Sir—Since I wore your belt I am a new man. I was a broken-down stout-looking fellow. My back, heart and stomach troubles are completely cured. The pain is relieved and my appetite is restored. I can now do my work as well as ever. Give me a man broken down from dissipation, hard work or worry, from any cause which has sapped his vitality. Let him follow my advice for three months and I will make him as vigorous in every respect as any man of his age. Dear Sir—My food digests better. I am feeling better and stronger every day. I have not felt a cramp in my back since I wore your belt. I am sorry that I did not take your advice sooner. EDWARD A. WOLFE, Chesley, Ont. Dr. McLaughlin, Dear Sir—The belt is simply perfection. It did for me what other doctors have been trying to do with medicine for the last four years—broke down my nerves, made me feel better and stronger every day. I had been suffering for eleven years, and had been doctoring nearly all that time without any benefit. I started to wear your belt, and I feel better than I have for years. RICHARD PINCHOCK, Poplar Hill, Ont. Dr. McLaughlin, Dear Sir—I was suffering from a very severe stomach trouble and I weak heart, causing palpitation and loss of breath at the time I started to wear your belt. The first day I put it on I felt greatly benefited, and now feel quite free from my former stomach trouble and weakness. I have gained flesh and strength. I had been suffering for eleven years, and had been doctoring nearly all that time without any benefit. I started to wear your belt, and I feel better than I have for years. RICHARD PINCHOCK, Poplar Hill, Ont. Letters like that tell a story which means a good deal to a sufferer. They are a beacon light to the one who has become discouraged from useless doctoring. I get such letters every day. My Belt has a wonderful influence upon tired, weak nerves. It braces and invigorates them and stirs up a great force of energy in a man. Are you weak or in pain? Are you Nervous or Sleepless? Have you Varicocoele, Rheumatism, Weak Back, Kidney Trouble, Weak Stomach, Indigestion or Constipation? Are you lacking in vitality? I can give you the blessing of health and strength. I can fill your body with vigor and make you feel as you did in your youth. My Electric Belt is worn while you sleep. It gives a soothing, genial warmth into the body. This is life—vigor. After you have read the above, write to me, explain your case, and I will at once tell you if I can cure you or not. To prove to you the confidence I have in the curative powers of my Belt, I am willing to accept your case, and after I have cured you, then pay me. All I ask is, give me reasonable security. You can then use my Belt at my risk and

Advertisement for Neave's Food. Text: 'Don't Fool with Foods. Neave's Food. But adopt one about which there can be no question, which has been tried and proved for twenty years, and which all the BEST DOCTORS and MEDICAL JOURNALS agree in recommending. Such a Food is Neave's Food. It is a perfect food, and contains all the elements of health and strength. Yours truly, F. A. PEDLEY. "An excellent Food, admirably adapted to the wants of infants and young persons." SIR CHAS. A. CAMERON, C.B., M.D., Ex-President of the Royal College of Surgeons, Ireland. USED IN THE Russian Imperial Nursery GOLD MEDAL AWARDED WOMAN'S EXHIBITION, LONDON, 1900. Manufacturers—JOSEPH NEAVE & CO., Edinborough, Scotland. Wholesale Agents: Lyman Bros. & Co., Limited, Toronto and Montreal. Prof. Bain Dead. Aberdeen, Scotland, Sept. 18.—Professor Alexander Bain, formerly Lord Rector of the University here, and for 20 years professor of logic and English literature, is dead.'

Advertisement for Catarrh Is Curable or Not Curable. Text: 'Catarrh Is Curable or Not Curable. Just exactly according to the way it is treated. Let alone, doctoring theoretically or through the stomach—it's a snare! Attacked directly with Dr. Agnew's Catarrh Powder, it is first alleviated, then eradicated. Thousands say so, from glad experience. In an acre, more or less, of the strongest testimonials. Dr. Agnew's Heart Cure relieves heart disease in 30 mins. and cures. Only 25c a vial. Where Teachers Make Money. At the Department of Education a large number of letters have been received lately from the Northwest and Manitoba, asking for teachers' addresses. The Deputy Minister thought that if the Province of Ontario wished to gain their good teachers their salaries will have to be raised. The salaries paid in Manitoba and the Northwest are much higher than in Ontario. In Manitoba the average is from \$700 to \$1000, while in Ontario it is around \$500.'

Advertisement for various products including Camp Supplies, Machinists' Tools, Rice Lewis & Son, and Rubber Roofing. Text: 'CAMPING SUPPLIES. Specialties at MICHIE'S. MACHINISTS' TOOLS. WE OARRY COMPLETE STOCKS OF. RICE LEWIS & SON, Limited, TORONTO. RUBBER ROOFING. Lantz Longcor Guts Lead. Unaffected by Changes of temperature. Easier to apply than any other. Can be applied to any roof, flat or otherwise. THE YOKES Hardware Co., Yonge and Adelaide. Sole Agents.'