

The Star property was a part of the 160 acres of deeded land, 3 patented and 11 unpatented lode claims held by the Gold, Silver, and Tungsten Co. which later acquired by the Rare Metals, Inc. The deposit is about 6 miles east of the Nightingale and about 62 miles by road south and west of Lovelock, the supply and shipping.

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The early development of the property was for copper; however the percentage of copper in the ore was insignificant. The production of tungsten ores commenced in 1944, which were concentrated at the Tulon mill, 12 miles south of Lovelock.

The predominate rock in the area is granodiorite, which contains a thin segment of limestone as a pendant. The sedimentaries have a general strike N. 85° W. and dip 75° N. Along the north contact an elliptical zone of tactite 500 feet in length was developed by 2 open cuts, 3 trenches, a 10-foot shaft, and an open pit 50 feet square. In the pit, the mineralized zone attains a width of 40 feet, but the mineralized extensions to the east and west gradually diminish and finally pinch out.

The metamorphosed zone is comprised of the usual contact minerals, garnet and epidote, associated with varying amount of quartz and iron as limonite. The tungsten as scheelite occurs in the tactite as disseminated crystals that ranged in size from 1/16 to 1/4 inch. Parallel to the zoning, the deposit is cut by several small stringers that contain copper as malachite, bornite, and chalcopyrite.

Workable ore segments have been removed from the property. It is reported production of ore amounted to about 16,000 tons that contained on the average about 0.5 percent WO_3 .

Alpine

USBM Unpubl. data, 1963

The Alpine property consists of 7 unpatented lode claims situated on the summit and west flank of the Nightingale Range. The mine is on the steep