

# BOHEMIA DISTRICT READY TO PRODUCE

Two Modern Mills Completed and Development Is Extensive—Transportation No Longer a Problem—Conditions at Lane County Camp.



VESUVIUS STAMP MILL. MODERN-PLANT JUST COMPLETED IN BOHEMIA DISTRICT.

Bohemia district, in Lane county, has been before the world prominently for the past three years through renewed activity in equipment and development. A large number of properties there are being opened, a standard gauge rail line has been completed to within 15 miles of the producing section, and one of the largest plants of the state is being finished on a prominent Bohemia mine this year. The complete 10-stamp mill has been erected on a second property. Before the year closes the district will be producing, and 1905 promises to witness an output never approached in earlier days or crude equipment and long hauls.

Great activity is witnessed within an area of seven to eight miles square, but beyond this on either extension of the mineral zone is found much of development work, which has indications now of enlarging Bohemia district to 20 or 25 miles in length and seven to 10 in width.

**Many Oxidized Shoots.**  
Unlike popular rumor relative to the district, Bohemia has considerable bodies of highly oxidized ore at the greatest depth yet attained. In some of the properties the ore is free milling almost exclusively, while again sulphide and galena shoots are closely associated with oxidized shoots. In the Vesuvius and the Musick mines, where the greatest depth of the district—360 to 250 feet—is attained, ore is found on the lowest levels in as free state practically as at the surface, which is explained by the fact that all work is above permanent water level. Sulphide and galena ores are the usual types exhibited from the district. These, with the beautiful and rare lead carbonate, or cerussite, found in some parts of the Musick mine, give the impression that the Bohemia has a very shallow free zone.

All milling plants of the district are primarily amalgamating, with concentration a secondary saving. The new mills, which contemplate the treatment of ores from great depths adhere to the same general methods. It may be said that Bohemia has no greater percentage of base values than the average mining district of Oregon, and that with a rail line within nine to 10 miles of the principal producers of the near future, the district will have no further transportation handicap to retard operations.

**Near Calapooia Summit.**  
Lefty as its aspirations, Bohemia district has a high average altitude for Oregon, mines being from 4,000 to 6,150 feet above sea level in the Calapooia range. Higher elevations are slightly above the timber line, but a dense forest clothes most of the mineral belt. Water near the summits of peaks and divides in a district pre-eminent above surrounding ground, is expected to be scant.

**Low Elevation Properties.**  
With headquarters at Mineral hotel, the Golden Rule company has been carrying on development on the north side of Sharp's creek this year. There has been between 700 and 1,000 feet of work done on this property and the company projects more extensive development.

**Near the Golden Rule base of operation** is found the Clarence group, on which two veins, five and three feet wide, respectively, have been opened by short tunnels and surface cuts. On another branch of Sharp's creek is the White Swan group, owned by the company of that name. On this property is a surface indication of a vein 40 to 50 feet wide from which ore has been taken of low value. Streaks are said to carry commercial grade.

**The combination property on Quarts** creek is opened by about 400 feet of work, giving a fair depth, proving the vein to average about 10 feet in this work.

**Vesuvius Development.**  
The Vesuvius, owned by the Vesuvius Mining company, P. J. Hard, manager, is one of the most thoroughly developed properties of the camp. There are 16 claims in the group, eight of which have been patented. This large mineral estate lies on the Sharp's creek side of Fairview and Bohemia mountains, extending from the summit near the Bohemia postoffice to an elevation 1,500 feet below the highest point. The slope is at an angle of about 25 degrees from the horizontal, the surface is smooth, the lower sections are heavily timbered and a good wagon road has been graded from the foot of the mountain to the summit, crossing the Vesuvius group.

Approximately 5,000 feet of development has been done on the entire group. The main shaft is 1,250 feet long, being a drift for most of that length, on the Vesuvius vein. From this level a raise has been made 350 feet to the surface on the opposite side of the Fairview peak, and later work has been prosecuted to explore the vein and intersecting fissures. Between 400 and 500 feet below this level another tunnel has been started, and is in about 300 feet following a cross vein to the Vesuvius. In the next 700 to 800 feet this drive will cut the Vesuvius vein, when a drift is to be extended on this fissure under the upper workings, raises made and ore chutes made down to the lower level. A considerable amount of surface work that has been in the nature of prospecting and further development of the vein above the main shaft. This ore has been blocked for stopping, which is to commence in a very short time.

**New Mill Finished.**  
Manager Hard has just completed a modern mill and aerial tram. The mill is 600 feet further down the slope than the lower tunnel, but being a vertical drop of 400 feet in that distance. A single-cable aerial tram has been completed connecting the main shaft with the mill. Amalgamating and concentrating appliances are installed for saving values. The mill building would accommodate 15 or 20 stamps, but only 10 have been installed for the present. The stamps weigh 1,000 pounds, mortars are of the improved Hammond pattern, two concentrating tables are used, and a 15 horsepower steam plant provides energy. The mill is modern in every respect and will be put in commission within a few days.

**Monte Rico Ridge.**  
On Monte Rico ridge, to the northwest of the Bohemia postoffice, is found the Royal Flush group, owned by the Royal Flush Mining company. Alexander Lundberg and John Lindquist are the principal stockholders. Seven claims comprise the group, crossing which are two large veins. Development on these fissures is in two tunnels, each of which has been driven less than 200 feet,

but a very limited drainage basin in Bohemia suffices to generate a considerable stream, because of the abundant precipitation and late snow beds. Horse Heaven creek flows 500 to 600 minor inches in the dry season within a mile of its very origin.

The topography is rough, high elevations alternating with deep erosions in rapid succession, most of the streams flowing through what might be termed canyons, because of the precipitate slopes. Around Bohemia, Fairview and Grouse mountains, three sister peaks forming the center of the district, the slope is so steep that little of the soil clings to the formation, and surface pitches of 45 degrees are being penetrated by tunnels, giving a foot depth for a foot ahead. Road building under such conditions have been difficult, and the heavy expenditures made by individual companies has consumed a large proportion of early development funds.

Triumphing over all, the numerous companies have worked on engineering lines, with the result that many fine highways laid out on grades not to exceed seven per cent lead to the various properties of prominence. Wood, water, and good tunnel sites, three of Oregon's great facilities, are especially pronounced in Bohemia.

**Formation and Ore.**  
The universal formation is andesite. Dips are from the conical central peaks toward the west, as a rule north 40 to 50 degrees west, an average of 51 observations being north 71 degrees west. Dip of veins is as a rule at a high angle, and varies from 70 degrees northwest to 70 degrees southwest. The prevailing dip is to the southwest, something like 70 to 80 degrees from the horizontal.

Gangue is quartz as a rule, although replacement of the andesite being in complete in some fracture zones. Pyrite enrichment is the most common, sphalerite, calcopyrite and galenite occurring next in order of their naming. An average of values in a fair commercial shoot is difficult to obtain. Chunks of galena and cerussite have been kept for exhibit, carrying thousands of dollars to the ton, and the 1,000 tons of concentrates shipped from the Musick after the five-stamp mill had been run for a period ran much above \$100 per ton.

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Work is being pressed there this summer. The Scorpion group, near, is owned by Lundberg, Goets and Lindquist. The owners were arranging to do considerable work there this season.

The Pittsburg Mining company, of which William Shane is manager, owns the Pittsburg group, on Monte Rico ridge. This is a large group, which is being opened by 10 or 11 tunnels that have not yet attained much depth. The showing is pronounced good. The corporation is close, being backed by a few individuals.

The Red Side group, adjacent, is owned by Shank and Fisher, and a small amount of work has been done there. The Hoosier, consisting of two claims, across which strike two veins, is being opened by two tunnels. Fisher & Martin are the owners.

In next Sunday's issue the remaining prominent properties of Bohemia will be described briefly.

## MAY ERECT A BIG ELECTRIC PLANT

HOOD RIVER HAS NEWS OF REVEALED SURVEYS AND CONVEYED REAL ESTATE—PORTLAND AND EASTERN CAPITALISTS COMING TO FINANCE THE WORK.

(Special Dispatch to The Journal.) Hood River, Or., Oct. 1.—J. J. Croft of Portland, who is heavily interested in the Tucker Power company, an incorporated concern formed three years ago for the purpose of erecting a power plant at the Tucker bridge, five miles up the stream of Hood river, has been in the city showing an eastern capitalist over the ground of the proposed Tucker power plant.

of the surveying party have been made with accuracy, but reliable information brings the news that a dam is to be constructed six miles up the Little White Salmon and the water conveyed in a two-foot iron pipe to the top of the bluff, at the old location of the Bostwick mill, where a 1,000-foot fall is secured to the Columbia river. Here a power house will be constructed for generating electricity that will be transmitted to Portland.

While the Portland stockholders of the Columbia River Northern railway company are known to be interested in this extensive undertaking, rumor has it that eastern capitalists are also connected with the enterprise. The promoters are experiencing some trouble in securing rights of way for their pipe line through the lands of the settlers. The company has bought outright sufficient land for the location of the dam.

The Winans brothers, who constitute the Hood River Lumbering company, announce that they have purchased from E. W. Hopkins of San Francisco, the land lying north of the O. R. & N. track, and including a pond suitable for holding logs. I. N. Day of Day brothers, Portland, was in the city recently and conferred with Winans brothers, concerning the establishment of a new sawmill here. It has not been ascertained what will be done in the matter.

The far Chinese peasants are falling numerously now.

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