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05/12/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: EIGHTY ONE MINE

ALTERNATE NAMES:

YUMA COUNTY MILS NUMBER: 742

LOCATION: TOWNSHIP 4 S RANGE 19 W SECTION 36 QUARTER NE
LATITUDE: N DEG MIN SEC LONGITUDE: W DEG MIN SEC
TOPO MAP NAME: CASTLE DOME MTS 15"

CURRENT STATUS:

COMMODITY:

LEAD
SILVER

BIBLIOGRAPHY:

ADMMR 81 MINE FILE

81

Pb

Yuma 14 - 5 T 3 S, R 18 W

Mrs. Donna Williams, ~~2579 University Ave., San Diego~~

'42

unclaimed 6-19-46

OWNER

WILLIAMS, Donna (Mrs. *John C.*) ME-24
~~2579 University Ave.~~ 12-2-42
~~San Diego, Calif.~~ *unclaimed 6-19-46*

LEAD (Silver)

-81-

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 81 MINE

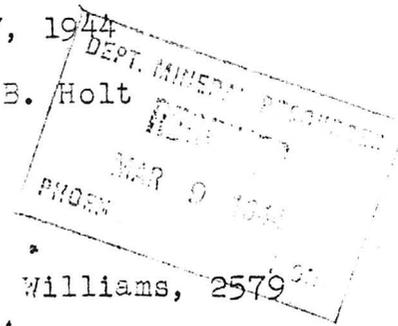
Date March 7, 1944

District Castle Dome, Yuma Co., Ariz.

Engineer Elgin B. Holt

Subject:

R E P O R T



OWNERS: Dr. John C. Williams, (his wife) Dona F. Williams, 2579 University Avenue, San Diego, California, and Theodore N. Doro, Attorney at Law, Home Builders Bldg., Phoenix, Arizona.

METALS: Lead and silver; also fluorite, or calcium fluoride.

LOCATION & AREA:

This property, consisting of 5 or more unpatented claims, is situated 45 miles northeast of Yuma, in the western foot-hills of the Castle Dome Mountains, and about one-half mile east of the Castle Dome Mines, now being worked by the Arizona Lead Company of Yuma; said company being owned by M. A. Holmes, K. A. Holmes and George I. Holmes. The company mentioned owns and operates a 200-ton gravity concentration mill located 25 miles southwesterly from the mines on the north bank of the Gila River, and one-half mile west of the McPhaul bridge across the Gila River, on State Highway 95. Lead-silver concentrates from this mill are shipped to the El Paso Smelting Works.

EXAMINATION:

On February 14, 1944, I visited the 81 Mine in company with Mrs. Dona Williams, one of the owners, and inspected such workings as could be entered. Due to the lack of ladders, it was not possible to cut representative samples of the ore in vein; hence this report is mainly a physical ~~but very brief~~ description of the property.

HISTORICAL:

The Castle Dome Mining District was organized in 1863. The original discovery, however, was made many years earlier. Operations have been more or less continuous ~~in the district~~ ^{area} since the district was organized and large amounts of lead and silver have been produced from the various groups of mines in this area.

During the winter months of 1941-42, the Holmes family leased 25 of the principal claims of the Castle Dome Mining property, belonging to Mrs. Eliza De Luce, and started active work under the firm name of Arizona Lead Company of Yuma. Since then operations have been going on steadily at both the mines and at the mill mentioned.

81 MINE WORKINGS:

During 1942 the 81 Mine was purchased by present owners, who established a camp at property and carried out the following work, more or less, on the main vein, which ranges from 2 to 6 feet wide and strikes N. 20 degrees west; dipping 80 degrees southwesterly: The said vein was developed by various open cuts and two shafts, one 60 feet and the other 30 feet deep on vein. This work, per Mrs. Williams, exposed a vein from 2 to 6 feet wide, as stated, with a pay-streak of galena and oxidized lead ores about 23 inches in width, from which a car load, or 50 tons of ore, was shipped to El Paso of clean hand-sorted galena. This lot of ore was shipped in an open gondola car and was stolen in transit and the car was filled with dirt.

VEIN - GEOLOGY:

The vein occurs in a wide band of schist, flanked to the east and west by andesite. The vein has been uncovered by the work mentioned for 1,000 feet, showing lead ore in place for that distance. However, the vein can be traced through the length of four claims, with lead ore cropping at intervals for that distance. The vein

gangue is composed of brecciated schist with the interstices filled with calcite, quartz, fluorspar and lead minerals, such as galena, anglesite and cerrusite. Fluorspar is an important commercial constituent of the ore and could be isolated from the lead minerals and concentrated to a marketable product by proper metallurgical processes. While lenses of almost pure fluorspar are found in all the Castle Dome mines, including the one under discussion, the average tenor of lead ores of this area approximates around 8% CaF_2 .

ASSAYS:

As stated, I did not sample the property. However, in order to more or less determine what the concentrates would run in silver, I took a sample of pure galena from the 81 Mine dumps and had it assayed by John Herman in Los Angeles; results being as follows:

| <u>Silver - ozs.</u> | <u>Lead - %</u> | <u>Total Value</u> |
|----------------------|-----------------|--------------------|
| 16.4 | 68.00 | \$125.80 |

Also for the last two years the mill of the Arizona Lead Company of Yuma has treated around 40,000 tons of dump and "gob" material from the Castle Dome Mine, and I was informed by George and Kenneth Holmes that this material, or more particularly the mill heads, runs about 7% lead and one ounce silver per ton.

Again, Arthur L. Haack, owner of the Señora Mine, adjoining the Holmes holdings on the south, advised me that he has a block of ore, between the 100 and 200-foot levels of this property, which averages 15% lead and 8 ounces silver per ton.

Furthermore, through the years, Castle Dome ores have been concentrated by gravity methods, both dry and wet, to about 60% lead, with varying silver values.

CONCLUSION:

The 81 Mine is recommended for careful investigation by anyone looking for a meritorious lead property on which to spend some money.

The property should be developed by sinking a working shaft vertically adjacent to vein to at least a depth of 400 feet, with cross-cuts to vein each 100 feet of depth and then drifts on vein at these intervals in order to block out ore. After this is done, and in the event that sufficient ore should be developed by such work, then and in that event a proper milling plant should be erected to treat the ore. Due to the absence of water at the mine, any mill that may be built would have to be located at the Gila River, near the Holmes' mill; and ores would be trucked from mine to mill.

Elgin B. Holt
Elgin B. Holt,
Field Engineer.

March 9, 1944

MEMORANDUM

ZERO QUOTA

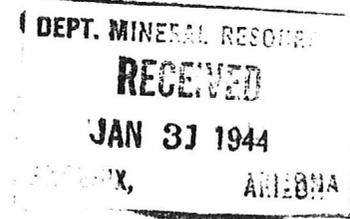
TO: Elgin B. Holt

FROM: J. S. Coupal

I have just received your letter of March 8 and your report of March 7 on the 81 Mine. You asked one question as follows: "In case others should take over this mine would it be possible for them to get a zero quote on lead."

The original quota system provided that all mines having a production of less than 200 tons of metallic copper, lead, or zinc were entitled to a zero quota. This has not been changed in any way, shape or manner and still holds. The zero quota, as you must know, entitles the property to the first premium on copper 5 cents and on lead and zinc of 2-3/4 cents each, and to repeat, these first A premiums will be in force until July 31, 1945.

JSC:LP



Jan. 28, 1944

P. O. Box 138,
Kingman, Ariz.

Mrs. Ionna F. Williams,
2579 University Ave., -4-,
San Diego, Calif.

Dear Mrs. Williams:

Referring to our conversation at the St. Patrick Hotel, in Phoenix, on January 22nd, regarding your "81" mine at Castle Dome, Pima County, and adjacent to the lead mine being worked by Holmes Brothers, I have looked over my schedule during February and find that I will be in Salome, Arizona, on Saturday and Sunday, February 12th and 13th.

Hence, if you could reach Salome Sunday afternoon, February 13th, we could leave in my car early the next morning to your property and return the same day either to Salome or to Quartzite. You can catch a bus at either place.

If this arrangement should suit you, kindly write me to my Kingman address right away, as I will remain here until February 7th and on that date I will leave for Parker, Arizona, and will spend several days between there and Salome.

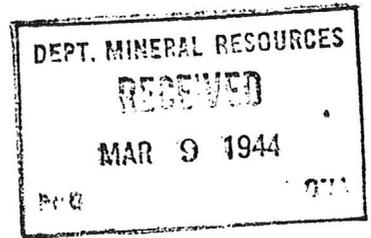
Also, if you decide to meet me at Salome on the said date, better wire to Sheffler's Hotel there to reserve a room for you. Otherwise you might not get a place to stay when you reach Salome.

Very sincerely yours,

Elgin B. Holt,
Field Engineer.

cc - J. S. Coupal
cc - To yourself,
St. Patrick Hotel,
Phoenix, Ariz.

March 8, 1944



MEMORANDUM

To: J. S. Coupal
From: Elgin B. Holt
Subject: 81 Mine, Castle Dome Dist., Yuma County.

I am herewith inclosing my report on the 81 MINE, located in the Castle Dome District, Yuma County.

Kindly mail a copy of this report to: Mrs. Dona Williams, 2579 University Avenue, San Diego, Calif.

The owners of this property are trying to make a deal with clients, and I have been asked if it would be possible for them to get a Zero Quota and at least an "A" premium on lead values from the Quota Committee, WFB.

Here are the facts: Owners of the 81 Mine did some development work on the mine during 1942, since which time the mine has been idle. They did not apply for a zero quota.

In case others should now take over this mine, would it be possible for them to get a zero quota on the lead?

Please write me your opinion on this point.

Elgin B. Holt

mailed 3-10-44

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

ME-24

Date December 2, 1942

1. Mine -81-
2. Mining District & County Castle Dome Mining District
Yuma County
3. Former name
4. Location 38 miles N. on Yuma-
Quartzsite Road then turn
E. 12 miles to mine.
5. Owner Mrs. Donna Williams
6. Address (Owner) 2579 University Avenue
San Diego, California
7. Operator
8. Address (Operator)
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Lead (silver)
14. Men Employed
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type
18. Operations: Present None.
19. Operations Planned Try to lease or sell.
20. Number Claims, Title, etc. 5 claims located in 1941, July and August. Name of
J. H. Whitman. Purchased December 1, 1941 by Mrs. Williams.
21. Description: Topography & Geography Toothhills of Castle Dome Mountains. Desert
vegetation.
22. Mine Workings: Amt. & Condition 3 tunnels 80 ft. (lower) 60 ft. (50 ft. above) and
30 ft. (50 ft. higher) on N.W. side of Mountain. On S.E. side shaft 40 ft. deep
and open cut 40 ft. long 8 ft. deep on ore. Also numerous other shafts-shallow
and with drifts. All on various ledges.

(over)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

ME-24

Date 12/2/42
 Mine - 81 -
 2. Location - 38 miles N on Yuma - Quartzsite Road then turn E - 12 miles to mine.
 Mining District & County Castle Dome Mining District Yuma County -
 Former name -
 Owner Mrs. Donna Williams
 6. Address (Owner) 2579 University Ave. San Diego, Cal.
 Operator
 8. Address (Operator)
 9A. President, Operating Co.
 President, Owning Co.
 14. Principal Minerals Lead (actm)
 Gen. Mgr.
 15. Production Rate
 Mine Supt.
 16. Mill: Type & Cap.
 Mill Supt.
 Men Employed
 17. Power: Amt. & Type
 Operations: Present - none -

Operations: Planned - try to lease or sell.

Number Claims, Title, etc. 5 claims - located in 1941, July & Aug.
 Name of J. H. Whitman. Purchased Dec. 1, 1941
 by Mrs. Williams -

Description: Topography & Geography Foot hills of same Castle Dome Mts - desert vegetation -

Mine Workings: Amt. & Condition 3 tunnels - 80 ft. - (low) - 60 ft. (50 ft. alone) and - 30 ft. (50 ft. higher) - on NW side of mountain - On S.E. side - shaft 40 ft. deep - and open cut - 40 ft. long - 8 ft. deep in ore - Also ^{many} other shafts - shallow + with drifts - All on various ledges.

Geology & Mineralization

Ore is galena
MINE OWNERS REPORT
STATE OF ARIZONA
DEPARTMENT OF MINES

Ore: Positive & Probable, Ore Dumps, Tailings — *numerous dumps*

Dimensions and Value of Ore body *Run 12" in upper - to 3 feet*
of pure galena in lower levels

Mine, Mill Equipment & Flow-Sheet —

Road Conditions, Route — *1/2 miles beyond Holmes mine*

Water Supply — *none*

Brief History — *In early days ore packed to mine & shipped to England*

Special Problems, Reports Filed

Remarks *12/2 - In litigation - being settled -*

If property for sale: Price, terms and address to negotiate. *In lease - royalty basis*
Now under negotiations

32. Signature *Dorinda F. Williams*

Use additional sheets if necessary.