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Item #5

ARROWHEAD DISTRICT

LOCATION

The Arrowhead district is located on the north end of the Reveille Range, immediately north of the Reveille mining district in Township 3 North, Ranges 51-1/2 and 52 East, Nye County.

HISTORY

The district was formed about 1919 and the two major companies in the district were incorporated in that year (Lincoln, 1923). The district was most active in the early 1920's as ten companies were organized for work in the district during 1919-1922 (Kral, 1951). Kleinhampl and Ziony (1984) credit the district with about \$13,000 in production for the years 1920-1932 and 1939. According to Kleinhampl and Ziony (1984), the district was first named the Needles district, although no use of this name continues today. There was no activity noted in the district when it was visited in the fall of 1985.

GEOLOGIC SETTING

The district is underlain by Tertiary volcanic rocks which are complexly faulted. Most of the mines and prospects of the district are confined to a narrow, north-trending zone of altered welded tuff and intrusive rhyodacite. In this zone, altered Miocene welded tuffs form the upper plate of a thrust sheet that overlies a thick Oligocene welded tuff unit. The Oligocene unit, the Monotony Tuff, is interpreted to be an intracaldera unit within a fault-disrupted block of a large caldera (Ekren, Rogers, and Dixon, 1973). The Arrowhead district is on the western margin of this caldera feature. Kleinhampl and Ziony (1984) noted altered Paleozoic rocks to be present on the dump of the Arrowhead shaft and suggested that the shaft may have penetrated the thrust fault and entered the underlying Paleozoic rocks. A preferred alternative is that the altered sedimentary rocks encountered in the deep workings represent blocks of Paleozoic rock within a megabreccia related to the rim of the inferred caldera.

ORE DEPOSITS

The two main mines of the district were the Arrowhead and the Arrowhead Extension, located northwest and southeast of the old town of Arrowhead. Both deposits are within propylitized, silicified welded tuff that contain disseminated pyrite. At the Arrowhead Mine, silver mineralization occurred in two ore shoots that formed along a vein cutting the altered rocks. Vein material present on the mine dump contains calcite and minor amounts of an unidentified gray sulfide along with pyrite.

There has been no activity in this district for some time, and no activity was noted in 1985.

GEOCHEMICAL ASSOCIATIONS

Two ore samples, one taken from each of the major mine dumps in the district, reported silver values of 0.7 and 20 ppm, gold values of nil and 0.1 ppm, arsenic 100 and 980 ppm, and antimony 85 and 45 ppm. Barium was moderately

anomalous in both samples and base metal contents were very low.

SELECTED REFERENCES

- Ekren, E. B., Rogers, C. L., and Dixon, G. L. (1973) Geologic and Bouguer gravity map of the Reveille quadrangle, Nye County, Nevada: U.S.G.S. Map I-806.
- Kleinhampl, F. J., and Ziony, J. I. (1984) Mineral resources of northern Nye County, Nevada: NBMG Bulletin 99B.
- Kral, V. E. (1951) Minerals resources of Nye County, Nevada: NBMG Bulletin 51.
- Lincoln F. C. (1923) Mining districts and mineral resources of Nevada: Reno, NV, Reno Newsletter Publishing Company.