

WEST COAST MINE - NW of Winnemucca - Roscoe Smith, U.C.

Item 1

### GEOLOGY

Fissure vein in metamorphosed sedimentaries - quartzites and phyllites - Triassic in age? Diorite stock near deposit - dikes occur - premineral - where vein cuts diorite little difference in mineralization noted. S & NS dip 65 degrees E. Two stages of mineralization - earlier white quartz - contains As and Fe sulphides - little Au or Ag. Later dark quartz fills brecciated spaces - contains arsenopyrite (predominant) pyrite, galena and zinc blende as latest mineral. Some specimens show replacement by solution of earlier quartz. Numerous strike slips displace ore a few feet - Slips are discontinuous - apparently caused by settling of numerous fault blocks.

### MOUNT TOBIN QUICKSILVER MINE

Mike Gould, President  
William Jenkins, Sup't.

### GEOLOGY

Located 50 mi. south of Winnemucca - Cinnabar occurs mainly as "paint" thin seams in tuffaceous quartzitic breccia - apparently tuffaceous clays acted as barriers to solution - deposit may have originated in nearby hot springs - lavas show intense leaching due to hydrothermal alteration - characteristic of areas contain mercury deposits in the district E of Lovelock.

NEVADA MASSACHUSETTS CO. Ott F. Heizer, Manager.

### GEOLOGY

Located 9 mi. W of Mill City in Eugene Range. Contact metamorphic type deposit - thin beds limestone (3' to 8') in triassic shales have been replaced by quartz, garnet, epidote, pyrite and scheelite. Beds str. roughly N-S and dip 75 W. Granodiorite intrudes sedimentaries metamorphosing shale to hornfels. In Stank Mine beds terminate to N against grd.

MANGANESE PROPERTY - Located in Pumpernickel Valley, 21 mi. S of Golconda - Pat Divine, owner.

### GEOLOGY

Ore occurs in lens 30' thick several hundred feet in diameter - near top of spur on west side of valley. Deposit contains 30% Mn - lower grade material on outer margins - Considerable siliceous rock associated - jasper and cherts - few veins, quartz. Ore mineral is psilomelane - small amounts of manganite and pyrolucite noted. Deposit lies on schistose igneous rock possibly andesite - May have originated as replacement of sedimentary beds. 200,000 tons 30% ore blocked out, 20,000 tons shipped to date. Mining open cut - hand mucked - crushed to minus 3" - jaw crusher - trucking to Golconda \$1.25 - freight to Provo, Utah, \$3.25 at 30¢ per unit - Columbia Steel pays \$9.00 per ton. At present 5 cars being loaded for U. S. Government at Foulder. SiO<sub>2</sub> content 50-55%.