

ORE FROM THE I. X. L.

Criticisms of a Frisco Paper Concerning it Replied to.

WHY IT IS SENT TO THE SMELTER

Work on the Heather Bell is to be resumed and the intention is to commence shipping ore—News From the Eastmore and Other Notes.

"In the Rossland, B. C., district the I. X. L. mine, with so-called free milling ore and a ten-stamp mill, presumably suited to the treatment of the ore, is shipping its ore to the smelters, it being stated that the cost of milling and the attendant loss of values are greater than the cost of treatment at the smelter. It would appear from this statement that either the ore is not free milling or that the mill work is not as efficient as it might be.

The above appeared in the Mining and Scientific Press of San Francisco, and Mr. Roy H. Clarke was sent Thursday, and said that the I. X. L. found it convenient to send the medium grade ore taken out during the development at present for the company to do so. The loss under the mill process on ore taken out from the O. K., an adjoining property, was from 20 to 25 per cent. Take an ore that runs \$10, and the loss of 20 per cent would leave \$8, and then deduct the cost of milling, and this would leave \$7. On this class of ore it would be cheaper to mill, as the cost of hauling the ore to the smelter at Northport and treating it there, is only \$4.50 per ton, which is a much cheaper rate than is charged anywhere else in the United States. Ore that goes \$10 would leave \$6.50, and this class of ore should be treated in a mill. Take ore that goes \$20, and after paying the cost of transportation and treatment in the smelter, there would remain \$15.50 for the miner.

If this ore were treated in a mill the loss of 20 per cent would leave \$16, and then take \$1 per ton for milling, and this would leave only \$15. This class of ore should be sent to the smelter, as there is a gain of 50 cents per ton in favor of the smelting process. Take ore that goes \$30 to the ton, and this is the class of ore that is being sent to the smelter from the I. X. L., and the loss of 20 per cent in the mill would leave \$24, and then deduct \$1 for milling expenses, and it would leave \$23. By sending it to the smelter there is \$23.50 left for the mining company after paying the freight and treatment charge of \$4.50.

The ore of the I. X. L. is what is commonly called a free-milling ore. It carries a small percentage of base metals. There is some iron pyrite, copper pyrite and a little galena in it. In the I. X. L. there are three grades of ore. In the course of the development, under the new management, there has been taken out about a ton of ore that carries free gold that is worth from \$1,500 or \$2,000 to the ton. Besides this, 200 tons of ore that goes from \$30 to \$40 to the ton has been extracted. In addition to this, 500 tons of ore has been taken out and stored in the dumps, which it is roughly estimated will go from \$10 to \$12 to the ton. The ore so far extracted has been taken out in the course of the development work. No attempt has been made to stop. When the mine is fully developed and stoping begins in earnest, it is very probable a mill will be used for the reduction of the ore. This will be done unless it is found that the ore becomes more base with depth.

The lower tunnel in the I. X. L. is in for a distance of 305 feet. It is expected that the ledge will be met within the next 10 days. This will give an ore shoot with a depth of 100 feet, and an average width of four feet.

WILL RESUME WORK.

The Heather Bell, on Mackie Mountain, to be Worked All Winter.

Mr. Samuel Forreth Thursday received specific instructions from the management of the Heather Bell Gold Mining Company whose headquarters are in Toronto, to employ a force of men on the Heather Bell property at once, with the object of continuing operations all winter. It will be remembered that work on this property temporarily ceased early in September last, when Mr. Forreth made a full report of what had been accomplished up to that date, and in consequence of the good showing attained, the management has decided to recommence operations, and to continue work on the property all winter. Mr. Forreth will take out a force of men next week, by which time he will have everything in readiness to open up again. Mr. Forreth says that as soon as the snow comes he will commence to ship ore from the Heather Bell, there being plenty of shipping ore in sight. The ore will be sent down to the line of the Columbia & Western railway, and sent in to the Trail smelter. A spur has already been constructed, and everything is in readiness to commence shipping just as soon as the snow flies.

The manager will have the benefit of the advice of one of the best mining experts in the camp, and no trouble or expense will be spared to properly develop the property.

THE WATERLOO.

The Mill is Running and Attaining Good Results.

News has reached here from Camp McKinney to the effect that the Waterloo mill there has been running steadily for the past three weeks on ore from the lower workings of the mine. The plates are thickly coated with coarse amalgam and a clean-up will soon be necessary. It is expected by the management that the result of the first mill run will yield a very substantial amount of gold. Work in the mine continues with very gratifying results.

At a depth of 125 feet a drift is being run to reach what is considered to be the richest portion of the pay chute yet known. The value and extent of the vein, however, where work has been done for the past two months, is sufficient to prove that the Waterloo is a mine of more than ordinary richness, the ore giving an average assay all through of a little more than two ounces in gold and some silver. There are several streaks that went as high as \$150 to the ton in gold. The average width of the vein is six feet. Up to the present time there has not been the slightest irregularity shown in the formation of the vein, with the exception that the ore body continues to widen. The mill plant has been erected so as to accommodate an additional battery of five stamps, and these will be installed and in operation before the end of the year. It has been discovered that the concentrates of the Waterloo yield high values and the management has therefore decided to forthwith install Whilby tables so that this valuable product may not be allowed to go to waste. About 75 per cent of the values in the Waterloo ore are free and is saved in the plates and in the batteries. The balance, in the form of concentrated sulphides, will be saved and shipped to the smelter for treatment there. It is said that the treasury shares remaining unsold will not be offered to the public, as those owning the contract have decided to continue their policy of buying them at the market price, as money is required for the development of the mine and the increase of the milling plant. There are enough unsold treasury shares to admit of the product of the mine being reserved for dividends. It will probably be the end of the year before a dividend will be declared.

Has Nine Ledges.

Mr. E. N. Ouimette Thursday received a letter from the foreman of the Eastmore, which is being operated by the Avon Mining & Milling Company. The property is located in Burr's Basin. The letter states that nine ledges have been found on the property. These have been partially stripped and 100 pounds of samples were sent with the letter so that they might be assayed in order to determine which was the most valuable. The lead at all run in one direction and the intention is to soon start a tunnel so as to tap each one of them.

Work on the Referendum.

Mr. Charles Parker has just returned from a visit to the properties of the Referendum company, which are located on Forty-Nine Mile creek, 12 miles from Nelson. Mr. Parker is the consulting engineer for the company, and has spent the past 10 days looking over the three properties owned by the company. The shaft is now down to a depth of 75 feet and is now being deepened. The intention is to sink to the 100-foot level and then to drift along the vein. The ore from the vein goes from \$15 to \$38 to the ton. Mr. Parker said in conclusion that he thought the Referendum would make a good mine.

EVENING STAR SOLD.

George B. McCauley Secures Control of the Company.

An important mining deal was consummated in this city yesterday by which the management of the Evening Star mine passes into new hands, George B. McCauley and his associates having secured the controlling interest in the stock, says the Spokane Chronicle.

Mr. McCauley has been a stockholder in the company for some time past, and has been gradually increasing his holdings until yesterday, when he purchased the stock of M. M. Cowley, who has been one of the heaviest stockholders. The amount of stock covered by the deal yesterday or the price paid has not been made public, and the principals in the deal state that they are not yet ready to give out the details. Mr. Cowley, however, said this afternoon that the sale had taken place and that he had disposed of his entire interests, with the exception of a small amount, which he was compelled to hold as one of the incorporators of the company. As to the price paid, he said that it was not far from the market price of the stock, which has been from 7 to 9 cents on the board.

He also stated that the sale of his stock to Mr. McCauley gave the latter the controlling interest in the company, but that he did not know what the plans were for the reorganization of the company, further than he understood it was to be reorganized.

Mr. McCauley declines to give any information as to the future plans in regard to the mine, but it is stated that the company is to be reorganized under the British Columbia laws and that the management will be taken away from this city. The Evening Star is one of the best known mines in the Rossland district, and has been shipping ore for the past year. It is capitalized at 1,500,000 shares, nearly all of which have been owned by Spokane parties, D. M. Drumheller and J. L. Drumheller. It is said that the plans for the reorganization of the company have been under way for some time, the object being to place the stock in such a way that the necessary funds can be raised for operating the mine on a large scale. Although the Evening Star has not been shipping ore for some time, it has not been hardily paying the expenses of operation, and it was necessary to close down recently until more funds could be raised. By the reorganization of the company a certain portion of the stock will be devoted to the operation of the mine, and it will be supplied with all the necessary machinery to put it on a paying basis. The plans of the reorganization have not yet been made public, and all that has been definitely announced in regard to this matter is that it will probably take place in the very near future, and that it will remove the principal place of business to the British Columbia side. It is said that stockholders representing about 1,200,000 shares of the stock have already consented to a reorganization and to surrender their stock in the old company for that of the new. This is more than enough to carry out the plan, and if the remainder of the stockholders object, a value will be placed on the mine and they will be allowed the money for their stock.

Invited to Visit Nanaimo.

Mr. H. B. Smith, C. E., who recently designed a proposed new system of waterworks for this city, has been invited to Nanaimo for the purpose of valuing and reporting on the present waterworks system of that city, which is about to be purchased by the Nanaimo corporation.

THE MINING WORLD

Ten Feet of Ore Found in the Portland Shaft.

CARRIES COPPER AND GOLD

The Evening Star is to be Reorganized as Made an Assessable Company—The Giant is to be Provided With a Compressor Plant Immediately.

Mr. J. L. Morrish, manager of the Velvet and Portland, is in the city from Sophie mountain and reports that work progressing along the usual lines on both these properties. The main adit on the Velvet is now in for a distance of 415 feet and is nearing the ledge. Drifting is in progress on the 250-foot level and the showing of ore here is excellent. On the Portland the tunnel is now in for a distance of 140 feet and the shaft has reached a depth of 100 feet. In the shaft 10 feet of ore has been met and it is of a high grade, assaying \$100 to the ton. This ore carries both copper and gold. The Portland gives promise of being a mine of more than ordinary richness.

THE EVENING STAR DEAL.

The Company is to be Reorganized—Work to be Pushed.

As announced in the Miner several days since there has been a re-shuffling of the cards in the affairs of the Evening Star and a new deal is being made. Messrs. George B. McAuley and C. P. Chamberlain of Spokane, are in the city for the purpose of arranging the final details of the deal. The present capital stock of the company is 1,500,000 \$1 shares. Under the new reorganization the company is to have 2,000,000 shares of a par value of 10 cents each. This will make the capital stock \$200,000. The shares are to be assessable up to two cents per share. There will be 500,000 shares placed in the treasury for development purposes. Mr. Chamberlain is in charge as the representative of the old company and work will be resumed at once. The intention is to push the work with a large force of men. Among the conveniences will be a compressor plant of a capacity sufficient to economically open the mine. There are some large reserves of ore of a fair grade in the Evening Star and with the work conducted on a large scale and in a manner to secure the extraction and transportation of the ore at the railway economically good results should ensue. Mr. Chamberlain will carry on the work along these lines and it should not be long before the Evening Star company should be paying dividends.

A PLANT FOR THE GIANT.

A Ten-Drill Compressor Ordered by Mr. Sanders Yesterday.

Mr. E. D. Sanders, one of the syndicate that has the option on the stock of the Giant, is in the city, and yesterday he visited the property. He was seen at the Windsor shortly after his return from the property and reported that he was greatly pleased with its condition. The ledge is being opened on the surface with the idea of finding its extent and which is the best point at which to sink a shaft. There are, he says, between 400 and 500 tons of ore on the dump. Mr. Sanders is so much pleased with the outlook that he has decided to at once put in machinery, so that work may be expedited. He has ordered a 10-drill compressor from the Jencks Machine company for the property. This plant cannot be delivered until March 1st, 1930. In the meantime the desire is to push work as rapidly as possible. Mr. Mendenhall has a four-drill compressor in stock in this city, and this will be installed at once. It is calculated that this can be put up and made ready for use in about 10 days. The work of hauling it to the Giant over the wagon road that runs through the property of the company, is in anticipation of what commenced today. Superintendent Treger is engaged in blasting out a space on the sidehill so that it can be used as a site for the shaft house, which it is the intention to erect. As soon as the plant is installed the work of sinking a shaft on the ledge will be commenced. It will follow the dip of the ledge and will, therefore, be inclined. The plan that was so successful at the Le Roi in finding the ore bodies will be followed on the Giant. The shaft will be of the two-compartment type. The intention is to put up buildings that will not be costly. Utility and not style will be the policy in the construction of the plant. The dominant idea is to get out the ore and to do this in as cheap a manner as is consistent with good mining. Mr. Sanders says the stockholders will not care whether the Giant buildings are fancy or not so long as they receive dividends on their investments.

WILL ADD MORE STAMPS.

The Ymir Mill to be Increased from 40 to 80 Stamps.

Mr. H. B. Smith returned a few days ago from a visit to Ymir, where he was engaged in doing some surveying for the Ymir Gold Mining Company. He reports that the mill and mine are running to their full capacity. The mill is running night and day, and the miners are taking plenty of ore out of the mine to keep it in operation. The company, he reports, is experiencing no trouble in securing all the men that are needed. In fact, they have been compelled to turn away some as there were more applicants than there were places for. The company seems to have implicit faith in the future of the mine. They have erected a splendid 40-stamp mill, which is to be increased soon to 80 stamps. In addition to this, large boarding houses, offices, etc., have been put up. The company recently purchased about 90 acres around the mill, and are going ahead with everything on an extensive scale. Altogether the section around Ymir is in a very prosperous condition.

The Norway Mountain Mining Co.

At a meeting of the directors of the Norway Mountain Gold & Copper Mining Company, Mr. Griswold, who is in charge of the work on the properties of the company, reported that he was now sinking on as fine a lead of free milling

quartz as he could wish for. He said that he had enough provisions and supplies for all winter for his present force. He also reported having erected on the Mexican claim, near the shaft, a blacksmith shop, commodious log house large enough to accommodate a much larger crew than the present. He expects to go down 100 of 150 feet during the winter, and then drift preparing for stoping ore for the stamp mill and concentrator. He emphasized his faith in the property by subscribing to 20,000 shares. Others followed suit, and 50,000 shares were subscribed before the meeting adjourned.

Bothered by Surface Water.

Mr. F. R. Mendenhall yesterday sold to the British America corporation an old horse power boiler to be used in the Nickel Plate property. The water of late has been coming into the property at a rapid rate and the power generated in this boiler will be used to pump this water from the workings. Several of the properties of the camp have recently been bothered by surface water. This will cease to be the case to a large extent as soon as the first frost hardens the ground and prevents the surface water from running.

Siding for the Virginia.

The Virginia will soon be provided with a siding, so that there will be no necessity for hauling the ore from the new shaft to the railway. The Canadian Pacific has graded the siding to the new shaft, and as soon as the rails come to hand they will be laid. The drift on the 41-foot level is being steadily driven to the west, and is now in for a distance of 75 feet. There is considerable ore on the dump, and the intention now now is to send about 20 tons of ore per week to the smelter at Northport.

Assays of Bright Future Ore.

Messrs. Bridgman and Hering Friday day received an assay of the ore from the Bright Future group, which is located in the Pend d'Oreille section. The return is \$20.16 in silver and \$5.60 in gold, or a total of \$25.76. This has so encouraged Messrs. Hering and Bridgman that they intend to keep on with the development of the property.

THE ST. LAWRENCE.

A Property in Deadwood That Will be Worked All Winter.

Mr. John Peterson, formerly of Rossland, who has been working on a contract in the Swansea mine in the Kootenay area in town Thursday and left for the Boundary country this morning to commence work on the St. Lawrence claim in Deadwood camp. The St. Lawrence property adjoins the Mother Lode and is owned by the Deadwood Gold Mining company of Spokane. Mr. Peterson will have full charge of the work and operations will be continued all winter.

A Strike on the Bright Future.

Messrs. M. B. Bridgford and George Hering are the owners of the Bright Future group of three claims on the Pend d'Oreille section. This group is located about a mile from the Bunker Hill. For some time past two men have been engaged in developing the Bright Future claim. They have been sinking a shaft and yesterday a letter was received by Messrs. Hering and Bridgford, which stated that a large ledge has been met in the shaft. The depth was not mentioned. The ore is a quartz, carrying gold, copper and silver. It is a concentrating ore. Some of the samples have been received and will be assayed today. Assays of ore from another ledge on this claim went from \$28 to \$50 to the ton.

The Property is Improving.

Mr. S. F. Griswold of the Norway mountain company, is in the city, having just returned from a three weeks' visit to Chicago. Thursday he received a letter from Mr. E. D. Sanders, who has been in charge of the work on the property of the Norway Mountain company, in which he says that the property is improving with every foot of depth. The ore body in the bottom of the shaft is five feet in width and well defined, being in a contact between diorite and granite. Mr. Griswold, Sr., will leave for Norway mountain on Monday next, and will assume charge for the winter. He says there are supplies enough at the property for the next six months, and that operations will be conducted continuously during the winter.

ANSWER TO QUERIES.

What the Zala M. Is Doing.

Editor Miner: I will be obliged if you will insert in your paper full details with regard to the Zala M. mine; stating who the directors are; what its capital is; what other means were on hand for development; just what work has already been done; what the nature and value of the ore is; the stock worth other particulars of the veins; and the price at which the stock is being sold. By doing so you will oblige,

AN OUTSIDER.

The directors of the Zala Consolidated Limited, are Ross Thompson, Dr. E. B. Bows, D. M. Snyder, R. M. Grogan, E. S. Topping and F. W. Roll. The properties of the company consist of the Zala M., and the Fannie Woodward, situated seven miles from Republic, in Sheridan county, Stevens county, Washington. The development consists of a shaft sunk to a depth of 150 feet, and the vein has been opened by cuts on a distance of 200 feet. A long tunnel is now being driven for the purpose of tapping the ledge at a depth of 300 feet. The vein has an average width of 26 inches and the ore will average \$80 to the ton, although assays of picked samples run as high as \$1,000 to the ton. The capital stock of the company is \$800,000 divided into 50 cent shares. A compressor plant has recently been installed on the property and the work is being carried on with machine drills and is making very satisfactory progress. The affairs of the company are in a very good condition and it is thought here by mining men that the company has a bright future before it.]

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