

0740 0008

(217)

PROPERTY NAME: Duluth Mine

OTHER NAMES:

MINERAL COMMODITY(IES): Au, Ag

TYPE OF DEPOSIT: Epithermal; fissure veins and silicified fault zones

ACCESSIBILITY: Recently graded road

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Nye Item 10

Mining District: Bruner

AMS Sheet: Millet

Quad Sheet: Burnt Cabin Summit 7 1/2

Sec. Unsurveyed 14N R 37E

Coordinate (UTM):

North 4 3 2 3 9 5 0 m

East 0 4 3 3 0 3 3 m

Zone 11

DEVELOPMENT: Two adits with stopes above (probably several hundred meters) plus 2 shafts (15-20m)
Underground workings not examined.

ACTIVITY AT TIME OF EXAMINATION: None - possibly no work except sampling since 1920's or 1940's?

GEOLOGY: The wallrocks here are Tertiary quartz-biotite-feldspar rhyolites; Possibly both crystal-vitric tuff and intrusive rhyolitic are present - contacts obscured by alteration. The mineralization is epithermal precious metal; mineralized zone are fault breccias. Two mineralized fault directions noted are, N65- 75E, 90° and N5W, 60NE. The ore is all oxidized to iron-oxide minerals, quartz and probably free gold. Drusy quartz occur along open fractures (crystals up to several cm long) coated with iron-oxides and minor supergene? kaolinite?. Biotite near the mineralized zones is altered to white mica, pseudomorphs of pyrite were noted. Some quartz after lamellar clacite is present (included in sample 402) Stope widths are 1m. The mineralized crush zones are often moderately to strongly silicified as well as having drusy quartz along open fractures.

The mineralization here is similar to the Paymaster Mine but less argillic and more silicification. The Paymaster has veinlets and stockworks over a 20m zone, while mineralization here seems more confined to breccia and fault crush zones.

Adularia is possible in these veins, but was not noted by visual inspection.

Wallrock is crystal - vitric tuff and intrusive rhyolite with contacts obscured by alteration.

Mineralization is epithermal precious metal within fault breccias zones. Ore is oxidized to iron-oxide, quartz and gold.

REMARKS: Photo 10, old cabins and ore bin; Photo 11, stoping along fault breccia zone.

Sample 402 Taken from dumps of adit and shaft. Kleinhampl and Ziony (N. Nye Co. Mineral Resources) infer. The Duluth Mine is the Old Peterson Claim.

REFERENCES:

EXAMINER: L.J. Garalde

DATE VISITED: 5 Aug 81