



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the Grover Heinrichs Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

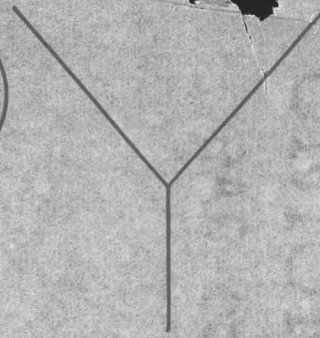
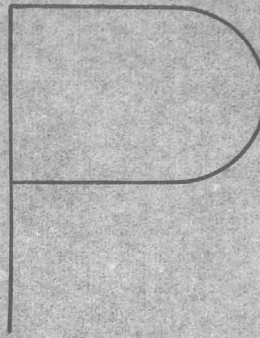
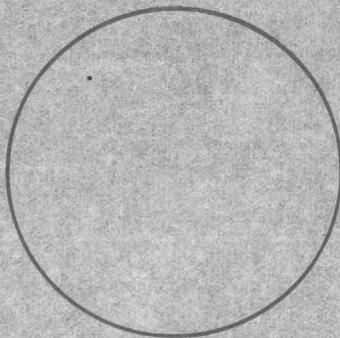
The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

Date unknown
but written
when Au
was \$35.00/oz



DESCRIPTION OF THE WARRIOR GOLD MINE
in Nye County, Nevada
Mineral

LOCATION

The Warrior Gold Mine is located in the Athens Mining District Nye County, Nevada, approximately 35 miles East of Mina, Mineral County, Nevada.

It is reached by a graded county road from Mina, Nevada which is the shipping point on the Mina Hazen branch of the Southern Pacific Railroad. This road also connects with Nevada Highway No. 3 at Mina, an oiled highway between Reno, Nevada and Las Vegas, Nevada. The above mentioned county road is passible throughout the year except after an occasional bad storm, when it is either muddy or has been drifted with snow. The county is very cooperative in keeping this road open. This road is now being used by a 15 ton diesel truck hauling ore.

The post office is Mina, Nevada. There are also Postal and Western Union Telegraph offices there, as well as long distance telephone connections. The mine is connected by a private telephone with the Simon Lead Silver Mine, 5 miles distant which in turn is connected to Mina by the Mineral County Power System's private telephone.

The Warrior Mine is located in high foothill region at the North end of the Cedar Mountain Range and the elevation is approximately 6,000 feet.

CLIMATE

The climate is typical of the central Nevada desert. It is high enough to escape the extreme heat of the summer but does have considerable cold weather in winter but rarely below zero. There is nothing to hamper year-round operations providing enough extra supplies are carried in stock to carry on through a week or two of occasional storms.

LABOR

Mina is a mining camp and there is a plentiful supply of non-union experience white labor. If Mexican labor is desired there is sufficient capable men available at Tonopah, 100 miles to the South. The usual scale of the district is \$5.00 to \$5.50 per 8 hour shift.

WATER SUPPLY

The water supply is available from springs in the granite about 4 miles from the property. These springs need further development but will furnish sufficient water for a 50 to 75 ton flotation or cyanide plant if water saving equipment is installed. This water can be brought to the mine by a gravity flow. The water rights go with the property. Three miles of 2½ inch pipe line is now in but it is in a poor state of repair.

POWER

The Mineral County Power System's power line extends to the Simon Silver Lead Mine, 5 miles distant, but due to the fact that about half of the transmission line has been stolen, and that their power rates are extremely high it would be more advisable to use diesel power.

TIMBER

There is no local timber available for mining or construction purposes but the hills above the mine are covered with pinion pine and juniper for fuel. The source of mining and construction timber is either from Reno or Fallon, Nevada.

ADJOINING PROPERTIES

Four miles distant is the Omnco Gold Mine which has a production record of \$800,000. This property was equipped with a 100 ton cyanide plant. They found a complicated fault at the 200 foot level and had squandered their money so were unable to do the proper exploration, consequently they closed. Since then leasers have been very successful at the Omnco.

Five miles distance is the Simon Lead Silver Mine. It is in the lime formation. The values there are in lead, zinc, gold, and silver. At the 800 level and on the opposite side of a fault from the time they encountered a gold bearing formation in the

rhyolitic. This mine has had approximately a million dollar production and still has plenty of good ore but is tied up in litigation.

There are several small properties nearby out of which there has been some production but of which there is no authentic record.

OWNERSHIP

The Warrior Gold Mine is owned by the Warrior Mining Company. The principal and controlling owners are Joe Costa, Mina, Nevada and Harry McNamara of Tonopah, Nevada, Joe Costa being the man in charge. It has been owned by this company for a number of years.

PROPERTY

The property consists of 12 standard mining claims of 20 acres each, held by location and all in good order as to titles.

SURFACE IMPROVEMENTS

The property is equipped with a two-drill compressor, powered by an automobile engine, a gasoline hoist, a timber head frame, with ore bin, a hoist building, a blacksmith shop, a warehouse, a boarding house and two small bunkhouses. All of these improvements are being used by leasers at the present time so are usable.

UNDERGROUND WORKINGS

South Shaft, 200 ft. depth on 45 degree incline.
100 ft. level, 870 ft. drifts on ore. 1230
200 ft. level, 360 ft. drifts on ore. 610

North Shaft, 140 ft. depth on 35 degree incline.
140 ft. level, 300 ft. drift on ore.
200 ft. winze on 35 degree incline.
240 ft. level, 110 ft. drift on ore.

Distance from North to South end of workings, 1,050 ft.

Distance between North and South shaft, 340 ft.
Accompanying map will show workings in detail.

DESCRIPTION OF ORE DEPOSITS

The vein shown on the map in the north shaft is a fissure vein with some replacement of the wall rock. It is composed of an extremely hard bull quartz in what the geologists have classified as a docite. This vein has a dip to the west of between 30 degrees and 40 degrees. It has an average width of $4\frac{1}{2}$ ft. Since the map was made and within the last month I am informed by the owner that the leasers worked on a small lead on the crosscut from the 140 ft. station of the north shaft to the drift on the vein and they have opened a vein 7 ft. in width. I ran the control assay on a 65 ton shipment and it ran \$27.00 a ton.

The 200 ft. winze was sunk by a contractor for a San Francisco concern. It passed through the vein and on into the hanging wall from the 140 level to the bottom on the 340 ft. level. The samples taken in the drift on the 240 ft. level were just portions of the vein as the drift was run in the softer wall rock. Since the map was made another engineer has blasted through the vein and the values were corresponding to those on the 140 ft. level.

The values in the vein in the North shaft are very consistent as has been proven by the shipments made by the leasers.

In the South shaft the vein is in what the geologists classify as altered rhyolite. It is composed of quartz particles and a clay gouge. It has the appearance of a mineralized fault. The values are more spotted in this shaft and a higher grade ore could be mined but not in such a quantity. My recommendation is that this vein be used as a sweetener to keep the mill heads on an even value.

Since it was connected with the property leasers did some work in the South drift on the 200 ft. level where two samples indicated values. They worked a previously undiscovered ore body for 175 feet in length shipping it to the Dayton Mill at Silver City. The values in this was always above \$20.00 per ton. This vein continues down below the 200 ft. level.

There is definitely two veins in the Warrior Mine, both of which have a proven production. I do not have the shipping records in hand at the present time but they may be examined at the mine.

DESCRIPTION OF ORE

The values are chiefly gold, with very little iron sulphide, in a quartz gangue.

ESTIMATE OF ORE RESERVE

The following table will give an estimate of the ore reserves as calculated from the sampling I did in November, 1936. Since then new reserves have been developed which should be further checked by sampling. The estimates I have made have been proven to a greater extent by the works of the leasers.

ORE RESERVES

North Shaft:

5300 Tons at \$13.56 per ton	\$71,868.00
Aver. width 4.5 ft.	

South Shaft:

520 Tons at \$17.32	9,006.40
Aver. width 4.0 ft.	

542 Tons at \$10.93	5,923.06
Aver width 3.0 ft.	

2,730 tons at \$15.26	41,659.80
Aver. width 2.5 feet.	

Totals: 9092 tons at \$14.13	\$ 128,457.26
------------------------------	---------------

The above estimates were derived from cut samples assayed by a very reliable assayer and calculated at \$35.00, 1 oz. gold.

PRESENT CONDITION

At the present time the mine is being operated by leasers under the supervision of the owners who insist upon very miner like work. The leasers are increasing the value of the mine by opening up milling ore even though they are sending out shipping ore. They receive 90% of the mill assay, pay a \$4.50 milling charge and a \$5.00 hauling charge. The royalty they pay to the owners is 15% of the recovered values.

The mine is in very good condition. Tracks are installed to all working places. There is considerable air pipe line in place. There is only several minor caves to clean up. It is in shape for an examination and for check sampling at any time.

MINING

After check sampling and a study of the conditions, the mine could be put on a production basis in a very short time. A fairly extensive development program should be carried along at the same time to prove new segments of the vein and to develop the ore at lower levels.

MILLING

Due to water conditions and the extent of the ore bodies, nothing over a 50 ton mill should be installed on the property. However the mill should be so arranged that by the addition of another ball mill the capacity could be stepped up. Due to the hardness of the ore it should be crushed as fine as possible, before entering the grinding unit.

Basing my judgment on previous actual milling tests, in my own mill and in another custom mill in which I was employed.

and handled the Warrior Ore, the amalgamation flotation process would be the most economical and practical, keeping in mind that arrangements to treat the concentrates on this ground should be made as soon as possible.

CONCLUSION

In conclusion I wish to state that the Warrior Mine has as much blocked ore as is possible to find in any mine offered for sale. There are no complex problems to solve in regards to mining or milling. While it is not a big mine it has all the ear-marks of a very profitable medium sized gold mine if properly managed. There are no indications whatsoever of its losing value at depth. In fact everything points to its being a deep-seated deposit.

I have spent over three months on the ground in addition to the sampling of the mine. I have also been connected with the milling of about 500 tons of ore from the mine so I am well acquainted with it in all phases.

R.R. Weideman
R.R. WEIDEMAN
Mining Engineer
107 E. Fourth St.,
Reno, Nevada

RRW:GS