

GRAND FORKS INTELLIGENCE

DEVELOPMENT WORK ON PROPERTIES IN CAMP MCKINNEY.

Project For Building a Railway From Grand Forks to Republic—Plan of Old Ironsides Townsite.

Grand Forks, Nov. 8.—(Special.)—E. G. Warren, superintendent of the Kamloops, Camp McKinney, was here today en route to Rossland. He stated that the main working shaft is down nearly 80 feet. The ledge, it is expected, will be encountered at a depth of 100 feet. A crosscut will be driven from the top of the shaft by a series of open cuts, and several shafts including one of 50 feet. It varies in width in the main shaft from three to five feet. A 30-horse power boiler and hoist has just been ordered. A plant will be installed as soon as the development opens up enough ore to supply a 10-stamp mill. Although high assays have been obtained, the average values are about \$15 per ton.

Mr. Warren added that the Waterloo is looking well. The work of sinking another 100 feet to the 200-foot level will be commenced shortly. The five-stamp mill is working day and night and the results of the clean-up will be commenced shortly. The capacity of the plant will be doubled. The Granite and Banner is turning out a \$300 brick weekly. Development work is being pushed on an extensive scale. The camp is very lively just now. A 40-room hotel is under construction.

Tracklaying on the C. P. R. spur from Eholt to Phoenix was commenced yesterday. Three-quarters of a mile of track was laid before dark. Phoenix will be reached on Monday.

C. M. Keep of Fort Steele, has arrived here and will operate in the Boundary.

E. M. Aldrich, who arrived today from Summit camp, reports that the ledge on the Maple Leaf of the Rathmullen group was encountered yesterday in the main working shaft at a depth of 160 feet. This strike occurred at the point indicated by Mr. O'Toole, the president, and Mr. Aldrich, who recently installed a compressor there. The ledge in the drift running from the 78-foot level is nearly 30 feet wide. Mr. Aldrich brought out several samples of ore for assay purposes.

Rumor has lately connected the name of Jay P. Graves with a project for the construction of a railway from Grand Forks to Republic. "If nobody else undertakes it, we are prepared to build the road next year," said Mr. Graves to your correspondent. "No doubt our smelter now building at Grand Forks would receive considerable tonnage from Republic, and other camps on the Reservation. The railway, of course, would be standard gauge, and the rates would not be excessive. The smelter here, on account of its advantageous location, should be able to treat ore as cheaply as our competitors."

It is noteworthy that Clarence J. McCuaig, the Montreal mining operator, who successfully floated the Payne, War Eagle, and Republic mines in Eastern Canada, is equally impressed with the necessity of establishing railway communication between the two points, and may perhaps build the road himself. A railway would be a factor in the realization of other enterprises he has in contemplation.

On his way from Republic, Mr. McCuaig had this to say to your correspondent: "If President Hill, of the Great Northern, who has held a charter for two years authorizing the building of a line from Republic to the International boundary, will not give assurance at once that he intends to go ahead without delay, I will undertake with my associates to build the road next summer myself. Connection will be made at the frontier with a five-mile railway from Grand Forks. In this relation, I am considering a project for the establishment of a matting plant at Republic mines, and a large quantity of the higher grade ore of the Republic camp would naturally seek the smelter here. The route between the two places presents no difficulties from an engineering standpoint. The watergrade of the Kettle river can be followed nearly all the way."

The plan of the Old Ironsides townsite at Phoenix was sent to the Registrar's office yesterday, and within a few days lots will be offered for sale at Greenwood, Phoenix, Grand Forks, Rossland and Spokane. The employees of the various mining companies of which Jay P. Graves is the general manager, yesterday in conjunction with business men already doing business on the townsite location reserved 60 lots. The proportion taken by the miners was equivalent to about one-third. Inside lots will be offered for \$500 and outside lots will be quoted at an advance of \$100 or more.

Jay P. Graves returned yesterday from Phoenix, the main mining town in Greenwood camp. Said he: "We are just completing a new shaft house covering the hoist just installed. The hoist is capable of raising 200 tons a day from a depth of 500 feet. The shaft in the Old Ironsides is 325 feet deep, and we are sinking the 400-foot level. The granite and the 300-foot level is in progress on the 200- and 300-foot levels of the Old Ironsides, and the Granby smelter's claim Victoria. In the Knob Hill we are sinking a new No. 3 shaft 450 feet. The tunnel, which is a distance of 335 feet is also being extended. A winze being sunk in the tunnel is now down 67 feet. The ore in the Knob Hill is looking better than ever. The same is true of the southeast drift on the Old Ironsides. The railway spur to both properties only await the rails, which will be laid within a week. In grading the C. P. R. construction gang uncovered the water bodies, one being on the Fourth of July, the other on the Victoria. Both are owned by the Granby Smelter company."

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Interview With the Manager of the New Smelter Company.

Grand Forks, Nov. 10.—(Special.)—Mr. E. T. Bradford, general manager of the Southern Smelting company of Denver, Col., who will have charge of the new smelter here, in speaking to your representative today, said: "Our reduction works can treat any kind of ores but lead and zinc. We cannot handle these varieties on account of volatilization. The Zoder smelter possesses one or two radical features that are not found in the ordinary smelter. The main feature is that we use a hot instead of a cold blast, and by means of a mechanical contrivance, utilize the noxious gases. Our

process where the ores possess an abundance of sulphur, makes them really self-fluxing. We can get along with from 1-2 to 5 per cent of coke as compared with the 20 per cent used in the ordinary commercial smelters. A tremendous heat is generated, which rapidly accomplishes the work. By an ingenious contrivance we conduct the smoke through a water tank, thus eliminating all values that might otherwise be volatilized, and the smoke emerges practically free from all impurities. This is an advantage that the entire community will appreciate. Then again, the Loder system does away with all crushing and preliminary roasting.

"The best proof of the efficiency of our process is the fact that the Guggenheimer smelter at Pueblo, requiring a good fuel, uses the waste of our Ward, Col. reduction works, paying the freight to Pueblo, making the metallic values. The process was invented by Mr. Loder in 1896, and is covered by patents in Canada, the United States, and all European countries. We possess the rights for British Columbia, several of the adjoining American states. Two hundred-ton plants of this description are in successful operation at Leadville, and Ward, Col., and Atlanta, Georgia, and similar ones will shortly be installed in Arizona and Old Mexico.

"Mr. Gagar will have plans of the new smelter here completed in ten days, and an order for the construction of the plant, which will be completed within 3-12 months, will be given in Denver immediately. I expect the plant will be in operation at the outside before the 1st of March.

"The smelter site, both from the point of view of location, and water supply, is simply ideal, and its equal I have never seen.

"This trip has been a revelation to me. I am simply amazed at the character of the Boundary ores shown me. This is destined to be one of the greatest mining regions on the continent, if the reports I hear respecting the enormous width of the lodes are true. The four or five-foot lodes in Colorado, of which we are wont to enthuse about, look very small when compared with the big lodes of the Boundary country."

Mr. Bradford, who will return here shortly, left here this afternoon with Mr. Gagar for Spokane.

Grand Forks, Nov. 13.—(Special.)—The construction of a new city hall and first station at a cost of \$3,500 will be commenced shortly.

There is a movement on foot to erect in Grand Forks a \$100,000 hospital, which will also be available for the employes on the Klumb and Western railway.

Sinking in a winze on the Phil Sheridan of the Earthquake group, on the north fork of the Kettle river, is being continued with two shifts, and the workings are all in ore. Superintendent Evans claims he has the same ledge as the Golden Eagle, a rich adjoining property. A surface strike of six feet of good ore is reported to have just been made on the Mystery group in the Burnt Basin. The find was made on the lower portion of the claim, the ledge running into a way side of the mountain in such a way that a short tunnel can tap it at a depth of 700 feet. The values are in gold.

A. W. Ross of Vancouver, B. C., inspector for the mainland board of fire underwriters, was here this week inspecting the various structures, and examining the system of fire protection with a view to the reduction and re-arrangement of the insurance rates.

Recent visitors to Republic were W. Godfrey, manager of the Bank of British North America, Vancouver; W. F. Oliver, manager of the same bank at Rossland; J. B. Johnson and A. E. Palmer of Rossland. They inspected the Mountain Lion property. Mr. Palmer represents the Canadian element in the Mountain Lion, he having conducted the negotiations last spring which resulted in the purchase by Canadians of 300,000 shares, at \$1 per share. The visitors were greatly pleased with the pay chute in the property, which is now 550 feet long, and from 10 to 30 feet wide. The Mountain Lion mill will begin operation in January, when its bullion product is expected to reach \$2,000 a day.

The bottom of the 27-foot shaft in the Ivanhoe on Hardy mountain, a few miles from Grand Forks, is in copper ore. The property is owned by Henry Hoffman and Chris Tobiasen.

The directors of the company operating the Cannon Road group of claims on the west shore of Christiansa lake, have decided to install a pumping and hoisting plant.

Sam Jarrell has returned from his two claims, the Reader and Carrie L., 125 miles up the Kettle river. He reports that he has opened up a 14-foot ledge of copper ore.

Harry Humphreys, allotting agent of the land on the Colville reservation, announces that the work will be completed within two months.

"Since the railway opened up a ledge on the Hartford group of claims in Wallington camp, under bond to H. M. Gager of the Grand Forks smelter, and Montreal parties, work has been steadily in progress and four open cuts have been run. Two of them are each 60 feet long and six feet deep, while the others have an average length of 25 feet. The vein is three feet wide, and gives high values in copper. The development work will be continued all winter.

Henry Ellis reports a good showing on the Shipley, which adjoins the King Solomon camp. He has uncovered a big lead and has taken out some good looking copper ore. On the Boody Cash in Wallington camp, he made an especially good showing, assays taken from the bottom of a 30-foot shaft having run as high as \$91 in all values. The lead is a large one, its exact size having not yet been determined, and as the property is located not far from one of the spur lines of the Grand Forks smelter, the transportation of the ore to a smelter will be an easy matter.

The clean-up from the five-stamp mill on the Granite and Banner in Camp McKinney for the week ending Tuesday was a gold brick valued at \$633. His result was obtained from 37 tons of ore, the plant was idle for a day owing to a slight accident to the injector.

The crosscut from the 30-foot level has shown the ledge to be 40 feet wide. The sinking of the shaft is also being continued.

The shaft in the Kitty W. on Pathfinder mountain, north fork of Kettle river, has just penetrated the iron capping and came into solid ore at a depth of 15

feet. Work will be continued all winter and crosscut will be driven later on from the 100-foot level.

Jay P. Graves has returned from a trip of inspection to the City of Paris and Majestic properties in Central camp, 11 miles from Grand Forks.

"I am much pleased with the progress of development work," said Mr. Graves to your correspondent. "About 60 men are employed. We are cutting a station in the City of Paris, in the tunnel about 30 feet from the mouth of the tunnel. The hoist recently installed will be in operation on Monday. Sinking is in progress at this station. It will be continued at once until an additional depth of 100 feet is gained, before crosscutting is commenced. At the station the tunnel is 250 feet vertically from the surface. Over 3,000 feet of work has been done on this level in the City of Paris, and an upraise to the surface has just been completed, ensuring good ventilation. A second upraise will be made from the adjoining connecting workings in the City of Lincoln.

"We will shortly commence stoping from the 100-foot level of the City of Paris preparatory to hauling the ore to Grand Forks early in the new year. The Majestic tunnel is in 400 feet, and very good ore was encountered in the last half of the workings. The property bids fair to become a good mine. The plant which serves for the two groups, comprises a Rand duplex compressor, two 60-horse power boilers, and one 35-horse power boiler. We erected accommodations for the men; like-wise stables. A well stocked store, conducted by private enterprise, is doing business there. The new wagon road from Grand Forks is in good condition. Over it during the winter months will be hauled from 2,000 to 5,000 tons of ore. There are 1,000 tons of shipping ore on the City of Paris dump. The City of Paris group comprises five claims, and the Majestic group four claims. The principal values are in gold, copper and silver. Many assays of the City of Paris ore yielded one oz. of gold, two to three per cent copper, and from 20 to 30 oz. of silver per ton."

Princeton, the centre of the Similkameen district, is to have a newspaper in the course of the next 60 or 40 days to be called the Similkameen Star. It will be owned and controlled by a company of Greenwood men and is understood to be an offshoot of the Greenwood Miner. Mr. James Anderson, well known in Kootenay and Yale districts, will have the management for the first six months. The paper starts with every prospect of financial success.

Dr. Bell of the geological survey, Ottawa, was in the city this week accompanied by A. W. Ross of Columbia. Dr. Bell has just returned from Great Slave lake in the barren lands of Canada, where he spent the summer in obtaining geological and other data. He says that Great Slave lake is the world, and is but slightly less than Lake Superior in area. It is the largest lake in the world, and is but slightly less than Lake Superior in area. It is the largest lake in the world, and is but slightly less than Lake Superior in area.

Work has been resumed on the First York, which lies between the towns of Republic and North Republic. The showing is good, and Newt. Campbell, the general manager, has great faith in the vein.

While here, it is understood, Manager Barinds has decided to at once resume work on the Golden Harvest group, which lies a few miles south of town. Mr. Barinds has made daily visits to the claims since his arrival here, which consist of a group of six, with a great deal of development work done on them, one tunnel having been run 400 feet. The vein is the strongest in the camp, and is highly spoken of.

Republic, Nov. 9.—(Special.)—A carload of ore was shipped from the Quilp a few days ago.

The Quilp's winze is now down 55 feet. They have a great deal of water to contend with.

A gentleman was here for some time, and in a very quiet way he gathered samples from the various mines with the intention of testing them. The samples were not small, either, as he shipped 22 tons to the outside. It is not known who he represents, but he did his work most effectively and quietly.

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The Morning Glory is running the tunnel and drift, and they seem satisfied with results.

On account of delayed machinery and the erecting of mills, some miners are being laid off.

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As an evidence of the approaching winter, the geologists and hillside are dotted with miners' and prospector's cabins, who are coming in here to winter. The prospectors are pretty well driven out of the hills by the snow, and it is wonderful to see how quickly the cabins are going up on all sides. They are all board affairs.

We had plenty of mist, rain and mud the past few days, with only a rare glimpse of the sun.

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The electric wires are being strung along Clark avenue, and when completed it gets a black as ink in this camp, and every man is compelled to carry a lantern.

News from King's camp, on the south half, continues encouraging, and they are developing a good many properties there. It is claimed it will be a big gold camp in the near future.

Considerable development work is being done in the country north of the Tom Thumb. About one mile north of Nelson has a 20-foot shaft on a fine looking ledge, and the ground adjoining runs a crosscut, cutting their 30-foot ledge. As yet the values are not very high, but high surface values are rarely obtained in the Republic district.

Major Ben King's burg is rapidly improving.

The Mountain Lion mill, as regards frame work and machinery, is practically built. Foundations are laid for the stamps, and other necessary work about completed. Work in the mine is progressing as usual.

Sergeant and Durant have a crew of men sinking a shaft on the Mellaine at Myers creek. A general surface assay of 15 feet goes \$6.35. A shaft has been commenced and winter quarters erected. They will work all winter. The claim is about half a mile from the Wisconsin, which is a rich mine.

SEARGANT AND DURANT.

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The designing of the new mill for the Republic has begun, and it will be finished with all possible speed. The mill will give employment to a large number of men during its construction. Good progress is being made in the No. 4 tunnel, and the ore body and the assays are better than any heretofore encountered in the mine. An upraise has been started from the Republic No. 4 tunnel to connect with the winze, which will assure complete ventilation.

Recent reports from the Republic property, of an enclosure of nearly 30 miles, systematically developing the time ago the management, known as being exceptional, as well as very competitive, and that it just state plan of development it might be brought to a condition with the least. Since then a large amount has been done in the way of veins at considerable depth. It has been necessary to pay out about 8,000 tons of pay ore, and a large amount of ground has been made a fact it will be realized that is in a position to supply of pay ore. The management, however, that it would be of interests of the company the treatment of the ore, the treatment are perfected for its shipment, and does not stalling a plant until it upon what is the best method. It still remains to be a stamp mill and concentrate economical chemical process. Experiments are conducted with this end in view what selection is made stated that in the near future will be definitely set work will be at once commenced. The management of the company has ample funds to place the Tamarac smelter on a basis, as well as nearly every share.

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THE SIMILKAMEEN.

Mr. Smith Curtis Tells of Other Matters.

Mr. Smith Curtis, in special trip to the Similkameen yesterday said: "The hills were many locations were made mountain, Kennedy mountain, opposite side of the river, mountain, also along the Boulder creek and Otter creek. Samples of ore shown a number of placer claims on Granite creek and the river, and these were open this season. In many cases of a prospecting nature. Prove the value of the ground that the results were in gratifying, the gravel given from 20 to 25 cents per conditions to the plants are as to do the work more efficiently. I found the Sunset mine had been represented to E. Decks in his report and many. When I arrived the mine a further distance of a total depth of nearly 60 material being taken out with values running from 50 cent copper and from \$3 and silver, giving total \$25 to \$40. When the 10 reached a crosscut with the mine the width of the ore may judge from the surface

CUSTOMER MILL FOR REPUBLIC

IT WILL BE OF GREAT BENEFIT TO THE CAMP.

A Strike Has Been Made on the Owl Group at Myers Creek—The Hit or Miss Shaft.

Republic, Nov. 5.—(Special.)—The customers mill for Republic has now settled down to a brazen fact. Manager Lansing, of the Republic Reduction company, has let a contract for the office building of the Republic Reduction company, and work will begin immediately. The plans for the mill building are completed, and it is expected bids will be asked for next week. The site is a perfect one, and evidently all plans connected with the mill and handling of ores are as perfect as modern ingenuity can make them. Mine owners and prospectors are highly elated over the fact of the mill being a certainty, as it will add new life to the hills and hillsides surrounding Republic, and when it is under headway there will be no excuse for idle mines in the neighborhood.

From Myers creek comes the news of good, unusually good, strikes on the Owl group of four claims, owned by Summers, Keek & McBride. The shafts on the different claims are down eight, nine and ten feet respectively, sinking on very level ledges. They are running all the men they conveniently can at present.

Superintendent Summers went out today to determine whether it is advisable to increase the force, the news being so encouraging.

Major Ben Kingsbury, one of the large shareholders of the Republic mine, has been ill since his arrival in camp last week, but today he is rather improving.

The Hit or Miss shaft is down 100 feet, and they are now awaiting the delayed arrival of their whim, when operations will commence again.

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COLUMBIA CITY NEWS.

Building Operations Active—Some of the Structures Going Up.

Columbia, Nov. 8.—(Special.)—Of late this rising city of the Boundary country has been advancing by leaps and bounds, though happily there is no boom, and the citizens are building out of their own resources, and not on borrowed capital. Mr. J. C. Sullivan, C. E., assistant to Mr. W. F. Tye, was here yesterday and let the contract for a new station building, to be finished inside of three weeks. The present buildings have proved utterly inadequate. All the switches are full of freight cars, and the warehouse is also filled up to the gable. Verily the Boundary country is already proving an embarrassment to the C. P. R.

Mr. G. C. Buchanan of Kaslo has secured Stout's lumber mill, on the north fork of the Kettle river, and also sufficient ground for a lumber yard near the station. It appears that so far from having control of all the lumber mills in the district, Mr. Buchanan's company will have to face an active competition from at least two local mills. Under these conditions the price of lumber is not likely to be raised.

Mr. L. Monier of Cascade has bought three lots in the neighborhood of the station. Upon these he will build a bonded warehouse, making Columbia the headquarters for his extensive wholesale business.

Mr. Henry White, the well known mining operator, is to build a very complete residence on Columbia street, in a very picturesque situation on the banks of the Kettle river. Mr. White has the Banner of Franklin camp, under bond, and has a double shift driving a tunnel, which should cut the vein when 200 feet in.

Messrs. Smith & Travis, contractors, having almost completed the 70-room addition to Hotel Escalet, intend to build three residences in the west end of the city. There is no better investment than a house in Columbia today. Everything is in demand, and at a rental that will pay 15 to 25 per cent upon the investment.

Mr. William Wiseman is also building a snug house for himself and family. By far the most ambitious project is, however, one which emanated from the Rev. R. W. Trotter. He is at present raising subscriptions for the purpose of building a very fine Baptist church. His plans, including other features. He desires that the basement be set apart and furnished as a non-sectarian club, having many of the features of a Y. M. C. A. branch, but on somewhat broader lines. There will be a gymnasium, reading, smoking and bath rooms, as well as a bowling alley and kitchen. Any law-abiding citizen is to be eligible to membership, and it is hoped that the young men of the city will terminate at the front door of Mr. Trotter's club. A particularly meritorious part of the scheme is that which provides for an employment bureau, through which young men from the east may learn of something to which they may turn their hands without loss of time. This alone should decide many who are on the move to come to Columbia, as in several other towns young men have to hang around doing nothing until their scanty means are almost exhausted before finding the work they so ardently long for, but cannot secure owing to the want of a little experienced advice from some one who knows the country. Dr. Trotter has already contributed 500 volumes toward the library. Citizens of all denominations are contributing freely, and building will be begun during the present week.

Mr. Frank E. Smith, mining correspondent of the Toronto World, passed through Columbia today on his way to Republic. He was much impressed by the progress the city has made, since he was here last year. Dr. Bell, assistant director of the geological survey, is staying at Hotel Escalet. He will visit the camps to the west here yesterday on the way from Republic to Rossland. Mr. Leckie and friends have a bond on the Yankee Boy and Girl properties on Hardy mountain. The bond is for \$25,000, and that it will be taken up is almost a foregone conclusion, as the properties have undoubted merit. There is a narrow selvage of high grade telluride ore in addition to the heavy vein of low grade shipping ore, which assays \$31 in gold to the ton.

The work of developing the British Crown group is making good progress. The tunnel has now been driven in for a distance of 40 feet. The intention is to put up cabins so that work can be carried on all winter.

THE KEREMEOS BRIDGE.