



CONTACT INFORMATION

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PRINTED: 07/03/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: GEM PROPERTY

ALTERNATE NAMES:

GEM SHAFT
LECORA COPPER CO
CORDOVA PROPERTY

GILA COUNTY MILS NUMBER: 538B

LOCATION: TOWNSHIP 1 N RANGE 15 E SECTION 13 QUARTER SE
LATITUDE: N 33DEG 25MIN 30SEC LONGITUDE: W 110DEG 46MIN 40SEC
TOPO MAP NAME: GLOBE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER
GOLD
SILVER
ZINC
MANGANESE

BIBLIOGRAPHY:

ADMMR CARD FILE
WEED W H MINES HANDBOOK VOL XIV 1920 P203&212
ADMMR GEM ~~MINE~~ FILE *property file*
PETERSON N P GEOL & ORE DEPTS GLOBE-MIAMI
DIST USGS PP 342 1962 P 104

(R)
HERON, James (Senator), Box 127
Globe, Arizona

1-19-43

See GEM MINE

Re - Field Engineer's Report

See GEM MINE - Re "C" loan application 2-14-43

See GLOBE-TRANSIT - Re Field Engineer's Report 3-31-43

See H file - Re identification of samples 9-29-43

See GLOBE-TRANSIT - re gas application 3-13-45

See GLOBE-TRANSIT - re gas application 4-28-45

GEM MINE

Pb, Zn, Mn

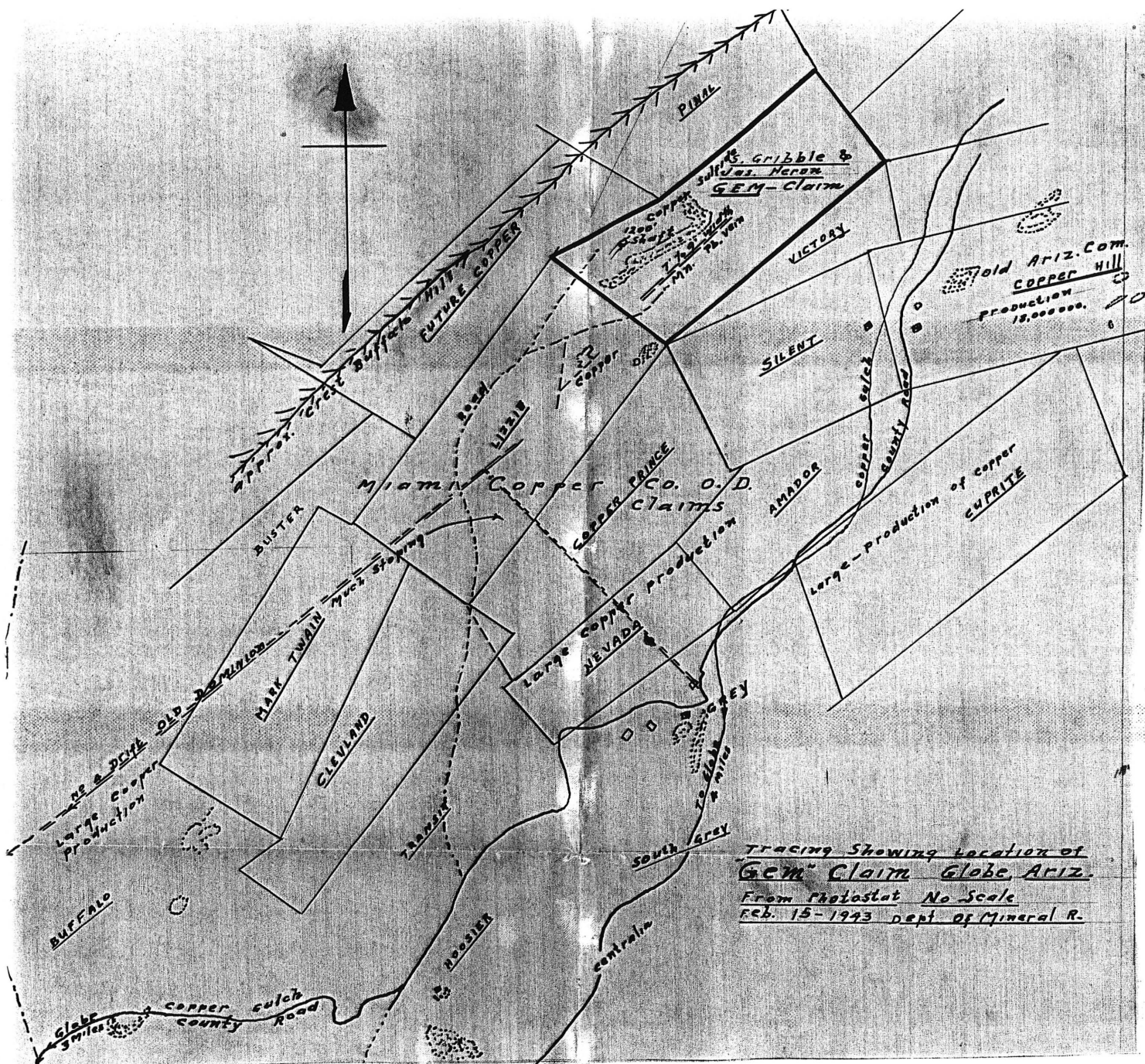
Gila

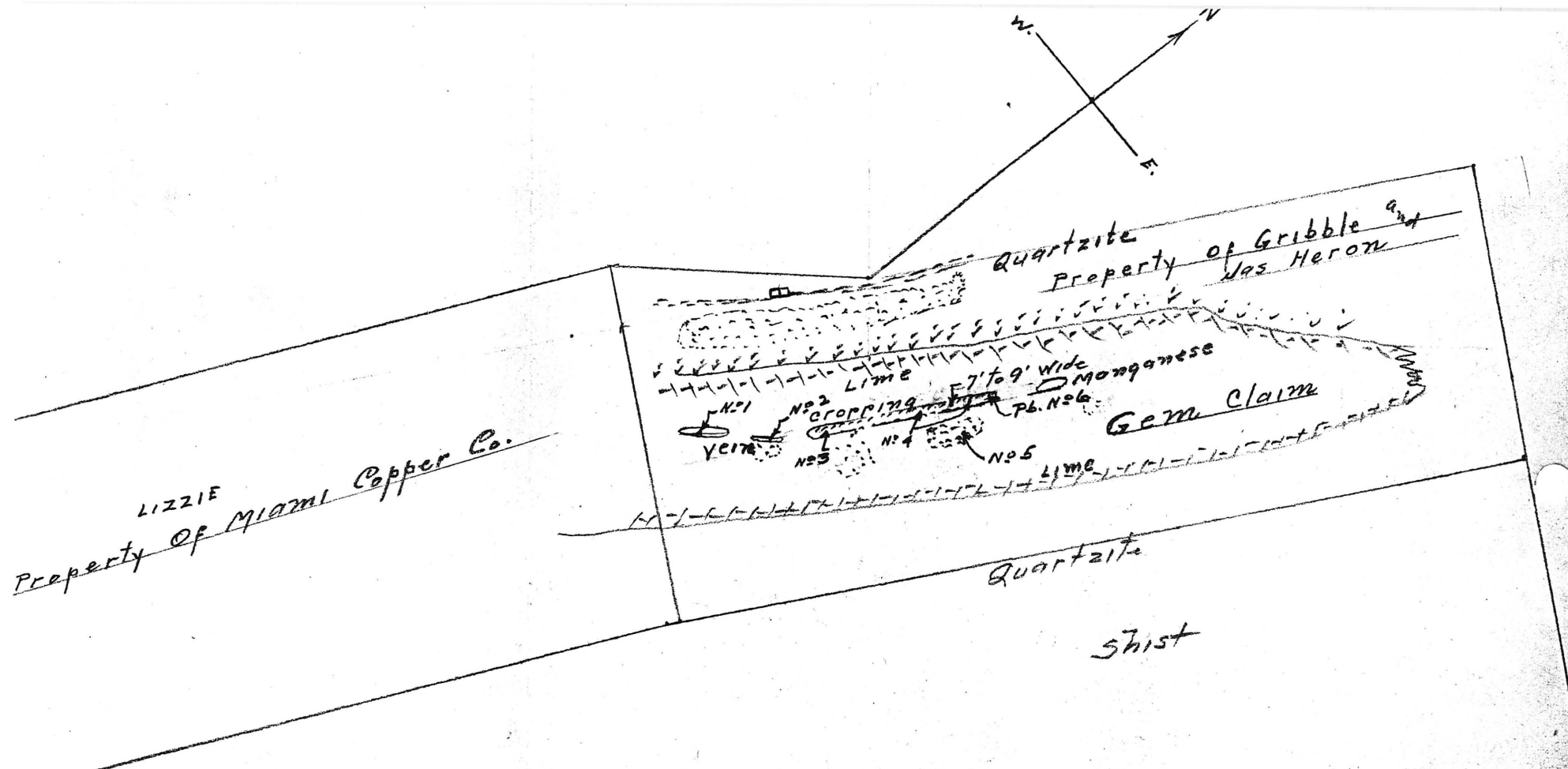
4 - 4

T 1 N, R 15 E

J. R. Heron, Box 127, Globe

'43





DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
413 HOME BUILDERS BUILDING
128 N. 1ST AVENUE
PHOENIX, ARIZONA

Sample List Feb. 22 1943

Nos	Weight	Width	Location
1	34.27	3 1/2'	near center of 50' cut
2	26.67	3'	" center " 10' "
3	27.41	4'	" S. end of 100' cut
4	22.94	3 1/2'	" middle & N. end 100' cut
5	23.90		10 Ton DUMP of 100' cut
6	42.81 Pb.	1' along West Wall	N. end 100' "

Notes of Dept. Of Mineral Resources
Globe, Arizona.

Scale 1" to 250' Approximately

GEM MINE

GILA COUNTY

USGS P.P. 342 p. 104

BOARD OF GOVERNORS:
CHARLES F. WILLIS, PHOENIX
CHAIRMAN
DR. N. H. MORRISON, PHOENIX
VICE-CHAIRMAN
SHELTON G. DOWELL, DOUGLAS
L. V. ROOT, KINGMAN
LOYDE C. EDMONSON, GLOBE
W. J. GRAHAM, SECRETARY

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
413 HOME BUILDERS BLDG.
PHOENIX, ARIZONA



J. S. COUPAL, PHOENIX
DIRECTOR
W. C. BROADGATE, PHOENIX
EARL F. HASTINGS, PHOENIX
ASSISTANT DIRECTORS
W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTORS
FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON

Globe, Arizona.
January 15th, 1943

REPLY TO

Department Of Mineral Resources
413 Home Builders Bldg.
Attention Mr Hastings,
Phoenix, Arizona.

Gentlemen;

On request of Messers Sidney Gribble and Jas. Heron, I made a breif examination of their mine and report as follows:

Name & Location; The one patented claim called the Gem is situated on Copper Hill easterly from the main workings of the Old Diminion about one mile.

A claim called the Lizzie (one of the Old Dominion group) is contiguous to the Gem on the west end.

Roads; A maintained county road passes by the southern foot of the high hill on which is situated the Gem mine, and from a point near the old Grey shaft, a mine road to the Gem winds up the hill to the Gem dumps.

This stub road requires a small amount of repair, in order that trucking of the ores may proceed.

Mineral Occurrence; A major contact starting at the Old Dominion strikes easterly, the formation on the north is quartzite, and on the south of the fault limestone, (termed locally Mescal lime).

Mineralization has taken place along the contact and in chambers and lenzes in the lime, this is true of the main old Dominion ore bodies, at least in the vicinity of the Gem.

Extending from near the west end of the Gem claim a distance of nearly 800' a vein or series of lenzes, about 300' south of the main contact, but closely parralleing the general course of the contact, is clearly in view.

Six old shallow workings made many years ago have exposed manganese ores in all these openings. Part of this vein filling consits of lead and zinc ores.

Widths of 3' to over 6' are seen in the croppings of the manganese and lead zinc, and there are good evidences that some shipments of lead-zinc have at some past time, been made from these old cuts.

Condition Of Workings; Due to considerable errosion from off the hill slope, which extends for several hundred feet northerly and

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
413 HOME BUILDERS BLDG.
PHOENIX, ARIZONA



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W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTORS
FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON

2

REPLY TO

steeply uphill above the lead-zinc-manganese vein, the surface workings are filled with earth and rock, blinding the floor of these cuts. However certain pillars composing part of the vein exposed, shows strong indications, that these cuts evidently extending to several feet in depth, were made on ore of about the grade and content, as the following samples assayed.

Assays; International Smelting & Ref. Co.

Dec. 9th, 1942 #1	Manganese	18.7 %
" 9th, 1942 #2	"	24.8 %
" 9th, 1942 #3	"	29.9 %
" 9th, 1942 #4	Lead-zinc	26.3 % Pb. and 12.7% Zn.

The samples were taken at random from exposed ores within the aforementioned cuts and exposed croppings.

To clean out these old workings and blast down the walls and cut ends where needed for safety and to prepare this property for active stoping of the ores; it is necessary to expend from \$4,000. to \$5,000. in this work.

The above expenditure to cover the labor and portable air compressor, drill and all materials involved in this rehabilitation.

As it would not be necessary to extend this mucking and repair work below a depth of 30' to 40', a hand windlas would serve to hoist the muck.

If all the manganese ores now scattered on the dumps and within the muck in the cuts, was gathered up, not far from a carlot would be obtained.

There also is 8 to 10 tons of lead -zinc ores in two piles ,remnants of some mining carried on here 30 or 40 years ago.

Old Workings ; A shaft said to be 1200' deep with drifting and other developments made on a large low grade sulfide of iron and low copper content mineralization, occuring along the main contact, some 300' northerly from the manganese- lead-zinc vein.

Partly contiguous to the east side line of the Gem, is located the Arizona Commercial Mine, which has a past record of several millions of dollars.

There are reasonable conditions from both geological and mineralization stand point to justify the prosecution of mining within the Gem ground and on the vein or lenzes above described.

Yours very truly. *T. Macfarlane*

Exhibit A (4)

Globe, Arizona,

January 22, 1943

Dear Sir:

I have followed the mining and leasing business since 1917. Shipped over 200,000 tons of copper ores from the Globe Copper Hill mining district to the International Smelter at Miami.

Also shipped around 1500 tons of silver lead ores to the El Paso Smelter, 140 tons lead zinc ores to the Ozark Smelting and Mining to Coffeyville, Kansas. Up to this time, my mining activities have been successful hoping it will continue to be,

Sincerely yours,

Sidney Gribble

copy

DEPARTMENT OF MINERAL RESOURCES,
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine GEM MINE

Date January 15, 1943

District Copper Hill Globe
Gila County, Arizona

Engineer A. Macfarlane

Subject:

Name & Location: The one patented claim called the Gem is situated on Copper Hill easterly from the main workings of the Old Dominion about one mile.

A claim called the Lizzie (one of the Old Dominion Group) is contiguous to the Gem on the west end.

Roads: A maintained county road passes by the southern foot of the high hill on which is situated the Gem mine, and from a point near the old Grey shaft, a mine road to the Gem winds up the hill to the Gem dumps.

This stub road requires a small amount of repair in order that trucking of the ores may proceed.

Mineral occurrence: A major contact starting at the Old Dominion strikes easterly, the formation on the north is quartzite, and on the south of the fault, limestone, (termed locally Mescal lime).

Mineralization has taken place along the contact and in chambers and lenzes in the lime, this is true of the main Old Dominion ore bodies, at least in the vicinity of the Gem.

Extending from near the west end of the Gem claim a distance of nearly 800' a vein or series of lenzes, about 300' south of the main contact, but closely paralleling the general course of the contact, is clearly in view.

Six old shallow workings made many years ago have exposed manganese ores in all these openings. Part of this vein filling consists of lead and zinc ores.

Widths of 3' to over 6' are seen in the croppings of the manganese and lead zinc, and there are good evidences that some shipments of lead-zinc have at some past time, been made from these old cuts.

The lead-zinc ores being a minor part of the vein filling, occurs mostly in a band following along the foot-wall. On mining the wider manganese ores, the lead-zinc can be stoped, seperatedly and as a car lot is accumulated will be shipped under the proper schedule.

The largest or main production now indicated will be manganese and by mucking out the old workings a considerable tonnage of marketable grade manganese can be sorted out of this muck.

A study of manganese properties situated within one to two miles north easterly from the "Gem": five of these mines of rather recent rehabilitation are now producing in all about 1,000 tons per month. About 20 miners (and these men beyond the years acceptable to the large mines) are making this production.

2/8/43

The equipment used in this work is all used and second hand machinery. That is true of the timbers and lumber also being utilized.

The "Gem" mine should be made ready to join the group of producing manganese mines within ninety or one hundred days, providing the old workings are made ready for ore stoping, also there should be installed a gas hoist and one or two drill compressor plants, immediately following the rehabilitation work, in order that mining equipment needed in ore production is not dealyed.

This equipment can all be obtained in the Globe area, as there are several idle plants at various places within the county.

Due to the proximity of the Gem ground to some of the old stopes of the Arizona Commercial, there are possibilities that copper bodies may be found towards the southern side of the claim. The same metamorphosed lime, along the irregular contact fractures, being the dominant conditions pertinent to the ore deposition are present.

The manganese belts extending north easterly from the Gem appear as iron manganese caps, which have enriched along the contact fractures, by solution deposition, however the mines of this belt have now obtained depths of nearly 100 feet and are following manganese of better grade than the croppings generally have exposed.

The car-load shipments from these mines range in grade from 20% to 40% Mn. No attempt at sorting or jigging is made. I look for increased production from these manganese properties.

Condition of Workings: Due to considerable erroision from off the hill slope, which extends for several hundred feet northerly and steeply uphill above the lead-zinc-manganese vein, the surface workings ~~fx~~ are filled with earth and rock, blinding the floor of these cuts. However certain pillars composing part of the vein exposed shows strong indications that these cuts evidently extending to several feet in depth, were made on ore of about the grade and content as the following samples assayed.

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The above expenditure to cover the labor and all materials involved in this rehabilitation.

2/8/43

As it would not be necessary to extend this mucking and repair work below a depth of 30' to 40', a hand windlass would serve to hoist the muck, and on actual mining being started, air drilling equipment would be required.

If all the manganese ores now scattered on the dumps and within the muck in the cuts, was gathered up, not far from a carlot would be obtained.

There also is 8 to 10 tons of lead-zinc ores in two piles, remnants of some mining carried on here 30 to 40 years ago.

Old Workings: A shaft said to be 1200' deep with drifting and other developments made on a large low grade sulfide of iron and low copper content mineralization, occurring along the main contact, some 300' northerly from the manganese-lead-zinc vein.

Partly contiguous to the east side line of the Gem, is located the Arizona Commercial Mine, which has a past record of several millions of dollars in copper production.

There are reasonable conditions from both geological and mineralization stand point to justify the prosecution of mining within the Gem ground and on the vein or lenses above described.

February 12, 1943

MEMORANDUM

gem *H.*
SUBJECT: The J. R. Heron
Loan

TO: Earl F. Hastings

FROM: J. S. Coupal

I talked with Jimmy Heron and told him the story. I will try and get Gribble in on Sunday. I have given him your telephone number and my suggestion is that, if agreeable, you meet Gribble at the office and get all of the information necessary from him to try and make a report which will pass muster.

gem

February 12, 1943

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February 3, 1943

MEMORANDUM

TO: A. Macfarlane

FROM: J. S. Coupal

I am returning the sketch you made on the Gem Mine for Mr. Heron. Unfortunately, the copy of the application for a preliminary development loan was lost but we have the original here and we are preparing new ones.

The sketch you made was also lost but we have the original sketch on hand. In looking over this sketch I find that you have certain notations by letter A, B, C, and D but that the assay certificate attached is numbered 1, 2, 3, and 4. Are these the same and if they are I think it would be advisable to stick by the numbering of the samples so as to conform to the assay certificate submitted and also to the numbering used on your field engineer's report on this property. This might be confusing to someone in Washington looking the application over.

If possible, I would like to have you fix up the sketch which we will submit with the application and if you can do so use a carbon and made two sets so that we may attach a sketch to each one of the duplicate application sets.

Please bring this in with you on Friday. I hope you will have it completed so that we can fix up the balance of the application. Mr. Heron will call and we will try and have this submitted on Friday, February 5.

P. S. If you can arrange to do so, please be at the office at nine o'clock on Friday morning so that we may have a half an hour with Mr. Heron before our regular meeting.

January 19, 1943

Honorable James Heron
Arizona State Senate
Capitol Building
Phoenix, Arizona

Dear Senator:

I am enclosing a report on the Gem
Mine which was made by Mr. Andrew Macfarlane.

With best wishes, I am

Very truly yours,

J. S. Coupal
Director

JSC:LP
Enc.

March 9, 1943

MEMORANDUM

TO: Andrew Macfarlane

FROM: Earl F. Hastings

This will acknowledge and thank you for your report on the Gem property near Globe. You may be interested in the assays, so here they are: No. 1, Manganese, 34.27%; No. 2, 26.67%; No. 3, 27.41%; No. 4, 22.94%; No. 5, 4.6 ozs. silver, 23.90% manganese, and 4.20% lead; No. 6, 1 oz. silver, and 42.8% lead. A composite of samples, 1 to 5 inclusive, assayed 4.56% zinc.

Inasmuch as the lead is not marketable at the present time, not being a sulphide, the zinc content of the manganese is, of course, too high to be acceptable at the Metals Reserve Company stockpile.

We, therefore, had to reverse our recommendation of this loan and have so advised the RFC and Mr. Heron.

Mar. 4, 1943.

Mar. 4, 1943.

Mar. 4, 1943.

815 North First Street

P. O. Box 1148

This Certifies That samples submitted for assay by **Dep't of Mineral Resources**, contain as follows per ton of 2000 lbs. Avoir.

[illegible]

Assayer ARIZONA ASSAY OFFICE

672

No. 162 De

CHAS. A. DIEHL

Phoenix, Arizona,

Feb. 27, 1947.

ARIZONA ASSAY OFFICE

Phone 3-4001

815 North First Street

P. O. Box 1148

This Certifies That samples submitted for assay by **Dep't of Mineral Resources**, contain as follows per ton of 2000 lbs. Avoir.

MARKS Gem Mine	SILVER		VALUE (Oz.)	GOLD		VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE			REMARKS
	Ounces	Tenths		Ounces	Handths			%	MANGANESE	LEAD	
1								54.27			
2								26.87			
3								27.41			
4								22.94			
5	4.6		\$3.26					23.90		4.20	
6	1.0		\$.71							42.81	

Charges \$ 13.00

Assayer **ARIZONA ASSAY OFFICE**

Chas. A. Diehl

March 6, 1943

MEMORANDUM

gem
SUBJECT: J. R. Heron
Docket Phx. C-134

TO: W. B. Gohring, RFC.

FROM: Earl F. Hastings
Dept. of Mineral Resources

Attached is additional data on this application.

You will note that samples cut and described by our Field Engineer indicate a low-grade manganese ore which assays 4.56% zinc. This product is not marketable.

We have further investigated the lead smelting facilities and find that this type of lead ore is difficult, if not impossible, to market.

In the light of this information, indicating neither product to be mined is marketable, we wish to reverse our recommendation relative to this application.

Earl F. Hastings
Projects Engineer

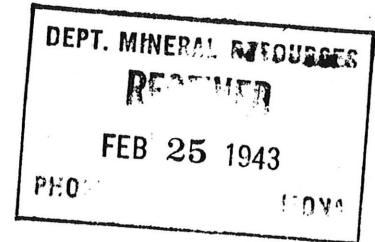
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine GEM
District. Globe, Arizona.
Subject: Mine Development Loan

Date February 24th, 1943

Engineer A. Macfarlane

Department Of Mineral Resources,
Phoenix, Arizona.



Gentlemen;

Herewith two sketches of the Gribble and Heron property the one in pencil shows where I took the samples on Feb. 22nd, and the tracing shows the relation of the Gem claim to the Old Dominion claims, the Arizona Commercial Etc. all now the property of the Miami Copper Co.

I note by Mr Coupals letter of the 20th, that it will not be necessary for this office to enlarge on the report, that you will do that there.

Where neither lateral development or coverage is attained by a prospect, it takes some confidence in this case that a vein or lense several hundred feet in length and from 7 to 9' between walls, situated in a proven mining belt, gives the Gem a probable future outcome.

Am now leaving for Safford to report on the Merrill property.

Yours very truly.

A. Macfarlane
A. Macfarlane
Box 506 Globe, Arizona.

February 18, 1943

MEMORANDUM

SUBJECTS: Re-examinations
Gem Mine
Horseshoe Mine

TO: A. Macfarlane

FROM: J. S. Coupal

I am enclosing the analyses on the preliminary development loans on the Gem Mine owned by J. R. Heron, Box 127, Globe, and the Horseshoe Mine owned by J. D. Merrill, Box 409, Safford. Both of these loans seem to warrant the granting of a loan, but the data is so insufficient and so incomplete that as the information now stands both would be rejected. I am therefore requesting you to, at your earliest opportunity, re-examine both properties and along the lines I will indicate.

GEM MINE: Please contact Mr. Gribble and arrange to go to the property and take samples on the ore showing, both in the open cut where they plan to clean out and also on ore exposures in the cuts on either side of the open pit where ore is exposed. In taking these samples, please indicate the width of manganese ore and the width of lead ore, note positions on a revised sketch map, describe the ore occurrences at each point where you take a sample, and indicate the size of sample cut. Have these samples assayed and bill the Department for same.

We do feel as though this property justifies this work even if it takes two days to do the job. Please do a thorough job so that we may submit all possible data which would justify a loan.

HORSESHOE MINE: Due to the fact that this is a low-alumina, high-silica ore, please sample the various pits and open cuts at from 20 to 25 foot intervals over a distance which is indicated as some 500 feet.

As the data stands at present, this could not be recommended for a loan, but if sufficient data is prepared, we believe there is a good chance to obtain the loan on this particular property. I believe Mr. Merrill should be willing to pay for the assays with no charge, of course, for our sampling.

The same data on this sampling should be submitted as requested on the Gem; namely, the width and occurrences where each sample is taken and a general description of the outcrop so as to justify the estimate of ore occurring at the 500 foot length.

I suggest that you do the Gem work first and advise Mr. Merrill by post card when you will arrive in Safford to do the work on the Horseshoe. There are no meetings scheduled for you for next week and I believe this is the most important job that I know of at the time, so please give it your attention and get your reports in as early as possible.

RECONSTRUCTION FINANCE CORPORATION

WASHINGTON

325 Heard Building
Phoenix, Arizona
February 17, 1943

Heron *H*

Mr. Earl F. Hastings, Asst. Director
& Projects Engineer
Arizona Department of Mineral Resources
413 Home Builders Building
Phoenix, Arizona

Re: J. R. HERON
Phoenix No. C-134

Dear Earl:

We are returning herewith the above-captioned docket with the thought that perhaps more engineering data might be obtained. In its present form I do not feel that I can recommend this loan.

According to our understanding, Coffeyville is not accepting a mixed lead-zinc ore at the present time.

As a rule surface samples of manganese assay fully as well, or better than samples cut at depth. I suggest that all of the indicated pits along the strike of this vein be assayed for manganese. Certainly they can be cleaned out in a few hours so as to expose the ore. Other samples may be taken in the open-cut proper where work was planned to start.

All manganese samples should be assayed for zinc since if the manganese contains more than 2% zinc it is not acceptable.

Very truly yours,

Geo. A. Tweedy
GEORGE A. TWEEDY
Supervising Engineer

Enclosures
Docket - Phoenix No. C-134
Letter of E. D. Farley



February 19, 1943

Mr. J. R. Heron
State Capitol Building
Phoenix, Arizona

Dear James:

We have submitted our analysis of your mine loan application to the RFC office and find it is still insufficient to justify granting a loan. I have instructed Mr. Macfarlane, our engineer in Globe, to contact Mr. Gribble and go to the mine and take a series of samples which will show exactly what ore exposures are now present and to have them assayed. I have asked him to completely describe each sample and each ore occurrence and plot them out in a new sketch.

With this information I believe we will have a chance to get an approval of your loan. It has been approved already by this office, but we have been confidentially advised that more information would be necessary before it could pass the RFC office; hence, this move to try and give all of the information needed.

I regret the delay but we plan to stay with this and get the job done and done right now no matter what happens.

With best wishes and kindest regards, I am

Very truly yours,

J. S. Coupal, Director

JSC:kk

EXHIBIT A

4. History, Management, Etc.

Mr. Sidney Gribble of Globe, Arizona, who is manager of the mining property herein considered, states as follows: that he has been engaged in mining and leasing of mines in the Globe Copper Hill Mining District since 1917; that he has shipped over 200,000 tons of copper ore from the Copper Hill Mining District to the International Smelter at Miami, Arizona; that he has shipped around 1500 tons of silver lead ores from the same district to the Smelter at El Paso, Texas; also shipped 120 tons of lead-zinc ores to the Ozark Smelting and Mining Co. at Coffeyville, Kansas; that he is an experienced mine operator as above stated, continuously a producer from this district.

5. Claim Under War Minerals Relief Act.

No claim of any nature has been filed under the War Minerals Relief Act effecting the property or the applicant.

6. Location.

Globe Copper Hill Mining District in Section 11, T. 1 N.
R. 15 E.

7. Mining Property.

The Gem patented mining claim, recorded in Book 5, Records of Mines, at page 407, Mineral Certificate #350, Survey #2304.

8. Operation.

- (a) No operations have been carried on to the present time.
- (b) Operations are not yet being carried on due to the fact that property has been recently acquired by the applicant, who is in need of the loan applied for in order to prosecute the work of re-habilitating the mine.

10. If Applicant is a Partnership, Supply the Following:

- (b) At present no written partnership agreement is made, but an oral working agreement of equal ownership and

responsibility in the premises is now in effect.

11. Taxes

- (a) No taxes on the property are delinquent at this time.
- (b) Approximately \$8.00 per year.

EXHIBIT B

A. Report and maps hereto attached.

B. The minerals to be produced are zinc, lead and manganese, also probably copper. The market for these metals as follows: copper, International Smelter at Miami, Arizona; lead ores: El Paso, Texas, El Paso Smelter; zinc-lead and zinc ores, Ozark Smelting and Mining Co. at Coffeyville, Kansas, or other Missouri valley plants.

C. The reports hereto attached state that the ore bodies are found in altered and inclined limestone formation, paralleling within a short distance a major contact between the limestone and quartzite, *or diabase*. This contact having a general ^{South} west to ^{North} east course. The mine is situated on the south slope of Buffalo Hill, ^{a shoulder of Copper Hill} approximately 300 feet below the crest of said hill, but the workings are accessible by road to the main county road, approximately 1200 feet southerly from the mining claim.

D. Existing Development

- (1) The attached maps explains the location and type of mineral deposits but due to the fact that the old workings are largely filled with rock detritus it is impossible to estimate any quantity or proper value of the mineral deposits.
- (2) Assay certificates hereto attached.
- (3) The mine will be developed by shafts ^{Tunnel} and drifts therefrom. The attached sketch indicates more or less the type of future development.
- (4) At present the equipment is limited to some hand mining tools, *with minor additions will take care of working needs until mine is cleaned & production initiated*

E. Proposed Development.

- (1) The initial development intended is the cleaning and timbering of all old workings on the ~~inclined~~ manganese vein and for this purpose this loan is requested.

- manganese ore*
- (2) It is estimated that a production of approximately ~~500~~ tons per week can be made from this vein of the property after it is placed in state of production, *and an occasional barrel of lead zinc should also be shipped*
- (3) The workings are dry - no pumping arrangements necessary.

F. Marketing of Product.

It is intended to mine and market the ores of the property to the present long existing smelters and also to the Manganese Stock Pile Authority situated at Deming, New Mexico. The smelter rates are generally and it is the present schedule of charges varying between \$3.00 and \$6.00 per ton for the copper and lead products. The manganese output conforms to governmental regulations and prices established. Zinc-lead combined ores marketable at Coffeyville, Kansas, or other Missouri Valley points are by schedule arranged between each individual mine and the smelting company purchasing their products.

G. Water Supply.

The only water required is for domestic and engine cooling purposes. This is obtained from the nearby Globe municipal pipe lines at no cost to the mine.

H. Power.

Power used is gasoline. Fuel is used in operation of air compressor and hoist, at least during the initial working of the property.

I. Cost.

- (1) It is estimated that the cost of producing the ~~lead~~, ~~silver~~ and lead-zinc and manganese ores of the property will vary between \$2.50 and \$6.00 per ton as an average mining cost.
- (2) No milling intended at this time.

EXHIBIT A

4. History and Present Status.

There is a shaft 1200 feet deep with drifts and other developments and on one drift on the 500 foot level runs out and tips the lead-zinc and manganese ledge, according to master mechanic who worked at the mine approximately 40 years ago. However, it is impossible to work from this shaft as it would have to be timbered. There are also several stoped and open cuts on manganese and lead-zinc ledges which have caved. These were worked many years ago.

Applicant's interest in the ownership of the property is an undivided one-half interest. Property was acquired by deed approximately two months ago.

The property is to be managed by my partner Mr. Sidney Gribble, who has been engaged in mining and leasing of mines in the Globe Copper Hill Mining District since 1917; that he has shipped over 200,000 tons of copper ore from the Copper Hill Mining District to the International Smelter at Miami, Arizona; that he has shipped around 1500 tons of silver lead ores from the same district to the Smelter at El Paso, Texas; also shipped 120 tons of lead-zinc ores to the Ozark Smelting and Mining Co. at Coffeyville, Kansas; that he is an experienced mine operator as above stated, continuously a producer from this district.

5. Location and Description of Mining Property:

- (a) Globe Copper Hill Mining District in Section 11, T. 1 N. R. 15 E. Two miles from railroad at Globe, Arizona.
- (b) The Gem patented Mining claim, recorded in Book 5, Records of Mines, at page 407, Mineral Certificate #350, Survey #2304.
- (c) No unpatented mining claims.
- (d) See map attached.
- (e) Old Dominion mine on the west has produced many million dollars of various types of ores and the Arizona Commercial which adjoins on the east has produced several million dollars in copper, silver and lead ores. Iron Cap Copper Co. is approximately one quarter of a mile north and has produced several million dollars in copper ores.

8. Financial Status:

Assets- Cash.....\$ 200.00
Material on hand..... 200.00
(Steel, shovel, picks, wheel barrows
windlass, etc.)

Fixed Assests-(land) Gem Patented
Mining Claim.....10,000.00
Ores..... 150.00

Liabilities- None.

EXHIBIT B

- A. Report and maps hereto attached.
- B. The reports hereto attached state that the ore bodies are found in altered and inclined limestone formation, parallelling within a short distance a major contact between the limestone and quartzite, or diabase. This contact having a general Southwest to Noreast course. The mine is situated on the south slope of Buffalo Hill, a shoulder of Copper Hill, approximately 300 feet below the crest of said hill, but the workings are accessible by road to the main county road, approximately 1200 feet southerly from the mining claim.
- C. Existing Development:
- (1) The attached maps explains the location and type of mineral deposits but due to the fact that the old workings are caved and largely filled with rock detritus it is impossible to estimate any quantity or proper value of the mineral deposits.
 - (2) Assay certificates hereto attached.
 - (3) The mine will be developed by shafts, tunnel and drifts therefrom. The attached sketch indicates more or less the type of future development.
 - (4) At present the equipment is limited to some hand mining tools, with minor additions will take care of working needs until mine is cleaned and production initiated.
- D. Proposed Preliminary Development of Existing Mine Workings:
- (1) Clean out old workings and retimber and make it accessible and the estimated cost for labor for cleaning out the old workings, \$2500, operating, etc. \$1000. Miners and preparation to start ore production, \$1500.
 - (2) The workings are dry. No pumping arrangements necessary.
 - (3) See map attached.
- E. Power:
- Power used is gasoline. Fuel is used in operation of air compressor and hoist, at least during the initial working of the property.

EXHIBIT A

4. History, Management, Etc.

Mr. Sidney Gribble of Globe, Arizona, who is manager of the mining property herein considered, states as follows: that he has been engaged in mining and leasing of mines in the Globe Copper Hill Mining District since 1917; that he has shipped over 200,000 tons of copper ore from the Copper Hill Mining District to the International Smelter at Miami, Arizona; that he has shipped around 1500 tons of silver lead ores from the same district to the Smelter at El Paso, Texas; also shipped 120 tons of lead-zinc ores to the Ozark Smelting and Mining Co. at Coffeyville, Kansas; that he is an experienced mine operator as above stated, continuously a producer from this district.

5. Claim Under War Minerals Relief Act.

No claim of any nature has been filed under the War Minerals Relief Act effecting the property or the applicant.

6. Location.

Globe Copper Hill Mining District in Section 11, T. 1 N.
R. 15 E.

7. Mining Property.

The Gem patented mining claim, recorded in Book 5, Records of Mines, at page 407, Mineral Certificate #350, Survey #2304.

8. Operation.

- (a) No operations have been carried on to the present time.
- (b) Operations are not yet being carried on due to the fact that property has been recently acquired by the applicant, who is in need of the loan applied for in order to prosecute the work of re-habilitating the mine.

10. If Applicant is a Partnership, Supply the Following:

- (b) At present no written partnership agreement is made, but an oral working agreement of equal ownership and

responsibility in the premises is now in effect.

11. Taxes

- (a) No taxes on the property are delinquent at this time.
- (b) Approximately \$8.00 per year.

EXHIBIT B

- A. Report and maps hereto attached.
- B. The minerals to be produced are zinc, lead and manganese, also probably copper. The market for these metals as follows: copper, International Smelter at Miami, Arizona; lead ores: El Paso, Texas, El Paso Smelter; zinc-lead and zinc ores, Ozark Smelting and Mining Co. at Coffeyville, Kansas, or other Missouri valley plants.
- C. The reports hereto attached state that the ore bodies are found in altered and inclined limestone formation, paralleling within a short distance a major contact between the limestone and quartzite, or diabase.

This contact having a general Southwest to Northeast course. The mine is situated on the south slope of Buffalo Hill, a shoulder of Copper Hill, approximately 300 feet below the crest of said hill, but the workings are accessible by road to the main county road, approximately 1200 feet southerly from the mining claim.

D. Existing Development

- (1) The attached maps explains the location and type of mineral deposits but due to the fact that the old workings are caved and largely filled with rock detritus it impossible to estimate any quantity or proper value of the mineral deposits.
- (2) Assay certificates hereto attached.
- (3) The mine will be developed by shafts, tunnel and drifts therefrom. The attached sketch indicates more or less the type of future development.
- (4) At present the equipment is limited to some hand mining tools, with minor additions will take care of working needs until mine is cleaned and production initiated.

E. Proposed Development.

- (1) The initial development intended is the cleaning and timbering of all old workings on the manganese vein and for this purpose this loan is requested.

- (2) It is estimated that a production of approximately 100 tons per week of manganese ores can be made from this vein of the property after it is placed in state of production, and an occasional car-load of lead-zinc should also be shipped.

- (3) The workings are dry-no pumping arrangements necessary.

F. Marketing of Product.

It is intended to mine and market the ores of the property to the present long existing smelters and also to the Manganese Stock Pile Authority situated at Deming, New Mexico. The smelter rates are generally and it is the present schedule of charges varying between \$3.00 and \$6.00 per ton for the copper and lead products. The manganese output conforms to governmental regulations and prices established. Zinc-lead combined ores marketable at Coffeyville, Kansas, or other Missouri Valley points are by schedule arranged between each individual mine and the smelting company purchasing their products.

G. Water Supply.

The only water required is for domestic and engine cooling purposes. This is obtained from the nearby Globe municipal pipe lines at no cost to the mine.

H. Power.

Power used is gasoline. Fuel is used in operation of air compressor and hoist, at least during the initial working of the property.

I. Cost.

- (1) It is estimated that the cost of producing the lead-zinc and manganese ores of the property will vary between \$2.50 and \$6.00 per ton as an average mining cost.
- (2) No milling intended at this time.

APPLICATION FOR A PRELIMINARY DEVELOPMENT LOAN

NOTE—Read carefully Circular No. 14, Revised, and this application form before starting to prepare application.

Application of

(NAME) J. R. Heron(ADDRESS) Box 127(CITY AND STATE) Globe, Arizona

For a Preliminary Development Loan under authority of Public Law 603 approved June 11, 1942.

The application should be prepared and executed in duplicate.

Date February 8, 1943Name of correspondent J. R. HeronAddress Box 127Location of mine: County Gila State Arizona Mineral or metal produced CopperJ. R. Heron (hereinafter called "applicant"),a partnership, hereby applies to RECONSTRUCTION FINANCE CORPORATION (hereinafter called
(Corporation, individual, partnership)"R. F. C."), for a loan of not more than \$ \$5000.00 to be evidenced by a note or notes satisfactory to R. F. C., payable only out of proceeds of operation of the mining property.

To induce R. F. C. to make such loan, applicant submits as part of this application the attached exhibits, A and B and such other exhibits and papers as are attached hereto, and warrants and represents the statements herein and therein to be true and complete.

Applicant represents that applicant is not, at the time of making this application, indebted to R. F. C. in any amount, and neither the applicant nor any other party on applicant's behalf has heretofore applied to R. F. C. for a loan, except as follows: no exceptions.

Applicant hereby authorizes all constituted Federal, State, municipal, and other authorities at all times and from time to time to permit representatives of R. F. C. to have full access to and to furnish R. F. C. with any and all information, records, reports, returns, and files pertaining to or filed by or on behalf of applicant.

Dated February 8, 1943, 194WITNESS: [Signature]WITNESS: [Signature]

(Sign below)

[Signature]

EXHIBIT A

1. NATURE OF BUSINESS: Describe briefly the type of operation being conducted or contemplated. **Re-habilitation of former mine workings on a lead-zinc, manganese vein**
2. LOAN: **\$5000.00**

- (a) Amount of loan applied for: **\$5000.00** (Not to exceed \$5,000 to any one applicant.)
- (b) Submit statement explaining manner in which loan will be advantageous to the national defense.

3. PURPOSES OF LOAN: Specific purposes for which applicant proposes to expend proceeds of loan applied for. (Detailed information should be given.)

Nature of Expenditure	Amount
Labor on cleaning former workings	\$2500.00
Operating supplies, timber, explosives, etc.	1000.00
Labor of required timberman and miner on mine preparation to start ore production.	1500.00

4. HISTORY AND PRESENT STATUS: This subject should be fully covered and should include the following information: A statement of previous development, operation and production of the mining property, giving dates; statement as to exact nature of applicant's interest in or ownership of the property, including date and circumstances under which acquired.

5. LOCATION AND DESCRIPTION OF MINING PROPERTY:

- (a) Mining district in which property is situated. If on surveyed ground, give section, township, and range. Give name and distance to railroad station.
- (b) Names and survey numbers of all patented claims, including map.
- (c) Names, dates of location, place and date of recording, book and page record of all unpatented locations, including sketch map.
- (d) Description of mineral acreage, including map, and recording data.
- (e) Names of any adjoining or neighboring productive properties.

6. IF APPLICANT IS A CORPORATION, SUPPLY THE FOLLOWING:

- (a) General Information

1. Principal office and place of business **not a corporation**

(Street and Number)

(City)

(State)

2. When organized.

3. Under what laws organized.

4. Names of States in which qualified to do business.

- (b) Names and Addresses of Officers:

Name and address

Official title (if officer is also director indicate by "D")

- (c) Articles, Bylaws, Etc.—Copies of Articles of Incorporation, bylaws, and certificates of authority to do business, with all amendments to date, certified and sworn to by applicant's Secretary, all to be attached hereto.

7. IF APPLICANT IS A PARTNERSHIP, SUPPLY THE FOLLOWING:

- (a) Names and Addresses of All Partners:

(Indicate if any partners are limited or special partners)

Address

J. R. Heron

Box 127, Globe, Arizona

Sidney Gribble

510 South Fourth Street, Globe, Arizona

- (b) Affidavits and Agreements—Copies of all partnership affidavits and agreements, certified and sworn to by the partner signing the application, all to be attached hereto. **At present no written partnership agreement is made, but an oral working agreement of equal ownership.**

8. FINANCIAL STATUS: Submit current financial statement, and state terms of notes payable, mortgage debts, etc., giving maturity dates, rate of interest, etc.; and describe any other liens.

EXHIBIT B

Technical Data

The data required by Exhibit B should be supplied in detail on separate sheets of paper attached at end of this Exhibit.
Data should be lettered and numbered to correspond with respective paragraphs below.

- A. **REPORTS:** Furnish any reports available that apply to this application, including results from any metallurgical investigations.
- B. **GEOLOGY AND TOPOGRAPHY:** Submit all available information and maps.
- C. **EXISTING DEVELOPMENT:**
 - 1. Furnish all possible information with regard to the ore body or mineral deposit. If maps and sections of the mine are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions must be shown. Give all available assays of samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value and width of each sample on maps submitted.
 - 2. Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
 - 3. State type of mine, whether tunnel or shaft, and show in detail the existing workings. State distance along vein between levels and to surface. Indicate condition of workings, noting on map caved areas and those areas which it is proposed to make accessible.
 - 4. List present equipment on property and describe condition.
- D. **PROPOSED PRELIMINARY DEVELOPMENT OF EXISTING MINE WORKINGS:**
 - 1. State clearly and in detail the proposed work such as unwatering, retimbering and making accessible such workings, together with estimated cost thereof, including purchase of tools and supplies.
 - 2. State whether workings are dry or wet; if latter estimated volume of water that has to be pumped, total gallons and gallons per minute to keep water down, and estimated cost of initial dewatering as well as cost to keep water down.
 - 3. Show on sketch map of existing workings the extent of ore which it is proposed to sample and assay when such workings are made accessible.
- E. **POWER:** State kind and source of power proposed to be used.

APPLICATION FOR A DEVELOPMENT LOAN

NOTE.—Read carefully Reconstruction Finance Corporation Circular No. 14 (revised) and this application form before starting to prepare application.

Application of

(NAME) J. R. Heron

(ADDRESS) Box 127

(CITY AND STATE) Globe, Arizona

For a Development Loan under authority of section 14, Public No. 417, Seventy-third Congress, as amended.

The application should be prepared and executed in duplicate; one counterpart should be accompanied by a complete set of exhibits, including maps, reports, and all other documents called for; the other should be accompanied by a set of exhibits complete except for supporting maps, assay reports, and other documents of which it is difficult to obtain more than one copy; each counterpart with exhibits should be fastened in a separate binder and sent to Reconstruction Finance Corporation, 811 Vermont Avenue NW., Washington, D. C.

Name and address of applicant should be stamped or typed on each sheet of application, and on all accompanying papers, for identification. If any space in any exhibit is not large enough to permit giving full information, such information should be typewritten on attached sheets of paper labeled, lettered, and numbered to correspond with the respective exhibit, section, and subsection.

Date January 27, 1943

Name of correspondent J. R. Heron

Address of correspondent Box 127

Location of mine: County Gila State Arizona Mineral or metal produced Copper, Zinc, Lead & Manganese

Does this application pertain to the production of strategic and critical minerals? Yes
(Yes or no)

J. R. Heron (hereinafter called "applicant"),

a partnership, hereby applies to RECONSTRUCTION FINANCE CORPORATION (hereinafter called
(Corporation, individual, partnership)

"R. F. C."), for a loan of not more than \$5000.00 to be evidenced by a note or notes satisfactory to R. F. C. and secured as required by R. F. C.

To induce R. F. C. to make such loan, applicant submits as part of this application the attached exhibits, A to D, inclusive, and such other exhibits and papers as are attached hereto, and warrants and represents the statements herein and therein to be true and complete.

Applicant represents that applicant is not, at the time of making this application, indebted to R. F. C. in any amount, and neither the applicant nor any other party on applicant's behalf has heretofore applied to R. F. C. for a loan, except as follows: no exceptions.

Applicant hereby authorizes all constituted Federal, State, municipal, and other authorities at all times and from time to time to permit representatives of R. F. C. to have full access to and to furnish R. F. C. with any and all information, records, reports, returns, and files pertaining to or filed by or on behalf of applicant.

Dated January 27, 1943

(Sign below)

WITNESS:

WITNESS:

EXHIBIT A
General Information

1. NATURE OF BUSINESS: Describe briefly the type of operation being conducted. Re-habilitation of former mine workings on a lead-zinc, manganese vein.
2. LOAN: \$5000.00
 - (a) Amount of loan applied for: \$5000.00
 - (b) Full statement of necessity for loan: to prepare the mine for production.
3. PURPOSES OF LOAN: Specific purposes for which applicant proposes to expend proceeds of loan applied for. (Detailed information should be given.)

Nature of Expenditure	Amount	Percent
Purchase of air drilling equipment as follows: portable air	\$	
Compressor, jack hammer and all attachments pertaining thereto	1500.00	30%
Labor on cleaning former workings	2500.00	50%
Operating supplies, timber, explosives, etc.	1000.00	20%
Labor of required timberman and miners on preparation to start ore production	1500.00	30%
	\$ 5,000.	

4. HISTORY, MANAGEMENT, ETC.: This subject should be fully covered and should include the following information: A brief statement of previous development and operation of the mining property; statement as to exact nature of applicant's interest in or ownership of the property, including date and circumstances under which acquired; if applicant or the mining property under consideration for the loan has been involved in receivership, reorganization proceedings, or bankruptcy, or if applicant has made an assignment for the benefit of, or effected a compromise with creditors, discuss fully; a full statement of the facts disclosing that applicant is engaged in the development of a mining property which comes within the purview of the Act, and all pertinent facts regarding the mining business of the applicant and the management thereof, including the manager's mining experience.
5. CLAIM UNDER WAR MINERALS RELIEF ACT: If a claim has been filed under the War Minerals Relief Act involving the property or the applicant, explain in detail, stating amount of claim filed and amount recovered, if any. If no such claim has been filed, so state.
6. LOCATION: Give State, county, and mining district in which property is situated. If on surveyed ground, give section, township, and range. Give name of and distance to railroad station.
7. MINING PROPERTY:
 - (a) Names and legal survey numbers of all patented claims or claims surveyed for patent. (Include claim map.)
 - (b) Names, dates of location, place and date of recording, book and page record of all unpatented locations.
 - (c) Description of acreage or placer ground, and recording data.
 - (d) Names of any adjoining or neighboring productive properties.
8. OPERATION:
 - (a) Are operations being carried on at present time? If so, describe operations including number of men employed.
 - (b) If operations are not now being carried on or have not been continuous, give dates of suspension and resumption of operations, reasons for such suspensions, and description of most recent operations.

(a) GENERAL INFORMATION:

- (b) NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, AND TEN LARGEST STOCKHOLDERS:

(c) CAPITAL STOCK ISSUES:

(d) ARTICLES, BYLAWS, ETC.—Copies of Articles of Incorporation, bylaws, and certificates of authority to do business, with all amendments to date, certified and sworn to by applicant's Secretary, all to be attached hereto as EXHIBIT "E".

(a) NAMES AND ADDRESSES OF ALL PARTNERS:

(b) AFFIDAVITS AND AGREEMENTS.—Copies of all partnership affidavits and agreements, certified and sworn to by the partner signing the application, all to be attached hereto as EXHIBIT "E".

(b) Levied or assessed each year for the past 3 years.

EXHIBIT B

Technical Data

The data required by Exhibit B should be supplied in detail on separate sheets of paper attached at end of this Exhibit.
Data should be lettered and numbered to correspond with respective paragraphs below.

- A. **REPORTS:** Furnish any reports available that apply to this application, including results from any metallurgical investigations.
- B. **METAL OR MINERAL:** State metal or mineral to be produced. Applicant must present evidence of definite markets for products other than gold and silver which will be produced during the life of the loan, with location and capacity of each market and sales prices.
- C. **GEOLOGY AND TOPOGRAPHY:** Submit all available information and maps.
- D. **EXISTING DEVELOPMENT:**
1. Furnish all possible information with regard to the ore body or mineral deposit. If maps and sections of the mine or placer are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions must be shown. Give the assays of all samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value, and width of each sample on maps submitted. For placer deposits give the values obtained from each shaft or drill hole and state how the values were determined. If the data is available, show the estimated yardage and value.
 2. Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
 3. State type of mine, whether tunnel or adit, shaft, open-cut, placer, drift, etc., and show in detail the amount of development work. State distance along vein between levels and to surface. Indicate condition of workings, noting necessary repairs, if any.
 4. List present equipment on property and describe condition.
- E. **PROPOSED DEVELOPMENT:**
1. State clearly and in detail the proposed work. Estimate the cost of producing and marketing the product.
 2. State recent daily, monthly, and annual production (if any) and estimated production if loan is granted.
 3. State whether workings are dry or wet; if latter, amount of water that has to be pumped, gallons per minute, to keep water down.
- F. **MARKETING OF PRODUCT:** Explain fully whether the product produced is milled on the property, shipped to custom mill or smelter, or shipped direct to the mint, or otherwise marketed. In any case, supply all cost data with regard to marketing.
- G. **WATER SUPPLY:** State whether water supply for all proposed operations is sufficient during all seasons of year. State amount in gallons per minute, miners' inches, or second-feet. If available, state the maximum, minimum, and average flow. Describe the source of the water supply, its dependability, water rights, etc.
- H. **POWER:** State kind and source of power proposed to be used in operating the property.
- I. **COST:** State past (if mine has been in operation) and estimated future:
1. Detailed mining cost per ton, or per cubic yard of product and per foot of development work.
 2. Detailed milling cost.

EXHIBIT C
Current Financial Statement

As of

February 1st, 1943

(It is desired that this should be not more than 30 days prior to date of application)

Assets		
CURRENT ASSETS:		
1. Cash		\$ 200.00
2. Notes receivable		None
3. Accounts receivable		None
4. Inventories, materials on hand, etc.	Steel, Shovels, Picks, Wheel Barrows, Windlass, etc.	200.00
TOTAL CURRENT ASSETS		\$ 400.00
FIXED AND OTHER ASSETS:		
5. Plant used in business	Lands. Gem Patented Mining Claim	10,000.00
	Buildings. None	None
	Ores.	150.00
6. Machinery		None
7. Equipment, furniture, fixtures, etc.		None
TOTAL ASSETS		10,550.00
Liabilities		
CURRENT LIABILITIES:		
8. Notes payable		None
9. Accounts payable		None
10. Other current liabilities		None
11. Liabilities accrued but not yet payable (interest, rent, taxes, wages, payments due on account of leases, options, or other contracts, etc.)		None
TOTAL CURRENT LIABILITIES		None
FIXED AND OTHER LIABILITIES:		
12. Mortgage debt, etc.		None
13. Contracts for lease, royalty, or purchase which constitute charges:		None
14. Other liabilities (describe)		None
TOTAL LIABILITIES		None
15. Contingent liabilities (describe)		None

INSTRUCTIONS.—In addition to the foregoing statement, attach a copy of latest balance sheet; also state terms of notes payable, mortgage debts, etc., giving maturity dates, rate of interest, etc.; and describe any other liens.

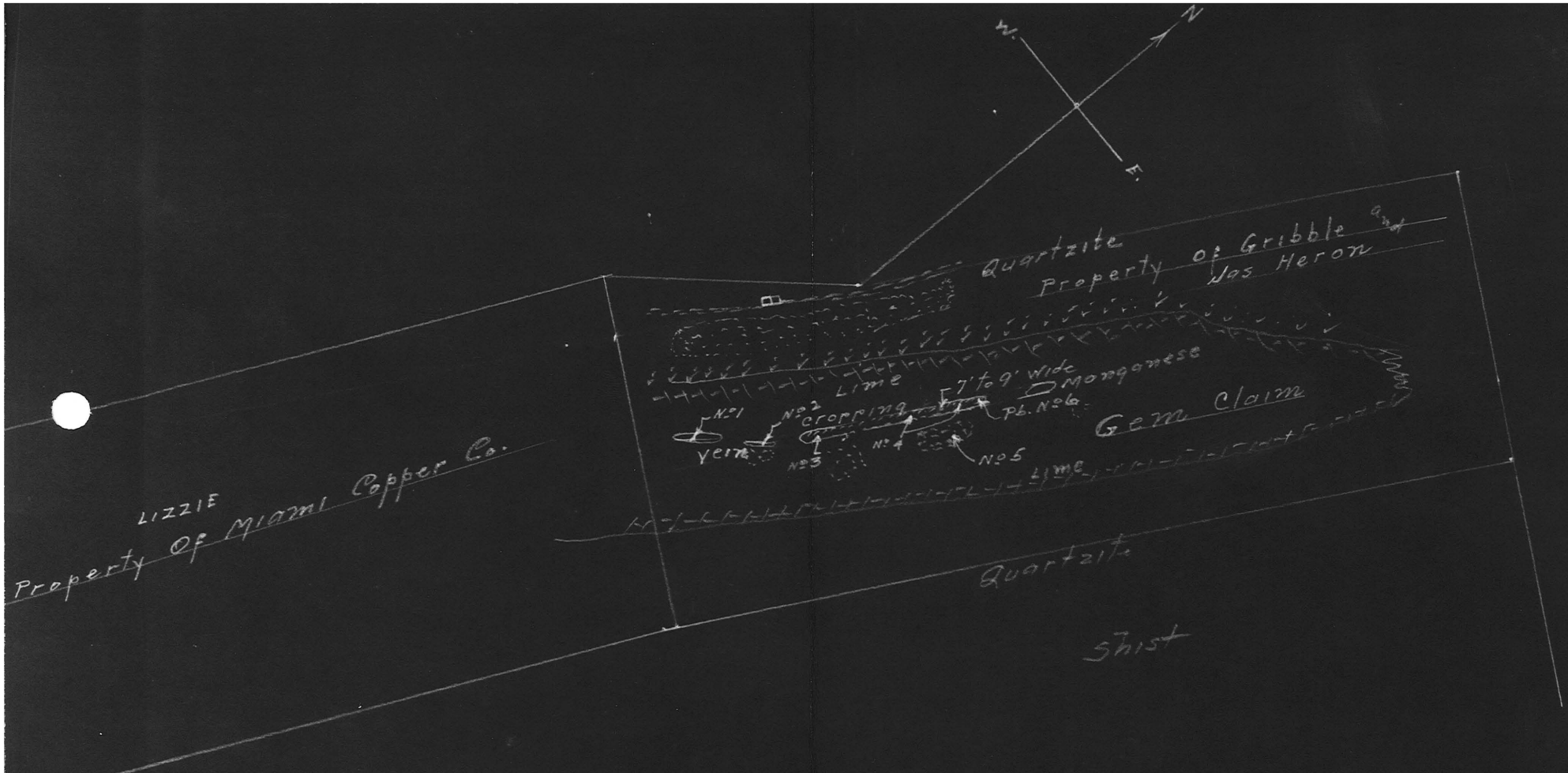
EXHIBIT D

Fees, Commissions, Etc.

(No fees or commissions shall be paid by applicant for the purpose of procuring a loan, but reasonable compensation may be paid for proper services actually and necessarily rendered to applicant. If an application is granted it is to be expected that prior to disbursement the Corporation will require that it be furnished with certificates and agreements from applicant and from persons retained to render services to applicant, in form satisfactory to the Corporation, that all compensation shall be subject to the approval of the Corporation.)

All fees, commissions, salaries, charges, compensation, and things of value paid or delivered, or agreed to be paid or delivered, or contemplated to be hereafter paid or delivered by or on behalf of applicant in connection with the application and/or any loan granted are as follows:

Name	Description of services	Amount paid	Amount agreed or contemplated to be paid
None		\$	\$



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
413 HOME BUILDERS BUILDING
128 N. 1st AVENUE
PHOENIX, ARIZONA

Sample List Feb. 22 1943

Nos	Sample	Width	Location
1	34.27	3 1/2'	Near Center of 50' cut
2	26.67	3'	center " 10' "
3	27.41	4'	" S. end of 100' cut
4	22.94	3 1/2'	" Middle " N. end 100' cut
5	23.90	10 Ton Dump	of 100' cut
6	42.81 Pb.	1' along West Wall	N. end 100' "

Notes of Dept. Of Mineral Resources
Globe, Arizona.

Scale 1" to 250' Approximately

