

MINES AND MINING

What is Going on in... Shaft, Drift, Stope, Winze, Etc., Etc.

FROM THE YUKON.

General Manager Bernard Macdonald Returns From the Frozen North.

Bernard Macdonald returned Thursday morning from a visit to the White Pass, where he has been for the past few weeks in the interest of the British American corporation.

Speaking of the mineral belt referred to by Mr. Kirby in his speech at the Lord Minto banquet as existing along the whole slope of the Rockies and extending down into Central and South America, he said that the present mineral development of this province had touched a fringe to the south along the border line of the United States and had opened a similar narrow belt to the north along the borders of Alaska.

It is to be operated by a strong Montreal syndicate. Mr. M. S. Logan has returned from an extended visit to Montreal, where he has been putting through a mining deal.

The attention of Mr. Macdonald was drawn to the fact that there had been six out of eight claims of the Hoskins group in East Kootenay were jumped during his absence.

A BIG CONSOLIDATION.

Fifteen or Twenty Millions Involved in the Deal.

At Montreal a few days since Mr. S. H. C. Graves was interviewed and made some important revelations concerning the plans of the Miner-Graves syndicate.

The next is that, following this consolidation, steps will be taken to build a refinery at or near Grand Forks, which will save at least four and one-half cents in every pound of copper smelted.

Mr. Miner says that although their furnace, which was started the other day, the capacity is now 200 tons, and when the second furnace starts next week the daily capacity of the Granby will be not less than 600 tons of ore daily.

"What is the value of the ore you are now treating?" Mr. Miner was asked. "I am not at liberty to answer that question, being in the position of a business man who does not care to publish his daily profits to the world. I may say, however, that when ore reports are published they will be found eminently satisfactory to our shareholders. We are not sorting the ore, and there is a good profit out of every ton that is going through the smelter. I will go further and say that we have been successful in demonstrating the fact that ore as low as \$5 can be treated at a profit."

ON CHEAP SMELTING.

What the Victoria Mining Record Has to Say About It.

Appropos of cheap smelting in Boundary creek it is clear that the copper ores of this district are susceptible of treatment at a much lower cost than those of Rossland. There is more copper in them in the first place. The chief part of the values from a number of the Boundary properties is in copper. In addition to this there is enough lime in the ores to make them practically self-fluxing. There is a steady flow of lime rock from Kootenay lake to the Trail smelter every day of the year for fluxing purposes.

pyrites, averaged about 9 per cent, used to sell his ore at the smelter at great advantage and was in the habit of saying that the smelter charge was sprinkled with his ore out of a pepper pot. Actual experiment with the Boundary Creek ore at the Trail smelter has demonstrated the fact that nearly twice the amount of ore may be run through the furnace in the same time required to treat the Trail creek ore. The cost of fluxes is thus done away with to a large extent, and the labor expense also diminished. It does not follow from this that the cost of smelting in the Boundary will be reduced below \$3.50 a ton. But it must be remembered that \$3.50 a ton is not the real cost of smelting copper ore. There is a reduction made of 1.3-10 per cent of the copper in the ore which the smelter appropriates to cover cost of shipping the matte to refineries, bullion brokerage and so forth. Why this charge, necessary and legitimate as it is, should be expressed in a percentage of the value of the ore and not reduced to dollars and cents is one of the hermetic mysteries of smelting. It may shrewdly be expected that it originated in a device to cover from the miners eyes the fact that he was paying more for the treatment of his ore than he justly ought. But however it originated, the keen competition for copper ores has reduced it to a minimum.

THE JUNO GROUP.

It is to be operated by a strong Montreal syndicate.

Mr. M. S. Logan has returned from an extended visit to Montreal, where he has been putting through a mining deal. This was the promoting of the Juno company, which owns and operates the Juno group in the Nelson division, four and a half miles south of Nelson, on Morning mountain. This property, which consists of three claims, has been taken over by a syndicate of Montreal capitalists. The property has been under bond to Mr. Logan since January 1st, and the syndicate has taken it up and made all the payments upon the bond, besides providing ample funds for development purposes. A company has been organized with a capital of \$625,000 and a provincial charter obtained. The officers and directors are as follows: F. W. Fisher, president; W. F. Borland, vice-president; F. C. Hirsch, secretary; Louis Simpson, James Marshall, A. A. Logan, G. F. Payne, A. E. Harvey and M. S. Logan. The latter is the resident director. Work on the property will be commenced this week and will be kept up continuously. The leads in the Juno property are quartz, carrying free milling gold. There are six different leads. They range in width from two to eight feet. The leads have been opened on the surface by shallow cuttings and shafts.

Collecting a Mineral Exhibit.

Messrs. W. L. Orde, A. G. White and others are engaged in making a collection of ores for exhibition at the Spokane fair. The intention is to make the collection one that will be characteristic of the Rossland camp. The idea is to make the display so distinctive and so good that it will attract attention by its completeness and that the camp is coming into increased favor, and that the country is on the eve of another mining revival, the more advertising done the better. The Spokane exposition offers fine advantages for advertising the mineral resources here as well as the city of Rossland.

A FIND ON THE DUNDEE.

A Second Rich Lead of Ore Has Been Discovered.

Mr. R. A. O. Hobbes, secretary of the Dundee Mining company, reports that an important find has been made. The find has been made on the claims of the company at a point north of the ledge which the company has had hitherto operated. The new lead has been traced for a length of 2,000 feet and has been opened by cuts and shallow shafts. Samples of ore have been assayed from these shafts and give returns of from \$10 to \$128 to the ton in gold and silver. The lead is so strong and so wide and the values are so high that there is good reason for the belief that it is richer than the one on which operations have hitherto been continued.

In the Nelson Division.

Mr. J. R. Cranston has returned from a visit to the Bornte Bank, which is located near Nelson. In the bottom of the shaft, which is 85 feet deep, a find of free gold was made the other day. It was in white quartz. On the Juno, which is near the Bornte Bank, work is to be resumed on Saturday with a full force of men. The Athabasca, which is north of the Bornte Bank, will make a wonderful cleanup this month. It is thought it will be larger than any hitherto made. On the Harvey Joy, which has the same leads and which adjoins the Bornte, some fine looking ore has been found. On the Francis J a tunnel is being driven to tap the shaft, which is 40 feet deep. At the 40-foot level the ore averages \$38 to the ton. There are a great many prospectors in that country, and some fine finds are being made.

The Tamarac Will Ship.

It is the intention of the management of the Tamarac to commence the shipping of the ore on its dumps as soon as the tramway is finished. There are between 2,000 and 3,000 tons on the dumps which can be shipped at any time. The ore is of a good grade and will net a considerable profit.

Mr. William Clague of the Anaconda (Mont.) Standard, is in the city on a visit to his brother.

RECORDS BROKEN.

Immense Output From the Camp—Future Prospects.

There is the usual scene of activity upon Red Mountain and the various mines on the Rossland slope of the hill and in the gulch facing the Black Bear are preparing for greatly increased shipments in the near future. It is probable that within the next few weeks that the number of shippers will be augmented by both the War Eagle and the Rossland Great Western. In addition to these there are big deals pending which may mean a considerable addition to the output of the camp. The revival of the stock market in the east, the lull in the hostilities in China and closing scenes of the Boer war are all having their due effect upon the mines and investors of the camp and there is every prospect of the beginning of an exceedingly prosperous time. As far as the actual work in the mines in the camp, although there are a good many items of interest as they are all upon the usual lines mapped out by the respective managements there is nothing of any especial noteworthy character that calls for separate mention. The high assays of \$126 in gold obtained from the ore from the New Star Elmo is encouraging.

The Output.

After a lull of upwards of seven months the Rossland output has again advanced a stride. The shipments of the week break the record for the season made last February with 6,206 tons by over 700 tons. The output for the week just past is 6,930 tons on a close estimate.

This was made up of a shipment from the Le Roi, which is more than a thousand tons below its record of the summer and by an output from the Centre Star of over 2,200 tons. Besides these there are other but minor contributions from mines which will yet estimate their weekly output by the thousands. As the Le Roi can and will within the next few weeks, as soon as all the necessary arrangements are made, increase her output to something very closely approximating 1,000 tons a day and as the Centre Star can also considerably increase its output as the time goes on, it will be seen that from the sources along that the output is likely to approach 9,000 tons weekly. When in addition to this is calculated the output of the War Eagle, shortly to resume shipments; that of the Le Roi No. 2 and the Rossland Great Western, which should make its initial shipment this month and whose commencing output is estimated by the report of the general manager to the directorate at no less than 4,000 tons weekly, taken together, when all these sources are taken together with the Iron Mask, Giant, Evening Star and I. X. L., it will be seen that 10,000 tons weekly output in the near future is an estimate well within the mark.

Appended is a list of the shipments of the week and year to date:

Table with columns: Week-Tons, Year-Tons. Rows include Le Roi, War Eagle, Centre Star, Iron Mask, Le Roi No. 2, I. X. L., Evening Star, Monte Christo, Iron Colt, Spitzee, and Total.

Le Roi.—On the surface of the mine the work is in connection with the introduction of the machinery which is to save the effect of greatly reducing the cost of mining to a figure as yet unprecedented in this camp. The foundations of the standards of the tramway have been cut and laid and the erection will be proceeded with this week, it is probable. The headworks of the big hoist are still in process of assembly, and the setting up of the big rock crusher will be the next of the machinery to go in. A large 300-gallon water tank has been erected on the hill side above the hoist, which will be connected by piping laid through the power compartment of the big shaft and brought and connected with the surface on the Black Bear through the tunnel.

This will afford fire protection to the expensive plant constructed. The exact cost of the machinery is estimated at 150 pounds of head. The accident at the new shaft beyond interfering with the deepening of the shaft for the time being, is doing little to obstruct the work, as the eastern compartment still remains for the shipment of timber and the conveyance of the men to their work. All the ore is at present brought up out of the shaft to the surface by the main drift, which is still proceeding on the old lines in the same places. The lower levels are being pushed and connections are generally being made between the various ore bodies.

Le Roi No. 2.—Superintendent Angus is taking advantage of the enforced delay in the shipments from the group of properties over which he exercises control, to get well acquainted with all the ramifications of his ore shoots and drifts. The work is still proceeding on the same lines as in the main, where the shaft following the downward dip of the outcrop is being continued. In the Josie some ore is being exported from the Poorman stope. Connection is being made upwards all along the depth of this pay shoot. The chief development work in progress is that connected with the enlarging of the two compartments of the shaft to three compartments, so as to permit the introduction of the air and power pipes to the lower level beyond the 100, where a surface tunnel connects. On the No. 1 the stope on the intermediate level below the fourth is being opened out and a little ore is being extracted.

Kootenay Mines.—The work in the 1,000-foot tunnel is progressing, the ore body being drifted upon both to the east and to the west. On the sixth level, the crosscut is being run to the north, but is not as yet near its completion. The winze and raise between completion and sixth levels are nearing completion and should be connected through shortly. There has been some trouble in connection with the foundations of the compressor, but it is probable that this has now been surmounted. The shipment of

ore from this mine is being delayed until such time as it can be seen whether arrangements can be made with the smelter at Trail which are still pending.

Centre Star.—On the surface of the mine there is still much work to be done in connection with the extension of the timber yard, the opening of a temporary road to the level of the city and the erection of the new timber framing shed, the foundations of which are now being laid. The finishing strokes are being placed on the air compressor, the new flooring of which has been laid. Underground the No. 1 level has been extended to the end line and a connection made between it and the level below, where the principal stoping is now in progress. West of the shaft, the drifts are being extended east and west. On the latter drift the big fault encountered has been cut through and the crosscut to the north for the displaced body of ore has encountered the vein about 50 feet to the north. The ledge is now to be drifted upon. In the stope only three machines have been employed, each breaking down some 100 tons of ore daily. The shaft has been extended downwards and is now some 125 feet below the fourth level. It is the intention to carry this down for 50 feet further, making a depth of 600 feet from the shaft collar before opening the fifth level.

War Eagle.—No further preparation has been made with reference to the tramway, without the completion of which the mine management are reluctant to begin the shipment of ore. It is stated, however, that the shipping of ore through the old tunnel used for that purpose is seriously considered. A new job derrick similar to that upon the dump at the Centre Star is about to be set up on the timber yard for the handling of heavy balks and machinery. It is probable that the shipments of ore will not be delayed more than a few weeks longer. The shaft is now down to the eighth level and is being sunk below it. The level is 1,057 feet below the collar of the shaft. The station has been partly cut. On the seventh level the south vein is being drifted upon east and west, the intermediate ore body to the east and the north vein to the west. On the sixth level a crosscut is being run to the north. Beyond this there is no other work in hand in the mine.

Giant.—The Giant sent two carloads of ore (45 tons) to the Northport smelter during the week, and two more (45 tons) are loaded and standing on the track ready to go and will be sent down this (Sunday) morning. This would make the output 90 tons for the week. An ore which is being shipped is of a good grade and the returns are sufficient to keep the mine in operation. There is an abundance of ore in sight in the upper ledge, sufficient for an output of 100 tons per week or more for several months. The intention is to keep up the development work so as to have reserves of ore after that which is now in sight has been worked out. The ledge is from 12 to 15 feet wide and the ore shoot is about 200 feet in length. It is to be kept up in development now that it is longer. Two teams are now engaged in hauling the ore. Eight men are employed.

New Star Elmo.—Ore of a high grade is being encountered in the south drift of the St. Elmo. A recent assay gave a return of \$126 in gold and silver alone. As the drift progresses the values increase. The ore body continues strong, being about four feet in width with pay ore nearly across the ledge. The drift is now in for a distance of 235 feet. The working face of this drift is just 1,000 feet from the main tunnel. Crosscutting continues in the north crosscut and stringers of ore are constantly being cut. The St. Elmo never looked better than at present and the management feels greatly encouraged.

Iron Colt.—Drifting along the North Star ledge is in progress with satisfactory results. Rossland Great Western.—The work on the surface of the Nickel Plate is completed with the exception of the installation of the grizzlies for the present, although in a short time the foundations for the new 40-drill electrical compressor which are already excavated will be begun. Below the work is confined to the opening up of the ore bodies on the sixth level and the connections of others on the second. The hoist has now been roofed in ready for the winter and a coat of paint is all that is required for completion.

California.—Work is progressing along the usual lines in this property. The crosscut from the main tunnel is in for a distance of 75 feet. The crosscut from the drift on the 200-foot level is in for a distance of 25 feet, while the main drift is in 150 feet. The outlook is encouraging. Mr. W. Yolen Williams, general manager of the California, as well as the other properties of the Miner-Graves syndicate, is in the city looking after the operations on the California.

Velvet.—On the Velvet 300 feet drifts have been driven on the 300-foot level. The main adit was driven in for a distance of 550 feet and a crosscut from its end is now in 25 feet. Work on the foundation for the compressor plant is in progress.

Evening Star.—Superintendent Chamberlain has returned from a visit to California. The faces of the north and south drifts on the 200-foot level are 137 feet apart and the property is looking very well.

Big Four.—Considerable work has been done on the No. 3 vein during the past week. Work will be resumed on the No. 1 and No. 2 tunnels next week.

Portland.—Work on the shaft continues and it has reached a depth of 80 feet. Work continues on the tunnel.

Douglas.—Work on the lower tunnel continues and the showing of ore is increasing rapidly.

I. X. L.—Work continues on the lower tunnel.

Will Visit the Mines.

Mr. Thomas F. Anderson of the Boston Globe and Mrs. Anderson arrived in the city last evening. Mr. Anderson left Boston on September 1st and came west via the Canadian Pacific railway. He has visited Vancouver, and leaves today by way of the Crow's Nest railway on his way east. Today he intends to visit the mines of the camp.

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THE ROSSLAND MINER'S

MAP

...OF THE...

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The mines and mining claims of the Rossland camp, and their buildings, such as shaft houses, compressor plants, ore houses, boarding houses, etc., are all on the map.

All physical features of the surrounding country, such as mountains, hills, valleys, plateaux are shown just as they are. The winding of railways, wagon roads and trails are correctly represented.

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WAR EAGLE HOTEL. Presentation to Mr. and Mrs. Morrison on Their Leaving the Hotel.

It has been decided by the War Eagle Hotel company that the hotel and the management of the hotel and the superintendent of its accounts throws too much work upon the staff of the mining company, and it has been arranged in consequence to lease the hotel to Clarence E. Chittenden, who has been running the Josie boarding house and who will take over charge some time during the week. The lines on which the boarding house and dining room have been heretofore run will remain the same. The present manager and his wife, Mr. and

and Mrs. Morrison, who have been with the War Eagle for a considerable period, were the recipient last evening of a complete silver tea set, including spoons, which was presented to them by the mining and office messes. The plans of Mr. and Mrs. Morrison, now that they are severing their connection with the hotel company, are not at present decided upon as to whether they will leave Rossland or not.

Mrs. D. McG. Gandier left last night for the south, where she has been sent under doctor's orders, the rarified atmosphere at this altitude being troublesome to her constitution. Her husband accompanied her on her journey, going as far as Spokane.

Mr. J. N. Robinson (Canadian American Development company) from Peachland. The Josie group, 12 miles deep creek, and he is in the process of arranging for work upon them.

claims in the group of 350 feet of work do including a shaft 95 feet to the bottom of the 200 feet. The result of the result demonstrated the meanness of the vein, was not encountered a shaft was sunk on the ore shoot came a shaft was sunk 50 feet made for about 30 feet 15 feet wide carrying was found. The ore \$45 to the ton. It is carrying considerable

"At the mining of son, which is 16 miles land," said Mr. Robinson, "I claim ready for the surveys have Silver King, one of properties, we have 200-foot level. The plored from the bot shaft into the mount vein is from five to 20 perfect walls at that in the ore run from 'The ore is gold-copp having made a great construction of a camp' the company machinery as soon pleted. The hoisting done with a horse expensive. On the also owned by our work has been done group, nine miles of of tunneling and done. At each of smith shops have tools provided. Dr. associates, of Spoka property near Glen quite promising, and in the vicinity of developed by pros Hewitt Mining com ters at Vernon, sp in developing a gro Peachland. The on a high grade, some as 21 per cent copp p." "In the Okanagan city of Kelowna, is a great success. ager of the cigar was in Montreal tobacco men were tobacco they have. that they have off can be furnished said to be superior in the east. This petus to the raisin section and the a be considerably la "Adjoining Peac land is under irrig brought a distance sub-canals are now every acre can be owned by the Pea pany. It is being acre tracts and is orchards. The lan suitable for the ra all kinds. A good peaches were ship points along the it season. In time pply all of Br peaches."

Mr. Robinson is and will remain in or three days.

A BEA A Wandering Urn dies on M

A well known a was telling a story eard, Columbia a three ladies of big the end of last we ascent of Mount e ccessfully scaling a tacked on their wa was looking for e concluded to get i ladies. He gravely reputation for ver the ladies were. One of them clim others successfully by striking him se with their alpen however, escape managed to claw ceeded in tearing lady who climbed fix, as she found some to descend. get up. The man succeeded in read the piling up of l companions who so that she even managed to jump. So much for th When the ladies declared that the a relative of B had climbed Mo of them had do Wilson had stop mit.

Mrs. Wilson s more dangerous L. R. Pyle said clawing she was only knew she climb she had was true the pa ves with alpen c brown the stio them to be a They had not a would try conc said any of the Mrs. C. E. Sim party, on being