

1900 0008

PROPERTY NAME: Sample location 1764

OTHER NAMES: New Freiberg Project

MINERAL COMMODITY(IES): Zn, Cu, Ag?

TYPE OF DEPOSIT: Irregular replacement vein in limestone, contact metasomatic

ACCESSIBILITY:

OWNERSHIP: See sample location 1761 &amp; 1762

PRODUCTION:

HISTORY:

County: Lincoln Item 8

Mining District: Freiberg

AMS Sheet: Caliente

Quad Sheet: Caliente 2° sheet

Sec. UNSURE, T 1N, R 57E

Coordinate (UTM):

North 4200200 m

East 623200 m

Zone 11

DEVELOPMENT: Clusters of small workings are scattered throughout canyon. Entire canyon (mouth & interior) has overprint of drill roads & related surface exploration. Some workings are obliterated & dumps have been removed & stock piled at mouth of canyon. Canyon contains several old cabins.

ACTIVITY AT TIME OF EXAMINATION: Area is staked & the site of recent (3-5 years) exploratory drilling & reworking of dumps.

GEOLOGY: Sampled working consists of a shaft, 10-15' deep & inclined to the west. The minesite is underlain by carbonates of the ordovician Pogonip Group which are intruded by a Tertiary granite stock outcropping 2 ridges to the south. Near the shaft, the limestones are slightly silicated, bleached &/or recrystallized. Light green & white calc-silicate developed adjacent to the vein is dense & granular in texture.

The shaft exposes an irregular replacement vein of Fe-rich, sulfide-bearing tactite developed within greenish-white marble or recrystallized limestone. Altho the limestone beds are visibly fractured, for the most part the medium beds strike N5E & dip 25E(SE). Brown to green-colored tactite occurs in an irregular zone which generally trends north. The replacement vein is steeply inclined to the west at a high-angle to the bedding but also extends outward along bedding planes east of main vein. Some tactite has also developed along E-W fractures perpendicular to the main body. The main N-S body has irregular contacts with the wall rock & contains large gossan pods. The body may have developed along a set of intersecting fractures or fissures.

The dump is sorted into two different kinds of tactite; 1. Olive-green tactite containing fine-grained chalcopryrite & yellow sphalerite 2. Dark (Fe-rich) red-brown-green tactite containing abundant, crystalline, black sphalerite, some pyrite & associated with or contains pods of hematitic gossan. The tactite consists of an intergrown mixture of epidote, chlorite, diopside(?), calcite & quartz. Sample was lamped & no scheelite was observed. Fe-rich, honeycomb gossan also found in abundance on dump.

Several small, N-S-trending dikes noted on drive out of canyon, but none immediately in area of workings. Tertiary granite stock outcrops with reddish, non-resistant weathered appearance on ridge south of this location. Stock or related dikes are source for alteration & mineralization observed here.

REMARKS: Sample 1764 - Dark green-brown tactite with abundant brown black sphalerite.

REFERENCES: NBMG Bull. 73.

EXAMINER: Bentz/Smith

DATE VISITED: 10/7/83