

MINING DURING THE PAST YEAR

Shipments for 1900 Were 221,902 Tons Valued

at \$3,500,000, Increase 22 Per Cent--

Mining Machinery and Economical Methods--Outlook for 1901.

generally over the year past, few things which cannot fail to attract attention. The one is the strike which occurred in the spring, and which, although settled in a manner which was creditable to both parties in the dispute, yet was one that shut down one of our chief producers for a period of two months thereby curtailing the output of the camp to the extent of 40,000 to 50,000 tons. The other point is the vast amount of machinery which has been put into the various mines, notably the Le Roi, Centre Star, War Eagle, Le Roi No. 2, and Rossland Great Western. The total value of this will not fall far short of \$900,000. This will not mean that fewer men will be employed in the camp. On the contrary, it will give room for a great many more. In the past year more men were employed than in 1899. The pay roll for the past month will not fall short of \$180,000, whereas in January the pay roll ran to about \$150,000. This influx of machinery is by no means at an end. The Le Roi has yet to install a 600-horse power hoist alongside of the larger one now about to be turned over. The Rossland Great Western is putting in a 40-inch electrical compressor worth \$40,000. The Iron Mask is about to put in a modern plant which will bring up the mine to a more efficient standard of shipping.

Both smelters, in Northport and in Trail, have increased or are increasing their capacities. Together they will be able to deal with at least 2,000 tons per diem, and it is expected that even this will not suffice for the increasing output of the camp, and no light struggle, but a strenuous contest is on at the present moment for the possession of an at third smelter, which it is suggested to build in the vicinity of Rossland. The increase of the equipment throughout the camp in every mine shows that a vasty increased output is now ready to be handled, and the probability is that the percentage of increase for the coming year, if all goes well, will be nearer 100 than 22 per cent. The increase for 1900 over the year previous.

Another good feature which will be seen to have good results this year is the number of mines that are coming to the front. Last year, among the big ones, were the Le Roi, War Eagle and Centre Star. This year there will be added to these the Le Roi No. 2, the Rossland Great Western, and the likely additions without speaking of the minor properties which speak of the future of the camp, such as the Spitzee, Evening Star and I.X.L. The last named, by the way, was the only constant shipper for every month of the past year.

The output of the camp for the year just ended amounted to 221,902 tons, approximately valued at \$3,500,000. To show what this means an abstract of values since the time the camp began to ship is given:

Year.	Tons.	Value.
1894.....	1,866	\$ 75,000
1895.....	19,693	702,359
1896.....	38,075	1,245,280
1897.....	68,804	2,097,280
1898.....	111,263	2,470,811
1899.....	180,300	3,211,400
1900.....	221,902	3,500,000
Total.....	641,912	\$3,210,730

It will be seen that whereas the shipments of the ore has increased about 22 per cent, over the output of the year previous the value of the ore has increased has not risen in the same proportion. That such would be the case was pointed out by the Miner at the beginning of last year. The cause is very simple: It is January. It is understood that the Le Roi company, which is the principal shipper, has installed a great amount of economical machinery. This has been done for the purpose of exploiting the low grade ore of the ledge. When the Le Roi was first worked under conditions which were handicapped it, there was no attempt made to mine the lower grades of the ledge. As depth was gained the pay streak alone of the ledge was taken out and the walls of the vein left intact were not the geological but were the commercial walls. The ledge under those circumstances was only about 20 feet wide. The high cost of freight, the prohibitive prices of smelting, the lack of machinery and the lack of capital to do things on a large scale, all conspired to make the pay streak as one which could not be made to yield a profit unless at least \$30 was got out. Under this value nothing would pay. Hence the employment of ore sorters who in their turn helped to swell the expense of mining. This time last year the Le Roi had succeeded in getting up a smelter which it considered a favorable rate with and there only remained to be done the introduction of more economical methods of mining. This is now all but completed. From this time forth the ore from the time it leaves the ledge to the time it reaches the roast heap has been handled in a manner which will only be done by machinery. Everything else is done by machinery. By the methods of work already employed and by the introduction as time goes on, of methodical modes of operating the class of ore which could be profitably mined has been gradually lowered and the value of the ore exported for the year has dropped to \$13 per ton. But the commercial walls of the ledge have been extended across the whole width between the geological confines of the ledge, varying from 60 to 107 feet. This has meant less dead work and consequently a more economical expense. Formerly the cost of mining in this section fell short of \$5 and often ran over. By the time all the methods alluded to have got into working order the cost of mining will have been halved. So that in the year to come as in the year past it is to be expected that the value of the ore mined will drop just because it now

pays to work ore of a lower grade. It is no dream that \$8 will be made to pay if it does not do so at the present moment. But when the Le Roi started as already stated, nothing would pay under \$30 rock and the output was consequently greatly restricted. Another step which it is possible will be taken within the next year or two is the establishment of a refinery in the Kootenays and in consequence a further reduction in charges. At the present time the smelters have to pay a freight on all ores going to the eastern states for reduction. If a refinery were on the spot some \$10 to \$12 per ton could be saved and the smelter would therefore be able to give a better price for the ore mined and the miners in turn would find that it would pay them to extract lower grade ore.

The point is this, that there is plenty, mountains of low grade ore, but there is little high grade. The lower the grade which can be made to pay the greater will be the production of the mines.

The following is a list of the shipments from the Rossland mines during the year 1900, which may be taken to be as nearly the correct figures, which cannot be obtained for a week or more to come from the smelters, with regard to the shipments which have been made for the past week or so, which therefore have had to be averaged:

Le Roi	162,415
Centre Star	41,122
War Eagle	10,278
Le Roi No. 2	2,997
Iron Mask	2,973
Giant	611
I.X.L.	500
Evening Star	428
Monte Christo	273
Spitzee	155
Iron Colt	80
Total	221,902

January Shipments.	8,855
Le Roi	8,390
Centre Star	6,016
Iron Mask	1,071
I.X.L.	42
Giant	42
Evening Star	29
Monte Christo	23
Total	24,933

February.	3,725
Le Roi	3,720
Centre Star	1,001
Iron Mask	269
I.X.L.	106
Evening Star	69
Total	6,960

March.	136
Le Roi	94
I.X.L.	49
Total	279

April.	6,887
Le Roi	119
Evening Star	28
I.X.L.	23
Total	6,834

May.	15,611
Le Roi	15,611
Iron Colt	50
I.X.L.	43
Total	15,704

June.	17,130
Le Roi	17,130
I.X.L.	22
Total	17,161

July.	19,245
Le Roi	75
Evening Star	23
I.X.L.	23
Total	19,343

August.	22,822
Le Roi	41
Giant	80
Iron Colt	23
I.X.L.	20
Spitzee	20
Total	23,730

September.	18,007
Le Roi	7,408
Centre Star	182
Giant	46
I.X.L.	1,393
Le Roi No. 2	1,393
Total	27,006

October.	18,025
Le Roi	9,000
Centre Star	500
Iron Mask	161
Giant	60
War Eagle	60
Le Roi No. 2	55
I.X.L.	22
Total	27,832

November.	16,004
Le Roi	9,068
Centre Star	530
Iron Mask	164
Le Roi No. 2	144
War Eagle	80
Giant	77
Spitzee	69
I.X.L.	45
Total	26,046

December.	16,025
Le Roi	8,800
Centre Star	1,385
Le Roi No. 2	500
Iron Mask	138
Giant	46
Spitzee	45
I.X.L.	45
Total	26,968

BANK OF COMMERCE.

It Has Opened a Savings Department in Its Rossland Branch.

The Canadian Bank of Commerce, which is incorporated in the Province of British Columbia, is now doing business with a capital of \$8,000,000 and a rest of \$2,000,000. Hon. George B. Cox is president and

Mr. B. E. Walker general manager. A feature of the bank is the savings department, which has been opened in connection with the Rossland branch. Deposits will be received from \$1 upwards and interest allowed at the current rate. This will be a feature which the people of the city and section will greatly appreciate. Drafts of letters of credit issued on all points. Mr. Henry F. Mytton is the manager of the Rossland branch. Mr. Mytton, manager of the Canadian Bank of Commerce in this city, yesterday received a telegram stating that an order in council had been signed by the governor-general ratifying the agreement entered into by which the Canadian Bank of Commerce and the Bank of British Columbia are consolidated.

RETURNING HEROES.

Vancouver Greets Her Boys With a Tremendous Ovation.

Vancouver, B. C., Dec. 31.—A tremendous ovation was given here today to the returning members of the Transvaal contingent. They were met at the railway station by the Duke of Connaught's Rifles, commanded by Col. Worsnop and the Army Veterans' association, commanded by Col. Warren, C. M. G. The mayor and aldermen received the returning soldiers as they returned, and gave a brief welcome speech. They were escorted through the business streets which were thronged with cheering thousands. The city was a waving mass of brilliant flags, and arches of evergreens bearing suitable inscriptions further attested the admiration of Vancouver's citizens. Lunch was served to the members of the contingent and their friends and distinguished guests by the ladies of Vancouver, under the leadership of Lady Tupper. A score of pretty society girls waited on the ladies and the soldiers received such a banquet as was not their portion in South Africa. But the greatest feature of their home-coming was the illuminated parade this evening. Three thousand men were in line bearing torches and setting off fireworks. An immense arch had the words: "Welcome, Heroes," displayed in electric lights. The streets were crowded with the entire population of the city who cheered their boys again and again. A mass meeting was held in the Opera house. Each of the returning soldiers was presented with a gold watch by the mayor on behalf of the citizens, and welcome addresses were delivered by Mayor Gordon, Sir Charles Hibbert Tupper, M. P.; G. R. Maxwell, M. P.; Archdeacon Pentecost, Rev. E. D. Macleod; Capt. Tattlow, M. P. and several appropriate musical selections were given.

Queen's Councillors Appointed.

Victoria, B.C., Dec. 31.—The provincial government has appointed the following Queen's Councillors: Hugh Bowley, William Alkanan, Alfred St. George Hamersley, Anlay Morrison, William John Bower, Adolphus Williams, Frederick John Fulton, Gordon Hunter, Robert Cassidy, Charles W. McConn and Lyman P. Duff. In the regulations published for carrying out the provisions of the British Columbia Immigration Act, 1900, the province is divided into four districts, the Island and Mainland. W. H. Ellis has been appointed immigration officer of the Island, and Angus McAllister of Vancouver for the Mainland. The act provides for an educational test.

The Spitzee.

Mr. A. T. Pollett has recently been in temporary charge of this mine. He thinks the property is a fine one and that the accounts of it reaching the public have been fully justified by what he has seen. The ore that is now being taken out and which is being shipped comes from the shaft. Stopping will not be started until the shaft has reached sufficient depth to give some backing to the stopes. The shaft is now down something a little short of 50 feet.

Mr. A. B. Clabon leaves today for a visit to the Boundary country.

LICENSE AUTHORIZING AN EXTRA-PROVINCIAL COMPANY TO CARRY ON BUSINESS.

"Companies Act, 1897." Canada: Province of British Columbia.

No. 302. This is to certify that the "Columbian Proprietary, Limited," is authorized and licensed to carry on business within the Province of British Columbia, and to carry out or effect all or any of the objects hereinafter set forth to which the legislative authority of the Legislature of British Columbia extends.

The head office of the Company is situated in England.

The amount of the capital of the Company is \$500,000, divided into 100,000 shares of \$5 each.

The head office of the Company in this Province is situated at Rossland, and Bernard Macdonald, mine manager, whose address is Rossland aforesaid, is the attorney for the Company.

Given under my hand and seal of office at Victoria, Province of British Columbia, this 1st day of December, one thousand nine hundred.

(L.S.) S. Y. WOOTTON,

Registrar of Joint Stock Companies.

The following are the objects for which the Company has been established:

(1) To search for, prospect, examine and explore mines and ground supposed to contain minerals or precious stones, and to search for and obtain information with regard to mines, mining claims, mining districts and localities; to purchase, take or lease or concession, or otherwise acquire for any interest therein, and to hold, sell, dispose of and deal with lands or hereditaments of any tenure, gold, silver, copper, lead, tin, quartz, iron, timber and other minerals, and to carry on any property supposed to contain minerals or precious stones of any kind and undertakings connected therewith; and to explore, work, exercise, develop, finance and turn to account the same.

(2) To search for, prospect, examine, crush, wash, dress, reduce, amalgamate, smelt, refine and prepare for market metallic minerals and metals of all kinds and for this purpose to buy or otherwise acquire buildings, plant, machinery, implements, appliances and tools, to buy, sell, manipulate, export and deal in ores, minerals and metals of all kinds, to mine, enter into, carry on, assist or participate in any mining or metallurgical

MINING PROPERTIES

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ROSSLAND, B. C.

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operations and undertakings connected therewith:

(3) To purchase or otherwise acquire, hold, sell, exchange, turn to account, dispose of and deal in real and personal property of all kinds, and in particular lands, buildings, hereditaments, business concerns and undertakings, mortgages, charges, annuities, patents, patent rights, copyrights, licences, securities, grants, charters, concessions, leases, contracts, options, policies, book debts and claims, and any interest in real or personal property, and any claims against such property or against any persons or company, and to finance and carry on any business concern or undertaking so acquired;

(4) To promote, acquire, construct, equip, maintain, improve, work, manage or control, or aid in or subscribe towards the promotion, acquisition, construction, equipment, maintenance, improvement, working management or control of works, undertakings and operations of all kinds, both public and private, and in particular roads, tramways, railways, telegraphs, telephones, cables, ships, lighters, harbours, piers, docks, quays, wharves, warehouses, bridges, viaducts, aqueducts, reservoirs, embankments, waterworks, watercourses, canals, flumes, irrigations, drainage, saw-mills, crushing mills, smelting works, iron, steel, ordnance, engineering and mechanical works, hydraulic works, gas and electric lighting, electrical works, power supply, quarries, collieries, coke ovens, foundries, furnaces, factories, carrying undertakings by land and water, fortifications, markets, exchanges, mints, public and private buildings, newspapers and publication establishments, breweries, wineries, distilleries, hotels, residences, recreation or amusement, whether for the purposes of the Company or for sale or hire or in return for any consideration from any other companies or persons;

(5) To undertake and carry on any business transaction or operation concerning undertaken or carried on by financiers, promoters of companies, bankers, underwriters, concessionaires, contractors for public and other works, capitalists or merchants, and to carry on any other business which may seem to the Company capable of being conveniently carried on in connection with any of the objects of the Company, or which may be thought calculated directly or indirectly to enhance the value of or render profitable any of the Company's property or rights;

(6) To purchase or otherwise acquire, hold, sell, manipulate, exchange, turn to account, dispose of, and deal in agricultural, plantation, forestal, fishing, and trading rights; and in all or any products of cultivated plantations, forests, fisheries and the earth, including animals, grain, provisions, fruits, wines, spirits, cotton, wool, silk fibres, tobacco, coffee, tea, sugar, timber, rubber, oils, chemicals, explosives, drugs, dye-stuffs, nitrates, petroleum, bullion, copper, lead, tin, quinine, iron, coal, stone, and merchandise and commodities of all kinds, either for immediate or future delivery, and whether in a crude state or manufactured, or partly manufactured or otherwise; and to advance money at interest upon the security of all or any such products, merchandise and commodities, and to carry on business as merchants, importers and exporters;

(7) To transact and carry on all kinds of agency and commission business, and in particular to collect moneys, royalties, revenue, interest, rents and debts; and to issue and place shares, stocks, bonds, debentures, debenture stocks or securities;

(8) To subscribe for the payment of or to acquire, hold, sell, exchange, dispose of and deal in shares, stocks, bonds, debentures, debenture stock or obligations of any company, whether British, Colonial or Foreign, or of any authority, supreme, municipal, local or otherwise;

(9) To guarantee the payment of money, secured by or payable under or in respect of bonds, debentures, debenture stock, contracts, mortgages, charges, obligations and securities of any company, whether British, Colonial or Foreign, or of any authority, supreme, municipal, local or otherwise, or of any persons whomsoever, whether corporate or incorporate;

(10) To guarantee the title to or quiet enjoyment of property, either absolutely or subject to any qualifications or conditions, and to guarantee companies or persons interested or about to become interested in any property against any loss, actions, proceedings, claims or demands in respect of any insufficiency or imperfection of title, or in respect of any incumbrances, burdens, or outstanding rights;

(11) To furnish and provide deposits and guarantee funds required in relation to any tender or application for any contract, concession, lease, enactment, property or privilege, or in relation to the carrying out of any contract, concession, decree or enactment;

(12) Generally to carry on and transact every kind of guarantee business and indemnity business, and to undertake obligations of every kind and description, and also to undertake and execute trusts of all kinds;

(13) To receive moneys, securities and valuables of all kinds on deposit, at interest or otherwise, or for safe custody, and generally to carry on the business of a safe deposit company;

(14) To lend money to such parties and on such terms, with or without security, as may seem expedient, and in particular to customers of and persons having dealings with the Company; and to guarantee the performance of contracts by members of, or companies having dealings with, the Company; and to draw, accept, endorse, discount, issue, buy, sell and deal in bills of exchange, promissory notes, drafts, bills of lading, coupons, warrants, and other negotiable or transferable instruments, and buy and sell and deal in bullion, specie and coin;

(15) To borrow or raise or secure the payment of money for the purposes of the Company, in such manner and upon such terms as may seem expedient, and to secure the repayment or payment thereof by redeemable or irredeemable bonds, debentures or debenture stock (being debentures and debenture stock being issued or payable either at par or at a

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premium or discount), or by mortgages,

script certificates, bills of exchange or promissory notes, or by any other instrument, or in such other manner as may be determined, and for any such purpose to charge all or any part of the property of the Company, both present and future, including its uncalculated capital; and to allot the shares of the Company, credited as fully or partly paid up, or bonds, debentures or debenture stock issued by the Company, as the whole or part of the purchase price for any property purchased by the Company, or for any valuable consideration;

(16) To make donations to such persons and in such cases, and either of cash or other assets, as may be thought directly or indirectly conducive to any of the Company's objects or otherwise expedient; and to subscribe or guarantee money for charitable or benevolent objects, or for any exhibition, or for any public, general or other object;

(17) To enter into any arrangement with any Government or authorities, supreme, municipal, local or otherwise, and to obtain from any such Government or authorities any rights, concessions, charters and privileges which may be thought conducive to the Company's objects, or any of them;

(18) To purchase or otherwise acquire and undertake all or any part of the business, property, or goodwill and liabilities of any company, corporation, society, partnership, or persons carrying on, or about to carry on, any business which this Company is authorized to carry on, or which is in any respect similar to the objects of this company, or which is conducive to being conducted so as directly or indirectly to benefit this Company, or to the business of this Company, and to enter into partnership or into any arrangement with respect to the sharing of profits, union of interests, or amalgamation, reciprocal concession, or co-operation, either in whole or in part, with any such company, corporation, society, partnership, or persons;

(19) To dispose of, by sale, lease, under-lease, exchange, surrender, mortgage, or otherwise, absolutely, conditionally, or for any limited interest, all or any part of the undertaking, property, rights, or privileges of the Company, as a going concern or otherwise, to any public body, person, society, or association, or to any person or persons, for such consideration as the Company may think fit, and in particular for any stock, shares, debentures, debenture stock, securities, or property of any other company;

(20) To promote or form, or assist in the promotion or formation of any other company or companies, either for the purpose of acquiring, working, or otherwise dealing with all or any of the property, rights and liabilities of this Company, or any property in which this Company is interested, or for any other purpose, with power to assist such company or companies by paying or contributing towards the preliminary expenses, or providing the preliminary expenses, of the formation, or by whole or part of the capital thereof, or by taking or subscribing for shares, preferred, ordinary, or deferred, therein, or by lending money thereto upon debentures or otherwise; and further, to pay out of the funds of the Company all expenses of and incident to the formation, registration, carrying out of the share or loan capital, including brokerage and commissions for obtaining applications for, or placing or guaranteeing the placing of, the shares, or any debentures, debenture stock, or other securities of this or any other company, and also all expenses attending the issue of any certificate or notice, or the printing, stamping, and circulating of proxies or forms to be filled up by the shareholders of this, or connected with this or any other company; and to undertake the management and secretarial or other work, duties, and business of any company, on such terms as may be determined; or to obtain, or in any way assist in obtaining, any Provisional Order, or Act of Parliament or other necessary authority, for enabling this or any other company to carry any of its objects into effect, or for effecting any modification of its or any other company's constitution, or to procure this or any other company to be incorporated, registered or incorporated, if legalized, registered or incorporated, in any country or state in which it may, or may propose to, carry on operations; to open and keep a colonial or foreign registry or registers of this or any other company, in any British Colony or Dependency, or in any foreign country, and to allocate any number of the shares in this or any other company to such register or registers;

(21) To give the call of shares, and to

confer any preferential or special right to the allotment of shares on such terms and in such manner as may seem expedient;

(23) To distribute any of the property or assets of the Company among the members in specie, or otherwise;

(24) To do all or any of the above things in any part of the globe, either as principals, agents, contractors, trustees or otherwise, and either alone or in conjunction with others, and either by or through agents, sub-contractors, trustees or otherwise; with power to appoint a trustee or trustees, personal or corporate, to hold any property on behalf of the Company, and to allow any property to remain outstanding in such trustee or trustees;

(25) To do all such other things as are incidental or may be thought conducive to the attainment of the above objects, or any of them, and so that the word "Company" in this Memorandum, when applied otherwise than to this Company, shall be deemed to include any partnership or other body of persons, whether corporate or unincorporate, and whether domiciled in the United Kingdom or elsewhere, and the objects specified in each of the paragraphs of this Memorandum shall have as herein otherwise expressed, be regarded as independent objects and accordingly shall be in nowise limited or restricted (except where otherwise expressed in such paragraph) by reference to the objects indicated in any other paragraph, or the name of the Company, but may be carried out in as full and ample a manner, and continued in as wide a sense, as if each of the said paragraphs defined the objects of a separate, distinct, and independent company.

CERTIFICATE OF IMPROVEMENTS.

NOTICE.

"Cascade" "California" and "Royal Kootenay" mineral claims, situated in the Trail creek mining division of West Kootenay district. Where located: On Grenville mountain, near Iron creek.

Take notice that I, William B. Townsend, F. M. C. No. B30638, acting as agent for the "Cascade" Gold Mining & Milling company, limited, of Rossland, Free Miner's Certificate No. B4294, intend, sixty days from the date hereof, to apply to the Mining Recorder for a Certificate of Improvements, for the purpose of obtaining a Crown grant of the above claim.

And further take notice that action, under section 37, must be commenced before the issuance of such Certificate of Improvements.

Dated this 27th day of December, A. D. 1900.

1-13-100. WM. B. TOWNSEND.

CERTIFICATE OF IMPROVEMENTS.

NOTICE.

"Bonanza No. 3," "Our Hope," "Bonanza No. 3 Fraction," "Our Hope Fraction," situated in the Trail creek mining division of West Kootenay district. Where located: On St. Thomas mountain, near Grenville mountain.

Take notice that I, Wm. B. Townsend, F. M. C. No