1630 0026

(168)

PROPERTY NAME: Thor Mine

OTHER NAMES:

MINERAL COMMODITY(IES): Au, Ag

TYPE OF DEPOSIT: Epithermal vein

ACCESSIBILITY:

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Lincoln Item 31

Mining District: Eagle Valley/Gold Springs

AMS Sheet: Caliente

Quad Sheet: Deer Lodge Canyon 7 1/2'

Sec. 32, T 1N, R 71E

Coordinate (UTM):

North 4198450 m

East 0759250 m

Zone +11

DEVELOPMENT: Two east-trending adits, some fairly recent bulldozing of dump material & outcrop above & below workings. Several open cuts on vein structure above & SE of main cross cut (in area of prospects).

ACTIVITY AT TIME OF EXAMINATION: At time of our exam, a truck supported drill rig was operating near road junction just north of mine.

GEOLOGY: A good description of the Thor vein is given in article by Perry, 1976; The Thor adit is a crosscut which intersect vein 65' from the portal. The main vein strikes N20W - N15E & dips 55E. It is 2-20' in width & consists mainly of calcite & adularia & a small amount of quartz. Gold, associated with limonite, was noted in a sample of quartz-adularia-limonite vein collected from an open cut SE of main crosscut. (Perry,1976).

At main Thor portal, reddish andesite is notably kaolinized & fractured. The andesite contains abundant plagioclase phenocrysts, now altered to clays & sericite, & scattered coarse biotite. Fragments of silicified, Fe-replaced andesite which show fine vitreous quartz veinlets pre-dating brecciation are contained in massive to prismatic, white quartz vein on dump. Veins have open-centers are typically banded, white to clear in appearance, are Fe-stained & show Fe-stained, quartz encrusted vugs. Although the veins contain scarce crystals of fine-grained pyrite, it is less than that observed in similar vein material at the Jennie Mine. Dark streaks & lenses in vein material are probably dispersed sulfides or possibly Ag-bearing minerals. Clots of limonite & Mnoxs are found but not in abundance. Quartz after calcite textures are common. Typical vein width is 1-3" with sub-parallel veins forming widths up to 1-2".

A quartz vein observed cutting the andesites at portal strikes N50E & dips 80NW. It is typical of the secondary veins noted throughout district which are probably unmineralized. It is 3" in width, banded, vuggy & Fe-stained.

REMARKS: Sample 1719.

REFERENCES: Perry, Spring 1976, in Utah Geology, v.3, n. 1, p. 23.

EXAMINER: Bentz/Smith

DATE VISITED: 9/17/83