

(Mineral Co.)  
58, 7N, 34E

Blue Jacket

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The Blue Jacket property consists of 3 unpatented lode claims known as the Blue Jacket, Land 2 and the Copper John, situated about 3 miles southwest of Luning, the shipping point.

The property is accessible via 3.4 miles of unimproved road leading west from U.S. Highway 95, from a point 1.1 miles south of Luning.

The Blue Jacket workings are on the north limb/an easterly trending anticline in the Luning limestone of Upper Triassic age. The limestone is intruded by a light gray, fine-grained porphyry that appears to be a sill. The porphyry has selectively metamorphosed certain thin beds of limestone to quartz-garnet-epidote tactite in 6 parallel beds within 80 feet of the porphyry. An inclined shaft, near the hanging wall contact of the porphyry, opens a shear zone between porphyry and limestone. This zone parallel to the limestone bedding is about 8 feet thick, strikes N. 30° E., and dips 45° NW. The fracture filling consists of tactite and silicated limestone, limestone, and gouge with breccia fragments being cemented by incrustations of chrysocolla, malachite, and azurite. Pyrite is present and much of the zone is stained with iron and manganese oxides.

The tactite occurs as tabular masses in the shear zone in thicknesses of 1 to 2½ feet. In these tactite lenses, scheelite occurs mostly as disseminated small grains, but crystals as much as 1/8 inch in diameter are not uncommon.

Samples taken from 2 parallel tactite lenses exposed in the bottom 80 of the 35 foot shaft indicate an ore grade of 0.06 to 0.2 percent WO<sub>3</sub>.

Development workings for copper consisted of 3 inclined shafts averaging about 50 feet in depth and numerous pits and short adits. Exploration work for tungsten included bulldozer scraping, shallow test pits, and a 35 foot shaft inclined 45°.

No tungsten ore has been produced or shipped from the property.

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