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Item #21

a. Relief (Antelope Springs) district, Pershing County, Nevada.

b. Geographic coordinates: 40°12' N., 118°10' W.

c. Status of exploitation: Discovered in 1869. High grade silver ore shipped to 1874. Antimony and mercury also produced. Old Relief silver mine production had estimated value of $200,000 to $2.500.000.

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

d. References: Lincoln, F. C., 1923, Mining districts and mineral resources of Nevada: Nev. Newsletter Publ Co., Reno. p. 212-213; Vanderburg, W. O., 1936, ___: U. S. Bur. Mines Inf. Circ. 6902, p. 27-28.

e. Adequacy of our present knowledge: Probably inadequate.

f. Topographic coverage: Adequate, Buffalo Mtn., 1954, 15-min., 1:62,500.

g. Major mineralogic and geologic features: Star Peak formation of Triassic age has an argentiferous quartz vein in limestone that is underlain by rhyolite and overlain by andesite. Vein dips 55 degrees. Silver chloride, silver bromide, native silver, and probably argentite are the ore minerals. Mercury deposits with cinnabar dispersed through masses of shattered limestone conglomerate or breccia occur as residual remnants on crests and ridges of hills of soft shale.

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, Miami, Globe, and Helvetia, Ariz.; 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 district, Michigan, 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 ~~1~~ 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.