Warlotta diptribt - SILVER STRA DIST.

A number of tungeten prospects occur at elevations of 6,000 to

7,000 feet in the hills west of Tools March 4 to 8 miles southwest of the described town of Earletta, T. 4 H., R. 32 E., Hawthorne quadrangle.

The unimproved read from Marietta to Suntoon Valley passes near the

prospects 8 miles west of Marietta.

In Soptember 1942, C. W. Fletcher, Frank Watkins, and associates located 21 claims covering the known tungsten occurrences. These claims were named, from east to west, the Defender, Pine Grow, Vitamine, and Denham's Dump groups. Tungsten mineralization was found in several bodies of schoolite-bearing tactite, and in a small, high-grade schoolite-wolframite vein. Only one of the occurrences, the Defender, was reasonably well exposed by nature; the others were mantled by alluvium and slide rook, and exposed only by trenching.

The pro-Tertiery rocks of the a rea are a series of folded and metamorphosed aedimentary rocks invaded by granite. The metamorphic rocks are mostly sandstone and conglomerate, but also include same limestone and a foldspar-epidote-amphibole rock with a conglomeratic texture. According to Muller and Ferguson, those rocks are a part

Muller, S. W., and Forguson, H. C., Mesosoic stratigraphy of the Hawthorne and Tomopah quadrangles, Nevada: Bull. Gool. Soc. Am., vol. 50,,pp. 1575-1624, 1939.

No

of the Dunlap formation of lower Jurassic age.

The tungsten occurrences are along the north and east edge of the metemorphic rocks at or near the granite contact. They lie in an east-ward-trending belt nearly 5 miles long that includes the only limestone seen in the area. The limestone beds are thin and lenticular, and the ore bodies that replace them are probably similar in character.

The tungsten content of the tactite bodies is in general low.

ranging in the mineralized portions from 0.2 to 1.0 percent of WO3.

The schoolite contains considerable molybdenum.

Defender

The Defender prospect is at the east end or the tungsten belt on a body of dense garnet tactite 240 feet long and 20 to 40 feet thick (fig. 123), bounded by granite on the north and east, by horn-

Fig. 123. Geologic map and section of the Defender prospect, Marietta district, Mineral County, Nevada.

fels on the south and west. The tactite dips 300 - 650 SW., and is

No

exposed to a depth of 50 feet by erosion.

somewhat is irregularly distributed throughout the tactite with an everage content of about 0.2 percent of MO3. Although portions of the rook contain 0.5 percent or more, the body had not been adequately sampled in 1943 and it was not known what grade of material could be produced by selective mining.

Dough God

The Dough God prospect is opened by a surface cut and an adit 90 feet long, driven along the strike of the ore some (fig. 124).

Fig. 124. Goologic map and section of the Dough God prespect, Earletta district, Mineral County, Nevada.

A tactite bed averaging 2 feet thick, inclined 42° SE., lies against hornfels on the footwall of a bed of marble 10 to 20 feet thick. A parallel bed of marble and tactite, containing 1 foot of ore, is exposed 85 feet north of the main body in a surface cut, and similar

still zones might lie/farther toward the granite, which is exposed several hundred feet north.

The tactite in the adit and surface cuts is 80 feet long and pinches out at both ends. It contains fine-grained schoolite through-out and averages about 1 percent of WO3 as shown by assays and mill tests. Papts of the garnet tactite contain abundant fluorite.

Pino Crow

The Pine Crow Ko. I prospect is one-half mile west of the Dough God. Scheelite-bearing tactite, in a body about 100 feet long and 5 feet wide, is exposed in a number of tranches and pits. The tactite is interbedded with hornfels that strikes in the same direction as the beds at the Dough God prospect, but dips at flatter and more valuable angles. The rock contains more powellite than the Dough God ore, and the grade is lower.

A vein containing both wolframite and scheelite is exposed a few

4

hundred feet northwest of the Pine Crow Ec. 1 prospect. The vain ecoupies a steep, westedipping fault that strikes northerly at right angles to the tactite bodies in the main tungsten belt. Granite is the footwall of the vein, metamorphic rocks the hanging wall.

The voin consists of 5 feet of gouge and brecois resting on 6 inches of quarts on the granite footwall. It contains high-grade streaks of scheelite and wolframite, both in the quarts and as nodules in the gouge. The quarts contains small crystals of light-blue beryl along the granite wall, and some bismutosphaerite after bismuthinite.

The vein is opened by several pits for 60 feet along the outerop.

The high-grade streak, only a few feet long, was being dug out in

1943 in the hope of getting a few tons of sorted ore containing 10

to 20 percent of NO₃.