

ROCK CUTTING, TRENT CANAL, BETWEEN KIRKFIELD AND VICTORIA ROAD, IN NORTH VICTORIA Station No. 1, showing Station No. 2 in the distance.

his word. A large sum was put in the moment. estimates the following year, and work was at once commenced.

The magnificent locks at Fenelon Falls, Buckhorn, Lovesick, and Bur- Lake Couchiching to near Campbell- grain from the inland points along the leigh, and numerous dams were built ford in East Northumberland. With the canal to Montreal. Yet the Illinois Trenton to Montreal, via Bay of and completed about the year 1889.

Meantime Sir Charles Tupper was called to London, England, as High Commissioner for Canada, and the Trent canal lost a strong advoca the councils of the Government. The opening up of the great Canadian North-West consequent on the construction of the Canadian Pacific railway, caused interest in the scheme to wane, and for several years it was at a standstill. During that period deputations from all along the route visited Ottawa to urge the completion of the work; but it was not till the year 1893 that it was again taken up.

In 1892 Major Sam Hughes was elected member of Parliament for North Victoria. The "height of land" section of the canal connecting Balsam lake in Victoria county with Lake Simcoe is in the electoral district which he represents. Major Hughes, with characteristic vigour, took up the question, and being fortified with data by his old personal friend, Superintending Engineer Rogers, brought the strong features of the scheme to the attention of the Hon. John Haggart, Minister of Railways and Canals.

Ever quick to note the advantages and drawbacks in a scheme, Hon. Mr. Charles Tupper, Bart., was directed to this project, and after making a personal examination over the whole line of the canal, he was so pleased with the great possibilities of the scheme Government would certainly build this up the Severn river to Lake Couchi-Haggart promptly saw that while the strong points favourable to the completion of the work were many, the adverse ones were few. Accordingly, in 1893, he came to the decision to press the entire work to a successful finish with the least possible delay. Large sums were placed in the estimates, and surveys and plans were prepared for contracts. As an additional guarantee of the intention of the Government to complete the entire work as soon as possible, Hon. Mr. Haggart determined to construct the "height of land" section first, and concurrently with it the part between Peterborough and Lakefield. These the two ends, Couchiching to Georgian connection with the route. Bobcay-Bay, and near Campbellford to Trenton

on Bay of Quinte. The Balsam lake to Lake Simcoe section, running through North Victoria and North Ontario, was let to Mr. Andrew Onderdonk and Mr. Wm. Dennon, of Chicago. Work was begun by them on the "height of land" in 1894, and the contract will be completed by the end of 1896. Messrs, Brown, Love, and Aylmer, of Toronto, secured the Lakefield to Peterborough section, No. 1, and will finish it early in 1897. Mr. Corry, of Ottawa, has been Rice lake, and Trent river to Trenton. awarded section No. 2 of the Peterborough to Lakefield division. Mean- waters to Minden and beyond among time the surveys and plans for the the beautiful lakes of Haliburton, is two end sections are now being push- also projected and is easy of accomed rapidly forward, it being the in- plishment.

canal as rapidly as the finances of the | tention of Hon. Mr. Haggart to comcountry would allow. He was true to plete the work at the earliest possible are as follows :-

With the completion of the two divisions now under contract the route shown in these illustrations, the work



BATHERS-BOSKUNG LAKE, NORTH VICTORIA

is largely the connecting of navigable lakes by means of dams and locks, and the overcoming of rapids on the rivers by the same means. Starting from Midland on Georgian Bay the route lies Orillia; thence up the Talbot river valley to near Kirkfield in North Victoria, where the height of land into Balsam lake is cut.

Balsam lake is the feeder east and west, it receiving the waters of the Gull river from the north. Through Balsam lake and Rosedale river, only a mile long, Cameron lake is reached, at the foot of which are the falls and village of Fenelon Falls. Splendid locks already connect Cameron lake through the beautiful Fenelon Falls river, a mile long, to Sturgeon lake. This lake is connected by the river Scugog with Lake Scugog. Thus Lindsay and Port Perry possess the advantages of water geon lies between Sturgeon and Pigeon lakes. Locks connect these waters. Below Pigeon lake on the same level lie Buckhorn and Chemong lakes. Locks connect Buckhorn with Deer lake, Deer lake with Love Sick, and Love Sick with Stoney; thence into Clear lake is open sailing. Locks are at the foot of Clear lake into the Otonabee river, or Lake Katchawana, giving navigation to Lakefield. Thence to Peterborough the improved river route is being followed. From Peterberough the route lies down the Otonabee river.

The improvement of the Gull river

(a) The farmers, villagers, and townspeople along the route will have the advantages of water rates. It now will be open from Severn Bridge on takes 8c. to 9c. to deliver a bushel of exception of the height of land section farmer can send his to New York or Montreal for from five to six cents. The canal completed the rates would be more favourable.

(b) The distance from the great North-West and the West by water Sault Ste. Marie as a common starting is 667 miles. point the following are the distances to Liverpool :-

(1) Via Erie canal :-

Sault Ste. Marie to Buffalo, via Buffalo to Albany, via Erie canal 352 Albany to New York, via Hudson river..... New York to Liverpool...... 3,340 ously in sheltered waters.

Total, Sault Ste. Marie to Liverpool, via Erie canal..... 4.137

(2) Via Welland canal :-Port Colborne to Montreal, via Welland canal, Lake Ontario,

The advantages of the Trent canal and St. Lawrence canals...... 352 Montreal to Liverpool2,790

Total, Sault Ste. Marie to Liverpool, via Welland Canal...... 3,724 (3) Via Trent canal :-Sault Ste. Marie to Waubaushene 252 Waubaushene to Trenton..... 197 Quinte and St. Lawrence canals 231

Montreal to Liverpool.... 2,790 Total, Sault Ste. Marie to Liver-

pool, via Trent canal...... 3,470 Thus the difference in favour of th Trent route over the Welland is 254 would be shortened 254 miles. Taking miles, and over the Erie and New York

(c) A third great advantage in favour of the Trent route is its being sheltered. The storms and dangers of Miles. lakes Huron, Erie, and Ontario are avoided. Vessels will follow the shel-600 tered Georgian Bay route to the canal entrance at Midland or Waubaushene.

> miles. The remainder will be clear, of through traffic. banks will be avoided.

In the construction of the canal, by Peterborough High school and The agreement with the Government, the College School, Port Hope. He start McGill University contractors are as far as possible, to ated from McGill University, employ only British labourers. This real, in civil and mechanical engin has been carried out to the letter by ing in 1877, receiving the degree Messrs. Onderdonk and Dennon on the Bachelor of Applied Science. From Balsam lake section. When the work same famous university he grade was first begun the young Canadian in 1878 in mining engineering an farmers were averse to engaging in saying; received diplomas as p what many termed "navvy labour," cial land surveyor in 1879, and as bog work had to be undertaken. It minion land surveyor in 1880. was, therefore, necessary, as Canadians Mr. Rogers entered the Trent cana would not work in slush and muck to fice as assistant engineer. In the the knees, to engage Italians for the became assistant engineer on purpose. That work is now completed, Grand Trunk railway. In 1882 he especially as considerable swamp and assistant engineer on the surveys and as Canadians are becoming fa- the construction of the Trent canal miliar with drilling, blasting, and rock in 1884 became superintending engin handling, Messrs. Onderdonk and Den- for the maintenance of the Trent non now employ none but Britishers. When the work was begun in 1894 Those gentlemen pronounce them the ing towards the final completion best men they have ever had in their canal, Mr. Rogers was appointed service, and they pay them well ac- engineer in charge of the entire

The new system of hydraulic lift 1896 Engineer Rogers was commis locks has been adopted by the Govern- ed by the Canadian Government ment. By this system vessels can be proceed to Belgium, France, and locked 50 to 70 feet with the same ease land to examine and report on the

ant band mer Caro the Unite Niagara. history During February, March, and April

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MAJOR SAM. HUGHES, M.P.

there tranship to canal barges, which, and time as under ordinary locks it nal system of hose countries; but onward to Montreal, will be continu- takes to lock 10 feet. The size of pecially to enquire into the system locks is 134 by 33 by 6 feet deep on hydraulic lift locks in use there. The Of the 197 miles from Midland or sills. It is being proposed, however, are to be adopted on the Trent car Waubaushene to Trenton there will be to make the depth eight feet on sills and instead of having a series of of actual canal cutting less than ten to meet the increasing requirements of, say, 10 feet each, each hydra

Sault Ste. Marie to Port Colborne 582 open inland lake or river sailing. Thus R. B. Rogers, Esq., C.E., of Peter- Chief Engineer Rogers is son of delays from fear of washing in the borough, superintending engineer of late Col. Robert D. Rogers, of Pet the Trent canal, was educated at borough, who bravely led the here

lift will be from 50 to 70 feet.



"THE FORT," BALSAM LAKE, NORTH V CTORIA-ENTRANCE OF THE TRENT CANAL IN THE DISTANT BAY This is the famous George Laidlaw property, and the spot where Champlain encamped nearly 300 years ago. It is also becoming a pleasant summer resort.

Victoria Road and Kirkfield are distant but a few miles.