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# THE B. C. MINING EXCHANGE AND INVESTOR'S GUIDE

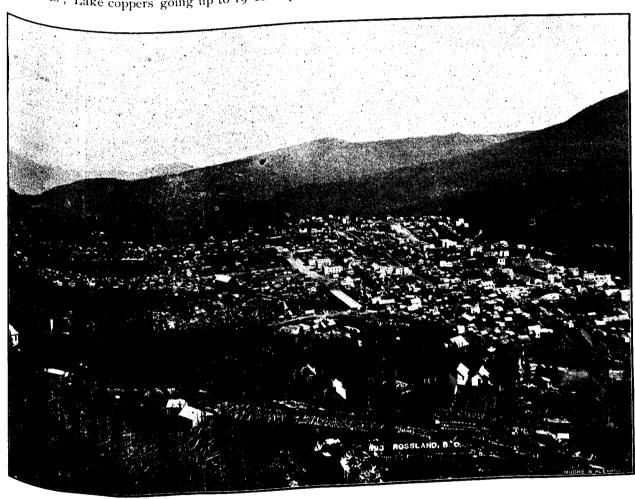
And Mining Tit-Bits.

Vol. I.—VANCOUVER, B. C., DECEMBER, 1899—No. 12.

#### REVIEW OF 1899.

During the year a new impetus has been given to eral hrome the year a new impetus has been given to Several branches of mining, more particularly in Copper Tuesday, The Several branches of mining, more particularly in value, mining. In 1898 copper rose considerably in value, build to the state of the state Owing In 1898 copper rose considerably in value of the immense increase in demand for electrical purposes purposes. Early in this year the great mines of America amalo. Early in this year the great mines of a immense rica amalgamated, with, as a consequence, an immense in price in p rise in prices; Lake coppers going up to 19 cents per

some demand for properties in B. C., but as there has been no market heretofore the prospector has passed it by as useless. The same applies to antimony, which is very largely used in the manufacture of type, and as a means of hardening other metals. Some excellent properties have been located lately in the Yale district, containing extensive veins averaging over 40 per cent. of this mineral. Japan has hitherto been meeting



Considerable. Owing to the considerably in excess of the output. Owing to the working of the combine there was a decrease in October to 171/2 Combine there was a decrease in October to 171/2 Combine there was a decrease in October to 171/2 Combine there was a decrease in October to 171/2 Combine there was a decrease in October to 171/2 Combine the Octob to 171/8 of the combine there was a decrease in October tween that and from then till now has fluctuated beof this improvement and 18.50 cents. The natural result on the state of this improvement and the state of of this immense demand and rise in value has been the opening up of whole new districts, more specially in British Columbia: in the Smilkameen, East Kootenay, I and Revelstoke Division and Boundary Columbia: in the Smilkameen, East Rootens, Lardean, Columbia and Revelstoke Division and Lardean, Rossland and Revelstoke Division what Landary Camp, Rossland and Revelstoke Division.
Can be as and as far as indications go, and from what can be ascertained from work done, the supply is almost inexhaustible.

Molybdenum has come largely into use and is tered in value, as the mineral is rarely encountered in the companion of the comp tered in any considerable bodies. There has been

There is only one company the demand in this line. handling the reductions of the ore; this is operating at San Francisco and New York.

Within the year, ores, containing what has hitherto been a deleterious quality of zinc, are being bought up for treatment at Manchester, England, by a company that has brought out a process by which the zinc is saved. As the demand is at present, and likely to be, far above the supply, mining for zinc itself is likely soon to become extensive in the Province, and as there are few of our ores which do not contain it in considerable quantities, it may be expected that reduction plants will be erected in the Province.

Discoveries of other minerals, of more or less value, have been reported: as instanced in the Soda Lakes,

near Ashcroft, tests of the deposit proving it to be equal to the best manufactured washing powders, The area of this deposit is very considerable.

Gypsum has also been discovered in several places in large bodies, and alum in the East Kootenay and on

Although the ore shipments have fallen off considerably during the year, owing principally to the lockout in the Slocan, general progressed with enormous strides.

New camps have opened on every side, and with railroads branching out in all directions, the coming year should be one of great prosperty. Amongst the most noteworthy events of the year have been the legislation on alien labour and working hours in mines; neither have had a beneficial effect on the country, and the eight hour law has raised dissent between labour and capital which did not exist formerly. Great hopes are entertained that an agreement will shortly be arrived at, and the working of the Slocan Camps be resumed. The immense developments in the Greenwood, and generally, in the Boundary Camps are worthy of special note. A year ago the district was practically unknown; to day, hundreds of properties are making considerable output and only awaiting the completion of a smelter being built in the locality to ship. A number of prominent mines have changed hands and management, and many improvements have been made on them. The use of electricity in connection with mining operations has made great strides and promises still greater ones during the coming year, as many charters are being granted for new companies to

## MINERAL BELTS OF BRITISH COLUMBIA.

BY C. R. GRAVES, M.E., F.I.M.

The Quartz mining regions of the interior of British Columbia, in which any great extent of development has been done, are the East and West Kootenays and the South Eastern portion of the Yale District. The minerals in these districts are contained in three distinct belts, that round Rossland, Trail and a portion of the Eastern Boundary of Yale District being contained in an eruptive series of dioritic rocks. From these points toward the westward, passing outwards, northward on the Rossland side and westward on the Yale side, the valuable mineral belts are contained in a series of crystaline metamorphic formation and are many miles in thickness, consisting of layers of schists (mostly talcose and graphitic), limes, carbonaceous slates and silections shales overlaid again with a belt of lime of great thickness interlaid with belts of quartzites and dioritic and porphorytic intrusive rock and some dykes of the same nature, that in a northerly direction passes through the Slocan and bending to the westward runs on through the Lardeau district and on, always trending more to the westward, through the Revelstoke division, and on to Shushwap Lake in the Kamloops division of the Yale District, where it becomes almost lost being broken up by a series of intrusions of trap, which form a mineral belt apart. The same series of crystaline rocks are encountered again on the south side of the district and occur in the Okanagan district and connect with those mentioned as passing westward from the border of the Yale and Trail Creek districts. It will be seen from this that they form a circle, irregular in outline, which is broken through at two nearly opposite points by two very extensive intrusions; i. e., that at Rossland and

Kamloops, the centre of this irregular circle is completed of intrusive constitution of this irregular circle is complete. ed of intrusive granitoid and syanic rocks, these again have in places and the syanic rocks, these again have in places and the syanic rocks. have in places, such as in the Slocan and at Revelston broken through the arms the Slocan and at Revelston and the slocal and the slocal and the slocal and the slocal slo broken through the crystaline rocks but have not placed them for any very placed them for any very extensive areas. of this circle will be at a point not far west from head of the Upper A head of the Upper Arrow Lake. The dip of the challing rocks in taline rocks is, generally speaking, away from centre of the sign. centre of the circle, and the reason for this can be resimply demonstrated to simply demonstrated by closing ones fist and passite the knuckles through the knuckles through a sheet of news paper allowing the the paper to hang down, the knuckle representing intrusion of the growth. intrusion of the granites and the paper the crystalist formation. The Root Variable in the paper the crystalist in the cry formation. The East Kootenay mineral belt lies in same formations have same formations but, is mostly due to more the cent disturbances, which show themselves in manner of porphyritional formation to the cent disturbances. manner of porphyritic and felsic dykes, of great extent A series of these remains a series of the series of A series of these run at almost straight lines, slight diverging in a south at almost straight lines, forming diverging in a south-easterly direction, and form the ranges of mountains lying between the Columbia and Kootenay Rivers and Kootenay Rivers, and West Kootenay divident, the most northern line, the most northerly of them, cutting over into Rockies for some discontinuous actions of them and the control of them are not the control of them. Rockies for some distance beyond the Winderstellakes, these dykes are Lakes, these dykes occur mostly through Fort Steek Golden and Donald at the Householden Steek Fort Steek Golden and Donald divison. The formations much folded and tite 1. much folded and tilted by the intrusions and carried by dykes with great the intrusions and carried by dykes with great alterations in their structure and consequent fissuring. consequent fissuring. It has been found also that in the Rocky Mountains and the center of the cente Rocky Mountains, running nearly through the center of the range, there is a dykes of of the range, there is another series of similar dykes of about the same ago and about the same age and apparently creating another mineral belt, but the mineral belt, but there has not been sufficient exploration as yet to fully determine this. The other mineral belts throughout R C belts throughout B. C. are consequent on distinct and separate volcanie was consequent on distinct and separate volcanie was a separate volcanie was separate volcanie v separate volcanic waves which apparently occurred the same period but only their way the same period but only in places found their with through the earth's places found their will be the places found the places found their will be the places found the places through the earth's crust. This description have clearly demonstrate that the ores of the country their origin from the manual at the ores of the country their origin from the manual at the origin from t their origin from the mineral charged gases emailable from the interior better from the interior below the earth's crust, filling fissures, consequent fissures, consequent on the cooling of the rocks heated by intrusion, and that the by intrusion, and that, therefore, they are of necessity primarily and essential primarily and essentially of a composite nature.

### HISTORY OF MINING IN B. C.

The discovery of the mineral resources of British umbia has been to mineral resources of British Columbia has been known for many years to hack to than what is generally supposed—and dates back the early occupation of the early occupation of Canada by the British older French occupants, being pushed out, imigrated west, crossing the P. west, crossing the Rockies, in search of new hunting and trapping feels. ing and trapping fields; they reported the using gold for ornamentation by the Indians, with whom they had come in contact when they had come in contact when they had be the state of the they had come in contact, when bartering furs. the missionaries of the Roman Church and their emissaries discovered and their emissaries disc saries discovered gold beyond the great range mountains, but their food mountains, but their finds were too far afield in thouse days to cause any avoition. days to cause any excitement. Somewhere about the same time, the Spaniards discovered gold along the coast line of B. C. the coast line of B. C. and worked the same for some time, with what result is not known, though the evidence of their workings at the same for sort ence of their workings still exist amongst the islands of the Gulf of Georgia of the Gulf of Georgia. Later again, the pioneed traders of the Hudson's B. traders of the Hudson's Bay Co., in the forties, discorred placer mines in more ered placer mines in many of the rivers of the interior and also reported the and also reported the existence of extensive deposits of lead and copper and went, in some cases, as far as sinking prospect holor sinking prospect holes. In 1856, the miners of California and Montana form ifornia and Montana, following the mineral belts in those countries in countries in the mineral belts in the miner those countries, in search of new fields for alluvial

British Co. the border, and penetrated the wilds of British Columbia, with the result of the gold excitement of the ment of the early days, in the Smilkameen, in the Big Bend of the early days, in the Smilkameen, the unprece-Bend of the early days, in the Smilkameen, in condented of the Columbia, and later, in 1864, the unprecedented gold. The old placers are dented sold rush of the Cariboo.

The old placers are the well to the cariboo.

The old placers are them at length. too well known to need our dilating on them at length. Little or the care of the Cariboo. The out place days to the Little or no thought was given in those days to the industry of the later date. industry of quartz mining, nor till a much later date. About 1875, the Dominion Government had exploring partials the Dominion Covernment had exploring partials and the partial general ing at 1875, the Dominion Government have general reports out in British Columbia making general reports. C.E., who reports out in British Columbia making states on the country. Mr. Moberley, C.E., who has resided the country. Mr. Moberley, was one of has resided of late years in Vancouver, was one of these explorers, and about 1878 discovered galena in what is what is now known as the Slocan district. In his report to the slocan district where the slocan district is now known as the slocan district. report to the Government he mentioned these, and in consequent consequence some small amount of work was done the in the some small amount of work was the Smilkameen Camp, some work was done about the same time. same time, or a few years later, on a copper ledge, but

#### DEVELOPMENT COMPANIES.

A great want is felt just now of good substantial development companies, to take hold of the many undeveloped prospects in the Province.

The average prospector is a very poor man, who cannot afford to do much of this class of work himself, and the average British Columbian did not come out here because he was overburdened with wealth and wanted a change of air, but are of the "Young-mango-west" sort, and there is not capital available here which can be put out for two or three years without being missed. To make a success, a company should obtain, at least, twelve claims to work on, and these should be chosen with the greatest care, and obtained on the lowest terms possible. I do not mean that the prospector, who has gone to considerable expense and risk, should be squeezed; but that fair valuation be made of the property, in comparison with similar ones



LITTLE BILLY, TEXADA ISLAND, B. C.

Out, and is there was no means of getting the ore out, and it was not until Joe Buchoir, staked the Le Roi Mine, in 1890, that anything but placer mining obtained any long within the past obtained any prominence, and only within the past done along that any amount of development been has a series of the development been had been development been had been development been developm done along this line, and, until four years ago, the from the mines to railroad difficulties of getting the ore from the mines to railroad communication getting the ore from the mines to smelting points, communication, and the distance to smelting points, were so grant on the distance to smelting points, Were so great, as almost to preclude their working on Now, however, the anything like a paying basis. Now, however, the Canadian Design of Cont Northern have pushed Canadian Pacific and Great Northern have pushed their line. their lines into the principal centres, and, as new ones in him and the principal centres, and permanency, erop up and show signs of value and permanency, thes are hes are being run in the province being run in. The Government ing has, within the past three years, been opening up connection with these from the individual camps connection with these from the individual Smelters are camps up connection with these from the mountains and trails to the various claims. Smelters are being and trails to the various claims. Sincrease to being erected at central points and the country is in a position to the country is a position to th losition to interest capital. The mineral resources are indubital. indubitable and almost everywhere, where man has penetrated. Those belts which are of real and permanent water. hent value and proved Those belts which are of real and permitted have now been more or less determined and proved.

which are developed in the neighborhood, and that no more cash should be paid than will compensate the man for his risks and expenditure until sufficent be done, in some degree, to prove the property. Deposits should be made to cover all engagements, and everything done to give the prospector (who is naturally of a suspicious nature, having been considerably "had" in the past) faith in the people he is dealing with, and he should be given an option to work on the property himself, when at all competent to do so, and no properties should be tied up or bonded on which it is not fully intended to do work. should not be taken hold of in one vicinity. have been many Development Companies in British Columbia, and there are still a few in existence, whose main aim and object seems to have been, either to get hold of properties on bond, at nominally very high figures, really paying only small sums for them, and float them for still larger ones on the London market or else to carry on business on the following lines:-I. To open up big and elaborate offices; 2. To gather together as many as possible of their friends and relations, who know nothing at all about mining, or

any other business connected therewith, and give them billets with big salaries attached, and to pay the prospector as much as possible for claims. 3. To get as poor prospects as they possibly could, in the most unlikely positions. 4. To do the work on them where there was least possibility of finding anything, and to do the same in the worst possible manner, and generally to carry on what is known here as "gophering," or sinking pot holes all over the surface, picking out little pockets of surface ore. 5. To throw up at once any that looked the least bit promising, and hold on to those which were no good. 6. To expend the balance of their capital in the erection of residences, and utterly inadequate plants on these properties, and then wind up their business and circulate reports that British Columbia was no good. We don't want any more of these. What we want are good, strong men with business principles, men who have money enough to allow them to put some of it aside for these uses, and to be in a position to wait for a few years for a return, and men with sense enough in them to know what they are going into, and to choose competent, experienced workmen to do the work, and capable men to look after their interests here, and who do not have to go out to sell their shares to storemen, poor clerks, and servant girls to make up their capital. In many cases good promising properties can be had on easy terms, and often the prospector will be found willing to turn over a half-interest in his property, for the sake of getting sufficent work done to Crown-grant it, holding his remaining half-interest at a moderate figure, with the option of receiving payment, either in part or as a whole, in stock. He will be generally found willing and wishing to have option to work himself, on the property, and often wanting to be paid at a valuation for work he may already have done. Such terms as these should be reasonable enough to induce some expenditure on the part of capital. But the cry "We want developed properties," for which you pay far more than you would by judicious expenditure along the lines above laid down, and by which you should, with reasonable judgment, obtain an ever increasing return for your primary expenditure. It does not require any very large amount of capital to undertake such an enterprise as this. with \$100,000 should be able to make an almost sure success, using \$75,000 for a working capital, and holding the balance in reserve. They need not employ a whole regiment of officials and clerks. One competent business man with a clerk, an engineer and assistant and a good working superintendent for each claim worked on, are all the officers required for the first couple of years until the properties are sorted down and larger gangs of men are set to work on one or more of the claims, when it would of course be necessary to have officers at such mines in order to look after the camp economies. Such few officers should be carefully chosen men of experience in this country, men who have worked in it and know it, and they should be well paid. It would cost in this way, \$13,000 to Crown-grant the properties, leaving a balance of \$62,000, say four claims might be found of the twelve which were looking promising, \$20,000 might be expended to further prove these, and a balance of \$42,000 would be left to place any such work which might have proved good, and in a fit condition for flotation of subsidiary companies.

#### NOTES FROM THE OMENICA AND PEACE RIVER COUNTRIES.

BY J. B. ROWLEY.

I have been working in the Omenica country and between there and N round between there and Nation for the last six year.

My partner and I have My partner and I have a section of land on Mile Creek, near the B. C. boundary. I left home the 17th day of March this year. the 17th day of March this year, and in my perigriphics, crosscut British Call and in my perigriphics. tions, crosscut British Columbia from the Eastern boundary on the Peace D boundary on the Peace River to the Coast, reaching Port Essington about the coast, reaching the Port Essington about the coast, reaching the coast Port Essington about the middle of October. partner and myself, during the last six years, and made on an arrange of the course made on an average \$1400 per year out of the dignings in this region. The cost of living has been about the per day. The butter of \$1 per day. The bulk of our supplies we obtained at Fort St. John and Fort E-Fort St. John and Fort Fraser, Hudson's Bay stations and were very appear and were very expensive, sugar costing us as high of 5 cents per pound and 65 cents per pound and other things mostly in proper tion.

Quite a few companies are working up there, most are very badly managed and might do much belter than they are doing than they are doing. The miners doing work on their own hook are mostly doing part of their and their own to the state of their own to the state of their own to the state of their own to their own to the state of their own to the state of their own to the state of own hook are mostly doing pretty well, averaging of the season varies a great deal according to the season of the varies a great deal according to the height at which claims are situated the law at the height at the from claims are situated, the lower ones being workable from April, whilst some bind April, whilst some higher up are not workable nearly a month later and nearly a month later and can be worked till November. The country is a good or valley The country is a good one, and in the lower vallets vegetables can be grown. vegetables can be grown; horses and cattle can winter out there. The principal out there. The principal pay area extends from Lake McLeod, on the S. R. and area extends from S. W. McLeod, on the S.E., and Stewart Lake, on the S.W. and to the Big Canyon on Finlay River, on the N.E., and Thutage Lake, on the N.W. and 100 Thutage Lake, on the N.W. is 250 miles long and 100 miles wide, consisting of miles wide, consisting of two belts of slates, in all about 40 miles in width and 40 miles in width, and a belt of granite, 10 miles in width, the latter lying belts and a belt of granite, 10 belts and width, the latter lying between the two slate belts and a series of schist a series of schist. On the McCoy Bros. bar, which is 300 feet long by 50 feet wide, values average the pan, \$4 a day. cents to the pan, \$4 a day, under favorable conditions.

On Fort St. John Bor On Fort St. John Bar, 300 feet by 100 feet, with about 12 feet of pay dirt. 12 feet of pay dirt, an average of ½ cent to the pan is obtained; the ground in obtained; the ground is easy to handle and from \$3 to \$6 a day is being made. \$6 a day is being made. In the sleugh the ground work rich but owing to a made the sleugh the ground to the ground to the sleugh the ground to the sleugh the ground to the ground very rich but owing to amount of water cannot be worked by hand. Gold is to a second water cannot be worked by hand. ed by hand. Gold is to be found in paying quantities on all the bars from the found in paying quantities of the bars from the found in paying quantities of the bars from the found in paying quantities of the bars from the found in paying quantities of the bars from the found in paying quantities of the bars from the bars f on all the bars from Fort St. John to Hudson's Hope and will average from Fort St. John to Hudson's gold is and will average from \$2 to \$8 per day; the gold generally small but on: generally small but can be saved without quicksilven being just with blankets. Several good bars are being worked between Chatter IV worked between Custs' House and Findlay yielding from \$3 to \$12 per day per man, there is lots of ground and deep wash, 20 to 20 feet. and deep wash, 20 to 30 feet.

Findlay River and Gold River are about the same as e main river—Peace of the same as Canyon the main river—Peace; from the mouth of Big Canyon gold is found on all approximately the same of the gold is found on all, every bar carying from \$1 to \$50 per day in shallow diggings per day in shallow diggings. On Ingenica River gold is not found in paving is not found in paying quantities for 15 miles from the mouth; it is very fine, but from this point values got from 1/2 cent to 5 cents are got from ½cent to 5 cents per pan, \$4 to \$10 per day the richer the wash the the richer the wash the stickier and harder it is to work.

All the paying bars are All the paying bars are, curious to say, on the north side of the river. Gold in middle to say, on the nities side of the river. Gold is not found in paying quantities around 1st North Forks and 1 around 1st North Forks as this is in the granite per nor for nearly 20 miles at a star in the granite in nor for nealy 20 miles above, at this point pay came again in slate wash again in slate wash.

The deposits of the Omenica are similar to those of genica River, but have Ingenica River, but have been worked to a greater tent; mostly the arction tent; mostly the creeks between Germansens and New thogan and the north side of the river itself have proved and the north side of the river itself have proved to be good. There are many bars that carry good come good. good to be good. There are many pars that and dead gold, but the country is full of windfalls and coarse gold, but the country is inn or the shape and dead standing timber, logs piled up in every shape for thest point I and from 3 to 10 feet high, at the farthest point I reached r 3 to 10 feet high, at the farthest fulls of wash reached I got \$6.25 out of 9 or 10 shovel fulls of wash from near to \$6.25 out of 9 or 10 shovel the size of from near bed-rock. The gold was about the size of sago climbed-rock. Sago, slightly flattened. High water and want of provisions, however, drove me out. I had a very hard time have time here, and had to kill my horse for grub, and later, even had a to kill my horse for grub, and later, even my dog to enable me to get out. There were no supplies dog to enable me to get out. Hudson's Bay supplies to be had in the country, the Hudson's Bay people had in the country, accorde working on people having run out, and the people working on Manson C. Colonel Johnson Manson Creek, would not sell me any, Colonel Johnson Wright. Wright was particularly conspicuous in this way. The same as re-

The Parsnip River is much the same as regards auriferous deposits, but the surface wash carrying values ic. deposits, but the surface wash carrying values ic. values is very shallow, only from six to twelve inches, and as a very shallow, only from six to twelve inches,

and as a rule occurs on top in the bars.

Colonel Jonhua Wright, on Manson Creek, has put in an elevator, and is vainly endeavoring to force 16-in, boulders through a 12-in, pipe. He is working on Kildare Gulch. The ground had not been tested at all and they are working utterly in the dark. shareholders need not look for a return. Right across from him, on Black Jack Gulch, Mr. Black, manager of another company, has got the best ground in the country; it will average over \$1.00 per yard. Most of their water, however, is going to waste in the ditch which, for about a mile, runs through chickenfeed gravel, and they are only getting about 60 inches in consequence and only working about 30 to 40 yards There is a sawmill just below the ditch, and plenty of timber. The property is a valuable one, and the company should most certainly construct a flume in place of their defective ditch. They are working ten men. It ought, if properly handled, to be a paying concern.



VAN ANDA SMELTER, TENADA ISLAND.

Nation river is its longest tributary, and runs in from the west, and carries much heavier gold than the Omenic stands of the west, and carries much heavier gold than the Omenic stands of the transfer of the t the West, and carries much heavier gold \$15 per day averaging from \$2 to \$10 and \$15 been have only been any ber day, on bars. The workings have only been workings have only any in surface wash (locally called skimmings), on any fille creek wash (locally called skimmings). of the creeks, as the gravel is loose and deep workings have had to be gravel in account of water, until have had to be abandoned on account of water, until Such time as pumps can be got in, or drainage tunhels time as pumps can be got in, or dramas sold is found to drain the lower levels to bedrock. Coarse Robinson, Ruby, Rold is found on the following creeks: Robinson, Ruby, Portation in the East Log. The high cost of transfer tation is Portation is a great drawback and has precluded the fing of all a great drawback and has precluded the doing of all dead work, such as deep drifting, etc. A few hydraulic companies are doing a little desultory on the St. Anthony Co., of Work on Germansens creek. The St. Anthony Co., of California California, are, however, going in extensively and are lessed to make a success. They have thoroughly the ground averaging tested to make a success. They have thoroughout their ground by drifts, the ground averaging from 30c. per yard. They are getting their water the control of from 30c. per yard. They are getting then the Germansens Lake, about 12 miles distant, and the obtain. Some dre Obtaining 5,000 miners' inches of water. Some of their ground goes as high as \$100 per yard in the paystreaks, which are pretty extensive.

The Indians have run the Chinamen out of this section of the country, as the latter were interfering with the natural state of happiness in their domestic

Decomposed shales are being worked by Charles affairs. McKinnon on Lost Creek. In one week, while I was there, he took out \$147.00; in three days, the week before, \$65,00. The creek is small, with just sufficient water for sluicing, and the gold is very coarse.

The formations I met with in coming through to the Coast were: commencing at the eastern slope of the Rocky Mountains, extensive coalfields, seams averaging from 14 ft. to 20 ft. in thickness; and from here on lime belts, lime shales, schists and gneises, slates, with granite intrusions, slates again, shales and conglomerates predominating from here on till the Coast range was encountered. I also saw several minor coal areas in Parsnip River district. There are numerous very extensive quartz veins, of great width and considerable mineral showing, in many parts of the country, but of what value these would be I am unable to tell you as I have no knowledge of quartz mining; but I have heard those who seem to know say

The B. C. Mining Exchange and Investors' Guide-Mining Tit-Bits.

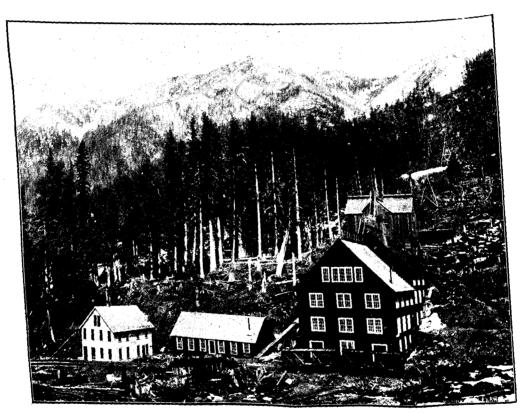


OPEN CUT AND TUNNEL, BLUE BELL MINE.

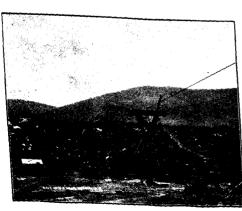
## MINING.



STOPE ON RUTH MINE,



CONCENTRATOR PLANT, NOBLE FIVE.



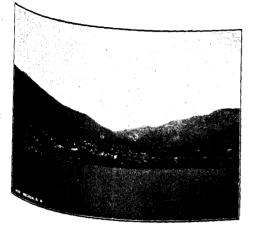
HALL MINES TRAM.



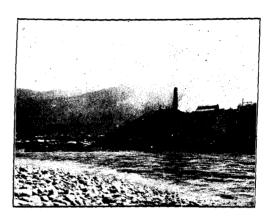
RAW-HIDING ORE FROM RECO MINE.

## The B. C. Mining Exchange and Investors' Guide-Mining Tit-Bits

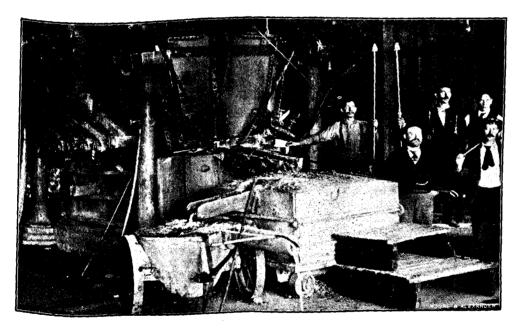
## SMELTING.



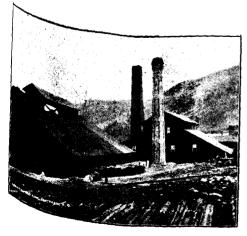
NELSON, B. C.



TRAIL, B. C.



HALL MINES SMELTER-INTERIOR.



TRAIL, REFINERY,



TRAIL, SMELTER.

that they are very valuable. One very large vein on Selwyn Mountain is now being worked by Chicago people; the values are small, about \$4 to \$8 in gold. They have taken in an extensive plant by way of Edmonton, at very much greater cost than it could have been got in for via Quesnelle and Nation River.

The country would be a very easy one to open up coast, as all the rivers are navigable for over a hunsteamers, and once in, on to Tom or Manson Creeks, waterways. The creeks are peculiarly well adapted

I left Manson Creek for the Coast about the middle of October and reached Hazleton in ten days, packing my stuff on my back, and thence by canoe to Port they were going to reduce the charges on freight to stuff in from 3c. to 2c. Packers are now taking they were charging last year and the year before.

From Hazleton to Tom Creek, the head of navigation, is 108 miles, and an excellent road can be made over the route at comparatively small cost. The grade to the summit, between 5,000 to 6,000 feet above sea level, is very gradual and hauling would be easy. It Quesnelle mouth would be 360 miles, and would also, I believe, open up a good country.

I am going back in the spring and intend making arrangements for working on a larger scale. There is a great deal of difficulty about staking claims and it is mostly left undone, owing to the great distance to be Manson.

## CHOOSING PROSPECTS FOR DEVELOPMENT.

In the choosing of prospects for development, in order to make it a success, greater care is needed than in the ordinary mine where development has been carried on and the property to some extent proved. In the latter case one has something definite to work on, and can judge approximately of the amount of ore, extent of chutes and the nature of the walls. In taking hold of a prospect one need not necessarily "buy a pig in a poke."

In the first place, particular attention should be paid to the general geological formation of the country or district in which the property is located, and whealth there, generally throughout, its veins are traceabte and extensive; then, should a good-looking traceable vein, showing signs of the outeropping of ore chutes, look for: for the exist on the property, a cause should be relation to the various formations through which it passes (should it appear to be a true fissure), and the a contact, and if in contact with volcanic rocks formation or cut the same. These points should be thoroughly investigated.

Having thus inspected the property and ascertained that it is properly staked and that the mining laws have been complied with, it will be necessary to spend some little time going over the adjoining properties in order to ascertain whether the same conditions exist there; to examine other mines in the vicinity and find out if veins, having similar conditions to that on the

property you have been examining, are proving the manent and carrying of th manent and carrying values to any extent; manufacture the generality of the nature the generality of the ore is and in what it is distributed in the it is distributed in the veins; if the conditions of the condition surface are similar to those on yours; if the conditions below, with some work below, with some work on the others, indicate signst improvement and some work on the others, indicate signst improvement and permanency, and the results provessatisfactory. Should the safety control of the safety contro satisfactory. Should these conditions exist you safely expend a little way and the results properly safely expend a little way. safely expend a little money to test that which you have examined. High money to test that which you have examined. High surface assays should be viewed to the surface assays should be stepsized to the surface assays should be viewed to the surface assays as a surface as a s suspiciously; rather look for low values with extension participation of the surface assays should be viewed traceable veins. There is a support of the surface assays should be viewed traceable veins. traceable veins. There are scarcely two camps of the first whom the matter of the first camps of the first camps whose the matter of the first camps of the first cam British Columbia where the conditions or the natural of the ore are the same of the ore are the same; and it is only after extension the continuous of the same is and it is only after extension. experience in the country that one can know the rations conditions under the country that one can know the country that country the country that countr ious conditions under which veins of real worth exit and the nature of the ones to choose.

Hitherto it has been customary for would be it tors in properties to vestors in properties to send into this country including fresh from collections and into this country in the c attached to their names, who when they came were utterly at sea. Here they came they came they at sea. were utterly at sea. Hardly a mining engineer can who into the Province and visited the Rossland Camp will and condemn it did not condemn it, yet the work there proved the from South Africa and To-day men come in condition from South Africa and other places where conditible are completely at war. are completely at variance with ours, and with the Mr. the Montana, Idaho and Colorado camps, which have similar conditions country down, because they do not understand the else pick out utterly worthless properties because they do not understand they are like those they be they because they are they because the because they because they because they because they because the because they because they because they because they because the because they because they because they because they because the because they because they because the because they because they because they because they because they because they because the are like those they have been accustomed to again, many are sent here who have, by some means or other, obtained means there who have, by some more accustomed to. or other, obtained membership of mining associations and who have no the and who have no knowledge of the merest ruding the mining. For instance, For instance, one was sent into the English and the some Cariboo by an English syndicate, to examine some placer properties them. placer properties there, who did not even know the who, when he was information in the was very down to be was sufficiently and "rim rock" an who, when he was informed that bed-rock was very deep in most cases in the way and the was red, if deep in most cases in that district, remarked, thought bed-rock thought bed-rock was were the gold was found, and surely if it is deep there are the gold was found, and in it?" surely if it is deep there ought to be all the more gold with a not dreaming the surely in it." m it." Not deep there ought to be all the more government a heavy deposit of waste.

When such men are

When such men are sent out here with authority is surely not surprising that we have failures, and that capital comes in so slowly. There are many competent mining engineers of good schools, of some years experience in British Columbia and many more is similar camps, who have now the exigencies and oditions of the various districts at their finger-end and it is only right to recommend that the advice of such should be sought before investment, more particularly when properties of a prospective nature are to be chosen.

### THE BOER CAMPAIGN.

"The Soldiers of the Queen" are attacking a quantity in the Cape which, as we anticipated, alto that has built and will maintain the glories of an Epir pire which stands unrivalled in the history of nations.

The reverses encountered will only tend to streng then our brave fellows in the determination to carry forward, to victory, the flag that has "braved a thousand years the battle and the breeze!" and which represents to humanity at large all that has made

life Worth living. The same British pluck and stolid endurance will carry the Soldiers of the Empire through A will carry the Soldiers to the bright through the chequered shade of reverses to the bright sunshine of glory and success.

Our great fault, which experience has not remedied, has been too little care in forearming against continguician too little care in forearming against ontinguician too little care in forearming against continguician too little care in forearming against continguician to any other nation gincies such as these, and which to any other nation would be of an overwheming character. The Anglo-Saxon Li Saxon history, tradition and characteristics will not, however however, admit of defeat in the cause of good govern-ment. hent. Britons have never fought but under difficulties and at a spect initial setand at Britons have never fought but under sintial set-backs great odds, hence we must expect initial set-

We have, however, the same spirit dominating our we have, however, the same spirit domining Prior to the days of David Gam, whom Henry, prior to the reconnection the prior to the battle of Agincourt, sent to reconoitre the themy the my, and on being asked concerning the number of the French. the French, answered, "An't please you my liege; there's answered, "An't please you my liege; there's enough to be killed, enough to run away and enough to be taken prisoners." The whole history of our etc. of our struggles compose a galaxy of such heroes as  $G_{am, mak}$ ; gles compose a galaxy of such heroes in Gam, which stand out the most brilliant settings in the golden. We are confident the golden circlet of British renown. We are confident that this men equal, nay, that this crisis will produce the men equal, nay, superior to the superior to Superior to the occasion. Our earnest hope being that the Home Government, will grasp the situation and decision. Government, will grasp them. God save act decisively. The Empire is with them. God save the Observation and deliver the Queen and the Soldiers of the Queen and deliver as from us from an overdose of red tape, which has proved so disastrous in the past.

### CHINAMEN IN MINES.

Agitation has been going on for some years to blain legislation has been going on 101 somethin the legislation against employment of Chinamen the continuous been contended that in the coal mines. It has always been contended that they were they were a great source of danger to others, both from ignor a great source of Within the past few from ignorance and carelessness. Within the past few houthers honths the matter has been placed before arbitraters and a very matter has been placed before arbitraters hine local rate has been placed before miners and hine local rate number of representative miners and hihe bosses were examined on the subject. The bulk of the control were examined on the subject. of the bosses were examined on the subject.

that the Chinathan wood went to show that the Chinathan wood went to show that the reverse. man was not a detrimental, but rather the reverse. it is curious to note that many of those who gave testimony to note that many of accidents caused testimony had not known of cases of accidents caused by China by Chinamen, and that they were not eareless, and these works are the second to the second the second the second the second the second that they were not earliest to these were men who had been red hot agitators to abolish the men who had been red hot agitators to abolish them. The truth of the matter is, that the miner hand. miller has himself become an employer of cheap labor and would be a miller him. No deand would not like now to do without him. No decision has not like now to do without him. The arbitraters, though to been reached as yet by the arbitraters, though the evidence is all in.

#### DAWSON, N. W. T.

THE CHIEF TOWN OF THE NORTHERN EL DORADO.

This now well-known goldfield is part of the North-West Territories, lying west of the Mackenzie the river and covers a distance of about 650 miles along the river. the river from the coast range of mountains. Hudson's Bay Company were the first to penetrate into the research for fur-hearing animals into the Yukon in their search for fur-bearing animals <sup>θ</sup>b<sub>0</sub>υτ 1840.

In 1840. the D.47 they established Fort Yukon at the mouth of the Porcupine. In 1848 Fort Selkirk was opened the incurrence in 1848 to the lewis Rivers. In the Porcupine. In 1848 Fort Seikus Rivers.

1887 an this region was or 1887 an expedition to explore this region was organised by the Canadian Government, which was entrusted to the of to the late Dr. G. M. Dawson and Wm. Ogilvie.



This work occupied some two years and covered the country adjacent to the 141st meridian of longitude, designated as the Boundary line, from Mount St. Klias to the Arctic Ocean, between Alaska and the British possessions.

The explorers found that close to the Boundary line, there existed extensive and valuable placer gold diggings, where even at that time some, three hundred miners were at work. The number of persons engaged in placer mining has increased year by year till it assumed the character of a rush in 1897-8; men from all parts of the world were attracted by the reports of the wonderful wealth of the district.

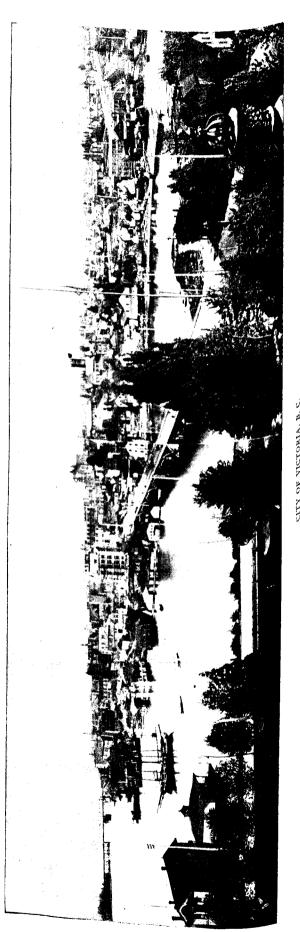
The transcontinental lines were taxed to their utmost to contend with the traffic, which a railway ratewar intensified for the time, trains leaving Montreal daily in three and four sections, so numerous were Vancouver, the terminus of the C. P. R. and the shipping and outfitting centre for the goldfields, jumped immediately from a state of stagnancy to that of extreme activity. prosperous period set in, it may be said for the Pacific Coast centres generally, and continues. Since the lasting qualities of the diggings are fairly ascertained, there is little doubt but that an era of prosperity will result, governed by the annual output of the clean-up of the diggings. In 1894, the value of the output for that season was some \$300,000, which, considering the short time the ground could have been worked and the difficulties to be overcome, was considered a

In 1898, some \$10,000,000 of the precious metal was taken out and this season it is estimated that at least double this amount was produced.

Dawson is an example of the growth a mining town. Just over two years since it was nonexistent, and now it has a population of between twenty and thirty thousand. The townsite covers an area of 160 acres, and is situated at the confluence of the Klondike and Yukon rivers. It contains three chartered banks, three newspapers, sawmills, churches, hotels and a large number of general stores, post office, telegraph

The Yukon and White Pass Railway is at present terminal at Bennet, but is pushing on during the present winter to Cariboo Crossing and Lewis River, some forty miles beyond Bennet. The company expects to have this completed and in operation during August, 1900. The developments of the past two years have broken the back of the difficulties which the pioneers had to encounter. One can jump into the corridor trains at Euston or St. Paneras for Liverpool and journey through to the diggings in luxury. Twenty-knot saloon vessels leave Vancouver every other day during the season for Skagway and thence you journey by rail to Bennet, again boarding saloon

The immense interest centered in the district today assures the value of the ground, as these associations would have been impossible had not the character of the diggings been proved, and this fact secured the connections which will result in satisfactory development during the future. We are in a position to state that some of the African magnates have secured large properties on some of the principal creeks, after thorough examination by experts, who were more than satisfied with the tests they made. Hence we may look for considerable activity in "Klondikes" on the London market in the near future.



he oldest the capital of the Province, is the sidest city, having had its origin in the krown to be city of the province, is the strong that its origin in the krown to be city of great import-Hudson's Pay fort in 1843. It has be a city of great importwith a population of between 20,000 a population of between 20,000 the 30,000, and ranks as the fourth port the Dominion. It is the seat of the shallongst the Darliament buildings the banks and the Parliament buildings anongst the handsomest in America, Shippings the handsomest in America.

An america in the state of the s his are steadily increasing. The opthing are steadily increasing. The op-The trace of the mining industries on the boloubled and interior of the Island will interior of the Island will thought and interior of the Island with the stand interior of the Island with the stand interior of the Island with the stand interior of supplies. be saily largely increase its trane, .... saling a is the centre of supplies. The scaling targety increase of supplies scaling fleet outfits here, and a large And scaling the sentre of the North Pacific Scaling fleet outfits here, and a large state in the Klondike Goldfields for the Klondike Goldfields to the It is supplied by Victoria merically the province. Esquimalt, adjoining, the headquarters of the North Pacific Control of the State of the have Province. Esquimalt, adjoining the land head quarters of the North Pacific forms of the North Pacific forms. Tound The natural beauties or conceed ment; out of the natural beauties of the na The natural beauties of the b heed mention here. THE BRITISH COLUMBIA BOARD OF TRADE,

OF TRADE, The officers for 1899 to 1900 are—McOuade, Ward, president; L. G. McQuade, president; L. G. McQuade, secretary. the ward, president; L. G. McQuaus, fulfilles, F. Elworthy, secretary, fulles, H. Kirk, S. Luser, A. G. McGuess, H. H. Kirk, S. Luser, A. G. McGuess, H. H. Kerr, didless, H. Herschell Cohen, D.R. Kerr, Davidson, C. E. Re-Javidge, C. A. Holland, C. E. Re-ka, J. Shallcross, C. F. Todd, J. G. Kiskine, Las Th. Board of Fiskine, Jas, Thompson, Board of L. T. W. Patterson, Jas, Thompson, Board of L. T. W. Patterson, J. T. W. Patterson, J. G. McCand-L. T. W. Patterson, L. G. McCand-L. T. W. Patterson, L. G. McQuade, J. Pavidge, H. M. Grahame, J. G. Cox, Javidge, C. Haywood, G. Gillespie, J. John, John, C. F. Todd. The member-like John, J. W. Patterson, John, John, John, John, John, John, John, John, J. W. Patterson, John, J. W. Patterson, Jan, John, Jo foll containes 162 names of promibusiness men.

are in recept of the Twentieth Ankeport of the Board, containing a of the Province Supplies Port of the Board, containing a find of the Eusiness of the Province be keep 1st, 1898, to June 30th, 1899, be very at length into the progress of bull year, with reward to the Mining Wear With regard to the Mining we quote the following:—

This we quote the following:—

Shines the increase in the output of in 1890, Whilst the increase in the output of almounts valued at only \$4,000 in 1890, in 1890, in 1890, in 1890, in 1890, in 1890, in 1898, in 1898 anes, valued at only \$4,000 in 109 of anounting to \$6,529,420 in 1898, is a second to the second the second to the expending to \$6,529,420 in 1890, on the contract the cont ech expressed in consequence of the outht of last pressed in consequence of the our alled. One of the conditions which this description was the price of ords f is last year being slightly una.

One of the conditions which which which which was was the price of the which which was a was the price of the conditions.

This he children in the condition.

We will be children as was the price of plant of 1897 and early in 1898. This hearing an increase in the duty on lead ge end of 1897 and early in 1898. This hering an increase in the duty on lead to get the translation where nearly bleing an increase in the duty on leaving the United States, where nearly to the duty on leaving the United States, where nearly to the determined in British Columbis to the determined owners are some mine owners. or shelf ores United States, who have deterred some mine owners on the Continuous continuous and some some of the continuous and kontreated in mined in mine owners but the continuing operations, and some ball in plated new wentures were effective inon continuing operations, and some but plated new ventures were effectively thin late in 1898, but not until too late owners to profit by the changed hilline owners to profit by the changed hillion owners to profit by the changes as a decrease result of the foregoing of the silver output of Minter of the silver output of the solution of

The previous \$312,936 compared his brevious year, here output of the copper-gold mines lost, was confined to development and here ased, whilst work on many pro-Listing out new ore bodies.

Listing out new ore bodies.

Listing should now be disturbed by a moduling the

Reput should now be disturbed by a det of the Legislature reducing the



CITY OF VANCOUVER, B. C.

time of miners working underground in metalliferous mines from 10 hours to 8 hours per day. It is too early to even forecast the ultimate result of the new regulations, but at present a most un-desirable sense of uncertainty is experienced, not only in the mining districts, but also effecting the coast supply centres.

#### VANCOUVER ISLAND.

The principal Mining Industries on the Island heretofore have been coal mining and some placer mining, considerable quantities of gold having been taken out of some of its rivers. Of late years, however, considerable quartz prospecting has ever, considerable quartz prospecting has been carried on and some properties have been opened up which are proving mines. There was a great deal of excitement some years ago when gold-bearing ledges were struck in the Alberni districts, and a good deal of development was done on a number of claims, and, although no results worthy of note have so far been obtained from that point directly, yet it led to the further prospecting of the Island, and the finding of properties of great apparent value, a number of which are now being worked, so far in many cases with good results.

The supposed rights of the E. & N. R. Co. over the minerals have prevented any systematic prospecting in the Railway belt. As a result of what little has been done, we have the Mount Sicker and Tyee Mines, near Duncans, in the Victoria district. Both these properties are turndistrict. Both these properties are turning out well and have now developed considerable good ore. The values are in copper and gold. On the West Coast a number of properties, mostly copper, have been developing this year, and in most cases the results of work done have been extensively.

been satisfactory. The great drawback to development has been the scant capital invested, and heretofore the improper management of the mines. Now, however, several good strong conpanies have taken hold of properties and some good results may be looked for.

The proximity to the water-front and the facilities of shipping directly by water from the mines-with only, in most cases, the necessity of putting down short tramways to the shore—to the smelters at Van Anda, Tacoma, or Everett, and consequent low freight charges, should induce the expenditure of considerable capital in proving these mines. With proper and systematic development there can be no doubt that they will turn out to he good paying mines,

The Coalfields of the southern half of Vancouver Island are of great dimension, extending from near Chemanius to beyond Comox, a distance of 75 miles, and average many miles in width, stretching out under the Gulf of Georgia to an extent as yet not ascertained. The belt is apparently unbroken, at least to any great extent. Several seams exist of from 3 ft. to 10 ft, in thickness. The coal is bituniuous and of good quality. These minuous and or good quarty. These fields were first prospected and worked by the Hudson's Bay Company, at Fort Nanaimo, during the fifties, and were Nanaimo, during the inties, and were purchased by the old Vancouver Coal Company in 1862. Later the new Vancouver Coal Company was formed, and now owns these mines together with a large area since acquired, in all about 30,000 acres of coal lands. Their output 30,000 acres of coar lands. Their output is over 500,000 tons yearly, and about 1,200 men are employed. The same company is working five pits, Mr. Samuel M. Robins is the manager. The Wellington Colliery is owned by Robert Dunsmuir & Sons. They were first discovered by Mr. Robert Dunsmuir, who obtained a large tract of land from the Government, north of the New Vancouver and East Wellington Colliery lands, about twenty-eight years ago. In 1891 permanent work was started and has been carried on continuously since.

The Union Colliery, originally the property of the Baynes Sound Coal Co., is now owned by the Union Colliery Company, and is situated about 12 miles from Union Bay, Baynes Sound, and about 58 miles from Nanaimo. A coal washing plant and 200 coke ovens are being operted at Union Bay, and first-class coke is being turned out. The wharf is nearly half a mile long and is provided with the latest equipments for the handling and shipping of coal. The coke is largely used in the smelters and other industries. A new shaft has been opened up and coal

MINING ON VANCOUVER ISLAND.

Wm. Brewer, a conservative authority on mining matters, relative to the west coast of Vancouver Island development during the past year, says in the "Colonist":—

Near the wharf at San Juan Harbor, and on the Gordon River, which empties into San Juan, there has probably been about \$2,000 expended in some shallow work on prospects.

At the W. W. W. a force of miners have been working since early in the Spring. About 30 tons of rich ore has been stoped down and packed 10 miles to the beach, whence it was shipped to the Tacoma smelter.

On the Golden Eagle a force of men have been working the entire year.

On the Consolidated Alberni a test run was made in the Spring under a lease, after which the mine was closed down, Considerable prospecting has been dely on Granite Creek near the W. W. group, more especially on the Golder Slipper, owned by H. S. Law and other of Alberni.

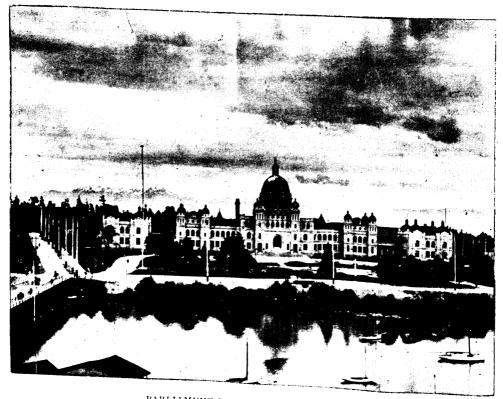
The owners of the Thistle group negline Alberni were engaged in further prospecting that property

ing that property.

Near Uchuchleset quite a little stir war made relative to the discovery of gold black sand, and several offers were made to work the same and save the values.

Around Clayoquot Sound more extensive development work bas been carried on than in any other camp on the weather coast. On Trout river the Helga Minife Company has been working a force men under contract, continuously:

The Castle group of mineral claims of Bear river, near the head of Bedwell Sound, and the New York group in same vicinity, have had forces of mental than the same vicinity, have had forces of mental than the same vicinity of the same vicinity, have had forces of the same vicinity have had forces of the same vicinity have had forces of the same vicinity and the same vicinity have had forces of the same vicinity and the same vicinity have been same vicinity of the same vicinity.



PARLIAMENT BUILDINGS, VICTORIA, B. C.

of very good quality has been got out. The company also have prospectors out searching for copper, some very fine float having been found in the vicinity of the Union Waterworks. The Union Colliery Co. have opened up new mines at Extension and Alexandra, and have put in extensive wharves and bunkers at Oyster Bay. Considerable caving occurred during the early part of the year and a portion of the town was destroyed. In many of the old workings the seams have been worked out and the workings closed down.

The yearly output of coal from Wellington is about 400,000 tons, that from Union Colliery about 300,000 tons.

A small force of men were engaged during a portion of the Summer, prospecting the Blue Bell group, near Snug Bisin, Uchuchleset Harbor.

although the test gave fairly satisfactory results.

At the Regina the owners were engaged in prospecting work for several mouths.

At the Lake Shore group, on Anderson Lake, about \$1,500 was expended in development work during the Summer, and it is proposed to resume operations shortly.

On the Hanson group, adjoining the Hayes mine, a force of men have been engaged prospecting during the Fall, and are still at work.

On Sproat Lake several mineral claims were located during the year.

A small force of men were employed prospecting a group of claims in the same vicinity owned by a Nanaimo Syndicate, and locally known as the Stark group.

A small force of men were working during a portion of the year on the Pansy Blossom mineral claim, near the new townsite of Alberni.

On the Satanita group, in the sattle camp, some development work was don't during the fall.

Prospectors have also been performing their assessment work on other claims near the Bear river, and some exploration of the upper river to a point about a miles above saft water was attempted during the summer. In that locally some rich quartz outcroppings were discovered carrying free gold, but reported as being the outcroppings of very narrow veins, the value of which is quite problematical.

On Deer creek, at the head of Tofill Inlet, the Jumbo mineral claim has been undergoing development work since March.

Assessment work has generally been done on other mineral claims on Creek.

On Tranquille Creek, which empties into Tofino Inlet, a force of men

been employed on development work on a group. a group of claims knwon as the General Oh Kenned

On Kennedy Lake the Rose Marie Mining Company has been vigorously discompany development work, and has been inequally also inequal a plant, also installed a concentrating plant, succeeded in transporting the machinery lake, and baying after a great deal of difficulty, up the rapids between salt water and the

Late in the Fall an English syndicate bonded the Jones and Kincaid property Sydney Inlet, and it is reported that Scotch

Anaconda group, in the same district.
On Quatsino Sound a San Francisco Company has been carrying on development work seams. ment work in opening up coal seams. Steaming of this coal has been tested for C.P. N. Co.. but the results were not furnished was merely from the surface material mixed with it. It was reported bank to the perfect of the perfectly satisfactory, because the coal and had considerable slate and foreign laterial mixed with it. It was reported had considerable slate and foreignaterial mixed with it. It was reported spend the fall that further work had spend in fall that further work had opened up seams carrying coal of a su-

being quality.

Not lar from the workings of these syndicate has coal tar from the workings of the been develor: Spokane syndicate has been developing some copper proposilons of trial shipment of some twelve betties during the made from these proletties during the summer.

At couring the summer.

At Seechart, or Anderson camp, near entrance, or force the entrance to Barclay Sound, a force of men have been employed nearly all the year on development work.

On Con development work.

On Copper Island, in Barclay Sound, the further land, in Barclay Sound, and develop One Copper Island, in Barclay Sound, Spent Work has been done during the

## MAINLAND COAST PROPERTIES.

At Philips Arm, the Dorothy, for some reason which we find it impossible to hill taken out mill taken out.

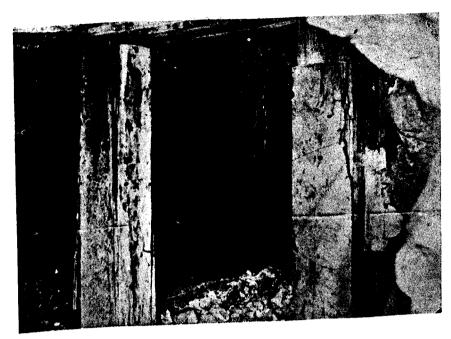
The Van Anda Company are working le Monte Company are working the Van Anda Company are working proposition. The Van Anda Company are working property. Proposition, and is a promising property. Condon, and it is expected that work be resumed in January or February.

On the Douglas Pine is being floated in will be resumed in January or February.

On the Proposition of the Property of the Development work is being carried on Arm.

Proposition (Proposition of the Cobblesdick property on Frederick Proposition of the Cobblesdick property on Frederick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of the Cobblesdick Proposition of the Cobblesdick Proposition (Proposition of th Atm. Poblesdick property on Frederick Same Properties formerly owned by the being company, on Stuart Island, are results.

Several properties have been developed Vancouver. One, apparently of great factor, has recantly been bonded for of the Inlet, near the mouth. The values ledge, right opposite Vancouver, and front, our to six miles from the water-copper and mumber of claims also on a on the inlet. About a year ago a group the control of the inlet, near the mouth. The values ledge, right opposite Vancouver, and front, our to six miles from the water-copper ledge. About a year ago a group this right of the inlet in the inlet i Several properties have been developed some copper ledge. About a year ago a group was bonded and work pushed. The bonded have been taken up and the probonded and work pushed. Including bonded and work pushed. Including berty have been taken up and the probase purchased outright. The company at also bonded other claims adjoining. The present they are erecting a new and thing At auso bonded other claims adjoining. The present they are erecting a new and application for commodious camp, and are making the construct a application for a charter to construct a point on the waterfront of Burrard Inlet. etween Lynn and Capilano Creeks, development Work is being done on a pro-from their camp can be seen at night



STATION IN SHAFT, MARBLE BAY MINE.

Texada Island has been making great progress during the year. A smelting plant has been erected at Van Anda, with a capacity of 50 tons per day. It is now proposed to increase this to 100 tons. Development is producing good results on the Copper Queen, Marble Bay, Little Billy and others in that group.

Iron ore for flux is being obtained from the Raven, in the course of development of that property. Near the latter is the Dexter group, owned by Vancouver men. This has lately been bonded to Eastern parties on a partly stock basis. On the west side of the Island the iron mines are being worked by a U. S. company.

Mr. Nowells is down from Princess Royal Island, in the Queen Charlotte group, and reports considerable developgroup, and reports conditioned development there, mostly on copper properties. of which there are about twenty. run all the way from I foot to 20 feet in width, the percentage of mineral is good wittin, the percentage of anneral is good and values high. As far as developmenhas gone the results have been very satisfactory. Work is being carried on, on some of the properties, during the winter.

The plant of the Rose Marie mine, on the west coast of Vancouver Island, is now working satisfactorily and the com-pany will ship from this on.

## THE TRANSVAAL'S WEALTH.

The following figures, taken from the London Stock Exchange Year Book show the dividends, by percentage, on the capital stock, declared by some of the mining companies operating on the Transvaal, South Africa, during the year 1898:--

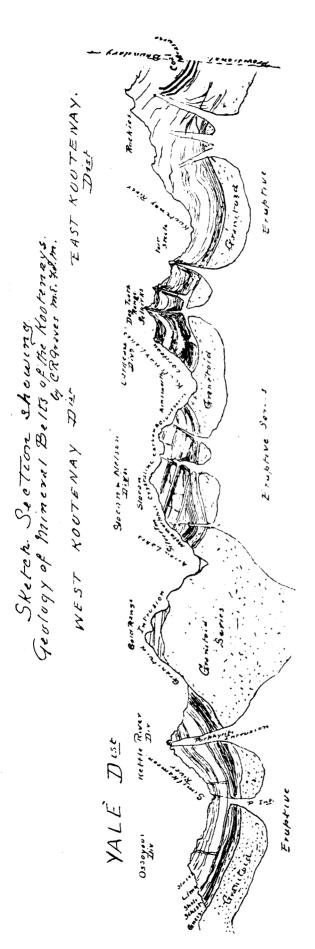
1090.	Per Cent.
Mines.	15
City and Suburban	15
May Consolidated	20
May Consolidated Windsor	22 1/2
Windsor Riefontein	25
Riefontein Drietfontein	25
Glencairn	30
Glencairn Knights	40
Knights Rose Deep	

Griesberg	40
Roodeport United	40
Roodeport United	45
Langlaate Estate	50
Angelo	50
Charter Heet	
Village Main Reef	60
Meyer and Charlton	60
Wilderposter	
Geldenhuis Deep	/3 80
Durban Roodeport	8o
Jumpers	100
Bonanza	100
Jubilee	100
Heriot	125
Henry Nourse	14714
Gelenhuis Estate	14//2
Wemmer	150
Crown Reef	240
	300
Joannesburg Pioneer	075
J ==== ===============================	

It is well, however, to state that this list does not include all of the big companies operating in the Transvaal, and which have paid profits to their owners. Some of the very largest producers are not mentioned. As for instance: the Simmer and Jack, which is, by long odds the biggest gold producer in South Africa, its output for last August having been no less then 22,460 ounces, equal in value to about \$403,680, or at the rate of about five million dollars a year.

nve million donars a year.

Besides the Simmer and Jack there are the Ferreia Deep, Glen Deep, Robinson Gold, Robinson Deep, and many others, all of which are producing from \$200,000 to \$350,000 a month in gold. Nevertheless what are mentioned above are sufficient to furnish some idea of the are sufficient to furnish some idea of the vast amount of wealth the gold mines of South Africa are adding to the wealth of the world and all of which is the result of investment of British capital. The Boers never invested a dollar in mines in South never invested a dollar in mines in South Africa, nor would there be any mines there to day if it had depended on them. Yet these same Boers have grown fat, greasy and wealthy from them through the enormous taxes they have imposed upon the mines and owners of them.



## CAPITAL AND BRITISH COLUMBIA

Many wonder on this side how it is that we full lifficult to obtain and the side how it is that we full liftings. so difficult to obtain capital to work our mines, following extracts from a letter from London, recent at our office. and write at our office, and written by the owner of very life interests in South Africa. interests in South Africa, and a man who had a go, to our certain land a man who had a man who had a go, ago, to our certain knowledge, every intention investing largely in B. Rowledge, every intention investing largely in British Columbia, throw a glimber of light on the subject. of light on the subject :-

"I note all you say about British Columbia and districts in which is the columbia and districts in which is the columbia and certain districts in which you advised Mr. he have turn his attention. I am afraid that not been able to make a great success of his company and, though I should be not sometimes of his company and the sould be not sometimes. and, though I should have been willing to put some into the concern. money into the concern, I found things in the hopeless muddle in the concern, and things in the such that the such hopeless muddle in the office here and such this such that I have incompetence on the part of the people on this that I made up mind it was the people on the part of the people on the people on the people on the people on the people of that I made up mind it was useless to sink any matter money, unless I was useless to sink any matter money, unless I was prepared to take the I have no doubt there are good things in British Columbia have made up my mind have made up my mind to keep my capital in over world world the second things in British Columbia. Africa, and don't think it wise to be all over

The gentleman alluded to in this letter is manual a company with offer the state of which is of a company with offices in Vancover, of which one time great the We are afraid one time great things were expected. that this company can only rank amongst those perlopment Companies of which we have made metallications. The mission of the missio elsewhere. The mismanagement and incompetent as much a have been as much on this side as in the Lordon thought to east. We expect should be a single further than the contract of the offices. We expect shortly to have something further to say with regard to their affairs.

### TIMBER AND COAL LANDS IN STATE OF WASHINGTON.

There is a good demand for Coal and Timber land; the neighboring State - W. in the neighboring State of Washington. One fifth of a tract of coal lands in the state of the s a tract of coal lands in the southern portion of the state was recently sold for # state was recently sold for \$40,000.00, the remaining four-fifths are held for The coal bituminous, of a high grade, and is available for Spiral Portland, Southern and Taylor and Spiral Sp four-fifths are held for a higher figure. Portland, Southern and Eastern Oregon and from a markets. Francisco markets. The lands are thirty miles and value from a railroad, which tends are thirty miles and of the property, or any tends to show the great have of the property, or such high prices would not been paid for it. been paid for it. Other sales are contemplated minous coal of a superior of Tacoma, also him minous coal of a superior of the sales are contemplated minous coal of a superior of the sales are contemplated minous coal of a superior of the sales are contemplated to the sales ar minous coal of a superior quality and fully equal to the coal of Vancouver Island. The coal will supply the Puget Sound steer Island. The coal will supply the Puget Sound steer Island. the Puget Sound steamship demand also the railfold and California markets. The duty on British Columbia coal is 67c. per ton which is a few when bia coal is 67c. per ton, which is inself a profit when competing with the B. C. product.

The Northern Pacific R. R. Co. has sold the timber Minner on 1,000,000 acres of Washington lands to a Minute apolis firm for \$6,000,000.

Major Halder has left Vancouver for London. Mr. M. Marks, superintendent of the Grand Forks of Bonanza Co., Ltd., has left for St. Johns, N. B., on nature.

Rambler Cariboo has declared another dividend of the per cent. per share one per cent. per share, payable Jan. 1st, 1900. is said to be ore in sight for three years operations.

## The B.C. Mining Exchange and Investor's Guide.

is published monthly as a Guide to Investors generally, to whose interests it devotes itself.

devotes itself.

\*\*Editor\*\* T. R. HARDIMAN.

CORRESPONDENTS.—All correspondence should be be litter, B. C. Minimus addressed to the Editor, B. C. Mining Exchange, and any correspondents described in dents desiring advice or information in telerance in reply reference to investments, we will reply annual control of charge, provided they are annual Subscribers.

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Action of the Ac

Abyertising Rates on application to Business Rates on application to Business Manager, 612 Cordova Street, Vancouver, B. C.

## A Merry Christmas and a Happy New Year.

## A SUCCESSFUL COMPANY.

Grand Forks of Bonanza, Limited, will is the no further stock under 50 cents per stockhold. Mockholders, and is an exemplification of what a local what a local company can do when con-flucted in a capable manner.

The Gold Fields of British Columbia, re, on the are, on the other hand, an example of the halagement of a London company (one done so unfortunately) which have done so very much to damage British Columbia as a field for investment, by columbia as a field for investment, by infortunate selection. The B. C. Review that to be in difficulties." Though for the matter that the properties of the control of the properties of the control of the properties of the prope that to be in difficulties." Though for company has never been entirely free mothers are sense of some sort or though a fine and the measurements of some sort or though a fine pounds "in gophering," or hing suspended." The directors, recognished, in odoubt, "that they comfold him on wrong lines and, as the history, no doubt, "that they com-cold Felds of B. C. give no sign, this highled failure has done much harm to nining in British Columbia.

## From the Camps.

GREENWOOD.

Replace the following, from Mr. Jay Graves, of the Granby Consolidated Forks and Smelting Co., Ltd., of Grand that I and Phænix, B. C.: "The mines the Old Ironsides, Knob Hill, The Victoria, Phænix, Ætna, Gray Eagle, and Forla, Phoenix, Ætna, Gray Eagle, and (amp. of July, all located in Greenwood camp, the town of Phænix being located in White's on a part of these claims. In White's hilles, south of Greenwood about six tamp. Part of these claims.

miles, south of Greenwood about six interests, now called Central camp. we are and Montreal. We have compressor hoists in operation in these two camps, properties and necessary machinery, and the left to the compression of the compression in these two camps, properties are being worked. Our smeller, to treat the ores from these mines, is ler to treat the ores from these mines, is being located at Grand Forks and should operation by the first of March.

#### CARIBOO PLACERS.

The Cariboo Hydraulic Co. have this year been benching off again, thence they have been washing down to the sluices over gravel, consequently only a portion of the gold reaching the sluices, the balor the gold reaching the states, the bar-ance being held back in the gravels inter-vening. When they commence to work wening. When they confinence to work off to bedrock a great increase in their output may confidently be looked for output may confidently be looked for the year, as far as can be Output may connectely be looked for.
The output for the year, as far as can be ascertained, is \$110,000.00.

The Combledick dredge is not yet constructed, Mr. Satchell Clarke, who came structed, 201. Oatener Clarke, who came here from New Zealand to construct the same, has gone to the United States to take charge of the dredging properties there. It is reported that his connection with the Cobbledick Syndicate has been severed.

The Horsefly Gold Mining Co. (Ward's) an hydraulic elevator proposition, a Miller & Evans elevator proposition, a Miller & Evans elevator being used. Gravel raised 40 feet. Ground very rich in places. Output this year \$80,000; very promising property.

Miocene Company, Senator Campbell, manager, has a 5 x 15 foot triple compartment shaft down 475 feet in an eld channel, 1,000 feet wide or more. The shaft has been carrying a little fine gold all the way down. Mr. Campbell hopes to strike good pay at the bottom and he thinks he is near the bottom now. Much interest is manifested in the property and good work is being done.

#### GOLDEN NOTES.

Several important mining transactions have taken place in this district within

the last few months.

The Certainty Gold and Mining Company, Ltd., took up their option for \$8000 cash on the Porphyry and Iron Hill Mine on Canyon Creek and development Mine on Canyon Creek and development work had been actively pushed on for over a month prior to taking up the option. The result of this work was to develop a pay-chute of shipping ore, four feet in width. The new owners have 300 tons of shipping ore blocked out and have built a road ten miles in length from Golden to the mine, by means of which it is intended to ship ore from this which it is intended to sinp ore from this property during the winter months, an arrangement having been made with the Hall Mines Smelter for the treatment of

the ore.
The Certainty Company have also a winter camp at work on their property on 15 Mile Creek where the results of the season's development have been very

A sensation was recently created at Windermere by the discovery of a large satisfactory body of sand carbonate ore on Spring Creek, a tributary of Horse-Thief Creek. W. G. Mitchell-Innes manager of the new Golden British Columbia, examined the property with the result that his examination and the assays were very satisammation and the assays were very satisfactory. An option was arranged with Mr. A. C. Mitchell-Innes, of Cornhill, London, for the large sum of \$150,000. The development work is being pushed on and if entirfactory Mr. Mitchell-Innes on, and if satisfactory Mr. Mitchell-Innes is confident of being able to handle this property to advantage on the London

Mr. E. F. de Varennes, managing direcmarket. Mr. E. F. de Varennes, managing director of the Certainty Company, took an option for \$30,000 on a copper property on Vermont Creek, and if the examination and reports are satisfactory, arrangements have been made to take up the ments have been made to take up the option.

E. A. HAGGEN, M.E.

#### ANTIMONY.

Many valuable discoveries of antimony have been made between Ashcroft and Lytton. The ore is stibulte, averaging in many cases 50 per cent antimony From all accounts there would seem to be a warranty, with some further development for the installation of a reduction plant in British Columbia. Other districts contain large amounts of the mineral also, contain large amounts of the mineral also, as for instance, the East Kootenay. There is at present, as far as we can ascertain, only one antimony reduction company working on the continent, viz., The Chapman Smelting Works, with branches in New York and San Francisco.

#### ROSSLAND.

Work has been commenced on the Paris Belle. The claim is well within the city limits at the east end.

The output reached high-water mark last week, over 6,000 tons having been sent down to the smelters during the past seven days.

Appended is the detailed statement, approximately, of the camp's output for the week ending November 4th, and the year to date :-

ear to date.	Week.	Year.
Mine	_	76,680
Le Roi	2,336	70,000
War Eagle	2,550	51,788
War ragic	270	4.551
Iron Mask		1,088
Evening Star		18
Deer Park	930	1,362
Centre Star		111
Columbia-Kootenay	20	100
Virginia		20
Mountain Trail		50
IXL		20
Coxey		
Total	6,106	135,788

#### BRIDGE RIVER AND LILLOOET DISTRICTS.

T. Ward, is taking in a ten Mr. R. 1. Ward, is taking in a ten Stamp Mill on the Lorne Croup, in Bridge River District. This is a free milling property on which considerable development work has been done, which so far has gone to prove the permanent free milling nature of the rock and also an increase of values with depth. An arastra has been working on the property and the last clean up for ten days was \$8000. The Brett Bros. have also been working on McGilveray Creek with similar results. We understand that Mr. R. T. Ward is putting in the mill for a one-third interest in the the min for a one-third interest in the property. Several other properties are reported as showing up well, as far as work goes. The great drawback to the district goes. The great drawback to the district is the want of proper roads, and a petition is being made to the government in this respect. We hope Colonel Rives will be successful in his working of the Golden Cache property with cyanide treatment, it certainly will considerably help the district should he do so.

The Bend d'Or is turning out well, and at a recent meeting of the Company, the following statements were made public:

To cost of mining, from Aug. 23rd., to Oct. 31st, inclusive; \$2843.50; To cost of milling 1082 tons, and expenses in mill, milling 1082 tons, and expenses in mill, from Aug. 23rd. to Oct. 31st, inclusive, \$1326.00; Powder, fuse, caps, etc., \$170.00 Estimate of charcoal used, in time, @ 9.2 bus. per diem, \$34.00; Balance profits for term ending Oct. 31st, \$16,868.00. Total. \$21,241.78. By proceeds of clean-up, Sept. 6th. \$6,358.00; Oct. 5th. \$7,692.40; Oct. 30th. \$7,191.38; Total. \$21,241.78. This speaks

November. Ten stamps, twenty-four days and thirty-five minutes, 455 tons, 277.83 oz. gold. This was the trial of a 27/33, 02. goal. This was the that of a new vein struck on Oct. 30th, average \$10 der ton. The vein is double the width of that originally worked on.

#### ATHABASCA GOLD MINING COM-PANY, LTD.

The secretary has forwarded to us the particulars of the November mill run, as follows :-

Number of days run 29 and 3 hours. Tons crushed, 378. Value of bullion recovered .....\$9,203 03 Gross value of concentrates ..... 2,385 25

\$11,588 28

Value of bullion recovered per ton of ore crushed..... Gross value of concentrates per 25 72 ton of ore crushed..... Total values recovered per ton of 6 00 ore crushed ..... 29 86

E. NELSON FELL, Manager.

Slocan shipments over the Kaslo and Slocan Railway for November were—544,220 lbs. of silver-lead, valued at \$18,561, exported from Kaslo.

#### KLONDIKE.

Mr. Williams, owner of 35 Hunker Creek, below Discovery, informs us that he is working his Hunker Creek property very successfully. He has taken out as high as 95 oz. per day, 30 oz. being the lowest. Major Laing, in company with other experts, panned out during a day on 35 an average of \$1.95 per dish, of course this was on the paystreak. Mr. Williams has bought some residental williams has bought some residental property in Vancouver and returns to the Klondike in the spring. He has the highest opinion of the diggings and thinks that when machines are more generally used the output will be enormously increased. In the past men have gone in inadequately supplied with cash and have thus handicapped results, and in numbers of instances men totally unsuited to conditions there, both as regards physique and character—the "ne'er-do-wells" of all countries—consequently these men have found their level and the district is benefitted by their absence. Men willing to make themselves useful there are always in demand at from a dollar per hour. These men generally have brains, which they apply to the benefit of themselves and to the country. These are the factors that are wanted in the Yukon and they do well-better, in fact, than elsewhere.

#### -:0:--Finance.

LONDON, Dec., 1899

A most important new company was floated here last month under the name of the Egyptian Salt and Soda Co., Limited. It is a creation of Chadwick & Co., and is a result of the conquest of the dervishes, a conquest which has opened a wonderful territory to British commercial enterprise. The new issue acquires most or all of the salt and soda producing agencies in

Egypt, and has a capital of \$1,50,0000. It will greatly extend and develop the industry, and has been received with enthusiasm by home investors.

The largest recently limited liability issue is R. White & Sons, Ltd., the famous manufacturer of summer and winter non-intoxicating beverages. Besides turning out the well-known lemonade, ginger beer, etc. Whites make a large kops ale, Hop ale, etc., which have a very wide sale amongst the working and lower middle classes. The profits for last year were \$555,745. The capital of the new company is four million dollars. This firm has been and is a most gigantic advertiser, and it has found publicity pay even in a trade with new and peculiar

Numerous other new issues are out, and altogether the promoting world is as busy as it enjoys being. For a long time busy as it enjoys being. For a long time there has been a depression in connection with the flotation of new joint stock enterprises, but the war amongst others of its curious results seems to have set things moving briskly and prosperously. No doubt a lot lies in the enthusiasm and confidence evoked by the determined "hands off everybody" sort of expression about the Government's action.

Canadian Pacific is practically unchanged, closing to-day at the same figure as last week, namely 95. The fluctuations in the stock have been very narrow, and a most unusual occurrence was the absence yesterday of the stock from the list of sales, not one transaction having taken place during the day.

C. P. R. net profits for October were announced yesterday, and show an increase as compared with the same month the net profits for the ten months of this year of \$155,170. The increase in the net profits for the ten months of this year to the end of October is \$1,456,196, or at the rate of over 2½ per cent. per annum on the common stock more than was earned last year.

Trade is booming in spite of the war. As compared with October of last year As compared with October of last year our exports show an increase of 17 per cent., and imports 14½ per cent. Of course, the South African trade is contracted, but everywhere else there is

Banking business is evidently flourishing, and the policy of expansion is being pushed on all sides. The London City and Midland Bank is opening four or five more local branches, and the London and South Western is following suit; another example of banking prosperity is Lloyd's Bank, Limited. In 1889 it held 82½ million dollars of the public money; to-day it holds over 206 millions. Lloyds is one of the oldest banks existing. dates right back to one Humphrey Stocks, who, in 1677, occupied a shop in Lombard street, made plate for Samuel Pepys. and handed down his sign, a black horse, to the bank. A curious point is that just where one of the bank's entrances now stands stood old Edward Lloyds' coffee house, from whence sprang Lloyds

An interesting marginal note to the the Transvaal war is in connection with the rise in the shares of the connection with the rise in the shares of the connection with the rise in the shares of the connection with the rise in the shares of the connection with the rise in the shares of the connection with the rise in the shares of the connection with the rise in the shares of the connection with the rise in the shares of the rise in the rise in the rise in the rise in the shares of the rise in the shares of the land companies located over the rise in the shares of the land companies located over the Vaal. For example, Oceanas have risen within a couple weeks from par to over 134. These are that some years ago ran at last up shares that some years ago ran at last up to 27 before the boom broke—this proto 28 before the consequent upon a madical that got round that the Ocean Company's land covered three or four new Rands.

The principal public flotation in the don during the past week has been Ltd. Colt Gun and Carriage Company, The Lancashire Line Control of the Company of the Carriage Company of the Carria The Lancashire Finance Company, are putting this posterior putting this particularly up-to-date cern on the market cern on the market, and the proper capital is \$2,500,000 in \$5 shares. object of the issue is to purchase work fifty-two patents covering the of the Colt automatic cruz in Forone, and also it is to be considered to the colt automatic cruz in Forone, and also it is to be considered to the colt automatic cruz in Forone, and also it is to be collected to the colt automatic cruz in Forone, and also it is to be collected to the coll of the Colt automatic gun in Europe, also the use of the Barl of Europe, and the Europe also the use of the Earl of Dundonald's gun and amount gun and ammunition carriage. Sir kep mour Blane and Admiral Leicester with pel are on the directorate, and bring the them a guarantee of the efficiency of the articles patented. The United States used the Colt gun on Spain, and England is to use it accounts. is to use it against the Boers.

Another big venture, but this time of concerned with the peaceful paths industry, is the new of manufacture. industry, is the new combine of manufacturers of manufact facturers of machinery for washing, carding, combing, spinning and other textile purposes. Covering a large portion of the West Riding of Yorkshire, and an issue of 4 per cent. and an issue of 4 per cent. debenture stock equal to another \$600.000. North of England industries are rapidly concentrating into fewer and fewer hands. concentrating into fewer and fewer hands, especially as some especially as regards management.

The intensified trading in copper which as been the recute of a has been the result for the best part of the year now of the year now of the attempt to corner can world's supply on the attempt to corner can world's supply on the supply of the best part the year now of the attempt to corner can world's supply on the supply of the best part the year now of the best part the year now of the best part the year now of the year n world's supply on the part of American operators is the object. operators is the chief reason of the issue of on important little of on important little book on the history and territorial location of copper. Brown and C. C. Tourist and collaboration of copper. Brown and C. C. Turnbull, have collaborated in the authorship. They tell 119 orated in the authorship. They tell be that from 1801 to 1850 the price of the metal went down, ending by being about \$440 per ton for "tough" that is, Practically pure copper. ally pure copper. It had been nearly double this price when the county opened. This alteration in price been accompanied by been accompanied by a greatly accelerated production rising from nine thousand tons per year at 6. tons per year at first to twenty-nine thousand about 1850.

The second half of the century right down to 1898 witnessed a further decreased in price to just the second half of the century 118 grand in price to just the second half of the century 118 grand in price to just the second half of the century 118 grand in price to just under \$250 per ton, and an increase in production to nearly feat, hundred thousand hundred thousand tons in the last year. A temporary check to the decline price was exercised whilst the Associated Copper Smelters of Copper Smelters of Swansea were able to monopolize the monopolize the smelting. This monopolize of smelting was broken by the introduction of smelting at the hand the A. tion of smelting at the mines and the C. S. disappeared C. S. disappeared. The Secretan corner later was a failure. at cornering is only at cornering is only an embarrassing soft of success so far of success so far.

On the Stock Exchange, everything operators another boom in Rhodesians. Markets, especially the Westralian. The Mines, for instance standing at 43½, the market point reached for the past highest for instance standing at 43 ¼, the highest point reached for the past with a least levels will Witwatersrand reefs and deep levels will \$3,500,000,000.

## LONDON STOCK EXCHANGE.

#### FROM B. C. REVIEW.

A rise in the Bank rate to 6 per cent. A rise in the Bank rate to 6 per cent. Ago, but happily the present situation that rendered that crisis so memorable. Lets because trade and commerce are trade and commerce are trade. kets, because trade and commerce are employing the resources usually available allic ther direction. Certainly our met-when Rreater continues the recessary than when greater caution is necessary than stural, but the outflow of gold has been high and it is now possible that the will rates now obtainable in London war: will attes now obtainable in war attract the precious metal. The remittances from that quarter, has under the precious metal acceptances from the dependent of the present situation. denittances from that quarter, has unton, but aggravated the present situation, but if lower prices are the rule, build sophically, and American and Cansayin Railroads at least manifest great in half week. A remarkable advance in part to extensive buving by the Vangarian control of the cont In "attituore and Ohio shares is attributed by Part to extensive buying by the Vanwith interests in the Pennsylvania Com-

Chall in Le Roi is the feature of the B. ca department. Selling of these shares have been twith other London and Globe a little contraction, but this is not a would be the contraction, but this is not a would be the contraction, but this is not a would be the contraction. would we think, to which the public how mattach importance, considering seems likely to have been an accounted to the content of the content how much larger than before the output seems likely to become. The tendency the other been weak, but nearly all the other principal descriptions have been weak, but nearly all interpretations of their former figures. Hall mines have, however, been bet lakes from the lakes remain nominal.

## B. C. AND KLONDIKE QUOTATIONS.

Alaska Goldfields, 1. Allahaska Goldfields, I.

Jennett Lake and KlondikeNav. 2s. 6d.

R. C. Development Assoct. 134 C. Development Assoct. 134
C. and New Find Goldfields, 53
Development Agency Mining Developmed Agency Mining Developmed Agency Mining Developmed Agency Mining Developmed Agency Mining, I and 1/2 Mining, S. Klondike Bonanza, 1/2 Roj 5 and 1/2.

Q. Cariboo 6s. Klondike Mining, Trading, ...
Je Roj. 5 and ½.

John Fraser R. & Cariboo 6s.

McDonald's Bonanza, 1.

Queen Bess Proprietary, 1.

Velvet, Velvet, and B. C., Gen. Ex. 12s. 6d.

White, 1½ Velvet, 11/2
White Water Mines, 56
Valvon Goldfields, 1 and 1/2.
Spir Gold Mines. 1 and 7-16

#### RECENT REGISTRATIONS.

The Scots-Canadian Mining and Developing Syndicate (Glasgow).

Objects: to acquire and work a group of mineral claims in British Columbia. Capital, £15,000, in shares of £1 each.

#### --:o:-LOCAL STOCK MARKET.

1,00.12	PAR VALUE	3. PRICE
	1 00	51/2
Alberni Con	e. I 00	5 1/2
Alberni Mountain Ros	-	35
Athabasca	• •	09
Big Three.		\$1.00
a liboo Hydraune		1.05
		08
a lien Coldneius.		32 00
Owner's Nest Coal	5	111/2
Doedonelles		2 1/2
Those Park		9
Ctor		50
O ad Forks of Donain	Die U	
TT 11 Mines		10
Town Colf		8 1/2
Torse Horse		62
Tana Mask		86
Knob Hill		£63/8
To Doi	200	°05
Mineral Hill		141/2
Minnehaha		7
At auto Christon	100	8
Montreal Goldfields	1 00	15
Morrison		18
Noble Five	,, 100	03
Novelty	1 00	1 08
Old Ironsides		1 05
Downe	1 00	58
Dambler Cariboo · · ·		071/2
Dathmullett	1 00	I 25
Stocan Star	50	67
Cr Flmo	. ,	51/2
Tran Anda		05
Twintill		08
		13
Waterloo	I 00	2 55
War Eagle	1 00	4
		30
Winnipeg		•

LATEST POINTS.—Bank Rate, 6 per cent Open market rate three months bank bills, 5% per cent. Sllver, 27½d. per oz., (bar) standard. Copper, £74. per ton. Pig iron, 69s. 7d. Tin, £126. Lead, £17. 15s. Consols, 10¾. Canada. Three - and-a Half per Cent., 106. British Columbia Three per Cent. inscribed sock. Three - and-a Halt per Cent., 106. British Columbia Three per Cent., inscribed sock, 95, Canada Pacific Railway shares, 97½. Bank of British Columbia, 17½. Bank of British North America, 61. Bank of Montreal, 523. Hudson's Bay,21¼.

## LATEST FINANCIAL NOTES.

NEW YORK, Dec. 18.

Panic conditions developed on the Stock Exchange to-day, with the imperative need of money caused by the violent contraction of values. Stocks were thrown over without the slightest regard to the over without the siightest regard to the prices they would bring, and at a distressing sacrifice of values. No end to the helplessness of the situation seemed in sight, when in the last half-hour of the market some to concern the market some to concern the sight, when in the last half-hour of the market, some \$10,000,000 was offered the Stock Exchange, by the concerted action of Clearing House 'banks to force prices arbitrarily down to 6 per cent. without regard to the distracted bidding at higher rates, which was being done by without regard to the distracted bidding at higher rates, which was being done by other brokers for distressed operations. The collapse in the money rate checked the decline and drove the "bears" to cover. Before the concerted relief by the Clearing House banks, the money rate

leaped to 50. 70, 100, and, according to the official records, 125 per cent. Credible reports assert that 186 per cent. was paid for money during the day. The official record of such a transaction was lost in tho excitement.

Money on call 8 to 125 per cent. Prime mercantile paper, 5½ to 6 per cent.

#### MONTREAL, Dec. 18.

While there was nothing approaching the proportions of a panic in the stock market this morning, the lowest range of values during the year attained in London, depressed Canadian Pacific, while New York did the same for others, and many local brokers, involved in Wall St. were compelled to sacrifice some local many local brokers, involved in Wall St. were compelled to sacrifice some local stocks to make good their losses there. Montreal Street Railway dropped twenty points to290; Toronto Street Railway dropped to 102, and Royal Electric slumped 6 points, while in the mining Payne dropped to 97 cents, War Eagle to \$2.50 and Republic to 95 cents.

#### The Metal Market.

SILVER.—The market has been steady and dull, showing only small fractional changes during the week and closing at 26¾d, in London,

COPPER.—Prices remain unchanged COPPER.—Prices remain unchanged from those quoted last week. Lake copper, 18½c. Electrolytic in cakes, wirebars and ingots, 17 @ 17½c. Cathode, 16¾ @ 16¾d. Casting copper, 17c. nominal. The foreign market is still dominated by the difficulties between England and Transvaal. London is quoted, English tough, £78 15s. @ £79 5s. Best selected, £80 5s. @ £80 15s. India sheets, £83 @ £83 10s,

India sheets, £83 (a) £83 Ios,

Lead continues in good demand and no change in prices. New York being quoted at 4.55c. (a) 4.6oc. The foreign market has been irregular but the tendency is upwards. Spot is quoted at £15 I7s. (a) 161. 2s. 6d. for Spanish. and £16 5s. (a) 161. 7s. 6d. for English, while futures are at a discount of 5s. to Ios.

SPETER.-The disquieting news from the ore-fields stirred up consumers and a the ore-neids stirred up consumers and a good business has resulted at stiffening prices, New York is quoted at 5.45 @ 5.50. The foreign market is also firmer, higher good qualities being quoted at 22/. 12s. 6d. Specials 22/. 17s. 6d.

## AVERAGE PRICE OF METALS.

In New York per 100 lbs, from Janary 1st. 1899:—

uary 1st. 1899:—  Month Copper  January	Tin 22.48 24.20 23.82 24.98 25.76 25.85 29.63 31.53 32.74	Lead 4.18 4.49 4.37 4.31 4.44 4.42 4.52 4.57 4.58  4.60 4.60
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## Answers to Correspondents.

JOHNSTON, LEEDS,—Cannot advise you to put a penuy in. The basis of the proposition is entirely at variance with known facts.

Souron,-Yes; Klondike has given an impetus to Vancouver. We cannot say

that its inhabitants generally show the elements necessary to success as a mining people. They lack the enterprise which is indispensable under the conditions existing. The fact is, that, with one or two exceptions, the so-called representative business men are men of straw, carried either by eastern firms, or the banks. Hence you will understand the position and why it is that outside capital can be utilized to advantage in the right direction and in the right hands.

STOCK.—(1) The share market is limited. (2) 3-16 about.

J. WHITE, Eng.—(1) We will endeavor to let you have particulars. (2) Why not call at the London office and ascertain.

African.—(1) Some sixteen years residence in B. C. should enable us to speak with authority re the matter you refer to.
(2) You are probably correct and we can bear you out, no matter what the agency you quote avers to the contrary. (3) Yes, In England it would be decidedly actionable and heavy damages would result.

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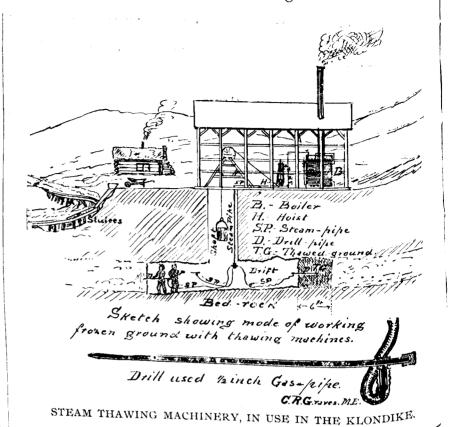
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