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Mining equipment includes a Chicago Pneumatic two-drill compressor and a Fairbanks-Morse gear hoist, both powered by gasoline engines. Hoisting is done with bucket and crosshead.

In 1936 that portion of the mine above the 600-foot level was under lease to Lloyd Wilson, of Hawthorne, and associates. The lessees had produced about \$18,000 of shipping ore in about one year. The royalty payments based on the gross value of the ore are 20 percent on ore having a value of less than \$100 per ton and 25 percent over \$100 per ton. The haul to Mina, a distance of 23 miles, costs \$2.75 per ton on contract.

Veins range in width from 3 inches to 3 feet and contain silver, gold, and lead.

## HAWTHORNE DISTRICT

The Hawthorne district includes a large area tributary to the town of Hawthorne, which is at the south end of Walker Lane 7 miles southwest of Thorne, a station on the Mina-Hamen branch of the Southern Pacific R.R. It is sometimes divided into the Lucky Boy section and the Pamlico section, 6 and 10 miles, respectively, southeast of Hawthorne.

The Pamlico and La Panta mines in the Pamlico Range were the most important early-day producers. Other early-day mines of less importance in the Pamlico section were the Good Hope, War Eagle, New York Central, and Gold Bug. In later years, the Lucky Boy has been the principal property in the Hawthorne area. In recent years there has been little mining activity.

Production of the Hawthorne District from 1910 to 1934 is shown in table 4.

Lucky Boy Consolidated Mines Co:

The Lucky Boy Consolidated Mines Co., J. H. Miller, of Hawthorne, president and principal owner, owns 14 patented claims on the east slope of the Wassuk Range. The Lucky Boy mine was discovered in 1906 by Guy E. Pritchard while working on the road over the Lucky Boy Pass.

In 1936 the property was under option to eastern interests, and several men were employed in cleaning out the Miller tunnel. This work was done primarily to hold the option.

The Lucky Boy mine is developed by the Hubbard two-compartment shaft 950 feet deep, inclined 70°, the Miller tunnel 6,400 feet long, and approximately 2 miles of subsidiary workings.

Mining equipment includes a Sullivan compressor, 50-horsepower electric hoist, electric haulage locomotive, and other mining machinery.

A 125-ton flotation mill was erected in 1926 near the portal of the Miller tunnel. Milling equipment includes a 10- by 12-inch Blake crusher, 2 1/2- by 8-foot Hardinge ball mill, Dorr Duplex classifier, three K & K flotation units, a Deister table, and an Oliver filter.

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I. C. 6941 TABIE 4. - Gold, silver, copper, and lead production from Eawthorne District, Mineral County, Nev., 1904-35,

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Nev , and lead production from Hawthorne District, Mineral County, TABLE 4. - Cold, silver, copper,

Eureau of Mines ι, Mineral Production and Economics Division, (Continued in terms of recovered metals White Merrill, Charles (Compiled by

Total value, loce and placer liberty to publish \$2,976 value of ore recoverable per ton 1/ Average \$1.57 Bureau not at 51.16 \$2,976 value Total with average assay value of ore. 1,320 1,320 1,320 . Value cut disclosed figures included in totals. Lode (Continued) Lead 6,169 14,298 70,000 28,828 18,592 2,631 671,860 126,787 185,284 6,557 2,530 2,530 1,241 21,955 18,978 18,906 12,086 Pounds Value 8,63 5,93 Copper Not to ce confused Pounds 42,966 1,709 52,317 38,131 38. 263. 1,664 7,958 1,212 802 5,838 (2) figures

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Electric power is available at the property.

Water for milling is available from Summit Springs and from the mine. Water from the springs is brought to the millsite by gravity pipeline 4 miles long and 3 to 4 inches in diameter.

According to Hill, 10/ the formations at the Lucky Boy nine are granodiorite intrusive into limestone. The ore deposit is a complex contact vein. The ore occurs as lenses and shoots with a steep west pitch. The main vein occurs in an irregular fracture. The fracture took place after the intrusion and cute the limestone, granodiorite, and contact, although in general it follows the contact rather closely. The width of the vein varies from 1 to 8 feet and has a dip of from 70° to 80°. The ore minerals are argentiferous tetrahedrite, galena, argentite, hown silver, and a little sphalerite and gold.

## La Panta Mine

The La Panta property comprises four claims controlled by E. H. Daugherty of Carson City, Nev. It is 12 miles southeast of Hawthorne, and is reported to have produced about \$300,000, principally in gold. In 1936 the property was idle.

Development work includes a number of shafts, the deepest of which is 300 feet. Total workings comprise about 5,000 feet. Some of the mine dumps have been screened and shipped in former years. All equipment has been removed from the property.

The ore deposits are irregular replacement bodies in limestone near a basic dike, probably basalt. The values are mainly free gold in a gangue composed principally of iron oxides. Several samples panned by the writer carried values estimated at \$6 to \$10 per ton.

## Pamlico Mine

The Famlico mine 10 miles southeast of Hawthorne, comprises eight claims controlled by E. H. Daugherty of Carson City, Nev.

In the seventies and eighties this mine is reported to have produced several hundred thousand dollars. In later years the mine has been worked intermittently by various lessees. In 1936 the property was idle.

The Pamlico vein is developed by shafts, drifts, raises, and crosscuts Argregating several miles in length.

Equipment includes the remains of a 20-stamp mill. All the mill equipment has been removed, with the exception of the stamps (1,050 pounds each) and a Gates No. 3 gyratory crusher.

In former years water for milling was piped from Cottonwood Creek, which heads near Buller Mountain in the Wassuk Range, 10 miles southwest of the mine.

<sup>10/</sup> Hill, J. M., Some Mining Districts in Northeastern California and Northwestern Nevada: U. S. Geol. Survey Bull. 594, 1915, pp. 153-154.