

4990 0025

258
Item #25

- a. Union (Grantsville, Berlin) district, Nye County, Nevada.
- b. Geographic coordinates: $38^{\circ}53'N$, $117^{\circ}35'W$.
- c. Status of exploitation: Only piddling intermittent production since 1947, some as late as 1956. There was modest production of silver and lead from 1935-47, but particularly 1941-47. Earlier production was intermittent, but main production was early, 1866-91, and included silver, lead and gold.
- d. References: Kral, Victor E., 1951, Mineral resources of Nye County, Nevada: Univ. of Nev. Bull. Geol. and Mining ser. no. 50, pp. 195-206. Ferguson, Henry G., and Muller, Siemon W., 1949, Structural geology of the Hawthorne and Tonopah quadrangles, Nevada: U. S. Geol. Survey Prof. Paper 216, pls 1, 12 and 13.
- e. Adequacy of our present knowledge: Inadequate. Though district is in an area mapped by Ferguson and Muller, relation of ore deposits to rest of geology has not been defined. District, though not very productive of base metals to date, is possibly worthy of project. It is in the Jono quadrangle, geology of which is being mapped by Charles Vitaliano.
- f. Topographic coverage: 1:62,500, 1948; 1:24,000, 1930 (Ferguson and Muller map).
- g. Major mineralogic and geologic features: (1) Quartz veins in Permian (?) meta-andesite, Triassic slate, conglomerate and limestone, and Tertiary andesite; (2) irregular replacement deposits in Triassic limestone (chief base metal occurrence). Small aplite stock, thick diorite dike, of Jurassic age; Tertiary andesite flows. Galena, pyrite, jack, locally tetrahedrite; quartz, locally scheelite, locally cinnabar. Oxidized ores in early days.

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

90

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, Nappalem 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 1,000,000 oz. 50
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.*