(71)

Item # 27

3260 0027

a. Mountain City (Cope, Van Duzer, Rio Tinto) district, Elko County, Nevada.

b. Geographic coordinates: 41°50' N., 115°59' W.

c. Status of exploitation: Discovered in 1869, with immediate boom. About $1,000,000 worth of silver estimated to have been produced from oxidized ores before 1881, but production decreased afterwards. Silver production in period 1950-1957 was 33,291 oz. 1869-1949: 1,472,589 oz. Ag, 11,077 oz. Au, 94,924 tons Cu, 96 tons Pb.

Cu-2
Pb-0
Zn-0
Ag-1
Au-1

d. References: Emmons, W. H., 1910, U. S. Geol. Survey Bull. 408, p. 80-84; Lincoln, F. C., 1923, Mining districts and mineral resources of Nevada: Reno, Nev. Newsletter Pub. Co., p. 52; Matson, E. J., 1947, U. S. Bur. Mines Rept. Inv. 4120. Granger et al, 1957.

e. Adequacy of our present knowledge: Inadequate.

f. Topographic coverage: Adequate. Owyhee 15-min. quad. 1939, 1:62,500.

g. Major mineralogic and geologic features: Ore deposits--fissure veins in granite and metamorphosed limestone. Granite wall rock sericitized and pyritized near veins, but limestone not appreciably altered. Vein filling is quartz with pyrite, galena, sphalerite, tetrahedrite, arsenopyrite, chalcopyrite, argentite, pyrargyrite, stephanite, and gold. In oxide ores, there are quartz, chalcedony, iron oxides, pyromorphite, lead carbonate, copper carbonate and silicate, hornsilver, silver bromide, native silver, and native gold. Locally the ore reduced to a white sand by fracturing and faulting.

Silver in the United States

(Data sheets for individual mining districts, prepared in conjunction with metallogenic map for 1960 International Geological Congress.)

Authorship:

E. T. McKnight - All districts west of the Mississippi River, except most of those silver-producing districts containing less than 1,000 tons of lead or zinc in the following states: Arizona, New Mexico, Nevada, Oregon and Washington. Also the following silver districts in 4 of the states mentioned: Vulture, and Helvetia, Ariz.; Ash Peak, Miami, Globe, Apache, Black Range, Chloride Flat, Georgetown and Lake Valley, New Mexico: Ashwood and Granite, oregon; Deertrail, Nespelem and Ruby-Conconully, Washington.

White Pine district, Michigan.

A. V. Heyl, Jr. - All districts east of the Mississippi River (except White Pine, Mich.)

Harry Klemic and W. L. Newman - Silver districts not associated with lead or zinc, in Arizona, New Mexico, Nevada, Oregon, and Washington (except as listed above).

Size categories of deposits
(as penciled in left margins)

	0	1	2	3
Cu	Less than 1,000 tons	1,000 to 50,000 tons	50,000 to 1,000,000 tons	More than 1,000,000 tons
Pb	"	"	"	"
Zn	"	"	"	"
Ag	Less than 100,000 oz.	100,000 to 5,000,000 oz.	5,000,000 to 50,000,000 oz.	More than 50,000,000 oz.
Au	Less than 10,000 oz.	10,000 to 100.000 oz.	100,000 to 1,000,000 oz.	More than 1,000,000 oz.

(NOTE: Categories for Au are less certain than for others.)

District No. on metallogenic map penciled at lower right.