

EXPLORATION AND DEVELOPMENT OVERVIEW AT THE HOLLISTER MINE, ELKO COUNTY, NEVADA

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The Hollister mine is located 80 miles east of Winnemucca, Nevada, in Elko County. Hollister mine is an epithermal gold-silver resource and is situated on the eastern margin of the Northern Nevada Rift and in the east-central part of the Ivanhoe Mining District. Vein adularia has been dated at 15.19 +/- 0.05 Ma similar to other epithermal gold-silver deposits along the rift. Veins in the Hollister resource strike E-W to WNW and appear to have developed as ladder veins between strands of a major N10°W, left-lateral strike slip fault system. Both the veins and the strike-slip fault system are blind overlain by 250 to 500 feet of Tertiary volcanic cover.

Gold mineralization and hydrothermal alteration at Hollister are associated with an episode of bimodal volcanism between 16 and 14.9Ma consisting of rhyolite, basaltic andesite, felsic tuff and tuffaceous sedimentary rocks. This volcanic and volcanoclastic sequence was erupted onto a relatively low-relief unconformity. Pre-Miocene basement consists of interstratified quartzite and argillite of the Ordovician Vinini Formation.

Quartz-adularia veins are hosted by the Ordovician Vinini Formation (Valmy correlative) and are more or less centrally located beneath the extent of the disseminated mineralization in the Tertiary volcanic rocks. The veins terminate vertically at the Tertiary-Ordovician unconformity and the gold mineralization dissipates into disseminated form over a relatively small distance above the vein throats. An extensive, paleo-horizontal, chalcedonic silica cap is developed above the structural source of the mineralizing fluids.

An ongoing underground development drilling program has delineated proven and probable reserves of 868,500 tons grading 1.01 opt gold and 4.3 opt silver totaling 875,000 ounces gold and 4,300,000 ounces silver. Peripheral to the Hollister vein system, Great Basin Gold Limited is conducting a surface drilling program exploring for new vein structures.