



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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07/27/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK WONDER GROUP

ALTERNATE NAMES:

OATMAN CHAMPION GOLD

MOHAVE COUNTY MILS NUMBER: 57C

LOCATION: TOWNSHIP 20 N RANGE 20 W SECTION 31 QUARTER SE
LATITUDE: N 35DEG 04MIN 28SEC LONGITUDE: W 108DEG 26MIN 45SEC
TOPO MAP NAME: OATMAN - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

GOLD LODE

BIBLIOGRAPHY:

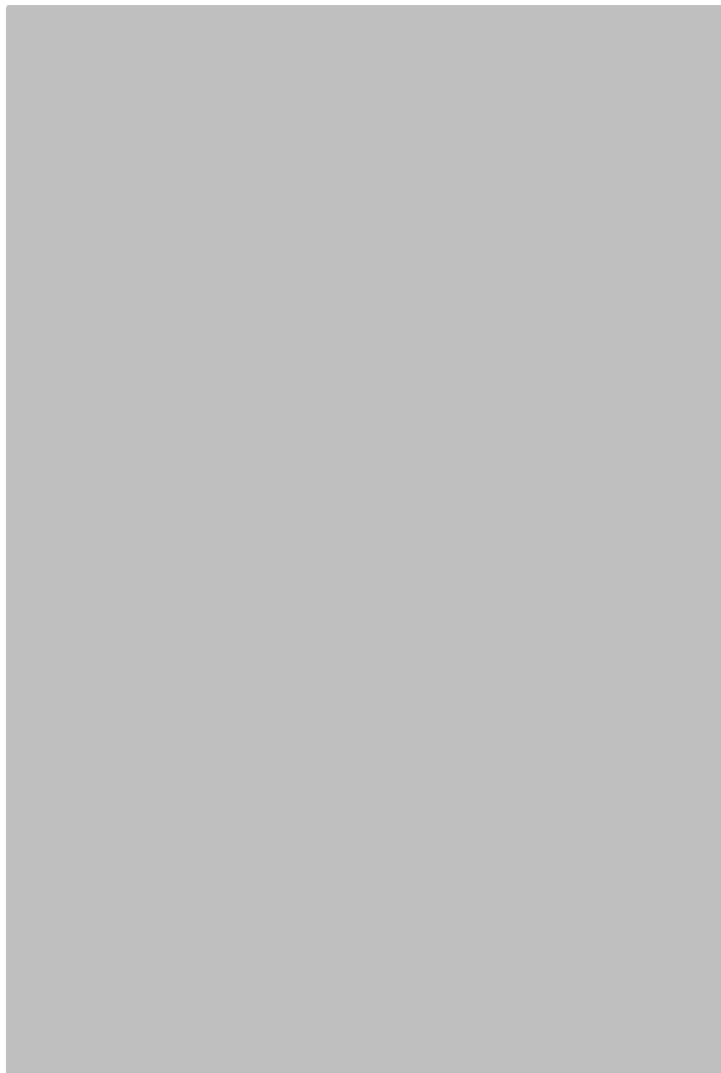
USGS OATMAN QUAD
ADMR HOUSEHOLDER MAP
ADMR BLACK WONDER GROUP MINE FILE

BLACK WONDER GROUP

MOHAVE COUNTY

Mining World May 1963 p. 38

See: Adventurer - John Moss, Pg. 7, Roman Malach's Booklet, Mohave County Historian,
1977, 'Los Angeles Claim



OATMAN, ARIZ.. Feb. 25

1916.

OATMAN CHAMPION GOLD MINES COMPANY.

Gentlemen:

Complying with your instructions we have made an examination of the property known as the Black Wonder Group, situated in the Tom Reed Gold-Road portion of the San Francisco Mining District, in Mohave County, State of Arizona, about five miles in a direct line northwesterly from the town of Oatman. The claims have been regularly surveyed as shown on the accompanying map, and embrace an area of approximately eighty-seven acres.

The title to the property is presumably perfect, and all matters relating thereto are in your possession.

The group consists of the following claims:

- ✓ Black Wonder
- ✓ Wonder, Jr.
- ✓ Black Wonder No. 2
- ✓ San Francisco
- ✓ Los Angeles, and
- ✓ Julia Fraction,

and are now reached by wagon road about seven miles

from Oatman, which road is sufficient for all present purposes.

Water can be obtained from Silver Creek, about half a mile distant, but in all probability sufficient for prospecting and camp purposes can either be pumped from the old, or No.2 shaft hereafter referred to, or developed on the property at some point where there are now evidences of springs.

Historical.

The northern and northwestern portion of the Tom Reed - Gold Road district has only recently come into prominence, more particularly on account of the work that has, within the past few months been done on the Ivanhoe, Times, Hardy, and other properties. As a rule, throughout this district, the values on the surface are quite low, but in these mines there are at times exceptionally high values at and near the surface. In the Times, particularly, very high values have been obtained at the grass roots, and work is being carried on upon several properties with reasonable expectations of developing into producing mines.

Topography.

The claims embraced in this group lie to the West of Silver Creek in a low range of hills, the highest point of which is the Apex of the Black Wonder vein, standing probably 300 feet above the surrounding country, and this has so withstood erosion that the vein itself is one of the predominating features of the whole district. There is one main, and several smaller washes, draining to the north into Silver Creek, cutting through the property.

Geology.

The ground covered by these claims consists essentially of tertiary flows dipping toward the south, and as exposed are found to be as a rule the later andesites, cut by a very extensive system of intrusive rhyolites. This rhyolite intrusion occupies the majority of the northern portion of the claims and is peculiar in that it has spread out on its southern extremity in the form of fingers, each finger approaching somewhat nearer to the main vein system, and penetrating the ande-

site on the hanging wall side of the vein to a very marked degree.

The Black Wonder vein, which will be later referred to in more detail, is essentially a silification of the andesite, which silification is more pronounced as it approaches to what may be termed the actual hanging wall, in other words, the more intense silification merges gradually into the less altered andesite to the south and eventually the footwall will be determined more by the actual lack of gold content than by any particular line of demarcation. The vein itself would prove it to be the result of a fault fissure with subsequent filling and replacement in the later andesite, although it has been described as a contact between dacite and andesite, but we see no evidence whatever of dacite, it being merely a progressive alteration caused by the silicization on which has followed the fissure referred to, and the greatest change here has been in the close proximity of the fissure, where the entire mass is a white crystalline quartz carrying some gold values, as shown both on the surface and by the No.1 shaft, which has attained a

depth of approximately sixty-five feet.

The rhyolite intrusion before referred to is shown with its offshoots more particularly on the accompanying map. You will notice that each off-shoot is apparently approaching closer to the vein in a progressive ratio as it reaches the Eastern end of the property and within a short distance of the Eastern end, the rhyolite actually penetrates the vein matter, which is here exposed for a width of not exceeding twelve or fifteen feet. The vein itself, or speaking more correctly, the more siliceous portion of the fissure, attains its maximum width on the Wonder fraction ground, where it is seen to be not less than forty feet in width, and at about this point there is an apparent well-defined fault which has thrown the vein to the South, a distance of from fifty to one hundred feet. A small fault is also shown with a throw in the same direction, about in the center of your ground, at the point marked "A" on the map; and on the Clack and Gummell property to the south, there is one of the same faults, showing these to be a series of conformable step faults in the vein.

Ore Occurrences and Development.

The vein itself occupies a fault fissure as before stated, but whilst the hanging wall is very clearly defined there is actually no foot wall, the fissure probably being of great width and the mineral bearing solutions have followed up in this well defined hanging wall fissure and have penetrated the filling on the southern side. These solutions replaced the andesite by spar and there has been a later partial or in some places complete replacement of the latter by quartz. The vein is very prominently exposed for about 1,800 feet on your ground and continues on the east end into the Rose Bud claim. On the west end, however, it has been faulted, and owing to a considerable covering beyond this point it is difficult to determine the position of the fissure. The No.2 shaft, however, which has penetrated to a depth of about one hundred feet (but which is now half full of water and therefore cannot be examined) appears to be on a portion of the main vein, which is here probably very much broken up and contorted.

From this point Easterly to the East end of the Black Wonder claim the vein is shown to be

from twenty to forty or more feet in width, and whilst the amount of work so far done is very limited, being confined to a number of shallow surface cuts and one vertical shaft, shown on the accompanying sketch marked "B" attaining a depth of sixty-five feet. This will be referred to as the No.1 shaft.

The vein strikes about N. 75° W. and dips to the north at a general angle of approximately sixty-five degrees, but this dip varies slightly in different parts of the exposure. The No.1 shaft was commenced about on or in the hanging wall and is in the vein matter practically all the way down. At the bottom there is exposed from end to end of the shaft a faulting movement, which is evidently a parallelism of the strike faulting shown very prominently in other more developed veins of the District - this strike fault has doubtless had a very marked bearing upon the vein enrichment as it formed a convenient channel for the upward movement of the highly mineral charged waters percolating through the fissure and depositing their mineral contents in the vein both in the proximity of this and towards the main fault fissure which forms the hanging wall.

Samples taken from the bottom of this shaft by us assayed from \$0.83 to \$1.65, which may be regarded as very favorable in this Camp, where proven ore bodies have been found to have a limit of upward enrichment as much as 300 feet below the surface.

Other samples were taken from the various surface cuts on the vein and show somewhat similar values, although at the No.2 shaft some very high grade ore has been encountered.

At one time ore was taken from a small surface cut within a few feet of this shaft and treated on a rocker and it is stated that very high values were obtained. A sample taken by us gave over \$15.00, but this appears to have been more in the nature of a pocket than a defined ore shoot.

Recommendations.

Unfortunately, the work so far done has been so limited that nothing conclusive has been determined as to values, and we strongly advise that, instead of carrying on work in the No.1 shaft, which would necessarily have to be enlarged and timbered, a

new vertical shaft be sunk at a point designated by us and situated about three hundred feet to the East. This shaft should reach the vein at a depth of 150 to 200 feet and it is a reasonable assumption that in penetrating it, values will be encountered. At a depth of 400 feet, which should be the present objective point, it would not require a very great length of crosscut to determine the width and values.

Conclusion.

In view of the great size and continuity of your vein, and of the fact that it contains some values, however small (and it must be taken into consideration that at times good values are shown), we are certainly of the opinion that you have a property justifying the expenditure of a considerable amount of money for development, in the not unreasonable expectation of opening up a body of ore of commercial importance. We estimate the cost of the proposed shaft and necessary work as follows:

Equipment, Hoist, Compressor, Drills,	
Buildings, Pump, Tools, etc -----	\$ 5,000.00
Shaft, 400 feet, @ \$25.00 per foot	10,000.00
1,000 feet of cross-cutting and	
drifting on the vein, at \$9.00	<u>9,000.00</u>
	24,000.00

With this expenditure the property should be in a position for an active campaign of development in blocking out ore ready for the installation of a mill.

We are gratified to be able to state that, taking into consideration the general characteristics of the district, we have no hesitancy in recommending your property as one of exceptional merit, well worthy of the work outlined, and an investment promising good returns for the money invested.

Yours very truly,

A handwritten signature in cursive script, appearing to read "H. J. Johnson". The signature is written in dark ink and is positioned to the right of the typed closing "Yours very truly,".