

2310 0017

PROPERTY NAME: Mt. Lion Mine

OTHER NAMES: _____

MINERAL COMMODITY(IES): Pb, Zn, Cu, Ag?, Au?

TYPE OF DEPOSIT: Vein (shear?), replacement

ACCESSIBILITY: _____

OWNERSHIP: _____

PRODUCTION: _____

HISTORY: _____

County: Lincoln Item 76

Mining District: Highland

AMS Sheet: Caliente

Quad Sheet: Highland Peak 7 1/2'

Sec. 17, T 1N, R 66E

Coordinate (UTM):

North 4 2 0 1 6 2 5 m

East 0 7 1 0 1 3 0 m

Zone +11

DEVELOPMENT: Three or more shafts (two with headframes) & several small prospect pits. Several old wood buildings at site.

ACTIVITY AT TIME OF EXAMINATION: Recent exploratory drilling nearby to south (see sample location 1445). Minesite recently staked, dump sampled in recent past.

GEOLOGY: Lowermost shaft begins in horizontal ledge of dark grey, granular, slightly mottled limestone. Some shaley horizons occur between the flat-lying limestone ledges. According to USGS PP171, the shafts begin in the overthrust upper Cambrian Mendha Limestone, cross the thrust & intersect the Pioche Shale at 310'.

Geology is not well exposed in area immediately surrounding shafts but line-up of main workings & presence of mineralized quartz & jasper breccias indicate a N75W vein-shear orientation for workings.

Most waste rock on dump consists of grey, dolomitic limestone probably belonging to the Mendha Formation. Highly Fe-stained, brecciated & resiliified quartz vein material found on the dump carries oxidized & unoxidized pyrite, dark "sulfide" lenses, pods of crystalline galena & minor Cuoxs. The quartz is massive white to "sulfide" grey & ranges in texture from "sugary" to coarsely crystalline(massive). Small vugs in the quartz are coated by Fe-Mnox. Fe-Mnox are abundant in the dense jasperoid & quartz vein samples. Gossany zones are present throughout vein material & late silica-Fe veinlets & lenses cut through rock. The breccia is recemented by silica & Feoxs, indicating vein material was emplaced along fissure/shear zone. Some yellow & green oxides (As?, Pb?, Cl?) coat rock. Sample is quite dense.

REMARKS: Nerco geologist indicated that they obtained favorable precious metal results from analyzed rock on dump.

Sample 1446.

REFERENCES: Westgate & Knopf, 1932, USGS PP171.

EXAMINER: Bentz/Smith

DATE VISITED: 8/27/83