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Arizona Geological Survey
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The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 12/17/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CACTUS QUEEN

ALTERNATE NAMES:
IRON CLAD

MOHAVE COUNTY MILS NUMBER: 379A

LOCATION: TOWNSHIP 11 N RANGE 14 W SECTION 13 QUARTER SW
LATITUDE: N 34DEG 17MIN 36SEC LONGITUDE: W 113DEG 39MIN 54SEC
TOPO MAP NAME: ARTILLERY PEAK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER OXIDE
ALUMINUM PYROPHYLLITE
GOLD LODE
SPECIMENS WULFENITE

BIBLIOGRAPHY:
ADMMR CACTUS QUEEN FILE
ADMMR MOHAVE CARD FILE
ADMMR AZ INDUSTRIAL MINERALS RPT #2, P. 45
MALACH, R. "MOHAVE CTY MINES" P 56, 1977
ADMMR CACTUS QUEEN COLVO FILE
ADMMR "U" FILE CU 3 & CU 6

03/20/90

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CACTUS QUEEN MOHAVE COUNTY

NJN WR 4/3/87: Dick Morris (c) reported that Dave Shannon (c) has produced green fluorite crystals from the Lead Pill (file) and wulfenite from the Cactus Queen (file) Mohave County.

IRON CLAD
(Cactus Queen)

REFERENCES

MOHAVE COUNTY

AZ State Land Department Mineral Map

ADMR Mohave County Card File

Elevatorski, E. A., AZ Industrial Mineral Report #2, p. 45

Malach, R., Mohave County Mines, p. 56

MILS Sheet sequence number 0040150412

Name of Mine or Prospect:	Township	Range	Section	Property
Cactus Queen (Iron C[illegible])	11N	14W	13 cab	C

Principal Minerals:	1:250,000 Quad	7.5' - 15' Quad
Malachite	Prescott	Artillery Peak
Associated Minerals:	**District**	**Principal Product**
Pyrophyillite	Artillery Mtn.	Copper
Type of Operation:	**County / State**	**Type of Deposit**
Underground; Shaft	Mohave / Ar.	

Ownership or Controlling Interest:
Consult tax assessment records

Access: From Alamo Crossing, proceed northwest on unimproved road for 5 miles, turn left for 1 mile, then turn left again. Mine is .25 miles south and is shown on the topographic quadrangle. Vehicle access is difficult due to poor road conditions.

Structural Control or Geological Association:

"Reported pyrophyillite occurrence."[2]

"The Cactus Queen mine is developed by several adits and shafts on a fault zone bearing 142/40-60°NE. The shear zone is contained in Paleozoic(?) limestones which have been highly brecciated, altered, and mineralized along the strike of the fault. Primary mineralization was probably sulfides which are now oxidized to malachite, azurite, and chrysocolla. Moderate to large tonnage potential if gold and silver values are reported."[4]

Age of Mineralization:

Production History	Geochemical Analyses
Extensive underground workings, drifts and cross-cuts (no date)[3] Patented claim BK #101 MS #2579	Sample (1981) 81DTE730-3 - high grade dump material

References

1) Mallach (1977), p. 56.
2) Elevatorski (1978), p. 44.
3) ADMR files, Phoenix, Ar.
4) Exploration Research Associates Inc., Field reconnaissance, July 1981.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine IRON CLAD (CACTUS QUEEN) Date June 24, 1943

District Owens, Mohave County, Arizona Engineer Elgin B. Holt

Subject:

BRIEF REPORT

OWNERS: Long and McIver. Address not available at this time.

LESSEE: C. R. Breedon, Box 207, Route 3, Phoenix, Arizona, care of Robert J. Miller.

EXAMINATION: I visited this property on June 15, 1943, in company with Mr. J. E. Rodgers, who resides at Alamo. It is located in the Owens Mining District one mile westerly from Rawhide, and is reached from Wenden over a county maintained dirt road, via Alamo Crossing on the Williams River. Distance from Wenden to property is about 36 miles. As I had no data concerning this property, and as I was only able to reach the 100-foot level through a cross-cut tunnel, below which level the ladders in shaft had been removed, this report is merely a very brief and incomplete description of the property.

MINE WORKINGS: Property was developed by owners years ago, so Rodgers informed me, by means of a shaft around 300 feet deep, and by considerable drifting and cross-cutting, but main ore shoot is said to have been lost by faulting in the lower levels of the mine. Also, Rodgers was of the opinion that the Iron Clad mine now has about 25,000 tons of ore developed averaging about 4% copper. There are now about two car loads of ore piled on dump, estimated to run from 4 to 5% copper. I was also told that Breedon shipped, during June of 1942, one car load of ore, assaying about 4% copper.

All in all, it seems this property has more than usual merit and undoubtedly considerable low grade ore could be shipped from it, in the event the Alamo bridge and access roads leading thereto could be constructed.

This property is a marginal copper mine, as is the case with all the other copper mines and prospects in this area. Hence, before these mines, including the mine in question, could be worked at a profit additional premiums would have to be obtained for copper. Country rock at Iron Clad consists of limestone, and ore occurs in huge replacement deposits and chimneys. Character of ore is oxidized material: malachite, chrysocolla, mixed with chalcocite.

/s/ Elgin B. Holt
Field Engineer

May 25, 1943

MEMORANDUM

Copper
Alamo District

TO: Elgin B. Holt

FROM: J. S. Coupal

C. R. Breedon, Box 207, Route 3, Phoenix, care of Robert J. Miller, has a lease on the Iron Clad Mine, formerly known as the Cactus Queen, located 5½ miles from Alamo and adjoining the Rawhide Camp where Mr. McCullough usually stays.

This is on a lease from Long and McIvar. He claims there is a 140 foot shaft with a 60 foot drift in ore to the bottom of shaft showing 10 feet in width. Also a 100 foot drift on the 80 foot level all in ore.

Breedon may be on the property operating, but I would suggest that you try to get further information in the field.

My samples

361

3'	4.70	14.10
4.8	4.25	20.40
4.5	7.26	32.67
5	3.93	19.65
1.5	3.17	4.76
4	2.86	11.44
22.8	4.52	103.02
$\frac{22.8}{6} = 3.8$		

McIver

2.30
4.00
5.65
6.55
4.25
4.70

$\frac{27.45}{6} = 4.58$

100

$\frac{4 \times 95 \times 3.8}{12} = 1444$ Tons

1700 tons

80
16,00

4 Shipments

4.825	4.29	=	20.70
1.272	11.20	=	14.25
6.351	5.20	=	33.03
5.93	9.40	=	55.74
1.094	11.20	=	12.25
6.123	4.8	=	29.39
0.916	10.8	=	9.89
0.851	23.4	=	19.91
27.36	7.13		195.16

page 1 of 1
"front"

relative $x = 1$

$y = 1.5$

$$25 \overline{)60} \quad 2\,4$$
$$\underline{50}$$
$$100$$

1

$$\left(\frac{1}{60} + \frac{1.5}{60}\right) = t$$

$$\frac{2.5}{60} = x$$

page 1 of 1

"back"

Iron Clad Mine –
Ammo Mining District
5¼ miles W of S 1 claims
4 pat. claims
Lease & Bond ☆
C. R. Breedon
PO Box 207 Rt. 3
Phoenix
owners King & McDraw –
Complete report by
J.M. Colvocoresses.

Make File

5-17-43

No. 383 Ma

Phoenix, Arizona,
Sept. 23, 1943.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001

815 North First Street

P. O. Box 1148

This Certifies That samples submitted for assay by Mr. Wm. B. Maitland. contain as follows per ton of 2000 lbs. Avoir.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE % COPPER	REMARKS
LONG									
43				Trace				3.93	
44				.02		$.70		7.26	
45				Trace				4.25	
46				.01		$.35		4.70	
47				Trace				3.17	
48				Trace				2.86	

Charges $ 9.00

Assayer ARIZONA ASSAY OFFICE

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine IRON CLAD (CACTUS QUEEN)+ Date June 24, 1943

District Owens, Mohave Co., Ariz. Engineer Elgin B. Holt

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Sec 8-13

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Elgin B. Holt

Elgin B. Holt,
Field Engineer.

END

CACTUS QUEEN.

Williams River District, Mohave Co., Arizona

LOCATION: 52 miles N. W. of Congress Junction, 10 miles north of Swansea; S.E. of Cleopatra Mine. 162 unpatented claims. 3 patented.

OWNER: Cactus Queen Copper Co. H. E. Barbee, Gen. Mgr. Congress Junction, Arizona.

DATE VISITED: October 21, 1918, by J. L. White.

Country rock; schist partly capped with limestone. Schist contains porphyry and diorite.

The property consists of 165 claims in a rectangular group, about 3½ miles long.

Beginning in the south end of the property, several deposits of carbonates in lime have been uncovered. Sample No. 1 Copper 6.26%, Insol. 69.8%, CaO 7%, was taken at the largest showings, which appears to be a surface deposit rather than an outcrop. Near the center of the group there are several outcrops of carbonates in schist, all in the form of narrow seams. 500 feet of drifting and crosscutting has been done here on a heavy iron outcrop, In one place some copper wasuncovered. Sample No. 2, Cu. 1.22%.

A second outcrop of iron in the side of a wash was explored by a short tunnel. Sample No. 3 is a grab from the best of the dump. (Cu. 326)

Near the south end of the property there are two patented claims, the Iron Clad group, which has a very goodlooking outcrop of black hematite, stained with copper. A tunnel was started to cut this iron, but missed it. However, a deposit of hematite was cut in the floor for about 80 feet. A winze sunk in it showed the iron to be about 100' thick with copper stain all thru it and some sulphides at the bottom of the winze. A drift 70' long from the bottom was all in hematite. Samples 4 to 7 inclusive were taken here.

No. 4 Cu. 44%)
No. 5 " 5.20%)
No. 6 " 1.50%) 46.8 Fe. 29.8 Ins. Trace Silver, Trace Gold.
No. 7 " .86%)
No. 9 " .94%)

Sample No. 5 had considerable sulphides. Sample No. 8 Cu.94% came from the winze at 50' depth. Samples 9 and 10 were taken near the collar of the winze in specular hematite and showed no copper to the eye. Sample No. 9 .50% Cu. Sample No. 10 .52%

A crosscut from the main tunnel cut the outcrop originally driven. Where cut the iron was four feet wide. Sample No. 11, cu..86%.

The extreme south end of the claims show a number of copper carbonate outcrops, upon which practically no work has been done.

There seems to be little or no value in the property outside of the Iron Clad Group, which appears to have a very large body of iron ore with some copper in it. Samples, however, do not show any commercial ore.

CACTUS QUEEN

DISTRICT: WILLIAMS RIVER. About 50 miles west of Congress Junction and on north side Bill Williams River, and at an elevation of 1800 feet; or 600 feet higher than the river and 6 miles distant.

OWNERS: Cactus Queen Copper Co., W. H. Borders of Congress Junction, Treasurer.

DATE VISITED: September 11, 1919.

NOTES: 126 Claims

Geology:

A basal series of granite gneiss and schist accompanied by considerable sericitization, capped by limestone. These intruded by basic rocks which were later altered to amphibolites and heavily pyritized with low grade pyrite. The entire mass is cut by later intrusives and copper ores occur as replacements in the amphibolite and sediments.

With these ores the primary material was probably specularite containing a low grade cupriferous pyrite at some points of better grade than others, and although the specularite may occur primarily it is quite likely that considerable of it is secondary. Necular masses of low grade pyrite occur in the red hematite which hematite is probably secondary from an original pyrite. The probability of finding regular bodies of commercial ore in such deposits is small, altho one would expect irregular and spotty zones of high grade ore that would probably withstand mining and treatment costs.

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Development consists of a series of shallow tunnels and pits showing numerous narrow seams of hematite with contained copper, and from one tunnel a winze sunk to a depth of one hundred feet indicates a body of hematite showing some primary cupriferous pyrite from four to ten feet wide and fifty feet long, with ore still in the face. Sample No. 1 from this face, but it is not an average sample.

Conslusion: Location of property makes costs prohibitive, and probability of opening up any considerable tonnageis very doubtful.

Sample No. 1 104 oz. Au, Ag. oz. .14, Cu. 6.7% W.V.DeC.

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District Owens, Mohave Co., Ariz. Engineer Elgin B. Holt

Subject:

T 11N R 13 W
Sec 8-13

B R I E F R E P O R T

OWNERS: Long and McIver. Address not available at this time.

LESSEE: C. R. Breedon, Box 207, Route 3, Phoenix, Arizona, care of Robert J. Miller.

EXAMINATION: I visited this property on June 15, 1943, in company with Mr. J. E. Rodgers, who resides at Alamo. It is located in the Owens Mining District one mile westerly from Rawhide, and is reached from Wenden over a county maintained dirt road, via Alamo Crossing on the Williams River. Distance from Wenden to property is about 36 miles. As I had no data concerning this property, and as I was only able to reach the 100-foot level through a cross-cut tunnel, below which level the ladders in shaft had been removed, this report is merely a very brief and incomplete description of the property.

MINE WORKINGS: Property was developed by owners years ago, so Rodgers informed me, by means of a shaft around 300 feet deep, and by considerable drifting and cross-cutting. But main ore shoot is said to have been lost by faulting in the lower levels of the mine. Also, Rodgers was of the opinion that the Ironclad mine now has about 25,000 tons of ore developed averaging about 4% copper. There are now about two car loads of ore piled on dump, estimated to run from 4 to 5% copper. I was also told that Breedon shipped, during June of 1942, one car load of ore, assaying about 4% copper.

All in all, it seems this property has more than usual merit and undoubtedly considerable low grade ore could be shipped from it, in the event the Alamo bridge and access roads leading thereto could be constructed.

This property is a marginal copper mine, as is the case with all the other copper mines and prospects in this area. Hence, before these mines, including the mine in question, could be worked at a profit additional premiums would have to be obtained for copper. Country rock at Ironclad consists of limestone; and ore occurs in huge replacement deposits and chimneys. Character of ore is oxidized material: malachite, chrysocolla, mixed with chalcocite.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

END

383 Ma

Phoenix, Arizona,

Sept.23,1943.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

Certifies *That samples submitted for assay by* Mr.Wm.B.Maitland. *contain as follows per ton of 2000 lbs. Avoir.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE % COPPER	REMARKS
LONG									
43				Trace				3.93	
44				.02		$.70		7.26	
45				Trace				4.25	
46				.01		$.35		4.70	
47				Trace				3.17	
48				Trace				2.86	

ges $ 9.00

Assayer ARIZONA ASSAY OFFICE

My samples

361

3'	4.70	14.10
4.8	4.25	20.40
4.5	7.26	32.67
5	3.93	19.65
1.5	3.17	4.76
4	2.86	11.44
$\frac{22.8}{6} = 3.8$	4.52	103.02

100

$\frac{4}{\frac{45 \times 95 \times 3.8}{12}} = 1444$ Tons

1700 tons

McIver

2.30

4.00

5.65

6.55

4.25

4.70

$\frac{27.45}{6} = 4.58$

80

16.00

4 Shipments

4.825	4.29	=	20.70
1.272	11.20	=	14.25
6.351	5.20	=	33.03
5.93	9.40	=	55.74
1.094	11.20	=	12.25
6.123	4.8	=	29.39
0.916	10.8	=	9.89
0.851	23.4	=	19.91
27.36	7.13		195.16

velocity $x = 1$

$y = 1.5$

$$25 \overline{)60} \quad 2\,4$$
$$\underline{50}$$
$$100$$

1

$$\left(\frac{1}{60} + \frac{1.5}{60}\right) = t$$

$$\frac{2.5}{60} = t$$

May 25, 1943

MEMORANDUM

Copper
Alamo District

TO: Elgin B. Holt

FROM: J. S. Coupal

C. R. Breedon, Box 207, Route 3, Phoenix, care of Robert J. Miller, has a lease on the Iron Clad Mine, formerly known as the Cactus Queen, located 5½ miles from Alamo and adjoining the Rawhide Camp where Mr. McCullough usually stays.

This is on a lease from Long and McIvar. He claims there is a 140 foot shaft with a 60 foot drift in ore to the bottom of shaft showing 10 feet in width. Also a 100 foot drift on the 80 foot level all in ore.

Breedon may be on the property operating, but I would suggest that you try to get further information in the field.

Iron Clad Mine –
Ammo Mining District
5¼ miles W + S of Adams
4 pat. claims
Lease & Bond to
C. R. Breedon
PO Box 207 Rt. 3
Phoenix
mrs. King & McGraw –
Complete report by
J.M. Lawrence.

Make File

5-17-43

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine IRON CLAD (CACTUS QUEEN) Date June 24, 1943

District Owens, Mohave County, Arizona Engineer Elgin B. Holt

Subject:

BRIEF REPORT

OWNERS: Long and McIver. Address not available at this time.

LESSEE: C. R. Breedon, Box 207, Route 3, Phoenix, Arizona, care of Robert J. Miller.

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/s/ Elgin B. Nolt
Field Engineer