

Sunday Morning Copper-Gold Mine

1/22/81

location

The Sunday Morning Mine is located in the SE/4 of sec. 29, T. 26 N., R. 85 W., of the Seminoe Mountains. The mine area is reached by driving 26 miles north of Sinclair on the Seminoe State Park road and then by turning left on a dirt road one mile north of ID ridge. The mine area is located approximately 6 miles on dirt road and nearly  $2\frac{1}{4}$  miles to the northeast of Bradley Peak (see Bradley Peak  $7\frac{1}{2}$  minute quadrangle).

geology

The Sunday Morning mine was developed by open cuts along a bifurcated quartz vein in amphibole schist country rock. Some exposures in the open cut show intense mylonitization of the host schist. Bishop (1964) reported samples of free gold on the mine dump, but also noted that the property was developed by two shafts (?). No shafts were observed. The property was developed by an open cut in the side of the hill, although a small adit was found about  $\frac{1}{4}$  mile to the southwest.

The mineralization occurs principally as copper oxides and staining that fill and coat fractures in quartz veins. Cuprite, chrysocolla, chalcopyrite, and minor malachite were all identified from mine dump samples.

The mineralized quartz vein trends southwest-northeast, and was intersected by three small prospects within  $\frac{1}{4}$  of a mile to the southeast. None of these prospects exhibited any mineralization, other than quartz gangue, on their dumps.

No samples were taken for assay, although two samples of mineralized quartz were collected for thin-sections.

reference

Bishop, 1964, Retrogressive metamorphism in the Seminoe Mountains:  
Univ. of Wyoming M.S. thesis.

W. Dan Hausel  
Staff Minerals Geologist