

irrigation, this will open up for cultivation an immense tract of land, which at present is only used for grazing, owing to its dryness. Where water has been applied in gardens the growth has been very luxuriant. It is expected that on completion of the system there will be a large influx of settlers from the United States, who understand and appreciate irrigation better than Canadians. The Kootenay market for hay, oats, vegetables, etc., will be quite close to this land.

The old suspension bridge across the Niagara River, connecting the Queen Victoria Park with Niagara Falls, N.Y., has been converted into an arch bridge of the same model as the Grand Trunk's new single-arch bridge. The steel arch was built up from either side of the river directly under the platform of the old bridge, and the work of alteration did not obstruct traffic over the bridge, except for a very short time. Both the arch bridges across the Niagara were designed and built under the supervision of L. J. Buck, C.E., New York. The new bridge is of the same pattern as the one built for the Grand Trunk, but is larger and has a greater span of arch, but is not calculated to sustain such heavy traffic as crosses the railroad company's bridge. The steel arch of the new bridge has a span of 840 feet, and the full length of the bridge is 1,240 feet. The length of the arch in the Grand Trunk bridge is 550 feet, and the length of the bridge, including approaches, is 1,100 feet. The centre of the new bridge is 190 feet above the river. The material of the old suspension bridge is to be used in the construction of a new suspension bridge across the Niagara River from Lewiston to Queenston.

The tenderers for the Port Colborne, Ont., waterworks, in whole or in part, are: St. Lawrence Foundry Co., Toronto; Londonderry Iron Co., Nova Scotia; Adam Hope & Co., Hamilton; Gartsbore, Thompson & Co., Hamilton; Hamilton Fire Escape Co., Hamilton; Drummond, McCall & Co., Montreal; Kerr Engine Co., Walkerville, Ont.; Rumsey & Co., Seneca Falls, N.Y.; Northey Mfg. Co., Toronto; Goulds Mfg. Co., Seneca Falls, N.Y.; J. W. Ruger Mfg. Co., Buffalo; Walsh Boiler Works, Springfield, Mass.; R. Brown & Sons, New Glasgow, N.S.; C. Richmond, Humberstone; Hunter Bros., Kincardine, Ont.; Geo. W. Moore, Buffalo; J. G. McKay, Thamesville, Ont.; W. B. Wilson, Buffalo; J. E. Kennedy, Owen Sound, Ont.; Clark & Connelly, Toronto; McQuillan, & Co., Toronto; W. W. Reid, Niagara Falls; Craig & Lynch; Hill & Gowanlock, Toronto; Fairbank, Morse & Co. The following are the lowest tenderers. For cast iron pipes, hydrants, valves, etc., St. Lawrence Foundry Co., Toronto, \$7,255.50; for complete system, Clark & Connelly, Toronto, \$17,800; McQuillan & Co., Toronto, \$18,960; Hill & Gowanlock, \$16,899. Lowest figures, taking separate bids for completed work, \$16,503.78. Pumping station was W. B. Wilson, Buffalo, \$900. For stand-pipe, Walsh Boiler Works, Springfield, Mass., \$995.

Mining Matters.

During one fortnight recently over forty miners left Johannesburg for the Klondyke.

The discovery of rich gold-bearing deposits is reported from Lake Clare, twenty-one miles north of Ste. Anne de Chicoutimi, Que.

The Jenckes Machine Co., Sherbrooke, Que., shipped on the 5th inst. a complete 10-stamp mill to the Cariboo Mining, Milling and Smelting Co., Fairview, B.C.

The Jenckes Machine Co., Sherbrooke, has equipped the Athabasca Mine, Nelson, B.C., with complete hoisting outfit and boiler. This mine is sure to become a producer of prominence.

D. S. McArthur & Co., Nelson, B.C., are developing their properties, and recently purchased, through the Rossland branch, from the Jenckes Machine Co. a complete hoisting plant.

The Monte Cristo Mine continues sinking in the main pit, and has lately added a No. 6 Cameron vertical pump, purchased through the Rossland branch, from the Jenckes Machine Co., Sherbrooke, Que.

The Rat Portage Diamond Drill Company has shipped machinery to Shoal Lake, where work has been commenced on the Cornucopia property.

Rossland, B.C., has organized a mining school by means of local subscriptions. About sixty students began the study of geology there early in April.

Mining in Newfoundland is likely to become more active very soon. The agents of at least five wealthy companies are at present in the Island examining properties, chiefly copper, with a view to purchase.

The Dundee Mining Company, Rossland, B.C., has just let a contract for furnishing material for a three-line gravity tramway. The price is \$1,400. The company will erect trestles and install the tramway.

The Bonanza Nickel Mining Company at Wahnapiat, Ont., has erected a ten-stamp mill at the Mammoth gold mine, which is now in operation under the management of Henry Dierlamm, formerly of Chesley, Ont.

W. M. Slack, Petrolca, Ont., Fred Beresford, London, and John MacRae, Petrolea, are on their way to Edmonton, N.W.T., to test an oil well for the Dominion Government. They expect to drill 2,200 feet before they strike oil.

George Wilson, contractor, Kingston, Ont., has bought a large mica mine situated two miles back of Gananoque, Ont. The mine was opened some time ago, and \$2,500 spent on it. Samples of the mineral show it to be of a superior quality.

The London and British Columbia Gold Fields Co., Ltd., Rossland, B.C., is developing its property, and recently added to its equipment a 6 x 8 special hoisting engine and 40-h.p. locomotive-type boiler from the Jenckes Machine Co., Sherbrooke, Que.

Prof. Frank P. Adams, professor of geology and paleontology in McGill University, has declined, out of regard to the wish of the university, the position of Provincial Mineralogist of British Columbia, the position until recently held by Prof. Carlyle.

The Coleraine Mining Company is reorganized, and the new directorate has employed A. Davis, their consulting engineer, to put in a complete new plant for mining at Black Lake, Megantic, Que. The company has orders for the entire output for three years.

The Jenckes Machine Co., Sherbrooke, Que., recently supplied the Sydney mine at North Sydney, Cape Breton, with a special coal hoisting engine, to be operated by compressed air. The compressor was supplied by the Canadian Rand Drill Co., Sherbrooke, Que.

Geo. M. Webster & Co., Quebec, coal handlers, are improving their facilities for unloading steamers, and for this purpose have placed an order with the Jenckes Machine Co., Sherbrooke, Que., for four of their double cylinder rapid coal-hoisting engines with boilers.

The Dominion Coal Co. is improving the facilities for unloading from its steamers at Levis, and has purchased for this purpose four *8 1/4 x 10 double cylinder special coal hoisting engines from the Jenckes Machine Co., Sherbrooke, Que., with a powerful 100 h.p. locomotive boiler.*

The British American Corporation, Rossland, B.C., is pushing the development of its properties, and the Jenckes Machine Co., Sherbrooke, through its Rossland branch, has supplied it with special pumping apparatus for the Nickel Plate, and Columbia and Kootenay mines.

Manganese iron ore is freely imported into the United States from various countries in Europe and South America. Extensive deposits of this ore exist in New Brunswick and Nova Scotia, and it would appear that Canada is losing a profitable trade which is lying right at her doors.

The Smuggler Gold Mining Co., headquarters Toronto, has decided to put a 20-stamp mill on its property at Fairview, B.C., this summer, and an order has been placed with the Jenckes Machine Co., Sherbrooke, Que., for Corliss engine, boiler, 20 stamps, vanners and four miles of aerial tramway.

The Bell Asbestos Co., Thetford Mines, Que., is changing over the system of operating the mine hoist, and for this purpose has placed an order with the Jenckes Machine Co., Sherbrooke, Que., for a 100-h.p. steel tubular boiler, and have also purchased from the same company a small locomotive for shifting cars in pits.

The Canadian Copper Co., of Copper Cliff, Ont., is fitting a new shaft, has placed an order with the Jenckes Machine Co., Sherbrooke, for two 100-h.p. special steel boilers, one 12 x 15 double cylinder double drum winding engine, three large steam pumps and rock breaker, and necessary gear for operating them.

The annual meeting of the Newfoundland Oil Company was held recently, the majority of the shareholders being present, and President Thompson occupying the chair. The report of the Secretary-Treasurer which was presented and adopted was of a most satisfactory nature. The officers of last year were re-elected.

Supplementary letters patent have been issued by the Quebec Government granting the Combustible Gas Company an exclusive privilege of working and making use of the combustible gas which exhales in various parts of the province, for the purpose of lighting, heating, and supplying motive power until August 30th, 1901, inclusive.

E. T. Wilkie, C.E., Carleton Place, Ont., and Andrew Bell, C.E., Almonte, Ont., are in charge of the survey now being made for a tramway to connect the iron mines now operated by the Hamilton smelting works, in Darling township, Lanark county, Ontario, with the Kingston and Pembroke Railway at Flower Station. The line may be ultimately an electric railway.