0190 0011

(43)

PROPERTY NAME: Tennessee Tungsten Mine(Garnet Tungsten Mine)*see below

OTHER NAMES: (Garnet Group, Paul claims)

MINERAL COMMODITY(IES): W, Mo, Cu, various sulfides

TYPE OF DEPOSIT: Contact

ACCESSIBILITY:

OWNERSHIP: Feb. 1982 plat shows Paul claims owned by Tony Bogdanich & Garnet Group owned by Price Montrose et al.

PRODUCTION: Not known.

HISTORY:

County: Elko Jam 12

Mining District: Alder

AMS Sheet: Wells

Quad Sheet: Rowland 15'

Sec. 17, T 45N, R 56E

Coordinate (UTM):

North 4 6 2 7 3 0 0 m

East 0 6 1 0 1 0 0 m

Zone +11

DEVELOPMENT: Benched, west-facing open pit on north west side of Tennessee Mtn. A few open cut & drill roads occur above pit along contact zone. The entire mountain, especially to the south, is dotted by many workings, most smaller in size than this one.

ACTIVITY AT TIME OF EXAMINATION: No sign of current activity, but mine appears to be intermittently active. (Last mining activity probably in 1970's)

GEOLOGY: The open pit explores the contact zone between intrusive rock (dike?) & limestone. The intrusive rock is well exposed on the south west side of the pit. It forms blocky outcrops & weathered slopes. Close examination of the intrusive reveals that it is a coarse-grained light grey, quartz monzonite containing coarse "books" of biotite aligned in a sub-parallel orientation (flow foliation). The intrusive is Fe-stained along fractures & contains Fe-stained clots, possibly after pyrite. The body is dike shaped in appearance.*

The contact zone between the intrusive & limestone is sharp & well defined, although it is undulatory along strike. The zone generally strikes N70-80W & is steeply inclined. Near the contact, the intrusive rock is highly altered (kaolinized) & weathered. On the north side of the contact there is a good exposure of bedded tactite which is fractured & cut by quartz veins. The tactite generally is coarse-grained, banded & mostly composed of garnet-epidote & quartz with some calcite. In places, garnets & epidote reach dimensions of 1/2 - 2 ". The tactite body(+bedding) trends NW & is exposed for about 150' along strike.

White to smokey grey quartz veins cut the tactite at a high-angle to banding along a N20W orientation. The veins are 1-6" in width & contain, in places, sulfides such as pyrite, chalcopyrite & bornite in addition to coarse clots & rosettes of molybdenite & powellite. Molybdenite & tungsten (shown to be powellite when lamped) also occur in the dense, garnet-epiodte tactite. Slicks were noted along some of the veins & high-angle, limonitic fissures cut portions of the tactite outcrop.

NBMG Bull. 67 shows mine located on contact zone between the Coffeepot stock & phyllites & limestones of the Cambrian/Ordovician Tennessee Mtn. Fm.

REMARKS: Sample 1100

Photos.

* This may be part of or the same as the Garnet Tungsten mine described by Smith, p. 21. Property named derived from sign located on road to mine.

** According to several descriptions of the deposit, dikes & sills of granodiorite extend westward into the sediments from the main intrusive body of the Coffeepot stock.

REFERENCES: Smith, Mineral Resources of Elko County, NV., USGS open file 1976-56.

EXAMINER: Bentz/Smith

DATE VISITED: 9/82