taken from NBMG OFR 81-4 (1981) See also 81-3 for geochemical results.

(68)

Item 2

Loray

2910 0002

The Loray district covers the northern part of the Toana Range in the general area between Castle Park well in Pilot Creek Valley and Loray, a siding on the Southern Pacific Railroad. Hill (1916) reported that copper-lead occurrences were known in the district as early as 1913, and production was recorded for the periods 1917-21, 1934-46, and 1954-58. Volcanic ash (pumicite) was mined from deposits near Cobre during the 1940's.

The northern Toano Range is composed of Paleozoic limestone, dolomite, and quartzite which dips to the west and is complexly faulted. On the east side of the range, south of the Castle Park mine, the sediments have been intruded by a granodiorite intrusive. Granodiorite underlies the basin south of the Castle Park Mine, and porphyry dikes associated with mineralization at several small prospects nearby may be related to the granodiorite. Contact effects of the intrusion are not pronounced and marbelization extends into the limestone only a short distance away from the contact areas.

Prospects in the eastern area are marked by gossan zones along shears in limestone and quartzite. Samples showed copper to be present in anomalous amounts associated with lead, zinc, arsenic, and minor silver. High tungsten was noted in one sample, and anomalous gold was found in four samples.

In the western part of the district, on the west slope of the range, silver mineralization occurs in quartz veins which cut the limestone section. The veins trend north-south and northeast. At the Betty Lou and Golden Ray areas, the vein systems are wide and can be traced for several hundred feet along strike.

At the time of this examination, no exploration activity was noted on the east side of the range, but the western area had recently been covered by an I.P. (induced polarization) survey.

Selected References:

Hill, J. M. (1916) Notes on Some Mining Districts in Eastern Nevada, U.S. Geol. Survey Bull. 648.

Granger, A. E., et al. (1957) Geology and Mineral Resources of Elko County, Nevada, NBMG Bull. 54.

Smith, R. M. (1976) Mineral Resources of Elko County, Nevada. U.S. Geol. Survey Open-file Rpt. 76-56.