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THE MINING REVIEW.

VOL. I.

ROSSLAND, B. C., MAY 1, 1897.

No. 33.

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perience in mines and mining, three and one-half years in the
Trail Creek region; nearly two years in the Le Roi Mine.

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MINING NOTES.

A magnificent showing of ore has been developed in the Monte Cristo. For some time past the lower tunnel has had a streak of ore on the hanging wall side from which very good values were occasionally obtained. A few days ago a crosscut was started. Nine feet of solid ore has been broken through without the hanging wall having been found. The drillings from a five-foot hole on Thursday assayed \$17.35. The general improvement in assay returns leads the management to expect a big body of ore of paying grade. This crosscut is at a vertical depth of 300 feet.

The final payment on the Zilor was made yesterday and the property turned over to the company. As soon as the snow goes off the ground and the surface water has drained off development work will be resumed.

The showing of ore in the Kootenay mine is one of the marvels of the camp. The ore dumps are all full of ore which has been taken out in doing development and which cannot be moved away from the mine on account of the bad roads.

After the 1st of May work is to be resumed on the Cliff on a large scale and regular shipments will commence. The pay chute of ore has now been sufficiently developed to make big shipments possible.

An upraise to the surface has just been completed from the drift in the Iron Mask. It is in good ore all the way, the width varying from three to five feet. Stopping will be commenced shortly and much larger shipments may be expected.

The R. E. Lee has been pumped out and after long inactivity work is about to be resumed on it.

The Orphan Boy has been sold by the sheriff at the instance of the president of the company, whose conduct in the whole matter may be justifiable but has certainly been most peculiar.

It is rumored that the sale of the Commander is practically an accomplished fact. And it is reported from London that a company is being formed to purchase the Jumbo.

The United States is still considering the question of placing a duty on copper ore. By superior economic mining, smelting and refining the United States can compete with the cheap labor of Spain in the production of copper, and already produces far more than is consumed at home. The producers have unanimously protested against the proposed duty, which will divert raw material from United States furnaces for the finished product, of which the United States has a splendid market. Such a state of affairs reads like a diagnosis of dementia, but it is a fact.

The City of Spokane has been closed down and the property under bond by the Yale-Lilloet & Fraser River Company at Waterloo has been abandoned. This company shows a brilliant if short career of reckless waste and extravagance. Its inception and management have been a standing menace to the best interests of British Columbia. Messrs. Horne-Payne, F. S. Barnard and Forbes G. Vernon have a good deal to answer for. The early disappearance of their names as in any sense representing British Columbia mining is a likely and desirable consummation.

The War Eagle has now more ore blocked out than could be shipped at the present rate in a year. The mine looks better today than it ever did. It is very unlikely that for some time any more ore will be shipped than is taken out in course of development.

The time will come when every big mine in Rossland will have its own matting plant in operation. The large capital required in operating a customs smelter is chiefly used up in maintaining and paying for reserves of ore. The actual construction and operation of a smelter is not out of the reach of any mine capable of producing, say, 100 tons of ore a day.

As the cost of production decreases in arithmetical proportion the number of tons of ore brought above the pay limit increases in geometrical proportion. Cost of production is very high in Trail Creek just now. The reduction of this by say 25 per cent. would mean the multiplication of the output many times. That is why those interested in the camp have such boundless confidence in its future.

The Le Roi mine is now shipping over 1000 tons of ore a week. It is the first mine in British Columbia to get over the 100-ton a day limit and stay there steadily. The Le Roi is in the running to make the greatest gold mine in the world. It is not the greatest now, nor even one of them, but it is not anything like opened up yet.

An item in an Eastern paper mentions a contract as having been let to deliver 5000 tons of ore from the North Star in East Kootenay during a period of three months, and speaks of it as one of the biggest contracts of the kind ever let in British Columbia. There must be a mistake somewhere.

With the output of ore steadily increasing and the appearance of the mines in all sections of the camp steadily improving, the present dulness in speculative stocks is bound eventually to have a good effect. Prices have very little further to fall before the heavy weight investor comes in and has something to say. It only needs the advertisement of the fact that prices are lower in Trail Creek to bring lots of men back who have been here and went away without investing.

CRIPPLE CREEK PRODUCTION.

Mining men in Kootenay should find much to encourage in the figures of Cripple Creek's output as given in the Engineering and Mining Journal, which says:

"Ore shipments from Cripple Creek continue to increase and in March for the first time the values exceeded \$1,000,000 in a single month. This total was made up by 6,459 tons smelting ore averaging \$89 per ton, and 17,136 tons milling ore averaging \$25. The total shipments were therefore 23,595 tons of ore averaging \$42 per ton, and the total value \$1,003,251. It is to be noted that this large amount was secured chiefly by an increase in the quantity of low-grade ore, which goes to the mills. These ores in March furnished 71.4 per cent. of the tonnage and 42.7 per cent. of the values, though their average grade was so much less than that of the smelting ores.

"For the quarter ending with March there was a total production reported of 59,485 tons of ore, 20,461 tons being smelting ore and 39,024 tons milling ore. The total value of the former was \$1,657,961, and of the latter \$996,400, making the full value \$2,654,381 for the quarter. This growth of the camp is very gratifying."

Does not the output of Kootenay compare favorably with that of the Colorado camp?

AN OUTSIDE VIEW.

There is reason to expect a notable activity in the early summer among the new Canadian gold-fields. Already a large number of miners are gathered at Northport (Wash.) Rossland and Fort Steele, in British Columbia, waiting the disappearance of the snow before commencing vigorous prospecting. It will be three or four weeks before this very mountainous region is open to the explorer. Similarly Rat Portage, the distributing point for the gold-fields of Western Ontario, is crowded with eager gold seekers, and it seems certain that the picturesque Lake of the Woods will this summer undergo a very rapid development. The Rainy River District, to the southeast, is also the objective point of several serious enterprises. Thus amid the general impetus given during recent years to the gold-mining industry of the world, the Dominion of Canada is destined to win a more commanding position than it has hitherto done.—Eng. & Mining Journal.

YOU WILL FIND

RELIABLE MINING NEWS

AND CORRECT

STOCK QUOTATIONS

IN THE

MINING REVIEW

THE CROW'S NEST PASS RAILWAY.

The following appears under the signature of P. A. Farrell in the Toronto Globe: It is doubtful whether such disgraceful misrepresentation of public opinion of British Columbia is more discreditable to P. A. Farrell or to the Toronto Globe:

THE CROW'S NEST RAILWAY.

The development of this wonderful district of East Kootenay entirely depends upon the building of the Crow's Nest Pass railway. As at present surveyed, the line will pass within ten miles of Kimberly and right through the St. Eugene ground.

There is also a free gold district in East Kootenay, that of Perry Creek. Perry Creek is intersected by numerous ledges of free gold bearing quartz, and with the advent of the railway Perry Creek will be a desirable locality for capital as well as for industrious workmen, but, as I have said, everything depends upon the quick construction of the Crow's Nest Pass railway. This railway will open British Columbia to capital, enterprise and labor more rapidly than anything else possibly can do. Considerable opposition has been developed against this proposed railway. One of the members of Parliament from British Columbia has made himself particularly obnoxious to the people of Kootenay by his opposition to the charter granted the British Columbia & Southern railway. His opposition has run counter to the opinions and judgment of not only his own constituents but the entire people of British Columbia. The charter and land grant of the British Columbia & Southern were acquired by the promoters of that concern, when they were like a voice crying in the wilderness, unheeded and scoffed at when they endeavored to convince capitalists and politicians that the richest and most prolific wealth-producing region in the world would be opened up for the benefit and betterment of the people of British Columbia and the Dominion of Canada. After nearly two years of incessant striving, urging and entreating, they succeeded, through certain discoveries, in convincing the most incredulous of the wealth and resources of this wonderful country, and the men who toiled and worked in promoting this scheme for the building of the railway are surely entitled to their reward. The petty attempts to despoil them of this reward merely discredits the spoilers, but the people of British Columbia, on the whole, most certainly have no sympathy with the course pursued by critics, who never in any way, by word or deed, have helped to develop the marvelous resources that are now being opened up in British Columbia. The course of the Toronto Globe in urging justice and fair play and the quick construction of the Crow's Nest Pass railway has won enthusiastic approval from the people of the entire Province of British Columbia, and they are gratified beyond measure that they have found in the great leading paper of Canada so much disinterested and splendid advocacy.

REMARKABLE COPPER ORE.

There are on exhibition at the office of William Bannison & Co. some very remarkable copper specimens, sent by Mr. J. W. Cover, of the firm, from the Mashell river, near Tacoma. The ore is a reddish, clayey substance, in which the grains of native copper are plainly visible, while leaf copper, in sheets the thickness of writing paper, and running 100 per cent. This property, of which a reprinted description is given below, has been secured by William Bannison & Co.

"The main copper proposition is not an undeveloped prospect. It is a solid ledge of ore 402 feet in width running northeast and southwest and has been traced by croppings for a distance of seventeen miles. On this ledge there have been sunk five shafts, ranging in depth from seven to twenty-five feet. The croppings give an assay value of six or seven per cent. of copper and the ore from the bottom of the twenty-five-foot shaft assays nearly fifteen per cent. The ore is free-milling, and can be easily handled at a very low cost. Yesterday morning Mr. C. P. Topliff, the manager of the mines, under the direction of Mr. Rosenfelt, weighed out sixteen ounces of ore taken from the dump in front of the twenty-five-foot shaft. This ore was crushed in a hand mortar and washed out in a

(Continued on page 3)

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CAPITAL \$1,000,000, in Shares of \$1.00 Each, Fully Paid and Non-Assessable.

TREASURY - - - 300,000 Shares.

This Company has been formed to operate the Ibez Mineral Claim, adjoining the famous Silver Bell mine.

There are three distinct ledges on the property, including the main ledge of the Silver Bell.

Development work is now in active progress. Five men are employed.

First block of Treasury Stock on the Market at 6 cents.

Tunnel now in 140 feet.

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TIME CARD NO. 1

GOING WEST	DAILY	GOING EAST
Leave 8:00 a. m.	Kaslo	Arrive 3:50 p. m.
" 8:26 "	South Fork	" 3:15 "
" 8:51 "	Spruille's	" 2:45 "
" 9:17 "	Whitewater	" 2:00 "
" 9:43 "	Bear Lake	" 1:48 "
" 10:18 "	McGuigan	" 1:33 "
" 10:30 "	Bailey's	" 1:21 "
" 10:39 "	Junction	" 1:18 "
Arr. 10:50 "	Sandon	Leave 1:00 "

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Leave.	ROSSLAND	Arrive.
10:30 a. m.	3:45 p. m.
9:00 a. m.	NELSON	5:00 p. m.
7:30 a. m.	SPOKANE	6:30 p. m.

Passengers for Kettle River and Boundary Creek connect at Marcus with stage daily.

COLUMBIA & WESTERN RAILWAY

Time Table in Effect February 4, 1897.

No. 2. PASSENGER, Daily except Sunday—	
Leaves Rossland	7:00 a. m.
Arrives at Trail	8:00 a. m.
No. 4. PASSENGER, Daily, except Sunday—	
Leaves Rossland	4:00 p. m.
Arrives at Trail	5:00 p. m.
No. 3. PASSENGER, Daily except Sunday—	
Leaves Trail	8:45 a. m.
Arrives at Rossland	10:00 a. m.
No. 1. PASSENGER, Daily—	
Leaves Trail	5:45 p. m.
Arrive at Rossland	7:00 p. m.

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The property of the company consists of three adjoining full claims, known as "Pure Gold Group," and named the "Pure Gold," "Trilby" and "Escort" mineral claims, all prior locations, with perfect titles, vested in the company. There is a well-defined ledge 40 feet wide, traceable through the claims for a distance of 2,000 feet. Six men are now at work on the Trilby and good assays have been obtained. Twelve feet from the mouth of the tunnel an assay of over \$20 was obtained. Work will be carried on without cessation, and good results are confidently anticipated.

Fifty Thousand Shares of Development Stock are now on the market at 5 cents.

Prospectus and full information will be furnished on application to

ALBERT P. HUNTER, Sec. and Man., Rossland, B. C.

REMARKABLE COPPER ORE.
(Continued from page 2)

gold pan. The result was nearly two ounces of pure metallic copper, in the shape of fine particles almost as fine as flour.

"For years the people of Eatonville and the surrounding country have known of the existence of this large body of ore, but did not realize its value. The first location was made on the property nearly ten years ago, and since that time it has been relocated many times. The out-cropping that first attracted attention contained the sheets of copper-colored metal that were found sticking in crevices of the rock, and this when assayed showed ten per cent. of copper with a trace of other mineral. These sheets are about the thickness of a common newspaper, and the upper crust of the ledges is thickly studded with them. As a shaft is sunk these sheets disappear and the solid ore takes its place, growing richer and richer as the drill goes down.

"On the left bank of the river four shafts and an open cut have been driven, but the character of the ore is the same as that found in the discovery shaft. The work on the left bank has demonstrated that the ledge is 402 feet in width with clearly defined walls, and that the supply is inexhaustible. The vein runs through the mountain which separates the Mashell river from the Little Mashell, forming the beds of both rivers where it crosses them, and then takes a southwesterly course, across the Nisqually river and disappears in the wilderness seventeen miles away.

"Other copper ledges, almost as large, have been discovered northwest of Eatonville and croppings are found almost the entire length of the Mashell, Little Mashell and Nisqually rivers."

MINERAL PRODUCTION OF BRITISH COLUMBIA FOR 1895-96.

The Engineering and Mining Journal gives the following excellent summary of the report of the Minister of Mines lately issued:

"The figures given below show the mineral production of British Columbia in 1895 and 1896, and are from the report recently issued by Mr. James Baker, Minister of Mines. Like all the reports of the Province, these are especially to be commended for the promptness of their issue. The production reported is as follows:

	1895.		1896.	
	Quantity	Value	Quantity	Value
Gold, from placers. oz.	24,084	\$ 181,683	27,201	\$ 514,026
Gold, from quartz mines..... oz.	39,264	785,271	62,250	1,214,182
Silver..... oz.	1,499,522	977,239	3,135,343	2,100,697
Copper..... lbs.	952,840	47,042	3,818,550	190,326
Lead..... lbs.	16,475,464	532,255	22,199,877	721,354
Coal..... tons	939,654	2,818,962	846,235	2,327,145
Coke..... "	462	2,260	615	3,075
Other materials... val.	.....	10,000	.....	15,000
Total values....	.....	\$5,655,302	.....	\$7,146,425

The gold production is given in fine ounces, valued at \$20 per ounce. The placer production showed an increase of \$62,343, or 11.8 per cent. over 1895, but was still far below that of the active placer mining period of thirty years ago. The maximum output of

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ROSSLAND, B. C.

placer gold reported was \$3,913,593 in 1863. The gold from quartz mines, on the other hand, was greater in amount than ever before reported. The total gold reported in 1896 was 89,460 ounces, valued at \$1,788,265.

The large increase in silver, copper and lead came from the new mines of the Cariboo and West Kootenay districts, where very rapid development has been going on. The production of the quartz mines was comparatively limited up to four years ago, and the present condition has been reached since that time. The growth of this work is shown by the following table, which gives the production of lode mines for ten years past:

	Gold, oz.	Silver, oz.	Lead, lbs.	Copper, lbs.	Values.
1887.....	.....	17,600	.....	.....	\$17,331
1888.....	.....	79,750	.....	.....	75,000
1889.....	.....	53,192	.....	.....	47,873
1890.....	.....	70,427	113,000	.....	79,753
1891.....	.....	4,500	588,061	.....	29,007
1892.....	.....	77,160	1,768,420	.....	139,416
1893.....	1,170	227,000	2,135,023	.....	207,400
1894.....	6,252	746,379	5,662,523	324,680	781,342
1895.....	39,204	1,496,522	16,475,464	952,840	2,342,327
1896.....	62,250	3,135,343	24,199,877	3,818,550	4,257,179

The values of the total production of metals in 1896 by districts were: Cariboo, \$384,050; Cassiar, \$21,000; East Kootenay, \$154,127; West Kootenay, \$4,002,735; Lillooet, \$33,665; Yale, \$206,078; others, \$15,000; total, \$4,816,955. The divisions of the West Kootenay district show values as follows: Ainsworth, \$189,589; Nelson, \$545,529; Slocan, \$2,019,048; Trail, Creek, \$1,243,360; others, \$14,209; total, \$4,002,735.

With the opening of the Slocan, Trail Creek and Rossland mines, there was a marked increase in the output of gold, silver and lead; while that of copper began about the same time. The total production of gold from lode mines up to the close of 1896 reached \$2,177,869. The production of placer gold from 1858 up to the close of 1896 reached a total amount of \$57,704,855.

Coal production has not increased in recent years, and has fluctuated considerably since it reached its maximum of 1,028,097 tons in 1891. The total pro-

duction of coal from the British Columbia mines up to the close of 1896 is reported at 11,248,759 tons.

Of even greater interest are the indications of our output for 1897. The output for 3 1/2 months from Southwest Kootenay alone has exceeded in value \$2,500,000. It is more than the whole year's output from lode mines in 1895. The output from lode mines in gold, silver, lead and copper during 1897 should be at the most conservative estimate \$7,000,000.

THE ST. MARY'S CAMP.

Henry Rose, the pioneer prospector of the St. Mary's district, who has spent six years in East Kootenay and who knows more about that region probably than any other man, left yesterday for Pilot Bay en route for his claims. He is interested in nearly fifty claims in the new mineral belt, and while in Rossland displayed some wonderful surface rock, which indicates that the surface showings are unsurpassed in any part of British Columbia. Among the claims in the St. Mary's camp are the following, in nearly all of which Rose has interests: El Capital, Nickle Plate, Rose Group (five claims), King Group (three claims), Mahogany, Champion, Independence, Alta, Iron Horse, Bodie, Willie, Swan No. 5, Lullus, Morning Star, Mogul, Crystal, Spokane, Porcupine, Rossland, Trail, North Star No. 3, Alma, Hillside, Jackson, Monarch, Wright, Treasure, White Grouse, Copper Cliff, North Star No. 2, Mayflower, Sundown, Canary No. 1, Crow's Nest Bass, Black Crow. A number of Rossland capitalists are interested with Rose in these claims, and Oswald Stein accompanies him on this trip in the interests of one syndicate which intends to operate extensively in that district.

NOTICE.

Ninety days after date I intend to apply to the Chief Commissioner of Lands and Works for permission to purchase 320 acres of land on Sheep Creek, commencing at a post marked "A. B. Anderson's N. E. Corner Post," close to B. H. Lee's S. E. Corner Post, running thence South eighty chains, thence West forty chains, thence North eighty chains, thence East forty chains to point of commencement.
Said land is situate in the Osoyoos District of British Columbia.
Dated this 10th day of April, A. D. 1897.
A. B. ANDERSON.

THE MINING REVIEW

A weekly newspaper devoted to the mining interests of Trail Creek District.

Published every Saturday at the office of The Mining Review, Columbia Avenue, Rossland, B. C.

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Six months	\$1 25
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Six months	\$1 50

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Contracts, 1 inch	\$3 per mo.; 2 in. or more, \$2.50 an in. per mo.
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Half page	\$12.50 per insertion, \$40 per month
Full page	\$20.00 per insertion, \$70 per month
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There will be no deviation from these rates.

All business communications should be addressed to A. R. MACDONALD & Co., Proprietors, The Mining Review, Rossland, B. C.

VOL. I. MAY 1, 1897. NO. 33

EDITORIAL NOTES.

THE Rossland council has decreed that none but British subjects shall be employed on city work. No objection can be taken to this. Expenditure by a community on non-productive improvements is one thing. The expenditure of energy in opening up undeveloped productive resources is entirely a different thing. The one is necessary but does not breed wealth, the other does.

EVERY British subject in British Columbia has been directly injured, and his chances of bettering his condition injured, by the alien act just passed.

THE new mineral act retains the free miner's license on working miners and prevents anyone who is not a British subject from taking out a license. Consequently, a citizen of the United States cannot any longer work in our mines. This out Corlisses Corliss. It will result in one of two things—either a wholesale evasion of the law or a diminution of the output of the mines.

WHAT is to be thought of ministers like Turner and Baker who cannot carry the legislature on any question of general principle, but who can rely on a mechanical majority to divert the resources of the country into the pockets of private individuals? And what is to be thought of such a legislature?

J. M. KELLIE voted to retain the tax of \$5 on the wood choppers, ditch diggers, carpenters and other mechanics who happen to be employed by a mining company.

THE editor of THE MINING REVIEW has not yet been disciplined by the government of British Columbia. The effect of what has been done so far has only been to give point and force to the utterances of this paper. No government is strong enough to fight plain spoken truth.

THE legislature of British Columbia has placed itself on the level of the legislative assemblies of the United States by passing a law prohibiting aliens from locating mineral claims. This is a humiliating confession to have to make. There is a kind of unthinking animal for whose consciousness the idea that intercourse between two nations can be mutually advantageous is too big. And of such, apparently, is the legislature of British Columbia. They have forgotten that in placing restrictions upon foreigners they are injuring their own countrymen. If the law recently passed had been in operation during the last five years, where would mining development have arrived at by now? And if it continues in operation during the next five years, by how much will the development of new districts be retarded?

OF course, the citizens of the United States have no reason to complain, and they know it. It works a personal hardship on individuals, but those individuals recognize fully that they have no right to expect better treatment than they have meted out to others, not as individuals but as a nation. But we are hurting ourselves. That is the insane part

Rossland Stock Exchange.

LISTED STOCKS.

Capitalization and number of shares in Treasury are given in hundreds of thousands. Dividend payers appear in *italics*. Other shipping mines, so far as known, are marked by an asterisk * Corrections, properly authenticated, will be gladly received. Sales marked X were made off the Exchange.

	Capital.	Par Val.	Shares in Tr's'y	HIGHEST		LOWEST		TRANSACTIONS.
				Bid	Ask	Bid	Ask	
Alamo	10	1	2		15		12	
Alberta	10	1						
Alki	10	1			12		10	
Argentine	10	1			10		10	
Big Chief	35	1			10		10	
Big Three	9	1			10		7	
Blue Bird	10	1			10		10	
B. C. Gold King	10	1			10		10	
Bruce	10	1			10		10	
Butte	10	1	2½	3	3½	2½	2½	Butte 500, 2½; 1000, 2½; 500, 2½
Caledonia Consolidated	10	1			7		6	
California	25	1			6		6	
Cambridge	10	1	3					
Camp Bird	10	1						
Cariboo	8	1			50		49	
Celtic Queen	7½	1						
Center Star	5	1						
Colonna	10	1	2		25		25	
Commander	5	1	1		22		17½	
Consol.	10	1						
Crown Point	10	1	3					
Cumberland	5	1						
C. & C.	10	1						
Dardenelles	10	1	3		25		25	
Deer Park	10	1	2		18½		17½	
Delacola	10	1	3		1½		3	
Delaware	10	1			12		10	
Dellie	7½	1	2½					
Eastern Star	5	1						
Ellen	10	1			7½		7½	
Enterprise	10	1			20		18½	
Eric	10	1			5½		5	
Evening Star	10	1	1	9	11	7	9	Evening Star 500, 9½
Freeburn	10	1			12		12	
Georgia	10	1						
Gertrude	5	1						
Giant	27½	1			15		15	Giant 10,000, 15 x
Golden Drip	5	1		5	15	6	6	Golden Drip 500, 6
Golden Queen	10	1						
Great Western	10	1	2		13		13	
Grey Eagle	10	1						
*Hall Mines	£3	£1						
Hattie Brown	10	1			6		6	
Helen	10	1						
High Ore	10	1	1		4½		4	
Ilex	10	1	3		6		4½	
Idaho	5	1						
Idler	10	1	3					
Imperial	10	1			5		5	
Independent	10	1						
Iron Horse	10	1						
*Iron Mask	5	1			42		41	
J. X. L.	10	1						
*Josie	7	1	2		48		45	
Jubilee	10	1						
Juliet	10	1						
*Jumbo	5	1						
Knight Templar	5	1						
Kootenay-London	10	1	3					
Le Roi	25	1			7 50		7 50	
Lily May	10	1	2½		20		20	
Mabel	10	1			11		11	
Mary May	6	1	1					
Mayflower	10	1	3		12		11	
Minnesota	10	1						
Monarch	7	1						
Monita	7½	1	1		15	18½	14½	16½
Monte Cristo	10	1	3		10	13	8½	9
Morning Star	10	1				12½	12½	Monte Cristo 1000, 9
Nest Egg	10	1				8½	8	
Nest Egg-Firefly	10	1						
Noble Five	12	1	3		54		54	
Northern Belle	10	1			10		10	
Novelty	10	1	3		6		5	
*O. K.	10	1	2		26		25	
Palo Alto	10	1			4	5½	4	4½
Phoenix	5	1	1		8		3	8
Poorman	5	1			6½	7½	6	6½
Rambler Consolidated	10	1			51		51	
Reco	10	1						
Red Eagle	12	1	5		8		7½	
Red Mountain View	10	1			12		8	
Red Point	10	1			10		10	
Red Top Mountain	10	1			10		3½	Red Top Mountain 1000, 4½
R. E. Lee and Maid of Erin	20	1			8		8	
Rochester	5	1						
Roderick Dhu	10	1			10		9	
Rossland Homestake	10	1			8½		7½	
Rossland Red Mountain	10	1	2½		26		25	
Rossland Star	5	1			15		15	
St. Elmo	10	1	5½	6½	8	6½	6½	St. Elmo 500, 7; 500, 6½; 2000, 6½; 600, 7
St. Paul	10	1			15		15	
Silver Bell	10	1			3½		3½	Silver Bell 1000, 4
Silverine	5	1	1		10		8	
Slocan Star	2½	50						
Southern Cross Consolidated	10	1						
Sultana	10	1						
Sunshine	5	1						
Union	6	1			6		5	
Vancouver Group	10	1						
Virginia	5	1			11½		8½	
War Eagle Consolidated	2	1						
Washington	10	1						
West Le Roi Josie	5	1						
White Bear	20	1						
Wonderful	10	1	4		11		8½	
Yale	10	1			1½		1½	Yale 350, 1½ x
Young British America	10	1			3½		3½	

UNLISTED STOCKS.

Capitalization and number of shares in Treasury are given in hundreds of thousands. Dividend payers appear in italics. Other shipping mines, so far as known, are marked by an asterisk * Corrections, properly authenticated, will be gladly received. Sales marked X were made off the Exchange.

	Capital.	Par Val.	Treas-ury.	HIGHEST		LOWEST		TRANSACTIONS.
				Bid	Ask	Bid	Ask	
Athabaska.....	10	1			6		5	
Bean Pot.....	10	1						
Beaver.....	7½	1			3		2½	
Buffalo.....	10	1			10		10	
Cracker Jack.....	10	1			10		1	
Copper Giant.....	10	1			2		2	
Diamond Dust.....	10	1			14		15	Dundee 200, 10 x
Empress.....	10	1			6		5	
Eureka Consolidated.....	5	1			1 60		1 60	
Golden Cache.....	5	1			4		4	
Good Hope.....	5	1			3		2½	Grand Prize 500, 3 x
Grand Prize.....	10	1	4		3		3	
Halifax.....	10	1			20		20	
Heather Bell.....	6	1						
Hill Top.....	5	1						
Hinkley and Black Colt.....	10	1						
International.....	10	1	3½		3½		3½	
Iron Colt.....	10	1			20		5	
Iron Queen.....	10	1			5		4	
Ivanhoe.....	10	1			5		1	
Josie Mac.....	10	1	2					
Kohlnoor.....	10	1	2½					
Little Jim.....	10	1			2		2	
Mascot Fraction.....	10	1			3		1½	
Montezuma.....	10	1	3		7		5	
Mugwump.....	10	1	2½		10		10	
Norway.....	10	1						
Ora Plata.....	2½	1			23½		23½	
Ottawa.....	10	1			25		12	
Ottawa and Ivanhoe.....	10	1			12½		10	
Peoria.....	10	1			10		10	
Pick-Up.....	10	1			1½		1½	
St. Mary.....	5	1						
San Joaquin.....	10	1			12		10	
Silver Bear.....	10	1			9		9	
Stemwinder.....	10	1			10		10	
Tobasco.....	10	1	2					
Vulcan.....	10	1			6		6	
Waneta and Trail Creek.....	10	1			5		5	
White Bird.....								
Yankee Boy.....								
NOT LISTED.								
Elise 500, 7½ x: 200, 7½ x: 200, 7½ x: 500, 7½								
A RECO DIVIDEND.								
The Reco Mining and Milling Company will pay a dividend of \$50,000 to all stockholders of record at noon today. Hereafter this company will pay quarterly dividends.								
This is the fourth dividend paid by the Reco. The first, of \$7,500, was paid in 1895; the second, of \$30,000, in 1896; one dividend of \$100,000 and the present one of \$50,000 have been paid this year, a total of \$187,500.								
"The Reco was located in 1892," said J. M. Harris yesterday, "and is now developed by about 6,000 feet in the seven tunnels. Thirty men are now employed in extending all of the tunnels. The concentrator and tramway recently ordered will be finished by September 1, and within ten days the work of preparation will be commenced. The tramway will be a mile and a quarter in length. When the concentrator and tramway are completed we will commence to mine the vein on the original discovery. This vein will average twelve feet in width on clean and concentrating ore."								
Mr. Harris will leave today for Sandon.—Spokesman.								
BOUNDARY MINING NEWS.								
Prospectors are beginning to flock into the hills in the neighborhood of Christina lake. Last week, it is stated, about 150 men arrived in the camp.								
The contractors sinking on the Republic are making about 1½ feet a day and the ledge has widened to four feet. The shaft is being sunk on the hanging wall.								
As was predicted in a former issue, prospectors are already beginning to strike out for the new field up Kettle river. Several parties left this week with supplies.								
Messrs. Young and Aspinwall, who hold a bond on the Monarch, in Greenwood camp, are visiting Fairview and are expected to arrive in Boundary next week, when a force of twenty men will be put to work on the properties.—Boundary Creek Times.								

E. S. COX.

MINES AND STOCKS.

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Rosland office: Columbia avenue, near Grand Union Hotel.

Represented by GEO. GURD, Secretary.

LE ROI'S DIVIDENDS.

Three hundred and seventy-five thousand dollars—that is the sum the Le Roi mine has paid in dividends since October, 1895. Thirteen dividends have been declared so far by the company, the first on the date named and the last on Thursday. Two of them have been for \$50,000 and the rest for \$25,000.

At a meeting of the Le Roi directors, held on Thursday, the regular monthly dividend was declared. It was for \$25,000, and was payable immediately. The last previous dividend was for a similar sum and was declared March 27.

It was the intention of the company to pay a dividend of \$50,000 this month, but the mud slides and other trouble on the railroads prevented. Delay resulted from these accidents in getting ore to the smelters—"We have cars of ore scattered all along the line in course of shipment," said Colonel W. W. D. Turner, president of the mine.

The dividends paid to date are as follows:

October, 1895.....	\$ 25,000
January, 1896.....	50,000
February, 1896.....	25,000
April, 1896.....	50,000
June, 1896.....	25,000
August, 1896.....	25,000
October, 1896.....	25,000
December, 1896.....	25,000
January, 1897, two dividends.....	50,000
February, 1897.....	25,000
March, 1897.....	25,000
April, 1897.....	25,000
Total.....	\$375,000

—Spokesman-Review.

Ontario's Producers.

By their actual output in bullion must the gold fields of any country be judged, and it begins to look as if when put to this practical test the mines of Ontario will make a splendid showing before the world.

For some time past the Mikado, the Regina and the Sultana have been turning out the precious metal, and this month two other properties in Northwestern Ontario have been added to the list of producers.

These are the Foley and the Empress. Bricks valued at \$6200, being the result of the second mill run of fourteen days on the Foley, have been on exhibition at Wyatt & Co.'s offices for the past two days, and yesterday Aemilius Jarvis received a neat brick from the Empress mine. This brick, which weighs 120 ounces, and is worth between \$1800 and \$2000, is the partial result of the first run of a few days of the Empress ten-stamp mill, and in giving the list the Canadian Gold Fields Deloro mine should not be overlooked, for despite the silence of the officials thereof, this property is from week to week producing bullion.

These actual gold producers, if it is to be remembered, represent four distinct and widely separated districts. The Sultana, Mikado, and Regina are located in the Lake of the Woods country; the Foley mines are on the Seine river, the Empress is in the Jack Fish region, and the Deloro property is down in Hastings county.

The fact, therefore, that gold bricks are coming in from the lot may be taken as proving that has at least a quartet of extensive districts capable of directly lining men's pockets with the yellow stuff.

Facts like these are what will bring outside capital into the province, and by the end of the summer, when half a dozen other properties, such as the Saw Bill, Hawk Bay and Hammond Reef are yielding bullion, it should not be difficult to prevail upon Englishmen and Americans to invest their piles in Ontario.—Toronto World.

Development Companies.

B. C. Gold Fields.....	25	10						
Canada Mutual M. and D.....					12½		12½	
Canadian Gold Fields.....					10		10	
Cromwell M. and D.....	12	1						
London Gold Fields.....					9		10	London Gold Fields 2000, 10
N. American Mining.....								

THE policy of the United States was adopted not to keep aliens out, but to force them into citizenship when they came in. Surely we do not want American citizens to become citizens of Canada. They have made such a glorious hash of their own institutions that the less they meddle with ours the better. Therefore, this legislation must be framed to keep aliens out. O, feeble-minded legislators! Here are our mountains of British Columbia teeming with mines of untold and as yet ungarnered wealth and crying out for the muscle, brains and energy that will redeem them to the uses of civilized humanity, and we debar thousands of experienced men who ask no greater reward for the labor of their lives than the chance of making a few thousand dollars by the discovery and sale of some undeveloped bonanza.

THE location of a mineral claim is not an appropriation of wealth which impoverishes the community to the advantage of the individual, but a discovery which permanently enriches the country in which it is made. And that is the root of the whole question.

WOULD England have been today the seat of the great textile industries they introduced if she had not given the French Huguenots free asylum and opportunity when they fled from oppression at home? Would she today have been the financial centre of the world if she had not afforded to the Jews and Lombards security for life and property and equal opportunity before the law? It has always been our boast that wherever the Union Jack waved there was freedom and equality of opportunity to Jew and Gentile, black man and white. This great democratic ideal has been more nearly fulfilled in the British Empire than among any other people, and has given us a higher and more fervent citizenship than any other nation. And that principle which has made the Empire can alone conserve it. Let us breed good citizenship in aliens by proving that our country's laws are the best for all men to live under.

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ADEQUATE TREASURY

TWO FULL CLAIMS

The RETALIATION, in the Rossland Camp, one claim distant from the famous Deer Park, and possessing the same ledge.

The MAGNET, near the Reco, Slocan Star, etc. Has a true fissure vein. Ore carries very high values in silver and lead.

Work on both claims will be continued without cessation. The Directors have placed 50,000 shares of Treasury Stock on the market at the low price of 7 1-2 cts.

FULL INFORMATION FURNISHED BY ANY OF THE COMPANY'S AGENTS, OR

GEO. E. TOMS. SEC-TREAS.

P. O. BOX 138

ROSSLAND, B. C.

ARIZONA DEVELOPMENTS.

The gold discoveries in Arizona during the past two or three months have been phenomenal. Yuma is a busy scene of enterprise and excitement. Ore in the vicinity runs from \$1000 to \$3000 per ton. A half-million dollars is the offer just made for the Gleason mine. Immense deposits are reported where the dirt all through is worth a dollar a pound. North of Yuma there is as much excitement as in the days of the California fever. South of Yuma prospecting is more recent. In the "Hustler's Rest" mine the shovels literally sparkle with gold, and the value of samples pounded up was estimated variously at from \$500 to \$3000 per ton.

The Tombstone Prospector says that most of the rich finds of Arizona are found by accident. Speaking of the discovery of the Lost Frenchman in Yuma county by Eichelberger, a party of prospectors camped one night on the very ground where the strike was made. The members of the party console themselves by the observation that nobody but an infernal fool would think of looking for gold in such an unlikely locality. But it is in such localities that all the great strikes in Arizona have been made, and almost without exception they have been accidents. The late discovery, near Pierce mine, has been tramped over by prospectors since white men first came into the country, and La Fortuna lay on the old Sonora road traveled for years by thousands of men. The discoverer of La Fortuna was in the frenzy of delirium tremens and afterward admitted that if he had been in his right mind he wouldn't have been in that neighborhood looking for gold.

A PECULIAR WORLD.

This is a peculiar world, says an exchange. One man is saving money to build a house, and another is trying to sell his for less than it cost to build it. One man is spending all he can make in taking a girl to the theatre and sending her flowers, while a neighbor is using what money he has in getting a divorce. One man escapes diseases flesh is heir to and gets killed on a railroad. Another escapes with only a scratch and dies with the whooping-cough. One man stands off his creditors and goes traveling or to the springs, while another stays at home and pays his debts.

APPLICATION FOR LIQUOR LICENSE.

NOTICE is hereby given that at the expiration of thirty days from date hereof the undersigned intends applying to the stipendiary magistrate for West Kootenay District for a license to sell liquor by retail, on the premises known as Barney's ranch, at Barney, situated at the intersection of the Dewdney trail and the Northport wagon road, five miles from the town of Rossland.

Dated this 20th day of March, 1897. B. O'BRIEN

ROBBINS & LONG, Chas. P. Robbins
Leo. H. Long.
ASSAYERS AND CHEMISTS.

PRICES FOR ASSAYING:

Copper only ... \$2 00	Lead, wet assay \$2 50	Antimony ... \$5
Gold and Copper 2 50	Silica ... 2 50	Arsenic ... 5 00
Gold only ... 1 50	Iron ... 2 50	Nickel ... 10 00
Silver only ... 1 00	Zinc ... 3 00	Cobalt ... 10 00
Gold and Silver. 2 00	Sulphur ... 3 00	Coal Analysis 10 00
Lead, fire assay 1 00	Aluminum ... 3 00	

Ten or more samples from same party in any one month, 50 per cent off list prices. Five or more brought in at one time same discount. Special attention given to samples by mail.

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J. B. CAMPBELL.

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NEW 1897 MINING MAPS—Showing Mineral Claims

Map of Mines in vicinity of Rossland and Trail—best map of Trail Creek Camp ever published...	\$1 00
Map of Kettle River, Boundary Creek, and portion of Colville Reservation, from Christina Lake west to Rock Cr	2 00
Map of Trail Creek Mining Division, from Columbia river west to Christina Lake	1 50
Map of North Fork of Salmon River and Wild Horse Creek	1 50
New map of the Shocan Division, giving more information than any map ever published	2 00
Map of Deer Park, lower Arrow Lake	1 50
Map of Murphy and Sullivan Creeks	1 00

Also agents for other publishers mining maps.
Maps of new districts made from time to time as we can procure reliable information.
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ROSSLAND, B. C.

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Our work speaks for itself.

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 First Vice-President—R. Scott
 Ex-Mayor of Galt, Ontario
 Mayor of Rossland.
 Second Vice-President—Jos. B. Dabney
 Treasurer—Geo. E. Toms
 Secretary—R. C. Macdonald
 Mining Engineer J. L. Parker

Its Directors are men of known experience, ability and integrity.
 Its operations will not be confined to one section of British Columbia, but wherever promising prospects are to be exploited its representatives will work.
 There are many undeveloped mines in this province awaiting development.
 The object of the Rossland - Slocan Mines Development Company is to acquire and develop potential mines. Working bonds have been secured on a number of properties and development work will be vigorously prosecuted on such as are favorably reported on by the company's engineer.
 The Company has purchased the **STEAMBOAT GANG GROUP** of silver-lead claims, on Kootenay Lake, and is now developing the property. This is the most promising group in the Kootenay Lake section. Surface assays \$81.50 to \$300. Watch this property.

FOR PARTICULARS AND PROSPECTUS ADDRESS

R. C. MACDONALD, SECRETARY.

P. O. BOX 696.

ROSSLAND, B. C.

REFINING LOW GRADE BULLION.

It is well known to metallurgists that the parting of highly cupriferrous silver bullion—that is, its separation into gold, silver and copper—presents considerable difficulties. Neither the electric nor the sulphuric acid process works satisfactorily on this kind of bullion. It has, therefore, become the general practice of mine owners in the United States to sell such bullion to lead-smelting works where the bars are added to the silver-lead in the cupelling furnaces. The copper is removed by cupellation and the silver dore which remains is parted by one of the usual processes. As far as I know this method is purely American, and is not practised extensively in Europe on account of the loss of silver by cupellation. In this country, however, where the refiner receives his refining charge per gross ounce, that is, for both silver and copper, and pays little or nothing for the copper, there is generally sufficient margin left to compensate for losses. A refining charge of $\frac{3}{4}$ cents per gross ounce on bullion of, say, 500 fineness, is equal to $1\frac{1}{2}$ cents per ounce of silver, or, at the present silver prices, to $2\frac{1}{2}$ per cent of the silver value, not to mention the value of what copper is recovered from the litharge in the ordinary course of the smelting process. Thus, the refiner is justified in his faith that everything will turn out well in the end, as far as his own pocket is concerned. But the miner has to bear still other losses in producing low-grade bullion. The express companies charge for the transportation of such bullion by the pound, and thereby make themselves pleasantly independent on the silver question. A pound of copper traveling as bullion in an express car from, say, Montana to Pittsburg, soon outrides its value. Thus, all the copper in the bullion is spent in railroad fare. This is not all, however. The miner requires bluestone or copper sulphate for his amalgamating pans; that is a compound containing 25 per cent of copper and nearly 40 per cent of water. In fact, a good deal, if not all, of the copper in his bullion comes from this very bluestone. So the whole amount of copper for which the miner has paid $\frac{3}{4}$ cents per gross ounce to the refiner in order to separate and keep it, is reshipped by the latter as bluestone

at an advanced figure to where it came from, the railroad dipping once more into the miner's pocket.

To recapitulate, the miner instead of getting anything for his copper presents it to the refiner and pays its full value three times: 1. To the express company for transportation. 2. To the refiner for separating it from the silver. 3. To the same or some other refiner in purchasing bluestone. For large producers this amounts to quite a large sum. For instance, when a few years ago a certain great mine in Montana produced per year between 3,000,000 and 4,000,000 ounces of silver, all in coppery bullion of about 650 fineness, the game described between miner and refiner cost the company annually about \$50,000. Considering the facility and cheapness with which sulphuric acid is now shipped by railroad in iron drums of thirty or more tons' capacity, mining companies whose reduction works are situated at a railroad station can refine their coppery bullion on the spot at less than they pay the refiner, saving liberally in express charges, and getting their bluestone as a by-product for nothing—provided that the difficulty, mentioned above, of refining low-grade bullion by sulphuric acid is overcome.

B. H. Lee, Notary Public.

A. B. Anderson.

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BOUNDARY CREEK MINES A SPECIALTY.

Agents for

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Rossland, B. C.

MINING OUTLOOK IN COLORADO.

The mines of Colorado are booming according to the Denver Mining Record. Their gold production for the past three months of 1897, as computed by the United States mint in Denver, amounted to \$1,556,294.57, as against \$834,007.86 for the corresponding period in 1896, a gain of eighty-six per cent. This gain is occasioned not only by increased production from new discoveries, but from heavy shipments from old properties, made possible by the steadily decreasing cost of treating low grade ores. It is a well-known fact that as value decreases permanent tonnage increases in a geometric ratio, the speculative in mining is thus steadily becoming eliminated, and a commercial basis is asserting itself. The great Homestake mine at Deadwood, Dakota, is a familiar example, and the rapidly acquiring prominence of the mines of Clear Creek country, Colorado, is a further evidence. Hence it can be safely stated that the outlook for mining was never so good. It is with these conditions in mind and a knowledge of what you are doing that you should make your future investments

Results Talk.

The management of the Canadian Gold Fields Syndicate, Limited, now have over 150 feet of underground development to their credit in the rich Sunset No. 2. From the beginning there has been no "let up" in the exploration and development of this fine property. The work is to be pushed more vigorously, if possible, until the Sunset is a regular producer of pay ore in quantity. With pay ore in quantity comes increased share values and dividends. As an investment, therefore, the fully-paid, absolutely non-assessable shares of The Canadian Gold Fields Syndicate, Limited, at 10 cents per share, appeal most forcibly to every intelligent investor.

Order shares, prospectus and general information from

THE WALTERS COMPANY, Ltd. Ltd., Rossland, B.C.

H. O'HARA & CO., 24 Toronto Street, Toronto, Ontario.

SAWYER, MURPHY & CO., 106 St. Francis Xavier Street, Montreal, Que.

Or through any reliable Bank or Broker.

The Investing Public

Is requested to consider the following facts about the

VICTORY=TRIUMPH Gold Mining Company

The Victory may now rank as a developed mine.

The tunnel is now in 183 feet on *ore all the way*.

The ore is low grade, but when concentrated will yield large profits on treatment.

From a point 90 feet in to the face of the tunnel there is a continuous body of paying ore. A considerable percentage of it will pay to ship as it comes from the mine.

The following statements about the Victory can not be challenged:

1 That the **LARGEST BODY OF ORE** has been opened up at the **LEAST COST** compared with any mine in British Columbia opened during the last two years

2 That every foot of work done is bringing more ore in sight than on any mine in British Columbia at the same stage of development.

3 That as an early dividend payer the Victory compares favorably with any property in process of development.

4 That the **SURFACE CROPPING** ahead of the tunnel gives every reason for supposing that within the next two months a wonderful chute of ore will be opened up at a depth of over **TWO HUNDRED FEET**.

Treasury Stock now 15 Cents.

For full information write to the Secretary of the Company,

ROSSLAND, B. C.

ORDER STOCK FROM YOUR BROKER.