CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Reconstruction Finance Corporation Arizona Records

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

RECONSTRUCTION FINANCE CORPORATION

MINING DIVISION

REPORT OF SUPERVISING ENGINEER

Docket No. ND-5439
Date Authorization for Examination
Received . . . . . Phoenix Application
Date of Examination, inclusive . April 13, 1943
Date of Report . . . . . April 29, 1943

1. NAME AND ADDRESS OF APPLICANT

Name:	James T. Owens & V. S. Eyer
Address:	P. O. Box 1431
City and State:	Miami, Arizona
Correspondent:	Same

2. CHARACTER OF PROJECT

To develop a copper prospect by means of a shaft.

3. LOCATION OF MINE

"Blue Eagle Mine" Santa Rosa Mt. Mining District.
Township, range, section: T 11 S, R 5 E, G.& S.R.B. & M.
County and State, Pima County, Arizona.
Name and distance, by road, to nearest railway station.
Mine is thirty-six (36) miles South of Casa Grande, a town on the Southern Pacific Railroad.
Condition and seasonable accessibility of road, mine to Railway:
The first thirty (30) miles of road from the town of Casa Grande is a well graded dirt road, accessible at all times of the year, but the last six (6) miles of road is merely a wagon track that would be impassable during wet weather.

4. APPLICANT

I met only one of the applicants, Mr. James T. Owens, an elderly mining-man, without any technical education. He has apparently been engaged in small mining operations and prospecting for many years and appears capable of directing a small mining operation, such as this one.

5. LOAN REQUESTED

The original application calls for a loan of $10,000.00, but after inspecting the property and discussing the matter thoroughly with Mr. Owens, the applicant agreed with me that $5,000.00 would be sufficient to develop this property. All of the lower workings are not now accessible.

6. DESCRIPTION OF PROJECT

It is my understanding that the applicants own the six (6) unpatented mining claims and the property is free of all debt. However, the map shows that these claims are located within the Papago Indian Reservation and I do not know whether the original location of these claims would be valid on the Reservation.

The claims are developed by two 40' shafts connected by a drift at the bottom. On the surface, along the outcrop of the veins, there are numerous small open cuts and pits. A sketch of these two shafts, showing the location of the samples taken, is attached to this Report. It is probable that the main shaft extended to a greater depth than now accessible and the floor of the drift, between shafts, is covered with broken rock so it is not known whether this area has been stoped.

The main vein found in the shafts and the one upon which the applicant intends to work, strikes N 43 E and dips 60° to the Southeast. The country rock seems to be a coarse-grained grano-diorite such as would be found near the center of an eroded batholith. The vein consists of a well-developed fault fissure, containing crushed country rock with some later quartz. The ore minerals consist of secondary malachite and minor chrysocolla with no sulfides visible. The copper minerals occur as crusts and seam fillings in joints and fissures and are not actually a constitutuent of the quartz. I have inspected a number of copper prospects in this area and they all seem the same as this and the district has never produced a commercial copper mine, although it contains dozens of prospects. I do not believe the geology of this district is favorable for a copper mine of any consequence.

Since my highest assay (No. 2A) shows 8.55% copper across 1.5' and my lowest assay (No. 3A) ran 2.71% copper across 3' and the average of the four (4) assays taken was 4.00% copper across 2.1', I do not believe that this mine will produce copper ore at a profit, as the location of the property is very isolated, the roads are in poor shape, there is no water closer than six (6) miles from the mine and the summers are extremely hot in this region.

7. ECONOMIC CONSIDERATIONS

4% copper ore (gold and silver a trace) is worth:-

Smelter Payment -(Hayden Plant)

4% Cu = 80 lbs. - 8 lb = 72 lbs x 95% x $0.0905/lb = $6.19/to

Bonus Payment

4% Cu = 80 lbs. x 97% x $0.05/lb. = 3.88

Total value of ore . . . . . .$ 10.07/to

Charges

Smelter rate	$3.50
Trucking 36 Mi. . .	3.00
R.R.Fgt.-CasaGrande-Hayden	1.32

(Total value of ore . . . . $10.07/ton)

Estimated mining cost	$3.50
Total charges	11.32
Net loss per ton	$0.25

From the above, it is obvious that the ore sampled, which incidentally was the best ore in the shafts, is not commercial. It was impossible to take any more samples in these workings, as they are partly caved and the vein has been mostly stoped.

Scattered over the surface of the claims are a number of minor copper veins partly exposed by trenches and pits. The applicant does not intend to work any of these other veins as they are narrower and not so well mineralized.

8. PROPOSED DEVELOPMENT

The applicants intend to do the following work:

Sink main shaft (or clean out) for 50' @ $20.00/ft., ...	$1,000.00
Drift 25' each way from bottom of shaft 50' @ $12/ft., . .	600.00
Equipment - compressor, jack-hammer, hose, steel, bits, etc., ...	1,000.00
Miscellaneous supplies.	400.00
2 small cabins.	600.00
Insurance deposit	250.00
Pick-up truck	400.00
Reserve for contingencies	750.00
Total loan requested	$5,000.00

Applicant states he already knows where he can buy the above used equipment necessary for this project.

Applicant intends to emply the following men on one shift per day:-

1 foreman (J. T. Owens)	$200.00 per month
1 miner	8.00 " day
2 Indian laborers @	4.50 " " each

COMMENTS OF SUPERVISING ENGINEER

While there is undoubtedly some copper ore on these claims, I can not recommend a loan for the following reasons:

1. The ore is too low-grade to pay expense at the present prices of copper, labor, materials, etc.
2. The geology does not appear favorable for a large copper deposit.
3. Operating conditions such as inaccessibility,

climate, water supply, living conditions, etc., are going to make operating costs high.

4. The workings are partly inaccessible and there is a possibility that the exposed ore shoot has bottomed out under the muck in the lower levels.

5. The applicant owns no equipment and at the present time is employing no miners.

6. I believe this project is too small to be of value to the War Effort.

WM. B. MAITLAND
Supervising Engineer

Report of Supervising Engineer

Docket No. ND-5439

Date authorization for Examination
Reed - Phoenix application

Date of Examination inclusive Apr 13, 1943

Date of Report April 29, 1943

1. Name & Address of Applicant

Name James T. Owens & V. S. Eyer

Address P.O. Box 1431

City & State - Miami, Ariz

Correspondent James T. Owens.

SE
11S

2. Character of Project

To develope by means of a shaft a copper prospect

3 Location of Mine - Blue Eagle Mine, Santa Rosa Mt. Mining District

Township, range, section - T 11S, R 5E G & S R B & M

County & State - Pima Co, Arizona

Name and distance by road nearest railway station -

The mine is 36 miles south of
Casa Grande a town on the Southern
Pacific Railroad

(1)

Condition & seasonal accessibility of road, mine to railway - The first 30 miles of road from the town of Casa Grande is a well graded dirt road accessible at all times of the year but the last 6 miles of road is merely a wagon track that would be impassible

during wet weather

4. Applicant

I met only one of the applicants Mr. James T. Owens an elderly mining man without any technical education. He has apparently been engaged in small mining operations and prospecting for many years and appears capable of directing a small mining operation such as this.

5 Loan Requested

The original application calls for a loan of $10,000 but after inspecting the property and discussing the matter thoroughly with Mr Owens the applicant he agreed with me that ~~the~~ $5000 would be sufficient to develop this property as all of the lower workings are not now accessible

6. Description of Project

It is my understanding that the applicants own the six unpatented mining claims and the property is free of all debt. However the map shows that these claims are located within the Papago Indian Reservation and I do not know whether the original location of these claims would be valid on the Reservation.

(2)

The claims are developed by two 40 foot shafts connected by a drift at the bottom. ~~of this shaft~~. On the surface along the outcrop of the veins there are numerous small open cuts and pits: a sketch of these two shafts showing

the location of the samples taken is attached to this report. It is probable that the main shaft extended to a greater depth than now accessible and the floor of the drift between shafts is covered with broken rock so it is not known whether this area has been stoped

The main vein found in the shafts and the one upon which the applicant intends to work strikes N 43 E and dips 60° to the south east. The country rock seems to be a coarse grained granodiorite such as would be found near the center of an eroded batholith. The vein consists of a well developed fault fissure containing crushed country rock with some later quartz. The ore minerals consists of secondary malachite & chrysocolla with no sulfides visible. The copper minerals occur as crusts and seam fillings in joints and fissures and are not actually a constituent of the quartz. I have inspected a number of copper prospects in this area and they all seem the same as this and the district has never produced a commercial copper mine although it contains dozens of prospects. I do not believe the geology of this district is favorable for a copper mine of any consequence.

(3)

minor perhaps

2.1
3 6.5

Since writing my highest assay (No 2A) shows 8.55% copper across 1.5 feet and my lowest assay (No 3A) ran 2.71% copper across 3 feet and the average of the 4 assays taken was 4.00 % copper across 2.1 feet I do not believe that this mine will produce copper ore at a profit as the location

of the property is very isolated, the roads are in poor shape, there is ~~no~~ water closer than 6 miles from the mine, and the summers are extremely hot in this region.

(1) Economic Considerations

4% Copper ore (gold + silver a trace) is worth:-

Smelter Payment (Hayden Plant)

4% Cu = 80 lbs - 8 lbs = 72 lbs x 95% x $0.0905/lb = $6.19/ton

Bonus Payment

4% Cu = 80 lbs x 97% x $0.05/lb = 3.88

Total value of ore $10.07/ton

Charges

Smelter rate	$3.50
Trucking 36 miles	3.00
R.R. Fort Casa Grande-Hayden	1.32
Estimated mining cost	3.50
Total charges	11.32
Net loss per ton	$0.25

(4) From the above it is obvious that the ore sampled, which incidentally was the best ore in the shafts, is not commercial. It was impossible to take any more samples in these workings as they are partly caved and the vein ~~was not~~ has been mostly ~~partly~~ stoped

Scattered over the surface of the claims are a number of minor ~~quartz~~ copper veins partly exposed by trenches and pits. The applicant does not intend to work any of these other veins as they are ~~worthless~~ narrower and not so well mineralized

Proposed Development

The applicant intends to do the following work

Sink main shaft (or clean out) for 50' @ $20/ft	$1000.00
Drift 25' each way from bottom of shaft 50' @ $12/ft	600.00
Equipment - compressor, jackhamer, hose, steel, bits, etc.,	1000.00
Misc. supplies	400.00
2 small cabins	600.00
clearance deposit	250.00
Pickup truck	400.00
Reserve for contingencies	750.00
Total loan requested	$5000.00

applicant states he already knows where he can buy the above used equipment necessary for this project.

applicant intends to employ the following men on one shift per day:-

1 foreman (J. J. Owens)	$200/month
1 miner	$8/day
2 Indian laborers @	$4.50/day each

(3)

Comments of Supervising Engineer:

While there is undoubtedly some copper ore on these claims I cannot recommend a loan for the following reasons:-

1. The ore is too low grade to pay expenses at the present price of copper, labor, materials, etc.

2. The geology does not appear favorable for a large copper deposit.

3. Operating conditions such as inaccessibility, climate, water supply, living conditions etc are going to make operating costs high

4. The workings are partly inaccessible and there is a possibility that the exposed ore shoot has bottomed out under the muck in the lower levels.

5. The applicant owns no equipment and at the present time is employing no miners.

6. I believe this project is too small to be of value to the War Effort

Wm R Mottled
Sup Eng

[Letter of Transmittal. Tully]

Enclosed please find my report on the above captioned Docket together with original application & supporting data.

No 1A	2.0	2.75	5.50
2A	1.5	8.55	12.83
3A	3.0	2.71	8.13
4A	2.1	3.79	7.96
	8.6		34.42

2.1 ^ 4.80 %

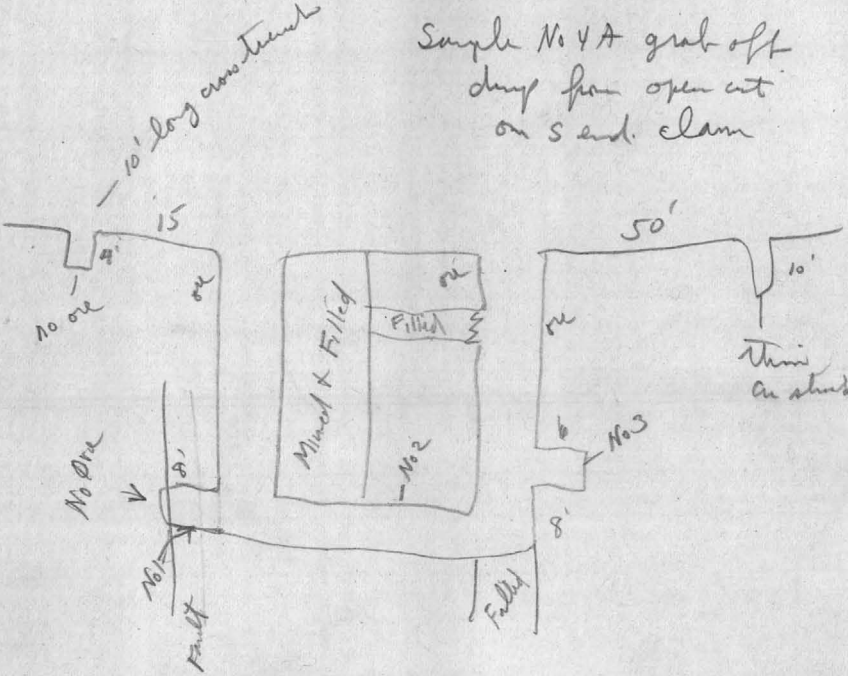
Owens Copper Mine Apr 13, 1943

Sample No 1A - 2' in drift 40' down shaft & 6' South of S air shaft. dk granodiorite fissure, malachite stain no sulfides. Floor of drift full of muck
Vein runs N 43 E & dips to E 60°

Sample No 2A - 1.5' in back of drift 1/2 way between shafts

Sample No 3A 3' in face. poor mineralization

Sample No 4A grab off dump from open cut on S end claim



$$\begin{array}{r} 11\ 775 \\ 2\ 6 \\ \hline 9\ 175 \end{array}$$

Smelter 4% = 80 lbs − 8 lb = 72 lbs × 95% × $0.0905 = $6.19

Bonus 80 lbs × 97% × $0.05 = 3.85

Total $10.07

Smelter charges	$3.50
Trucking	3.00
R R Frt	1.32
Mining cost estimated	3.50
Total charges	11.32
Net loss / ton	$0.25

Tuesday Arrived at 11:30 AM
Left Phoenix 9 AM
Left Tucson 4 PM
Arrived Tucson 7 PM

Owens Cr

Sink or clean shaft for 50' @ $20/ft		$1000
Drift 25' each way. 50' @ $12/ft		600
Equipment		1000
Supplies forge, tools etc		400
2 small cabins		600
		$3600
Insurance dep		250
Pickup truck		400
		4250
Reserve for contingencies		750
Loan.		$5000

Can buy Compressor, engine, 2 jackhammers, hose, steel, bits, air tugger $1000.00

1 shift

1 foreman Owen $200/mo.
1 miner $8/day
2 indians $4.50/day

Ship to Hayden

Frt Casa Grande to Hayden	$1.32/ton
Trucks 36 miles to Casa Grande	3.00/ton
Smelting charge	$3.50
	$7.32
Mining cost	$3.50
	10.32

mine is 6.3 miles E of Kearney