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THE MINING REVIEW.

VOL. I.

ROSSLAND, B. C., DECEMBER 16, 1896.

No. 14.

Cable address, "Atugump," Rossland. Use "Lieber's," "Moreing and Neal's," and Bedford-McNeil's Codes.

MINING NOTES.

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WILL EXAMINE AND REPORT ON MINES

Though work on the Hall Mines smelter is being pushed as rapidly as possible it will be some weeks before it will be complete. When the new furnace is ready it will raise the capacity of the smelter to 330 tons a day. The extension of the main tunnel of the mine is proceeding rapidly, and when the smelter is ready the output of the mines will be about 200 tons daily.

It is expected that the Payne group in Slocan will ship 3,000 tons of ore before spring.

Although no ore is being taken out of the White-water, it is said that there are 1,200 tons in sight.

Now it is stated that the site of the War Eagle smelter will be at Northport.

D. M. Linnard's syndicate has secured the Gopher, one of the old locations in the south belt, lying between the Homestake and the Maid of Erin. Judging from the many unsuccessful efforts to purchase the Gopher, made by various individuals and syndicates, Mr. Linnard must have exercised the patience of a Job and the wisdom of a Solomon before the deal was completed.

The mining boom in the east has brought with it a revival of interest in the mica mine near Gananoque, Ont., and we learn that the mine is to be worked.

It is understood that Mr. Corbin intends building a railroad from Marcus into Boundary next spring, should the application for a charter be granted by the Provincial government.

At a depth of eight feet in the Triumph shaft solid copper pyrites was found, and an assay returned 30.4 per cent. copper and \$3 in gold. The Victory tunnel is being driven in on the big vein, which is the pride of Sophie mountain prospectors.

Work on the Red Eagle is proceeding and a good showing is the result of the first few days' drilling and blasting. There is now a four foot vein of fine ore in the cut on the Mayflower ledge.

There is a good showing of gold-copper ore on the Velvet on Sophie mountain. The latest assay was 5.5 per cent. copper and \$27 gold.

It is stated in Toronto papers that an offer of \$1,000,000 has just been refused for the well-known Sultana mine, which is located on an island in the Lake of the Woods, Ont. The owners, it is said, want a million and a half. A few years ago the claim was sold for \$100.

The report is current in Spokane that the Great Northern intends to enter the Trail Creek district, and will reach Rossland by means of a branch line sixty miles in length up Priest river.

After a long search, a certificate for 500 shares of Le Roi stock, which had been missing for years, was found in a bank in Chambersburg, Pennsylvania, where it had been deposited as collateral. It belongs to the estate of the late V. M. Massey, of Spokane.

E. J. Kelly, manager of the Deer Park, has returned from Spokane.

Mr. John A. Ewan, who has been in the camp for several weeks preparing copy for the Globe's special Rossland edition, left for Toronto yesterday.

The Walters company is to be incorporated, with a capital stock of \$100,000. The officers are: Howard C. Walters, general manager; J. C. Drewry, secretary and treasurer; H. C. Walters, J. C. Drewry, Duncan McMillan and Alfred J. Walters, directors.

The second payment of \$3,500 on the Hattie has been made by the bonding syndicate.

A contract has been let for an upraise in the Cliff mine. The ore chute in the No. 2 tunnel of the Cliff is narrow, but assays as high as \$36.

The War Eagle's No. 2 tunnel has reached another chute of high-grade ore 100 feet from the west end line. The ore body is eight feet wide.

Work has been begun on the Golden Drip.

Considerable progress has been made on the Snow-drop, operated by the International company. Seven men are at work and improved assays are being obtained.

The Butte shaft is now down eighty feet, and assays of \$20 in gold and copper have been obtained.

Yesterday the force of men employed on the Sunset No. 2 was increased to fifteen. This property has a magnificent showing of high-grade ore, that in the bottom of the forty-two foot shaft being four feet wide and assaying as high as \$40 and \$50.

Field, Hobbs & Co. have opened offices in the Grand Union Hotel and will operate as mining brokers.

An offer of 60 cents a share for the controlling interest in the Deer Park has just been refused. Mr. Mulholland, the largest stockholder, declined to consider any offer under \$1 a share. The west crosscut in the mine has been driven twenty feet across the vein, all in high-grade ore. The face is still in solid ore. The crosscut will be continued until the foot wall is reached and then a crosscut will be driven from the shaft east to the hanging wall. The showing of ore in the crosscut is said to be remarkable. Preparations for the shipment of ore are being made, and a steam hoist will be in operation within two weeks.

The people of Sudbury refuse to accept the "an-ite" theory of Prof. Coleman, and continue to substance so-called for fuel.

Reports from the Orphan Boy are most encouraging. Progress of work has been rapid. There is fine ore in sight and the directors expect to have a shipping mine very soon.

The crosscut tunnel on the Waneta and Trail Creek property has been driven through the ledge, which is fifteen feet wide, the filling being composed of carbonates and decomposed iron, heavily stained with copper pyrites. This is proving a first-class property.

The temporary terminus of the Red Mountain Railroad is being constructed at Nickle Plate Flat. There is a freight blockade at Northport, and until that is relieved no passenger trains will be run.

Col. S. W. Ray has purchased the Dardanelles group in Slocan. A company has been formed to operate the mine, which has, so far, shipped 72,000 ounces of silver.

The Ibez, adjoining the Silver Bell, in the south belt, is being developed. It has good surface indications and should make a good mine.

Nearly all the pack trails are still open, and pack trains laden with supplies leave almost hourly for various outside properties under development.

A dividend on the preferred stock of the Hall Mines has been declared.

Hon. Mr. Blair is opposed to the idea of a law taking from aliens the rights of free miners.

Admiral Selwyn, the inventor of the Zymean process of extracting gold, silver and copper, has written to the Boundary Creek Times to say that he is confident that by this process Trail Creek ores can be treated at the small cost of \$1.25 per ton.

THE ST. KEVERNE GROUP.

A strong company has been formed in Spokane to operate the St. Keverne group, adjoining the Payne group on Payne mountain, in the Slocan district. There are six claims in the group—the St. Keverne, Dominion, O. B. H., Exeter, Keystone and Felix. J. D. Farrell is president; Chas. D. Reeder, vice-president; Sidney Norman, secretary and treasurer. These names are sufficiently well known to assure the public that the affairs of the company will be conducted in a business-like manner, and the locality of the claims, taken with the surface indications, make it certain that the property will prove a most valuable one.

THE FEELING IN LONDON.

The way for a successful introduction of our mining properties to the great London market is being surely paved. Under the caption "Mining Prospects in British Columbia," the Financial Times, in the last number received, prints a leading article which we reproduce in condensed form:

"The other day we had to record the appearance of a Canadian gold mining company on the London market. We believe that this was the first time public subscriptions have been asked for here on behalf of a Canadian gold mine, and we are much mistaken if it does not prove to be the forerunner of many others. It is ascertained beyond doubt that British Columbia contains a vast quantity of the precious metal, and a couple of months ago we gave a sketch of the history of mining in this field since 1851, and pointed out the extraordinary development of the industry which took place last year. Public interest in the prospects of British Columbia, particularly as a gold field, is increasing here, and the report of the Columbia Board of Trade, covering the year ended July last, which deals chiefly with mining, will, therefore, be read with close attention. Very encouraging are the facts and figures therein set forth. So much so, indeed, that there appears small room for doubt that plenty of scope will be found in the district ere long for the profitable employment of British capital, though, as elsewhere, great care must be used in selection. The mining laws of the country are very favorable to prospectors, and a hardy young fellow who could command a little capital and possessed some knowledge of mining might do worse than take his chance in that magnificent region.

"The mining laws have been framed, to quote the report, 'so as to facilitate as far as possible development in every stage, and experienced mining men from the United States speak in terms of highest commendation of their liberal scope and justice.'

"The report now before us enables us to supplement the information we gave in our previous article. In the Kootenay district the output has continued to increase during the first six months of the year, 'especially in the Trail division, where many claims are already giving results which promise to make that sub-section one of the important gold producers of the world.' This may be a trifle optimistic, but there is some excuse for optimism on this subject. The average value of the ore is stated at \$40 a ton, chiefly gold, with a percentage of silver and copper, but it is a fact of great significance that the veins seem to grow richer in depth. Thus at the Le Roi mine some of the richest ore yet taken out was found 500 feet below the surface. This mine and the War Eagle have already made very good records for themselves as dividend-payers. The Le Roi practically commenced shipping ore in January, 1894, but the company has within the short period since elapsed distributed \$175,000 in dividends. A still better showing is that of the War Eagle, which only commenced shipping in January, 1895, and has paid since then dividends amounting to \$157,000. It is to the richness of the ore in these two mines that the boom in the Trail district is mainly due. The Kootenay, though so far it has turned out to be the richest—possibly because it is the most developed—is by no means the only district in the province abounding in gold. The Cariboo district is believed by many well-informed miners to be equally rich, if not richer, while the Cassiar, Alberni and Barclay districts are also favorably reported on, and some of the islands, such as Vancouver and Texada, are known to be highly mineralised. There is plenty of room, consequently, for further prospecting, especially as the population of British Columbia averages at present only one white to about six square miles of land. What the country wants most, both for the exploitation of its mineral wealth and its other rich resources, is more railroad facilities. In the Trail district there is a narrow-gauge line, connecting the principal mines with the town of that name, and the Canadian Pacific proposes to extend its line in this direction. But at present there are only 800 miles of railway in British Columbia—or, roughly speaking, one mile for every 478 square miles of territory. A company has been already formed to build a line, called the British Pacific Railway, which would start from Nanaimo, a town on Vancouver island, and connected by rail with Victoria, be connected with the mainland at Bute

The R. J. BEALEY CO.,
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...THE...

Silver Bell Mining Company

Assays from surface ore: \$24.35.
\$42.90, \$53.00, \$52.30, \$51.90, \$85.26.Ore taken from the bottom of the shaft on Oct.
26th, assayed \$103.14.

Situating two miles from Rossland, B.C., has good shipping facilities and all other conditions favorable for a paying mine.

Price on first block of Treasury Stock now SEVEN (7) cents per share, after December 1st the price will be ten (10) cents per share. The remarkably fine showing from development work warrants even a higher figure.

(NOTE.—Before purchasing, Rossland residents and visitors are invited to call at the company's office and a representative will gladly show them the property.)

The Silver Bell Mining Company,

ROSSLAND, B. C.

G. A. POUNDER, Pres. W. J. GREEN, Vice-Pres.
J. A. SCAMAN, Secretary.THE IBEX MINING
COMPANY.

Limited Liability.

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.

First block of Stock on the Market at 3½ cents.

THE IBEX MINING COMPANY, LIMITED.

Shaw Block - - - ROSSLAND, B. C.

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
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Gold and Silver, 2 00	Sulphur 3 00	Coal Analysis 10 00
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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.
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Our work speaks for itself.

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RAILWAY.

Nelson & Fort Sheppard Railway.

The Only Route to Trail Creek and the Mineral District of the Colville reservation, Nelson, Kaslo, Kootenay Lake and Slocan Points.

DAILY EXCEPT SUNDAY BETWEEN SPOKANE AND NELSON.

Leave Going North, 1:27 p.m. NORTHPORT. Arrive Going South, 1:27 p.m.

Passengers for Trail creek mines connect at Northport with stages and steamer daily.

Close connection at Nelson with steamers for Kaslo and all Kootenay lake points.

Passengers for Kettle river and Boundary creek connect at Marcus with stage daily.

COLUMBIA & WESTERN RAILWAY

Time Table in Effect July 1, 1896.

No. 2, PASSENGER, Daily except Sunday—
Leaves Rossland 7:00 a. m.
Arrives at Trail 7:45 a. m.No. 6, PASSENGER, Sunday only—
Leaves Rossland 8:30 a. m.
Arrives at Trail 9:15 a. m.No. 4, PASSENGER, Daily—
Leaves Rossland 3:00 p. m.
Arrives at Trail 4:00 p. m.No. 3, PASSENGER, Daily, except Sunday—
Leaves Trail 10:30 a. m.
Arrives at Rossland 11:30 a. m.No. 1, PASSENGER, Daily—
Leaves Trail 5:00 p. m.
Arrives at Rossland 5:45 p. m.No. 5, PASSENGER, Sunday only—
Leaves Trail 11:00 a. m.
Arrives at Rossland 11:45 a. m.

Connection made at Trail with ALL STREAMS, both up and down the Columbia river.

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Rossland, B. C.

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Fully Paid and Non-Assessable.

Treasury:
500,000 Shares

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Vice-President—WM. BENNISON, Rossland, B. C.
Managing Director—J. W. COVER, Rossland, B. C.

Secretary Treasurer—T. G. ELGIE, Rossland, B. C.

Consulting Engineer—C. W. CALLAHAN, London, Eng., and Rossland, B. C.

Properties (80 acres): **RED EAGLE** and **RED POLE**, in the famous South Belt—Trail Creek Mining District, B. C.,—adjoining Mayflower and Curlew.

Assays of ore from surface of Red Eagle give results ranging from \$20.00 to \$28.80. The Red Eagle has been surveyed, and a crown grant applied for. The first block of Treasury Stock is now on the market at 7½ cents, subject to advance without notice. The work of development has commenced, and will be prosecuted vigorously.

Intending investors are invited to examine the Red Eagle properties.

For prospectus and full information, address:

Remittances may be made through the Manager of the Bank of
British North America, Rossland, B. C.

WM. BENNISON & CO., Mining Brokers,
Shaw Block, Rossland, B. C.

inlet, and then be carried in a northeasterly direction, striking the Rockies at the Yellow Head pass, the object being to form eventually another transcontinental line to the north of the Canadian Pacific. How the Canadian Pacific Railway people would like this is a question, but there can be no doubt such a road would be of immense service to British Columbia. Some hitch has arisen between the company and the local government on the question of the financial assistance to be given by the latter, but it is probable that the construction of the road will not be much longer delayed. Several other smaller lines are in process of construction, and some \$15,000 has lately been voted for surveys. British Columbia, in fact, is waking up, and if its mineral wealth only turns out to be a third of what is confidently expected, its development is likely to be rapid."

OIL STRIKE IN ONTARIO.

Now it is an oil boom. The oldtime oil fields of Bothwell, Ontario, are again to the fore, and, according to the Toronto World, "American and Canadian prospectors and speculators are now as thick as bees in the Bothwell district. The farms for a stretch of six miles or more have all been leased or otherwise secured. The farmers of the district have become demoralized. They are abandoning their farms to the oil men. Most of them expect to spend the rest of their days as independent gentlemen, living in opulence on the oil royalties of their farms."

It is surprising that so little has been heard in Toronto about the oil excitement in Bothwell. It looks very much as if there had been a conspiracy among the operators to keep the thing quiet until they had grabbed up the whole of the field. Whether the papers have been silent from interested motives or not, it is true that an oil boom is now under way in Bothwell, and it is growing fiercer every day. There is a possibility that the excitement that raged in the early '60's may be repeated next spring.

The extent of the oil territory, so far as known, is about six miles by two. The depth of the oil rock averages about 380 feet. It costs \$1.25 per foot to bore the hole and 65 cent per foot for the steel casing. This casing is eight inches in diameter and is pounded down length by length as the drill makes the opening for it. It takes about three weeks to sink a well. The total cost of putting down a well averages about \$650. In Petrolea a well can be sunk for considerably less money, but in Pennsylvania and Ohio they often have to go down 1200 and 2000 feet before they get oil. The Bothwell field is, therefore, a comparatively cheap one to operate in. A drilling outfit cost from \$1200 to \$1500.

Petrolea produces about 54,000 barrels of oil per month. The wells have been pumping for thirty years, and there are more than two thousand of them. The production of a well in Petrolea, when first drilled, will not average more than one barrel per day. This amount gradually diminishes to one-half a barrel per day, which is the average normal output of a Petrolea well. Oil Springs produces

11,000 barrels a month. The average output of a well there is one-third barrel per day. The Bothwell wells have started out with a much larger output than those in either Petrolea or Oil Springs. If they maintain their present capacity, or even 50 per cent. of it, they will turn out quite profitable. That the wells will be permanent is the general opinion of all the practical oil men of the district. In Petrolea a well can be pumped at a cost of about 25 cents a day. The same thing is not yet possible in Bothwell, because the wells are few in number and scattered. The cost of operating the wells will decrease according to the increase in the number of wells. One pumping plant can operate as many as 100 wells. In due time the same economy that prevails in other oil fields will obtain at Bothwell, and half-barrel wells will be remunerative. A 100-barrel well is a nice property to possess. The cost of pumping, even in Bothwell under present conditions, will not exceed \$6 a day. Crude oil sells at \$1.46 per barrel at the railway. A 100-barrel well will produce a revenue of \$146 a day and a profit of \$140. The owner of the land gets a royalty of from one-fifth to one-eighth of the production, according to the bargain made. Thirty or forty wells are frequently put down on a hundred acre farm. An average of three barrels per well would make such a property a very profitable one. The people of Petrolea for a long time belittled the Bothwell field, but they are now tumbling over one another to get into the territory.

TREATING LOW GRADE ORES.

In time to come some cheap process for the treatment of low grade ores will doubtless be perfected. Only when this comes to pass will the importance of this district be fully realized. In the meantime several experimental systems of reducing base ores at low cost are receiving attention. The latest to be given publicity in Canada is the Flauvel process, regarding which the following appears in a Toronto exchange:

Mr. C. S. Drummond of London, Eng., representing a new process for the reduction of sulphide ores, has just been at Rossland, and is now on his way back to the old country. The object of his hurried visit to the camp was to secure certain information for a company organized in London for the purpose of introducing this new process of treating ore into British Columbia, and especially into the Trail Creek district. The company is now in possession of patents covering the entire Dominion of Canada, and will build furnaces in the Sudbury district of Ontario as well as at Rossland. Mr. Drummond expects to return to Rossland about February 1, when, he says, he will take immediate steps towards the construction of a reduction plant.

The furnace to be used is the invention of Dr. Flauvel, the great expert, and has been employed in South Africa and Colorado. At Ward, Col., 100 tons of \$5-ore are being put through every day.

The Flauvel furnace does not involve a new principle, but presents the new application of principles already recognized. Wood can be used as the fuel.

It is said the ore is first reduced to thirty mesh fineness by stamp or rock crusher and rolls, then fed into a tower forty feet high and precipitated on plates heated to varying degrees of temperature by the furnace, the flames never coming in contact with the ore, but the work of oxidization being accomplished by air heated to 1000 degrees. When the ore reaches the bottom of the tower it is at 1000 degrees of temperature, and at that temperature comes in contact with cold running water, which causes an explosion and disintegration of the ore particles, thus releasing the gold, the sulphur, arsenic and other volatile constituents having been previously liberated. The gold is then collected in ordinary pans, and the copper goes off in the tailings, from which it is afterwards recovered by a leaching process. The cost of this furnace is \$10,000. The rock crusher and rolls, boiler, etc., cost probably \$5,000 more, making the total cost of the plant about \$15,000.

Mr. Drummond says the furnace can reduce Trail Creek ores for \$1 a ton. This we understand to be the net cost. His plan is to have mine-owners erect furnaces for their own separate mines and charge a royalty on the tonnage. Of course, if Mr. Drummond can treat the ore for any such price it simply means he will effect a revolution by making available ores which are now too low-grade for successful treatment. It means that \$10 ore can be treated at a profit.

Mr. Drummond is arranging to have a carload of ore from the Rossland mines shipped over to Swansea immediately for treatment. He says 500 pounds of Trail Creek ore went over from Spokane last summer and that the Flauvel furnace at Swansea saved 93 per cent. of the gold. The return of Mr. Drummond will be awaited with interest. He is entirely confident of the ability of his company to treat the low-grade ores of Rossland camp successfully.

AUSTRALIAN CLAIM OWNERS' TROUBLES.

The rapid increase in claims taken up and mining companies organized in Western Australia seems likely to cause some trouble to the mine owners. Under the mining law of the colony the holder of a mineral lease is bound to keep at least one man at work on each three acres included in the lease. A large number of miners have gone to the colony during the past two years, but many of them are prospecting and locating claims on their own account, and the number of men available has not increased by any means as fast as the number of leases. Some of the companies find themselves under the necessity of importing men from other parts of Australia, which takes time and is expensive, while the men are not always to be had when wanted, nor are they always kept after their arrival at the mines. Wages are already high according to the Australian standard, £4 and £5 per week being paid, and it is quite possible that the rate will go still higher. It is becoming more and more difficult to obtain skilled miners, and almost any sort of labor is accepted. There is no supply of native labor to be had in Western Australia, as there is in South Africa, and the labor question is a growing difficulty just now. Very probably the demand will decrease after a time, but there is no immediate prospect of such a change.

THE MINING REVIEW

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

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

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EDITORIAL NOTES.

THERE is not a little truth in the saying of an eastern editor, that British Columbia will prove the best immigration agent Canada ever had.

It requires but a glance at the prospectuses of some of the newly incorporated companies to assure one that many of the best and most conservative financiers and business men of the east are becoming interested in the mines—not those of Trail Creek alone, but throughout the whole province.

A somewhat ridiculous report, which is afloat in the east, is to the effect that the recent assessment on Poorman stock was levied for the purpose of bearing the market and squeezing out small holders. The following dispatch, sent from Spokane to a firm of brokers in Toronto, probably originated the rumor: "Poorman is the most active stock on the list, and it looks as though someone was picking it up for a stronger purpose than an immediate speculative one." The report scarcely requires contradiction or comment. That there was a good reason for the assessment is well known. THE REVIEW is informed on good authority, however, that an organized attempt is being made by minority holders to secure control of the property, and this with the cognizance of the present management. It is said that a good deal of cheap stock was picked up in the flurry that followed the announcement of a levy, and it is likely that before long the management of this fine property will be in new hands.

If rumors current in the east be true, Sir Charles Tupper will cut something of a figure in Trail Creek. It is said he is a member of the syndicate which is to utilize the water power of the Pend d'Oreille river in supplying electric power to the mines as well as light and power throughout the town. We shall be glad to welcome Sir Charles to Trail Creek. His name and influence will benefit the district, and the district will benefit Sir Charles.

THE London papers are devoting considerable space to Trail Creek and British Columbia, and interest in this district seems to be increasing in the World's Metropolis. There is need, however, of the dissemination of more correct information. The article which we reprint from the Financial Times contains several inaccuracies. Let the Rossland Bureau of Information take it upon itself to furnish the papers of London and other distant cities with facts. Let the truth be known in the outside world and the Kootenays will prosper.

Plans have been prepared for a postoffice more in keeping with the size of the town and the amount of postal business transacted here than the one-horse concern which has done duty up to the present time. The new office will be made ready as soon as possible and the postmaster will have the services of seven assistants.

MARKET REPORT.

Transactions in the local stock market during the week showed a noticeable improvement. There was activity in a large number of interests, and prices, on the whole, were well maintained. At the same time, many stocks are selling at prices much below their actual value. The newer stocks are being bought freely. Victory-Triumph is a first favorite, while Red Eagle is in considerable demand. Waneta-Trail Creek is selling well on the fine showing in the workings. Deer Park, while quoted at 18½, is not to be had in quantity at that figure. We look for a substantial advance in this stock in the near future. Orphan Boy is selling well, the check caused by the advance in price having been only temporary. Poorman is held at 9 cents, any offerings finding ready purchasers. Canadian Goldfields continues in demand, and Cambridge treasury is lively. Mugwump is firm and active.

COMPANIES.	CAPITALIZATION.	PAR VALUE.	MARKET PRICE.
Alberta	\$1,000,000	\$ 1 00	t 10
Alamo	500,000	\$ 1 00	*
Butte Gold Copper	1,000,000	1 00	t 07½
Big Three	3,500,000	1 00	t 10
Caledonia Con.	500,000		t 11
California	2,500,000	1 00	15
Cambridge	1,000,000	1 00	t 08
C & C.	500,000	1 00	*
Centre Star	500,000	1 00	*
Celtic Queen	750,000	1 00	t 05
Commander	500,000	1 00	t 26
Crown Point	1,000,000	1 00	45
Colonna	1,000,000	1 00	t 15
Cariboo	800,000	1 00	36
Cumberland	500,000	10 00	* 36
Deer Park	1,000,000	1 00	18½
Elise	1,000,000	1 00	t 15
Enterprise	1,000,000	1 00	*
Eureka	500,000	1 00	t 05
Evening Star	1,000,000	1 00	18
Georgia	1,000,000	1 00	20
Good Hope	500,000	1 00	8
Great Western	1,000,000	1 00	16
Grey Eagle	750,000	1 00	
High Ore	500,000	1 00	07½
Homestake	1,000,000	1 00	17
Hall Mines	£300,000	£1	8 15
Hilltop	1,000,000	1 00	t 10
Idaho	500,000	1 00	*
Iron Colt	1,000,000	1 00	t 15
Iron Horse	1,000,000	1 00	*
Iron Mask	500,000	1 00	75
Ivanhoe	1,000,000	1 00	t 10
Josie	700,000	1 00	55
Junbo	500,000	1 00	68
Juliet	1,000,000	1 00	t 12
Kohinoor	1,000,000	1 00	t 10
Kootenay-Columbia	40,000	100 00	*
Kootenay London	1,000,000	1 00	12½
Le Roi	2,500,000	5 00	7 50*
Lily May	1,000,000	1 00	15
Mayflower	1,000,000	1 00	15
Monte Cristo	1,000,000	1 00	18
Mugwump	1,000,000	1 00	t 20
Monita	750,000	1 00	t 20
Minnesota	1,000,000	1 00	*
Northern Belle	1,000,000	1 00	t 15
Noble Five Con.	1,200,000	1 00	40
Old Ironsides	1,000,000	1 00	15
O. K.	1,000,000	1 00	30
Orphan Boy	700,000	1 00	t 15
Phoenix	500,000	1 00	t 12½
Poorman	500,000	1 00	9
Red Mountain View	1,000,000	1 00	20
Rossland, Red Mt	1,000,000	1 00	20
Rambler Con.	1,000,000	1 00	*
St. Elmo	1,000,000	1 00	13
Silver Bell	1,000,000	1 00	t 07
Silverine	500,000	1 00	10
Southern Cross & W Con.	500,000	1 00	20
St. Paul	1,000,000	1 00	t 10
Slocan Star	500,000	50	2 15
Sunshine	500,000	10 00	*
Trail Mining Co.	250,000	100 00	*
Union	600,000	1 00	*
Victory-Triumph	1,000,000	1 00	t 10
Virginia	500,000	1 00	22½
War Eagle	500,000	1 00	1 60
West Le Roi	500,000	1 00	26
White Bear	500,000	1 00	*
Young British America	1,000,000	1 00	t *
Wonderful	1,000,000	1 00	15
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.

C. F. CLOUGH, President. I. J. McATEER, V. Pres. & Treas. J. F. PIGGOTT, Secretary

C. F. CLOUGH & CO.

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Represented by GEO. GURD, Secretary.

THE CANADIAN GOLD FIELDS SYNDICATE, LIMITED.

To Investors. We deal only in special investments. If upon thorough investigation a proposition pleases us we present it to the public. Since establishment of our business we have brought out or endorsed but three properties, namely: The "Butte," "Young America" and "Mugwump." Each of these we pronounced first-class investments at their respective prices. We have been privileged to see the shares of each advance fifty to five hundred per cent. over original quotations. We firmly believe that, under vigorous, intelligent direction, each of the properties named will develop values outstripping the most sanguine expectations entertained for them. We believe this so very emphatically that we will accept any of the said stocks bought from us, at cost, in exchange for the stock of any other proposition which we are now promoting.

However, we are obliged to admit that the most attractive investment we have ever been permitted to offer is the fully-paid, absolutely non-assessable shares of The Canadian Gold Fields Syndicate, Limited, at 10 Cents a Share.

WHY? Because instead of risking all upon the result of a single undertaking the Canadian Gold Fields Syndicate, Limited, will take up and investigate one property after another until it has acquired the cream of permanent, producing, dividend-paying mines.

Because each share will participate equally with all other shares, although the syndicate's operations will undoubtedly continue throughout many years.

Because The Canadian Gold Fields Syndicate Limited will be governed by the stringent Imperial Companies Act, (1862), EVERY SHARE BEING ABSOLUTELY NON-ASSESSABLE, SO THAT NO POSSIBLE FURTHER LIABILITY CAN ATTACH TO PURCHASERS OF THESE SHARES AT THE PAR VALUE TEN CENTS.

Because there are no promoters' shares, all of the stock being devoted to the acquirement of mines and their development, equipment and operation for the shareholders' profit.

Because the gold-copper and silver-lead properties now controlled by the Canadian Gold Fields Syndicate are absolutely first class and all of the syndicate's further acquirements will be selected with most scrupulous care.

Because in the natural prosecution of the syndicate's business namely: the acquirement, exploration, development, equipment, operation, and sale of mines, mine products, etc., etc., wherever satisfactory profit is assured, THE FULLY PAID, NON-ASSESSABLE SHARES NOW OFFERED AT TEN CENTS WILL UNDOUBTEDLY STEADILY ADVANCE IN MARKET VALUE.

THE SUNSET GROUP,

on Deer Park Mountain, adjoining Rossland, are now being actively developed by the Canadian Gold Fields Syndicate, Limited.

The Shaft on the Sunset No. 2 is now down 40 feet, and THE WHOLE SHAFT IS IN PAY ORE.

Five assays made from fair samples clear across the shaft give the following results in gold:

No. 1, \$14.00 in Gold; No. 2, \$42.00 in Gold; No. 3, \$50.40 in Gold; No. 4, \$48.00 in Gold; No. 5, \$56.00 in Gold.

Is there another shaft in the camp that will give equal results?

A trial shipment of three carloads of ore will be made this month.

Assays and samples of ore can be seen at the office of the Walters Company. Intending purchasers of stock are cordially invited to call at the Company's office, when they will be taken to examine the mine.

Subscriptions are now invited for the fully paid non-assessable shares of The Canadian Gold Fields Syndicate Limited at ten cents per share. No order filled for less than five hundred shares. Send orders and remittances direct or through any bank.

THE WALTERS COMPANY, General Mining Brokers, Rossland, B. C.

REPORT ON THE VICTORY-TRIUMPH.

W. A. Crane is one of the most conservative mining experts in the district, but he is enthusiastic when he speaks of the Victory and Triumph. In his report to the promoters of the Victory-Triumph Gold Mining Company he says:

"The Victory and Triumph are situated on Sophie mountain, about eight miles southwest of Rossland, between Big and Little Sheep creeks, a short distance north of the International boundary line, and about four miles by trail from the Red Mountain Railroad. The Victory vein on the Victory claim lies on the steepest portion of the mountain; on the Triumph, on more level ground. I found the vein to be an immense fissure vein, distinctly traceable through the full length of both the Victory and Triumph. It is fully twenty feet wide wherever exposed, carrying a filling of chalcidonic silica, oxide of lead and copper (both chalcopryrite, malachite and azurite). In places where erosion has been greatest this vein outcrops several feet above the adjoining country rock of shale and mica trachyte. But little development work has been done, only a few open cuts across the vein having been made, and a tunnel 45 feet long having been driven on the ledge. There is a splendid showing of ore on the surface, about 400 feet from the southwest end line. A tunnel was started about 400 feet to the northwest of this showing, with the view of tapping this chute at a depth of about 350 feet, the gain in depth in the tunnel being nearly foot for foot. Only a few feet from the mouth of the tunnel a fine body of ore from nine to twelve feet wide was opened up. This carries gold, silver and copper. Their combined value at the present depth is about \$20. This is a fine concentrating ore and very valuable in itself, but the tunnel will almost certainly encounter much better ore when it reaches the rich chutes which have been located on the surface of the ledge further to the north. I found ore all along the surface of this ledge on both claims, and every specimen carried value.

"The Triumph vein, well known as the 'copper ledge,' enters the Triumph ground near the north end line, running diagonally across the claim in a

northeasterly direction, crossing the Victory vein at nearly right angles. It is impossible to define the width of this vein at the present stage of development. It is an immense outcrop of porphyritic shale and quartz, at least sixty feet wide in places. I traced this vein clearly across the Triumph and Portland, finding the same characteristics all through. This outcrop is thickly seamed with a very high grade of azurite and chalcopryite, which runs as high as 25 per cent. copper and \$20 gold. But little development is done here. There is a small cut at the discovery which shows copper everywhere, and a shallow cut on the ledge about midway between the side lines of the claim, which shows over its entire length seams from three to eight inches wide of the finest copper ore ever seen in this district. I found also a vein running parallel to the Victory ledge through the length of both claims, and about 200 feet to the east of the Victory vein. This has not been prospected and I had no means of determining its value. To summarize:

"I consider this property a very valuable one. The rich copper ore on the Triumph ledge will be much sought after by smelters, and the Victory vein is certain, I think, to prove of great value. The claims can be very cheaply developed, as the ground is easily worked, and there is plenty of timber and water on the claims. A wagon road or railway spur can be easily and cheaply constructed along Sheep creek to the Red Mountain Railroad. When the Columbia & Western Railway is extended westward it must pass within a mile of the property. In conclusion I will say that the Victory and Triumph have the finest surface showing to be seen in the entire district."

An assay of 30.4 per cent. copper and \$3 in gold has been obtained from ore taken from the Triumph shaft.

THE VULCAN'S AFFAIRS.

Replying to an insinuating paragraph regarding the Vulcan, appearing recently in a local paper, Dr. J. F. Reddy has issued the following statement:

The Vulcan is capitalized for \$1,000,000, of which

200,000 \$1 shares were put in the treasury, and they are all there yet. The promoters also put \$1,000 in cash in the treasury, which is all there, too. The promoters also paid for the claim in full and had it surveyed for a crown grant, but as there was not quite the necessary \$500 of work done on the claim, the certificate of improvements has not yet been issued.

"The directors of the company considered it advisable in the interest of the stockholders not to expend any of their funds in development at present, as the extensive development work now being done on adjoining claims, especially the Commander, is daily enhancing the value of the property, and will consequently enable the company to realize a higher price for its treasury stock when it is put on the market.

"The title to the Vulcan is vested in J. D. Farrell and myself as trustees, and this deed is in the Traders National bank in Spokane. It was an oversight that it was not placed on record before.

"The directorate of the company is as follows: J. D. Farrell, of Spokane, president; Ben C. Nichols, of Spokane, vice-president; George J. Reiner, of Spokane, secretary and treasurer; directors, in addition to the above, T. E. Jefferson and myself."

WORK ON THE CRACKERJACK.

A contract has been let for a fifty-foot shaft on the Crackerjack, and work on this promising prospect will go on immediately. The claim adjoins the Green Mountain and Anaconda claims, and has three ledges. The work done so far consists of an open cut of forty-eight feet, and two shafts, respectively ten and seventeen feet in depth. The seventeen foot shaft is sunk on an eight-foot ledge and is all in ore, which carries an unusually high percentage of copper. A strong company has been organized for the Crackerjack, the directors being W. C. Jones, M. C., P. A. O'Farrell, J. F. Reddy, G. J. Reiner, L. W. Mulholland, J. D. Farrell and H. C. Bell. F. A. Heinze is also interested. W. McCullom, the superintendent, began work today. Treasury stock will be on the market within a few days.

THE MINING REVIEW

CHRONICLES FULLY AND FAIRLY THE

MINING NEWS OF THE TRAIL CREEK DISTRICT

AND BRITISH COLUMBIA GENERALLY.

IT IS AN INVALUABLE MEDIUM FOR ALL

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The Mining Review, Rossland, B. C.

ARE THERE CANADIAN DIAMONDS?

There is food for speculation in the following paragraph which appears in an exchange:

"The existence of diamonds in the glacial ice sheet of Wisconsin furnishes an interesting speculative subject. This glacial ice sheet was brought during the glacial period from somewhere in the north, and wherever it came from it is reasonable to expect that there are deposits of diamondiferous rocks. They may be considered analogous to ore which the prospector finds. It is certain that it came from an ore vein or deposit. Where this deposit of diamondiferous rock lies can only be a matter of speculation. Prof. Hobbs, in an article read before the Wisconsin Academy of Sciences, points out two regions in which the geological conditions are such that they may contain the diamonds. They are in the Menominee district, in northwestern Wisconsin, and in the Pigeon river on Lake Superior. In both of these places basic intrusive rocks have cut through carbonaceous shales, as in the diamond regions of South Africa. In Michigan, too, a diamond weighing 10 $\frac{1}{8}$ carats has been found in the glacial drift. In Wisconsin there have been several found. One in Waukeshaw county weighed 15 12-32 carats, and one in Washington county weighed 24 $\frac{1}{4}$ carats. These are the largest yet found. North of Lake Superior, reaching to Hudson's Bay, there is a comparatively unexplored region of country, and it is in this that the original location of the diamonds is expected to be discovered. This country is also known to contain gold and silver."

Today we are only scratching over the mineral deposits of this great Dominion. Decades hence, whether these diamond deposits are discovered or not those who succeed us will begin to realize the extent of the country's natural wealth, and before many more pages have been added to the world's history it will be known to all nations that Canada possesses the greatest deposits of precious minerals on the face of the globe, and we now are on the dawn of an era of great prosperity.

INCREASED COPPER PRODUCTION.

The exportations of copper from the United States during 1896, says an authority, have been unprecedented in the history of American copper production. While the United Kingdom, France and Germany are the greatest buyers of American copper, the other countries of Europe have taken a third of the total exports this year. Consumption of copper throughout Europe has been unprecedented.

The exports of fine copper from the United States during the first nine months of 1896 have been 109,812,480 pounds, as against 109,421,870 pounds during the same period in 1895. Notwithstanding these enormous exports, the visible supply in England and France and afloat thereto, from Chile and Australia is over 18,000 tons less than a year ago.

The average monthly exports from the United States amount to 22,201,386 pounds of copper. To a considerable extent this increase in the production of copper in the United States must be ascribed to the immensely increased output of the gold-copper mines of Trail Creek.

The Zilor syndicate, of which F. Aug. Heinze is a member, has set out to make a mine of this well-known claim, and the result of the work done so far has been most satisfactory. Howland Stevenson is in charge of the work, and it is needless to say that it will be prosecuted in a vigorous manner. Zilor ore is of the same character as that found in the Red Eagle, Mayflower, Silver Bell and other famous south belt properties. The last assays from the Zilor ran \$29.15, \$32.61 and \$40.

Some fine rock was brought in from the Reservation yesterday by Mr. W. H. Harris, of the Joseph-Le Roi company. On the property of the company there is a shaft twenty-three feet deep, in which there is a showing of ore that would gladden the heart of many a Trail Creek prospector could he but see it on his claim. Many Reservation claims, Mr. Harris says, will be worked all winter.

CERTIFICATE OF IMPROVEMENTS.

CAMBRIDGE MINERAL CLAIM.

Situate in the Trail Creek Mining division of West Kootenay district. Where located: About 4 miles south east of the town of Rossland, on Violin Creek.

TAKE notice that I, N. F. Townsend, as agent for H. S. Wallace, No. 72,405; John Elliott, No. 75,011, and Ernest Miller, No. 72,357, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements, for the purpose of obtaining a Crown grant of the above claim.

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

Dated this 10th day of October, 1896.

N. F. TOWNSEND.

CERTIFICATE OF IMPROVEMENTS.

VICTORY MINERAL CLAIM.

Where located: On Sophie Mountain, in the Trail Creek Mining Division of West Kootenay, District of British Columbia.

TAKE notice that I, A. R. Macdonald, acting as Secretary of Victory-Triumph Gold Mining Company, Limited Liability, free miner's certificate number 77279, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements for the purpose of obtaining a Crown grant of the above claim.

And further take notice, that action under section thirty-seven must be commenced before the issuance of such certificate of improvements.

Dated this 1st day of December, 1896.

A. R. MACDONALD.

CERTIFICATE OF IMPROVEMENTS.

TRIUMPH MINERAL CLAIM.

Where located: On Sophie Mountain, in the Trail Creek Mining Division of West Kootenay District of British Columbia.

TAKE notice that I, A. R. Macdonald, acting as Secretary of Victory-Triumph Gold Mining Company, Limited Liability, free miner's certificate number 77279, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements for the purpose of obtaining a Crown grant of the above claim.

And further take notice that action under section thirty-seven must be commenced before the issuance of such certificate of improvements.

Dated this first day of December, 1896.

A. R. MACDONALD.

CERTIFICATE OF IMPROVEMENTS.

EMERALD MINERAL CLAIM.

Situate in the Trail Creek Mining division of West Kootenay district. Where located: East of and adjoining the town of Rossland.

TAKE notice that I, N. F. Townsend, acting as agent for Hirschel Cohen, free miner's certificate number 72884, intend, sixty days from the date hereof, to apply to the Mining Recorder for a certificate of improvements, for the purpose of obtaining a Crown grant of the above claim.

And further take notice that action, under section thirty-seven, must be commenced before the issuance of such certificate of improvements.

Dated this 23rd day of November, 1896.

N. F. TOWNSEND

"CAMBRIDGE"
TREASURY STOCK,
AT 8 CENTS.

"CAMBRIDGE"
TREASURY STOCK.
AT 8 CENTS.

...BUY CAMBRIDGE

Treasury Stock,

AT 8 CENTS PER SHARE.

Development work done by promoters has greatly improved the appearance of the property.

Title perfect.

Crown Grant in course of issue.

Work to be commenced shortly and kept up till the Mine is ready to ship.

Steady appreciation in Cambridge Stock is a certainty.

No better speculative investment at the price in Trail Creek.

Orders for Stock accompanied with remittances to

MELFORT BOULTON,

130 JORDAN STREET, TORONTO.

OR TO THE OFFICE OF THE

CAMBRIDGE GOLD MINING CO.,

Room 7 Hart Block, ROSSLAND, B. C.

"CAMBRIDGE"
TREASURY STOCK,
AT 8 CENTS.

"CAMBRIDGE"
TREASURY STOCK,
AT 8 CENTS.

A SPLENDID INVESTMENT.**VICTORY-TRIUMPH**
Treasury Stock at 10 Cents.**PROVISIONAL DIRECTORATE.**

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 Vice-President—OLAUS JELDNESS.
 Secretary-Treasurer—A. R. MACDONALD.
 Trustee—JEFFERSON LEWIS.

Bankers:
 BANK OF BRITISH NORTH AMERICA.

Office—ROSSLAND, B. C.

Mines—SOPHIE MOUNTAIN.

Solicitor:
 W. J. GREEN.

Capitalization:

\$1,000,000 in One Million Shares, \$1 Each, fully
 paid and Non-Assessable.

Treasury Stock, 250,000 Shares.

A Block of 50,000 Shares of the Treasury Stock
 is now on the Market at 10 cents, subject to
 advance without Notice.

PROPERTY: Victory, Triumph and Triumph Fraction, eighty-five acres in all, located on Sophie Mountain, Big Sheep Creek, Trail Creek Mining District.

DEVELOPMENT: The promoters of the Company are vigorously prosecuting the work of development, and the showing on property is excellent. On the famous Victory ledge, which runs nearly 2,500 feet through the claims, there are several open cuts and a working tunnel now in over 40 feet. In this there is a large body of solid ore, carrying gold, silver and copper, average assays running near the pay limit, while the ore improves from day to day, as depth is gained. On the Triumph there is a copper ledge, crossing the Victory vein at nearly right angles. This has the finest surface showing of copper ore, carrying gold, ever seen in the camp. On December 5th, when starting a working shaft on this ledge, the miners uncovered ore which assayed over 22 per cent. copper. Work on this shaft and the Victory tunnel will be continued without cessation, the promoters having placed sufficient funds in the treasury to guarantee the work for several months.

At a Depth of 8 feet Triumph Ore assayed 30.4 per cent. Copper and \$3.00 in Gold.

VICTORY-TRIUMPH will soon advance in price.

F. M. GILLESPIE & CO., *MINING*
BROKERS.

Agents for the Sale of Treasury Stock.

P.O. DRAWER T,

P. O. BLOCK, ROSSLAND, B. C.