

The Willard or Loring district is at the west end of Coal Canyon in the Humboldt Range 3 miles east of Kodak and 9 miles northeast of Lovelock. The district was discovered in 1915 by G. H. Downing, and a small boom ensued. The Sheepherder mine has been the principal property. Shortly after its discovery lessees built a 30-ton Gibson mill at Kodak to treat the ore, but the mill ran only a short time. In 1915 the Honey Bee and Sheepherder properties shipped ore to smelters. The value of production from the district, chiefly in gold, has been only a few thousand dollars.

In 1920 eight claims owned by William Opperman and John Fant of Lovelock were optioned to New York interests which organized the Honey Bee Mining Co. Some development work was done, but no ore was produced, and after a short time the property reverted to the original owner. Development work on these claims consists of a 700-foot tunnel, a 200-foot shaft, and scattered workings, or a total of about 1,300 feet. From 1916 to 1918 five carloads of ore averaging \$23 per ton are reported to have been produced.

The formation in the district is mainly shale and limestone intruded by rhyolite dikes. The sediments are considerably folded, fractured, and faulted. The ore occurs in irregular quartz veins heavily stained with iron oxide and is free milling. Some silver also is present.

In March 1936 the only property active was the Red Rock group of five unpatented claims owned by C. Lee and H. Burbridge of Lovelock. In 1935 a small lot of ore was shipped from a vein exposed at the surface for about 100 feet. Smelter returns on this shipment, made January 28, 1935, to the U. S. Smelting, Refining & Mining Co., furnished the following information:

#### Metal quotation:

Ag - per ounce .....	\$0.64125
Au - do. ....	34.9125

#### Settlement assay:

Au - per ton .....	.575
Ag - oz. ....	3.4
Insoluble - percent .....	91.4
Fe - percent .....	1.8
S - do. ....	.3

#### Metal value:

Au, 100 percent at 31.8183 .....	\$18.30
Ag, 100 percent at 0.64125 .....	2.18
Total metal value .....	\$20.48
Less 0.5 oz. silver value .....	.32
Gross value .....	20.16
Less working charge .....	4.90
Net value per ton .....	15.26

Total wet weight .....- lb.....	24,160
Sacks (228) lb.....	250
Net wet weight - lb.....	23,910
Less 2 percent moisture - lb.....	478
Dry weight - lb.....	23,432
tons.....	11.716
11.716 tons at \$15.26 per ton .....	178.79

Freight advanced, \$5.98 per ton ....	72.24
Ore sacks (100) .....	12.00
Freight and sacks returned .....	1.19
	85.43
Net payment .....	93.36

On the south side of Coal Canyon there is a deposit of bentonite-type clay. Three 20-acre placer claims covering the main part of the deposit are held by Stefan Herzog of Lovelock. The bentonite outcrops on the north side of a small ravine for several hundred yards. The deposit has been prospected by four open-cuts driven into the side of the hill, which exposed depths of 8 to 20 feet of clay. The bentonite is considerably fractured and is stained yellow in places. Occasional seams of gypsum  $\frac{3}{4}$  inch thick traverse the deposit. The nearest railroad siding is at Kodak 4 miles west.