

I. C. 6941

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.

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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-Hazen 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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TABLE 4. - Gold, silver, copper, and lead production from Hawthorne District, Mineral County, Nev., 1904-35, in terms of recovered metals

(Compiled by Charles White Merrill, Mineral Production and Economics Division, U. S. Bureau of Mines)

(Oompile)	Placer						Lode						
	No.			Silver			No.	Ore,	Gold		Silver		
	of	Fine		Fine		Total	of	short					
Year	mines	OZ.	Value	oz.	Value	value	mines	tons	Fine oz.	Value	Fine oz.	Value	
1904							1	1,900	142.99	\$2,956	35	\$20	
1905									-	:			
1906									_				
1907	,						2	35	25.54	528	9	6	
1908	1	47.99	\$992	7	\$4	\$996	1	64	45.96	950	8	4	
1909					_		4	1,815	481.62	9,956	408	212	
1910							15	4,090	864.05	17,861	421,384	227,547	
1911							9	1,323	152.68	3,156	100,859	53,455	
1912			-		-		15	1,358	177.86	3,677	120,854	74,325	
1913			-				9	452	115.87	2,395	1,132	684	
1914							8	305	219.95	4,547	1,098	607	
1915	2`	70.13	1,450	15	8	1,458	9	405	238.83	4,937	13,211	6,698	
1916	2	23.31	485	4		485	8	377	27.09	560	56,439	37,137	
1917	2	3.50	72	2	1	73	15	535	66.54	1,376	17,445	14,375	
1918					-		8	105	41.28	853	10,019	10,019	
1919			-				8	59	11.50	238	3,211	3,596	
1920							2	256	n 43.00	889	15	16	
1921							2	22	23.29	481	9	9	
1922			-				6	102	31.14	644	11,110	11,110	
1923			-				8	99	250.63	5,181	2,237	1,834	
1924							4	46	151.82	3,138	200	134	
1925 1 9 26							3	31	68.89	1,424	3,311	2,298	
1927		-						18,549	27.10	560	103,473	64,567	
1928		-					3	219	17.30	358	17,424	9,879	
1929								210	9.32	192	11,854	6,935	
1930						-	5	104	36.48	754	471	251	
1931	(2)	(2)	(2)	(2)	(2)	(0)	(2)	(2)	(2)	(2)	(2)	(2)	
1932	(2)					(2)	(2)	(2)	(2)	(2)	(2)	(2)	
1933					•		3	52 84	84.40	1,745	1,538	434	
1934	(2)	(2)	(2)	(2)	(2)	(2)	5	319	176.98	4,524	148	52	
1935	(2)	(2)	(2)	(2)	(2)	(2)	9	432	460.70	16,101 24,417	256	165	
Total2/		154.52		: 30		\$3,348	7	33,412	4,700.43	\$114,605	11,507	8,271	
					φ±/	77,740	2 2		4,700.43	\$114,605	909,710	\$534,646	

2/ Bureau not at liberty to publish figures but disclosed figures included in totals. Continued ——
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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 mine 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 700 to 800. 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 Pamlico 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 aggregating 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.

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^{10/} Hill, J. M., Some Mining Districts in Northeastern California and Northwestern Nevada: U. S. Geol. Survey Bull. 594, 1915, pp. 153-154. -38-

TABLE 4. - Gold, silver, copper, and lead production from Hawthorne District, Mineral County, Nev., 1904-35, in terms of recovered metals (Continued)

(Compiled by Charles White Merrill, Mineral Production and Economics Division, U. S. Bureau of Mines)

Lode (Continued)											
	Сор	oper	L	ead	Total	Average recoverable value of ore	Total value, lode and placer				
Year	Pounds	Value	Pounds	. Value	value	per ton 1/					
1904		7-			\$2,976	\$1.57	\$2,976				
1905			_								
1907	-	-			534	15.26	534				
1908	-				954	14.91	1,950 10,168				
1910	42,966	\$5,457	671,860	\$29,562 5,704	10,168	5.60 68.56	280,427				
1911 1912	1,709 52,317	8,632	126,787	5,704 8,338	62,529	47.26 69.94	62,529				
1913	38,131	5,910			8,989	19.89	8,989				
1914 1915	7 501	279	6,169	241 672	5,396 12,586	17.69 31.08	5,396				
1916	1,594	4,560	70,000	4,830	47,087	124.89	47,572				
1917	35.558	9,707	28,828	2,479	27,937	52.22	28,010				
1918 1919	474 3,133	117 583	18,592 2,631	1,320	12,309 4,556	117.23 77.22	12,309 4,556				
1920					905	3.54	905				
1921 1922	38.	5	17,681	972	490 12,731	22.27 124.81	490 12 , 731				
1923	263	39	6,557	459	7,513	75.89	7,513				
1924	1,604	210	3,330	266	3-748	81 .48	3,748				
1925 1926	7,958	1,114	5,750 142,195	500 11,375	4,222 77,616	136.19	4,222 77,616				
1927	1,212	159	21,978	1,385	11,781	53.79	11,781				
1928	802 5,888	1,036	18,106	1,050	8,292	39.49 19.62	8,292 2,041				
1929 1930	(2)	(2)	(2)	(2)	(2)	(2)	. (2)				
1931	(2)	(2)	12,086		(2) 2,561	(2) 49.25	(2)				
1933	119		12,000	375	4,576	54.48	2,561 4,576				
1934	310	25	750	28	16,319	51.16	16,319				
1935 Total2/	1,386	115	8,088	32 4 \$70,098	\$757,634	76.68	33.127 \$760.982				
TOGAL	217,007	(0,40)	上りしてりりし	Ψ10,000	4171,07	122.00	1410000				

1/ Not to be confused with average assay value of ore. 2/ Bureau not at liberty to publish figures but disclosed figures included in totals.

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The tailings pile below the mill is roughly estimated to contain 1,500 tons. These tailings have been sampled but their average value could not be learned.

The Pamlico vein is said to be in rhyolite. The ore consists of ironstained quartz that carries free gold as nuggets and wires and some argentiferous galena.

Placer Gold

Placer gold has been found in the Canyon below the Pamlico mine. About \$8,000 in placer gold is said to have been mined here about 1912. The gravels are deep; one shaft was sunk 170 feet before bedrock was encountered.

Barite

Barite occurs in a range of low hills 13 miles east of Hawthorne. Considerable barite was shipped from this locality from 1916 to 1919 to consumers on the Pacific coast. Most of the production was made from the Crystal claim, patented in 1926, by the D. V. O. Products, Inc. The nearest shipping point is Kinkaid Siding, 1.3 miles from the property.

Development work on the Crystal claims includes three shallow shafts and several hundred feet of lateral workings. In 1936, the property was idle and all mining equipment except a small geared gasoline hoist and 1-ton skip had been removed.

The barite is in a nearly vertical vein. On the surface the vein is exposed by trenches and open-cuts for a length of about 800 feet. The width of the barite varies from 1/2 to 8 feet. At the northerly end of the vein the barite is associated with copper minerals.

KING DISTRICT

The King mining district is in northeast Mineral County 14 miles east of Rawhide and west of Mount Anna, a prominent landmark. It is accessible by automobile either from Fallon 50 miles to the northwest or from Hawthorne via Ryan Canyon about the same distance to the south. This district was prospected to some extent many years ago and abandoned until 1926, when a small stringer of rich gold ore was found at a depth of about 10 feet in an old shaft. This strike attracted attention, and in 1926 and 1927 up to 100 men prospected in the area. The only production was one carload of shipping ore reported to average about \$40 per ton in gold.

Donnelly Group

The principal property is the Donnelly group of nine claims and two fractions of unpatented ground owned by B. H. Donnelly and R. L. Mundell of Hawthorne, Nev. Total development work on this ground is about 800 feet and consists of a crosscut tunnel 550 feet long, a shaft 100 feet deep, and several shallower shafts and a number of open-cuts along the

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