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LEONARD LEASE Q.S.B.M.

Reconnaissance of mining districts in Mineral 1.,0. 69¹41 County, Nevada 1937

and several thousand feet of workings. Equipment includes an assay office 25-ton mill, blacksmith shop, and camp building. In 1936, a portion of the property was under lease to W. B. Worlock, who had made two small ship

At the Gold Pen mine the vein is said to be 3 to 8 feet wide and separated from the walls by sheets of alunite from 3 inches to 1 foot with Values are gold and silver in a quartz gangue. The enriched zone extends to a depth of 250 feet from the surface.

Lone Star Group

The Lone Star group of eight unpatented claims is owned by E. M. Min. of Sacramento, Calif., and adjoins the Randall property. Development con sists of a shaft 550 feet deep and about 1,000 feet of underground working. Mining is done by hand.

Geological conditions on this property are essentially the same as on the Randall group. Production has been about \$25,000 in gold and silver

RAWHIDE DISTRICT

The Rawhide or Regent district is on an irregular range of hills at the south end of the Sand Springs Range in northeast Mineral County near the border of Churchill County. Fallon in Churchill County is 50 miles northwest, and Schurz, the nearest shipping point, 29 miles east.

Mining locations were first made in the area in 1906. With the finding of some high-grade gold ore and after considerable flamboyant advertising, a rush to the district took place in 1908 that raised the temporary population to 4,000 people. On September 4, 1908, a fire destroyed a large part of the business section of Rawhide, which caused a loss of several hundred thousand dollars. No large mines have ever been developed in this area and the principal production of the camp has been derived from leasing operations. In the early years of the camp as many as 50 sets of lessees or leasing companies were at work at one time. Near ly all the ore was shipped for treatment.

In 1909, two mills of unusual type were erected in the district. One was called a Tadmor and the other a Cannonball mill. The Tadmor mill enployed a heavy muller actuated by an overhead eccentric bearing, which gave a crushing movement similar to that of a gyratory crusher. The muller weighed 8,000 pounds, and crushing was effected by the action of its weight upon a die. This mill is reported to have had a capacity of 20 tons per-24 hours. Concentrating was done with Wilfley tables.

The second mill is reported to have had a capacity of 30 tons per 24 hours, from 1 inch to 80-mesh, crushing either wet or dry. The crushing device consisted of a flat iron pan with three rings at increasing distances from the axis of rotation. Each ring carried a number of chilled iron ball. Reconnaissance of mining districts in

Mineral County, Nevadau, S, B, M, - I. C. 6941 Thin size for each ring but diminishing in size from the inner to

the ring. The balls were held in place under pressure by overhead go designed that the pressure on each ring could be changed inde-

thy of the other two. The ore was fed to the center of the machine discharged at the periphery. Concentrating was done by amalgama-

both these mills operated only a short time and are mentioned here because of their metallurgical interest than because of their economic tance. Several other mills using stamps for crushing were erected in district in the early days. All of the mills have been dismantled.

the largest holdings in the district are owned by the Scheeline estate, controls 17 1/2 patented claims, and the Grutt brothers, who own 19 the levelopment work consists of a number of shafts and tunnels, the deepest

theing 600 feet with a winze from the bottom level 120 feet deep. Judgfrom the mine dumps, total underground workings will comprise at least miles. the formations in the area are rhyolite, dacite, and andesite. curs in a network of veinlets that impregnate the country rock. alization appears to follow incipient fissures, mainly in kaolinized ite. In places the kaolinite material carries good values. The ore als are native gold alloyed with silver, argentite, and cerargyrite.

It the time of the writer's visit in June 1936, several lessees were

moduction of the district from 1908 to 1934 is shown in table 6.

Leonard Lease

the past 18 years W. H. Leonard of Rawhide has shipped 15 to 20 decore annually, which had a value of from \$50 to \$1,200 per ton. In gonard leased on the Truett property, owned by the Scheeline estate.

37	royalty paid by Leonard						0000000
	royalty paid by Leonard on	1 the	net	smelter	returns	is as	follows
	Value of ore			Royalty,			TOTTOWS:
	\$50 or less			7.0	percent	• .	•

\$50 to \$400 10 \$400 or more 15

C.C.C. 353 samples unadjusted 0.039 ozlaw/t token of Lornard Lover adjusted 0.031 3 / mellon

Mining is confined to working a large mass of low-grade ore that averages about \$2.50 per ton in gold. According to Leonard, the gold oc cers in a number of small fissures in dacite. On the surface the fissure area is 225 feet wide and 700 feet long. By screening the run of mine product through 1-inch screen, Leonard can obtain a product that average. about \$100 per ton. Several men are employed, and mining is done by hand Hoisting is done with a 25-horsepower Western gasoline hoist.

The smelter returns on a shipment of ore made by W. H. Leonard to the American Smelting & Refining Co. on October 18, 1935, gave the following returns:

\$34.9125

		Ag	-77	
Sottlement	assay:	Au	2.425	OZ.
	•	Ag Insol.	7 • 7 88	oz. percent

Metal quotation:

Wet weight

Moisture, less 4.2%

Au

\$77.16 Au at \$31.81825 Metal payment: 5.27 Ag 95% less 0.5 oz. at .77

base Treatment charge: 2.25 (max.) 10% excess over \$20.00 Net value per ton

45,040

21.574 tons at \$76.43

6.00 76.43

Dry weight \$214.57 Royalty before hauling, 15% 200.44 Freight at \$9.30 9.01 Emergency freight at \$0.40 per ton Hauling at \$3.50 per ton

Net proceeds

\$1,648.90

Placer gold has been found south and southwest of the town of Rawhide. The lack of water necessitated the use of dry-washing equipment, although hand rockers were employed to some extent in the early days. Water for recovering gold with rockers was hauled from wells several miles southeast of the camp.

The best placer diggings were on the southeast slope of Hooligan Hill. Numerous shafts averaging about 15 feet in depth attest the activity in this area in former days. The gravel is composed of angular rock fragments, same and soil, with few large boulders. The largest nugget found is reported to have had a value of \$70.

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TABLE 6 - Gold, silver, copper, and lead production from Regent (Rawhide) district, Mineral County, Nev., 1908-35

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

	1		TOC MEIT.	III, Miner	al Produ	ction and	Economi	— Cs Divici	on II a n.		
1 1/0 • 1				Placer			Economics Division, U. S. Bureau of Mines)				
	of		Gold 📑	Si	lver	1	No.	Ore,			
Year	mines	Fine oz.	Value	Fine oz.		Total	of	short		Hold	
1908 ·	1	4.40	\$91		varue	value	mines	tons	Fine oz.	Value	
Լ909 Լ910						501	9 10	1,826	6,069.86	\$125,475	
.911	5	579.79	11,985	467	\$252	12,237	22	6,197 12,582	7,546.59	156,002	
.912	2	324.25 81.90	6,699	271	143	6,842	17	6,013	6,538.27 3,364.65	135,158	
.913	ī	8,20	1,693	82 10	50	1,743	19	1,579	1,563.50	69,554 32,320	
.914	5	201.78	4,171	148	6 .82	176	13	9,954	4,845.44	100,164	
.915	3	274.70	5,679	166	8,†	4,253	5,1	18,279	7,523.45	155,524	
916	1	12.62	261	7	.5	5,763 266	5	6,973	3,968.80	82,042	
917 918	2	17.22	356	12	10	366	5	4,371	2,268.56	46,895	
919	5	47 • 55	983	48	48	1,031	g	285	423.19 620.14	8,748	
920		45.34	937	28	31	968	5	199	677.97	12,820	
921	2	6.60	136		•		7.	284	807.65	1 ¹ ,015 16,696	
922		-		5	5	141	11	93	257.10	5,315	
923	1	2.04	42	1	7		11	237	368.02	7,607	
924	1	8.38	173	2	i	43 174	8	399	393.62	8,137	
925 926							9	221	178.09	3,681	
927				:			12	36 120	123.02	2,543	
928						'	5	57	93.92 119.09	1,941	
\$45.359							4	186	272.67	2,462 5,636	
930							3	66	82.09	1,697	
931	2	18.29	378	10	7	707	5	710	52.90	1,094	
332	2	35.30	668	24	. 6	381 674	6	116	103.87	2,147	
933 934	5 2	65.93	1,685	29	10	1,695	8	279	288.01	5,95 ⁴	
335	4	31.77 54.64	1,110	89	57	1,167	8	139	122.94 111.88	3,142	
Totals			1,912 33,129	1,441	30	1,942	8	100	548.56	3,910 8,689	
1.5			<u> </u>		3857	39,953		71,047 1		\$1,019,368	