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Pure Gold Treasury: 5 cts.
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TRAIL, B. C.
HAS FOR SALE TOWN LOTS IN TRAIL And DEER PARK
Mining Claims for sale near Rossland, Trall and in the whole Chelambta basin.

WILL EXAMINE AND REPORI UN MINES

## MINING NOTES.

Frank Watson brought down some rich looking samples from the Arlington, showing native silver as well as galena.
A company is being formed to develop the Gladstone, which lies near the Commander.
The War Eagle company has struck a great bod; of ore in the tunnel run in from the Iron Mask ground. It is supposed to be the same ore bedy as that on the Center Star which has now been located on the War Eagle ground.
The tunnel on the Moate Cristo is in ore, and the grade is improving.

There is a very fine showing of ore on the Gopher.
It is reported that Messrs. Gooderham \& Biackstock are in London on a deal ior the property owned by the War Eagle Consolicated. It was said when they left Toronto they had gone out to sell the Gooderham Worts' distillery.
Martin King, who has just given up the management of the Columbia \& Kootenay, has in a quiet way done as much for the development of the Trail Creck camp as any man who ever came into it.
Some very fine ore has been struck in the Commander lately.

Great activity is being looked for in the Boundary country this summer. Already men are going in in shoals, which is neither-the best thing for themselves nor for the country, because the snow is too deep. for any prospecting to be done for a long time to come.
The Juliet mine is about to put in machinery. The mine is looking firstrate.
A dirift will be started immediately from the foot of the Monita shaft: The shaft is not at present in ore.".
J.F. Wardner has founded a town in East Kootenay called Wardner.
A.tunnel has bèen started on the Wolverine, belonging to the Southern Cross group.

The Le Roi has had to lay off a large part of its force as more ore was being taieen out than the railway could handle in its present snow-blocked condition: About too men were laid off.

Orphan Boy stock is a dead dog on the market, and will be until the very peculiar arrangements of the company are adjusted.
Mr. Bellinger, of the Trail smelter, writes to the press to say that he is not, and never was, a director of the Orphau Boy company.
The last report from the Victory came in yesterday. Ten inches of high-grade ore on the hanging wall and a full face of mixed ore and quartz.
The Stinley mine is affording food for gossip.' The vein matter is said to be bastard quartz-a very unsympathetic gold-bearing material.
J. $\bar{M}$. Burke returned to Rossland last night. J. M. has now the backing of one of the strongest synd:cates floated in eastern Canada, and the syndicate has the backing of J. M. Burke and some of the best undeveloped and partially developed property inethe eountry.
P. A. O'Farrell and W. Piggott are among the early birds returned to Rossland.
"W. Dunn has been wintering outside. He is bacic in Rossland and has acquired an interest in the East St. Louis, a good-looking prospect lying between the Lily May and Silver Bell.
About twenty men are camped at Barney O'Brien's ranch doing assessment work on surrounding claims.
Two remarkable specimens of ore are on exhibit in the Miner office window. One is taken from the west drift on the 500 -foot level of the Le Roi. It assays $\$ 555$ in gold The other is taken from the 300 -foot
level of the Center Star and assays $\$ 100$ gold and 20 per cent copper. The remarkable thing about these specimens is not so much their high grade as the striking difference in texture and appearance they present. Both the pyrrhotite and copper pyrites are of entirely different color and geain. But both are fit for a jewelry window and throw in the shade a fine specimen of the Victory ore which lies in the window beside them.
W. A. Campbell has acquired the Lusanna and Morning No. 7 , two claims on Lemon creek, which possess a good showing of galena which carries values in gold.
Ore and matte produced in southwest Kootenay and entered at the port of Nelson, last week, reached a total value of $\$ 185,000$. This brings the total from January 1 to March 13 to $\$ 1,800,000$, not including shipments over Nakusp \& Slocan Railway from February 1 , those being enteres at Revlstoke.
The Ramu.er \& Cariboo Cu...jan; of Slocan will pay a dividend of $\$ 30,000$ next week.
The government will be asked to assist in building a road from the foot of Slocan lake to the Arlington basin.
The demand for developed properties far exceeds the supply in Trail Creek. From all sides come letiurü -ion agents prepared to pay any price for mines. So much the better for the men who have taken the chances and made the mines.
sale of coldmbia and mootzinay grour.
The Columbia and Kootenay group has been purchased by the British Columbia Smelting and Refin--ing Company, controlled by F. A. Heinze, for $\$ 500,000$ cash. This is one of the most remarkable mining deals ever made. In the first place, until the mine was turaed over nobody knew anything about the sale. In the second place, the mine, with less than one year's active develöpment, has appreciated in value about $s, 000$ per cent. In the third place, it has not been sold at this enormous advance to castern ténderfect, or on an expert's report, to the credulous public, but to one of the hardest-headed combinations of mining men in Western America.

The mine has been a steady but small producer since the beginning of the year, shipping from fifty to mixty tons a week to the Trail smelter. It is needless to say that it is looking well. It is in fact looking better now than when the deal fras to all intents and purposes closed, over a week ago. There was oret element apparently existent in the Trail Creek camp which was exciting some distrust. The mining men who made the camp seemed to show a tendency to realize and invest elsewhere. The evidences of this supposed fact were very slim. There was the sale of the War Eagle, the optign on the Jumbo, the rumored sale of the ie Roi, coupled with the fact that the owners of these mines were not taking hold of any more property,in the Trail Creek camp. The public overlooked the fact that those mines were not being sacrificed, butsold at figures which represented an. enormous profit; and this other fact, that the men. who were selling are mining pioneers, not mining inFu:tors; that their business is opening up new dis-. tricts, not investing in already proved propertics. These is no mining camp where such men do not. give place to the investor, and. Trail Creck was merely exemplifying a naturalitaw. There are peopie who say that this is the way to make money in mining. It has not proved so in.the.past. Every great fortune made in mining has been made by men who did not sell Dut allowed themselves to be transferred by a natural process from mining man intomining investor. That is simply a matter of fact, amply demonstrated by experience. But, by way of restoring the uerve of the timid, this sale of a mine for an immense figure from an eastern company to a western compz:iy is a remarkably satisfying fcature.
All trains are blocaded on local lines, and Rossland's mail service, which in the last few months has been greatly improved, is in a demoralized condation:

IIONEST REPOHTLNG
It is impossible to doumt that the mining districts of the west have been rather injured than'helped by the injudicious and indiscriminate booming in the local press. This applies especially to the lesser camps, and in them to individual mines of minor importance. The great camps and the lig mines not only do not need, but do not seek. his sort of advertising; in fact, it is often difficult to gret reliable news about them.
The case is altogether different from that of the systematically organlzed "whooping up" of some boom camps liy means of paid advertisements and pad cditorial space, as in the notorious example of the Southern "boom towns" of five and six years ago, when the central object of the scheme was rather to sell town lots than to invite capital for serious development, for the heavy capitalists are not so likely to be influenced by this sort of shouting as are people of small means and those at a distance unable to look into things for themselves, or obtain expert advice, before investing. On the contrary, in our western camps the efforts of the local newspapers are almost invariably inspired by the mnst commendable motives, and the habit of overstating everything has become so common that nobody considers it dishonest, shice it is generally understood that a liberal discount is to be taken off all around. The trouble is that no definite standard has been as yet set up by which to measure the amount of allowance to be made. If there were some such rule one could get a fair approximation to fact by divlding every statement by, say, three, four, five, or whatever the coeefficient might be, and scaling down to one-third, one-fourth, etc., discarding the surplus as conventional embellishment. Nobody is deceived, yet the amount of information imparted is vaguely small.
Thie curious survival of the early misty days wher. "everything went" about mining is like the parallel one, on a larger scale, in which we occasionally find people who believe cestain things, because they saw them "in print." This latter order of beings is rapidly becoming extinct. .So also are those who ares likely to be taken in by distorted accounts of mines or mining districts, and those who are thus deceived are hardly the ones whose opition or backing would be of and substantial assistance to the camps or the mires boomed. On the contrary, a gepulsive" effect is tre usual outcome. The poor tenderfoot and the trusting' British "small investor" have' been slowly passing through a bitter educational course, and most of them are already pretty far advanced, while a few havé evén g̈raduated.
In the long run it paÿs to fell the truth. Misstátemenis at the öutset, or iñ any particular at any time, are bound to be exposed, and thèn a prejudice is established, even against the most meritorious proferties, which it is vèry hiàrd to overcomè. A coriservative, honest account of the actual facts, so far'as it' is possible to ascertain them, is of real value in placing matters before the outsiäe ivorld; and the only people who art likèts to iñvest' ate quite able to "size up" unreliable printed. déscriptions.-Engincering- and Miníng Joúrnal. $\qquad$

> A VISIT TO.THE VICCORY.

This is the first yearsinoe the beginning of time that any part of the Dewdney trail; mest of Rossland, has-been kept open tl rough the winter. And but for the e utheiecedented snow fall of the last two weeks there would liaye been no diffculty at all in maintainin communication sight through the season over the first divide. As it is, although the trip to the Victory mine is disagrecable on account of the heavy snow on:the:summit, it is not yet inpossible. Fortunately, ample:supplies were put in.a month ago to keep the mine running for some time, and spring must come some day. This rnine is well worth going to see, even through the snow. The amount of ore developed has to be seen to be realised. From.the entrance of the main development tunnel, now in 165 fect, to the face, nothing: but ore and quartz has been-taken out. .Not one. single hole. has been drilled in country rock. Much of this oie is low grade concentrating ore, but some of it is of shipping grade as it is broken down from the mine, and all of it mixed together and concentrated will-result in profitable working. The face - of the tunnel.looks better than it ever did before, and there is a high grade seam of ore on the hanging wall which cannot be beaten By anything in the Trail Creek district. There are about five feet of snow on the ground. At this time last year it was bare of snow ground.

## The R. J. BEALEEY CO., ..  <br> Mines, Stocks, Real Estate and Insurance <br> CONFEYANCING GENERAL AGENTS, NOTARY PUBLIC. <br> Offices at Kossland, Trail and Nelson.

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Limited Liability.

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

TREASURY
300,000 Shares.

This Company has been formed to operate the Ibex Mineral Claim, adjoining the famous Silver Bell mine.
There are three Cistinct ledges on the property, including the mann ledge of the Silver Bell.
Development work is now in active progress. Five men are employed.
First block of Treasury Stock on the Market at 6 cents.

Tunnel now in 80 feet.

THE IBEX MINING COMPANY, LIMITED.
Shaw Block
: Rossland. B. C

## FOR MAYOR Rossiand

$\therefore$ VOTE FOR C.O.LALONDE

> APPEICATION FOK LIQUEL LICENSE. NOTICE is hersby given that at the expiration of thirty days from date hereor the undersgned intends applying to the stipendiary magistrate for West Kootenay Distriet for 2 licenso to sell liquor by retal. on the premises known as Barney's ranch at Barney situated at the intersectiun of the Dewdney trail Dated this zoth day of Match, 1807 .
> B. O'BRIEN.

## THE REVIEW

## IS PUBLISHED EVERY SATURDAY.

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Arrive.
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10:30 2.m. ..............2ROSST,AND...............3:3:25 p.m.
9:00 a.m. ............................................... 5:20 p.m.
Passengers for Kettle River and Boundary Creck connect at Marcus with stage daily- $=;$.

## 

Time Table in Effect February 4, 1807.


Connection made at Trail with all steamers, both upasd down the Colnmbia river.
Fcrifceight rates äd further particulars, wittr :o
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# The Pure Gold Mining Co., Limited: 

## Capital Stock: 1,000,000.

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1.000,000 Shares,'Par Value $\$ 1.00$ Fully Paid and Non-Assessable.<br>Treasury Stjck:<br>200,000 Shares.

Mines, Christina Lake, Trail Crzek District.
OFFICERS AND TRUSTEES.

W. C. Archer,<br>President.<br>J. M. O'Toole,<br>D. D. Birks,<br>Treasurer.<br>Albert P. Hunter,<br>Secretary and Manager.<br>A. H. McKay.<br>「rustee.

The property of the company consists of three adjoining full claims, known as "Pure Gold Group," and named the "Pure Gold," "Trilby" and "Escort" mineral claims, all prior locations, with perfect titles, vzsted in the company. There is a well-definell ledge to feet wide, traceable throush the clanms for a distance of 2,000 feet. Six men are now at work on the Triby ind good assays have been obtaned. Twelve feet from the mouth of the tunnel an ass.i! of over $\operatorname{si2}$ was obtaned. Work will be carried on without cessation, and good results are confidently anticipated.

Fifty, Thousand Shares of Development Stock are now on the market at 5 cents.
Prospectus and full information will be furnished on application to

> Albert P. Hunter, Sec. and Man., Rossland, B. C.

## CAMPAIGN NOTES.

In what vital sense is R. J. Scott a citizen of Rossland? He is a man of independent fortune, built up in Galt, Ontario. His family resides there. Suppose the inines in Rossland played out sooner than we expect. It would simply be an agrecable reminiscence to Mr. Scott to relate over his pipe and becr how he had gone to Canada's first great mining camp and how the inhabitants had made him mayor of the town on the same principle as the shipwrecked sailor marries the chief's daughter and rules over the kindly nätives of some savage island.
In sympathies, training and circumstances, Mr. R. j. Scott is not a citizen of Rossland. Municipal development is a growth. Part of that growth Mr. Sentt is not, and never can be. The growth of Rn-l.aliu is a community is something to be proud an. It began with the well-ordered pioneer days, when 1 "lessness was prevenied from showing itself. It was continued during those anxious days when'a labor strike seemed imminenti;but was happily avertèd by the strong com-mon-sense and modelation of the workingmen when they organized a labur union. It now finds its just and proper expression in the incorporation of the city. But what connection has Mr. Scott' with either the businessmen, who gave Rossland. a reputation never before held by a mining camp, or with thuse mines to whom this community owes so much ?
He has none. He is simply an investor in real estate-living on rent. He enjoys a good return on his money, on which not only himself but the town is to be congratulated. But to make him mayor is an entirely different thing.

It is entirely untrue that Mr. Scott came to Rossland in answer to advertisement as follows: "Wanted -An elderly gentleman of independent means to become mayor of a western town." It never occurred to anyone except Mr. Scott himself that Rossland's first mayor would be chosen on such principles.

Rossland is no a timid spinster looking around for a man's coat and hat to hang in her hall to irighten tramps. And the offer of Scott's castoff Galt robes for the purpose is respectfully declined.
E. Hewitt did right when he declined to run as alderman. His letter of refusal showed him up in a good light. If he sticks to those sentiments he will not have to complain that everybody is down upon him. A mining camp is very quick to see when a man gets off on the wrong foot and let him know itOn the other hand, it is just as quick to forget a bad start. It is to be hoped that Rossland has the prosperity in kecping for Mr. Hewitt he has come to seek.

For a long time Mr. R. J. Scott was recognized as a side partner of Messrs. Hewitt and A. J. Smith. Ed. Hewitt and A. J. Smith, along different lines but wilh equal precision and success, made themselves dc:-

## W. A. McKrizie. W. L. Germane. <br> W. A. Crane, M. E. <br> McKENZIE \& COMPANY, MINING AND REAL ESTATE BROKERS EXPERT ACCOUNTANTS NOTARIES PUBLIC

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ROSSLAND, B. C.
perately unpopular. Mr. Scott has lately gnne back on Messrs. Hewitt and Smith:' If there is a business arrangement between them, an option on repudiation, as it were, terminable on and after the 3 rd of April, it it is a very discreditable arrangement,indeed. If there is not-well to go back on a side partner because he is unpopular and in order to secure such an honor as the mayoralty of Rossland-it something unusual in the west.

Some people have made a mistake about the slate of aldermen put forward for a nomination. The idea of running nine men for the board of aldermen for every one of whom every supporter of Lalonde for mayor would be expected to vote, was never contemplated for a moment.
Many of Lalonde's supporters were determined to vote for other men if other men ran. Many of Scott's supporters were ready to vote for some of those named. Flections are full of baseless rumors-partizan nominations. Your election partizan is ready to use any stick to beat a dog with at all times. A kindly Providence, in its inscrutable dealings, occasionally sees to it tat the best man is sure to be el c:ed.
H. S. Wallace will be one of the candidates for aldermanic honors. He will make a good member of the council, and will be elected.
The registration of voters has been shamefully dclayed and retarded.

## concernisg formations.

The following is from the summary report of the Geological Survey Departinent:
"At Rossland, the central member of the group is a fine to coarse-grained gabbro, apparently passing in a couple of places into a uralitic granite. The gab-
bros occupy an irregular-shaped area with a lcagth of about four miles and an' average width of one mile.
They extend from Deer Park mountain eastward to the western base of Lookour mountain. The :ine of junction between the gabbros and the bordering porphyrites, commencing at the northwest corner of the area, runs through the Cliff, War Eagle and Le Roi claims: then turning to the west, circles round a spur from the main area which covers part of Deer Park mountain and continues eastward in a sinuous line, passing about a quarter of a mile north of the Crown Point mine to the foot of the west slope of Lookout mountain. The northern edge of the area runs from the Cliff mine eastward to Monte Cristo mountain, then bends more to the south, and skirting the southern base of the Kootanay-Columbia mountain, continues in a southeasterly direction towards Lookout mountain. The eastern edge of the area has not been precisely defined owing to the absence of sufficient exposures. The gabbros are fringed with a varying width of augite and uralite-porphyrites, and finegrained green diabases. The passage from the porphyrites to the gabbros is nowhere sharply defined and the two rocks have apparently originated from the sime magma, but have cooled under different conditions. The gabbros and bordering porphyrites. are important from an cconomic standpoint, as most of the ore-bodies at present being worked are situated either on or close to their line of junction."
The only valuable part of this delimitation of the Trail Creek belt properly so-called is to be found in a previous paragraph.
"The distribution of the various numbers of the eruptive series is extremely irregular, and owing to the large proportion of the surface concealed by drift and forests, and the limited time at our disposal, it was found impossible in many cases to trace out junctions, except in an approximate manner.

## THE MINING REVIEW

A weekly newspaper devoted to the mining interests of Trall
Published erery Saturday at the office of The Mining Reviem,
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yearly subscription rates.
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All business communications should be addressed to A. R. Martonald d Co, Proprictors. The Mining Review, Rossland

Vol. 1.
MARCH 20, 1807.
No. 27.

## EDITORIAL NOTES.

A Stock Exchange has been a pressing necessity in Rossland for a long time past. Nothing was done towards establishing one until less than two weeks ago. What has been done was the direct outcome of an article in Tue Mining Review, which brought home to Rossland brokers that they were neglecting their own interests.
The idea that Spokane should settle the price of Rossiand stocks is absurd. Yet Spokane is today the buying and selling center. This will be remedied it the new Stock Exchange is loyally supported. A Stock Exchange will soon hammer stocks down to their market value. Whenever a stock is dealt in on 'change it can never be dealt in except there.
Toronto brokers doing a legitinate business in Rossland storks should subscribe for a seat on the Rossland Exchange and appoint good agents here to do their dealing.
The Orphan Boy has made a sweet and pleasant record for itself. The Orphan' Boy company m.aties itself participator in Mr. Whitney's actinns if it does not settle for the fraudulent certifiates issued and debts contracted by the late secretary. J. W. Haskins is a perfectly straight man and the Orphan Boy mine is by all accounts a good property.
The Nelson Miner is a newspaper which has passed through many vicissitudes. It was the first paper in Southwest Kootenay. It was started by John Houston, who sold it to D. B. Bogle, who sold it to C. P. Woolley, who traded it to W. A. Jowett, who traded it to somebody else, or part of it. It was started by a man who had the courage of his convictions, and whose convictions were nearly always right. It was then run by a man who had the courage of his convictions, but whose knowledge of the country was inadequate. Its next proprictor had the courage of his convictions, but his convictions were always wrong and has ignorance of the country colossal. Again it owned a master who had neither courage nor convictions. Now, the Nelson Miner expresses itself so foolishly upon the proposed company legislation that it is impossible to classify its opinions. It has had a terribly sad history.
Public opinior sete strongly against prize fights. There are othe• things more debasing. Fitzsimmons kept his mouth judiciously closed before the fight. It is to be hoped he will co so afterwards, also. He took punisinment like a man and never squealed. He is one of those bulldogs wino do not know when they are beaten. Just his qualities have made sur race, not his opponent's frothy genius. He is a brute, if you like. At any rate, he is a quiet, silent brute, who fought out of his class, who gave up every point of the game, whose one ambition was to get into the ring and stay there. For such brutes it is possible to feel a certain amount of modified respect.
Canada is marked out as the future great gold producer of the world. If its mineral resources as a whole be taken into acconnt, it will, in gold, silver, cipper, lead and: iron, lead the nations. And that
within a very short time. Production of what all the world needs is leaping forward. Prosperity will tollow and a rapid realization of our national dreams.
Thr Canadian Pacific Railway will build the Crow's. Nest Pass road itself. The government will thus be relicved from the necessity of solving a knotty question. The agitation has put the matter in its proper light, anyway. It is a privilege, not a service, to be allowed to build the Crow's Nest Pass'road. Not a bonus, but a payment is required. That payment need not be in money, but in protection to trade interests. Meantime, the Canadian Pacific Railway will grow more absolute, and still more absolute, until the transportation busincss of the whole Dominion is nationalised, which happy consummation the unification of monopoly in one company, will materially assist.
It isorganized mankind's most common failitg to strain at a gnat and swallow a camel. The legislature of British Columbia has for a long time been deeding over to the lieutenant-governor-in-council all its legislative functions. But it raises a dignified protest when a technical formality in connectign with the signing of a bill is neglected.
F. A. Heinee has been smelting the Columbia and Kootenay ore. He knows exactly all that is to be known about the mine, and he pays $\$ 500,000$ forit. This mine has appreciated nearly one thousand per cent. in a year. Such is mining.
In the summer of 1895 people opened their eyes in astonishment when the, Monte Cristo, Iron Horse and Enterprise were bonded for $\$ 5,000$. The best cash sale-and it was looked on as a marvel-was of the Mountain View for $\$ 7,000$. The lucky vendors were looked on as men who had made a great cleanup. The summer and fall of 1896 had some remarkable surprises in store. Prices went away up. Now, big deals are as common as blackberries. Is it not a curious and remarkable fact that Trail Creek propertics have grown steadily in favor with mining men since the beginning, and on a steady basis of meritmerit determined by most rigorous examinationcommand far higher prices than mines in any other part of the country? And this is in spite of all the croaking imbeciles from Halifax to Victoria.
Never was seen surh a March for snow. Railroads and mine trails are blocked in all directions. Mails are irregular and business suffers. liut no one minds it very much in Rossland. Rossland has now the certainty of a most wondesful summer of activity and output. We can afford to wait. But a friendly warning is in order for those who intend to come into this country to prospect and who cannot afford to wait. We may have an early, warm spring, and we may not. There is so much snow now that the hills are not likely to be clear until later than usual this year.

American railways are busy booming this country with the sole object of inducing travel over their respective lines. It matters not to them whether their passengers are people who will benefit Kootenay or not. All they look for is the fare.

## gullion from the foley mine.

Three thousand dollars' worth of bullion from the Foley mines has been received in this city by the secretary of the Foley Mines Company. This bullion is the result of the first week's run of 240 tons of ore at the mines. The bullion will be retorted and run into brick form for dispatch to New York. Mr. John F. Caldwell, the Canadian "Gold King," and proprietor of the famous Sultana, examined the result of the run and expressed the opinion that it served to the run and expressed the opinion th
establish the value of the Foley mines.
But this bullion Bas even a wider significance, for it is the trist produced by the Scine River country, and is the hrst produced by the Scine River country, and
is an indication of what that wealtiy district will do in the future.

## MARKET meport.

The feature of the week's trading, otherwise very duli, was the flurry in Deer Park, which was sold down below 18, recovered to 23 and again dropped to 391/4 and 19 $1 /$. Transactions in this stock were considerable. Commander has gained six points. Jumbo is quoted two points higher, Palo Alto half a point is now 19 and Young British America has improved
half a cent. Stocks which sell below last week's figures are Josie, Georgia and Kifonita.

| companies. | CAPITA- Lization. |  |  |
| :---: | :---: | :---: | :---: |
| Alber | 81;000,000 | 100 | t. 15 |
| Alamo | 500,000 | 1 |  |
| Butte Gold Copper | 1,000,000 | 100 | 5 |
| Biraver Chief. | 750,000 $1 ; 000,100$ | 100 100 |  |
| Brit.-Canadian Gold | 2,500,000 | 100 | 40 |
| 13. C. Gold King | 1,000,000 | $1 \infty$ | 10 |
| Bluebird | 600,000 | 100 | 10 |
| Bruce | 1,000,000 | : 00 | 10 |
| ${ }^{\text {B }}$ - Three | 3,500,000 | 10 | 15 |
| Caledonia | 500,000 |  |  |
| Californi | 2,500,000 | 100 | 18 |
| Cambrid | 1,000,000 | 100 | to8 |
| C \& C. | 500,000 500,000 | 100 100 | * |
| Celtic Quec | 750,000 | 10 | 043/2 |
| Commande | 500,000 | 100 |  |
| Crown Poin | 1,000,000 | 100 | 50 |
| Colonna. | 1,000,000 | 100 | 26 |
| Caribou | 800,000 | 100 | ${ }^{48}$ |
| Cumberland | 500,000 | 100 |  |
| Deer Park <br> Delacola | $1,000,000$ $1,000,000$ | 100 | $193 / 2$ $041 / 2$ |
| Eastern | 500,000 | 100 | 20 |
| Eric. | 1,000,000 | 100 | 4 |
| Elise | 1,000,000 | 100 | 5 |
| Finterpi | 1,000,000 | 100 | 20 |
| Eureka. | 500,000 | 100 | ${ }^{1} 05$ |
| Evening S | 1,000,000 | 100 | 13 |
| Georgia. | 1,000,000 | 100 |  |
| Gerirude | 500,000 | 100 | 81/2 |
| Good Hop | 500,000 | 100 | 8 |
| Golden Drip | 500,000 | 100 | 15 |
| Golden Quee | 1,000,000 | 100 |  |
| Great Weste | 1,000,000 | 100 100 | 16 |
| Grev Eagl | 750,000 | 100 |  |
| High Ore | 500,000 | 100 | 5 |
| Homesta | 1,000,00n | 100 | 9 |
| Hall Mzis | 2300,000 | ${ }^{\text {El }}$ | 700 $t 10$ |
| Hilltop | 1,000,000 | $\begin{array}{ll} 100 \\ 100 \end{array}$ | t 10 |
| Helen | 600,000 | 1 co |  |
| 1 mp | 1,000,000 | 100 | $53 / 2$ |
| $1 \times 1$ | 1,000,000 | 100 |  |
| Idaho | 500,000 | 100 100 | $t 20$ |
| Iron Col | 1,000,000 | 100 | t20 |
| Iron Hor | 1,000,000 | 1.00 |  |
| Ivanho | 1,000,000 | 10 | $t 10$ |
| Josie. | 700:000 | 100 | 45 |
| Jumbo | 500,000 | 100 | 57 |
| Uuliet | 1,000,000 | 100 | $t 15$ |
| Kohinoor | 1,000,000 | 100 | ${ }_{+} 10$ |
| Kootenay-Columbi | 40,000 1 | 10000 |  |
| Kootenay Lo | 1,000,000 | ${ }^{100}$ | 121/2 |
| Le Roii... | 2,500,000 | $500 \cdot$ | 50* |
| Lily May | 1,000,000 | 100 | 20 |
| Mayfow | 1,000,000 | 100 | 1335 |
| Monte C | 1,000,000 | 100 | 143/2 |
| Montezuna | 3,000,000 | 100 | t 41\% |
| Mugwump | 1,0c0,000 | 100 |  |
| Monita | 750,000 | 100 | $213 / 2$ |
| Minnesota | 1,000,000 | 100 |  |
| Morning Star | 1,000,000 | 100 | $7{ }^{1}$ |
| Northern Bell | 1,000,000 | 100 | $t 15$ |
| Noble Five Con | 1,200,000 | 100 | 60 |
| Nest Egg Firefy | 1.000,000 | 100 |  |
| Novelty | 1,000,000 | 100 | 81/3 |
| Old Ironsid | 1,000,000 | 100 | 15 |
| O. K. | 1,000,000 | 100 |  |
| Palo Alto | J,000,000 | 100 | 61/2 |
| Pure Gol | 1,000,000 | 100 |  |
| Phænix | 500,000 | 100 | $113 / 2$ |
| Poorman. | 500,000 | 100 | 5 |
| Red Mountain Vie | 1,000,000 | 100 | 12 |
| Rossland, Red Mt | 1,000,000 | 100 | 21 |
| Rambler Con | 1,000,000 | 100 | 55 |
| R. E. Lee | 2,000,000 | 100 | 15 |
| Rochester | 500,000 | $1{ }^{10}$ |  |
| Rossland S | 1,000,000 | 100 | 15 |
| St. Elino. | 1,000,000 | $1{ }^{10}$ | 10 |
| Silver Bell | 1,000,000 | 100 |  |
| Silverine. | 500,000 | 100 | 7 |
| Slocan Sitar | 500,000 | 50 | 2 5 |
| Sunshine. | 500,000 | 1000 |  |
| Trail Mining Co | 250,000 1 | 10000 |  |
| Union....... | 600,000 | 100 |  |
| Victory-Triump | 1,000,000 | 100 | $t 15$ |
| Virginia. | 500,000 | 100 | 13 |
| War Eagle | 500,000 | 1100 |  |
| Wancta and Trail ${ }^{\text {Co}}$ | 1,000,000 | 100 | 10 |
| White Bear | 500,000 | 100 |  |
| Young British Ameria | 1,000,000 | 100 | 612\% |
| Wonderful | 1,000,000 | 100 | 10 |
| Zil | 1.000,000 | 1 | 15 |

Dividend paying propertics appear in italics.
An asterisk denotes that therels no stock on the market. : denotes trezasury stock.

## Results Talk.

The management of the Canadian Gold Fields Syndicate, Limited, now have over 150 feet of underground development to their credit in the rich Sunset No. 2. From the heginning there has been no "let up" in the exploration and development of this fine property. The work is to be pushed more vigorously, if possible, until the Sunset is a regular producer of pay ore in quantity. With pay or in quantity comes increased share values and dividends. As an investment, therefore, the fully-paid, absolutely non-assessable shares of The Canadian Gold Fields Syndicate, Limited, at 10 conts per share, appeal most forcibly to $3 v e r y$ intelligent investor.

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## 

development on the groperty includes the continuance of this drift along the vein, and also further sinking on the Sunset vein and upon the Firefly vein. The vein 15 in good shape now and looks well.

## the nonte cristo mine.

Most people in this country have heard of the Monte Cristo mine, which is situated in the Cascade mountains, near Everett. It was an immense blowout of low grade galena, to make which profitable a smelter was buile. In spitc, however, of the greatest economy, the ore was too low grade to pay, and the mine was for a long time in a moribund condition. It is now stated that the lead has played out and has given place to iron, gold and copper, and that vast bodies of ore which will pay to work have been opened up.
On the railroad to Everett is situated the Silverton camp, in which some remarkable prospects haye been discovered. Ross Thompson and J. M. Burke of Rossland have some interests in that section.

Subscribers to The Minisg Review who do not receive the paper regularly will confer a favor.on the publishers by immediately notifying this office.

The Montezuma mine, in the Slocan, is now a shipper.

Fifty-seven new mining companies were gazetted a Victoria last'weck.
The Juggler group, on Carpenter mountain, near Cody, has been bonded for a Chicago syndicate by J. K. Clark.


## THE REVIEW

IS PUBLISHED EVERY SATURDAY.
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## THE MECHANICS OF MINING.

For the following paper, read by D. W. Robb, M. C. S. C. E., A. S. M. E., before the Canadian Mining Association, we are indebted to the Canadian Engineer:
The general public seem to regard mining much in the same light as a search for Captain Kidd's treasure, mysterious, difficult and uncertain, but having discovered the mine, the fortune has only to be picked up. This be'ief is, periaps, unfortunate. since it leads to the loss of moncy and faith, and tends to produce distrust of all mining ventures. Yet this gambling spirit, which seems inherent in humanity-the desire to acquire wealth with little labor, is, perhaps, not an unmixed evil, because, if all enterprise was limited to absolutely safe investment, very few mines, would be discovered. The mining engineer knowns only too well that, notwithstanding-the comparatively strong light that may be thrown upon, and even into, the bowels of the earth by geolorical, science and prospecting experience, aded by the, diamond drill, nature's secrets are so various and intricate that thore is still much chance work. The present pater will not deal with the problem of finding a marr, but with the successful operation of. it after it hats been found. While a few mining properties have been, and will be, developed which pay handsomely, in spite of bad management and crude mechanical appliances, by far the greater number of mines of all kinds depend for success or falure upon the method of operation, and even in those which will stand a certain amount of waste, there is no reason why they should not be made to pay better by good engineering. While the mining engineer should be qualified to lay out and conduct purely mining operatoons, sucn as locatoon and arrancement of pits, shafts, drainage, venulation, etc., he is not usually an expert mechanic. He may understand the general principles of steam engines, pumps, air compressors and electric machines, but his calling does not requre him to study the detals of each of the numerous forms of these machines, and he has not the constant opportunity to become famuljar with the peculiar advantages and disadivantages of each, so that he can readily choose the details of mis plant, with a clear perception of how they may be combined, to give the best results, with the highest economy in fuel, labor and repairs.
The mechanical part of mining consists in provid.ing the best and cheapest methods of drilling and removing rock or ore, transporting, screening, crushing, milling or otherwise preparing the mineral for further use; pumping, ventilating and other operations, which may be accomplished by the use of machinery. First of all comes the power necessary to drive this machinery; this must, in the present state of the mechanic's art, be obtained ether by means of steam or water power. Whether steam or water will be used must be determined by circumstances; where water power is not available, steam must be used, but in other cases there may be a choice. Where both water power and steam are available, care should be exercised in making the chuice. To the superticial observer water power misy
be attractive, because the water is free of cost, whereas fuel costs money, but it should be kept in view that the cost of building and maintaining dams and other incidental expenditures is frequently so large that the interest on capital and cost of maintemanse is equal to, or even greater in some cases, than the cost of fuel, and if the sticam of water is insufficient or irregular, steam may lave to be used to supplement it, or the interruption of work would entail heavy loss. Having decided upon the kind of power to be employed, the next question is the selection of apparatus. If water-wheels, whether they shall be of the turbine or re-action type; if steam is to be used. whether the boilers are to be water tube or some other tijpe, engines simple or compound? These are questions which should be decided by a competent and experienced mechanical engineer for cach individual case, as they are governed by the conditions, e.g., whether the head of water is to be high or low; whether one large engine or a number of smaller ones must be employed; whether the steam is to be carried a long distance or used near the boilers, and other circumsjances too numerous to mention. In small and medium-size mining operations, a mistake is often

## [Continued on pare 7.]

Wh. benwison. Ino. W. Cover. Il. e. Cover. $W^{\text {M. }} \mathrm{B}^{E N N I S O N ~ \& ~ C O . ~}$
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Title perfect.
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Steady appreciation in Cambridge Stock is a certainty.
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"CAMBRIDGE"<br>TREASURY STOCK,<br>AT 8 CENTS.

[Continued from päge 6.1]
siade inpusing severall.separate engines för hoisting, pumping, milling, etc., involving five or six cylinders to be cooled and re-heated, cansing, a great, waste of fuel, when, by a proper arrangemeut of gearing, one large engine, of the best and most economical type, cduld be made to do all the work. There is frequently an enormous waste of fuel from this cause alone.
The next point to be decided is one which is so closely allied to the previous one that it must be considered with it, viz.: that of transmission of power, . one of the most important subjects in mining, because power must in every case be used for many purposes. ardiat many places, both above, and underground. I find a tendency among mining men, and even mechanics, \}o adyocate some one form of transmission as superior to others, while the truth is that each form (direct steam preisureys compréssed air, electricity, rope driving, belt driving, shafting, etc.j has some special advantage, and is better suited to somè particular case than any other. For instance, it a mine were so situated that onfy, holsting, punping and perhaps a small amount of drilling, had to be donéa short distance from the boilers, it would. be more econotitical to use steam direct than compressed air or electricity, each .of which consumes power in the transformation by comprésó or dynamo; if so situs ated that a Cornish pump may be driven direct from the main engine, or even by $\dot{a}$ separate engine with early cut oft, and reasonable expansicn, it wiuld be much more economical'than a sféam pi p, p, tò which steam must be carried a long distance, and :ased without expansion, as is common with underground pumps.
Compressed air is admirably suited to underground working. It may be transmitted in ordinary pipes having only the average capacity required, and the pressure maintained by means of receivers at almost any distance from the supply. It may be used in, ordinary pumps, drills or other simple apparatus which are easily manageci by miners, and in use does not cause any inconvenience from discharge; on the contrary, aiding in ventilating to a small extent. On the other hand, it is attended by considerabl: loss from the accumulation of heat in compressor, and decrease of pressure by cooling. These losses may be-
overcome to some extent by compound cylinders, reheating, etc., all of which adds to the complication of the machinery, and consequent addjtional, expense and care. Electricity is pechaps the most fexible and convenient of all forms of transmission, because by a simple copper wire it may be convéyed long distances and furnish power for pumping, drilling, haulage, etc., or may be converied into light or heat. Since its: se for these purposes is comparatively new, there is much room for improvement in the apparatus, and in the presence of gas in coal miñes it may'be dangerous from sparking or.defective connections, but time will . no doubt overicóme thesé objections to $a$ : very gfeat. extent, and render its use as successful and popular for underground operations as it. bas ber.ome fors street car propulsion and other uses above ground.
Although it may be necessary or expedient in some cases to use several forms of transmission for the. sur-, face and underground.working of the same mine, there would be a great advantăge in point of economyof fuel, attendance and repairs in using one source of power, and one form of transmission for all purposes, For instance, if on or more large steam engines of the most economical type could be used to compress: air, or generate electricity for distaut or undecrground work, and hoist diréctle, thére would be a great savifigi ) of fuel over a number of small engines, pumps, compressors or dynamos, A large mine, táa gepater ex:tent than almost any other operation, presents constant opportunities for the mechanic's' skill and inventions-s and since there is always a large amount of material to be moved añ operated upon, economy is only to be obtained by performing every possible function by -mechanical means. The conditions:are so varied that the best mechanical knowledge and orignalinvention is required, and the mechanic, equally, with the mining engineer, has the power to make'success or

## failure.

The moral to the investor in mining properties is, make sure of a good mine, under the management of a capable and experienced mining engineer: and to the mining engineer, get good mechanical advice and assistance. I have nothing to say against the advice given gratis by manufacturing concerns, Which is frequently honest and valuable, if it is not entirely disinterested, but an independent mechanical engineer, who has had experience in mining operations, and who is employed directy by and for the mine, should ing the plant and in operating it. ing the plant and in operating it.

## THE COAL FIELDS ARE ENORMOUS.

The Canadian Pacific Railway is going to get no boñus from the government towards the construction of the Crow's Nest railway. That seems to be taken for granted. On the contrary, it seems to be taken for granted that some effort will be made to re-invest .the people with the valuable coal fields which the British Colúribia poltticians alienated to themselves and their fnends... Just exactly what these coal fields amountito incextent cr in value the World has hitherto becn able to tell only in a general way. We have stated that they included every variety ot coal-lignite, be thinty-two consecutive seams there were known to of thembeing thirty feet wide and thirty miles long: of them, being thirty feet wide and thirty miles long; The Telegram last night produced evidence to show That the coal fields in question are evidence to show ble andmore extensive than we had been informed. Ale andmore extensive than we had been informed. Howland in 1802 , by an expert, the Crow's Nest propHowland in! 8,92, by an expert, the Crow's Nest propAmerican. The yield of coal per square mile of terriAmericani
tory is e:itime yield of coal per square mile of terniamount it tons of coal embraced in the coal lands now contu, lied by the Canadian Pacific Railyay is nownoist incienccivable: The market for the Crow's Nest coal pronuses to be avery profitable and exten. sivt 'oneti The. Great Northern Railway will distribute large quantities of it throughout Montana. Idaho and Washington, while the Canadian Pacific Railway will chardie thy coal throughout the mining districts of British Columbia. The railways themselves will consume jmmense quadtities of it. All the smelters and sumenumense quadities of it. All the smelters and will be supplied from this source. Not only will the Warrodian. Pacific Railway soon possess all these valuable coal fields, but it will be subiect to no regulation as to the price at which it shall be carried over lation as to the price at which it shall be carried over Cox engineered between the British Columbia Southcin Ralway and the Canadian Pacific Railway, the latter corporation becomes much more monopolistic than ever. It owns all the coal fields and can dictate whatever freight rate it pleases. What is Mr. Laurier going to do about it? What course does the Globe intend to pursue? Will it advise the government to disallow the Act of $\mathbf{1 8 9 6}$, which seems to be the only loophole left the, eople for frecing themselves from the bondage of the Canadian Pacffic Railway? Or will it continue its academic dcnunciation of monopolies until the time arrives when disallowance will be impossible? Let the Globe read its anti-coal-combine articles that we reproduced the other day.-Toronto World.

## The Investing Public

Is requested to consider the following facts about the

- VICTORY=TRIUMPH Gold Mining Company

The Victory may now rank as a developed mine. The tunnel is now in 160 feet on ORE ALL TEE WAY.

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

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

The following statements about the Victory can not be challenged:

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

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

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

4 That the SURFACF CROPPING ahead of the tunnel gives every reason for supposing that within the next two months a wonderful chate of ore will be opioned up at a depth of over TWO HUNDRFD FEFT

## Treasury Stock now 15 Cents.

For full information write to the Seoretary of the Company,
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[^0]:    CRUNKS OF GOLD FROM MANITOUS.
    Mining circles in Winnipeg are said to le excited over the arrival in that city of William coulwell with samples of exceedingly rtch ore from minurg location H. P. 301 in the Manitou district, now under development by Messrs. Howard, Kirby and Black of the Prairie City.
    The property is known in the Manitou district as the Caldwell location, and was purchased by the gentlemen named in September last for $\$ 15,000$. Work was at once commenced under the superintendence of Caldwell, who is known all through the Rainy river district as one of the original discoverers of the Sultana mine, and who has been at different times superintendent of the Sultana. Regina and Empress mines."
    Ar a depth of 45 feet the ore in the main shaft began to increase in value, and at 50 . teet a body of ore was struck which for richness has probably never been equaled in any mining district on the continent. No description of it can give anyone an idea of how rich in free gold the ore really is. About fifty pounds of the ore was sacked and taken to Winnipeg for exhibition by Mr. Caldwell. Small pocket samples are numerous, showing frec gold, but when Caldwell dumped a sack of ore with pieces as large as a man's head on the floor of the Leland hotel, every one of which seemed to be a mass of free gold, the whole city went wild with excitement. It is estimated that the ore will yield $\$ 50,000$ to the ton. Arrangements have been completed for the erection of a ten-stamp mill and an air compressor and hoisting outfit, the machinery to be taken in over the ice.

    ## MACHINERY ON THE NEST ECC.

    The Nest Egg Company has its machincry installed and in fuli blast. It consists of a 60 -horse power boiler and engine, hoisting gear and a four-drill Rand compressor. Worik so far has been confined to straightening out the working shaft now down 55 feet. From the foot of this shaft a drift was run 35 feet along the hanging wall of the vein. This drift shows from 20 inches to 2 feet of shipping ore all the way in. The hanging wall is well defined and shows every evidence of being a true wall. The programme of

