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Item #12

a. Aura (Bull Run, Columbia) district, Elko County, Nevada.

b. Geographic coordinates: 41°49' N., 116°05' W.

c. Status of exploitation: Discovered in June 1869. First ore quite rich in silver and gold. Some ore assayed $4,000 or more to the ton. Mining almost ceased after 1879 but revived in 1899. Output since 1910 insignificant. Total production estimated at $6,032,795, and contained 4,293,056 oz. silver and 67,265 oz. of gold.

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

d. References: Emmons, W. H., 1910, A reconnaissance of some mining camps in Elko, Lander, and Eureka counties, Nev.: U. S. Geol. Survey Bull. 408, p. 71-74; Lincoln, F. C., 1923, Nevada Newsletter Pub. Co., Reno, p. 37-38; Nev. Bur. Mines Bull. 54, 1957, p. 27-30.

e. Adequacy of our present knowledge: Inadequate.

f. Topographic coverage: Inadequate, although area has been surveyed.

g. Major mineralogic and geologic features: Sheeted zones of white quartz veinlets in limestone adjacent to the border of a granodiorite stock. Some veins in granodiorite. Gold and silver minerals with pyrite, galena, sphalerite, and arsenic and antimony minerals.

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, Ash Peak, and Helvetia, Ariz.; Miami, Globe, Apache, Black Range, Chloride Flat, Georgetown and Lake Valley, New Mexico: Ashwood and Granite, oregon; Deertrail, Nespelem and Ruby-Conconully, Washington.

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

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.