

September 24, 1938

Mrs. Frances Peirce,  
1240 Coolidge Avenue,  
San Jose, Calif.

Dear Madam:

This Department has been in existence less than fifteen months and has not as yet had time to make the rounds to all of the properties in the state, there being close to one thousand such properties.

We hope to have our mining geologist stationed at Baker visit your property before long. The latest information we have is taken from Information Circular 7015, U. S. Bureau of Mines, Washington, D.C. We do not know what has been done to this property since that time, but we will have, later on, up to date information.

We quote from the above named circular:

"The Twin Baby mine was being operated by the Vindicator Gold Mines Co., P. C. Murphy, manager. The mine is 2.5 miles by good mountain road from Medical Springs, at 4300 feet elevation. The nearest available shipping point for carload lots is at the Pondosa lumber mills, 3.2 miles distant. When the mine was visited concentrates were being trucked 27 miles to Baker.

"Two ore shoots 50 feet apart, each about 70 feet long, had been developed. The ore shoots are quartz veins 1 to 4 feet wide in a strong, well defined fissure in "greenstone". The greenstone apparently is a volcanic extrusive. The fissure is about 4 feet wide; where barren, it is filled with fault breccia and usually contains a strong seam of gouge, which carries low gold values. The fracture strikes north, and dips 80° east. It has been explored for a strike distance of 600 feet.

"The mine was equipped with a 620-cubic-foot air compressor, which supplied air for dilling, hoisting, and pumping; a 40-ton amalgamation flotation mill, shops, cookhouse, and cabins for employees.

"A vertical shaft had been sunk 335 feet on the vein. Drifting was in progress from the 335-foot level and apparently had just picked up the

"downward continuation of the oreshoot. The 230-foot level had been driven north and south a total distance of about 600 feet on the vein; most production was coming from this level.

"An underground crew of four men was producing 12 tons of ore per day (one shift) from a short stope and raise on the 230-foot level. Stopping was by resuing. Drifts and raises were closely but not heavily timbered.

"The mine was making 12 gallons of water per minute.

"Figure 10 is a flow sheet of the Twin Baby mill.

"When visited, the mill was operating on a one-shift basis, milling 12 tons of semioxidized ore per day. Ore was crushed to 80 mesh; about 30 percent of the values were recovered on the amalgam plate. Pulp feed to the plate was distributed by an ordinary box distributor mounted separately from the plates, on flexible supports. A rod from the distributor to an eccentric attached to a jackshaft imparted a longitudinal shaking motion to the distributor. This prevented any banking of pulp in the distributor box and insured an even flow of pulp to the plates.

"Flotation reagents consisted of 0.38 pound of amyl xanthate per ton of ore and a mixture of one part acid creosote, one part pine oil, and one-fourth part aerofloat. This mixture was fed at the rate of 60 drops per minute. Two pounds of soda ash and one-fourth pound lime per ton of ore were added to the ball-mill feed.

"Mill heads averaged about \$10 per ton and a \$250 concentrate was produced. Allowing for recovery by amalgamation, this indicated a ratio of concentration of about 40 to 1.

"Power for mining was supplied by a 120-horsepower Diesel engine. The mill was driven by an old type 75-horsepower semi-Diesel. Both engines were usually operating at full capacity; each was said to consume about 5 gallons of fuel oil per 8-hour shift."

Yours very truly,

A. M. Swartley  
Consulting Mining Engineer

SEP 23 1938.

STATE DEPT OF GEOLOGY  
& MINERAL INDS.

San Jose Calif

Dear Sir I am taking the liberty of writing you for information I have some stock in a gold mine at Baker Ore and in the Spring of '36 I was in Portland and talked with the President of the mine he told me every thing was in readiness to start and orders had been given and since then I havent been able to get any information whatever. I should like to know how to go about it to find out if they are on the square with me. I am not able to go there

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~~myself. well up of me getting~~  
can out I should like my share  
Can you tell me if they are  
working the mine. The name  
of the mine is Vindicator

any information will be gratefully  
received. Thanking you in advance  
I am Respectfully

Mrs Francis Peirce  
1240. Coolidge Ave  
San Jose Calif

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