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(Luning)

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Item # 29

- a. Santa Fe district, Mineral County, Nevada.
- b. Geographic coordinates: $38^{\circ}32'$ N., $118^{\circ}06'$ W.
- c. Status of exploitation: Discovered in 1879, silver properties exploited up to 1893. Copper deposits developed about 1906. Early silver production not known. Production 1906 to 1921 was 233,058 oz. Ag., \$123,146 Au., 126 tons Pb., 4,425 tons Cu. 1906-1935, 6,522 oz. Au; 244,022 oz. Ag; 8,907,759 lbs. Cu; 268,165 lbs. Pb.
- d. References: Lincoln, F. C., 1923, Mining districts and mineral resources of Nevada: Nev. Newsletter Pub. Co., Reno, p. 153-154. Vanderburg, W. O., 1937, ____: U. S. Bur. Mines Inf. Circ. 6941.
- e. Adequacy of our present knowledge: Probably adequate: U. S. Geol. Survey Bull. 594 (Hill, J. M., 1915). Univ. Calif. Bull. Dept. Geol. Sci., v. 14, no. 1, 1922.
- f. Topographic coverage: Inadequate, Hawthorne 1909, one degree, 1:250,000.
- g. Major mineralogic and geologic features: Triassic(?) limestones intruded by Cretaceous(?) granitoid rocks ranging from quartz-monzonite to quartz-diorite. These are overlain by Tertiary volcanics and by sandstones and conglomerates. Contact metamorphic deposits of copper and lead, and replacement deposits of copper and lead occur, veins are less common in the district, but there are veins of lead, silver, and gold in altered quartz-monzonite, and fissure veins in granite and quartzite. Stibnite and antimony oxide occur in stringers.

Cu-1

Pb-0

Zn-0

Ag-1

Au-1

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, Nespalem and Ruby-Concomully, 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.*