

1080 0006

PROPERTY NAME: Lucky Hobo & Vicinity

OTHER NAMES: \_\_\_\_\_

MINERAL COMMODITY(IES): Pb, Au?, Ag?, As?TYPE OF DEPOSIT: Vein, fault, intrusive contact

ACCESSIBILITY: \_\_\_\_\_

OWNERSHIP: \_\_\_\_\_

PRODUCTION: \_\_\_\_\_

HISTORY: \_\_\_\_\_

County: LincolnMining District: ChiefAMS Sheet: CalienteQuad Sheet: Chief Mtn. 7½'Sec. 7, T 3S, R 67E

Coordinate (UTM):

North 4 1 7 4 7 0 0 mEast 0 7 1 8 4 5 0 mZone +11

DEVELOPMENT: Main workings are on small ridgecrest (Sample location 122 & 123) & in small draw to south (sample location 124). Ridgecrest workings consist of partially caved inclined shaft with connecting stope. Main shaft has remains of headframe and track.

ACTIVITY AT TIME OF EXAMINATION: Small basin area just north of mines was drilled by Texas Gulf International two years ago. This is the main site of most recent exploration work in the district.

GEOLOGY: Near Lucky Hobo - Ridgecrest workings provide an excellent exposure of thrust(?) or high-angle fault contact between upper Cambrian limestone & dolomite (upper plate) & lower Cambrian Prospect Mtn. Quartzite. Shaft & stope are inclined to west along fault contact which strikes N20E & dips 45-50° (or steeper) to NW. Blocky, fractured outcrop of medium to thickly bedded white, coarsely crystalline marble forms the hanging wall at the workings. The fault zone exposure is highly brecciated & consists of pebble to coarse pebble-size fragments (some rounded, possibly a paleoerosion surface?) of quartzite & limestone suspended in a matrix of clay, calcite & abundant Fe & Mn oxides. The fault zone is well marked by abundant Fe & Mn oxides & contains jaspery dark brown gossan & earthy material. Some bright yellow & orange oxides are also present in zone. Altered limestone boulders on the dump are replaced by jasper or otherwise silicified. Some oxidized pyrite occurs in the wallrocks & breccia zone. Sulfide-bearing quartz vein material sampled from dump (sam. 125).

Old core boxes are strewn about at site of old house near road (sample location 123). Most of the core is 1-2" in diameter & consists of marbelized bleached limestone. Some coarse, white needles of cerussite were found on fracture surfaces in some of the marble core. Some of the limestone is epidotized or silicated to a weak, light green skarn. The remaining core consists of dirty (silty) quartzite & a dark green dioritic or gabbroic dike rock which, although it contains no sulfides, is slightly epidotized or chloritized. The drilling obviously intercepted a contact zone at depth between the marble & mafic dike rock. According to Callaghan, 1936, porphyritic diorite dikes occur along a north-east-striking fault zone north-east of the mine. Sample 123 consists of very dense, silica & Fe-rich sulfide ore with Pb? or As? oxides.

~~XXXXXXXX~~ Lucky Hobo Shaft - The Lucky Hobo Mine is caved. Although shown on the map it appears to be caved adit or several caved shafts. A small 12' deep shaft is located near the main workings. Some limestone & hornfelsed rock is found in the area. Jaspery gossan & calcite vein breccia (sample location 124) from the dump was sampled & contains both cerussite & pyrite. Green-yellow oxides (As?, Pb?) coat silicified quartzite on the dump. Prismatic quartz fills vugs in the jasper. Also observed siliceous boxworks & brown-red earthy gossan & vein material.

Samples #122, 123, 124.

REFERENCES: Callaghan, 1936, Geology of the Chief district, University of Nevada Bull., V.30, No. 2.

EXAMINER: Bentz/SmithDATE VISITED: 8/17/83