2310 0007

(175)

PROPERTY NAME: Manhattan Tunnel (Mine)

OTHER NAMES:

MINERAL COMMODITY(IES): Pb, Ag, Au

TYPE OF DEPOSIT: Vein/Gossan

ACCESSIBILITY: See map, road good

OWNERSHIP: Unknown

PRODUCTION: 248 tons ore in 1938

HISTORY: Explored 1860-1980's , only production in 1938, Several stages of activity and exploration up to present.

County: Lincoln Item 58

Mining District: Highland

AMS Sheet: Caliente

Quad Sheet: Highland Peak 7 ½'

Sec. 8 , T 1N , R 66E

Coordinate (UTM):

North 4203900 m

East 0711500 m

Zone +11

DEVELOPMENT: Several caved shafts, adits, surface cuts, trenches, and numerous roads not shown, several stages of drilling and exploration, most of older workings obliterated from more recent exploration.

ACTIVITY AT TIME OF EXAMINATION: None

GEOLOGY: Workings explore quartz vein system in elliptical skarn which has oxidized to a gossan zone. Skarn results of quartz monzonite intrusive body which has been bleached and argillically altered on exposed surfaces. Much of the intrusive was later shattered and recemented with anhedral milky-grey quartz, probably during emplacement of quartz veins. The skarn is hydrothermally altered to a Fe-Mn gossan from poorly formed andradite-pyrite crystals. The gossan body is cut by massive white quartz veins which are prominent on the surface and traceable for hundreds of feet. The veins are generally vertical with a general easterly trend with randomly oriented quartz stringers. Other quartz veins strike N60E and dip steeply southeast. Some veins are up to 5 feet thick and are interspersed with hematite stained jasper. Veins are composed of massive to subhedral quartz crystals. Malachite stained quartz in float. Cockscomb quartz line cavities. The veins carry crystals and massive clots of oxidized pyrite which are slightly magnetitic (intergrown pyrrhotite? magnetite?) and molybdenite/galena. quartz veins are shattered almost to the point of brecciation The skarnzone has an abundance of sericite intergrown with the oxidized andradite giving the appearance of a schist. Locally, faulting occurs parallel to contact between the intrusive and the quartz veins. Limonitic "jasper" was noted in float. The quartz veinlets have an abundance of open spaces suggesting shallow depth during emplacement. Late stage bluish-white silica coats gossan. Few outcrops are exposed with most of the slopes covered with plant growth and soil.

REMARKS: Sample site 1394 4203900N 0711500E
1395 4203900N 0711500E

REFERENCES: USGS PP 171, NBMG Bulletin 73

EXAMINER: Smith/Bentz

DATE VISITED: 9/20/83