

Devoted to the Mining, Lumbering and Farming Interests of this Community, to Good Government, and Hustling for a Grab Stake.

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Mines and Mining

THE SUNRISE GROUP.

A short time ago E. S. Lovelace, of Fort Harrison, N. D., arrived in the city accompanied by E. LeSueur and W. B. Thompson both of Grand Forks, N. D. They at once drove up into Bohemia where the two latter men were given the right of way to thoroughly and impartially investigate the Sunrise property...

THE GREAT BOHEMIA DISTRICT.

BY GEO. W. LLOYD.

The following article by Geo. W. Lloyd, of Boston, appeared recently in the "New England Journal for Investors" from which it was reprinted by the "Pacific Miner" and other mining journals.

One of the most prominent of Oregon's mining camps is the Bohemia mining district. It is situated in the Calapooya mountains, about 150 miles south of the northern boundary of the state and about 90 miles east of the Pacific coast. It is reached by stage from Cottage Grove, a station on the Shasta route of the Southern Pacific railroad. The distance by stage is about 35 miles. The district has been known locally for many years and there are several instances where the early pioneers found pockets of gold there. It remained in an inactive state, however, until about ten years ago, when mining men from Montana and California commenced active development. From that time on the development has been prosecuted with vigor and with such good results that over \$5,000,000 worth of ore has been exposed to date.

These gentlemen looked the property over thoroughly and returned last Saturday to this city, where a Nugget reporter interviewed them Sunday before they started east. Mr. LeSueur expressed himself as surprised beyond measure at the fine showing on this property and stated that it would certainly warrant any outlay of money for further development and improvement. He is a miner of many years experience and has been through many of the best gold mines in the west, yet he says he never saw anything more promising than is the Sunrise.

LeRoy's New Machinery.

A flat car came over the S. P. and was attached here this week, bedecked with streamers bearing the words "TO THE LEROY MINING CO." The car was loaded with one air compressor, one 25-horse boiler, engine, receiver, tanks, two 3 inch Leyner drills, 1000 feet of two inch pipe with all equipments, including a blacksmithing outfit and several hundred feet of steel Superintendent Johnson came down Tuesday night and a platform has been erected upon which the machinery will be taken from the car, after which it will be loaded on the freight wagons. This is the first car loaded with mining machinery that has been banded and the result has been a good advertisement for Bohemia. Everywhere along the line the car has attracted much attention. The managers expect to have the machinery in operation by the 15th or 20th of August. Forty thousand shares of mining stock have been sold by the LeRoy people this month. This is surely encouraging to those who early in the history of the company mustered up sufficient courage to take a thousand or two shares at the going price, first at 1/2 cents and then two weeks later at 3 cents. It is noticeable fact that at no time has there been a lull in the sale of this stock, and it has been increasing rapidly in value until today it is worth and being readily bought for 10 cents. With the present outlook, the splendid machinery now on the ground—not "talk" but a reality—the work well in hand—the railroad now under construction—a buy at 10 cents is as good or better than a buy at 1/2 cents at the start, when the purchasers had nothing but a promise from the promoters. It is also noteworthy that the company has been conservative in its promises and that nothing has been promised that has not been forthcoming. Stockholders in this company congratulate themselves on their lucky buy.

Stock Advancing.

It is a noteworthy fact that every stock company in Bohemia that has put its stock on the market and made any attempt to sell has met with splendid success, and at no time has failure resulted. It is not the intention of the writer to state that there will not be placed on the market stocks of Bohemia properties that will not be profitable. Undoubtedly this will be the case in some instances, but thus far there is no record to that effect. Take the Helena, the Musick, the Star. They went on the market at a small price and today see where they are, and if you do not think the stock in these properties is valuable, try to pick up a few thousand shares—that is the test of the pudding. Look at the LeRoy, the Hiawatha, the Judson Rock, the Adams Mountain, the Crystal, all of which started their stocks at low prices. At the very beginning these properties met with more discouragement than they have since, for with every foot of development work, they have had something to show that has had a tendency to give those who had faith in the beginning a firmer opinion of the meritorious qualities of the several properties, and in place of the stocks standing still or going down they have gone up, and what is very satisfactory, have always had takers.

characterizing ferromagnesian silicates. Although widely distributed, the andesites are much altered, and only a few of the least-altered forms will be noted.

"On the Champion trail one-fourth mile southeast of the Musick mine is a gray, minutely porphyritic pyroxene andesite, in which, besides the crystals of plagioclase, there are dark spots of pyroxene or chlorite derived from it. Most of the pyroxene is certainly augite, but some of the altered forms suggest hypersthene. The ground mass is chiefly plagioclase, the minute lath shaped crystals of which, with the pyroxene, give a somewhat ophitic structure. A few dark bordered spots suggests the former presence of hornblende, and irregular grains of magnetite are scattered rather abundantly throughout the mass.

"Below the trail the country rock about the Galena spur opening of the Wall Street claim is closely related to the andesite last noted, but contains scarcely any plagioclase crystals visible to the unaided eye. Pyroxene is present, and also dark bordered patches from which most of the hornblende has disappeared. The feldspar has a large angle of symmetric extinction and is most likely labradorite. This is the only distinctly hornblende-bearing pyroxene andesite seen in the Bohemia Mining District.

"To the northward, in Elephant mountain and Fairview, and in the ridge between them, the dark-gray porphyritic andesite prevails, but is somewhat altered, containing considerable carbonate of lime, epidote and chlorite.

In the south base of Bohemia mountain, at the head of Petersburg canyon, the andesite is arranged in layers, seven of which make up the upper 500 feet of the mountain. The lower layer has well-developed columnar structure, and the dense andesite of which it is composed contains between the minute plagioclase crystals, besides numerous grains of augite, a great deal of yellowish, partially devitrified glass.

"The top of Grizzly peak is composed of a compact, dark gray, non-porphyrific andesite of basaltic habit, but consisting chiefly of plagioclase in small, squarish and a few oblong crystals, with considerable magnetite and a trace of pyroxene. Epidote, chlorite and carbonates replace most of the pyroxene. Another similar rock, but even finer grained, occurs by the Noonday boarding house. The feldspars, generally less than 0.05 mm. in length, are abundant in the ground mass, and the micropheocrysts are rich in crystals and grains of magnetite.

"Basalts are few and andesitic in the Bohemia region. One of the best marked forms the southern edge of the summit of Bohemia mountain. Micropheocrysts of feldspar, pyroxene and serpentine are abundant, and so decreased in size that the distinction between ground mass and phenocrysts is not sharply drawn. The serpentine has the net structure characteristic of that derived from olivine. The ground mass is composed chiefly of lath-shaped plagioclase and granular augite, with considerable magnetite and a small amount of secondary quartz. These rocks are cut by veins of quartz, and were evidently in place before the development of the auriferous veins. At the northeastern end of Bohemia mountain the lava sheets are cut by a vein of bright red chert. In the hand specimen this vein chert looks very much like that of organic origin found at many points in the Coast Range of Southern Oregon and California.

"Tuffs are abundant, especially in the eastern part of the Bohemia region. They are well exposed also at several places in the western and central portions.

"As the region is approached by the Sharp creek trail the stratified tuffs are first seen under Judson rock, where the fine gray banded tuff is well exposed. Well-stratified tuffs occur in the reservoir to A. F. Johnson's stamp mill upon the western slope of Elephant mountain. A coarser variety, of larger distribution, was seen on the White Ghost claim, near the right bank of City creek. At this point the component lapilli are a centimeter or so in diameter and the fragmental character is visible to the eye. Here, too, it is associated with the interesting tourmaline horafels, which doubtless excited the miners' hopes. The rock in places gneissoid in structure and is composed chiefly of tourmaline, with such quartz and minute scales of clear mica. This appears to be a product of contact metamorphism, with tuff on one side, but on the other side 10-foot ledge of hornfels was exposed.

"In the tunnel to No. 28 level of the Noonday mine tuff is well exposed in sheets interstratified with lavas. They are all of fine material. It is a matter of surprise to find no coarse fragmental material of volcanic origin in the region. It furnishes evidence that the explosive outbursts were outside of the district, possibly to the eastward, for in that direction

the tuffs become coarser and much more massive. On the trail from the Noonday to Riverside a good view is obtained of the slope of Horseheaven creek as far south as Henattite mountain. This slope is made up chiefly of light colored, well stratified tuffs.

"Very few, if any of the rocks of the Bohemia District are entirely unaltered, although the alteration is usually so small as not to effect the general appearance of the lavas in the hand specimen. Near the veins, however, the alteration is greater, and it is to be supposed that this alteration was effected in connection with the development of the veins. While the general alteration of the lavas consisted chiefly in the chloritization and carbonatization of certain minerals, the changes which were brought about closer to the veins are different, in the sericitization are the most important processes, and these are accompanied or followed by the deposition of sulphides, especially pyrite."

Some of the veins of the Bohemia District are not well defined, but are irregular mineralized belts or zones, in which there has been much crushing of rock material. Others are well defined and can be traced along the surface over the ridges for long distances. In places these veins outcrop to a width of over 50 feet.

The courses of the veins vary from north 40 degrees west to south 70 degrees west. They follow sets of joint plains. It is evident from the relation of the joints and veins that the joints determined the position of the veins and aided in affording an opportunity for the circulation of the mineral-bearing solutions by which the ores and gangue were deposited. The development of the veins, however, cannot be ascribed to the presence of simple joints alone, but to a crushed and porous belt of the rock in which there may be many irregular joints. Occasionally, the walls or inclosed fragments show well marked polish or striae of slickensides due to faulting. The existence of faults of at least small extent cannot be doubted. It is possible that the evidence of faulting was once more general and that it has been to some extent obscured or obliterated by subsequent deposition of vein matter.

From the foregoing considerations the deposits in the Bohemia District may be considered, in part at least, as follows:

The principal gangue mineral is quartz, which is more or less abundant throughout the veins, and is in many of the small veins the sole constituent. Such veins are of milky quartz, fresh, bright and solid, but the larger veins contain quartz that is more or less porous and cavernous, and the larger openings are lined with quartz crystals. While the crystal lined cavities which occur more or less abundantly in all the large veins are positively evidence that the deposition took place in a cavity, yet the absence of banding indicates entire irregularity in the shape and order of deposition in the cavities. By the oxidation of the inclosed iron pyrites near the surface the porous quartz is deeply stained red, yellowish or black the color depending upon the degree of oxidation and hydration of the iron.

Next to quartz the most important gangue material in the veins is a white clayey substance resembling kaolin. When treated with nitrate of cobalt so are in part high instead of low, as are those of kaolin and it has a finely foliated structure with parallel extinction, like sericite.

The surface ores are in some instances free milling, but as depth is gained they change to what is called base ores, which carry gold, silver, copper and lead. Oxide of iron is frequently found and when it is intermingled with the sulphide it is red hematite, and its presence is generally considered an indication that the ore is rich in gold.

The dark brown to black oxide of iron is sometimes associated with a partial weathered form of good sulphide ore. Gold predominates in the ores carrying usually more than one-half of the mineral values.

The principal mines today in the district are the Musick, Helena, Gold Cross of the Bohemia Company, Venusius, Stocks and Harlow, LeRoy, Hiawatha, Oregon-Colorado, Noonday, Grizzly, Champion, El Calado and Mountain Lion of the Crystal Company, Sunrise, Judson Rock, Eutopian, Wall Street, and many others. These mines are opening up valuable and large ore bodies which are being deposited on the dump awaiting the advent of the railroad.

The railroad is now being constructed. Grading was commenced about the first of May. At the present time over seven miles of construction is completed and the total distance of 35 miles from the Southern Pacific railroad to Cottage Grove to the heart of the district will be completed this year. Oregon, Massachusetts and New York capital is interested in this enterprise.

The output for the Bohemia region has been approximately as follows: 1893, \$11,000; 1894, \$20,000; 1895, \$24,000. (Continued on page 1.)

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