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THE MINING REVIEW.

VOL. I.

ROSSLAND, B. C., APRIL 24, 1897.

No. 32.

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ROSSLAND, B. C.

MINING NOTES.

A. W. Morris of Montreal has bonded the Sovereign on Lookout mountain for \$36,000.

The Reco mine has declared another dividend of \$50,000.

The management of the War Eagle Consolidated is very reticent about the situation at the Crown Point. Whether they are keeping a big thing dark or do not wish the public to boom a strike of small importance, it is impossible to say at present. News of further developments is eagerly looked for.

Silver propositions on Kootenay Lake are being eagerly bought up. The North country is going to have a boom in undeveloped property this year.

Some of the richest grey copper and bromide of silver ore ever seen was brought to Rossland by C. F. Caldwell from the Surprise No. 2 on Duncan river this week. He is one of the men who made the famous mid-winter trip in 1892-93 into that country after the Golden Eagle—a trip which nearly finished both himself and his partner.

S. Wharton, the chief owner of the Cliff mine, has returned from a winter sojourn in the Southern States—a land where they don't shovel snow.

The Monte Cristo has a remarkably encouraging showing in its lower tunnel. For three or four days the drift has been in good ore, and a streak which samples from \$17 to \$48, and is two feet wide, is being followed. This is a big crumb of encouragement for the stockholders, who are largely eastern men.

The Le Roi company has determined to build a smelter and a committee has been appointed to go into the question of a site. It is not improbable that the location chosen will be Barney O'Brien's ranche, which lies on the boundary line at the intersection of the Dewdney trail and the Red Mountain railway.

The gross output of gold from the two main producing mines at Rossland—the War Eagle and Le Roi—is nearly equal to 50 per cent. of the total output of Western Australia. The amount of actual cash originally sunk in the purchase and equipment of these two mines was certainly under \$100,000. Yet a whole nation went crazy over Western Australia and poured millions of treasure into it.

The figures of the South African output for 1896 show a considerable decrease. The Rand shows an increase in the number of crude ounces recovered, but a decrease in the number of refined ounces. This is due to the fact that the cyanide bullion is lower grade than that obtained from the mills. The average yield of gold for every ton of ore crushed in the Rand was .56 ounces, or a minute fraction over \$11 per ton. And a considerable percentage of this was recovered from tailings. If the high-grade producers of the Rand be taken out of account it is clear that a good deal of the gold is actually produced at a loss. And boom conditions in the Rand being now over a further decrease in the number of tons crushed and ounces of gold recovered must be looked for.

The United States still holds the first place as a producer of gold. Australasia comes second, South Africa third and Canada nowhere. But before five years are out Canada's output of gold will be one of the big factors in the world's output.

The danger of an export duty on ore is very slight. The policy of the government seems to be to free mining from restrictions instead of burdening it with more.

Many people seem to think that the market for mining machinery in Kootenay will be smaller this year than it was last. On the contrary, it will be greater.

Rossland is shipping and milling 5,000 tons of ore every month. This output should show a large increase before the end of the summer.

There is a first class showing in the winze on the Gold Bar. An average assay gave values of \$19.

The complete breakdown of communication is having a bad effect on business. It is only temporary, however.

The war in Greece has but very slightly affected adversely the mining interests of British Columbia in London.

Mr. Wedekind's smelter proposition is still in embryo. Nothing of a definite nature has yet transpired.

Work on the Magnet, the new property acquired by the Montezuma Gold Mining Company, will be commenced forthwith. The showing on this claim is extraordinary, the ore on the surface carrying very high val.

The Steamboat Gang group, comprising four claims, situate four miles from Kootenay lake, and about sixteen from the Nelson smelter, has been secured by the Rossland-Slocan Mines Development Company. A ledge 100 feet wide is said to be traceable through the length of the four claims, and assays ranging from \$81.50 to over \$300 have been secured from surface ore. There are several seams of silver-lead ore from three to eight feet wide showing on the surface of the ledge. It should be easy to make a paying property out of this group.

It is reported in yesterday's Miner that a new process for the reduction of Trail Creek ores is under consideration by Matheson of London. If there is anything in it its practical application will follow as a matter of course.

There is a lot of pyrrhotite and arsenopyrite in Rossland which contains little or no copper but fair value in gold, witness the Jumbo, Kootenay and Crown Point mines. Could this ore not be handled by a cheaper process than that of smelting.

The town of Wardner in East Kootenay is being heavily bonded in anticipation of the construction of the Crow's Nest Pass Railway. Statements are being made with regard to it hardly compatible with the fact that the location line of the railway has not yet been finally made through East Kootenay.

The shaft on the Josie is now down 185 feet. The bottom shows 10 feet of vein with two feet of good ore, the rest mixed ore. The Josie has now 25,000 tons of good shipping ore in sight but shipments will not be resumed at present. The management is interested in a smelter scheme and the difference between \$10 and \$20 a ton profit is enough to warrant keeping the ore in the mine until better facilities for treatment present themselves.

Mining machinery, nitro-glycerine and blasting powder have been placed on the free list under the new tariff bill. Laurier seems to have combined relief to Western industry discrimination against the United States and in favor of Great Britain in such a way as to give intense general satisfaction throughout the whole country.

The Kootenay mine is rapidly being placed in a position to become one of our biggest shipper outside the Le Roi this summer.

One of the most remarkable evidences of the progress of actual mining in Kootenay is the importance which water rights in the various districts are acquiring.

The Hon. A. W. Morris is making a thorough tour of the Kootenay mines. He will be able to speak with authority, and not as a scribe, when he returns to Montreal.

The Kansas City Smelting Company is reported to be about to build a smelter at 5-mile point on the outlet to Kootenay Lake above Nelson. Nelson City, commonly called Bogustown, would surely have made a better site.

It is reported that the Pilot Bay smelter has passed into the hands of the Canadian Pacific Railway Company. No mention is made of the Bluebill mine. If they have got the smelter without the mine they may be able to make a success of it.

SELWYN ON THE CROW'S NEST PASS.

Dr. Selwyn has re-emerged with a letter to the Globe on the Crow's Nest Pass Railway. Two paragraphs of it read as follows:

"During the extended official travels of the writer in his position as Director of the Geological and Natural History Survey of Canada for twenty five years, from 1869 to 1895, he has had great and unusual facilities and opportunities for observing and noting the steady and solid progress and development which has been made, notwithstanding the retarding influences of party politics, unhealthy artificial booms and the misrepresentations of the enemies of Canada and of disappointed speculators."

"The Crow's Nest Pass Railway does not differ from any other government-built and operated railway. They never have paid, and never can pay, either the cost of the building or of operating, because they have never been built or operated on business principles. As regards building by the Canadian Pacific Railway, or some other independent company, the only question, so far as the interests of the whole Dominion are concerned, is by whom is the road likely to be built cheapest, and by whom can it be most efficiently and satisfactorily operated. Common sense and past experience answers at once, by the Canadian Pacific Railway Company, whose much-abused monopoly has certainly resulted in placing Canada in her present high and enviable position amongst the dependencies of the empire, and there seems no reason to fear that even a further extension of the monopoly will result otherwise than in further promoting the best interests of the country."

During the last thirty years Canada has made solid progress. The Canadian Pacific Railway has a hide-bound monopoly throughout the districts which have advanced most.

Therefore the monopoly is beneficial.

And such an argument as that is presented by a man supposed to be a man of science?

A BIG VEIN.

A special correspondent of the Globe gives the history of the Sawbill mine as follows:

"In Port Arthur I had a conversation with Mr. Hille, a mining engineer, whose opinions in regard to the region have at times been pretty roughly treated, but who with the lapse of time has come off pretty well against his adversaries. Eight years ago he was sent to Canada to report on some nickel properties for Krupp, the great gunmaker. Arrived here, he found many new or unexpected geological conditions, and spent three months in looking over the field before venturing to make a report. His opinion of the mineral resources of the district caused him to remain at Port Arthur. Then, and for a while since, there was a silver fever about Port Arthur. Nothing else was sought. The areas known to contain silver were carefully prospected, and naturally not a few of the prospectors got into quite different geological areas at times, and brought in rock which showed good gold values on assay. Silver, however, was then the only desirable mineral, and such prospects as showed only gold were left untouched. All along Mr. Hille urged prospectors to look for gold, and in process of time by such prospectors, and by others who went there of their own accord, gold was found, and apparently in abundance.

"One of the lucky ones was Mr. James Hammond, of Port Arthur. His importance in the community began with the discovery of the now famous dyke on the east shore of Sawbill lake. This is not even a quartz, but a quartzite, a rock not so clean-looking as the regular quartz. But the values given by a number of pieces of the rock assayed were very considerable. After making the assays Mr. Hille accompanied Mr. Hammond to the spot, and the engineer tells with a somewhat professional relish of an incident of that visit. Mr. Hammond had found the vein to be from thirty to fifty feet wide, and so extraordinary a body of ore as this would present, where any depth at all could be reached, was at once evident. But the engineer on going along the trend of the vein or dyke found evidences that even this width would be exceeded, so, taking pick and tapeline, they explored at various places, reaching at length a width of 462 feet at one place. There are said to be other very large veins within a mile or two of this one, whose value will be tested this coming summer."

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" 8:26	South Fork.....	" 3:15 "
" 9:39	Sprout's.....	" 2:15 "
" 9:51	Whitewater.....	" 2:00 "
" 10:03	Bear Lake.....	" 1:45 "
" 10:18	McGulgan.....	" 1:33 "
" 10:30	Bailey's.....	" 1:21 "
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Air. 10:50	Sandon.....	Leave 1:00

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9:00 a. m.	NELSON..... 5:20 p. m.
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Time Table in Effect February 4, 1897.

No. 2. PASSENGER, Daily except Sunday—	Leaves Rossland.....	Arrives at Trail.....	7:00 a. m.
No. 4. PASSENGER, Daily, except Sunday—	Leaves Rossland.....	Arrives at Trail.....	4:00 p. m.
No. 3. PASSENGER, Daily except Sunday—	Leaves Trail.....	Arrives at Rossland.....	8:45 a. m.
No. 1. PASSENGER, Daily—	Leaves Trail.....	Arrive at Rossland.....	10:00 a. 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," "Trilliby," and "Escort" mineral claims, all prior locations, with perfect titles, vested in the company. There is a well-defined ledge 10 feet wide, traceable through the claims for a distance of 2,000 feet. Six men are now at work on the Trilliby 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.

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THE LONDON MAIL ON ROSSLAND.

ROSSLAND, B. C.

"Gold or dross—Rossland or dross land?" said a clerical wit to me at Revelstoke, where we changed cars for the Kootenay country.

Even he had been attracted thither; what a crew of souls was there; what unparalleled opportunities for evangelization—and a parish!

The human tide never flags—lay and cleric—rich and poor, worker and idler, Jew and Gentile, European, Asiatic and American—it does not wait for train or boat to carry it, but comes pouring irresistibly into the magic town, which, rumor says, is built on a bed of gold.

Rossland sprang up like a mushroom, in a single night; and its population, now comprising some 8,000 souls (and a number of Chinamen) is larger by several dozens every sunset than at dawn. There may be poverty in Rossland, and that, too, of the grim, ugly, mining-camp sort; there may be more empty stomachs than coined dollars and quarters; there may be shivering forms and much human misery; but—there is gold! The seedy-looking man who comes in with twelve ounces of ore from his new claim on Trail Creek may not have had any breakfast; but it is not improbable that he will have a dinner that would make a Roman glutton ashamed of his slim and slender orgies. Tomorrow that man will have sold his mine for \$5,000 to a speculator, and the next day the speculator will be floating a company with \$100,000 capital! It is stupendous—this recklessness with which big figures are handled.

Millions pass as easily through the lips of these seedy-looking men in Rossland as units. The town is full of sharks and speculators, there is much lying and cozening, and hundreds of thousands of pounds are invested, which may prove to be as good as thrown into the sea. But after all, this fact remains, Rossland is the metropolis of a nearly inexhaustible gold-bearing country, and Rossland today is the greatest gold-copper mining camp on the face of the earth!

The first mines located on Red mountain, the Le Roi, Centre Star and War Eagle, are today worth \$10,000,000. Many other mines are actually shipping ore and bullion. But it was the successful working of the Le Roi that first brought Kootenay into notice and called Rossland into existence. And when this company began paying dividends, a rush of prospectors, miners and speculators set in. Yankee capital was attracted, and money began to be spent in the development of prospects and the creation of a city.

Rossland, when you take everything into consideration, is not a bad sort of place—architecturally speaking—for a town two years old. Its main street, Columbia avenue, has recently been graded up, and is now equal to the heavy traffic it has to support daily. Two and three storied frame-houses are going up on all sides, and the other day the corner-stone of the first brick structure in Rossland was laid with imposing ceremonies by Lieutenant-Governor Dewdney. Rossland boasts of thirty hotels, dozens of stores, two char-

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ROSSLAND, B. C.

tered banks, several churches, electric light, water-works and two daily and three weekly papers.

Mining is no longer the mining of the past. The new scientific methods of extracting gold from low-grade ore are at the bottom of Rossland's success. "It is not a high-grade camp," said an expert to me today. "I doubt if the ore of Rossland district, taking it altogether, will produce more than \$8 or \$10 a ton. But we have more of it than anywhere else; and new machinery enables us to extract it at a profit. Last year the Le Roi mine alone shipped out of Rossland a quarter of a million in bullion. This year it is estimated it will ship three-quarters of a million. What we want is more smelters and machinery, and all ore will be profitable. It would take 50,000 men a complete century to exhaust the gold ore in this province. It is practically inexhaustible; but it is no use trying to mine it in the old way."

Nuggets and "free-gold" will soon be as extinct as the buffalo. Therefore, you can see that it is to the engineers rather than to the gold-hunters that credit should be given for this immense production of the precious metal in new fields.

THE DINGLEY BILL AND ORE.

The Toronto World says:

"Should the government at Ottawa decide to impose an export duty on lead ores the move would be hailed by a great number of British Columbians.

"The tariff bill now being put through by the United States congress makes the duty on lead in ore 1 cent; lead in bullion, etc., 2 cents; in sheets, pipe, etc., 2½ cents. And, as will be readily seen, the purpose of this impost is to encourage the importation of Canadian and other outside lead in the ore, and to discourage the treatment of such ores in Canada. It has been proven beyond any question that these lead ores are necessary to the successful operation of the American smelters, and that fully one-third of their capacity would be closed down if it were not for Canadian and Mexican ores.

"In other words the American smelting men and

legislators wish Canadian ores to be accorded favorable consideration, so that they may not be treated by Canadian plants.

"An eminent United States mining authority says on this point: 'It must be taken as a primary proposition that the lead can not be kept out of the United States. It must come in, and will come in; if not in one way, in another. Therefore, we hold that it should come in in raw material, and form the basis for American smelting and refining, and serve the best purpose to the largest number of American miners of refractory ores.'

"By imposing an export duty on lead in the ore, the government would discourage its shipment to the United States and help to establish smelters on this side of the line."

An export duty on lead ore would be simple insanity. Granted that protection is a justifiable tax in order to stimulate an infant industry, the infant industry of mining cannot afford to pay taxes to encourage smelting. An export duty on ore would stimulate smelting on this side. But where ore can be smelted as economically on this side as on the other the difference in transportation charges forms a sufficient premium. Where ore can be smelted more cheaply on this side it will be smelted. Consequently, it is only where the mine-owner would lose that an export duty would in any way benefit smelting. If it were only a question of losing so much per ton on the ore mined, it might be said that the Canadian mine-owner could stand it to encourage Canadian smelting. But freight and treatment are ominous words to the mine-owner. A very small difference in the cost of treatment per ton may mean, and does mean, an enormous difference in the number of tons reduced below the profit minimum of value. In this way mining differs from ordinary manufacturing.

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

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VOL. I.

APRIL 24, 1897.

NO. 32

EDITORIAL NOTES.

THE MINING REVIEW is in receipt of a communication, signed by Messrs. Sword and Semlin, with a request from Mr. Semlin to publish the same. The purport of it is that the Hon. G. B. Martin promised his constituents to oppose government aid to the British Pacific railway, and, if necessary, resign, and that he has not kept his promise. All this is very true, but it is hardly necessary to remind Messrs. Sword and Semlin that what the province expects of them is not so much to drive home the fact that a cabinet minister has broken a pledge, but to provide the scattered opposition to the Turner government with a spirited program which will unite their efforts and render the defeat of the government certain at the next election, thus placing the present cabinet ministers in a position where their pledges will have little or no bearing on matters of public importance. We have had enough of peanut politics, gentlemen of Her Majesty's opposition. We want a comprehensive declaration of policy and an organization of sufficient strength and dignity to run this province. If the government is to be defeated, and that monstrous growth of incompetence and corruption must and shall be destroyed, it must be on its land and railway policy. We want from the leaders of the opposition a declaration on land and railway questions, not couched in vague generalities and everlasting platitudes, but trenchant, incisive and particular, rousing enthusiasm and stimulating endeavor.

ON two separate occasions this season the forms of representative government have been neglected by the ministers at Victoria. The former of these was in connection with the incorporation bill, the latter in connection with the election writ for the late Mr. Kitchen's constituency. The government has given the editor of THE MINING REVIEW credit for a certain amount of honesty in the expression of his opinions, the editor of THE MINING REVIEW gives the government credit for a certain amount of freedom from cant and hembing in the execution of its functions. It has long since done away with the reality of representative government, and now occasionally overlooks some of its empty forms.

IN the lucky bag of circumstance three things have been found coming up in connection with one another during the last week, of which the connection is more fortuitous than appears at first sight. The first is the agitation against the land policy of the government, the second, the Nelson & Fort Sheppard Railway Company's land grant, and the third, the private business interests of Messrs. Blake, Powell and Parker.

THE agitation against the government's land and railway policy will be the salvation of this province if it is successful in defeating the government before the country. The sins of the government in this respect have been so glaring that a half-hearted apology is all that can be advanced by its most reliable supporters. In fact, to every one except the members of the government themselves the handwriting on the wall is so plain that he who runs may read it.

ON the land grant to the Nelson & Fort Sheppard Railway company THE REVIEW is able to speak its mind because no one is likely to accuse THE REVIEW of either sympathizing with or being influenced by a corporation, which has acquired so much land which rightfully should belong to the people. In fact, the personal relations of the editor of THE REVIEW with the Nelson & Fort Sheppard Railway Company have been restricted to one short, sharp and exceedingly unpleasant interview with Mr. O. D. Mott, an individual of offensive characteristics when he mistakes his man as he did in that instance. The land grant in question was made under peculiar conditions. West Kootenay was starving for a railroad and every inhabitant in South West Kootenay petitioned in favor of this land grant, which was given in opposition to C. P. R. influence and the city of Vancouver by the legislature, representing in this instance a Victoria-Kootenay combination. The grant was necessary to the building of the road at that time, witness the fact that the land was mortgaged to build the road. And the conditions under which it was given have been fulfilled in the main. Now granted that it was a big mistake to give this land granted, that the dispute as to title has given the company a huge unearned increment, granted that the consequences will be injurious to the best interests of the people of the province, THE REVIEW still believes in justice to prostitutes, railway monopolists, chinamen and other anti-social elements, which society tolerates if it does not admire, and justice demands that the railway company shall receive fair treatment. If ultimate justice ever demands that society rid itself of railway kings and such like by summary measures, it will doubtless be accomplished. They have laths in their necks like other folk, as the laird of Auchinleck said of Charles I. But until the revolution point has been reached they should be treated with the same justice as other people.

NOW the contention of Messrs. Blake and Powell that the railway company has not fulfilled its right to the land on which the town of Salmo now stands is a purely legal contention. The law stands on one side, or the law stands on the other. It is the private interests of Messrs. Blake and Powell againsts the private interests of the railway company. It is probable that the interests of the community lie rather with the success of Messrs. Blake and Powell's contention than with the success of the railway company. And the duel between them will be watched with interest. But if it is criminal and wrong to debase legislators to secure legislation in favor of private interests it is equally criminal and wrong to debase public opinion to extort legislation in favor of private interests. Consequently if Messrs. Blake and Powell fight the company for Salmo in the courts of law, and are successful their acquisition of a half million dollar townsite will be viewed with complacency and the inhabitants will doubtless reap huge benefits from their well known philanthropy and public spirit. But on the other hand if they make use of the state of public feeling to obtain the townsite by legislative interference they place themselves in exactly the same position as Corbin may have placed or may place himself, using the peculiar influences to which legislators are amenable to influence their action in his favor. The fact that the public might benefit by their success in such questionable tactics has nothing to do with the merits of the case.

The Yale-Lilloet and Fraser River company is likely to abandon its interests in the Waterloo camp.

D. W. Semple, representing the Portland Telegram, is in Rossland with the object of arousing in Oregonians a sense of the importance of this camp.

Henry Rose, one of the best known prospectors in British Columbia is in from the St. Mary's district, with Jackson, his partner, and tells marvelous stories of the showings in that section.

MARKET REPORT.

The difficulty of obtaining the great amount of information required for THE REVIEW'S new stock table has delayed its appearance. Next week, however the quotations will appear in full detail. During

the week there has been a noticeable improvement in prices, though transactions have not been large.

COMPANIES.	CAPITALIZATION.	PAR VALUE	MARKET PRICE.
Alberta.....	\$1,000,000	\$ 1.00	13 1/4
Alamo.....	500,000	\$ 1.00	* 10
Butte Gold Copper.....	1,000,000	\$ 1.00	2 1/2
Beaver.....	750,000	\$ 1.00	10
Big Chief.....	1,000,000	\$ 1.00	40
Brit.-Canadian Goldfields.....	2,500,000	\$ 1.00	40
B. C. Gold King.....	1,000,000	\$ 1.00	10
Bluebird.....	600,000	\$ 1.00	7 1/2
Bruce.....	1,000,000	\$ 1.00	10
Big Three.....	3,500,000	\$ 1.00	10
Caledonia Con.....	500,000	\$ 1.00	8
California.....	2,500,000	\$ 1.00	7
Cambridge.....	1,000,000	\$ 1.00	10
C & C.....	500,000	\$ 1.00	*
Centre Star.....	600,000	\$ 1.00	*
Celtic Queen.....	750,000	\$ 1.00	04 1/2
Commander.....	500,000	\$ 1.00	22
Crown Point.....	1,000,000	\$ 1.00	47
Colonna.....	1,000,000	\$ 1.00	25 1/2
Cariboo.....	800,000	\$ 1.00	49
Cumberland.....	500,000	\$ 1.00	*
Deer Park.....	1,000,000	\$ 1.00	18
Delacola.....	1,000,000	\$ 1.00	3
Eastern Star.....	500,000	\$ 1.00	20
Eric.....	1,000,000	\$ 1.00	5
Elise.....	1,000,000	\$ 1.00	5 1/2
Enterprise.....	1,000,000	\$ 1.00	20
Eureka.....	500,000	\$ 1.00	6
Evening Star.....	1,000,000	\$ 1.00	11
Georgia.....	1,000,000	\$ 1.00	16
Gertrude.....	500,000	\$ 1.00	8 1/4
Giant.....	500,000	\$ 1.00	15
Good Hope.....	500,000	\$ 1.00	4
Golden Drip.....	500,000	\$ 1.00	11 1/2
Golden Queen.....	1,000,000	\$ 1.00	
Great Western.....	1,000,000	\$ 1.00	13
Grey Eagle.....	750,000	\$ 1.00	8
High Ore.....	500,000	\$ 1.00	4 1/2
Homestake.....	1,000,000	\$ 1.00	7 1/2
Hall Mines.....	£300,000	£ 7.00	
Hilltop.....	1,000,000	\$ 1.00	t 10
Hattie Brown.....	1,000,000	\$ 1.00	10
Helen.....	600,000	\$ 1.00	3
Imperial.....	1,000,000	\$ 1.00	5
I X L.....	1,000,000	\$ 1.00	
Idaho.....	500,000	\$ 1.00	*
Iron Colt.....	1,000,000	\$ 1.00	t 20
Iron Horse.....	1,000,000	\$ 1.00	20
Iron Mask.....	500,000	\$ 1.00	46
Ivanhoe.....	1,000,000	\$ 1.00	t 10
Josie.....	700,000	\$ 1.00	48
Jumbo.....	500,000	\$ 1.00	59
Juliet.....	1,000,000	\$ 1.00	t 15
Kohinoor.....	1,000,000	\$ 1.00	t 10
Kootenay-Columbia.....	250,000	100.00	*
Kootenay London.....	1,000,000	\$ 1.00	12 1/2
Le Roi.....	2,500,000	50.00	750*
Lily May.....	1,000,000	\$ 1.00	20
Mayflower.....	1,000,000	\$ 1.00	12
Monte Cristo.....	1,000,000	\$ 1.00	13
Montezuma.....	1,000,000	\$ 1.00	t 4 1/2
Mugwump.....	1,000,000	\$ 1.00	
Monita.....	750,000	\$ 1.00	18
Minnesota.....	1,000,000	\$ 1.00	12 1/2
Morning Star.....	1,000,000	\$ 1.00	8
Northern Belle.....	1,000,000	\$ 1.00	10
Noble Five Con.....	1,200,000	\$ 1.00	58 1/2
Nest Egg Firefly.....	1,000,000	\$ 1.00	
Novelty.....	1,000,000	\$ 1.00	6
Old Ironsides.....	1,000,000	\$ 1.00	06 1/2
O. K.	1,000,000	\$ 1.00	26
Palo Alto.....	1,000,000	\$ 1.00	5
Pure Gold.....	1,000,000	\$ 1.00	5
Phoenix.....	500,000	\$ 1.00	10
Poorman.....	500,000	\$ 1.00	7
Red Mountain View.....	1,000,000	\$ 1.00	8
Rossland, Red Mt.....	1,000,000	\$ 1.00	26
Rambler Con.....	1,000,000	\$ 1.00	52
R. E. Lee.....	2,000,000	\$ 1.00	15
Rochester.....	500,000	\$ 1.00	
Rossland Star.....	1,000,000	\$ 1.00	15
St. Elmo.....	1,000,000	\$ 1.00	07 1/2
Silver Bell.....	1,000,000	\$ 1.00	5 1/2
Silverine.....	500,000	\$ 1.00	8
Southern Cross & W Con.....	500,000	\$ 1.00	20
St. Paul.....	1,000,000	\$ 1.00	10
Slocan Star.....	500,000	\$ 1.00	50 2/5
Sunshine.....	500,000	\$ 1.00	*
Trail Mining Co.....	250,000	100.00	*
Union.....	600,000	\$ 1.00	4
Victory-Triumph.....	1,000,000	\$ 1.00	t 15
Virginia.....	500,000	\$ 1.00	10
War Eagle Con.....	500,000	\$ 1.00	
West Le Roi.....	500,000	\$ 1.00	25 1/2
Waneta and Trail Creek.....	1,000,000	\$ 1.00	10
White Bear.....	500,000	\$ 1.00	18
Young British America.....	1,000,000	\$ 1.00	7
Wonderful.....	1,000,000	\$ 1.00	09 1/2
Zilor.....	1,000,000	\$ 1.00	15

Dividend paying properties appear in italics.
An asterisk denotes that there is no stock on the market. t denotes treasury stock.

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 or 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. Lty., 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.

HON. MR. MARTIN'S PLEDGE.

To THE EDITOR—At the meeting at Kamloops to which reference was made yesterday in the house by Mr. Semlin, Mr. Martin pledged himself to resign his portfolio should any measure for a money bonus or guarantee in aid of the British Pacific scheme be brought down by the government, reserving to himself the right to acquiesce in any further land grant. We made a memorandum in writing of the terms of Mr. Martin's pledge on the same day. Mr. Martin had evidently no written memorandum to refresh his memory, and his statement last night that he was only pledged against supporting a grant of annual interest to the amount of \$240,000 is not correct. There were other gentlemen present, personal friends of Mr. Martin, and politically opposed to ourselves, whose recollection of what Mr. Martin did pledge himself to is likely to be less biased than his.

C. A. SEMLIN,
C. B. SWORD.

Victoria, April 15.

TREATING SLIMES ON THE WITWATERSRAND.

Several of the Witwatersrand companies are making arrangements to treat the slimes which have heretofore been rejected, as well as the tailings. At the Crown Reef mine, says the Johannesburg Star in a recently received issue, the additional iron tanks at slime works are complete. These tanks have concrete bottoms with a fall toward the center, and as the concrete work is just finished, it wants a few days to dry and harden thoroughly. The two additions bring the number of treatment tanks up to eight, each 31 x 10 feet, and this plant will allow of sufficient time being given to each charge to obtain thorough dissolving of the gold contents.

At the present time a profit of \$3,840 monthly is being made from slime on a 64 per cent extraction, and the extraction is expected to be brought up to 75 per cent with the additional time which can now be given to each charge. A higher extraction means of course, increased profit. For November and December the assay value of the slimes filled into the tanks was 0'24 ozs., and the cost of the treatment was 97c. per ton, and the royalty 7'5c., bringing the total cost

to \$1.04 $\frac{1}{2}$. This cost, worked out on the tonnage milled, is equal to 18c. per ton, while the gold recovered on the same basis is equal to 44c., so that the larger proportion recovered was profit. Arrangements have been in hand for some time at this mine for the addition of a sorting table at the head gear. It is expected that about 15 per cent of waste will be rejected with a substantial increase in grade and recovery.

Telluride of Bismuth in New South Wales.

The Geological Survey of New South Wales says that at Tarana this mineral was first noticed by Mr. E. C. Whittel, field assistant, at Mitchell & Party's claim, near Slippery creek. It occurs along with free gold in small grains and flakes in the quartz, and is associated with greenish and yellow alteration products. The telluride is most probably auriferous. A similar mineral has recently been found, also associated with free gold, in a white quartz from Kentucky Run, near Uralla. Telluride of bismuth has been previously recorded from Captain's Flat, Molonglo, and from Moor creek, Tamworth.

B. H. Lee, Notary Public.

A. B. Anderson.

LEE & ANDERSON,

Mining Brokers and Real Estate Agents.

BOUNDARY CREEK MINES A SPECIALTY.

Agents for
GREENWOOD CITY LOTS.

S.E. Cor. Lincoln and
Columbia Ave.

Rossland, B. C.

TELLURIDE GOLD ORES.

A correspondent in the Engineering and Mining Journal gives the following test for tellurides:

"In case tellurium is suspected in an unoxidized form as a telluride, a very simple test, and one which has been known for many years, is to place a minute fragment of the mineral in a white porcelain dish and add a drop of concentrated sulphuric acid; heat the acid gently over the flame of a spirit lamp, and if tellurium be associated with other minerals commonly found with gold-bearing ores, this test is of little or no value, as these minerals interfere with or conceal the reaction."

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 '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, point of commencement.

Said land is situated in the Osoyoos District of British Columbia.
Dated this 10th day of April, A.D. 1897.
A. B. ANDERSON.

THE CORRECT PRINCIPLE IN MINING....

IS EMBODIED IN THE ...

....Montezuma Gold Mining Co., Ltd.

RESPONSIBLE DIRECTORATE

NOT OVER-CAPITALIZED

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.

WATER SUPPLY AND THE DEATH RATE.

There is food for reflection for officials in towns where a high death-rate from typhoid fever has led to a demand for a purer water supply in some figures which the Jersey City, N. J., Evening Journal has obtained, showing the reduction in the death-rate from typhoid fever that has accompanied the substitution, as the city supply of pure water from the highlands of New Jersey for the polluted water of the Passaic river. In January, 1896, the city's water supply was a mixture composed of 28 per cent. pure water and 72 per cent. Passaic river water, and the deaths from typhoid fever numbered 28. In February the percentage of pure water was 40 per cent. and the number of deaths 30, showing that the percentage of pure water in January had been too small to have any effect. In March, April and May the percentage of pure water was increased respectively to 43, 58 and 50 per cent., and the number of deaths fell to 16, 9 and 6. In the five months from June to October, inclusive, the percentage of pure water averaged about 80 per cent. and the number of deaths 4 per month. It is estimated on the basis of these figures that the introduction of a pure water supply has saved 75 deaths from typhoid fever in Jersey City in the last eight months, and, in considering this statement, it is to be remembered that similar experiences have followed the substitution of highland or filtered water supplies for polluted ones in at least a dozen or more cities in Europe and the United States.

WANTED.

THE MINING REVIEW would like to get the song complete from which the following is a stanza:

I started in my mining life.
By chopping bo-and wood,
But I was born with axe in hand,
So I could use it good.
My chum was from the State of Maine,
Somewhere near Tennessee;
But, ah, I was from Canada,
And he could not chop with me.

Chorus.
But, ah, I was from Canada, etc.

E. S. COX,

MINES AND STOCKS.

7 TORONTO STREET - - - TORONTO.

Buying and selling orders on all British Columbia Mining Stocks.

Write for close quotations on War Eagle Consolidated, Two Friends, Orphan Boy and Victory-Triumph.

J. B. CAMPBELL.

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INVESTMENT BROKER.

505 BOARD OF TRADE BUILDING.

MONTREAL.

Latest information from the mines. Write for quotations on mining stocks.

BUCK & BOUILLON'S

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 Slocan 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.

BUCK & BOUILLON

Mining Engineers, Draughtsmen and Map Publishers
Stussi Block. ROSSLAND, B. C.

REDDY & REINER.

Unlimited and Unincorporated.

MINING BROKERS AND
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Agents for Deer Park Treasury Stock.

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MINES EXAMINED AND REPORTED ON.

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ASSAYER.

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Agents for Giant Powder Co., Goodwin Mining Candles, Jessopaud Canton Steel, Pipe and Fittings, Verona Tools. Tin shop in connection.
ROSSLAND, B. C.

MINING PRINTING.

We are prepared to print STOCK CERTIFICATES, PROSPECTUSES, PAY ROLLS, VOUCHERS, ORDER BLANKS, and other Mining forms.
Our work speaks for itself.

REVIEW PRINTING HOUSE:
Miner Block, East of Post office.

AN INVESTMENT ...**... IN THE STOCK OF THE ..****ROSSLAND - SLOCAN MINES****DEVELOPMENT COMPANY, LTD. LY.****WILL BRING****PROFITS...**

President—Hon. T. Mayne Daly
Ex-Minister of the Interior
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.

FOR PARTICULARS AND PROSPECTUS ADDRESS

R. C. MACDONALD, SECRETARY.

P. O. BOX 696.

ROSSLAND, B. C.

A NEW CANADIAN PRODUCER.

A correspondent of the Toronto World from Marmora writes as follows:

"There seems now to be no doubt that mispickel ores of Hastings county readily yield to treatment by the Sulman bromo-cyanogen process. This at least is the conclusion I have come to after inquiring into the operations going on at the Deloro gold mines. Six months ago, when I visited this property, the Canadian Gold Fields Company, Limited, of London, England, the owners, were engaged in erecting their mills, installing their plant and otherwise, at a total expenditure of some half million dollars, preparing for active development work. But now—mark the difference—they are regularly turning out gold bricks. But what appears to place the question of the success of the Deloro enterprise beyond peradventure is the fact that the syndicate are just now adding big blocks of mineralized land to their already extensive holdings of property. Were they not absolutely assured of the success of their project they would not be taking such steps. Only the other day they paid \$1,500 for a mispickel proposition held by Tom Farrell, and it is believed that they will, before the week is out, take up options they hold on a number of other properties in the neighborhood.

"It is exceedingly difficult to obtain official information concerning the doings at the Deloro mines and mills. Messrs. A. J. G. Swinney and Pickard, the manager and chemical expert respectively of the syndicate, maintain the proverbial English mining man's reticence regarding their company's affairs, and refuse to admit outsiders to their shafts and mills, but it is learned that three mill runs have been made, which have saved on an average 89 per cent. of the gold in the ore, which varies in value from \$16 to \$60 a ton."

BRITISH COLUMBIA MINES IN ENGLAND.

Apropos of his trip to London Mr. T. G. Blackstock is reported as saying:

"The British Columbia mining boom has done much to advertise Canada in Europe. English members of Parliament, leading financiers and business people of the highest standing are already much in-

terested. A large number of prominent English mining men came to see us and the feeling is strong that British Columbia is the next mining district to which the attention of British investors will be directed, but at the present time people are very careful after the big losses sustained by many in the gold fields of South Africa and West Australia. Then the danger of war, either in the Transvaal or in the East, although not imminent, is still sufficient to affect all kinds of speculation.

"New companies for the development of British Columbia mines are being started in London nearly every week, but it seems that the public are not subscribing largely to the stock, and the underwriters have to carry most of it. Of course there are some exceptions, in which it is surprising that the public have come in so far as they have.

"There is no doubt that a great amount of capital has been supplied by the old country for the development of British Columbia mines and this summer will see a great deal more money come out here for that purpose. So far, British Columbia mines are hardly sufficiently developed to attract capital."

Speaking in regard to the rumors of the sale of the Le Roi mine, Mr. Blackstock said that an Englishman does not carry a million pounds around in his pocket to buy a gold mine with. The only way the mine could be sold was to form it into an English joint stock company and sell the shares.

People will buy a large well-developed mine and pay the value of the ore in sight sooner than go into a less sure speculation.

HISTORY REPEATS ITSELF.

"The real onward march of the nation began in the fifties. The cause was the infusion of California gold into the arteries of the country's business. Three hundred thousand men were suddenly transferred to the western coast of the republic. Then from the east and west the wilderness was encroached upon, with every year the space between the two civilizations grew less and less, with constantly accelerated speed the conquest of the wilderness went on; the stream of treasure from the west gained annually in volume; this made possible the full employment of

the great forces called into service by invention; the clamors of the progress drew thousands and tens of thousands of immigrants from the old world; even the great war could not restrain the onward sweep, until finally these two civilizations met in mid-continent; the land was linked with steel from sea to sea, and the roar of the joyous toiling millions rose like a mighty diapason on the ears of the world."

British Columbia will do the same for Canada, and the Canadian Pacific Railway will do for British Columbia what the Southern Pacific has done for California—if it is allowed.

Cut this Out.

There are 12 ounces troy in a pound troy, and 16 ounces avoirdupois in a pound avoirdupois. But in a pound (avoirdupois) by which the mining world is ruled, and on which the smelter makes its settlements and the assayer arrives at his conclusions, there are 14,583 ounces troy, which allows 29,166 ounces to the ton.

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 Barnev, 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

THE ANGLO-CANADIAN MINING EXCHANGE, LTD.

(Incorporated by Dominion Charter.)

Head Office: McKinnon building, Toronto, Canada.
Rossland Office: Columbia avenue, near Grand Union Hotel.

Represented by GEO. GURD, Secretary.

**ROBBINS & LONG, Chas. P. Robbins
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	00	Aluminum	3 00		

Ten or more samples from same party in any one month, 30 per cent off list prices. Five or more brought in at one time same discount. Special attention given to samples by mail.

OFFICE WITH REDDIN & JACKSON. ROSSLAND, B. C.

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.