

0250 0001

W.O. Vandenberg

1938

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Item 1

I.C. 7022

ANTELOPE DISTRICT

The Antelope district is at the north end of the Roberts Range, about 12 miles west of Alpha Station on the Eureka-Nevada Railroad. The town of Eureka is 55 miles south. A number of locations were made in this area from 1900 on, but no important discoveries were made. A 10-stamp mill with 5 vanners was erected in the early days; it operated only a short time. About 400 tons of shipping ore has been produced.

Antimony was discovered in the district by José Villanueva in June 1936, but there has been no production of this metal.

There has been very little activity in this area in recent years.

July Group

The July group of two unpatented claims, owned by Fred Bartine, of Eureka, is on the west fork of Kelly Creek, 4 miles south of Willow Creek ranch and 16 miles westerly from Alpha Station. This property was first located in 1902 by Peter Carletti, former owner of the Willow Creek ranch. Production has been about 350 tons of shipping ore, most of which was produced about 25 years ago. In 1937, Bartine shipped 47 tons of ore from the dumps of the property. Development consists of four short adits and scattered surface workings totaling not more than 300 feet. The main adit is 70 feet long and filled with water. There is no equipment on the property.

Ore occurs in bunches along the bedding planes of limestone adjacent basalt dikes. The limestone strikes nearly north and south and dips about 30° to the east. The ore is sulphide in character, containing sphalerite and argentiferous galena. The gangue is silicified limestone, which contains a considerable amount of barite. The smelter returns on the shipment of ore, made in August 1937 by Fred Bartine to the U. S. Smelting, Refining, & Mining Co., furnished the following data:

Metal quotations:	Lead	6.5 cents per pound.
	Zinc	7.125 cents per pound.
Settlement assay:	<u>Ounce per ton</u>	
	Silver	0.8
	<u>Percent</u>	
	Lead	9.6
	Insoluble	16.4
	Iron	0.3
	Zinc	39.8
	Sulphur	21.5
	Lime	3.0

	<u>Pounds</u>	
Wet weight	95,200	
Moisture, 1 percent,	952	
Dry weight	94,248	or 47.124 tons.

Metal payment:	Lead	\$6.48	
	Zinc	18.67	

	Gross value	25.15	
	Treatment charge	2.88	

	Net value	22.27	47.124 tons at \$22.27 \$1,049.45
Deductions:	Freight, \$6.20 per ton		295.12

		Net proceeds	754.33

Belmont Group

The Belmont group of claims, owned by Mrs. M. Wilson of Tonopah, Nev., is in Dry Creek Canyon 6 miles southeast of Willow Creek ranch and 11 miles westerly from Alpha Station. The property was originally located in 1912 by Dan G. Kelly of Eureka, who sold it to Byron Wilson of Tonopah, Nev., and associates. In 1931 it was under bond and lease to the F. W. Bradley interests of San Francisco, who did a small amount of prospecting and then relinquished the option. A small amount of ore was shipped from the property in 1923. Development consists of a shaft 50 feet deep and other shallow workings totaling little more than 100 feet.

Ore occurs in bunches along bedding planes of limestone in proximity to basalt dikes. The principal ore minerals are sphalerite and argentiferous galena in a gangue composed largely of barite and siliceous limestone.

Blue Eagle Group

The Blue Eagle group of four antimony claims owned by José Villanueva of Eureka is at the upper end of Meadow Canyon on the west slope of the Roberts Range, about 6 miles east of the Three-Bar Ranch. Property is accessible by automobile from Eureka, which is 42 miles southeast via Roberts Creek Ranch. The last 2 miles to the property must be traversed on foot, although a road up Meadow Canyon could be built with little difficulty. Alpha Station, on the Eureka-Nevada Railroad, is 20 miles northeast and the nearest shipping point. The only work done on the claims consists of an open cut 12 feet long, 6 feet wide, and several feet deep, and a shaft 7 feet deep.

The antimony occurs in at least two parallel veins in quartzite. From surface indications, the veins range from 2 to 6 feet in width and the predominant antimony mineral is stibnite with a minor amount of antimony oxide. The veins are traceable on the surface for a length of several hundred feet. According to Villanueva, two large samples yielded 38 and 42 percent metallic antimony. No copper, lead, or zinc were present in the samples. Several masses up to 50 pounds in weight, composed of nearly pure stibnite, were observed on the dump near the shaft.