

OCTOBER

ROSSLAND WEEKLY MINER.

Two Dollars a Year.

ROSSLAND, B. C., THURSDAY, OCTOBER 5, 1899.

Fourth Year, Number 82

TWO STRIKES MADE

Important Ore Deposits on the Okanagan Free Gold Mines.

FREE GOLD IN THE I. X. L. MINE

The Foreman Declares That He Picked \$1,000 Worth of Specimens Yesterday From a Shoot in the Upper Drift—The Boundary Country.

A letter was received yesterday from Mr. A. S. Edgcombe, superintendent of the Okanagan Free Gold Mines, near Osoyoos, stating that two very important strikes had been made on the property at the east and west vein. At the time of writing the entire face of the cut was in good grade. The other strike was made in the tunnel which is being run down the shaft at a depth of 50 feet to the north and south vein. At the time of writing the entire face of the tunnel was in high grade ore. This proves that the ore veins go down and that the deposits are of a permanent character. The intention is to sink on this find. In the meanwhile the ore will be stoped from point to the surface, and the ore will be milled running for several months. The management is highly gratified over the find, as this proves beyond a peradventure that the mine is permanent, and more lasting basis than ever before.

Picked \$1,000 Worth of Specimens.
Mr. Roy H. Clarke returned yesterday from the Northport smelter, where he had for the purpose of sampling the entire lot of ore sent from the I. X. L. last night. These he will assay today in order to keep a check on the smelter assays. Another shoot of very rich free gold was encountered in the upper drift of the I. X. L. yesterday. It fills up the entire face of the drift, and Foreman Watson, who is in from the mine last night, reports that it is the richest strike yet made in the mine. In proof of this he stated that he picked specimens worth at least \$1,000 yesterday and the rich shoot of ore has not yet been passed through. The face, says, fairly glistens with gold.

THE BOUNDARY COUNTRY.

Couple of Editors Give a Resume of the Situation.
Mr. W. S. Keith of the Greenwood, and Mr. E. Jacobs, of the Midway, are in the city. The former is associate for the Spokane Industrial Extension, and the latter is a delegate to the Liberal-Conservative convention which meets in New Westminster on the 5th inst. From these gentlemen the following resume of the mining situation in the Boundary Creek country was obtained:
The Boundary Creek section has received quite an impetus in consequence of the decision of the British Columbia Copper Company, limited, of New York, to proceed with the erection of a smelter near Greenwood. Work on the site has already been commenced under the direction of Mr. Paul Johnson, formerly of the Hall Mines smelter at Nelson. The smelter will be ready for operation late in the spring or early in the summer, by which time there will be a flow of ore from the adjoining mines to be in operation. The British Columbia Copper Company owns the well known Mother Lode group, situated in Deadwood within three miles of the smelter. The Mother Lode has an enormous amount of copper ore, and will furnish the supply to the smelter. The main vein of the Mother Lode is now down to a depth of 200 feet, at which depth, this vein opened up a deposit of ore containing 30 per cent in copper. The other mines in the district which are now preparing to ship are the Old Iron, the Knob Hill and the Victoria, all of which are owned by companies organized by Mr. Jay P. Graves. On this group a very large amount of development work has been done, and an enormous quantity of ore is now being shipped to the smelter. The Brooklyn and Stewin, in the Greenwood camp, which are owned by the Dominion Copper Company, will be shipped after the railway is opened.

The Winnipeg and the Golden Crown, in the Washington camp, the latter owned by a company which has its head office in Vancouver, are opening up well. The Winnipeg is now being proved to the 300-foot level, where it meets pay ore. The Golden Crown has reached a depth of 200 feet, and soon drifting north on a promising ore body will be encountered.
The Summit camp B. C. and the Oro Denoro, the latter owned by the King company of Rossland, are both doing a lot of development work. The B. C. is sinking tenders for sinking its main vein deeper than its present depth of 180 feet. When this work has been completed the working force is to be increased to about 40 men. In this mine 1,000 feet of work was done on the level and a similar amount on the level. It has already on the dump a quantity of first-class ore which, it is estimated, will run in all values about \$20 per ton. In addition to this there are a number of second class ore that will run from \$20 to \$25 to the ton. The extension of this large and distinct ore body has been proven on this mine and a large quantity of ore blocked out for extraction. The owners have been successful to ship ore for one year to the smelter, and will commence doing so as the spur line, now in course of

construction, is completed to the mine, which will be in a few weeks hence.
"The Oro Denoro is getting ready to crosscut from the bottom of the shaft, which has now reached a depth of 200 feet for the purpose of crosscutting within 200 feet from the shaft, two ledges which have already been opened up on the surface.
"The Jewel, in Long Lake camp, is another property which is developing very satisfactorily, having large quantities of gold-bearing quartz already blocked out. The plant of this mine is being added to in order to facilitate further development and it is expected that reduction appliances will be installed before very long. The mine is under the management of Mr. Gilbert Mahon, formerly of Rossland.
"The Enterprise and Anchor Mines, limited, whose claims adjoin the Jewel group, have this week decided to inaugurate a vigorous policy of development.
"There are a number of other properties, notably the City of Paris group, on which a large amount of work is being done, and altogether the district bids fair to show substantial results within the next few months. The development of so many mines the establishment of the smelters at Greenwood and Grand Forks, and the opening of the railway, which will reach Boundary Creek during the current month, are causing a large amount of activity, and are certain to produce a permanent prosperity in the district.
"The completion of the Columbia & Western railway to Midway, will it is confidently expected, cause that town to show much improvement during the coming winter, as it will be for some time to come the terminus of the railway, and consequently there will be a large amount of freighting from it to the mining camps of the main Kettle river Camp McKinney and Meyer's creek."

Work Started on a Slocan Mine.

The California & Clipper Silver-Led Mines, limited, yesterday sent a crew of nine men to the company's property on Silver mountain, near New Denver, to resume operations. A. J. Marks, managing director for the company, has given a contract to F. Hart and A. Fowler, and they took with them several other miners. Work will be continued on the property all winter. The first work to be undertaken by the contractors will be the continuing of an upraise from the tunnel run in upon the California to the surface ledge upon the Clipper ground. The present force will be increased as soon as places are found for additional men. At present there are about 400 feet of work done upon the California, and the company has a very fine showing. One shipment was made from the California last season comprising some 44 tons, which gave smelter returns of 158 ounces silver and 70 per cent lead.

The Heather Bell a Mine.

Mr. Samuel Forreath arrived in the city Monday from the Heather Bell property on Sullivan creek, which he has been developing with a force of seven men during the past six weeks. He has made a magnificent strike in the property, and he is correspondingly elated. Last evening in speaking to a representative of the Miner Mr. Forreath said: "The Heather Bell will be one of the big mines of the camp—in fact it is so now. The discovery which we have just made and exposed for such a distance justifies us in saying that it is a continuous and lasting one and enables us to make this statement beyond all peradventure. The lead is crosscut 40 feet and carries values clear across the property. The pay chute at 14 feet depth is 10 feet wide and carries values of shipping ore throughout its width. The dip of the lead is 80 (eighty) degrees and the formation is perfect, with four chutes of ore running clear to the surface. The average value of this ore is \$14 in gold and two per cent copper. The picked assays formerly taken from this property went to \$44 and \$22 in gold. All the mine needs now is to work on shipping ore, which it possesses in abundance, and it will pay for its own development and give a return to the owners. The ore can be hauled from the mine at no great expense to the railway at the mouth of Sullivan creek, where there is a spur of the railway on which it can be loaded and transported to the smelter, eight miles distant."

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Mr. Graves is still suffering from a severe cold caught early in the season, and which he finds great difficulty in getting rid of. He is as enthusiastic as ever about all the properties he and his friends are connected with. All the buildings connected with the new Granby Smelter works at Grand Forks, are well under way and will be roofed in before the snow comes. Mr. Graves said they needed men over in the Boundary country and were somewhat delayed in their building plans for this reason. Work in the mines was progressing very rapidly. Mr. Graves said, and there will be plenty of ore for the smelter when completed.
While in Rossland Mr. Graves will inspect the work in progress on the Mascot, Snowshoe, Southern Belle and the California. All the machinery for the latter has been ordered for some time and the ground is being prepared for the buildings.

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News of Mining Properties in Kootenay and Yale Districts.

BIG STRIKES IN THE BOUNDARY

Points of Interest From Ymir, the Slocan, East Kootenay, the Boundary Creek Country and Trout Lake—The Payne Shuts Down—Contract Work in Other Places.

There is little or no change in other camps in the labor situation. Men are being brought from the east and south to the Slocan country, but the managers do not appear to have been successful in getting the new comers to work. The Payne mine is closed down, but in some of the other mines contract work is in progress. Even at union wages there appears to be difficulty in obtaining competent miners and the experience extends all over South Eastern British Columbia. Appended will be found items of interest from many of the camps.

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Big Horn Assay—Ore From the Flossie K.—Fair Exhibit.
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An assay of a sample of ore from the bottom of the new shaft on the Big Horn returned \$220 in gold and almost 11 per cent in copper. This will enhance the value of the Crested Butte property.
On the Copperopolis a crosscut has been driven showing the ledge five feet wide, which assays regular and satisfactorily. The property will be worked this winter. The force will be increased as soon as places are found for additional men. At present there are about 400 feet of work done upon the California, and the company has a very fine showing. One shipment was made from the California last season comprising some 44 tons, which gave smelter returns of 158 ounces silver and 70 per cent lead.

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THE SLOCAN.

The Payne Mine Practically Closed Down—Properties Bonded—Ore Shipments.

The contract on the United Empire, Ten-Mile, has been finished.
A small force of men was put to work on the Bosun-Fidelity this week.
Five men are working on contract at the Palmita.
Six men are employed on tunnel work at the Idaho.
The Queen Bess now has 20 men on the payroll. Half the force is on surface work.
A. A. Blumenaier has bonded the Hartney group.
The Lucky Jim ships well on to a car a day of zinc ore.
The Torpedo group is having a 165-foot tunnel driven on that property.
One hundred and twenty-four tons of ore was shipped from Whitewater last week.
The buildings at the Surprise have been put in shape to withstand the snows of the coming winter.
Owing to recent developments regarding the proposed site for the Ivanhoe concentrator, the mill will not be built this year, and may not be built in Sandon at all.
Contract work has been started on the Slocan Star, being confined to the No. 5 tunnel. Four men are employed.
D. W. King has been appointed representative in Idaho and Washington for the American Refining & Smelting company, New York, with headquarters in Spokane. He will take up his abode in that city next month.
Work will be commenced in a few days on the Alice Murphy and Dooley, two claims on Silver mountain, just above New Denver.
A. R. Dockstader last week struck six inches of clean galena in an open cut on the Monarch. The Monarch is on Oody creek and was staked last fall.
The contract for the Wakefield concentrator has been let and Four-Mile is very busy in consequence. Several Sandon mechanics have been employed to work on its construction.
A five-sixths interest in the Slocan Chief No. 10 and the Kootenay Queen claims, situated on South Kaslo creek was bonded last week by Percy Dickenson of Slocan City. Acting for Senator Warner Miller and other prominent American capitalists. The bond is for \$18,000, covering one year, with 10 per cent paid down.
The Skylark and Ranger claim, near Slocan City, is, under development, proving to be the most valuable property. Both the No. 1 and 2 tunnels are being driven ahead and both have shipping ore in the face. The paystreak in this vein varies from 12 to 30 inches in width, and the ore runs from \$60 to \$80 in gold and silver. The gold value being about \$24.
The Ajax Fraction development Syndicate, London, England, capital \$20,000, local office, Sandon, Maurice Gintzberger, attorney, has been registered as an extra-provincial company.
A meeting of the shareholders of the Noble Five was held in Spokane on October 3. At this meeting a resolution authorizing the trustees to incorporate the company under the laws of British Columbia, with an equal number of shares, was introduced.
The Payne shipped 60 tons of ore via the C. P. R. this week. The Rambler-Caribou shipped 40 tons and the Red Fox 14 tons from McGuigan during the month of September. The Whitewater shipped 30 tons and the Jackson 35 tons from Whitewater last week.
Jas. Moran, Chas. Greenlee, W. Glyn and C. Faas are interested in a deal made to Mr. Percy Dickenson last week. It was on the Smuggler claim, close to the Molly Gibson on Klokane creek. The sum involved is \$10,000, with 10 per cent down, the payments coming in six and 12 months.
An option on the celebrated Blue Bell mine, opposite Ainsworth, has been secured by A. R. Browne of Kaslo, who is representing the Smelting Corporation of Manchester, England. The deal includes the works at the mine and the smelter at Pilot Bay. The high percentage of zinc in the ore prompted the deal.
As per instructions received from headquarters in Montreal, all mining operations have been suspended in the Payne mine. There were 17 miners and four men working underground, running the No. 5 tunnel east, the No. 4 tunnel east and west and driving an upraise from No. 4 to No. 3. These men were all laid off and only a few men on surface work remain at the mine. When spoken to Superintendent Hand stated that he did not know the intention of the company regarding future operations, but he gave it as his opinion that the layoff was on account of the action of the miners' union in inducing the men recently imported from Montreal to come down the hill.
The Emily Edith has commenced the erection of fine buildings at the mine for the employees. The bunkhouse proper is to be fitted up with bedrooms, drying rooms, smoking and card rooms, reading and sitting rooms. There are to be accommodations for 70 men, with wire mattresses in each bed. The messhouse is to be fitted up in good style, with quarters for the cook and help in addition to the kitchen and dining room. A third building will be occupied as an assay and general offices. Superintendent Rammelmeier will also have private quarters erected for himself and family.

RETURNED FROM THE EAST.

Richard Plewman Talks About the Eastern Markets.
Mr. Richard Plewman has returned from a flying visit to New York, Montreal and Toronto. He says these cities are becoming more and more interested in British Columbia mines and stocks. Reliable information is eagerly sought for and more especially respecting the Boundary country. Investors, however, were continually hampered by the disturbed condition of the London mining markets. Dear money, followed by heavy failures in the Chicago and New York stock exchanges had a depressing effect. Mr. Plewman was present when War Eagle sold at \$2.92 on the Montreal stock exchange. The following day, however, War Eagle sold at \$3.28 on the same exchange.

MINES AND MINING

Smelter Returns From I. X. L. Ore are Satisfactory.

ST. ELMO COMPRESSOR IS HERE

A New Mining Company Has Been Formed at Chatham, Ont., to Operate in This Section—Good News From the Jim Blaine and Other Notes.

Mr. Roy H. Clarke, in charge of the I. X. L., paid a visit to that mine yesterday to inspect the progress that has been made in the past day or two. Work on the drifts continues with satisfactory results. Upraising to the surface for the purpose of ventilating the mine is in progress. The intention is to explore for the ledge 100 feet further down the hill. When this is done and the ledge located it will give about 200 feet of back stoping ground. Mr. Clarke was asked as to the result of the recent shipments to the Northport smelter. Mr. Clarke said the assays were not public property yet and he had not received permission to give them out. It was stated on the street yesterday that the shipment would average \$60 to the ton. This, however, did not come from the management of the mine.
The St. Elmo Plant Has Arrived.
The compressor plant for the New St. Elmo company, which is operating the St. Elmo property on Red mountain, arrived at the railway depot here yesterday. The plant was ordered at the beginning of June, but owing to the press of previous orders for machinery it could not be delivered till now. The foundations and buildings at the St. Elmo are ready for the reception of the plant, and it will take about a month to install it. The plant consists of half of a 10-drill compressor, that is, it is so arranged that plant can be added to, so that the capacity can be increased from a five to a 10-drill compressor, because it is specially built so that the other half can be easily added. On the St. Elmo drifting continues and the showing of ore is encouraging.

A New Mining Company.

At Chatham, Ont., the Chatham & Ymir Consolidated Gold Mining company has been formed with a capital stock of \$1,500,000 divided into \$1 shares. The company has been formed for the purpose of acquiring and developing the Monitor group of mineral claims in the Ymir district, of Nelson division of West Kootenay, British Columbia, and the Centre Star and Trilby mineral claims on Green mountain in the Trail Creek mining division of West Kootenay. The Monitor group consists of three claims on Porto Rico mountain in the immediate neighborhood of some of the rich mines in British Columbia, notably the Porto Rico mine, which is only a short distance away on the same mountain and having the same formation. The assays taken from the surface of the ledge show values in copper, silver and gold of \$21 to the ton. The Centre Star and Trilby claim (104 acres) are about seven miles from Rossland on Green mountain, the divide between Murphy and Stony creeks, containing two distinct leads of ore, carrying values in gold and copper of from \$15 to \$40 per ton. There is one shaft on the property 21 feet in depth and in nearly solid mineral throughout. The officers and board of directors are: Robert Gray, president, Chatham; W. E. McKee, vice-president, Chatham; J. G. Kerr, secretary-treasurer, Chatham; W. H. Jackson, Roseland; H. H. Shaver, Tilbury E.; W. R. Hickey, Bothwell.

Good News From the Blaine.

The news from Republic camp as to the Jim Blaine is of an encouraging nature. The Jim Blaine has an agreement with the Republic Mining company by which it is allowed to use the 400-foot level of the Republic company to reach its ore bodies. Through this tunnel the Jim Blaine company is now operating, and its miners are now drifting on the ledge on the 400-foot level. The long tunnel of the Republic on the 600-foot level is in for a distance of 2,200 feet and should meet the ledge when it has been run to a further distance of 140 feet. When the ledge is reached in the Republic ground it will be of benefit to the Jim Blaine management, as it can sink a winze from the 400-foot level to the 600-foot level and locate its ledge at that depth. In other words the property can be thoroughly explored from the 400-foot level.

Mountain Trail Concentrator.

At a depth of 62 feet in the shaft of the Mountain Trail a showing of ore of a pay grade has been met and this class of ore continues down the shaft to the present depth, which is about 90 feet. It is now anticipated that a trial run of the Mountain Trail concentrator will be made in about 30 days.
Will Tap the Main Ledge.
The crosscut from No. 2 winze in the Iron Mask will soon, it is anticipated, cut the main ledge. This will open the mine up to a depth of 400 feet, which will be the greatest yet reached on the Iron Mask.
The Bond Will Be Taken Up.
The final payment on the Yellowstone bond falls due on Saturday next. The payment is for \$22,000 and completes a purchase price of \$50,000. The final payment is as safe as if it were in hand, as the holders of the bond attempted some time ago to discount the payment and complete the purchase.

MINES AND MINING

Progress of the Development on the Deer Park Property.

THE OUTLOOK IS ENCOURAGING

The I. X. L. Now Has Ore Enough in Sight to Pay a Couple of Dividends—Excellent Assays From the Ore of the Swanesa—Other Notes.

The shaft on the newly found ledge on the Deer Park has now attained a depth of 32 feet, and is looking first rate. The rock is soft yet, and it is anticipated when the formation hardens that it will be of a higher grade. The ore carries nearly two per cent of copper, besides some gold and silver, and is of a pay grade, although the assays are not very high. A hoist has been ordered, and preparations are under way for the erection of a galva frame. Two machines are at work. One is in the shaft and the other is in the drift on the 300-foot level, which is being driven toward the new ledge. Twenty feet were made in the drift during the week, and 18 feet in the shaft. The management of the Deer Park says the new ledge runs east and west. The old workings were confined to a ledge which ran north and south.

The development on the I. X. L. is being vigorously pushed. The drifts from the upper and lower tunnels have reached a length of a little over 140 feet each. The vein in the upper drift is 2 1/2 feet wide and in the lower drift four feet. The ore will average about two ounces to the ton and with the exception of the highest grade ore is sacked for shipment and will be sent to the smelter. There is some very high grade ore, which occurs in small shoots in the veins and several tons of it is boxed up and will be sent to a special form of treatment. It is very rich and will probably run from \$1,200 to \$2,000 per ton. The only ore that is necessary in the development. The mine is to be explored to greater depth by a tunnel lower down the hill. The company is a strong one and has \$15,000 in the treasury for development work. It has been estimated by well informed mining men who recently visited the mine that there is enough ore in sight now to pay at least two dividends.

At the recent meeting of the Derby Mining company, which is operating the Swanesa, the engineer in charge reported that a tunnel was being run which will strike under the three shafts at a depth of 200 feet. The tunnel is to be driven in for a distance of 200 feet. One of the shafts is 69 feet deep, a second 90 feet, and a third 44 feet. There are some excellent showings of ore on this property. Mr. Parker, M. E., reports the following assays made on the 28th by Hastings and Parker, of samples sent to the company by the resident engineer, C. Bannatyne: 2.40 per cent copper, value \$8.64; 0.60 per cent copper, value \$2.16; 19.50 per cent copper, value \$77.20; 4.2 per cent copper, value \$15.20; 11.7 per cent copper, value \$42.12; 9.0 per cent copper, value \$32.40; 5.72 per cent copper, value \$21.72; 21.3 per cent copper, value \$78.48; 13.05 per cent copper, value \$48.99; 9.90 per cent copper, value \$35.64. The average value \$33.12 per ton. There is some gold. The mine is in a fair way of being self-supporting without the necessity of much further sale of treasury shares.

The Delos Group. The Windermere, B. C. Copper Mines, limited, is operating the Delos group on Boulder creek, one of the branches of Horse Thief creek, in the Windermere division. From a gentleman who recently inspected this property it is learned that there is a fine showing of chalcopryrite ore on this property. The vein has been stripped for a distance of 125 feet on the side of the mountain, and there is one of the finest showings in the Windermere district. The Pretty Girl group, which is located near the Delos, on the same creek, was recently optioned for a good sum to Taylor & Sons of London. A crew of 15 men was recently put to work developing this property, and a winter supply of provisions has been put in. Work is to be pushed on the Sitting Bull group, which was lately bought by Oster and Hammond. A winter camp has been put in, and a force of 10 men has been put to work. The Miner's informant states that although there has not been a great deal of money spent in the Windermere division, still the showings are so good there as to justify the belief that it will not be long before it will become a producer of ore in considerable quantities.

Purchased a Fraction. M. A. B. Dockstader has sold the Cody fraction to the Gloria Mines, limited. This fraction comprises 51 acres, and is located in the Sloon, near the Dardanelles and the Rambler-Cariboo. This gives the Gloria Mines, limited, five full claims and a fraction. The principal stockholders in the Gloria Mines are Messrs. D. E. Kerr, John Dean, T. H. Armstrong and others. The deal for the purchase of the claim is said to be a good sized one, but is withheld. The property just purchased has been surveyed and a certificate of improvement applied for.

Mr. Roy H. Clarke, manager of the I. X. L., went to Northport Monday for the purpose of sampling the carload of ore which was shipped from the I. X. L. on Saturday. Mr. Clarke is certain that this ore will give over \$20 to the ton. This carload was made of the second-class ore, which was taken out in the course of the drifting of the upper and lower drifts. The ore which carried the free gold was saved and none of it was sent with this batch. The higher grade ore, it is thought, will run up to at least \$1,000 to the ton. Mr. James Breen of the Northport smelter, arrived here yesterday afternoon.

THE JUPITER GROUP.

A Party Visit the Katie D. Green Company's Property.

Messrs. Thomas E. Miller, W. H. Danby, E. B. Irving and W. B. Townsend, who recently visited the Jupiter group, on the north fork of the Salmon, owned by the Katie D. Green Gold Mining company, had the following to say of their visit.

Mr. W. H. Danby said: "Having decided to inspect the Jupiter group of claims, in which I am personally interested, I started from Erie with a party of gentlemen bent on the same errand, and after a short climb reached the property, where I found work going on in the shape of a shaft, now down some 30 feet. I went down the shaft, which is 5 1/2 feet, and found a well defined lead of 4 feet 6 inches in width and all in ore. A couple of shots were fired, which broke off some very fine zinc galena ore, the body of which is evidently very large. Without doubt the Jupiter group is destined to be a shipper, provided work is sustained in the present energetic manner. The facilities for shipping are good, as the ore can be hauled in winter at little expense to the base of the Jupiter mountain, which is within easy distance from the main wagon road leading to the Second Relief mine, or an aerial line could be established direct to said road. Altogether the situation is a very good one, and timber and water is plentiful in the neighborhood.

Mr. Irving said: "In conjunction with other gentlemen from Rossland I visited the Jupiter group. I found on the Jupiter claim a shaft 30 feet deep, which Mr. Green had the miners put two shots into the bottom, which blew out nothing but solid silver-lead ore. I found the lead to be over 4 1/2 feet wide without foot wall in sight. I have been in a number of mining camps but never saw such a fine body of ore at the depth of 30 feet. The lead is strong and unbroken and in a solid formation. There is plenty of good live timber and water, and transportation good. With good management the Jupiter group is sure to prove a good paying mine."

Mr. W. B. Townsend said: "I formed one of the party to visit the Jupiter group on Jupiter mountain, and on going down into the shaft, was greatly pleased at the showing made. The lead cuts right across the shaft, angling somewhat, and shows a 1/2 foot of splendid looking ore. The ore wall is well defined, and it is impossible to tell you how wide the ledge may prove to be, but even with the present showing, the owners have a very encouraging outlook. That ore I took out can be seen at my office. It was taken out by myself after two shots were put in by the miners at a depth of 29 feet from the surface."

Mr. Thomas E. Miller said: "This being my second trip of inspection to the Jupiter group, I am better pleased than with the property. The ore that was shot out of the bottom of the shaft in my presence was more than encouraging. Mr. Green has convinced me that the Jupiter is a great property, which cannot be too highly recommended."

The Leo Group—A Promising Property.

This promising group of claims, situated on Keno creek, near Hall's Siding, has just been incorporated by Messrs. McMillan Bros. of this city, under the name of the Leo (British Columbia) Mining company, limited. The property, which is about three miles from Hall's Siding, on the Nelson and Fort Sheppard railway, consists of seven full claims, situated in the heart of the rapidly developing mineral district of Yain, and is about equally distant from the Porto Rico and Silver King, in the near vicinity of the Flying Dutchman and Venus groups, reported to have been recently bonded to the Hall Mines company, and is within a few hundred yards of the Fern mine.

The main ledge, which runs across the property, consists of porphyritic quartz, cutting the granite formation, and varies from 50 to 60 feet in width. The ledge is well mineralized, and contains several parallel high grade pay streaks varying from a few inches to two feet on the surface.

These paystreaks give values running up to 4 1/2 oz. in gold, 96 oz. to 388 oz. in silver, 25 per cent lead, and some copper, and assays ranging from \$59.94 to \$273.80 per ton. The shaft, which is now being sunk, is all in ore, with a fine showing of galena across the foot wall. The property is admirably situated on a mountain slope, with an abundant supply of water and timber, and has all the essentials for making a mine. A force of men is at work under John Moran as superintendent.

The local members of the board are C. O. Lalonde, B. C. Murray and Alfred McMillan.

A SERIES OF STRIKES.

They Have Been Made on Properties in the Boundary Country.

Greenwood, Sept. 30.—(Special.)—There have been most remarkable series of strikes on the properties of the B. C. Copper company in Deadwood camp here. Following up the strike of 27 feet of solid chalcopryrite ore on the Primrose claim by a railway cutting, came that of 90 feet of rich ore in the north drift of the Mother Lode, the big mine of the camp. Yesterday five feet of solid ore was encountered in the corner of the main shaft at a depth of 292 feet, going 30 per cent in copper. The B. C. Copper company is mainly owned by New York capitalists. Paul Johnson, the noted smelter expert, is superintendent, and vouches for the above.

Two other big strikes were reported today, one in the Winnipeg mine in Wellington camp. It consists of six feet of solid pyrrhotite ore in the crosscut from the main shaft, on the 300-foot level.

The other strike is on the surface of the Golden Crown, made by a railway cutting. It is 25 feet wide and identical in character with that of the Winnipeg, which averages from \$60 to \$70 in gold.

Staked Two Claims.

Mr. Daniel Amrine has returned from a prospecting trip in the Similkameen country. He staked two claims while there. One of these claims he considers valuable. It has a six-foot vein, and the ore from it assays \$21.15 to the ton. The ore of the other claim carries silver.

Mr. H. S. Sherrard, manager of the Mountain Trail at Sheep creek, is in the city.

MINES AND MINING

An Important Discovery of Free Gold in the Republic.

IS SAID TO BE VERY HIGH GRADE

The War Eagle Company Yesterday Ordered Twelve Drills, Making a Total of Twenty-Four for the Month—Progress of the Work on the Referendum.

A report reached this city yesterday by telephone from Republic that an important discovery of free gold ore had been made in the Republic mine. The find was made in the winze in the No. 3 tunnel, and consists of three feet of ore from which assays of fabulous richness are reported. The assayer who made the assays of the ore from this find, found the gold buttons to be so large that at first he thought there must be some mistake. He verified them by means of check assays, and so learned that he was not in error. Some of the assays run as high as \$4,000 to the ton. The strike made is at a point only 350 feet from the end line of the Jim Blaine, an adjoining property, and has caused an increased demand for the shares of that company.

Crosscut on the Referendum.

Mr. A. J. Littlejohn, who is in charge of the Referendum property, writes that the crosscut is now in for a distance of 30 feet, and it is expected that within a short time the ledge will be encountered. Mr. Littlejohn sent a number of specimens from the mine, each one of which carries free gold.

Operations on the Lardene.

Mr. H. O. McLymont, M. E., who is in charge of the operations on the Lardene Mines, limited, writes that the tunnel has been driven in for a distance of 24 feet. Near the tunnel a body of ore looking ore has been uncovered. A winter camp has been established and the work of development will be carried on all winter.

City of Kingston Ore.

In the window of The Miner office there is some fine-looking ore from the City of Kingston location, which is situated on Cayuse creek, five miles east of Arrow Lake and 20 miles north of Robson. The ore carries \$50.40 in gold, silver and lead. The ledge is being stripped, and this has disclosed five feet of a ledge. The property was located a short time since by Mr. J. R. Rea.

TWELVE DRILLS MORE.

The War Eagle Gives a Further Order, Making 24 Drills This Month.

The War Eagle management yesterday ordered twelve 2 1/2 Little Giant drills from the Canadian Hand Drill company through Mr. F. R. Mendenhall, the local agent of the company. This makes 24 drills supplied to the War Eagle mine this month. Mr. Mendenhall has had the recent order made by the B. C. C. for the Le Roi mine of 25 Giant Drills photographed and hung up in the office window for the curious to view.

Operations on the Mountain Trail.

Mr. H. S. Sherrard, manager for the Philadelphia Mining company, is in the city from Sheep creek. This company is operating the Mountain Trail property, and is erecting a large concentrator. Two double compartment shafts are being sunk on the property. These have each reached a depth of 90 feet, and the intention is to deepen them to the 150-foot level before drifting and crosscutting will be commenced. The shafts are being sunk on the vein, and the bottoms are all in ore of good grade. The Philadelphia Mining company is so well pleased with the way the Mountain Trail is developing that it has purchased the adjoining properties, and now owns a group of seven claims. The work on the 50-ton concentrator is making good progress. Manager Sherrard reports that the concentrator will be completed in about a month. An aerial tramway is to be constructed from the mine to the concentrating mill. The tram will be about a mile in length. The right of way for this tramway is now being cut out. As soon as this is done the tramway will be constructed.

The Minister of Inland Revenue.

Hon. Sir Henri Joly de Lotbiniere, K. C. M. G., and Lady Joly, arrived in town Thursday and was quartered at the Hotel Allan. Sir Henri Joly represents the constituency of Portneuf, Quebec, in the Dominion parliament. He entered the Laurier administration on July 13, 1896, as controller of inland revenue. Sworn of the Queen's privy council for Canada, June 30th, 1897. He called to the cabinet as minister of inland revenue, which post he now fills. Sir Henri is a lawyer, having been called to the Quebec bar in 1855, and received his silk in 1878. He was made a Knight Commander of the Order of St. Michael and St. George, May, 1893.

Greenwood Hockey Team.

The people of Greenwood, among the other organizations which stamps them as a thoroughly progressive people, are now the possessors of a hockey club, which comprises some of the best players of the Kootenays. The team which will make it interesting for competitors during the coming season, several were conspicuous members of the Rossland team last year, and distinguished themselves in every engagement in which they took part. The name of the team is the Boundary Creek Hockey team, and its members are the following: R. F. Warkner, goal; C. B. Newland, point; J. E. Leckie, cover point; Chalmers, W. G. Insner, P. C. McArthur, C. W. Chesterton, forwards.

Ready for the Press.

All matter thus far obtained for our Trade Number has been put into type, and is in readiness for the press. The work on the number is fast drawing to a close and the publication day is near at hand. Parties whom we have neglected to call upon, desiring space in the number, are requested to address communications to "Trade Number," care Miner.

THE SUNSET PROPERTY.

What Governor Mackintosh Has to Say Regarding It.

A lengthy interview appears in the Montreal Star of September 25th with Hon. C. H. Mackintosh regarding the mining business of British Columbia. In the course of the interview the following statement appears in regard to the Sunset property:

"Asked whether his syndicate had purchased a copper property known as the Sunset in the Similkameen district, Mr. Mackintosh emphatically said no. Our people are not interested in anything unless prospects were developed to such an extent as to prove beyond question the existence of double the amount of ore in sight, as was paid for the property, and the final decision as to the value of the Sunset and surrounding claims was left to an eminent mining authority, and I suppose there would be no lack of confidence by stating this was Mr. W. J. Collins of London, who unhesitatingly pronounced against the venture. There is some good ore on several of the properties, but Mr. Collins' opinion is no work has been done sufficient to prove that ore would be found at a profit. He pointed out that the ore has occurred in depth, and at other points, and the proprietors decided not to offer it to the public if dividends were expected. The controllers of the Sunset are, I think, R. E. Brown, Doctor Averill, ex-Attorney-General Joseph Martin and Mr. Smith Curtis. At all events, we have now no connection with the property, and whatever must accept all responsibility."

"Asked as to the progress of local development, Mr. Mackintosh said that the whole silver-lead district had already established an enviable reputation. At the present time many of the mines were closed or partly closed. The mines were closed, or were being paid for eight hours, wages hitherto paid for 10 hours. He hoped, however, that some solution of the problem would be arrived at as the present dormant condition of many of the mines was greatly prejudicial to the progress of that part of the Kootenay country."

OFF TO THE WARS.

Mr. Frank Montgomery Anxious to Have a Slap at the Boers.

Mr. Frank Montgomery, left Wednesday last timbered on the War Eagle, and will be back by yesterday afternoon's train for London and South Africa, with the intention of volunteering for the colonial forces, should the Transvaal come to blows with England. Mr. Montgomery saw service in South Africa in 1881 against the Basutos as a trooper in the Transvaal horse under Colonel Ferreira, C. M. G. At that time the Transvaal was under a British protectorate. Strangely enough Colonel Ferreira, who had considerable property near Pretoria, threw in his lot with the Transvaal when the Republic was established, so that if war breaks out Mr. Montgomery may find himself fighting against his own commander. At the close of the night in which Mr. Montgomery distinguished himself and was decorated with a medal he returned to England and within four months enlisted in the Life Guards to make the Egyptian campaign with Lord Wolseley. He was present at Tel-el-Kebir and in the famous night charge at Kassasin on August 28th 1882. At the end of the war he was honorably discharged at his own request and received the Khedive's bronze medal for bravery in action. Since then he has filled various situations in the peaceful walks of life, drifting at last like so many others to Rossland. The news of the South African crisis, however, proved too much for him and he has thrown up his position and gone to South Africa to enlist in the Cape volunteers. Apparently he was not favorably impressed by the Boers during his sojourn among them. He carries with him the best wishes of his fellow-miners of the War Eagle, among whom he was a great favorite.

RETURNED FROM THE EAST.

Mr. J. B. Johnson Tells of the Impressions He Received.

Mr. J. B. Johnson returned Thursday from a six weeks' trip in the east. During his absence he visited Montreal, Ottawa, Toronto and London. "In every place that I went they spoke well of Rossland and are all confident that the future is here to stay, and that it has a tone of no small importance before it," said Mr. Johnson. "The stock business there is very good and there are hundreds of people who hold shares in the mining districts of this section. There is plenty of money there for the purchase of mines, but they want dividend payers and the bigger the mine the better, or they want such properties as are likely to make dividend payers. Rambler-Cariboo is a big favorite and Okanagan is the good mine. From what I have seen during my trip I feel satisfied that the stock business, and with it the mining industry, will grow to much larger proportions than at present. Take it altogether I think that the people of Eastern Canada take more interest in the mining than those of the Boundary Creek country."

Will Make Another Shipment.

The shaft on the Virginia has reached a depth of 45 feet and at present Superintendent McPherson is engaged in stopping ore. There are now some 60 tons of ore on the dump and preparations are under way looking to the sending of another shipment of a carload to the smelter at Trail. The ore on the dump is fine looking and in several instances samples taken from the dump have been assayed, and these have run from \$45 to \$70 to the ton. It will be remembered that the Virginia made a sample shipment some time since of 44 tons, the returns from which are reported to have been satisfactory.

The Maud S. Mine.

The Maud S. mine, from which the ore is to be used in the quartz mill at the Spokane exposition was taken, is located at Waterloo, on the Columbia river, at a point 14 miles north of Trail. It is a promising free milling property and is owned by the Cromie Brothers and Mr. Eitner.

COMPANIES' ACT, 1897, AND AMENDING ACTS.

Notice is hereby given that the California Gold Mining company has appointed William Yolen Williams, miner, of Rossland, B. C., the attorney for the company in place of W. T. McDonald, of Rossland aforesaid. The said attorney is not empowered to issue or transfer stock of the company.

Dated the 15th day of May, A. D. 1899.

S. Y. WOOTTON, Registrar of Joint Stock Companies.

The Hospital Fair.

The fair in aid of the Sisters' hospital to be held under the auspices of the ladies of Rossland will open on October 14th. The following ladies will act as table holders: Mrs. Renwick, Mrs. Thor-McKenzie, Mrs. Lalonde, Mrs. Thorsburn, Mrs. Bridgeford, Mrs. Cameron, Mrs. Dundee, Mrs. Dr. Boves, Mrs. Bohu, Mrs. Lockhart, Mrs. Wallace, Mrs. C. F. Jackson, Mrs. Ruff, Mrs. Foley, Mrs. O'Hearn and others.

On Saturday next a meeting of the table holders and assistants will be held at the hospital at 3 p. m. to make arrangements.

IS A RICH REGION

Mr. F. S. Griswold Tells of the Mines of Norway Mountain.

WIDE LEDGES AND GOOD ASSAYS

The Virginia is to Make Another Shipment of Ore to Trail—Seventy-Five Tons of Ore on the Dump of the Lily Ray—Sampling the I. X. L. Ore.

Mr. F. S. Griswold is in the city from the Norway mountain section and furnishes the following account of the operations in progress there:

The properties of the Norway Mountain Gold & Copper Mining company consist of the Wellington, the Relief, the Molecan and the Madge. Work was commenced on these properties about three months ago, and as no development work had been done on these claims the work thus far has been of a prospecting nature. On the Wellington several prospecting shafts have been sunk to 100 feet in the ledge with no hanging or foot wall in sight, showing it to be a large ledge, but at present is, to some extent, mixed with gangue. The management consider this a favorable showing for the depth attained. On the Relief a shaft has been sunk 16 feet showing a four-foot ledge of free milling quartz which assays from \$4 to \$7 per ton. On the Molecan a recent strike has been made which promises to be permanent and of importance. Assays made today from this find give the following result: Gold, \$12.24. To know that the development work done thus far on these properties has been encouraging and highly satisfactory, see the smiling face of our general secretary-treasurer, E. N. Ouimette, who is the business end of the company.

"The properties of the Chrysolite Gold Mining & Development company consist of the Chrysolite, the Chromo, the Aquatic and the Burlington mineral claims. The work on this property has been done mostly on the Chrysolite, a tunnel having been run in 180 feet, 90 feet of which is in the ledge. No foot wall has been reached yet. Assays from this ledge range from \$3 to \$32.60. The company is at present working on the Aquatic, where it has a small ledge of high grade ore which very much resembles the rich ore on the Aquatic and Abbie E., which adjoin the Aquatic on the north and west. It is the present intention of the company to develop this property and with reduction works of their own, located on the natural water power, which runs across the property, reduce this high grade ore, which is free milling, and with the revenue derived from this ore develop the large body of lower grade ore at the Chrysolite.

"This Chrysolite company is composed of prominent business men of Watsburg, Wash., and the stock is principally held in that section. Mr. H. W. Allen, the president of the company, recently visited the property and expressed himself as highly pleased with the outlook, and that the stock in the head office inform me that the stock is held at 10 cents, the promoters preferring to take treasury stock and develop the property with their private means rather than to sell the stock at a less figure.

"The general interest in the Norway mountain section is great and the vicinity is in a healthy and prosperous condition. Several mining engineers of note have lately visited the camp and the general opinion expressed by these gentlemen is that all this district wants is capital to develop its resources. Several deals of importance are being negotiated with fair prospects of good result both to the investor and the camp. Among some of the prominent claims in this vicinity which are attracting the attention of mining men are the Minnie Belle group, Ballard, Highland Chief, E. R., Jessie F., Iron Bar, Joe and Joe, Christiana, Cascade, Bonanza group, Cascade No. 2, Rainbow, Greenwell, Pride Cascade, Alice L., and many others too numerous to mention. For further information I would advise your readers who are interested to come to Norway and investigate for themselves."

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The Maud S. mine, from which the ore is to be used in the quartz mill at the Spokane exposition was taken, is located at Waterloo, on the Columbia river, at a point 14 miles north of Trail. It is a promising free milling property and is owned by the Cromie Brothers and Mr. Eitner.

COMPANIES' ACT, 1897, AND AMENDING ACTS.

Notice is hereby given that the California Gold Mining company has appointed William Yolen Williams, miner, of Rossland, B. C., the attorney for the company in place of W. T. McDonald, of Rossland aforesaid. The said attorney is not empowered to issue or transfer stock of the company.

Dated the 15th day of May, A. D. 1899.

S. Y. WOOTTON, Registrar of Joint Stock Companies.

A. C. GALT

Barrister, Etc., Rossland

Postoffice Building Telephone 47

T. MAYNE DALY Q. C. C. R. HAMILTON

W. DE V. LE MAISTRE.

Daly & Hamilton.

Barristers, Solicitors, Notaries.

Solicitors for the Bank of Montreal. Rossland B. C. 1d-4w

Certificate of Improvements.

Notice

Elk No. 1, Ethel No. 1, Iron King No. 4, Tenderfoot, 2 in. L. Blue Bell No. 1, Elk No. 1 Fraction and Ethel No. 1 Fraction. Mineral claims situate in the Trail Creek Mining Division of West Kootenay district. Where located: At the head of Murphy creek. Take notice that I, R. E. Young, (as agent for The Pavo Consolidated Mines, Limited Liability, free miner's certificate No. B13,077) free miner's certificate No. B13,440, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claims.

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

Dated this Twenty-fourth day of August, A. D. 1899.

R. E. YOUNG, Young & Burnett, Rossland, B. C.

CERTIFICATE OF IMPROVEMENTS.

Notice.

Legal Tender Fraction mineral claim, situate in the Trail Creek Mining division of West Kootenay district. Where located: In the city of Rossland and adjoining the Le Roi mine.

Take notice that I, Kenneth L. Burnett (acting as agent for Almond Haney, Esq., F. M. C. No. 313933) free miner's certificate No. 34063 B, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.

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

Dated this fifteenth day of September, A. D. 1899.

KENNETH L. BURNETT, Young & Burnett, Rossland, B. C.

CERTIFICATE OF IMPROVEMENTS.

Notice.

K. and K. C. L. Fraction mineral claim, situate in the Trail Creek mining division of Kootenay district. Where located: On Lake Mountain.

Take notice that I, J. A. Kirk, acting as agent for the King Mining Company, Limited, free miner's certificate No. B13205, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.

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

Dated this 23rd day of September, 1899.

J. A. KIRK.

CERTIFICATE OF IMPROVEMENTS.

Notice.

Mountain Bell mineral claim, situate in the Trail Creek Mining Division of West Kootenay district. Where located: On Norway mountain.

Take notice that I, F. A. Wilkin, acting as agent for K. T. Englekjen free miner's certificate No. B13878; F. E. Empey, free miner's certificate No. 19567A; Martin Hagen, free miner's certificate No. B1389, and Hans Peterson, free miner's certificate No. B6741, intend, sixty days from the date hereof, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the above claim.

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

Dated this 28th day of August, 1899.

F. A. WILKIN.

CERTIFICATE OF IMPROVEMENTS.

of Improvements.

Notice.

No. 1, Iron King No. 1, Blue Bell No. 1, and Ethel No. 1. Franchise claims situate in the Mining Division of the district. Where the head of Murphy is that I. R. E. Young, the Pavo Consolidated Liability, free miner's certificate No. 13,027, free miner's certificate No. 446, intend, sixty days hereof, to apply to the for a certificate of improvements, for the purpose of obtaining the above claims. Take notice that action, must be commenced before such certificate of improvements.

Twenty-fourth day of August.

R. E. YOUNG,
Rosland, B. C.,

THE CASE IS CLOSED

The Police Inquiry Will be Concluded on Wednesday.

CHIEF INGRAM'S TESTIMONY

Case for the Prosecution Closed and Defense Put in—Mr. Walker's Evidence Concerning Mah Hung—Internal Troubles of the Force—Argument Fixed for October 4th.

What proved to be the final sitting of the police investigation opened at the city hall yesterday morning at 10 o'clock, and lasted for the better part of the day. The chief interest centered in the evidence given by the chief of police, who was examined and cross-examined pretty thoroughly.

Judging from the attendance of spectators, the general public have somewhat more interest in the matter; but very few persons were present during the day, and there was no such exhibition of feeling as characterized the first few sittings.

Mr. Frank J. Walker, broker, was the first witness called by the defence. Mr. Walker stated that he knew the Chinaman, Mah Hung, and on one occasion when the man was in his office he had asked him about the police troubles. Mah Hung said that he was the man who had paid money to Mitchell.

Witness asked Mah Hung if he was not afraid of getting mixed up in the affair and Mah Hung said that Barr had got him into his place and made him sign the paper charging Mitchell with taking the \$45. The Chinaman added that three other men had come to him and said that they represented 1,500 men and he agreed to do what they wanted. Mr. Walker continued that about this time he saw the chief passing along the street and calling him in to tell him what the Chinaman had said. The chief got excited and asked Mah Hung if he had not denied to him paying any money to Mitchell. That he had of Mitchell \$45, but that Mitchell had refused to accept it and had told him to go to the police court or the Mayor about it. Mah Hung admitted having told this story to the chief, but repeated his reasons for making the affidavit and said he was going to stick to the other story for the reasons he had given, although he knew it was false. The chief took Mah Hung by the collar and called him a perjured heathen or some such name, and asked him how he dare do such a thing, but Mah Hung merely repeated his reasons and said he had to. The chief did not use the Chinaman roughly, but only caught hold of him and held him by the collar for a moment.

Chief of Police Ingram was then called and sworn. He said he had been chief of police in Rosland since 5th July, 1897. No money had been paid him at any time for any purpose corrupt or improper. He had never received any money regarding nickel-plate machines. A report concerning the machines was signed by the chief in 1897 and handed then to the commissioners. Later in 1898 Mayor Wallace wanted the city to obtain some revenue from these machines, but finally it was decided that it could not be done. The witness said that there was no truth in the statement that he had shared with Mitchell money improperly received by him. He did not know of Mitchell ever receiving any money, and had only heard of it when the investigation was talked of. He heard about Mitchell having received money from the Chinaman, and he at once called in Mitchell, who told him the story already detailed. He then called in the Chinaman, who said Mitchell's story was true; that he had offered Mitchell the \$45 and that Mitchell had refused it and sent him to the mayor. Mah Hung said he had never seen Mitchell within an hour had reported the facts to the mayor and the other commissioners. The chief detailed the amount of his meeting with Mah Hung in Mr. Walker's office when the Celestial admitted that he had not paid Mitchell any money, but that he was forced to make the statement he had done before the magistrate by the Carpenters' union, who had 1,500 men behind them.

The witness contradicted Lam's story in almost every detail. Lam was not present, the chief said, when he went into the Columbia hotel with Colorado Bill. The witness said Lam was in good at the time. The only other time he had been in the Columbia hotel Lam was out. The witness said he never met Lam at any time at the hotel.

He knew nothing about Mitchell receiving \$30 from Lam until he heard of it in court.

The instructions of the commissioners regarding card-playing had always been carried out. The Chinaman had been asked twice. In each instance he had the mayor's order for the raid. The police magistrate did not favor the Chinamen being raided.

The chief said he had known Mitchell since 1883. He had never known him by any other name. Mitchell had been honorably acquitted of the charge made against him in Calgary, and referred to previously in this investigation. He had been an official. Mitchell was employed to get names of women on the hill and to ascertain what was going on in Chinatown. Mitchell's services were valuable to the police. Barr had complained about Mitchell pulling Morrison and Leahy, and they then left alone. The man in question had been subsequently pulled and released. The chief said he had discussed the payment alleged to have been made by May Mahoney to Sergeant McGowan with the police magistrate, and they had decided there was nothing in it. Personally the chief said he did not believe the woman's story, and would not believe her under oath. The class of women mentioned were given to making such charges in order to hurt the officials. The witness detailed his connection with Mr. Bell, and said that he found Mitchell a good at the time of the investigation. The chief admitted getting jolly when the Elks were here. He was off duty at the time. He had never been under the influence of liquor when on duty, so as to interfere with his attending to his work. The witness said he knew nothing about the details concerning the jail accounts. The witness denied positively all the statements charged against him by the prosecution. The pay-

ments of commission by Dr. Reddick was then taken up. The chief said the doctor got his money in full, and later had handed him a gratuity. The doctor had been called in since the man from Galway case, when \$10 has been paid, and the doctor was sent for on another occasion when he could not be found. The chief said Dr. Reddick had paid him the money of his own free will without being asked to do it. He had collected fees for other doctors in the same way and had not been paid a cent by them. Beamish had applied for his support as chief of the fire department, and he had refused, as he did not think he was a competent man.

To Mr. MacNeill, on cross-examination, the chief said he classed Beamish as the tool of Harry-Bell and Barr, who were the chief movers in the pending investigation. Counsel produced the regulations adopted by the board for the guidance of the chief. The chief's knowledge of Mitchell's moral character in the Northwest and his position in Rosland was then referred to. The witness said that Mitchell was acquitted of the charge made against him in the Northwest. Counsel then went over the police regulations, asking the witness how they had been complied with. The witness said that in some cases money had been collected from women on the row before they had been formally called in the police court for a certain good and well known reason. The police records and the newspapers show just what has been collected. There was no fixed period for pulling the houses. The witness said he complied with the regulations that provide that the head of the department should set his men an example of "vigilance, sobriety and morality."

Regarding the complaint of Alderman Hooson, the chief finally said that he would only take an order from the aldermen if it came through the proper source. With reference to the regulations regarding gambling and the reporting of houses of ill fame etc. the chief said he followed the instructions of the commissioners for the year as given him from time to time. The case of Sergeant McGowan for refusing to obey orders in May, 1898, was the only case in which he had reported an officer of the force to the board. He had joined in recommending Mitchell's appointment, as he believed him to be a good man and competent officer. The witness said he demanded an investigation by the police commissioners. He told the mayor of the matter. Mitchell applied for two months' leave to go and work on a claim. This was in the month of May, and leave was refused. The understanding with each succeeding mayor was that things should continue as they were, that is, that poker should be allowed. A distinction was made between the professional and the occasional gambler. The former were sometimes pulled and fined. The witness said that men who did nothing else for a living but gamble were hauled up and fined on general principles. The chief admitted taking Mah Hung by the collar on account of his making a false statement. The witness said Bell, Barr and Beamish started the trouble in connection with the charges against the police force. They had hunted up all the Chinamen in the city in the matter, and had taken the Trades and Labor Council and later the affair up. Barr wanted Morrison or Leahy to start a game in his house, and was told that if they did they would be pulled and fined, and later these two were hauled up and fined. The men mentioned have been playing since. Lam's evidence, the witness claimed, was clearly manufactured, as it was shown by himself and two other witnesses that Lam was not present on the occasions claimed by him. The chief detailed the particulars of the Colorado Bill incident. He believed Beamish, Barr and Bell got Lam to make up the story told before the commissioners. The witness said he believed Bell would go to any length to connect him with the charges made against him personally. The chief added that he considered Bell and Beamish both desperate men, and that he thought one of them was crazy. The witness said he had seen Mah Hung at the office but had only told him where to go to start the investigation. He had taken the summons away from the Chinaman. He was not on good terms with Mr. Bell at the present time. Bell had never on any occasion charged him with cheating at cards.

At this stage the court adjourned from 12:45 to 2 o'clock.

After the adjournment the cross-examination of the chief was continued. He said that he had received money from the keepers and inmates of the houses when they paid fines, and had turned the cash over to the city clerk. In May last some of the payments made, he could not say which ones, were paid him personally. The amounts received were all entered up in the proper book. Every dollar so received was turned in to the city clerk. He could not say in how many instances he had personally received the fines. To Mr. Macdonald the witness said Le Boeff had been reported to him from Aberdeen as a crook. He was arrested in Bell's place, but the force had nothing against Bell, it was Le Boeff they were after. Counsel stated that the chief's evidence concluded the defence.

To the Mayor the chief said he had been warned against the sergeant; that he was doing everything he could to undermine his authority; he had tested the sergeant and had found the statement to be correct. This was in answer to a question by the Mayor as to the acknowledged coolness between the two officials. The commissioners thought it was only fair that Sergeant McGowan should be heard and that officer was sent for. After some delay Sergeant McGowan arrived and was recalled.

To the Mayor the sergeant said he could not exactly tell why a coldness had sprung up between the chief and himself. He had been put and kept on night duty for about a year and thought this was a hardship. He knew of no other cause. The evidence of the chief against the sergeant was then read over to the witness, and he said that he had never at any time attempted to undermine the chief; not even when he had the chance to do some mean work. The difference between the chief and the witness had affected his work on the force. He had not simply a night watchman. He had not complained to the commissioners about being kept on night duty, but had spoken to the chief about it. He had known the chief in Winnipeg and Calgary. He did not feel the chief was treating him right. He felt that his hands were not tied. The chief and the men would not talk before him and seemed to have mentioned. Perhaps he should have mentioned the state of affairs to the commissioners, but he did not care to. He had been charged with refusing to obey orders in not ar-

resting some women on the street who were under the influence of liquor at the time. The women were quiet and behaving themselves and he did not think he would be sustained if he had arrested them, and that was why he did not do so. He did not know of any corrupt dealings with the force. He did not think there was anything in the fact of the chief being on duty at day and on night duty, so far as affecting the morals of the force. The evidence of Mitchell was read over, in which he stated that May Mahoney and another woman had said they had paid the sergeant \$5 on one occasion. The witness stated most positively that he had not at any time received money from any woman or person in the city.

To Mr. MacNeill the witness said he knew of Mitchell in the Northwest; he was on the black list of the Winnipeg police. He was looked upon as belonging to the criminal class in that city.

To Mr. Macdonald, the witness said he had nothing against Mitchell while acting in his official capacity. Two of the recent robberies in the city had taken place when he should have been on duty, but was not. He had been and was on intimate terms with Mr. Brownlee and had talked over the investigation with him, but had not taken any of the books of the police up to Mr. Brownlee. He had rendered them some assistance regarding the charges made against the chief. The commissioners had reprimanded him for not obeying orders when brought before them by the chief. No overtures of friendship were made by the chief after the reprimand mentioned and the witness said he was sorry about the matter ever since. He thought the chief's position, nor had he been promised the support of any one for the position.

All the evidence being in Mr. Macdonald said he must ask further time before addressing the commissioners, as he had not had time to digest the evidence. It was finally arranged to hear the summing up by counsel on Wednesday evening at 7:30.

PROVINCIAL GAZETTE.

Dr. Reddick Appointed Coroner, and Wm. B. Townsend J. P.—New Companies.

Victoria, Sept. 28.—The Official Gazette of this week contains notice of the following provincial appointments: Robert Reddick, M. D., of Rosland, to be a coroner for the province; Walter Thomas Dowler, Claycoquit; Wm. Simpson, Duncan City; Thomas Fulton Helgeson, Quennele Forks; Wm. Swinburne Moore, Agassiz; Wm. H. Ladner, Ladners; Everard H. Fletcher, Victoria; Wm. B. Townsend, Rosland; John Pierson, Stevenson, and Jas. E. McMillan, Victoria, to be justices of the peace for the counties of Victoria, Nanaimo, Vancouver, Westminster, Yale, Cariboo and Kootenay.

All placer claims in the southern division of East Kootenay are laid over from October 1st to June 1st, 1900.

"A meeting of the board of examiners for provincial land surveyors is to be held in the parliament buildings at Victoria on October 2nd at 9 a. m. John McKenzie, acting secretary.

The annual meeting of the Bellington and Nelson Railroad company will be held at Kaslo on October 18th at 4 p. m., for the election of directors and other business.

Notice of extra provincial companies are registered as follows: Philadelphia Mining company of Northport, Wash, capital \$100,000, local office, Rosland, E. N. Oumette, attorney. Ajax Fract'n Development Syndicate, London, England, capital \$20,000, local office, Sandon, Maurice Gitzlberger, attorney.

The following companies have been incorporated: The Montgomery and McDonald company, Nelson, capital \$20,000. Nelson Opera House company of Nelson, capital \$25,000. Ormonde Gold-Copper Mines of Rosland, capital \$125,000. Province Mining & Development company of Vancouver, capital \$400,000. The Lardreau Mines of Rosland, capital \$100,000.

GEORGE PURGOLD
Stocks and Mines.
Stocks Bought and Sold on Commission Only
Weekly Market Letter Forwarded on Application.
Correspondence Solicited. ROSSLAND, B. C.

J. B. Johnson & Co.
(Members of the Rosland Stock Exchange.)
Brokers & Financial Agents
STOCKS BOUGHT AND SOLD ON COMMISSION ONLY.
Send for our Weekly Market Report. Special agents for the Gold Dollar Mines limited; Crown Gold-Copper Mining Company in Greenwood Camp.
Correspondence Solicited. ROSSLAND, BRITISH COLUMBIA.

William I. Reddin. C. O'Brien Reddin
C. O'Brien Reddin & Co.
(MEMBERS OF THE ROSSLAND STOCK EXCHANGE.)
MINERS and BROKERS,
Rosland, B. C., and Spokane, Wash.
Mines and Stocks in British Columbia, Republic Camp, Washington, Idaho. Flotation of Mining Properties a Specialty.
Official Brokers for the Canada Western Gold Mining & Exploration Company (Camp McKinney).
Cable Address: "Reddin." Codes: Clough's and Moring & Neal's.
REFERENCES EXCHANGED.
We have buyers for all stocks. Send us a list of your holdings.

Gold Reef Mining & Milling Co.
LIMITED, NON-PERSONAL LIABILITY.
Property Situate on Wild Horse Creek
YMIR, B. C.
FOR DEVELOPMENT PURPOSES ONLY
Fifty thousand shares of the Company's Treasury stock is now offered to the public at 7½ cents per share.
This is the first Treasury stock placed on the market and can be had on application to
113 East Columbia Avenue W. H. DANBY, Secy-Treas.

FIRE INSURANCE
We are the only agents in town that write their own policies. No delay. Policies written while you wait.
Connecticut of Hartford. Lancashire of England. Imperial of England. Calcuttan of Scotland.
ROLT & GROGAN
Accountant
Mining Agent
Stocks and Shares
Cable Address—"Whitehall." Code—Bedford McNeill.
16 Columbia Ave. P. O. Box 88. ROSSLAND, B. C.

THOS. S. GILMOUR
Accountant
Mining Agent
Stocks and Shares
Cable Address—"Whitehall." Code—Bedford McNeill.
16 Columbia Ave. P. O. Box 88. ROSSLAND, B. C.

Katie D. Green G. M. & D. Co.
LIMITED, NON-PERSONAL LIABILITY.
Property Situate on North Fork of Salmon River
ERIE DISTRICT, B. C.
FOR DEVELOPMENT PURPOSES ONLY.
Fifty thousand shares of the Company's Treasury stock is now offered to the public at 7½ cents per share and can be had on application to
22 Columbia Avenue
ROSSLAND, B. C. Secy. Treas.
C. E. BENN, Broker J. L. PARKER, Mining Engineer.

J. L. PARKER & CO.
Mining Engineers and Brokers
All standard stocks bought and sold. Mining Properties examined and reported on.
Good Copper and Silver-Lead Properties Wanted.
P. O. Box 64, Rosland, B. C.
Cable Address, PARKER Codes, A B C, Clough, Moring & Neal, Bedford McNeill
Ymir Office in Charge of H. C. Carr, M. E.,
Where we carry on a general mining and assay business. Having Mr. Carr on the ground, reports on properties in the Nelson Mining Division can be expeditiously made.
J. L. PARKER & CO.

Similkameen Copper Mining Co.
LIMITED.
Owning the Nooday adjoining the Sunast, also the Virginia and Alabama. The Virginia is acknowledged by some of the best experts in America and Canada to have the largest surface showing on the celebrated Copper mountain. For prospectuses and stock apply to
J. L. PARKER & CO., Official Brokers.

OF IMPROVEMENTS.

Notice.

Fracture mineral claim, Trail Creek Mining division district. Where located: Rosland and adjoining the

that I. Kenneth L. Burnet for Edmond Haney, Esq., (130333) free miner's certificate No. B, intend, sixty days from the date of this notice, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the

take notice that action, must be commenced before such certificate of improvements.

teenth day of September.

KENNETH L. BURNET,
Burnet, Rosland, B. C.

OF IMPROVEMENTS.

Notice.

L. Fracture mineral claim, Trail Creek mining division district. Where located: On

that I. J. A. Kirk, acting as King Mining Company, miner's certificate No. B, intend, sixty days from the date of this notice, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the

take notice that action, must be commenced before such certificate of improvements.

23rd day of September, 1899.

J. A. KIRK.

OF IMPROVEMENTS.

Notice.

Fracture mineral claim, situate in the Mining Division of West Kootenay district. Where located: On

that I. F. A. Wilkin, acting as T. Bugleskjen free miner's certificate No. 13058; F. E. Empey, free miner's certificate No. 19577A; Martin free miner's certificate No. H13509; Peterson, free miner's certificate No. 41, intend, sixty days from the date of this notice, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the

take notice that action, must be commenced before such certificate of improvements.

28th day of August, 1899.

F. A. WILKIN.

OF IMPROVEMENTS.

Notice

Fracture mineral claim situate in the Trail Creek mining division of West Kootenay district. Where located: On

take notice that I. Kenneth L. Burnet, acting as Curtis, F. M. A and W. L. Lawry F. M. A, free miner's certificate No. 41, intend, sixty days from the date of this notice, to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the

take notice that action, must be commenced before such certificate of improvements.

eighteenth day of August.

KENNETH L. BURNET
Burnet, Rosland, B. C.

OF IMPROVEMENTS.

Notice.

No. 2 mineral claim, situate in the Trail Creek mining division of West Kootenay district. Where located: About southeast from the city of Rosland, in the Southern Cross district.

that I. N. F. Townsend acting for Thomas Smirl, No. B O'Neil, No. 19297 A., Lake D. O. 4524 A., Alexander Rogers Mary Hennessy, No. B. 11893 B. Bogle, No. 33588 A., intend, sixty days from the date hereof to apply to the mining recorder for a certificate of improvements, for the purpose of obtaining a crown grant of the

take notice that action, must be commenced before such certificate of improvements.

11th day of September, 1899.

N. F. TOWNSEND.

NOTICE

and Blue Grouse Consolidated Company, Limited.

Ordinary special general meeting of the shareholders of the above company held at the office of the company, Columbia avenue, Rosland, B. C. on Wednesday, 25th October, for the purpose of considering a resolution authorizing the directors to sell or dispose of any portion of the assets, rights, powers, privileges, franchises, etc., of the company.

Rosland, B. C., 16th September.

THOMAS ANDERSON,
Secretary.

THE SEPTIC TANK SYSTEM.

The Mayor Hopes to See the System in Operation Here Shortly.

Referring to Mr. Wylie's visit here Friday Mayor Goodeve said: "Yes, I met Mr. Wylie, the agent of the septic tank system and had a long conference with him. Mr. Wylie will shortly submit plans for the approval of the city council and I hope that we may be able to install a plant this fall. I do not think we can undertake to finish a complete sewerage system for the whole city now, but a start might be made, commencing with Columbia avenue and Washington street, and perhaps some other adjoining localities, and by degrees the area covered can be enlarged until the whole city is provided with a system of treating the sewage from the localities I first mentioned, the population included being about 2,000. It is estimated that two tanks will be sufficient for this purpose and as the area and population to be provided for is increased, other tanks can be installed from time to time as needed. The system is automatic and does not require more than one quarter of an acre to operate it in. From a rough calculation made with Mr. Wylie yesterday I think a plant could be installed and connection made with the sewers already laid down for \$10,000. I think we can complete this fall if the relief of the sewage from the congested part of the city can be generally. Then in the spring the sewerage system could be extended and more tanks added as required. Mr. Wylie undertakes that the water after passing through the filtration process will be rendered perfectly innocuous and there will be no possible objection to its emptying into Trail creek. Indeed, Mr. Wylie claimed that after the process the water could be drunk with perfect impunity. Once erected the tanks will practically take care of themselves, requiring no attendant. Once in every five years the system requires cleaning, otherwise no expense is incurred. The patented system, which is a simple one, is by no means in the experimental stage and we have been furnished with ample testimonials from many cities where the system has been used effectively for some considerable time."

The Mayor concluded with the statement that in any contract made by the city with the syndicate a clause should be inserted that the system should be erected and all sewerage claimed for it clearly demonstrated before any money was paid over. When the plans referred to reach the camp the city council will at once take the matter up.

MR. E. C. CLOUSTON.

The General Manager of the Bank of Montreal in Town.

Mr. E. S. Clouston of Montreal, general manager of the Bank of Montreal, paid Rosland a short visit yesterday. With him were Major and Mrs. Athley of Ottawa. Mr. Clouston yesterday inspected the bank's handsome new building in this city, now being completed and already partly occupied, and left for the east on the afternoon train. The general manager is quoted as saying: "While our policy is conservative, it will be seen that our bank is sufficiently strong in its faith in British Columbia when I say that we have now in course of erection bank buildings at New Westminster, Rosland and Nelson. It is the policy of the Bank of Montreal to erect our own premises when we are thoroughly satisfied the permanency of the location warrants it."

The satisfaction of our banks with the condition of things in the gold regions of British Columbia will be noted with pleasure by those who have assisted to make mining in Canada a legitimate and profitable industry."

THE DEATH BADGE.

Is Spared to Many a Home, Because Dr. Agnew's Cure for the Heart Never Fails to Cure Heart Disease—Relief in 30 Minutes.

The pall of death has hovered over many a diseased heart looking for the last flicker of the candle, and Dr. Agnew's Cure for the Heart has stepped between the patient and the grim hand, and nursed the sufferer back to perfect and permanent health. Thomas Petrie of Ayler, Que., had heart disease for five years, was unable to work. The doctors gave him up to die many a time. Dr. Agnew's Cure for the Heart gave him relief in 30 minutes, and four bottles cured him. Sold by Goodeve Bros.

WILL VISIT ROSSLAND.

Governor-General Will be Here Early Next Summer.

Ottawa, Sept. 28.—(Special.)—Ex-Governor Mackintosh waited on His Excellency Lord Minto today and asked him on behalf of the citizens of Rosland to visit that city as their guest. The governor-general regretted that he would not be able to accept the invitation this fall, but would go early next summer, when he intended making an extended tour in Western Canada.

GETTING READY.

Conservatives Preparing for Elections—Delegates to New Westminster.

At a meeting of the local Liberal-Conservative association, it was decided to send a delegation to the provincial convention, to be held at the city of New Westminster during far time, on the 5th of next month. The delegates selected are Mayor Goodeve, Hon. T. Mayne Daly, Mr. A. H. MacNeill, Alderman John S. Clute, Jr., and Mr. Alexander Dick.

Messrs. E. D. Orde, D. B. Bogle and A. B. Mackenzie were chosen as substitutes.

It was the feeling of the meeting that the next provincial election should be contested on strictly party lines, but the delegates to the convention are to be at liberty to act and vote as they may see fit on this and all other questions which may arise.

The question of the voter's lists came up for discussion, and it was decided to go over the list very carefully before the court of revision is held here early in November, in order that all omissions may be rectified in time, and any names that have been improperly added may be struck off.

An effort will also be made to increase the active membership of the association. Application for membership may be made to Mr. J. L. G. Abbott, the secretary. The meeting adjourned to meet again on Wednesday evening, October 11th, when the report of the delegates to the convention will be submitted.

Cases at the Coast.

Mr. Alex. Galt has just returned from Victoria, where he has been engaged in arguing the appeal of the Iron Mask and Centre Star case and that of Adams and Burns vs. the Bank of Montreal, before the full court. In the mining case it will be remembered that the Iron Mask company appealed against the terms of the order allowing a postponement of the trial of the action last spring and also against the order permitting further experimental work to be done in the disputed ground claimed by both parties to the action. The appeal just argued before the full court was against the orders made by Mr. Justice Walkem at the time mentioned. Judgment was reserved and will be given later when the court meets again.

Judgment was also reserved in the appeal of Adams and Burns against the Bank of Montreal, an action brought by a Toronto firm of liquor merchants to set aside a mortgage given to the bank by the Kootenay Brewing company.

The City Hall.

Everyone who visits the new city hall building expresses approval of the new order of things. One improvement that is wanted is a covering of some sort for the floor. At present when there is any considerable attendance present the noise caused by persons coming and going renders it difficult to hear what is being said by the speakers. The three hand-some electric chandeliers that have been put in place completely lights up the hall and the globe at the entrance improves matters considerably. The question of heating the hall and all the offices has not yet been decided, but a furnace of some sort would seem in order. The improved arrangements from the old city buildings at the other end of the avenue are very marked.

Profitable Investment.

Mr. Thomas Miller has purchased the Cosmos block, on the south side of Columbia avenue, near the corner of St. Paul street, from Mr. George N. Taylor for \$7,000. The lot has a frontage of 100 feet on Columbia avenue, and runs back 100 feet to the alley. It has a three-story tenement upon it at a cost of \$3,500. It brings in a monthly rental of \$131, and has been rented about all the time since it was constructed. It has, therefore, proved a profitable investment for Mr. Taylor.

IN AND ABOUT GREENWOOD

THE C. P. R. WILL REACH GREENWOOD IN 10 DAYS FROM NOW.

Description of the Smelter, Which is at Present Under Construction—Notes of the Mines.

Greenwood, Sept. 27.—Since the report of the big strike on the Primrose, adjoining the Mother Lode, was received, it has been ascertained that in the north drift of the Mother Lode itself a most remarkable showing of ore has been exposed. For some time they have been crosscutting and are over 140 feet in ledge matter. This is not remarkable in itself, because the ledge matter has long ago been determined as over 200 feet in width; but a pay chute of 90 feet of solid shipping ore has been cut and the men are still in values. Since the strike on the Primrose it has been surveyed and the lead shown to be that of the Mother Lode, so large on the surface that 100 tons a day can be quarried out from the start. Accurate measurements show that the B. C. Copper company has here in sight 1,200 feet of vein in length, with a general width of 200 feet of ledge matter, much of it richly mineralized.

Definite news has been received that the tracklaying will be completed into Greenwood in 10 days, and that freight will be delivered three days afterwards. The tracklayers are expected in Bulk on Friday evening, and the force will continue right on into Greenwood, and through to Midway without delay. The long trestle across Boundary creek, which will be 95 feet high and 750 feet long is being pushed, and the frame work will be ready for the rails in about a week. That is the only obstacle now to completion. It is not intended to lay the rails as at first contemplated, so that no delay will be experienced in completing the main line. The track on the spurs on account of the heavy grades will be laid by hand. Regular passenger trains will be running without any doubt by the first of November at the latest, and probably sooner.

The representative of the Miner called on Paul Johnson this week while he was at work on the smelter site with a staff of assistants busy making or rather completing the survey of the grounds. Already the greater part of the trees have been felled and cut up. The stumps will be blown out, and the excavation for sampling will be begun probably by tomorrow by contract. The superintendent is building an office on the ground, and everything looks like business now that the question of ground for a dump has been settled. Twenty men have been at work clearing, and as the work of excavating, building retaining walls, etc., proceeds this force will be greatly augmented. A general description of the site and the proposed plans in connection with the smelter will be of interest.

Paul Johnson says, and his experience is sufficient to give the statement due weight, that it is an ideal site, one of the very best that could be selected anywhere, and now that the trees are cleared off it is easy to see the wisdom of the choice that has been made. There are 70 acres altogether in the site, and the location and configuration make it unique—as though nature had especially designed it for the purpose. It lies just between Greenwood and Anacostis, where Boundary Creek crosses the main line from the level of the flat where the two waters join, and where is the dump—probably 25 acres—there are a series of benches which take you to the top where the spur line of the railway comes down from the Deadwood camp and the Mother Lode mine. Each bench has its special use, whereby the economy of handling the ore from the time it leaves the cars until the matte enters the cars down below on the main line, is reduced to a minimum. It is a perfect system of gravitation. Starting at the top there are the spur lines leading to the ore bins and sampling mill. Below that again is a fine bench for the general operations of the smelter, and room for 20,000 tons of ore, tracks, furnaces, etc., etc. This bench is 100 feet above the level of the dump, and along the edge where the furnaces will be located will be built retaining walls, over which the slag will be carried. Lower down to the left is another bench, smaller in extent, but sufficient for the bessemerizing and the process which it is intended to carry on there. Then high above the whole works the stack, which will have 175 feet of an elevation at its base, will tower 200 feet into the air, carrying its smoke away clear of the city to the westward. The furnace will have a capacity of 250 tons a day to start with, and the whole design is so planned that this can be enlarged as is required to a capacity of 1,500 tons daily. This satisfactory result has not been attained without a good deal of thinking on the part of the superintendent, whose aim has been to reduce the cost of handling to the lowest point possible. The ore goes in from the spur above and comes out on the main line for shipment, and everything is down hill. Asked as to the time when the smelter would be completed Paul Johnson said he could have it running in four months if necessary, but there was no use hurrying until there was ore enough in sight to keep it running continuously from the time it was blown in; and of course, that would depend on a number of circumstances. As soon as the railway is in to Greenwood, and material can be brought in, the work of construction will begin.

The Coxy is to Ship.

Major R. G. Edwards Leckie, general manager of the Republic, is in the city. Major Leckie is also consulting engineer for the Montreal Gold Fields syndicate, which is operating the Gertrude and Coxy properties in this camp. He stated yesterday to a Miner representative that they had decided to commence shipping ore from the upper tunnel of the Coxy, where there is considerable of it on deposit ready to be shipped. It is the intention to keep up the shipments continuously, as the Northport rate of \$4.50 per ton makes it possible to ship the ore from this mine at a profit. In referring to the condition of the Republic mine, Major Leckie stated that the rich shoot of ore had been met in the lower, or 600-foot level, and that the mine generally was looking remarkably well.

THE SURPRISE IS APTLY NAMED

A SHOOT OF ORE FOUND THAT AS SAYS \$400 TO THE TON.

Notable Mining Men on a Visit to Republic—Shaft on the Flagstaff is in Ore.

Republic, Sept. 26.—(Special.)—The Surprise is proving that it was aptly named. The south drift is in 100 feet, and now they are running on a great shoot which goes \$400 to the ton, and are not fairly in it as yet. Although the face is full, it is the first rich shoot yet encountered on either side of Eureka creek, and that is saying a great deal, for the hills on both sides of the creek are very promising, and include all mines from the gulch, the In-surgent, Lone Pine, Pearl, Little Case, and numerous others on the eastern ridge; while the western side has its San Poll, North San Poll, Ben Hur, and all along to the mountain Lion, Tom Thumb, Eureka, and dozens of promising prospects. The north belt is swiftly forging ahead, with its O. K. and Nova making such good showing.

The No. 4 tunnel of the Republic mine is now in 1,950 feet, and is making rapid progress. They expect to tap the ledge by about November 1st. The engine and hoist are now working on the vein which is down 50 feet. The ore is very rich and excellent. Some of the largest assays yet obtained in the mine have come from the vein.

In Sheridan camp the compressor has started up on the Zala M., and they are now working a full force of men. Great results are expected from that wonderfully rich mine. There is a great deal of activity reported from that camp and its surrounding sections, including both assessments and developments.

Quite a distinguished party of six arrived Sunday evening by private conveyance from Myer's Falls. The party consisted of ex-Senator Warner Miller of New York; Judge James McNaught of the same place; L. H. Hobbs, of the B. C. Bullion Reduction and Extraction company, of Rossland; J. E. Hewston of San Francisco; J. W. Dudley and Van-B. De Lashmutt of Spokane. They report the road excellent until they reach this side, where they took saddles for nine miles, where a rig awaited them for Republic. They claim that \$5,000 expended on this side of the road would make it almost a boulevard, over which the drive could be made in about six hours. Since their arrival the gentlemen have been visiting the various mining properties, in some of which they are interested. Senator Miller is interested in the Republic, which mine he is visiting today. He is also interested in the Slocan, which he intends to visit. The gentlemen seem well pleased, and will remain here a day or two more, thoroughly examining the camp. The senator claims to be out of politics, as mining is exciting enough for him. They make more investments.

The shaft on the Flagstaff, at Cody's camp is down 30 feet, with a full bottom of ore in the double compartment shaft. The ore is very high grade.

The big 500-pound fire bell was hung yesterday, and rang out clear and strong over Republic.

The Madonna Mining company has been reorganized, with Frank Rabour as president, W. B. Beck, vice-president; A. Walker, secretary and general manager, and J. C. Kerby treasurer. The company owns the Ben Hur, in the Republic, adjoining the Mountain Lion, the Georgia fraction, adjoining the Republic, and the Idaho, next to the Gold Ledge.

Prince de Polignac of Paris, has been a visitor here. He came from Rossland.

IN AND ABOUT GREENWOOD

Liberal-Conservative Association Organized for Boundary Creek District.

Greenwood, Sept. 28.—In pursuance to announcement there was a well-attended meeting of Liberal-Conservatives in Rendell's hall last evening, at which two delegates were appointed to go to New Westminster to represent Greenwood and district at the annual meeting of the Liberal-Conservative Union on the 5th of October. It was decided to organize an association to be known as the Boundary Creek District Liberal-Conservative association. For this purpose an executive committee was appointed as follows: E. Jacobs and Hugh Murray, Midway; G. A. Rendell, Eholt; W. G. Williams, Phoenix; and C. Prange, James Kerr, C. E. Ingersoll, A. S. Black, H. C. Shaw, M. J. Walker, Greenwood. Clive Pyrling was appointed chairman, and Johnson Myers Gray, secretary.

Assays from the Veat, a mineral claim inside of the corporation limits, upon which some work is being done, go as high as \$110 in gold.

F. Hilbert and Pete Lover, Greenwood, have bonded their claims on Boomerang creek, west fork, to mining interests represented by Fred Cumming, C. E., for \$30,000.

FROM THE RECORDS.

Bills of Sale.

John Kraff to Morten Anderson, an undivided 2/3 interest in the London mineral claim for \$1.

John Kraff to Morten Anderson, an undivided 2/3 interest in the Hope mineral claim for \$200.

George E. Plunder to Robert Hunter, an undivided 3/16 interest in the Townsite mineral claim for \$1.

Frank A. Davidson to John G. Boehmle, the Standard mineral claim for \$1.

James A. Webb to John G. Boehmle, the Bonanza mineral claim for \$1.

Joseph Maire to John Hammer, the Elizabeth mineral claim for \$1.

Certificates of Work.

To T. R. Newman on the Victoria. To George Davis on the Nora Darling. To Wilson McKinnon on the Luella M. To R. Campbell on the Rossland Star. To Joseph E. Sanders on the Noble Five. To S. A. Hartman on the Arthur. To D. McDermid on the Eunice. To John McIntosh et al, on the May, and same on the Monitor. To same on the Utopia. To same on the Friday. To same on the Merrimac. To same on the Venango. To same on the Alleghany. To same on the Mohawk.

MR. SMITH CURTIS' REJOINDER

REPLIES TO MR. MACKINTOSH'S CRITICISM OF THE SUNSET.

It is Claimed That the Latter Desired to Purchase the Property, and That It is a Case of Sour Grapes.

Mr. Smith Curtis, who is one of the incorporators of the Sunset Copper company, limited, which is organized to take over the famous Sunset claim on Copper mountain, Similkameen river, in Yale district, was seen with regard to the interview of ex-Governor Mackintosh in the Montreal Star and quoted in yesterday's Miner, and had this to say: "I do not know why Mr. Mackintosh has chosen to talk in an equivocal way about the Sunset, with which he has now nothing to do. We all know that the courteous ex-governor has a big heart, and it is possibly pure philanthropy that prompts him to give nothing to the public in this gentlemanly way so costly an opinion as that of Mr. Collins, (whose yearly perquisites for such opinions are said to be about \$50,000.) But all the facts should be given. I do not know that Mr. Mackintosh had, during the summer, options on all the Sunset, but he had a \$40,000 option on E. A. (Volcanic) Brown's 15-32 interest, expiring 31st August, and that on that date he had deposited that amount in the Bank of Montreal at Rossland, where it was payable in payment for Mr. Brown's interest, and Mr. Brown was notified to that effect. Some days afterwards Mr. Mackintosh asked the bank to return the money because the conveyance from Brown had not been left in the bank. The important fact is that after several examinations by his experts during 15 months, Mr. Mackintosh completed on his side by a cash payment of \$40,000, an agreement to buy a partial interest in the Sunset at a price approximately \$35,000 for the whole claim, and this claim distant 190 miles from a railway station; certainly I believe the largest cash price ever paid for a prospect in British Columbia. The public can thus judge whether in the opinion of Mr. Mackintosh and of his advisers, the Sunset is really the greatest copper prospect (as all who have seen it say it is) in the country. It is to be noted that when Mr. Mackintosh intimated that he wished to withdraw his money, Mr. Brown could have compelled payment, but instead he was only too glad to acquiesce. Mr. Mackintosh's surprise and discomfiture. I know that the written report given to the owner of adjacent property for the non-purchase of his claims was inability to get the Sunset, which is admittedly the "key" (not the "golden," but the copper key) to the treasure stores of Copper Mountain. At the same time this was expressed of respect for the wishes of Mr. Mackintosh, who still hopes of being interested in Copper mountain. Whether his interview will help him to get there any cheaper remains to be seen. I may say that last year when the B. C. A. had options on the Sunset and adjoining claims, and Mr. Mackintosh hoped to boost the falling shares of that corporation, he heralded in the mining press of Britain that options had been obtained on copper properties in East Kootenay and Yale that would be worth \$10,000,000 or \$50,000,000. Had Mr. Brown forced Mr. Mackintosh to pay over the \$40,000 and take the 15-32 interest in the Sunset, would not the Governor be singing the same old tune to would-be investors? Let me add that neither ex-Attorney-General Martin nor I had or have any ownership in the Sunset, but when Mr. Brown, and now Mr. Mackintosh, wished to withdraw, I happened to be in Grand Forks, and he asked me to join him in purchasing Dr. Averill's half interest for a company. We saw Dr. Averill, who informed us he had received by wire an offer of \$100,000 for the whole property from a close personal friend of Mr. Mackintosh. Both owners agreed to reject the offer. Subsequently Dr. Averill agreed to sell his interest for part shares and part cash. The shares he put up for cash were on the basis of \$73,333 for his half interest—a large price, but one that is justified by this magnificent property. Grand Forks people have already bought over 100,000 shares without solicitation. Mr. Mackintosh says: "Our people determined to offer nothing to the public unless prospects were developed to such an extent as to beyond question the existence of double the amount of ore in sight as was paid for the property." Verily, Mr. Mackintosh has learned something since he bought for the B. C. the Great Western at \$100,000, when, according to his new formula it was probably not worth as many cents, and how about the Nickel Plate (Golden Chariot and others if bought for the B. C. on this basis. Even the Le Roi would not have brought \$3,500,000, for if it had \$7,000,000 of ore in sight the poor dear public for whom the ex-governor is so solicitous would not be sighing in vain for their first dividend. According to Mr. Hastings' report of a year ago the War Eagle had then 100,000 tons of ore averaging \$17, or valued at \$1,700,000; at that time the deluded public were buying the shares on a basis of three times the value of the ore in sight, or \$5,100,000, and later at the price of over \$6,000,000, while by the ex-governor's rule the value was only \$850,000! Truly the ex-governor and "our people" are very close buyers in the mining line, and I fear it will be a very long while before our mine owners see much of the \$20,000,000 (?) of capital controlled by the Mackintosh syndicate while this rule of purchase is adhered to, and nothing but developed properties will be eligible, for no slightly developed prospect, no matter how big the surface showing can be said to have technically much "ore in sight."

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Montreal, Sept. 22, 1899.

Dear Sir,—The Sunset mineral claim is a crown granted full sized mineral location 500 yards square, situated on Copper mountain in the Similkameen district of the south fork of the Similkameen river.

It is accessible from Spence's bridge on the C. P. R. by wagon road, a distance of 120 miles to Princeton, thence by trail 12 miles to the top of the mountain. It can also be reached from Keremeos, by trail 45 miles east of Princeton, thence by wagon road to Princeton, 30 miles further on. The contemplated route of the C. P. R. to Hope will pass very near to the property when completed.

TIMBER.—The whole of Copper mountain, as well as the adjoining districts, is well timbered with magnificent pine and fir, admirably adapted for mining purposes.

WATER.—The south fork of the Similkameen river flows about 2,000 feet below the surface of the claim and has an abundant supply of water for all mining purposes throughout the year. Other sources of water supply for domestic and mining purposes are also available.

BUILDINGS.—There are none on the property.

GEOLOGY.—The ore is present in a diorite surrounded for the most part by gray granite. In the diorite there is a mineralized zone passing throughout the whole length of the Sunset mineral claim, and into those adjoining, reaching, however, its greatest width in the above-mentioned Sunset, upon the surface of which large areas of copper-stained diorite are seen, one of these

of liquid metal. This process was discovered by H. L. Pattinson, Newcastle, England. The annual production in the United Kingdom at the time referred to was about 70,000 tons of lead and 725,000 ounces of silver, from the greater part of which the silver was extracted by the process described, at which time silver was profitably extracted when as low as three or four ounces to the ton although in some ores it ran as high as 100 ounces or over, the average being, as stated, 10 ounces. When lead containing silver is exposed as a high temperature to a current of air, the lead is converted into protide, and may be run off in a fused state from the surface; whilst the silver, which resists oxidation, ultimately remains upon the cupel. Heated with charcoal the protide and other oxides of lead are easily reduced to the metallic state. The protide may be converted to minimum, (red lead, though not of the best quality) by heating it to 570 degrees to 580 degrees, exposed to air. Carbonate of lead makes the most brilliant red lead. Carbonate of lead (white lead) of commerce is obtained by several processes. The silver containing lead, obtained by the concentration of silver by the dipping process, is fused in a shallow vessel, in a reverberatory furnace, with a current of air constantly passing over its surface; in this way the remaining lead is converted into litharge, and the silver is left in the metallic state. The litharge, which results is afterwards reduced by charcoal than many suppose, and that better results to British Columbia lead interests would come of a thorough understanding of the possibilities of refining the product of the lead smelters in the country than by sending it to the United States to be refined, whence in part it is returned to ported or shipped to England for the world's market, while if refined in Canada it would command the home market to the full extent of its needs and an surplus be exported at a better profit than the English exporters, who are but

Some Clothing is made to order, not made to fit. Shorey's Clothing is made to fit, not made to order. Every garment guaranteed. Sold only by the best dealers.

SUNSET MINERAL CLAIM

PROPERTY OF THE SUNSET COPPER CO., LIMITED. NOR-PERSONAL LIABILITY. Capital, \$2,100,000, in \$1.00 Shares. 500,000 Shares Placed in Treasury.

have given the following returns: 3 per cent, 3.4 per cent, 3.8 per cent, 4.3 per cent, 5.05 per cent, 5.3 per cent, 9.1 per cent, 9.3 per cent, 10.5 per cent, and 11.1 per cent. These are some of the typical assay returns. When one considers that 5 per cent is worth \$12 per ton, and when the enormous deposit is considered, the possibilities of the mine are great with judicious management and the latest method of treatment.

As far as development so far has been done, I do not think it difficult, to get an ore from 6 to 8 per cent in value. The only question comes, will it continue with depth? That is the risk that the investor always has to run, and which we have no means of ascertaining except from development work, and so far enough has not been done to prove the property.

The surface indications are certainly the largest I have ever seen, and it has a great future, if great depth can be proven. It is certainly worth developing and spending considerable money on.

As to the methods of treatment of the ore and the net profit returns, much might be said, but probably that which will give best returns is by concentrating and then smelting. This can only be proven by actual experiment, and should be done thoroughly before deciding on the purchase of any plant.

The above is respectfully submitted. (Signed) W. E. DEEKS.

Dr. Deeks spent the spring and summer examining and operating surrounding properties on Copper mountain, and no one is better able to judge of the potentialities of its mineral claims.

Block of shares offered at to cents nearly all sold. Apply personally or by wire for four days to SMITH CURTIS, Rossland, B. C.

LEAD SMELTING AND REFINING.

As a contribution to the knowledge of those interested in mining in British Columbia the writer quotes from recognized authorities, at any rate of a few years ago, what shows that neither the smelting, nor yet the more important refining of galena ores in Canada should be a difficulty or attended with great capital outlay or current expense, and, taking into account more recent improvements in both processes, it is beyond doubt that better and more profitable methods are now available than when my authorities wrote.

The reduction of galena upon a large scale is effected by heating and raking the crushed and concentrated ore, mixed with a little lime, in a reverberatory furnace; a large proportion of the sulphur is in this way driven off, and a mixture of oxide, sulphate and sulphide of lead obtained, the temperature is then raised so as to fuse this mixture, when the substances further react upon each other, and metallic lead separates from the mass. If it contains tin or antimony, it is further refined by fusing it in a shallow vessel, when those metals, being more easily oxidized than lead are removed from the surface. If the lead contains silver in such proportion as to render it worth separating, this is effected by dipping into the fused metal, during cooling, a large perforated iron ladle, whereby the lead is removed. The granular crystals are ladled out, and are nearly pure lead. About six tons of lead are melted at once. In the act of cooling the lead crystallizes in octahedra and is removed as described. The melted portion is thereby reduced, on an average to about seven hundred pounds, and consists of a very fusible alloy of lead and silver, in which the silver is in large proportion, and can be easily separated from the lead by other processes. The efficiency of this method may be judged by the fact that the average quantity of silver contained in the lead where this process is in operation is ten ounces to the ton. The time required for six tons, taken above as an example was two hours. The iron ladle employed held about one hundred pounds

middle men, can earn for the identical lead.

It seems to be a proper subject for the boards of trade of Kootenay to exhaustively consider. If it affords a bare margin of profit to refine lead in British Columbia it will be well worth inaugurating, for the general advantage will be great. Profits upon stock in a refinery will be of no consequence to those who will be ready to subscribe the capital, if it will now idle, or add to the net value of ore from mines now operating notwithstanding their disadvantages.

GEORGE K. MORTON. St. Thomas, Sept. 25, 1899.

Around the Yellowstone.

Mr. L. Levy has returned from a visit to the vicinity of Sheep Creek, one of the tributaries of the Salmon river, in the Nelson division. The principal property there is the Yellowstone group. The properties of the Yellowstone company are being developed on an extensive scale, and from the large quantities of high grade ore in sight, it is Mr. Levy's impression that it will make one of the large mines of the Kootenays.

He says that Messrs. P. A. Silverstone, H. Epstein and others have a promising group of claims located 1,800 feet from the Yellowstone properties. Late development work done on this group demonstrates that it has the same lead as the Yellowstone, and the ore near the surface is of a good grade.

Mr. Levy said a report was current that the Queen group, which adjoins the Yellowstone on the south, had been bonded by a Spokane syndicate for \$85,000. The owners are Mr. Turner and others of Nelson. Negotiations are in progress for the sale of the Noble Five group, adjoining the Yellowstone on the north.

The Big Duluth Mining company has a force at work on its group, and is putting in a camp so that operations may be conducted all winter.

Mr. E. N. Ouimet of this city, is operating the Republic group of properties. The showing on this group is excellent, and the intention is to put in a camp to keep up the development work during the winter. Besides this, prospectors are developing their properties, here and there and the whole section is very active.

Two Dollars THE EVENING STAR

Work on the Project Discontinued WILL PROBABLY

Shipment of Matte Value Nelson—Development Other News of District.

The Evening Star working Monday, and off. The reason for this is some misunderstanding composing the management for regret that the present work has shown reserves of ore should and west drifts, the tunnel are all for the present year, 1,000 feet to the smelter, been worked continuously and has been under slight intervals of cessation. There is every probability next meeting of the tions will be resumed.

Matte Still The Hall Mines smelted two cars of matte the Crow's Nest branch. The matte was valued at \$10,000.

PEND DORE Mr. Arthur Schneider's opinion of

Mr. Arthur Schneider, who is now a member of properties of in the southeastern Creek district, is in days. He has met operations in the and reports growing that section, which the front as a result extensive bodies of workings of the bank.

The new wagon road with the Bunke properties, has been a creditable piece of nearly five miles and considerable skill was easy grade along the canyon of the Pend. If men is now erect the 30-ton mill, which is tall. The right tramway from the being cleared. The creek, has No. 1 tunnel, in which payable ore has been expected that the mine in the course of two the meantime some work will be carried of the mill whistle blow Messrs. Lang and the Zealandia claims are erecting preparations for the winter.

Negotiations for the group to British Columbia. Adie, who have developed a go the Bright Future group. Placer miners also Mr. Schneider says, season, the diggings gou that for a number Messrs. Adie, who there is a good deal things are expected ver showings on the

The Pend d'Oreille sons, has proved a hunters and fishermen says the trout fishing very uncertain, which which has just of prove a failure, owing of Uncle Sam's Indian ed most of the deer Prof. Henry Mon report on the Pug p Messrs. Adie, who came in from that reports satisfactory and tramway.

Ten Miles of The Hall Mines, in just closed a contract for a new shaft 50,000 feet in length, grade steel, and has nearly 70 tons, and It is to replace the specially manufactured, and is being Dominion Wire Rod of Montreal, representing in this province. T cable used at the mine an average of a year were manufactured Rope company.

The shaft of the been pumped out resumed. If the along without just, while pump the shaft in the shaft until reached and the then be put to work.

RED LIT Mackintosh Syndicate Bond

It is stated that effected between date and Messrs.