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1.

STAR MINE

(276)
Item 35

Other names Griff mine.
Location Sec. 26, T.31N., R.33E.
Ownership Winnemucca Mountain Mines Co. (1957).
Discovery Unknown.
Production None.
Geologic type

The Star mine is located in the El Dorado mining district on the north side of Eldorado Canyon in the west flank of the Humboldt Range (see U. S. Geological Survey, Inlay quadrangle map).

Little is known about the history of the mine. In recent years, the Griff Mines, Inc. worked the mine for ^(tungsten) scheelite under a lease from Gus Rogers and Ed Bottombly of the Winnemucca Mountain Mines Co. No antimony has been produced.

The mine is developed by a number of adits and shafts, only part of which expose antimony mineralization (fig. 3). Only a few tons of antimony ore are in sight in the workings and on the dump.

Gray, massive, locally-highly-contorted limestone, generally striking N. 50°E. and dipping 65°-80°N., crops out at the mine. It is Middle Triassic in age. Several diabase(?) dikes, having quite irregular strikes and dips, intrude the limestone.

Antimony occurs as stibnite and antimony oxides in pods, streaks and individual grains, commonly in quartz veins and masses, in or close to the dikes. Small amounts of tetrahedrite are associated with the stibnite. The tetrahedrite is usually partially oxidized to malachite and azurite. Pyrite is also quite common in the unoxidized zone.

The occurrence of antimony in this mine is similar to that in the Bradley, Motor and Panther Canyon mines.

Scheelite occurs in mineable quantities in the lower adits, but no antimony minerals were noted. Scheelite is rare in the upper adit where the antimony and copper mineralization occurs.

The diabase dike has been almost completely altered to carbonates, chlorite, and clays, and contains numerous pseudomorphs of "~~limonite~~" after pyrite, scattered through the groundmass. In some areas the dike has been almost completely silicified with only a few plagioclase grains remaining unaffected. In thin section, the silicified rock commonly shows a relict diabasic texture. The limestone has been recrystallized in places along the dike.

TABLE __. Analyses of Samples from the Star Mine

No.	Location	Description	Antimony %	Selenium %	Gold %	Silver %
73	Upper prospect pit	Quartz-stibnite-antimony oxide stringer	12.83			
74	Upper adit	12-inch vein	40.27			
75	Stockpile	Vein material	21.03			
76	Upper adit	Large quartz-stibnite pod	11.04			