(218)
Item # 34

0820 0034

a. Bullfrog district, Nye County, Nevada.

b. Geographic coordinates: 36°53' N., 116°53' W.

c. Status of exploitation: Discovered in 1904. Production 1905-1921 was 868,749 oz. silver, 111,805 oz. gold, 6 tons lead, about 3 tons copper.

Cu-0
Pb-0
Zn-0
Ag-1
Au-2

d. References: Lincoln, F. C., 1923, Mining districts and mineral resources of Nevada: Reno, Nev, Newsletter Publishing Co., p. 162-163; Kral, 1951, ___: Nev. Univ. Bull. 50.

e. Adequacy of present knowledge:

f. Topographic coverage: Adequate, Frenchman Lake, 1952, 15-min., 1:62,500.

g. Major mineralogic and geologic features: Tertiary volcanic rocks about 6,000 ft. thick, mostly rhyolite, with some interrelated basalt, quartz latite, and stratified tuff. The whole is capped by a flow of quartz-bearing basalt. Fault blocks tipped eastward. The ore deposits are mostly nearly vertical mineralized fault zones with veinlets parallel to the sides linked by irregular cross stringers. Primary ore is auriferous pyrite in a gangue of quartz and calcite. Limonite, cerargyrite, and native gold occur in oxide ore. Chalcocite, galena, and alunite also occur in the deposits.

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 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.