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REPORT ON THE MINING PROPERTY

OF

MR. I. G. SOUTHEY,

AT

QUARTZ MOUNTAIN, NEVADA

BY

J. A. BURGESS,

CHIEF ENGINEER TONOPAH MINING COMPANY

TONOPAH, NEVADA,

NOV. 5TH, 1910.



Mr. W. H. Blackburn,

Superintendent Tonopah Mining Company,

Tonopah, Nevada,

Dear sir:

Acting under your instructions, I made a preliminary examination on October 30th., 1910, of the mining property belonging to Mr. I. G. Southey. I made the trip from Goldfield by auto.

The property consists of ten mining claims and a fraction, situated at Quartz Mountain, about 25 miles north of Springdale, and 50 miles south east from Goldfield, Nevada

There is no water developed within six miles of the property, and although Mr. Southey thinks it could be found by sinking in the neighboring desert, I think that point is doubtful.

As regards the terms of sale, Mr. Southey said the property is in Mr. Keith's hands but that he would agree to almost any terms that would involve the further exploration of the ground.

The vein on which the locations are based outcrops for a distance of about 2000 feet across a hill that rises about 200 feet above the adjacent desert. The vein is about twenty feet wide and consists of a very hard, white jaspery quartz? It strikes in a general north-south direction and dips to the east at about 45 degrees. The vein is solid at the surface but is shattered into fragments where it is cut by tunnels, and it is not as well defined underground as at the outcrop.

In some places in this vein there are small irregular streaks of hard, greenish quartz that carry high values in gold, and that occasionally show visible gold. There are also large pieces of float in some places near the vein that assay well, but in general the value of the vein where



it is exposed is too low to pay to mine. The assays from this vein are Nos. 1, 3, 4, 6, 8. Assays Nos. 7, 9, 14 are from pieces of float near the vein.

About 1000 feet north of the last exposure of the vein just described, two shafts are sunk on a vein dipping about 45 degrees to the west, which may be the continuation of the big vein. Only one of these shafts could be inspected. This shaft followed a three foot vein of broken quartz to a depth of one hundred feet. At a depth of fifty feet, a cross cut into the footwall showed broken quartz twenty feet wide from which sample No. 10 was taken. A cross cut into the hanging wall at this depth showed 24 feet of broken rhyolite with a little quartz, from which samples Nos. 11, 12 were taken. Sample No. 13 was taken in the 3 foot streak 20 feet below the collar.

Samples Nos. 2 and 5 were taken from location holes in property adjoining Southey's on the east. One of these holes exposed a 4 foot vein which contained some visible gold.

The samples assayed as follows:

No. 1 : Gold: \$2.89 , Silver \$0.21, Total \$3.10

From 10 foot shaft at south end of property.

Cut samples across 4 to 5 feet of broken quartz.

Very hard.

No. 2 : Gold \$8.27, Silver \$0.30 Total: \$8.57

From location hole on property east of Southey's.

Very hard quartz. Across 4 feet. Found visible gold 10 feet north of sample.

No. 3 : Gold \$ 2.07, Silver \$0.09 Total: \$2.16

From tunnel "no. 2 South" , near south end of big outcrop. Across 10 feet of broken quartz. Hanging wall portion of vein.



- No. 4 : Gold : trace Silver: trace Total: trace  
From same tunnel as no. 3. Across 18 feet of foot wall part of vein.
- No. 5 : Gold \$1.65, Silver \$0.28 Total : \$1.93  
From property lying east of Southey's.  
Across 15 feet in small open cut.
- No 6 : Gold : trace Silver: \$0.16 Total \$ 0.16  
From open cut on big vein at north end of hill, above tunnel No. 1 . Barren looking broken quartz, said to be very low grade. Not full width of vein. Across 5 feet.
- No. 7: Gold: \$62.42 Silver \$2.86 Total \$65.28  
High grade ore from box at open cut and irregular hole at north end of hill.
- No. 8: Gold \$2.89, Silver \$0.09 Total \$2.98  
From side of short crosscut on big vein at irregular hole. Short fissured brown quartz. Across 7 feet not full width of vein.
- No. 9: Gold \$100.04 Silver \$2.63 Total \$102.67  
Selected sample from float near irregular hole.  
Said to be high grade ore.
- No. 10: Gold \$7.85, Silver \$0.29 Total: \$8.14  
From Shaft No. 1 on west dipping vein near camp.  
cross cut into foot wall 50 feet below collar.  
Broken quartz and some rhyolite. Across 20 feet.
- No. 11: Gold \$3.31, Silver \$0.06, Total: \$3.37  
Same shaft as No. 10. Same depth . Across 15 feet in cross cut into hanging wall of shaft. White rhyolite with small quartz seams. Short fissured ground.
- No. 12: Gold \$2.07, Silver \$0.05 Total \$2.12  
Same cross cut as No. 11 Across 9 feet additional to face of cross cut.



No. 13: Gold \$12.82, Silver \$0.21 Total: \$13.03  
From Shaft No. 1, Twenty feet from Collar. 3 feet  
across vein on which shaft was sunk . Said to be good  
ore.

No. 14. Gold: \$71.93 Silver \$1.86 Total: \$73.79  
Piece of float near irregular hole said to assay  
high.

On the large vein none of my samples of the vein  
in place show workable values. The pieces of float assay  
high, but ore of this character has not been found in place.  
In shaft No. 1, the 3 foot sample 20 feet below the collar assay-  
ing \$13.03, and the 20 foot sample from the cross cut 50 feet be-  
low the collar , assaying \$8.14 may indicate an ore body, but  
on the whole I do not regard the showing on this property as  
sufficeint to warrant our considering it further.

Respectfully submitted,

J. A. Burgess

Tonopah, Nevada,

Nov. 5th, 1910.