

QUARTZ PROPERTY

10/11/37

J. E. Morrison

1. Name of property Tibbett Springs  
Operating company (or individual) Izma S. Santee, Formerly Mrs. Gerry Johnson  
Address She died in spring of 1938, Mr. Santee now owns it. (see back)  
Location of property Mount Reuben, S. 1, T. 33 S., R. 8 W., 1/2 mile north  
Acreage of holdings of Mount Reuben Lookout. Edward N. Santee  
4 claims, 83 Acres----names Ruben, Ruben Extension, Superior & Phonolite
2. History of property, past and recent: Claims located by Gerry Johnson, he died, left to Mrs. Johnson, she died and left to her second husband Mr Santee. Cline, Hotchison and Henderson, leased and are operating the property.
3. History of production: Few hundred dollars, but no record.
4. Development: Number of levels, lengths of drifts and cross-cuts, raises, etc.:  
Two shafts--15 feet and 25 feet, about 6 feet apart and a shallow open cut.
5. General description and equipment on hand, topography, country rocks, elevation, timber, water, snow fall, climate, power, etc. No equipment, mountainous topography. Andesite porphyry country rock. Aneroid 4200 feet. Plenty of mining timber, no water except a small amount for domestic use. About five miles to closest water for mill. Snow maximum about 10 feet during winter. No water or electric power available.
6. Geology - General and local. Ore geology - type of deposit, i.e., vein, mineralized zone, bed; contact relations, attitude and orientation, vein minerals, gangue, type of mineralization, alteration, enrichment, etc. Resilicified quartz vein formed in the shear zone in the porphyry Iron gossin outcrop. Vein minerals are: pyrite, limonite, chalcoppyrite, gold and silver. Strike N. 25° W., Dip 70° East. Vein varies greatly in width maximum 3 feet. Two samples submitted by Mr. Cline, one of the leasors, give the following results: Limonite and quartz, weight about 3 pounds, size 1 1/2 inches and smaller, 0.32 ounces of gold and 0.24 ounces of silver. The other sample contained limonite and clay, weighing about 3 pounds, size two inches and smaller gold 0.38 ounce and silver 1.38 ounces.
7. Metallurgy - nature of ore, hard or soft, free-milling, base, direct shipping, etc. Kind of mill and equipment in use or planned, current daily tonnage of ore or concentrates, approximate value, freight rates to smelter, etc.  
The ore is medium hard estimated 50% free milling (too close to the surface to really determine the percentage). At the present time the ore is hauled to a small homemade mill about three miles from the property, which has a capacity of about one ton a day.
8. Remarks - economics: High or low cost, principal drawbacks, reasons for success or failure, apparent life of operation based on apparent quantity of ore available. This property is not developed to a point where any estimate of tonnage can be made, however, the showing from the two shafts is good, and if it will continue to assay as good as the two that were made, it will have possibilities. The principal drawbacks are: It is hard to get to during the winter months; due to steep mountain grades and deep snow and limited amount of water.

TIBBETS SPRINGS GROUP (gold)

*see also Garry Johnson Claims*

Galice area

Owner: Edward N. Santee. The lessees can be reached by writing to Herbert S. Cline, P. O. Box 121, Glendale, Oregon.

Location: sec. 1, T. 33 S., R. 8 W.,  $\frac{1}{2}$  mile north of Mount Reuben Lookout.

Area: 4 mining claims, 80 acres, called Reuben, Reuben Extension, Superior and Phonolite.

History: Cline, Hotchison and Henderson leased and are operating the property. Said to have produced gold valued at a few hundred dollars, but there is no production record.

Development: Two shafts, 15 feet and 24 feet respectively about 6 feet apart, together with a shallow open cut.

General: No equipment; mountainous topography; andesite porphyry country rock; aneroid elevation about 4,200 feet; plenty of mining timber; no water except a small amount for domestic use; about five miles to closest water for mill; snow maximum about 10 feet during winter.

Geology and Metallurgy: Resilicified quartz vein with gossan formed in a shear zone in porphyry. Vein minerals are pyrite, limonite, chalcopyrite, gold and silver. Strike is N. 25° W.; dip is 70° East. Vein varies greatly in width with a maximum of 3 feet. Two samples submitted by Mr. Cline give the following results: one with limonite and quartz, weight about 3 pounds, 0.32 ounces of gold and 0.24 ounces of silver; the other contained limonite and clay, weighing about 3 pounds, gold 0.38 ounce and silver 1.38 ounces.

The ore is medium hard and is estimated to be 50 percent free milling. At the present time the ore is hauled about three miles to a small homemade mill, which has a capacity of about one ton a day.

This property is not developed to a point where any estimate of tonnage can be made; however, the showing in two shafts is good. It is relatively inaccessible during winter months, due to steep mountain grades and deep snow.

Informant: J. E. Morrison, 37.