

BOHEMIA NUGGET.



Devoted to the Mining, Lumbering and Farming Interests of this Community.

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TEN FEET COPPER ORE

Increase of Values and Quantity at the Oregon-Colorado

WORD came Tuesday from the Oregon-Colorado mining property in Bohemia, to the effect that never since the inception of work there has there been such a showing of ore as the contractor is now opening up in driving the tunnel.

The breast of the tunnel is approaching a distance of one thousand feet from its mouth and as both distance and depth is gained a great improvement, both in quantity and percentage of copper is found.

The tunnel has for some time past been run along one edge of the vein. Last week Sept. Jenkins requested the workmen to cross-cut the vein, for the purpose of determining its width. Monday over ten feet of ore was exposed and no wall reached.

The informant also states that quite a percentage of Melaconite, or black oxide of copper is appearing in the vein. This form of copper is high in values. This immense ore body has been anticipated by the management, as the great cropings indicated where it would be found.

RETURNS TO MINE

C. MATHEWS, superintendent of the Oregon Securities Mining Company, arrived from a two weeks visit to his family in San Francisco Saturday night and on Monday morning went on to Bohemia.

The special occasion of his visit to California was to see the new girl baby that recently arrived at his home. He reports Mrs. Matthews and the new comer getting along very nicely.

Mr. Mathews stated that the mill at the Oregon Securities is now dropping 20-stamps and that within a few days the full 30 will be in use and that the mine can furnish sufficient ore to keep the mill busy.

CHAMPION BASIN COMPANY

LAST Saturday, the officers of the Champion Basin Mining Co.—Ben Lurch, C.J. Howard and Frank Jordan—returned from a visit to their mining property in Champion Basin, Bohemia mining district, where they had spent several days in inspecting and deciding where to do this season's work, as

well as to look over the district in general.

They express themselves as well pleased with the outlook and with the showing made by the work done in the tunnel late last fall. The company has a well located group of claims, with splendid cropings, showing improvement as depth is gained. Considerable development work will be done this year.

CRYSTAL CONSOLIDATED

MANAGER Lloyd, on Tuesday received word from the foreman at the Crystal Con-

solidated that the orebody found some little time since, which had been opened in the upper tunnel, had been reached in the lower, and to be the main working tunnel.

The ore is rapidly increasing in size as distance is gained and looks to be of a much better grade than above, and carries a greater percentage of copper than the ore in upper tunnel.

A. W. Ziniker has gone back to his claims in Bohemia to continue work on the tunnel.

Al Churchill, this week sent up a good lot of supplies to his claims in Bohemia and followed them closely himself. He will at once begin work on the Big Monte group.

Edd Jenks, supt. for F. J. Hard recently visited the Riverside property and confirms the statements made in last week's Nugget, concerning the large body of ore showing in that property. Mr. Lundborg, who has the contract on the tunnel, left the city Friday to finish up the work.

NOTICE

Notice is hereby given that a meeting of the Bohemia Mine Owners Association will be held at the Bohemia post office on Saturday night, April 22nd. All members are requested to be present as business of importance will be presented.

ZINC MINING IN COLORADO

(Continued from last week)

COLORADO ZINC PLANTS.

Perhaps the first successful zinc-concentrating plant in Colorado was established at Leadville in 1889, operating on local ores. Practically simultaneously, the Dewey Brothers of Georgetown, having given the matter considerable attention, turned out a desirable zinc concentrate.

The first Colorado zinc smelter was established at Canon City some years ago by Dr. F. L. Bartlett, who had perfected and patented a process of his own enabling him to buy zinciferous ores, paying nothing for

the zinc and making what is known as "zinc white"—rather an inferior material, but which found a ready market as paint. In 1901 this plant was sold to the United States Reduction Company, who have greatly enlarged its capacity, and are active buyers for all classes of dry ores, which they run into copper matte; and for certain kinds of zinc ores they utilize the Bartlett process for saving the zinc fumes in a "bay house," the product being shipped to Chicago, from whence it is distributed among the paint manufacturers of the Middle West.

A zinc smelter of fifty tons capacity was erected at Pueblo about two years ago by the Guggenheims. It is on the old-fashioned Belgian lines, with no new features and may prove to be obsolete in the early future. It is now being equipped with automatic appliances to minimize the amount of hand labor employed.

The Denver agent of E. O. Jacobson & Co. first shipped any appreciable amount of Colorado zinc concentrates to points outside the United States. The Vieille-Montaigne Company, of Antwerp, has shipped large quantities of Colorado zinciferous ores to Belgium. Previous to these foreign shipments, considerable shipments, as above mentioned, had been made to zinc smelting plants in eastern Kansas and Missouri from Leadville, Georgetown and Rico.

The Empire Zinc Company of Franklin, New Jersey, with plant at Canon City and branch office in Denver; the Lanyon Zinc Company of St. Louis, Missouri and the Cherokee Lanyon Zinc Company of Gas City, Kansas, all part and parcel of "The Zinc Trust," have been for some time and are now active buyers of Colorado zinciferous ores and concentrates, and each of the three concerns mentioned are more or less identified with the concentration in Colorado of the crude zinciferous ores before shipment to their respective smelting plants at Joplin, Missouri, Gas City, Kansas, Iola, Kansas, Pittsburg, Chicago, New Jersey and various other American zinc-smelting points.

The Colorado Zinc Company in 1902 built a sixty-ton zinc concentrating plant at Denver, using electrical methods of separating the zinc contents of the ores. The ore is first crushed and run over Wilfley tables, making: (1) High-grade zinc slimes; (2) zinc-iron middlings; (3) finished lead-iron product.

The middlings product is dried and passed over Wetherell magnetic separators, resulting in a fifty per cent zinc product. The tailings from the Wetherell machines pass to Blake electrostatic separators, where

MUNIFICENT GIFT TO MINING MEN.

SEVERAL months ago Mr. John Hays Hammond, R. M., conceived the idea of donating to the service of his fellow workers in California, his former home, a technical library, chiefly devoted to mining and metallurgical subjects, to be placed in some easily accessible public place in San Francisco, Cal. To this end he has placed in the hands of Mr. Chas. G. Yale of San Francisco the sum of \$5000, and has appointed as trustees to carry out his wishes in this regard, Mr. Chas G. Yale, Mr. Louis Janis, E. M., and (ex-officio) the state Mineralogist of California, and has selected the State Mining Bureau in San Francisco as a suitable repository for this valuable collection of technical literature. The gift has been given without those conditions which too often subvert the wishes of the donor of such gifts, as well as embarrass the trustees in their desire to do the things which to their minds are proper.

The desire of Mr. Hammond is to establish a library of technical works which shall be of value to the professional mining and metallurgical engineer, the Superintendent and the mine, as well as others who may be interested in the mining industry. The matter of the selection of books and equipment is left entirely to the trustees above named. The provision is made by the donor that no circumstances shall the library be removed from the city of San Francisco, but in the discretion of the trustees may be placed elsewhere than in the State Mining Bureau, should occasion arise. It is the intention to purchase suitable cases, desks and other necessary furniture to secure the desirable books, to have such as complete it suitably bound, and to completely catalogue the collection so that literature in this collection may fully serve the purpose for which it is intended. The trustees will at once assume the responsibilities of the library will be established as soon as practicable. This gift of Mr. Hammond is but the initial donation, he having signified his intention of following it up with what further contribution may be necessary to make the library a complete success.—Mining and Scientific Press.

RICH ORE FOUND

SUPERINTENDENT Best Rock, of the Platis group, Rock Creek district, reports that he has just cut into a rich body of ore in the main drift. This property is in close proximity to the Highland and Maxwell groups, which have already established themselves as producers of high magnitudes. The values may be saved.

Platis group consists of eight claims on the vein and two placer claims. The ledge shows a width of nine feet without having been cut clear across between walls. A cross-cut had been run to the ledge, which has been drifted upon all winter. The total distance run by the cross cut and drift is 600 feet to the point of contact with the rich body of ore just reported. The strike was made by the night shift Thursday evening.

The Platis is the property of the Harry T. Hendricks mining firm which also owns the Taber Fraction Victor, Midway and other promising groups. Ore from the Platis is taken out on the Rock Creek side of the divide, which separates that stream and Cracker Creek. It is hauled to Haines and from there shipped to the smelter here. With continuation of the rich body of ore will come the erection of a mill in the near future and probably other equipments.

A GOOD CLEANUP

A brick containing \$3700, melted from gold taken from the sluiceboxes of the Sturgis mine, of Forest Creek, after a five-days' run, has been exchanged for coin of the realm at the bank of Medford. This is the record-breaking run for any placer mine in Southern Oregon this season, and it is a graphic proof of the remarkable richness of the placer gravel of the Sturgis battery has been operating this winter. The gold was taken only from the sluices, and is not a complete cleanup of all the metal washed down, as a great share of it is caught in the rive or hangs to the bedrock.

The Sturgis has made remarkable progress since it was purchased and re-equipped last year by L. A. Vance and associates, of Los Angeles. Work has been done under the management of W. E. Olmstead, an experienced placer miner. Mr. Olmstead states that though the season has been slack of rain, the Sturgis has not suffered materially, and the battery has been in almost continual operation. The equipment is modern and complete, and with the derrick and powerful battery, solves the problem of working the heavily-gravelled though rich bars of Forest Creek successfully. The Sturgis is located on Forest Creek, six miles from Medford.

George W. Lloyd went to Portland Tuesday to meet a metallurgist who will return with him and proceed to the Crystal Consolidated property, where he will spend some time in testing the ores to determine the proper methods of treatment, in order that the highest percentage of values may be saved.

WILL INCREASE WATER SUPPLY

City Council Securing Estimates and Will Call for Voting for Water Bonds.

City council met Monday night in special session.

The mayor, recorder and all the councilmen present.

The bond of city marshal Underwood in the sum of \$500.

The water committee submitted the following report:

To the Honorable Mayor and City Council of Cottage Grove, Oregon.

GENTLEMEN:

We, your special water-committee beg leave to report as follows:

We have for some time been investigating our present water supply and the future needs of the city and find:

That our present pipe system will soon be inadequate to supply the needs of the city for domestic purposes.

That it does not furnish sufficient fire protection.

That it does not utilize more than one-half the low water flow of the creeks whence our water supply is derived.

We therefore recommend that a reservoir be constructed to hold 1½ million gallons.

That all the ordinary flow of both creeks be piped into it.

That a 10-inch pipe line be laid from said reservoir to 1st street near the depot.

That our old main be taken up and used in the distributing system.

That means be taken to protect our water supply from pollution.

That an election be held upon the proposition to issue bonds for the purpose of making the above improvements according to plans now under consideration.

FINGAL S. HINDS,
Chairman of Special Committee.

A general discussion concerning the necessity of the improvement of the water system was held, and all favored the taking up the matter in earnest. Surveyor Lincoln Taylor stated he had made some estimates as to the cost of changing the main pipe to the reservoir, but an exact amount could not be given until the size and kind of piping to be used as well as the cost of lands, etc., but it would range between

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