

Mining Throughout British Columbia

Receipts at Trail—Coal Development on Vancouver Island—
Dr. Dolmage Appointed to Ottawa—Britannia Mine
Stops Shipping Copper Concentrates—Mining Notes.

The following is a list of the ore received at the Trail smelter during the week ending November 21st, 1920:

Mine.	Location.	Gross Tons.
Bluebell, Riondel		179
Bunyan, Lake Windermere		30
Canada Copper, Allenby		107
Emerald, Salmo		33
Helldriver, Lake Windermere		36
Horn Silver, Chepaka-Similkameen		39
Josie, Rossland		164
Knob Hill, Republic		54
North Star, Kimberley		150
Providence, Greenwood		40
Ptarmigan, Lake Windermere		4
Rambler, Cariboo		42
Velvet, Velvet		23
Whitewater, Retallack		30
Company Mines		9733
		10,664

A dispatch from Nanaimo says:

A contemplated expenditure of \$1,500,000, including a surface plant capable of handling a thousand tons a day, is the development proposition of J. J. Grant, who is the owner of 2,800 acres of coal lands in the vicinity of East Wellington. A slope has already been driven to within 80 feet of coal. The immediate work of Mr. Grant, whose company is named the East Wellington Coal Co., is the erection of the surface plant. The plant, which will be a two-unit proposition throughout, will have two compressors, each capable of delivering 650 cubic feet of air per minute. The electrical plant, with two dynamos of 350 h.p. each, will supply power for the plant and furnish light and power for the Old East Wellington shaft and vicinity.

A few hundred yards to the east, the new electric light plant of the Nanaimo Electric Light Co. will be developed. This will provide a dam several miles above the present plant for day use, the water passing to the present lower dam for night service. Co-operation has been arranged between the coal company and the electric light management providing for a distribution of land and water rights, under which along with the development of the East Wellington Coal Co., the electric light and power plant will render a much enlarged service to Nanaimo.

Dr. Victor Dolmage of the Dominion geological survey, and resident in Vancouver for the past nine years, has been instructed to report to Ottawa. The deputy minister of mines, Mr. Charles Camsell, with whom the geologist has been actively associated since 1918, when the Vancouver office was opened, has transferred Dr. Dolmage to the Federal capital, so as to have the benefit of his extensive knowledge at first hand. In Ottawa there will be facilities for carrying on research work and completing investigations from scientific data collected in the field.

Dr. Dolmage has practically specialized on what is known as economic geology, that is the study of minerals as related to the mining industry. His activities have been nearly altogether confined to Vancouver Island, and during the past few years he has explored and examined every foot of that long and irregular shore line from Barkley Sound to Cape Scott. While Ottawa will be his home and headquarters, British Columbia will continue to receive his attention. He expects to return here next summer and make for the first time a geological map of the coast line to the north of Vancouver Island. This undertaking will extend over several years.

Associated with the survey for the past nine years, Dr. Dolmage received his Ph.D. degree from the Massachusetts Institute of Technology, Boston, in 1917.

Dr. Dolmage will be succeeded by Dr. George Hanson. For the first time in years, Britannia Mine at Howe Sound will temporarily discontinue shipping copper. Until conditions improve no further shipments of concentrates are to be made to Tacoma smelter.

More than two hundred men have been dropped from the payroll at the mine. Normally there are between 600 and 700 workmen at Britannia. What remains there will in the meantime be employed in development work, but it is not intended to ship any more ore while the price obtained is rather less than the cost of production. Copper is now worth less than 15 cents a pound.

During the war Britannia worked continuously and was one of the very largest copper producers in the British Empire.

A strike of high-grade gold ore has been made in the Emancipation Mine, located 105 miles from Vancouver on the Kettle Valley Railway just above Jessica. The size of the ore body has not been determined, but indications point to it being large. The discovery of this ore is due to geological reasoning. The occurrence of rich ore previously taken out of the mine has been due to a certain association of rocks. An examination of the surface made before the property was taken over by the Liberator Mining Co., Ltd., of Vancouver, showed that the rocks which produce high grade could be expected to be found at several places in depth.

The present tunnel was driven to find a point where such rocks occurred at depths. Recently this tunnel passed through these rocks, but did not find anything other than the usual mill ore through which the tunnel is drifting. More recently a small raise was put up where the high-grade ore should have been found and the rich ore was struck. This raise exposes a vein two feet wide by thirty feet long which assays between \$250 and \$1,800 a ton. The average value of this vein cannot be stated until more ore has been mined, but it is expected to amount to several hundred dollars a ton.

The discovery of this ore at a place and under the geological conditions predicted by Dr. E. T. Hodge, is considered proof that other rich shoots will be found at the locations where these particular ore-containing rocks are known to exist.

In addition to the discovery of a body of high-grade ore, a large tonnage of mill ore has been proven. The 1,200-foot tunnel has been driven into the vein for 330 feet and at this point has over 200 feet of stoping. The first 210 feet of this tunnel averaged more than \$30 a ton. The last 120 feet averages more than \$10 a ton, if the recently discovered high-grade ore is not included.

Another tunnel, 130 feet below, is now in 240 feet. The main vein has been found and it carries a good grade of mill ore.

Officials of the company state that development work to date warranted the conclusion that the mine has now been proven. Shipping will start when the railway siding is completed.

A rich ore shoot has been struck at the Society Girl Mine, at Moyie. The mine was reopened last August, after a long period of idleness. Ore is being taken from the shoot, and a shipment will be made to Trail within the next few weeks.

J. D. Galloway, resident mining engineer at Hazelton, recently visited the Babine Bonanza and reported an excellent showing of ore where the tunnel cut the vein. Spokane directors also visited the property lately and decided to carry on the work by hand, not waiting for the erection