

CARLYLE'S REPORT.

Continued from Page 10.

steep mountain sides and can be worked by tunnels, and the cost of mining is low, requiring little or no machinery, capital will be necessary mostly when tramways and concentrators are to be built, or in some cases for hoisting plants and pumps when tunnel sites may not be available.

Many of these mines are located near the summits of the high, precipitous mountains, at an elevation of 5,500 to 6,500 feet above sea level, where erosion has cleared away nearly all debris from the veins, but lower down also on the mountain sides and in the valleys, are being found other veins or those discovered first much higher up, to the highest of which run good trails or wagon roads or else wire rope tramways. The snow that lies deep on these summits during the winter is in nowise detrimental to mining operations, as most work is done after its fall, when the ore can be dragged down the smooth snow trails in rawhides in larger loads and at lower prices than are possible in the summer time, but the tracks of snowslides must be carefully avoided.

During 1896, 18,215 tons of ore yielded 2,141,088 ounces of silver and 19,210,666 pounds of lead, or an average of 117.4 ounces of silver per ton and 52.7 per cent lead which would have a net profit of about \$75 per ton, while many carloads were shipped that yielded from 300 to 400 ounces of silver per ton.

The Slocan Star has of course the largest share of high grade ore yet found in this district, and we are kindly permitted to state that from 11,529 tons of ore and concentrates sold during the last three years, 912,600 ounces of silver and 13,482,000 pounds of lead have been paid for by the smelters, and of these amounts 7,000 tons yielded 600,000 ounces of silver and 9,000,000 pounds of lead during the past season of 1896.

Many of the veins are small, varying from 2 to 3 inches in width to 20 to 30 inches of solid ore, but the high value of silver at present makes this ore very profitable together with the low cost of breaking ground. The small Reco Good-enough vein, the width of which is measured in inches, is probably the richest vein yet mined, as from the smelter returns of about 600 tons the average was 407 ounces of silver per ton and 42 per cent lead. The high percentage of lead makes this ore a very desirable one for the smelters and the lead contents are usually sufficient to pay the freight and treatment charges and the duty charged on the lead.

At no time in the history of this district have so many mines had high grade ore exposed, and of such mines can be named among others the Slocan Star, Ruth, Wonderful, Monitor, Idaho, Alamo, Cumberland, Ivanhoe, Queen Bess, Wild Goose, Payne group, Slocan Boy, Washington, R. E. Lee, Last Chance, Noble Five group, Reco, Good-enough, Blue Bird, Antoine, Surprise, Rambler, Best, Dardanelles, Northern Belle, Whitewater, Wellington, Charleston, Lucky Jim, London Hill, Beel and Tenderfoot, Fisher, Maiden, Thompson group, Galena, Fairy, Enterprise, Neepawa, Two Friends, Howard Fraction.

The Silver King silver-copper mine of the Hall Mines Co., Ltd., the Poorman gold (quartz) mine, and some small placer workings, have yielded all the production credited to this district, but other mines will be added ere long to this list. Since the completion of the smelter at Nelson there has been greatly increased activity at the mine of this company.

The Silver King mine has now shipped 31,000 tons of ore that yielded 800,000 ounces of silver and 2,500,000 pounds of copper, and the development of the property is rapidly being pushed so as to permit of a greatly increased output, while the smelter is being increased so as to undertake the treatment of all classes of ore as may be bought in the market.

The Poorman gold mine has given up about \$100,000 from its quartz ledge, and other properties in this locality that have similar veins are now under bond and will be worked.

The new district, known as the Salmon River country, lying south of Nelson to the boundary, and traversed by the Nelson and Fort Sheppard railroad, was not visited, but during the past year many claims were staked off on gold and silver leads on the ridges, between which run the tributaries of this river. This winter considerable work is being done here, and during the coming season much greater interest will be shown in these veins, in which it is stated, ore similar to that of Rossland, and also gold-silver quartz with galena and other sulphides have been discovered, assays of which have given high values. See short description below by Mr. McConnell.

Ainsworth.
The output from Ainsworth for 1896 was much lowered by the cessation early in the year of mining on the Blue Bell, in which, it is reported, the ore has become rather low grade for present conditions, but in several of the other mines west of the town of Ainsworth, considerable progress was made.

The Skyline, No. 1, Blue Bell, Highlander, Little Phil, Mile Point, Neosho, Sunlight and Tariff shipped ore, much of which was the silver, and the remainder galena, which does not carry as much silver as the Slocan veins, but averages 30 to 40 ounces in the solid ore.

This district suffered especially in the decline of silver prices, but now vigorous prospecting is being done once more on both sides of the lake, and new mining enterprises are being inaugurated. The town of Kaslo, the eastern entrance to the Slocan, is growing rapidly, and steamers run daily to Nelson to connect with the railroads, while the only public sampling mill in Kootenay is here located.

Production.
In the following table the tonnage is the net weight, i. e., with the moisture in the ore, amounting from 1 to 6 per cent deducted.

(b.) The silver and gold are given in fine ounces and represent the amount of each paid for by the smelter, or 95 per cent of the assay value.

(c.) The price of gold is estimated at \$20 per ounce; of silver for 1896, 65.3 cents, and for 1896, 67 cents per ounce.

(d.) The lead is the total amount paid for by the smelters, or 90 per cent of the assay value, and the price the average of the New York quotations for the year, i. e., for 1896, \$3.23 per 100 pounds, and for 1896, \$2.98 per 100 pounds.

(e.) The price of copper is estimated at 5 cents per pound, as paid by the smelters, but the price received for the

matte from the Hall Mines company is not known.

(f.) This table represents the amount and value of the ore actually paid for, as per smelter returns received during the year.

(g.) The ton is 2,000 pounds.

Slocan.

	1895	1896
Gold.....	23,300	120
Silver.....	742,487	1,431,609
Lead.....	315,070	574,479

Total value.....\$1,057,677 \$2,010,048
Total tonnage, ore and concentrates, 1895, 9,649; 1896, 18,215. Total number of mines that shipped in 1895, 30; 1896, 42. Total number of miners at work in 1896, 1,000.

The number of mines shipping may be increased by adding some that have sent out very small lots of ore.

Nelson.

	1895	1896
Gold.....	25,300	10,320
Silver.....	32,387	423,413
Copper.....	5,621	111,896

Total value.....\$ 63,608 \$ 545,529
Total tonnage, 1895, 1,148 tons; 1896, 30,160 tons. Total number of mines producing, 1895, 5; 1896, 4. Total number of miners at work in 1896, about 350.

Ainsworth.

	1895	1896
Silver.....	\$ 71,785	\$125,480
Lead.....	217,185	64,100

Total.....\$388,944 \$189,589
Total number of mines shipping—1895, 8; 1896, 9.

Tonnage cannot be stated, as the number of tons mined at the Blue Bell mine was not ascertained, but from the other mines in the district there were shipped: 1895, 2,208 tons; 1896, 1,664 tons. Total number of miners at work, about 200.

The decrease in the amount and value of the ore shipped during 1896 is mostly due to the suspension of work on the Blue Bell.

Amount of Ore Shipped as Per Customs Returns.

Upon the shipment of ore to the United States a declaration is made in the outward entry of the contents and value of the ore, but the duties are not collected upon this statement, the ore being shipped in bond to the smelters, and the duty charges determined from the smelter returns. There will be, necessarily, differences between these returns and those given above, in that in the declarations the exact values are not given, only the approximate; and, again, the above tables give the smelter returns received during the year, the customs returns give the amount of ore shipped during the year; hence, for most of the ore shipped in December the smelter returns coming back in January, the returns are credited to the year in which the smelter returns are received. The gross values were determined by calculating the value of each metal at its average price for the year. The tonnage includes the shipments of ore, concentrates, base bullion and matte.

Slocan.

YEAR.	TONS.	GROSS VALUE.
1894.....	4,417	\$ 572,350
1895.....	8,828	942,094
1896.....	17,975	2,010,048
Totals.....	31,220	\$3,524,492

Nelson.

YEAR.	TONS.	GROSS VALUE.
1894.....	819	\$ 68,823
1895.....	348	38,120
1896.....	2,448	493,225
Totals.....	3,406	\$500,168

Ainsworth.

YEAR.	TONS.	GROSS VALUE.
1894.....	18	\$ 16,195
1895.....	13,938	384,677
1896.....	5,408	210,918
Totals.....	19,477	\$511,790

The above constitutes the first five pages of Mr. Carlyle's report. Following it are 55 pages, giving information in detail on all the subjects touched on above. The means of transportation are described at length. General geology of the several districts is also gone into at length, the reports of the Dominion Geological survey being liberally drawn on.

The principal mines of the Slocan, Nelson and Ainsworth divisions are then described in detail on the same lines as in Mr. Carlyle's report on Trail Creek.

SULLIVAN CREEK MINES.

Good Assays Reported From the Denmark and Beaver-Trail Creek Notes.

TRAIL, Feb. 4. (Special.)—John Henderson, owner of the Denmark and Beaver claims on Sullivan creek, which have been incorporated under the title of the Queen Victoria Gold Mining company, was in Trail this week, and will leave shortly for Lincoln, Neb., his old home. He says they have 55 feet of tunnel, which is going through a lead 65 feet. An assay is made to every two feet, the last one showing \$24.30 in gold. The company was incorporated three months ago, and the work already done was accomplished in the last two months.

The property is within seven miles of Rossland, and is close to the Heather Bell group, of which Mr. Henderson was the locator. Supplies are on hand for two months ahead. All the operators along Sullivan creek have subscribed to a fund for a wagon road, and the government will be asked to lend some assistance.

A daughter has been born to Mrs. David Fotheringham. Mr. Fotheringham, who was recently the chief accountant at the smelter, is now in the employ of the Le Roi company.

E. S. Fraser, E. A. Chase and E. S. Gardner have formed a partnership and erected a factory for the manufacture of all kinds of wire goods.

The Kate L., a promising property in the Ainsworth district, has been bonded by J. N. Knight, of Trail. Mr. Knight has been residing in Spokane during the winter, but will soon bring his family to Trail.

Harry Boss, clerk at the Crown Point, has gone to Rossland to collect \$8,500 from the sale of the Hunter and Trapper mine in the Lardard country.

To Incorporate Nelson.

NELSON, Feb. 4. (Special.)—The project of incorporating Nelson is meeting with decided favor and some of the most prominent business men of the town are at the head of the movement. They are personally making a canvass of the town with the petition and a public meeting will be held Friday night to speed the matter along. The people are alive to the importance of incorporation, and there is a little or no opposition. This time the best element has the matter in hand and a special act will be asked for.

To get all the news of the Boundary country you must read THE ROSSLAND MINER.

Kootenay and Northwest Mining Co., Limited Liability.

Capital Stock 1,000,000 Shares.

Par Value \$1.00.

FULLY PAID AND NON-ASSESSABLE

TREASURY STOCK 400,000 SHARES.

TRUSTEES.

James Hampton.

N. L. McInnis.

Wm. Drever.

Rossland.

Head Office, Rossland, B. C.

MINE

THE BLUEBIRD.

Description of Property.

The Bluebird mineral claim covers about fifty acres and is situated on Green Mountain, four miles northwest of Rossland and about a mile from the Gold Star mine. Considerable prospecting and surface work has been done on the property disclosing a wide and strong vein running through it from east to west. At one point a pit has been opened for a depth of four feet and a length of about eight feet. This cut is all in vein matter, showing no walls at either end. Assays from the ore taken out of this cut ran from \$3 to \$7 per ton in gold.

Plan of Development.

The management proposes to start a tunnel on the vein beginning at the crosscut above described. The ground slopes sharply at this point and a depth of 100 feet will be gained in driving the same distance. When the hundred foot station is reached crosscuts will be driven both ways to determine the width of the ore body.

SHARES. A small block of stock will be put on the market at

TWO CENTS A SHARE.

To defray the expenses of this work. For shares or further particulars call on or address

WM. SUTHERLAND, Broker,

P. O. Box 441. Smith-Hewitt Bldg.

ROSSLAND.

To Talk to Capital in the East
You must Advertise in the

Toronto Mail and Empire

The Organ of the Great Conservative
Party of Canada.

The Mail and Empire is to Ontario what the Times is to England or the New York Herald to the United States.

Address: THE MAIL, Toronto, Canada.

Spokane Coffin Factory Co.,
Manufacturers of

Caskets and Coffins.

Of every description. We have in connection with our factory an experienced Undertaker and Embalmer. Telephone orders a specialty. Our office is open day and night. 115 and 121 Post St., SPOKANE, WASH.

QUEEN'S HOTEL

McGAW & WINNETT, Proprietors.

One of the largest and most comfortable hotels in the Dominion of Canada, being adjacent to the lake, commands a splendid view of Toronto Bay and Lake Ontario. It is well known as one of the coolest houses in summer in Canada, and is elegantly furnished throughout. Rooms en suite with bath rooms attached on every floor.

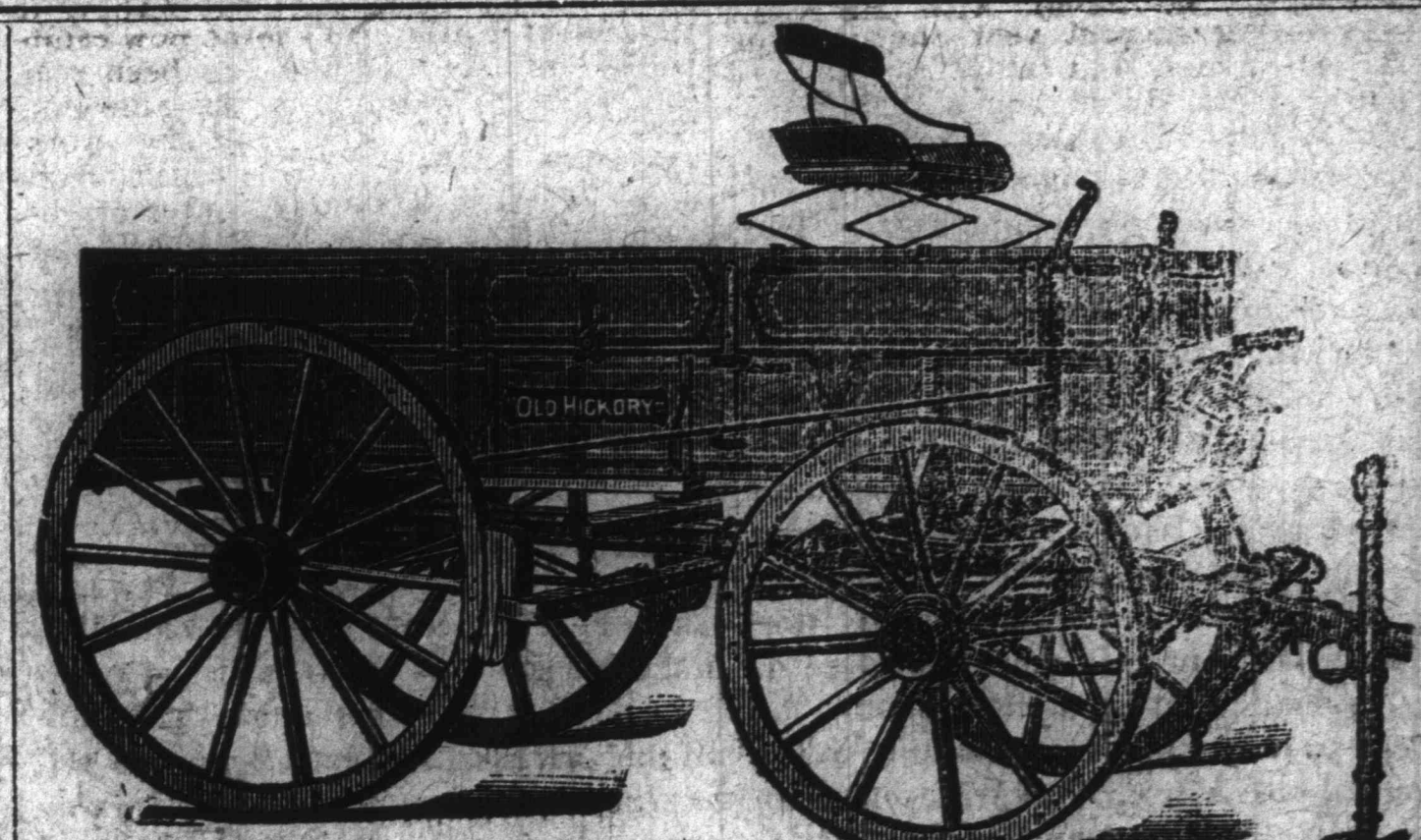
THE QUEEN'S has been liberally patronized by royalty and nobility during their visits to Toronto, and among those who have honored it with their patronage are: His Imperial Highness the Grand Duke Alexis of Russia; Their Royal Highnesses Prince Leopold, Prince George, Princess Louise and the Duke and Duchess of Connaught; the Marquis of Lorne, the Earl and Countess of Dufferin, the Marquis and Marchioness of Lansdowne, Lord and Lady Stanley of Preston, the Earl and Countess of Aberdeen and the best families.

TORONTO, CANADA.

Rolt & Grogan, Mining Brokers, Insurance and General Commission Agents.

MONEY LOANED FOR BUILDING PURPOSES.

Burns' Bldg., Next to Kootenay Hotel, Columbia Ave., Rossland.



Union Warehouse & Machine Co.,

Manufacturers' Agents for

Farm and Freight Wagons, Vehicles and Agricultural Implements of All Kinds.

SEND FOR OUR CATALOGUE, MAILED FREE ON APPLICATION.

Spokane, - - Washington

BRUSHES

For Painters, Varnishers, Kalsominers, Artists, etc., Household, Toilet and Stable Use.

MANUFACTURED BY CHAS. BOECKH & SONS,

Always Reliable and as Represented.

TORONTO, ONT.

Toronto Mining Agency
Mining Brokers.

We are prepared to place on the market throughout the eastern provinces the treasury stock of mining companies in Trail Creek, Boundary, Slocan and other British Columbia mining districts. 69 YONGE STREET, TORONTO, ONT.

M. R. GREGG, Manager.

JAMES C. SHIELDS, Secy-Treas.

Burlington
Route

CHICAGO

NEW SHORT LINE
FROM
MONTANA, IDAHO
AND
PUGET SOUND

OMAHA

A. C. SHELTON, General Agent, 250 Washington St., PORTLAND, ORE.