## 3640 0053

Cu-1

Ag-2

Au-Z

- a. Pioche district, Lincoln County, Nevada.
- b. Geographic coordinates: 37°56'W, 114°29'W.
  - Status of emploitation: Chief producing mine, the Combined Metals mine, closed by economic conditions in 1957 after a long run (since 1924) as a major producer of zinc, lead and silver. Silver production from oxidized ores in the district began in 1869, reached a high peak in 1872, and had nearly ceased by 1885. A second period of production, involving also lead and zinc with a little copper, began in 1906, was sharply anguanted in 1912, and culminated in the long run of Combined Metals mine production. This second period of production has been sensitive to economic conditions, so that the annual output has shown wide fluctuations, with some years of no production. Reserves of district are reported (confidentially) to be very low, perhaps exhausted.
- d. References: Westgete, Lewis G., and Knopf, Adolph, 1932, Geology and ore deposits of the Pioche district, Nevada: U. S. Geol. Survey Prof. Paper 171.
- e. Adequacy of our present knowledge: Adequate. A new report is in preparation by Furk, Nextian, and Eschanz.
- f. Ropegraphic coverage: 1:24,000, 1953.
- E. Major mineralogic and geologic features: (1) Replacement veins and budded replacement deposits in Cambrian limestone (with interbedded shall) thought intersection with steep fissures; (2) veins (exidized) in Cambrian quantisity; (3) replacement lenses (exidized) in highly silicified (numits perplayery dike (least productive). Quartz menzemite intrusive and addied types several miles away, sparse granite perplayry

dikes in district, Tertiary(?). Argentiferous galena, jack, pyrite, chalcopyrite; manganiferous siderite, minor quartz. Oxidized ores prominent in early days, included cerussite, cerargyrite, iron and manganese oxides.

## 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 Ash Peak, of the states mentioned: Vulture and Helvetia, Ariz.; Miomi, Globe, Apache, Black Range, Chloride Flat, Georgetown and Lake Valley, New Mexico: Ashwood and Granite, oregon; Deertrail, Nespelem and Ruby-Conconully, Washington.

White Vine districts east of the Mississippi River (Mich.)

Harry Klemic and W. L. Newman - Eilver districts not associated with lead or zinc, in Arizona, New Mexico, Nevaña, Oregon, and Washington (except as listed above).

Size categories of deposits (as penciled in left margins)

| 4  |                         | ng a sanga da sanga s | 1 | 2                        | 3                         |     |
|----|-------------------------|---|---|--------------------------|---------------------------|-----|
| Cu | Less than               | 1,000 to<br>50,000 tons   |   | 50,000 to<br>00,000 tons | More than<br>1,000,000 to | ons |
| Pb | n                       | н   |   | 11                       | 81                        |     |
| Zn | n                       | H   |   | u                        |                           |     |
| Λg | Less than 100,000 oz.   | 100,000 to 5,000,000 oz.  | 1 | 5,000,000 to             | More than<br>1,000,000 o  | Z e |
| Au | Less than<br>10,000 oz. | 10,000 to   |   | 100,000 to               | More than<br>1,000,000 o  | z.  |
|    |                         |   |   |                          |                           |     |

(NOTE: Categories for Au are less certain than for others.)

District No. on metallogenic map penciled at lower right