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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MOONLIGHT

ALTERNATE NAMES:

MARICOPA COUNTY MILS NUMBER: 219

LOCATION: TOWNSHIP 6 N RANGE 6 W SECTION 18 QUARTER NW  
LATITUDE: N 33DEG 52MIN 08SEC LONGITUDE: W 112DEG 55MIN 55SEC  
TOPO MAP NAME: VULTURE MOUNTAINS - 15 MIN

CURRENT STATUS: RAW PROSPECT

COMMODITY:  
COPPER OXIDE

BIBLIOGRAPHY:  
USGS VULTURE MTN QUAD  
ADMMR MOONLIGHT FILE  
ADMMR "U" FILE, MARICOPA CU6

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

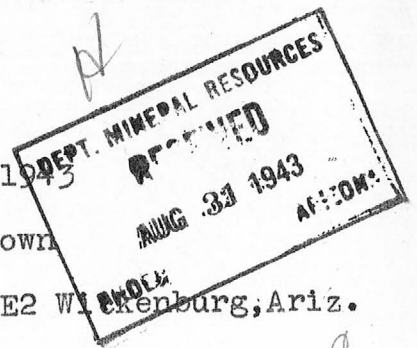
Mine MOONLIGHT

Date August 19, 1943

District Vulture Mining of Maricopa County

Engineer B. W. Brown

Subject: Examination for Mrs. Della J. Hartman, address Box E2 Wickenburg, Ariz.




The Moonlight prospect, which is situated in the Vulture mining district of Maricopa county, comprises two unpatented claims owned by Mrs. Della J. Hartman whose address is Box E2 Wickenburg, Arizona.

The two claims, designated as the Moonlight #1 and Moonlight #2, may be reached from the Golconda camp, a distance of some 12 or 13 miles westerly from Wickenburg, by about six miles of ungraded desert road- thence by trail for a distance of about 1,000 ft to the first workings. It may better be described as situated about 4 miles westerly from the Owl Mine and about 4 miles southwesterly from the Golconda camp.

The main workings on the #2 claim are inaccessible and consist chiefly of a shaft which is estimated to be about 130 feet deep. There is, also, on this claim a fifty foot adit tunnel which lies about fifty feet below the collar of the shaft but which does not connect with it. The main workings on the #1 claim which adjoin to the south were examined. These workings consist principally of a shaft ( about 60 feet deep ) together with some short lateral working and crosscuts.

The mineral horizon of the two claims is characteristically the same. Both show fissure replacement veining in coarse granite with considerable quartz evident and some showing of Azurite and Malachite in places. There were some high-grade specimens of Malachite-Azurite ore on the #2 dump. In the workings which were examined, however, the copper mineralization did not persevere.

No water has been developed on the property; the workings are dry.

  
B. W. Brown-FIELD



GEOLOGICAL:

The general formation of the area is granodiorite, with some eruptive dykes, which may be andesite. Owing to their altered condition when observed, it was impossible to definitely classify them in the field. They trend across the other formation cutting the granite. Much erosion has occurred and the topography is somewhat rough. Some distance to the northeast sedimentaries appear, as a bold cliff, but if this ground was ever overlaid by them, as is probable, they have been completely eroded. Fissuring and fracturing of the granite, followed by water circulating in the broken zones, in which the contained mineral was deposited, accounts for the ore veins.

DEVELOPMENT:

The Moonlight No. 1 Shaft, two hundred and ten feet deep. At a depth of one hundred and thirty five feet it is cut by the Rebel Tunnel, an adit crosscut one hundred and thirty six feet in, where the vein is intersected and drifting on the vein continued one hundred and eighty feet, southeasterly, and one hundred feet diagonally across the vein in a northerly direction. Some stoping has been done above this level near the shaft.

The Moonlight No. 2 Shaft, fifty feet deep, sunk on one of the north-south veins.

A tunnel, one hundred and ten feet in length, on the vein, the portal of which is located near the northwest end line of the Rebel Claim.



The Swallow Shaft, two hundred and seventy five feet deep, on the vein, located about the center of the Old Ironsides Claim. At a depth of eighty feet, a drift has been run two hundred feet to the northwest and one hundred and fifty feet to the southeast. Approximately, one half of the ground above this level has been stoped to the surface.

Level No. 2 has been driven, from the shaft, at a depth of two hundred feet, about two hundred feet northwesterly and one hundred feet southeasterly. Some crosscutting has been done on this level and a vein laying to the southwest out, upon which considerable drifting has been done.

The Whim Shaft, located about five hundred feet northwest of the Swallow Shaft, has been sunk one hundred feet deep, where some drifting was done and a winze sunk thirty eight feet.

The Golden Wonder Shaft, about three hundred and twenty feet northwest of the Whim Shaft, one hundred feet deep.

The Golden Wonder Tunnel, driven one hundred and fifty feet on the vein, cuts the last mentioned shaft at the bottom.

A shaft, about twenty feet deep, has been sunk on a vein on the Laughing Water Claim, near the gulch, about one thousand feet northeast of the mill. This shaft shows some good ore.

Several shallow openings have been made on a vein on the Foster No. 2 ground, which is supposed to be the same vein as the one upon which the Moonlight No. 2 shaft is sunk. These openings all show some ore.



### VEIN SYSTEM AND ORE OCCURRENCE:

The vein system is somewhat complex, as the ore exposures occur in what appears to be the two main veins, extending in a general northwest and southeasterly direction with a dip of about seventy degrees to the northeast and connected by cross-fissures. There are also several other veins trending nearly north and south and apparently of the same age as the northeast and southwest veins. The first mentioned veins vary in size, from twenty to one hundred feet in width, with ore in places from two to eight feet in width. The north and south veins are smaller. The one upon which the Moonlight Shaft No. 2 is sunk, is the only one upon which development to any extent has been done. In this shaft which is fifty feet deep, the ore averaged about twelve inches in width, while the vein shows to be about eight feet wide. One car of ore was shipped from here which ran sixteen percent copper and 0.74 oz. gold, netting about one hundred dollars per ton. This vein is opened by several shallow workings on the Foster Claim, from 2000 to 2500 feet to the north, all of which show some good ore.

The Moonlight Shaft No. 1 is sunk upon the main vein, to a depth of two hundred and ten feet, and has shown ore all the way. At a depth of one hundred and thirty five feet the shaft is cut by the Rebel Tunnel and considerable stoping has been done above this level, where the ore in places was eight feet wide, shipments in car lots running as high as twenty per cent copper and 1.90 oz. gold per ton. The work done on this level, shows the vein to be very wide, and usually thoroughly leached and oxidized. The work is such that the absolute width<sup>h</sup>



of the vein is difficult to determine, but it is not less than fifty feet.

Following this vein down the mountain to the gulch, about twelve hundred feet, the croppings show very strong. A tunnel has been started on the vein, on the southeast side of the gulch, at a distance of about one hundred feet and is now showing some ore. This tunnel will cut under the Moonlight No. I shaft, about three hundred feet, and will be on the vein the whole distance of about twelve hundred feet. This vein, on its strike to the northwest, diverges somewhat from the course of the vein, upon which the Swallow Shaft is sunk, and the two are connected by a fissure having a nearly north-south course, the junction of the latter with the Swallow vein being about five hundred feet easterly from the Swallow shaft.

To the northwest of the Swallow shaft the various openings on the vein, among which are the Golden Wonder Shaft, Golden Wonder Tunnel and the Whim Shaft, all show the vein to be large, well defined and highly mineralized. All of these workings show a large amount of hematite, a car of second class ore, shipped from the bottom of the Whim Shaft, running 6.87 per cent copper, 0.32 ozs. gold, 54 per cent iron, and 36 per cent insoluble. Near the top of the ridge, above the Whim Shaft, the vein is cut by a porphyry dyke, which shows considerable mineralization. At its junction with the vein, sufficient work has not been done to determine what effect it has on the main vein. To the northeast of the veins above



above described, there is at least one other vein, upon which some work has been done, the result of which has been to prove the existence of a strong vein, carrying some good ore.

From the Swallow Shaft, two levels have been driven, No. 1 at eighty feet depth and No. 2 at two hundred feet. Considerable stoping has been done above No. 1, much of the ore having been run through the mill. The treatment was by stamps, amalgamation and concentration of tailings, on one Wilfley Table. I have no data, showing the amount of ore so treated or proceeds thereof, but the tonnage must have been considerable, as evidenced by the ground worked. No stoping has been done below No. 1 level, the ore shipped from No. 2 having been derived from drifting. The last car shipped from this level ran 16.82 per cent copper and 0.70 in gold.

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