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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: WATERFALL MINE

ALTERNATE NAMES: WATERFALL NO. 3 CLAIM

PIMA COUNTY MILS NUMBER: 593

LOCATION: TOWNSHIP 18 S RANGE 17 E SECTION 9 QUARTER SE LATITUDE: N 31DEG 53MIN 01SEC LONGITUDE: W 110DEG 36MIN 47SEC TOPO MAP NAME: EMPIRE MOUNTAINS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY: SILVER COPPER GOLD LODE

BIBLIOGRAPHY: ADMMR WATERFALL MINE FILE

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Waterfall Mine

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Date March 27, 1958

District Empire Mining District, Pima County.

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County. Engineer Axel L. Johnson

Subject: Field Engineers Report. Personal visit & Information from Paul F. Herberman.

Location Senttion 9 -- T 18 S -- R 17 E. Approx. 40 miles SE of Tucson. Starting from Tucson, take Highway 80 SE for 25 miles to Mountain View. Turn right on the Mt. View-Sonoita Road (#83), and drive south for 10 miles. Turn left (east) and drive about 5 miles on a mine road, (which is rough and steep) to the mine.

Number of Claims 3 unpatented claims. Claims located in August, 1957.

Owners V Paul F. Herberman, 5406 East 18th Street, Tucson, Ariz. Ramon Morales, Tucson, Ariz.

Operators Same as above.

Principal Minerals Silver and Copper

Present Mining Activity Mining ore. Production about 12 tons in 2 months. 5 men working from 3 to 4 days a week.

Geology & Mineralization Small lenses and pockets of ore are found between the bedding planes of the limestone formation. Biggest pocket is reported to have been about 3' x 6' x 6', and smaller pockets reported as about 1.5' x 1.5' x 1.5'. The limestone formation dips about 45 degrees to the SE. Schrader's report classifies it as Carboniferous in age. Some beds of a grey quartzite can be seen between the limestone beds. According to Schrader, the limestone beds are underlain by intrusive granite, and the deposits owe their origin to circulating thermal solutions that accompanied or growx followed the intrusion of the granite, (see pages 141 to 152 of Schraders report). Minerals found in the Waterfall mine are chiefly lead and copper carbonates ---cerussite, malachite, azurite, and a small amount of wulfenite and jarosite. These are accompanied by hematite and limonite.

Ore Values
as follows:Mr. Herberman reports 2 samples taken from the ore stockpile (about 12 tons)(1) Silver -- 214.8 oz.; Gold -- 0.15 oz.; Copper 1.35 %
(2) Silver -- 77.4 oz.; Gold -- 0.22 oz.; Copper no assay.This ore stockpile is all handsorted ore.It would seem on account of the big difference

in Silver between the two assays, that the silver values are very spotty and not uniform.

Ore in Sight & Probable No ore in sight. Probable ore appears to be very small.

<u>Milling & Marketing Fazilities</u> No mill. Operators plan to haul the ore to Sonoita for shipment to a smelter.

Mine Workings 1 inclined shaft (incl. 20deg) about 20 ft., followed by a 50 ft. long drift.

Present Mining Operations Operators started sinking the shaft about 2 months ago. Since then, they have taken out 12 tons of handsorted ore and placed on a stockpile. The ore and waste is shoveled into a small 250# track and hoisted to the surface with a hand windlass. At the surface, the ore is sorted out, and carried up a 50 ft. slope in buckets to the stockpile.

<u>Proposed Plans</u> Operators plan on selling the ore to a smelter. They plan to continue mining, as long as they can find any ore. They have one pocket of ore left to clean out.

DEPARTMENT OF MINERAL RESOURCES state of arizona field engineers report

Mine Waterfall # 3 Claim

Date March 13, 1959

District Empire Mining District, Pima Co.

Co. Engineer Axel L. Johnson

Subject: Field Engineers Report. Personal Visit & information from Paul F. Herberman, Jr.

Location Section 9 -- T 18 S -- R 17 E. Approx. 40 miles SE of Tucson, and about 1 mile NE of Hilton Ranch. It is near the Waterfakl Mine, inspected by me on March 27, 1958. (See report of same) For more precise directions to reach the property, see my report of the Waterfall Mine under date of March 26, 1958.

Number of Claims 1 unpatented claim, located on Feb. 28, 1959.

Owners Paul F. Herberman and Paul F. Herberman, Jr., 5406 East 18th St., Tucson, Ariz.

Principal Minerals 4 Copper

Present Mining Activity A small amount of location work.

Geology The vein exposed strikes NE-SW, and dips about 60 degrees to the SE, with granite on the footwall and limestone on the hanging wall. Vein is from 2 to 4 ft. wide, with spotty mineralization of from 8 to 10 inches. The gangue material is mostly marbleized limestone, which is very hard and compact. Ore minerals found are chiefly chalcopyrite, bornite, and malachite. Vein is exposed in an incline shaft of unknown depth, and also for a considerable distance up the hill, where a number of shallow open cuts have been dug.

Ore Values No assays of ore samples submitted by Mr. Herberman. The grade of the ore will be dependent on the amount of hand sorting.

Old Mine Workings (1) Inclined shaft, inclined about 60 degrees following the vein. Depth not known, as it is filled with water to within about 20 ft. of the surface.. (2) Several shallow open cuts on the same vein further up the hill.

<u>Present Work</u> Owners have started work at one side of the inclined shaft, about 12 ft. below the surface, evidently to serve as their location work. Since their only equipment consisted of hand steel and shovel, very little progress has been made.

Special Difficulties The property is located about 1/2 mile from the road. A road up to the inclined shaft, where operations are contemplated, would require about 1/2 mile of road construction in a rather rough terrain, with rock blasting on a steep side hill.

<u>Remarks</u> Mr. Herberman was advised that the success of mining operations on this claim would depend on the finding of a wider and richer vein in depth, and that considerable capital would be required for building a road into the property and for exploring the vein to greater depths. He was advised to try to lease out the property to some operator who had ample **supt** capital for this work.

Additional The adjoining Waterfall Mine, inspected on March 27, 1958 (See report on same), was closed down shortly after my visit on Mar. 27., and remains idle. The stockpile from the operations, amounting to about 15 tons, was shipped to the International smelter, near Miami.