

PRELIMINARY REPORT

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Item 8

EASTERN STAR GROUP OF MINING CLAIMS.

Location.

The claims are situate in the Gold Circle Mining District, nine miles east, by wagon road, from Gold Circle and about twenty miles west of Tuscarora on the edge of Squaw Valley, Elko County, Nevada.

Property.

Four full claims known as and called Eastern Star No. 1, Eastern Star No. 2, Eastern Star No. 3 and Eastern Star No. 4, comprise the group. Two of the claims lie in a northerly and southerly direction and two in an easterly and westerly direction. The side lines so run as to protect all apex rights.

Development work.

The development work consists of one working tunnel about 450 feet in length, which strikes the ledge 100 feet from the portal and continues 350 feet on the ledge; high grade values showing for 140 feet, the remaining 210 feet showing a well-defined ledge with lower values. At the point where the tunnel strikes the ledge is a winze 14 feet deep and 6 feet wide, showing high grade ore 14 inches wide. Seventy-five feet north, the main winze, 76 feet deep, shows the same high grade ore from bottom of tunnel level to bottom of winze without a break or fault. Six feet from the bottom of this winze, a small drift runs south 14 feet, showing the same ore in the breast, but of a higher value; also at the same level a drift runs 12 feet north showing the same high grade ore. Directly above the main winze a raise driven to the surface 75 feet (making a total depth of 151 feet) shows ore all the way.

Ore in sight.

There is at present, with the small amount of development work done, about \$70,000 worth of ore in sight in mine and dump.

Character of ore.

The character of the ore is ribbon quartz, showing native silver, native gold and telluride. The vein is a true fissure vein of a banded structure, lying in an intrusive rhyolite dyke, the dyke coming through the andesite and being fifty feet wide on the surface and traceable for a distance of 500 feet. After the dyke reaches the portal of the tunnel it pitches off into the flat, the flat being covered with erosion from above. It would appear probable, therefore, that the ore extends farther south, and especially as the south end workings show high grade streaks.

Values.

Five samples taken from the high grade streak (from six to ten inches wide) in the south drift of the 76-ft. winze, show an average assay value of \$1400 per ton, gold and silver, gold predominating. * All ore mined from sinking winze is of good milling grade.

Water:

In the bottom of the main winze, the drift to the south has a flow of water of about 10 gallons per minute, the water level being 4 feet below the working tunnel. There is also a thermal spring 40 to 50 feet south of the portal of the tunnel, and about 4 feet below the level thereof, the water of which has a

*In the proportion of 13 of gold to 1 of silver.

temperate heat and flows about 15 gallons per minute, providing sufficient water for all milling purposes.

Transportation. The property is located thirty-five miles by level, much-used wagon road in good condition, from Red House, a station on the Western Pacific Railroad.

Mining Cost: Owing to the character of the vein, the mine can be worked at a very reasonable cost, requiring but a small amount of timber, the walls being extremely hard.

Conclusion. My examination of the property and careful study of the formation, character of ore and conditions generally, as well as the known increase in value and quantity of ore from the surface to bottom of present workings, a distance of 151 feet, leads me to conclude that further development in depth will show a mine of great commercial value.

Respectfully submitted,

(Sgd.) J. H. C. Cunningham

Reno, Nevada, December 6th, 1911.