

3640 0038

PROPERTY NAME: Gelder Mine

OTHER NAMES:

MINERAL COMMODITY(IES): Au, Ag, Pb

TYPE OF DEPOSIT: Vein/breccia

ACCESSIBILITY: See map, road fair

OWNERSHIP: Unknown

PRODUCTION: Small

HISTORY: Unknown, probably produced in 1920's

County: Lincoln

Mining District: Pioche

AMS Sheet: Caliente

Quad Sheet: Pioche 7½'

Sec. 16, T 1N, R 67E

Coordinate (UTM):

North 4 2 0 2 1 5 0 m

East 0 7 2 1 6 4 0 m

Zone +11

DEVELOPMENT: Series of shafts, partially, caved adits, remains ore chute, surface cuts, prospect pits.

ACTIVITY AT TIME OF EXAMINATION: None

GEOLOGY: Lower workings are in Cambrian Pioche Shale and explore a south-dipping low-angle fault. A N60E, 75°SE shear intersects. Rocks argillically altered and stained with Fe-Mn oxides, abundantly stained with psilomelane, the shear separates Prospect Mountain quartzite on NW from Pioche Shale on SE. The shear zone is hydrothermally altered and gossany. At the main adit above the previous described workings, a limestone beds (Lyndon Limestone(?)) strike N35W, dip est, 30SW', bleached and altered with an exposed bedding plane shear zone which is heavily stained with Fe-Mn oxides. Most of dump at this adit is Pioche Shale while main ore bin is full of quartzite and limestone carrying minor grains galena and pyrite in quartz vein. The adjacent shaft is caved in. At the shaft, a rib of silicified siltstone/limestone is cut with vitreous quartz carry fine grained, oxidized pyrite/chalcopyrite, argenterous(?) galena and possibly sphalerite and is stained with minor malachite, Fe-Mn oxides. Most rocks exhibit slickensides with mineralization carried by fissure filling quartz veins. most of pyrite oxidized with malachite stains probably coming from oxidized chalcopyrite (or possibly tetrahedrite?). Minor yellow oxides were noted on rocks (SbOx?) and sericite was noted throughout area.

REMARKS: Sample Site 1431

REFERENCES: USGS PP 171, USGS PP 469, USGS Map MF-136.

EXAMINER: Smith/Bentz

DATE VISITED: 8/24/83