

✓ 3640 0040
PROPERTY NAME: Independence Mine

OTHER NAMES:

MINERAL COMMODITY(IES): Mn

TYPE OF DEPOSIT: Bedded Replacement

ACCESSIBILITY: See map, chain across road at north end of bend, easy hike in.

OWNERSHIP: Frank Lloyd and brother (County Assessor)

PRODUCTION: Small

HISTORY: Unknown, probably originally worked in 1930's

County: Lincoln

Mining District: Pioche

AMS Sheet: Caliente

Quad Sheet: Pioche 7 1/2'

Sec. 5, T 1S, R 68E

Coordinate (UTM):

North 4 1 9 5 8 5 0 m

East 0 7 2 8 2 0 0 m

Zone +11

DEVELOPMENT: 2 Inclined shafts, trenching along bedding planes exploratory pits in vicinity several buildings, road maintained.

ACTIVITY AT TIME OF EXAMINATION: None, only assessment work kept up, not patented.

GEOLOGY: Mapped as Pioche Shale overlain by the Lyndon Limestone, Cambrian. Host rock at site thinly bedded * shales and mud/siltstones and limestone with bedding **, striking N15W, dipping 55NE (Note: With so much iron equipment lying around, attitudes may be inaccurate). Locally, the shales are metamorphosed to phyllitic schist. The ore occurs as bedded replacement deposit of iron-manganese in tabular bodies. Ore is very fine grained, oxidized with a circular pyrolusite crystals coating surfaces. Abundant iron manganese oxides coat exposed surfaces. The ore deposit and host rocks are highly fractured and minute calcite veinlets cut the ore. The ore is slightly magnetic. The main shaft is inclined along bedding with remains of building. A second shaft follows a N15W schistosity of the shale runs parallel to the bedding plane. To the southwest are smaller, exploratory prospect pits. The second shaft has been trenched up to 200 feet downslope following bedding plane, portions which are caved. Exposed in the trench are parallel shears trending N55E cutting a dark-grey to reddish-brown limestone unit which carries unoxidized, finely disseminated magnetite crystals, with calcite/siderite filling abundant fracture. Sample 796 was taken from the main dump. North across the drainage workings explore a diabase (?) body intruding the bedded carbonates. Outcropping at entrance to an adit is coarse-grained biotite-rich mafic intrusion containing grains of copper(malachite) and appears to be hydrothermally altered. Veinlets resembling asbestos cut the intrusion. Chloritized limestone breccia outcropping near intrusive is cemented with sparry calcite/siderite and heavily Fe-Mn stained. Sample taken of intrusive.

* light grey to light green

** platy to 6" thick,

REMARKS: Sample Site 796, 797

REFERENCES: USGS Map MF-136, NBMG Bulletin 73, USGS PP 171, USGS PP 469

EXAMINER: Smith/Bentz

DATE VISITED: 8/22/83