



## **CONTACT INFORMATION**

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: EMERSON

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 122D

LOCATION: TOWNSHIP 23 N RANGE 18 W SECTION 11 QTR. NW  
LATITUDE:N 35DEG 24MIN 01SEC LONGITUDE:W 114DEG 10MIN 42SEC  
TOPO MAP NAME: CHLORIDE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

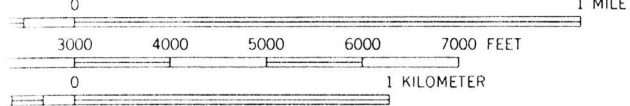
GOLD-(M) LODE-PRIMARY  
SILVER-(M) OXIDE-COPRODUCT  
COPPER-(M) SULFIDE-COPRODUCT  
LEAD-(M) OXIDE-BYPRODUCT  
ZINC-(M) OXIDE-BYPRODUCT  
IRON-(M) SULFIDE-BYPRODUCT

BIBLIOGRAPHY:

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SCHRADER, F.C., USGS 397, P. 72  
ADMR EMERSON MINE FILE  
WEED, W., MINES HANDBK, VOL. XIII, P. 367  
ADMR MOHAVE CUSTOM MILL PROJ. CARD FILE  
ADMMR HIDDEN TREASURE MINE FILE  
MALACH, ROMAN "CERBAT MTN COUNTRY", P. 29



(CERBAT)  
3154 I SW  
SCALE 1:24 000



R INTERVAL 40 FEET  
IS MEAN SEA LEVEL



QUADRANGLE LOCATION

ROAD CLASS  
Heavy-duty   
Medium-duty   
U. S. Route

1 NATIONAL MAP ACCURACY STANDARDS  
2 DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242  
3 C MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

chloride 7.5'

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

# WESTERN UNION

1201

SYMBOLS

- DL - Day Letter
- NT - Overnight Telegram
- LC - Deferred Cable
- NLT - Cable Night Letter
- Ship Radiogram

A. N. WILLIAMS  
PRESIDENT

NEWCOMB CARLTON  
CHAIRMAN OF THE BOARD

J. C. WILLEVER  
FIRST VICE-PRESIDENT

354 50 NL=KINGMANN ARIZ 11

TIME at point of origin: Time of receipt is STANDARD TIME at point of destination

W. C. BROADGATE=

1912 DEC 12 AM 12 41

HARRINGTON HOTEL WASHDC

MR GOHRING MAILED MY EMERSON PRELIMINARY LOAN APPLICATION TO WASHINGTON NOVEMBER TWENTY SIXTH I NOW CONTROL ADJOINING CLAIMS ON HIDDEN TREASURE VEIN WITH EXCELLENT ZINC SHOWINGS SO AM ESPECIALLY ANXIOUS FOR LOAN APPROVAL TO START OPERATIONS AND APPLY FOR B- LOAN COMBINING PROPERTIES YOUR HELP WILL BE GREATLY APPRECIATED REGARDE=

FRANK GRANNIS.

DEPT. MINERALS  
RECEIVED  
DEC 17 1942  
PHOENIX

*Emerson Mine*

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

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# WESTERN UNION (15)

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W96 8=KINGMAN ARIZ 14 1057A

W. C. BROADGATE=

GARRINGTON HOTEL=

DEPT. MINERALS  
RECEIVED  
DEC 17 1942  
PHOENIX A. LON

LOAN APPROVED SORRY IF YOU WERE INCONVENIENCED REGARDS=

FRANK H GRANNIS

CLASS OF SERVICE

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# WESTERN UNION (15)

1201

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- NLT=Cable Night Letter
- Ship Radiogram

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W96 8=KINGMAN ARIZ 14 1057A

W C BROADGATE=

GARRINGTON HOTEL=

DEPT. MINERAL RESOURCES  
RECEIVED  
DEC 17 1942  
PHOENIX, ARIZONA

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FRANK H GRANNIS

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CHAIRMAN OF THE BOARD

J. C. WILLEVER  
FIRST VICE-PRESIDENT

Time at point of origin. Time of receipt is STANDARD TIME at point of destination

W96 8=KINGMAN ARIZ 11

DEC 12 12 41

DEPT. MINERAL RESOURCES  
RECEIVED  
DEC 17 1942  
PHOENIX, ARIZONA

CLASS OF SERVICE

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- DL = Day Letter
- NT = Overnight Telegram
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W.C. BROADGATE=

12/12 DEC 12 AM 12 41

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FRANK GRANNIS.

DEPT. MINERAL RESOURCES  
RECEIVED  
DEC 17 1942  
PHOENIX

*Emerson Mine*

B.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

1000

NAME OF MINE: Emerson-Hidden Treasure

COUNTY: Mohave  
DISTRICT: Chloride  
METALS: Au, Ag, Pb, Zn

OPERATOR AND ADDRESS:

MINE STATUS

DATE:		DATE:	
5/1/44	Frank H. Grannis, Box 147 Chloride, Arizona	5/1/44	Developing
		12/44	Shipping
		8/45	Idle

EMERSON

Pb, Zn, Au, Ag

Mohave 8 - 7 T 23 N, R 18 W

Frank H. Grannis, Box 147, Chloride

'42

R/H

(C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient?

(D) Or would you prefer a loan plan similar to the arrangements during World War II?

How about a combination plan in two stages such as follows?

Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property.

Please discuss the above:

*The main I heard during this period is out of developed ore and would require a costly program to get it into production. However, it is my belief based on zinc ore can be developed in the district possibly thru development loans similar to those previously given.*

SUGGESTIONS:

*Also, a premium of possibly 5 cents for new production of lead-zinc would certainly help as an inducement. More premium might be paid after individual check up. And such premium should be for a period of 2 years at least to give time to get started etc.*

DATE

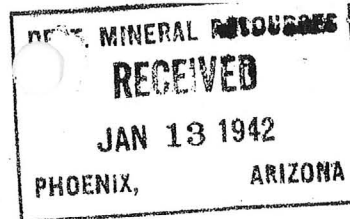
*August 20, 1950*

SIGNATURE

*Frank H. Brennan*  
Box 147  
Pahoa, Hawaii



January 12, 1943



MEMORANDUM

To: Earl F. Hastings  
From: Elgin B. Holt

EMERSON MINE

Referring to your memo of January 6th, I note you and Mr. Gohring have been very much perturbed re- the way Grannis has, supposedly, been handling funds borrowed from RFC in cleaning out the Emerson Tunnel.

I visited this tunnel project yesterday and went over the items you discussed in your letter in detail. As a result, I found nothing out of the way whatever. The trouble, if it may be called that, consisted of the fact that Grannis did not keep Mr. Gohring informed of what he was doing.

Attached hereto is a copy of a letter from Grannis to Gohring which explains most of the objectionable matters mentioned in your letter. Without going into great detail, I will attempt to explain the other items you mention.

It will be noted, per the said Grannis letter that only approximately \$800 of the first budgett withdrawal of \$2127.12 (?) had been expended, to December 31st, 1942, at the time, or about the time, when Grannis asked for the second withdrawal, or that is the withdrawal of the balance of the \$5,000. Grannis' reason for asking for the last withdrawal before he had spent the first is explained in his letter to Gohring; his main reason being that he wanted ample funds on hand at all times so he could purchase supplies when available, and also for the purpose of increasing the number of his crew.

As to overhead, he has no engineer employed. The first \$100 paid to Thurston was for mapping and engineering requirements in making the preliminary development loan application. The second \$150 for Thurston mentioned in the second withdrawal request covers engineering fee for work Thurston is doing with a view to combining the Emerson and the Hidden Treasure groups, in order to get ready to apply for a B loan. Per my advise, Grannis has deferred this last item to the time when and if he gets the B. loan through, as I told him it could not be charged to his present loan. As to attorney's fees, this is piece work, Grannis stating it is doubtful if this item will run over \$25.00 to date.

As to the mine foreman, to which you object, Grannis made a mistake in this item, as he should have put this man down, Mr. McDonald, as a "timberman" and not a foreman. McDonald is doing the timbering and working a full shift. So that leaves only one administrator, Grannis himself, who collets a salary as manager.

As to your question: "Will balance available be sufficient to reach objective?" I cannot answer that question with any degree of accuracy; but will discuss it in the following manner:

You will note by the sketch map attached hereto that to January 11th, tunnel was cleaned out and rehabilitated a total distance of 167 feet from portal. Work started at northwest side of Winze No. 1 and continued S. E. 115 feet to present heading. This work consisted in mucking out caved ground and timbering where necessary. This 115-foot section goes underneath an old caved stope where silver-gold oxidized ore was taken out years ago and milled; vein apparently being about 6 feet wide; but no sulphides showing as yet, as this area is only 50 feet below the surface.

The heading of the said tunnel, on the date of visit, was in heavy caved ground and regular square sets were being put in and advance was being made by putting in false sets and driving spiling. Progress to said date, since work started, has been at the rate of around 8 feet daily; but now, as ground is heavy, work is progressing at only 1.5 feet daily. Men employed in heading consists of one timberman and two workmen.

Condition of tunnel ahead unknown; but Thurston thinks tunnel will continue in bad shape at intervals, where stoping above has been done, for at least 185 feet, at which point Winze No. 2, coming down from an upper level, will be encountered. Beyond the said winze, per legend, no stoping above the tunnel level has been done, from said winze to the end of tunnel, about 575 feet in length, for this vein segment. Hence, it is believed in this 575-foot vein segment little caving will be encountered.

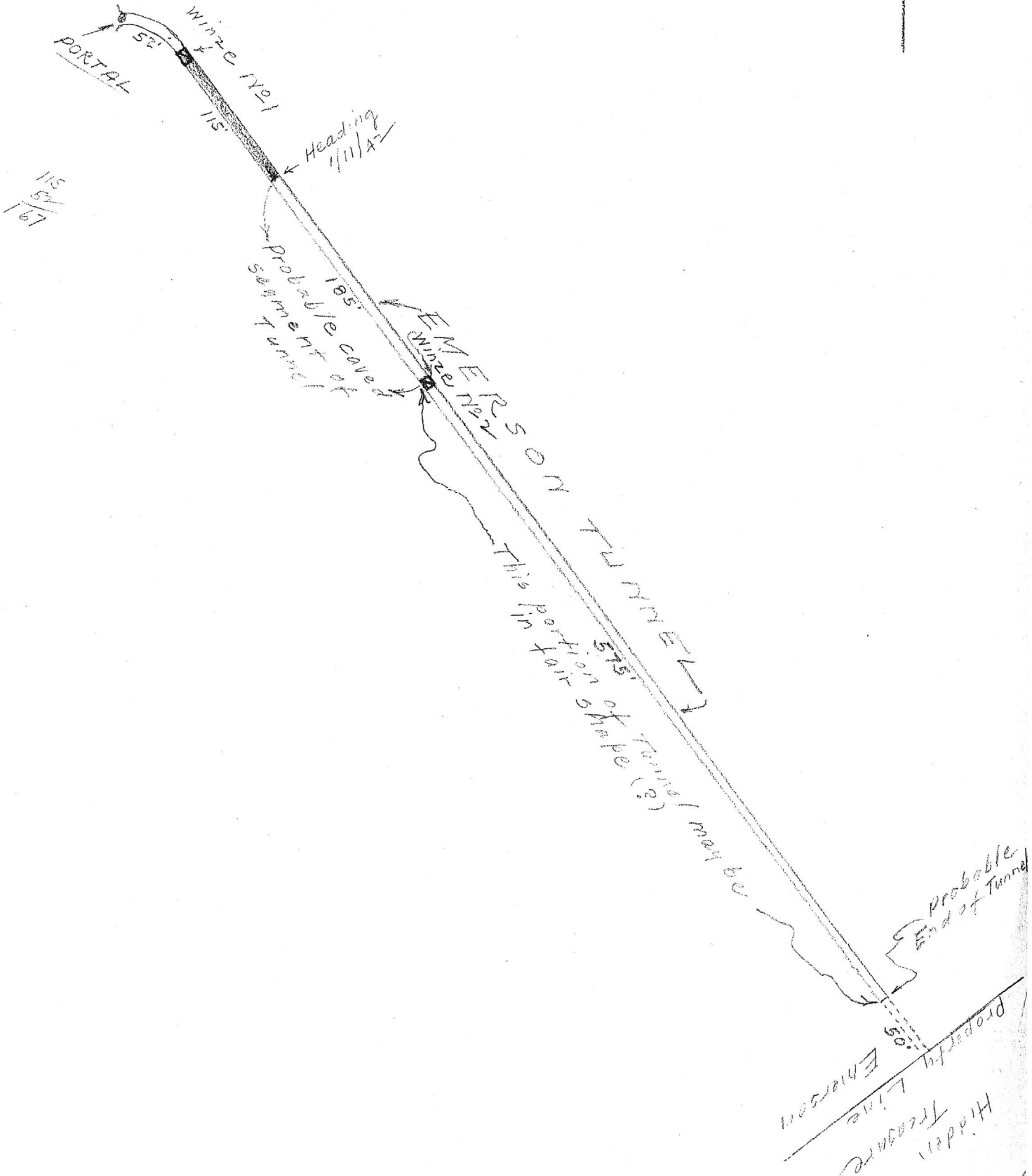
As Grannis, on January 11th, had on hand around 2,500 feet of timber, good for another 100 feet of timbering, if solid sets are required, which is doubtful, and by that date he probably had spent around \$1,000 only, his balance of say \$4,000 should finish the work well beyond the said Winze No. 2, and possibly to the extreme end of the tunnel, if no other caved segments are encountered. But if entire tunnel is caved, which is not likely, he will not be able to reach the end of the tunnel with the present \$5,000 loan.

However, as most of the underground levels in the Hidden Treasure are now open, and as most of these levels are not timbered at all, as I remember, I am rather of the opinion the said 575-foot vein segment beyond Winze No. 2, will likely be open or nearly so.

Again, yesterday I talked to Babcock, one of the owners of Hidden Treasure, and I asked him when and if the Emerson Tunnel should be cleaned out, just how far would it be necessary to drive this tunnel in order to contact the zinc ore shoots of Hidden Treasure. He said as these ores shoots, of heavy zinc sulphide ore, are raking toward the end of said Emerson Tunnel he believed the said tunnel would not have to be continued over a few hundred feet in order to reach the first of these shoots of ore.

In conclusion, this Emerson-Hidden Treasure group has the best potential ~~possibilities~~, <sup>(give)</sup> or possibility of developing into a large tonnage zinc ore mine, over any other property in that area excepting Tennessee. Hence this project should be continued at all costs, even if it is necessary for RFC to invest more funds in completing the cleaning out of the said Emerson Tunnel and then more funds in driving this tunnel ahead into Hidden treasure ground where known bodies of zinc ore are now accessible for examination and sampling.

*Elgin B. Holt*  
Elgin B. Holt.



Sketch of E.O.A.

January 14, 1943

MEMORANDUM

EMERSON MINE

TO: Elgin B. Holt

FROM: Earl F. Hastings

This will acknowledge receipt of your report on the Grannis expenditures; however, this still does not satisfy Mr. Gohring and before further disbursement is made he is sending his engineer from Phoenix to investigate the property.

It is difficult to see, if only \$800 of the first withdrawal has been expended, why another \$2800 in addition to the \$1400 surplus in the bank would be required to put a few more men to work particularly since all timber, etc. is on the premises. The object of piecemeal disbursement by the RFC is that they may satisfy themselves as to the legitimacy of the expenditures as they are made and to retain in their control unneeded sums that any project may be stopped should the work not indicate continuation justified. This, I believe, is a very fair attitude for their own protection and still leaves the operator a great deal of latitude in the nature of his work, providing he makes accounting regularly and in detail.

If the work is progressing at the rate of  $1\frac{1}{2}$  feet per day it will be necessary to continue for a period of 2 to 4 months to reach the objective, assuming of course that only a reasonable amount of ground will be caved and slow the work to an average of  $1\frac{1}{2}$  feet. Under these circumstances it appears that Grannis is attempting to obtain a disbursement for a period of 2 or 4 months in advance, which is absolutely contrary to the RFC's ideas on this matter.

We have found Mr. Gohring to be extremely lenient concerning "C" loan disbursements and in the 60 or more loans granted he has not failed to date, except in this case, to make disbursements as requested. However all other applicants when requesting further disbursement outline the need for such disbursement, which Grannis did in a very vague terms and also presented receipts for expenditures already made--which Grannis did not do until requested. The explanation as to manager, foreman, engineer, etc I think will be found to be satisfactory.

It must be remembered however that this loan was granted on the prospects of ore in the Emerson Tunnel and not in connection with project for the development of the Hidden Treasure. While this development project might be entirely feasible I think it safe to say that as the objects of the original application do not indicate ore Grannis will have very little chance of obtaining further funds to dry the tunnel. If the Hidden Treasure workings are open I suggest Grannis prevail upon the RFC engineer to make a cursory examination of them in order to bolster his entire project.

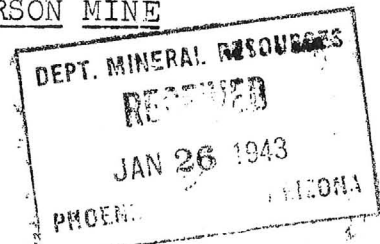
We are in favor, of course, of getting the project through but we must admit from our knowledge here that this loan has been handled in a less business like manner than any which have been disbursed to date.

Thanks for checking into this and please send in all bits of information relative to progress on other loans which have been granted in your district.

January 21, 1943

MEMORANDUM

EMERSON MINE



To: Earl F. Hastings

From: Elgin B. Holt

Attention is called to your memorandum of January 14th re- my report on the Grannis expenditures.

To say the least, it is most unfortunate that this misunderstanding came up and it seems to me there is nothing at all in this whole situation that cannot be ironed out, when and if Mr. Gohring sends an engineer up here to check up and get first hand information about the entire Grannis set-up.

Grannis has just called on me and he states he has put on another shift so as to advance the work as far as possible before Mr. Gohring's engineer gets here. Also he states he will be out of money about the last of this month and he is most anxious for the said engineer to get here before that time, or else he will have to close down, unless further funds can be advanced.

On the credit side of the Grannis ledger, kindly take note that Grannis and ~~his~~ his associate have paid the owners of the Hidden Treasure \$2,000 "earnest" money in order to secure a firm option on this property. I venture to say there has not been one out of the 46, or more, other applicants for RFC "C" loans who have spent that much money in lining up the properties on which they seek loans.

I note you say: "While this development project might be entirely feasible, I think it safe to say as the objects of the original application do not indicate ore, Grannis will have very little chance of obtaining further funds to drive the tunnel". In this regard, I am afraid you did not scrutinize my statement, in the report, or my report of January 12th: "This 115-foot section goes underneath ~~axilxaxiffoaxsaxxixion~~ an old caved stope where silver-gold oxidized ore was taken out years ago and milled", etc. And this oxidized shaft of ore goes down below the level of the tunnel. This is proved by Winze No. 1, around 20 feet deep, where some milling ore was taken out. It was never expected to get sulphide ore, near the tunnel mouth, as this ore has been reported to the old timers as existing back, or rather in the back end of the long Emerson tunnel.

In this connection, Grannis has just informed me that he has been able to get into an upper tunnel, on Emerson ground, which started as a cross cut which picked up the Emerson-Hidden Treasure vein on Hidden-Treasure ground, near the property line, of these two holdings. He went down a winze on a rope and got into a drift which extended back to about the property line. In this heading he found good zinc sulphide ore. Also, as I wrote you the main Hidden-Treasure workings are open for inspection, and two years ago I personally went into these workings and saw veins of solid blende from 2 to 2.5 feet wide; *the main Hidden-vein being much wider - where stoping was carried on.*

I wish to correct a small error I personally made, in my report of January 12th, to keep the record straight. I ~~sated~~ stated: "Work started at N. W. side of Winze No. 1 and continued S. E. 115 feet to present heading". This statement was based on pacing by Thurston, who was

present with me that day, as I did not have my tape with me. Grannis has just reported that later on he measured this distance with a tape and found it to be 105 feet, instead of 115 feet.

In my talk to day with Grannis, he admits that he made a mistake in applying, as he did, for further funds before he had spent his first allowance, and he is very sorry about this matter. I told him to go home and make out a full detailed statement to Mr. Gohring, giving an exact accounting to date of all of his expenditures, and asking for a reasonable amount with which to continue the work.

It seems to me, as stated, that Mr. Gohring should send his engineer as soon as possible to look this entire situation over. Also, I would recommend that the balance of the \$5,000 should be expended in driving this tunnel ahead, as any day, Grannis may break through this caved area and be able to get back to the end of the tunnel, with only minor cleaning out. This being only a guess. But should the tunnel continue to be caved in for a long distance, I think this set-up should be revamped along the following lines:

That the tunnel be stopped and a \$20,000 loan be made to sink winzes on known veins of zinc sulphide ore in the main workings of the Hidden Treasure mine, which in 1936-37 supplied a 150-ton selective flotation mill with ore carrying goodly zinc values. In the main Hidden-Treasure workings there are stopes, per Babcock, filled with zinc sulphide ores. The main opening on this property consists of a long cross-cut tunnel to the ore vein. Drifts bein run NW and SE on the vein in good ore. The SE drift is filled with broken ore from the stopes above and cannot now be entered. The end of this drift is said to be in ore, which is important, as the vein outcrop goes southeasterly up the mountain side gaining "back" rapidly.

Again, should the Emerson tunnel continue to be a hard nut to crack, it should be stopped and an application made for \$20,000 with which to develop known ores bodies in the Hidden-Trasure workings.

In conclusion, there is nothing wrong with Grannis. He is a hard worker and has the best proposition lined up in the Chloride area. He merely got off on the wrong foot, through not knowing just how to accout for RFC funds. I don't think he will make the same mistake again. So I think he should be coached and told what to do, instead of censured.



Elgin B. Holt

January 11, 1943

MEMORANDUM

EMERSON MINE

TO: Elgin B. Holt

FROM: Earl F. Hastings

Will you please report on the conditions at the above property as per my last memorandum.

I think it unlikely Mr. Gohring will approve further disbursements until some authentic information is received.

Copy to Mr. Holt

Box 147  
Chloride, Arizona.  
Jan. 8, 1943.

Mr. W. B. Gohring,  
Supervising Engr., RFC,  
225 Heard Bldg.,  
Phoenix, Arizona.

Re: Docket No. C-ND-7949

Dear Mr. Gohring:

Your letter of January 6th received.

Enclosed are receipts for part of the money spent to date from my first Withdrawal Request. Additional funds spent are as follows: Escrow fees- Valley National Bank, Kingman, \$20.00; 12 assays @ \$2.00 each, \$24.00; 3 assays @ \$2.50 each, \$7.50; recording fees \$10.20; notary public fees \$5.00; 450 miles travel @ \$.05 per mile from Dec. 15th to Jan 1st, \$22.50; office supplies and postage, \$5.00; supplies for mine \$17.26; 533' of timber from Producer's mine, \$17.65; salary to myself from Dec. 15th to Jan. 1st, \$100.00; making a total of \$229.11, in addition to enclosed receipts which total \$548.15; making a combined total of \$777.26. There are some items outstanding in addition to the current payroll which can not be entered until the first of next month.

As you see, only part of the first Withdrawal Request has been used. The \$100.00 engineering fee paid covers the cost of the mapping and engineering requirements which were necessary in making the preliminary application for the loan, and I have no engineer employed in any other capacity at this time. The \$150.00 engineering fee in the second request will be for the same purpose in applying for the B loan, when combining the Emerson and Hidden Treasure groups, but not used until that time. It has been my understanding that this is allowable, but if not, it will not be included.

As to the mine foreman. I happened to be able to get a man who is very familiar with mining in this district and who takes charge when I am away getting supplies etc. However, he puts in a shift's work at all times so I don't consider him as overhead expense.



Copy to Mr. Holt

Mr. W. B. Gohring, 2.

As to attorney fees, it is doubtful if they will amount to more than \$25.00, possibly not that much as I did not require as much legal work as it at first indicated. However, to date I have not had a statement from my attorney, and all necessary papers on both the Emerson and Hidden Treasure have been recorded and placed in escrow at the bank.

The reason for the second request is that it is my belief the work can be carried on faster to completion with the additional funds being made available here. Some of the items mentioned in the first request are not available now, and have different prices where they are available. Also, timber is scarce and when it is found, I would like to get a sizable quantity when it is certain it will be needed. The same is true of track, pipe and other necessary supplies. Also, the work will soon reach a point where additional men can be employed to advantage to complete this phase of it sooner.

My chief interest and aim is to get these two properties combined and into production as soon as possible, and will at any time give you any information I have regarding it. The work is progressing well, but slowly at present, as it is quite a bad cave, but I believe we are getting the best of it now.

Yours sincerely,

Frank H. Grannis.

January 6, 1943

MEMORANDUM

EMERSON MINE

TO: Elgin B. Holt

FROM: Earl F. Hastings

Mr. Grannis has made application for withdrawing the balance of his loan credit from the RFC. I was in Mr. Gohring's office and was asked to look over the budget submitted, as well as the budget on which premium withdrawal had been allowed.

It is noted that the two withdrawals follow each other in very close sequence although payroll funds were, in the first withdrawal, sufficient for an entire month. It is also noted that payroll funds were requested for two miners; however, there was an allowance for a mine foreman, an engineer, a manager and an attorney. In short, supervision cost was about double the labor cost.

It is also noted that the engineer on the first withdrawal was to receive \$100 and on the second withdrawal \$150. It is difficult to reconcile a payment of \$250 for engineering services at this time. Following termination of the work, such an expenditure might be justified in collecting data relative to ore reserves found; however, the necessity of an engineer's guidance in removing muck from a tunnel is a little bit beyond our conception of proper practice as is the necessity of having both a manager and a mine foreman to direct the work of two men.

No report of progress to date accompanied the applicants request for additional loan funds, nor were there any receipts showing that the expenditures were made on the initial withdrawal as per budget.

I am greatly disappointed in the manner in which this appears to have been handled and I know that Mr. Gohring is not only disappointed but somewhat chagrined. Will you please visit the property, noting the extent of the work done, report on any exposures made as a result of this work and your opinion as to the manner in which the loan funds are being expended. Also advise us if you believe the balance available will be sufficient to reach the objective.

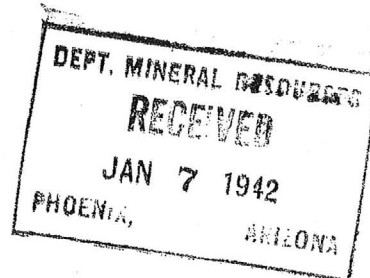
Do not hesitate to make a negative report if justified, bearing in mind that all recipients of loans suffer through the iniquity of any one applicant in that the reflection becomes general.

I was favorably impressed with Mr. Grannis so was somewhat amazed when confronted with the documentary evidence relative to his expenditures. Our problem is not to support Mr. Grannis in the above explanations but to give a concise statement as to the nature of these expenditures whether detrimental to the applicant or not. Many loans are being granted on the grounds of our recommendations and it is up to us to maintain our high reputation with the RFC through accurate and unbiased reports on the properties, both before the loan is granted and during the expenditures of such loans.

Several other loans have been granted in your district and those who have received them should be warned against any unbusiness like expenditures.

*Emerson*

325 Heard Building  
Phoenix, Arizona  
January 6, 1943



Mr. Frank H. Grannis  
Box 147  
Chloride, Arizona

Re: Docket No. G-ND-7949

Dear Mr. Grannis:

I have received today your second Withdrawal Request, but before approving it I would like a little more information about what you are doing. You withdrew \$2127.13 only 3 weeks ago. Before any more withdrawals are approved, I want some evidence in the form of receipts, pay rolls, etc., that this money was spent on the job.

I would also like to ask you about the items on your first Withdrawal Request. You show 2 miners drawing \$374.90, then for overhead you have an engineering fee of \$100.00; mine foreman \$213.20; a manager \$200.00, not to mention an attorney at \$100.00. It looks to me like that was a tremendous overhead for the purpose of bossing 2 miners.

I have no objection at all to your withdrawing the money as you need it, but you certainly owe it to us to give us some explanation and evidence of how you spent the money as above.

Yours very truly,

*W.B.C.*  
W. B. COHRING  
Supervising Engineer

WBG:ml

COPY

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine EMERSON GROUP Date November 6, 1942.  
District Wallapai, Mohave Co., Ariz. Engineer Elgin B. Holt  
Subject: Re: Application For: Preliminary Development Loan

LESSEE: ✓ Frank H. Grannis, P. O. Box 147, Chloride, Arizona.

METALS: Lead, Zinc, gold and silver.

LOCATION: The Emerson group is located about three miles southeast of Chloride, Arizona, at the foot of the Cerbat Mountains. It is reached from Chloride by a fairly good road, over which heavy loads can now be hauled.

R.F.C. LOAN APPLICATION: I visited this property on November 4, 1942, in company with Frank H. Grannis, who is arranging to apply for a Preliminary Development Loan, from R. F. C., in the sum of \$5,000. On my return to Chloride from the property, I checked over the said application, which had already been drawn in part by R. A. Thurston, Mining Engineer, Chloride, Arizona. I suggested certain alterations and additions to the said application, which Mr. Thurston incorporated in the same. Also, I handed Mr. Thurston a copy of my report on the Hidden Treasure mine, which covers the S. E. extension of the Emerson vein, and this report was also incorporated in the application mentioned, as an exhibit. It will be noted that the Hidden Treasure mine is a large potential producer of zinc-lead ore.

EMERSON VEIN: F. C. Schrader states, in U. S. Geological Survey Bulletin 397: "The Emerson mine is nearly 3 miles southeast of Chloride and about 400 feet above it, in the lower slope of the range. The topography is rough. The country is the pre-Cambrian complex. The vein is one of the strongest of the camp. It dips northeast at angles of about 77 degrees. It is well defined and is reported to extend to the crest of the range, about two miles distant on the southeast. It is held by some to be the northwest extension of the Hidden Treasure vein and has the same characteristics. It is from 5 to 15 feet in width, 3 to 8 feet of which is mainly fresh hard quartz. The vein has been opened to a depth of about 200 feet, and three levels have been turned.

"The valuable metal is gold associated with pyrite and chalcopyrite in quartz gangue. The ore is ideal for concentrating and much of it is good shipping ore. The values are reported to continue the same in the sulphide zone as in the oxidized zone."

MINE WORKINGS: The Emerson vein, mentioned, is developed by a main tunnel, which starts as a cross-cut, running N. 80 deg. E. 45 feet to vein. Thence S. 35 deg. 300 feet to a point where it connects with a winze sunk from an upper level of the mine. Thence tunnel continues S. 35 deg. E. 650 feet to end of tunnel and also end of the Emerson ground. Making total length of tunnel around 1,000 feet.

EMERSON GROUP

PRODUCTION: There are no records available as to the early production of this property. In 1941-42, however, 478 tons of oxidized ore were shipped to the Producers cyanidation plant, from a stope near the portal of tunnel. Said 478 tons assayed: gold, 0.228 ounces and silver, 5.25 ounces per ton. Zinc and lead in the ore were not determined. That part of tunnel on vein between the stope referred to and the winze is partly caved and inaccessible. It is alleged that sulphide ore, carrying zinc, lead, gold and silver, was encountered in tunnel about 275 feet from the portal thereof, and that from the said point sulphide ore continues to the end of tunnel and claim; the vein to the southeast being covered by Hidden Treasure ground.

ASSAYS: There are two other veins, within the Emerson Group, known as the Silver vein and the Hamlin vein. Samples from these two veins, per Thurston, give the following results:

Vein	Width	Au, oz.	Ag, ozs.	Pb, %	Zn, %
Silver	36"	0.16	25.00	(Pb & Zn not tested)	
Hamlin	36"	0.26	6.80	-	2.6

OBJECTIVE OF \$5,000 LOAN: Applicant states that he proposes to use the said loan, when and if granted, to clean out, retimber and rehabilitate the main tunnel mentioned. That after this has been accomplished, he further proposes to apply for a Class B. \$20,000 loan, from RFC, with which to develop the sulphide ore, in the back portion of the tunnel, along lines to be agreed upon between the examining RFC engineer and himself.

CONCLUSION; From facts herein set forth, I am of the firm opinion and belief that deeper work in the Emerson Group will result in uncovering important reserves of zinc-lead ores, carrying goodly values in gold and silver, such as have already been uncovered in the Hidden Treasure mine. And, hence, that this property warrants the granting of the said \$5,000 preliminary development loan.

(Signed: Elgin B. Holt  
Field Engineer

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine EMERSON GROUP

Date November 6, 1942

District Wallapai, Mohave Co., Ariz.

Engineer Elgin B. Holt.

Subject:

RE- APPLICATION FOR: PRELIMINARY DEVELOPMENT LOAN

LESSEE: Frank H. Grannis, P. O. Box 147, Chloride, Arizona.

METALS: Lead, zinc, gold & silver.

LOCATION:

three  
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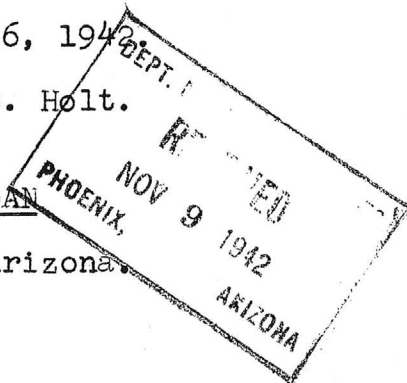
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MINE WORKINGS:

The Emerson vein, mentioned, is developed by a main tunnel, which starts as a cross-cut, running N. 80 deg. E. 45 feet to vein. Thence S. 35 deg. 300 feet to a point where it connects with a winze sunk from an upper level of the mine. Thence tunnel continues S. 35 deg. E. 650 feet to end of tunnel and also end of the Emerson ground. Making total length of tunnel around 1,000 feet.

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Date: ?

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CONCLUSION:

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*Elgin B. Holt*

Elgin B. Holt,  
Field Engineer.



*Quarried*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine **EMERSON, Pb., Zn., Ag.**

Date **November 23, 1942**

District **Chloride (Wallapai)**

Engineer **Earl F. Hastings**

Subject: **Reconstruction Finance Corporation** ✓  
**Preliminary Development Loan**

Docket No.

**C-ND-Phx. 90**

Date Application Received

**November 9, 1942**

Date of Report

**November 20, 1942**

1. Name and address of applicant (correspondent):  
**Frank H. Grannis. Box 147, Chloride, Arizona.**
2. Character of project and estimated cost thereof:  
**Repair lower tunnel and equip with rail and pipe to make accessible lead-zinc ores near endline of Emerson property and to develop the same vein to the Hidden Treasure workings.**
3. Location of property:  
**Chloride Mining District about  $4\frac{1}{2}$  miles South East of Chloride, Mohave County, Arizona.**
4. Applicant's interest in or ownership of property:  
**Applicant holds Lease and Option to Purchase.**
5. Loan requested:  
**\$5,000.00.**
6. Loan recommended:  
**\$5,000.00.**
7. Comments:
  - (A) **The main Emerson Vein is strong, persistent and well mineralized. Shipments of oxidized ores have been made to a cyanide custom plant for the recovery of Gold and Silver, these ores being removed from areas near the center of the Emerson claim where backs above the tunnel level are small. This tunnel progresses on the Emerson Vein in a southeasterly direction to the endline of the Emerson claim and ends within some 600 feet of the Hidden Treasure main shaft and workings, at which point there are some 700 feet of backs below the surface and 350 feet below the lowest Hidden Treasure workings.**
  - (B) **Subsequent to the date of this application the applicant acquired through bond and lease the Hidden Treasure property. This addition appreciably increases the value of the Emerson claim in that it brings under one operation the entire length of this prominent vein with productive workings on each end, some 1700 feet apart, and a most favorable unexplored block between these workings which can readily be opened.**

November 23, 1942

- (C) While assay data is lacking on the area southeast of the winze between the upper and lower tunnels, where sulphides were first encountered, it is recalled by the writer that Emerson Dump ores were tested for value and metallurgy in 1938 in connection with the operation of a custom mill near Chloride. The ores were marginal on the basis of operating costs of the small plant and the price of metals at that time.
- (D) The above tests indicated that the metallurgy was fair in spite of the mixed oxides and sulphides of the dump. All straight sulphide ores in that district which were tested yielded an exceptionally high recovery of all values.
- (E) Undoubtedly a substantial tonnage can be mined from the existing Emerson workings, but that property alone would be of questionable value. With the addition of the Hidden Treasure, production possibilities are greatly enhanced and this loan can be recommended.
- (F) The applicant should be discouraged from development interest in the Silver Vein and all efforts in the immediate future expended on the main Emerson Vein.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Earl F. Hastings  
Assistant Director and  
Projects Engineer.

EMERSON GROUP

November 6, 1942.

Wallapai, Mohave Co., Ariz.

Elgin B. Holt

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Field Engineer