

3640 0042
PROPERTY NAME: Prince Mine

OTHER NAMES:

MINERAL COMMODITY(IES): Pb-Ag, Mn
TYPE OF DEPOSIT: Bedded Replacement

ACCESSIBILITY: See map, roads good

OWNERSHIP: Formerly (and probably still is) Prince Consolidated Mining Co.

PRODUCTION: In excess of \$9.6 million and 1.2 million tons ore

HISTORY: Located 1860's, with development and major production in 1900-1920's, accessible ore exhausted 1920's, intermittent production up to present.

DEVELOPMENT: 2 glory holes (Southern one called the Virginia Louise), several shafts, mill and smelter, townsite, shafts with several thousand feet underground workings, flotation plant.

ACTIVITY AT TIME OF EXAMINATION: None, people still live at site, buildings currently being used as storage.

GEOLOGY: Workings collared in alluvium, no structure apparent at site, two glory holes growing towards each other (collapsing, eroding). Bedded manganese/sulfide deposits evident from structure exposed in glory holes. Ore body/mineralized zone low angle, SSW dipping replacement. Ore in limestone/shale units (Pioche Shale?). Dump composed of massive to very fine grained crystalline MnO₂, pyrite, galena, sphalerite, arsenopyrite with minor quartz vein material which carries fresh pyrite. Most of ore oxidized. Hematite/limonite oxidized from pyrite along with crystalline to massive calcite fills vugs. Sample taken of pyritized mud/siltstone, and quartzite which is slightly calcareous. Pyrite crystals intergrown with iron-rich sphalerite along with minor argentiferous galena. Ore is slightly gossany. Sphalerite also occurs as veinlets cutting ore. Rocks heavily manganese stained.

Complete report on structure/ore deposit on USBS PP 171.

REMARKS: Sample Site 1432

REFERENCES: USGS PP 171, NBMG Bulletin 73, USGS PP 469

EXAMINER: Smith/Bentz

County: Lincoln (175) Item 42
Mining District: Pioche
AMS Sheet: Caliente
Quad Sheet: Pioche 7½'
Sec. 33, T 1N, R 67E
Coordinate (UTM):
North 4 1 9 7 6 5 0 m
East 0 7 2 2 1 9 0 m
Zone +11

DATE VISITED: 8/25/83