PROPERTY NAME: Lone Wolf Mine

Fern # 4

MINERAL COMMODITY(IES): W, Cu

TYPE OF DEPOSIT: Contact, skarn

ACCESSIBILITY: 


PRODUCTION: See CRIB

HISTORY: 

DEVELOPMENT: Several west to south-west trending adits & open stopes. One deep N-S trench by road. Freeport? has done some drilling at higher elevations NW of this mine. Several old buildings on property.

ACTIVITY AT TIME OF EXAMINATION: None, most recent activity is probably the trenching which looks about 2 years old.

GEOLOGY: Host rocks are dark grey, massive to medium bedded limestone & silty limestone. The stope exposes contorted limestone beds which are about 1/2 to 1' in width, SW dipping, & thoroughly silicified to a greenish skarn. The skarn is composed of garnet, epidote & calcite & is quite dense. Most of the rocks contain very fine-grained sulfides & coatings of Cu & FeOx's. Some of the rocks show clots of chalcopyrite & thin lenses of copper oxides & sulfides. Many samples are veined by calcite & quartz. Sample 190 consists of skarn with sulfides & shows minor scheelite when lamped.

A resistant outcrop of biotite - plagioclase-quartz porphyry lies above the adits. The rock appears unaltered. In outcrop, a prominent NW-SE joint system is developed in the intrusive. According to GSA Bull geologic map, the porphyry above the adits is part of the main N-S trending body of the Nannie's Peak intrusive.

REMARKS: Sample 190

Photos.

REFERENCES: GSA Bull., V.70, no. 5, May 1959, p. 539-564.

EXAMINER: Bentz/Smith  DATE VISITED: 7/1/82