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Item #53

a. Eureka district, Eureka County, Nevada.

b. Geographic coordinates: 39°30'N, 116°0'W.

c. Status of exploitation: An important producing district, at least through 1957, though output in recent years has fluctuated widely, with no production as recently as 1952-53. District was one of major producers of lead, silver and gold in the west from 1869-90; since this time there has been production every year until 1952, but the output has fluctuated widely; zinc produced only since 1942. There are important deep reserves of sulfide lead, zinc and silver, carrying gold, but the water problem is unsurmountable.

Cu-1
Pb-2
Zn-2
Ag-3
Au-3

d. References: Sharp, Wm., 1948, The story of Eureka: Am. Inst. Min. and Met. Engrs. Trans. vol 178, pp. 206-217.

e. Adequacy of our present knowledge: Adequate. T. B. Nolan has published a map and has a report in progress.

f. Topographic coverage: 1:24,000, 1931; 1:62,500, 1953, 1956.

g. Major mineralogic and geologic features: Replacement veins, chimneys, irregular masses and bedded deposits, in Cambrian limestone along fissures (above a thrust fault in richest area). Small quartz monzonite stock and quartz porphyry dikes, Upper Cretaceous; intrusive and extrusive andesite, middle Eocene; rhyolite plugs and flows, middle Oligocene. Argentiferous and auriferous galena, pyrite, jack, arsenopyrite; but most production from oxidized ores (i. e., plumbojarosite); wulfenite present.

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.

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 1,000,000 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.