7370 0006

White Pine general Item 21

PROPERTY NAME: Gossan ?

OTHER NAMES:

MINERAL COMMODITY(IES): Cu?

TYPE OF DEPOSIT: Contact metasomatic, replacement

ACCESSIBILITY: Rd. in canyon is rocky, but passable.

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Eureka

Mining District: Huntington Creek

AMS Sheet: Ely

Quad Sheet: Railroad Pass 15'

Sec. 25, T 25W, R 54E

Coordinate (UTM):

North 4|4|2|9|8|5|0 m

East 0|5|9|9|2|7|5 m

Zone +11

DEVELOPMENT: Several adits, most caved, and several cuts.

ACTIVITY AT TIME OF EXAMINATION: None

GEOLOGY: Rock on dumps of lower workings consist of unaltered dioritic intrusive with felsic veinlets. No mineralization was observed at lower workings.

Sample 431 was collected at main working consisting of a large open cut ≈ 40' wide with large dump. The rocks exposed in the cut are thin to med. bedded silicated limestone, with minor shales and/or clastic rocks. A bleached, finely crystalline (recrystallized) limestone is exposed in the cut are beneath and to the W of the Altered silicified rock exposed in the cut and is the host rock for this deposit. (Probably the Penn., Ely Limestone

The skarn rock exposed in the N, S and E wall of the cut is dark green, dense, fine grained and garnetiferous. Dark green neeldes of diopside? also comprise the rock. The exposed mineralized zone is ≈ 20-30' wide and centers around a fine-coarse grained granodioritic or dioritic sill(?) which is ≈ 3-4' thick. The sill strikes NS and sits about 8' from the top of the cut. Pods and fracture coatings of CuOxs occur in the skarn rock near and adjacent to the intrusive. Pods of gossan also occur in this horizon. The skarn displays sub-parallel, siliceous veining next to the sill.

The intrusive contains phenocrysts of hornblend and biotite, but is not mineralized. Ver fine felsic veins cut the sill and grade outward from the body into the host rock. Irregular clots of very mafic concentrations in the intrusive are cut by felsic veinlets, indicating more than 1 phase of igneous activity. In turn, the felsic (feldspar and quartz) veins are cut by thinner, randomly oriented siliceous veinlets.

The skarn rock and silicified veins are cut by several hi ¢ to moderate dipping, minor faults.

Sample 431- Tactite with Cu Ox, pyrite and chalcopyrite. Possible chalcocite.

REMARKS: Photo:
Larry R2 - #17 - Upper pit with sill(?), sample loc. 431
#18 } Workings on hillside near sample loc. 431.
#19 }

REFERENCES:

EXAMINER: Bentz/Garside

DATE VISITED: 8/30/81