DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

Mining Division
Date Rec'd.
MAR 19 1953
BUREAU OF MINES
Denver, Colorado

MAR 17 1953

Mr. Cyrus F. Weeks

Kingman, Arizona

Re: DMA-374
Commodity-Copper

Dear Mr. Weeks:

Since we have not received an answer to our letters of September 12, 1952 and January 13, 1953, it is assumed that you are no longer interested in applying for government assistance. It is also to be noted that no further floor price contracts for new copper production are contemplated.

We are, therefore, withdrawing your original request for a loan DMA-374.

Very truly yours,

TOM LYON

Tom Lyon, Director
Domestic Expansion Division

Region IV

224 New Customhouse
Denver 2, Colorado

July 10, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 374, C. F. Weeks, Emerald Isle Copper Deposit, Mohave County, Arizona

Enclosed is a copy of a letter from Tom Lyon, Chairman, DMPA Operating Committee, in reply to our letters of May 12 and June 12, 1952, concerning Docket DMA 374.

Reference is made to our memorandum to you dated June 12, 1952, in which we enclosed a copy of several letters regarding this docket. The memorandum dated October 8, 1951, from the DMA Field Team, to the Executive Secretary, DMA, which transmitted the final report on this application recommended that the development loan be denied.

The memorandum dated October 8, 1951, from the Chief of the Mining Division to the DMA Field Team, Region IV, which transmitted the engineering report to the Field Team, Region IV, mentioned an alternative proposal which consisted of rehabilitation and enlargement of the present plant with an adjunctive acid-leaching plant should the copper situation become more critical. This alternative was not discussed with the applicant and was not recommended by the Field Team.

The enclosed letter from Mr. Lyon states: "The essentiality of a small project is influenced therefore by its ability to attain productive status in a short time in order to help alleviate the shortages of the near future. If the Emerald Isle property can qualify under the above conditions, we feel that a further study of the project is justified and desirable."

We have given further study to this application and do not believe that any appreciable amount of copper can be produced as a result of this revised proposal and that no further study of the project is justified. It is suggested that a letter denying the application be prepared and sent to the operator.

W. H. King

W. H. King

Enclosure
JFS:ld
cc: Docket, chron.
Koschmann
Storms

DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

Mining Division
Date Rec'd.
JUN 30 1952
BUREAU OF MINES
Denver, Colorado

JUN 26 1952

Mr. W. H. King
Executive Officer
DMPA Field Team IV
c/o Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Re: Your letters of May 12 and June 12, 1952 concerning DMA-374, C. F. Weeks, Emerald Isle copper deposit

Dear Mr. King:

In the field team report on the above project a recommendation was made that consideration be given to a revised proposal for rehabilitation and enlargement of the present plant with an adjunctive leaching plant should the copper situation become more critical. It was our impression that such a project had been discussed with the applicant during the field investigation.

When Mr. Weeks requested information concerning the status of his application, he was informed by the Copper Branch in a letter dated April 8, 1952, that they had expected a revised application according to the recommendations in the field team report and in a subsequent letter signed by Tom Lyon he was referred to the field team for assistance in revising his project. The giving out of confidential information was not involved and Mr. Weeks request for such information should be denied.

The question concerning the advisability of presenting a revised project for the Emerald Isle mine at this time would appear to depend on the production costs and the timing. Under the present policy the maximum floor price for assisted copper production expansion projects involving floor price contracts has been set at 25½ cents per pound of recoverable copper.

A study of the copper balance sheet shows that the major copper expansion projects will not come into production until 1955 and 1956 which leaves a deficit to meet defense and civilian requirements between 1952 and 1956. The essentiality of a small project is influenced therefore by its ability to attain productive status in a short time in order to help alleviate the shortages of the near future.

Mr. W. H. King

If the Emerald Isle property can qualify under the above conditions we feel that a further study of the project is justified and desirable.

Very truly yours,

Tom Lyon

Chairman,
DMPA Operating Committee

H. N. Hedges
Bureau of Mines

T. P. Thayer
Geological Survey

224 New Customhouse
Denver 2, Colorado

June 12, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 374, C. F. Weeks, Emerald Isle Copper Deposit, Mohave County, Arizona

Enclosed is a copy of each of the following letters:

From C. F. Weeks to Tom Lyons dated April 12, 1952.
From Tom Lyon to C. F. Weeks dated April 21, 1952.
From Executive Officer, Region IV, to Secretary to the Operating Committee dated May 12, 1952.
From C. F. Weeks to Walter R. Storms dated April 24, 1952.
From C. F. Weeks to J. H. East, Jr., dated May 26, 1952.
From Executive Officer, Region IV, to C. F. Weeks dated June 12, 1952.

A copy of Mr. Week's letter to Mr. Storms was attached to our memorandum of May 12, 1952. In our memorandum we stated as follows: "We do not believe it is within our province to give Mr. Weeks the information he requests unless you instruct us to do so." We have not received a reply to our memorandum.

Please advise us if we should disclose the contents of our report to Mr. Weeks.

W. H. King
W. H. King

Enclosures

JRS:ld

Docket, chron.
Koschmann
Storms

APR 1 9 1952

Mr. Tom Lyon,
Director, Domestic Expansion Division,
Defense Materials Procurement Agency,
Washington 25, D. C.

Dear Mr. Lyon:

Re: DMA-374
Commodity-Copper

Your letter of April 8th at hand. It is my intention to submit a revised project concerning the Emerald Isle to conform to the Field Team investigation. In order that I amy proceed with this matter, will you kindly forward me a copy of the results of the Field Team investigation of the Emerald Isle deposit?

Thanking you for your co-operation, I am,

Very truly yours,

/s/ C. F. Weeks

C. F. Weeks

C O P Y

DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

APR 21 1952

Mr. C. F. Weeks

Kingman, Arizona

Re: DMA-374
Commodity -Copper

Dear Mr. Weeks:

This is to acknowledge your letter of April 12, 1952 addressed to Mr. T. Lyon requesting a copy of the field team report.

We are sorry to inform you that such reports are classified as confidential and are not permitted outside the Government. If the field team had not discussed any revision of your application with you while they were on your property, it is recommended that you contact them. In doing so you will have their full cooperation in outlining a program which will comply with their investigation.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Domestic Expansion Division

RVWaugh:rw
4/17/52
257298

Copy to: DMPA Official File Copy
DMPA Index File Copy
DMPA Files
Mr. Gowen
Field Team, Region IV

224 New Customhouse
Denver 2, Colorado

May 12, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, Region IV, Field Team

Subject: DMA Docket 374, C. F. Weeks, Emerald Isle Copper Deposit, Mohave County, Arizona

Enclosed is a copy of a letter from C. F. Weeks to the Chief, Arizona-New Mexico Branch, Mining Division, Region IV, regarding DMA-374.

A report recommending denial of a direct loan of approximately $600,000 was sent to Washington on October 8, 1951.

We do not believe it is within our province to give Mr. Weeks the information he requests unless you instruct us to do so.

J. H. East, Jr.

JFS:oc J.F.S.

cc: Subject, Chron.
Koschmann (2)

CYRUS FOSS WEEKS
Consulting Engineer
Kingman, Arizona

April 24, 1952

Mr. Walter R. Storms,
Chief of Arizona-New Mexico Mining Branch,
Bureau of Mines,
Box 4097, University Station,
Tucson, Arizona

Dear Mr. Storms:

Re: DMA - 374

I am trying to perfect my loan application on the Emerald Isle copper mine, and in doing so, I have written Mr. Lyon, director of the Domestic Expansion Division of the Defense Materials Procurement Agency. At the suggestion of Mr. Lyon, I am contacting you, so that I may be able to get the necessary information for a revision of my application to fit the recommendations made by your office.

I will appreciate it if you will send me an outline of the recommended changes in my application.

Thanking you for your co-operation, I am,

Very truly yours,

/s/ C. F. Weeks

C O P Y

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 5/28/52

REFERRED TO:

1. ~~King~~ W. H. K.
2. Shaner
3. JA
4. Wonder what this is all about.

FOR:

✓ Action	Recommendation
Approval	Record of
Comment	Referring to
Conference	Reply for signature of
Consideration	Rewriting
Filing	Signature
Instructions	Suggestions
Investigation	Your information
Initials	
Mailing	
Previous correspondence	

REMARKS: Ltr. from C. F. Weeks, re: DMA 374

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

CYRUS FOSS WEEKS
CONSULTING ENGINEER
KINGMAN, ARIZONA

May 26, 1952

Mining Division
Date Rec'd
MAY 28 1952
BUREAU OF MINES
Denver, Colorado

Mr. J. H. East, Jr.,
Regional Director, Bureau of Mines,
New Customhouse Building,
Denver, Colo.

Dear Mr. East:-

(Re. Docket No. DMA-374)

I have a letter from Mr. Walter R. Storms, dated May 6, 1952, in which he advises me that he has written you in regard to the DMA examining team's recommendations on the Emerald Isle deposit, so that I may make the necessary changes in my application.

I have written Mr. Lyon, and had a letter from him under date of April 21st, advising me that the Field Team would recommend certain revisions of my application. I am writing you with the assumption that Mr. Storms' letter has gone astray, and has not reached you.

Hoping to hear from you at your earliest convenience, I am,

Very truly yours,

C. F. Weeks

C. F. Weeks

CFW/ww

(Cc to Mr. Walter R. Storms,
Tucson, Arizona)

224 New Customhouse
Denver 2, Colorado

June 12, 1952

Mr. C. F. Weeks, Mining Engineer
Kingman, Arizona

Dear Mr. Weeks:

This will acknowledge your letter of May 26, 1952, regarding a possible revision of Docket DMA 374, an application for a direct loan.

Matters pertaining to direct loans are in the province of the Defense Materials Procurement Agency. We do not believe it advisable for us to recommend a program involving Government assistance based on the information contained in a confidential report now in the files of that agency.

Mr. Howard I. Young, Deputy Administrator, DMPA, General Services Administration Building, Washington 25, D. C., is in charge of the Defense Materials Procurement Agency.

Yours very truly,

W. H. King

W. H. King
Executive Officer
Field Team, Region IV

WHK:LD
cc: Docket, chron.
Mittendorf
Koschmann
Storms

DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

APR 8 1952

Mr. G. F. Weeks

Kingman, Arizona

Re: DMA-274
~~Commodity-Copper~~

Dear Mr. Weeks:

This is to acknowledge your letter of March 28, 1952 addressed to Mr. C. O. Mittendorf and which was referred to the Copper Branch, Domestic Expansion Division of this Agency for reply.

It was our belief that you were going to submit a revised project concerning your property in connection with the field team investigation of the Emerald Isle deposit. Therefore, in waiting for this project we have not taken any further action on your application because from the material you have submitted with your application and the information available to the Government, it appears that your present project is not feasible.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Domestic Expansion Division

MWaughaw
4/7/52
29714.2

Copy to: Official File Copy, DMPA
DMPA Index Copy
DMPA Files
Mr. Gowan
Field Team, Region IV

Mining Division
Date Rec'd.
MAY 8 - 1952
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINING DIVISION
REGION IV

Arizona-New Mexico Branch
SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION
TUCSON, ARIZONA

May 6, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br.,Mining Div., Region IV

Subject : DMA Docket 374, C. F. Week's Emerald Isle Copper Deposit, Mohave County, Ariz.

Enclosed is copy of a letter that we recently received from Mr. Weeks. As he wants to know what the DMA examining team recommended, I believe the Field Team should answer his letter.

Walter R. Storms

Walter R. Storms

CC W. H. King
DMA-374
DF

MINING DIVISION
REGION IV

May 6, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br.,Mining Div., Region IV

Subject : DMA Docket 374, C. F. Week's Emerald Isle Copper Deposit, Mohave County, Ariz.

Enclosed is copy of a letter that we recently received from Mr. Weeks. As he wants to know what the DMA examining team recommended, I believe the Field Team should answer his letter.

Walter R. Storms

CC W. H. King
DMA-374
DF

WRStorms:frj

MINING DIVISION
REGION IV

May 6, 1952

Re: DMA Docket 374, Emerald Isle Copper Deposit, Mohave County, Ariz.

Mr. C. F. Weeks
Box 227
Kingman, Ariz.

My dear Mr. Weeks:

Please excuse me for the delay in answering your letter of April 24, but I have been out of town and only returned yesterday.

As your letter askes about the DMA examining team's recommendations on your Emerald Isle copper deposit, I have sent it to our Denver office for an answer. You should hear from Mr. East within a short time.

Sincerely yours,

Walter R. Storms, Chief
Arizona-New Mexico Branch

CC W. H. King (2)
DMA-374
DF

WRStorms:frj

MINING DIVISION
REGION IV

May 6, 1952

Re: DMA Docket 374, Emerald Isle Copper Deposit, Mohave County, Ariz.

Mr. C. F. Weeks
Box 227
Kingman, Ariz.

My dear Mr. Weeks:

Please excuse me for the delay in answering your letter of April 24, but I have been out of town and only returned yesterday.

As your letter askes about the DMA examining team's recommendations on your Emerald Isle copper deposit, I have sent it to our Denver office for an answer. You should hear from Mr. East within a short time.

Sincerely yours,

Walter R. Storms, Chief
Arizona-New Mexico Branch

CC W. H. King (2)
DMA-374
DF

WRStorms:frj

March 27, 1952

Mr. Cyrus F. Weeks

Kingman, Arizona

Dear Mr. Weeks:

This will acknowledge receipt of your letter dated March 25, relative to your application, Docket DMA-374. The field team completed the report on your property and forwarded same to Washington, October 8, 1951. It is suggested that you write C. O. Mittendorf, Acting Administrator, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C., regarding the present status of your application.

Very truly yours,

J. H. East, Jr.
Regional Director

JHE:ftm

DMA

Please advise this office

CYRUS FOSS WEEKS
CONSULTING ENGINEER
KINGMAN, ARIZONA

DME

REGIONAL DIRECTOR'S OFFICE
REGION IV
MAR 27 1952
BUREAU OF MINES
DENVER, COLORADO

March 25, 1952

Mr. J. H. East, Jr.,
Regional Director, Defense Minerals
Exploration Administration,
Bureau of Mines, New Customhouse Bldg.,
Denver, Colo.

Dear Mr. East:

Re. Docket No. DMA-374

Under date of February 1, 1951, I have a letter from Mr. S. H. Williston, Director Supply Division, D.M.A., stating that my application for a loan to complete treatment plant on the Emerald Isle copper property, has been reviewed and referred to your office for field study.

In March, 1951, Mr. Walter R. Storms, chief of the Arizona-New Mexico Mining Branch, Bureau of Mines, at Tucson, completed the examination of my copper mine (the Emerald Isle, Kingman, Ariz.).

Since then, I have been unable to acquire any information whatever as to the outcome of the examination or the outcome of my application for a loan. I note in the March 21st, 1952, issue of "Pay Dirt", published by Arizona Small Mine Operators, that information from your office is to the effect that "109 projects have been approved, 125 denied, and one still under consideration".

I will greatly appreciate information from you as to the outcome of my application.

Sincerely,

C F Weeks

Cyrus F. Weeks

CFW/ww

Oct 8 - 1951

JHE

Mining Division
Region IV

October 8, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 354, C. W. Vanke, Applicant, Emerald Isle Copper Deposit, Mohave County, Arizona

The applicant of the subject docket submitted an elaborate plan to produce cement copper and copper chlorate by leaching chrysocolla and melanocerite copper minerals occurring in a complexedric ranking on a granite pediment. This plan included an acid plant, rehabilitation of the Tennessee mill for the production of pyrite and lead zinc concentrates, and sponge iron plant. Details on the costs of the various phases of the project were not submitted, but the estimated total cost was $600,000.

As the proposal appeared to have some merit, detailed examinations were made by the U. S. Geological Survey and by the Mining and Metallurgical Divisions of the U. S. Bureau of Mines. Their conclusions are that supplemental drilling would be required to accurately determine the tonnage and grade of indicated reserves and to obtain representative metallurgical samples. Several phases of the proposal such as the manufacture of blue stone and pyrolusite and rehabilitation of the Tennessee mill are not considered feasible.

The proposed production plan of the applicant is not attractive enough to warrant asking the applicant to submit a more fully integrated proposal. Production costs for cement copper at the Emerald Isle Mine would require considerable experimentation and a pyrometing plan for the entire output for five years in order to insure repayment of the loan.

The only recommendation made in this consideration should be given to a revised proposal for rehabilitation and enlargement of the present plant with an adjunctive acid-leaching plant should the copper situation become more critical. We concur with this recommendation.

F. T. Gleason

Attach.

cc: DMA

[redacted]
Denver 2, Colorado

[redacted]

October 6, 1958

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Project [redacted], S. B. Smith, Applicant, Emerald Lake Copper Deposit, Mohave County, Arizona

Enclosed herewith are the original and two copies of the report on the subject project.

In accord with the conclusions and recommendations of the attached team that the development loan of approximately $[redacted] be denied.

The file is enclosed.

J. H. Eustis
[redacted], Jr.

for Ogden Jones
[redacted]

WDM:oj
cc: DMA Subject and Chronological
Ahkoschmann

Mining Division
Date Rec'd.

OCT 1 1951

BUREAU OF MINES
Denver, Colorado

[illegible] 28, 1951

[illegible] confidential

To : J. W. [illegible], Jr., Denver, Colo.

From : J. [illegible] (Denver), Denver, Colo.

Subject : [illegible]-374, Emerald Isle

Transmitted herewith are original and seven copies of metallurgical report on Emerald Isle [illegible]-374 together with [illegible], conclusions and recommendations.

? J. Rice [illegible]

[illegible]

cc: J. [illegible], Jr. (7)
S. Zimmerley
F. Allen
[illegible] Anderson
[illegible]-374

Charlotte
Hood until
either DMA 37 & repair
arrive

32y

JAE

DMA

March 8, 1951

Memorandum **Air Mail**

To : O.C. Ralston, Washington, D.C.

From : J. Bruce Clemmer, Tucson, Ariz.

Subject : Copper Sulfate

Mr. S.F. Weeks of Emerald Isle Copper Company submitted a preliminary proposal to D.M.A. for a $600,000 loan to reopen the mine and build a 500 ton per day hydrometallurgical plant at Chloride. The proposal, referred to us for consideration, is novel in that it embraces:

(1) Manufacture of leaching strength acid by catalytic oxidation of SO_2 in mechanical cells from roasting of pyrite recovered from custom milling of pyritic lead-zinc ores of the district and from retreatment of impounded Tennessee mill tailings

(2) Production of about 75 percent of the leached copper as blue vitrol by crystallization of the leach solutions

(3) Production of the remaining 25 percent of leached copper as cement using sponge iron as the precipitant made from the pyritic roaster calcines

We are not greatly concerned about step 1 as we have very good information on acid-making. The economics of step 3 are doubtful for a small operation so long as shredded detinned cans can be obtained at $30 a ton f.o.b. Chloride. This step was apparently added as an after-thought just to complete the picture and need not concern us greatly.

Success of the operation is predicated upon step 2. If a marketable blue vitrol can be prepared at a reasonable cost, then Emerald Isle can pay its own way for the first time. Mr. Weeks frankly admits that operation for cement copper alone would not be economic at present prices even though he should make the acid and precipitant.

As we know practically nothing about the production of copper sulfate, I would appreciate your thoughts on the matter. The idea has merit, but the chemical engineering problem is more involved than Mr. Weeks appreciates. A few crystallizers and filters certainly will not do the job on impure solutions containing considerable zinc, alumina, iron, silica, et cetra.

If you have, or can obtain for us, any information on the annual consumption of various commercial grades of blue vitrol it would help us greatly. Our library is small and we are unable to find any information on analyses of commercial grades of copper sulfate. The anticipated annual

production of blue vitrol at Emerald Isle will amount to only 5,600 tons which is probably 5 percent or less of the domestic consumption.

J. BRUCE CLEMMER

cc: JHEast, Jr.
SHZimmerley
DMA
DF

DMA file attached

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
BOX 4097
UNIVERSITY STATION

TUCSON, ARIZONA

REGIONAL DIRECTOR'S OFFICE
REGION IV
MAR 9 - 1951
BUREAU OF MINES
DENVER, COLORADO

March 8, 1951

Memorandum — Air Mail

To : J.H. East, Jr., Denver, Colo.

From : J. Bruce Clemmer, Tucson, Ariz.

Subject : DMA Docket 374 - Emerald Isle Mine

Mr. C.F. Weeks spent several hours with us Tuesday, March 6, to explain and elaborate upon his proposal for copper production from Emerald Isle. Messrs. Anderson and Romslo jointed in the discussion on the geological and mining aspects of the proposal. Although Mr. Storms was ill he came to the office in the afternoon and had a chance to see Mr. Weeks for a few moments.

Although proving the ore reserves and passing on the mining methods and costs are important because of the small size of the deposit in relation to the loan requested, the proposal is largely a metallurgical problem. Success of a proposed operation is predicated upon two unusual features: (1) the manufacture of leaching strength acid by catalytic oxidation of SO_2 from roasting pyrite recovered from Tennessee mill tailing and from milling custom pyritic lead-zinc ores of the district; and (2) the production of about 75 percent of the leached copper as blue vitrol to carry the cost of the operation. The remaining copper would be recovered as cement. Mr. Weeks frankly admits that operation at Emerald Isle for cement copper alone would not be economic at present prices.

The idea of producing acid from roaster gas is reasonably certain of success. We have had considerable experience in acid-making and believe that leaching-strength acid can be made at a reasonable cost and in a relatively simple plant. Although some difficulties are bound to develop in a continuous operating plant, we are not too greatly worried about the soundness of this phase of his proposal.

The idea of producing copper sulfate from the leach liquors has merit. If it can be done at a reasonable cost and the crystals are not too contaminated by iron, alumina, zinc, arsenic, silica, et cetra, then Emerald Isle may be able to pay its own way for the first time. We are not yet ready to pass judgement on the merit of this idea. The laboratory work done by Dr. H.R. Hanley of the Missouri School of Mines was of a cursory nature and I seriously question some of the conclusions based on the beaker tests. The chemical engineering problem on impure solutions is somewhat involved, and more extensive tests will have to be made by a reputable laboratory before I am willing to recommend a $600,000 loan for a 500 ton per day plant. We will assemble such data as we can find and discuss the matter further with Mr. Weeks before submitting our report.

As Messrs. Storms and Anderson are busy on other dockets, we have tentatively set the week of March 26 to visit the Emerald Isle operation.

J. Bruce Clemmer

J. Bruce Clemmer

cc: JHEast, Jr. for A.H. Koschmann
WRStorms
CAnderson
SRZimmerley
DMA/374
DF

F. H. Koschmann
thru J H East

March 5, 1951

Memorandum — Air Mail

To : J.H. East, Jr., Denver, Colo.

From : J. Bruce Glassmar, Tucson, Ariz.

Subject : RMA Docket 374 - Emerald Isle Mine

Mr. G.F. Weeks spent several hours with us Tuesday, March 6, to explain and elaborate upon his proposal for copper production from Emerald Isle. Messrs. Anderson and Romslo jointed in the discussion on the geological and mining aspects of the proposal. Although Mr. Stoume was ill he came to the office in the afternoon and had a chance to see Mr. Weeks for a few moments.

Although proving the ore reserves and passing on the mining methods and costs are important because of the small size of the deposit in relation to the loan requested, the proposal is largely a metallurgical problem. Success of a proposed operation is predicated upon two unusual features: (1) the manufacture of leaching strength acid by catalytic oxidation of SO_2 from roasting pyrite recovered from Tennessee mill tailing and from milling custom pyritic lead-zinc ores of the district; and (2) the production of about 75 percent of the leached copper as blue vitrol to carry the cost of the operation. The remaining copper would be recovered as cement. Mr. Weeks frankly admits that operation at Emerald Isle for cement copper alone would not be economic at present prices.

The idea of producing acid from roaster gas is reasonably certain of success. We have had considerable experience in acid-making and believe that leaching-strength acid can be made at a reasonable cost and in a relatively simple plant. Although some difficulties are bound to develop in a continuous operating plant, we are not too greatly worried about the soundness of this phase of his proposal.

The idea of producing copper sulfate from the leach liquors has merit. If it can be done at a reasonable cost and the crystals are not too contaminated by iron, alumina, zinc, arsenic, silica, et cetra, then Emerald Isle may be able to pay its own way for the first time. We are not yet ready to pass judgement on the merit of this idea. The laboratory work done by Dr. H.R. Hanley of the Missouri School of Mines was of a cursory nature and I seriously question some of the conclusions based on the beaker tests. The chemical engineering problem on impure solutions is somewhat involved, and more extensive tests will have to be made by a reputable laboratory before I am willing to recommend a $600,000 loan for a 500 ton per day plant. We will assemble such data as we can find and discuss the matter further with Mr. Weeks before submitting our report.

As Messrs. Stones and Anderson are busy on other dockets, we have tentatively set the week of March 25 to visit the Emerald Isle operation.

Bruce Glesmer

cc: JHBank, Jr. for A.H. Kuehmann
WHBlume
CAnderson
SHHammerley
IMA/JJA
DF

DMH

1951

February 23, 1951

374

Mr. C.F. Weeks
Superintendent,
Emerald Isle Copper Co.,
Kingman, Arizona

Dear Cy:

Your preliminary application to the Defense Minerals Administration for development of the Emerald Isle property has been referred to us for consideration.

After reading the application we are still uncertain as to your plan of action, particularly as regards the metallurgy. As the plan will be reviewed by Mr. Walter R. Storms, Chief of the Arizona-New Mexico Mining Branch, and by Mr. Charles Anderson of the U.S. Geological Survey, as well as myself, may I suggest that you arrange to come to Tucson for a few hours of preliminary discussion of the application. The latter part of next week, or the week following would suit us as Mr. Storms and I will be in the field the first part of next week. If you will let us know a few days in advance we will ask Mr. Anderson to join us for the preliminary discussion and can then make plans for such field examinations as may be necessary.

With kind personal regards, I am

Sincerely yours,

J. Bruce Cleemer, Chief
Southwest Experiment Station

cc: WRStorms
Charles Anderson
JHEast, Jr.
DMA
DF

JBC

February 23, 1951

Mr. C. F. Weeks
Consulting Engineer
Kingman, Arizona

Dear Mr. Weeks:

This will acknowledge receipt of your letter dated February 20, 1951, in reference to your loan application Docket DMA-374.

Your application was referred to W. R. Storms, Chief, Arizona-New Mexico Mining Branch, on February 13, 1951. As soon as Mr. Storms has engineers available, he will contact you.

Sincerely yours,

J. H. East, Jr.
Regional Director

JHE:lm

cc: PT Allsman
WR Storms
DMA files

February 23, 1951

Memorandum

To: W. R. Storms, Tucson, Arizona

From: Regional Director, Region IV

Subject: DMA Docket 374 - Emerald Isle Mine

We are enclosing a copy of a letter from C. F. Weeks relative to Docket DMA 374. You will note that Mr. Weeks gives his telephone number at Kingman.

J. H. East, Jr.

J. H. East, Jr.

Enclosure

cc: PT Allman
DMA files

JHE:lm

CYRUS FOSS WEEKS
CONSULTING ENGINEER
KINGMAN, ARIZONA

REGIONAL DIRECTOR'S OFFICE
REGION IV
FEB 21 1951
BUREAU OF MINES
DENVER, COLORADO

February 20, 1951

Mr. J. H. East, Jr.,
Regional Director, Bureau of Mines,
New Customhouse Building,
Denver, Colo.

Dear Mr. East:-

(Re. Docket No. DMA-374)

Under date of February 1st, I have a letter from Mr. S. H. Williston, Director Supply Division, Defense Minerals Administration, stating that my application for a loan to complete treatment plant on the Emerald Isle copper property, has been reviewed and referred to your office for field study. Due to the condition of the mails, I presume there may have been some delay in your receipt of these documents, inasmuch as I have not heard from you to date.

As the weather is particularly agreeable at this time for outside work, and at this time of year hotel reservations are always available, I trust it will be possible for you to have your representative call on me at an early date. My Kingman phone number is Red-390.

Hoping to hear from you at your convenience, I am,

Very truly yours,

C. F. Weeks

CFW/ww

C. F. Weeks

February 13, 1951

Memorandum

To: W. R. Storms, Tucson

From: Chief, Mining Division

Subject: Docket DMA 374, C. W. Weeks loan application, ~~Emerald Isle~~ Mine

Herewith is a brochure presented by C. W. Weeks on the Emerald Isle Mine, Chloride, Arizona. Apparently Mr. Weeks is desirous of determining whether he has a chance of qualifying for a loan before going to the expense of making application.

I concur that Mr. Elsing probably should be assigned to master mind this investigation. Possibly with help from the Bureau and Survey. Mr. Weeks may be in a position to prepare applications without additional expense to him. We should be able to estimate the capital needed.

Mr. Glessner and Anderson have been requested to cooperate.

P. T. Allsman

Attachment

cc:

McMillan
DMA files
Allsman
WDH/el

February 9, 1951

Memorandum

To: J. Bruce Clemmer, Chief, Arizona-New Mexico Metallurgical Branch, Tucson

From: Field Team, DMA, Region IV

Subject: Loan application of C. W. Weeks, Docekt DMA 374

The loan application of Mr. Weeks has been forwarded to Messrs. Allsman and Anderson. Please cooperate with these men and make the necessary study of the proposed metallurgical process involved.

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Copies to:

Allsman (2)
Anderson (1)
DMA files
Zimmerley

JHE/c

February 9, 1951

Memorandum

To: P. T. Allsman, Chief, Mining Division, Denver

Charles Anderson, USGS, Tucson

From: Field Team, DMA, Region IV

Subject: Docket DMA 374, C. F. Weeks

We are attaching a loan application of C. F. Weeks, Kingman, Arizona, DMA 374. Also, a copy of a letter of instructions from the Operating Committee.

You will note that this application requires some unusual field studies, in addition to the geological and mining studies. We are writing J. Bruce Clemmer, Chief of the Arizona-New Mexico Metallurgical Branch, to make a study of the metallurgical features involved and submit a report in conjunction with the report of the Bureau of Mines and the Geological Survey.

In this connection, it appears to us that on this project, the service of the consultant, Mr. Elsing, could well be used. Assuming that he has no previous connection with the property, of course.

Please complete the required investigation as soon as possible. This report apparently is a preliminary report which should be gone into with considerable detail to enable the Operating Committee to answer the questions presented.

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Copies to -
Allsman (2)
Anderson (2)
Koschmann
DMA files
Clemmer

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

February 1, 1951

REGIONAL DIRECTOR'S OFFICE REGION IV
FEB 9 - 1951
BUREAU OF MINES
DENVER, COLORADO

Memorandum

To: Executive Officer, DMA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

From: Chairman, Copper Commodity Committee

Through: Operating Committee

Subject: Loan Application C. F. Weeks, DMA-374.

Transmitted herewith for investigation and report is an application by C. F. Weeks, Kingman, Arizona, for a loan of approximately $600,000 to complete the treatment plant on the Emerald Isle copper property, Mohave County, Arizona.

Mr. Weeks has submitted neither a formal loan application nor an application for a certificate of necessity for accelerated amortization, both of which will be necessary before final action can be taken. He has, however, presented unusually complete reports on the property and on the proposed treatment process, that appear to justify serious consideration of the project as an enonomical venture. He states, further, that he will, upon recommendation of DMA, obtain from reputable contractors a firm estimate of the cost.

The primary purpose of the requested field study would be to determine whether or not Mr. Weeks should be encouraged to go to the expense of obtaining the detailed cost estimates required, and presenting a complete description of the project. The Field Team could also check ore reserve estimates and obtain whatever local data may be needed for consideration of whatever proposal is finally submitted.

In this connection, it should be noted that a number of unusual features are presented, including the manufacture and marketing of copper sulphate, and the manufacture of acid from local sulphide mill tailings.

It is suggested the Field Team check the ore reserve estimate thoroughly, and discuss all other features of the project sufficiently with Mr. Weeks and with the staffs of the Bureau and Survey to enable you to recommend either a denial of the application, with reasons, or favorable consideration, upon which we would ask the applicant to submit formal applications and a fully detailed prospectus.

J. K. Richardson, Chairman
Copper Commodity Committee

Attachments

Approved:

Acting Chairman, Operating Committee

Member, Geological Survey

Member, Bureau of Mines

Copy to J. H. East, 224 New Customhouse, Denver 2, Colorado
L. F. Strobel
Copper Commodity Committee
F i l e s

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

February 1, 1951

Re: Docket No. DMA-374

Mr. C. F. Weeks

Kingman, Arizona

Dear Mr. Weeks:

Your preliminary application for a loan to complete the treatment plant on the Emerald Isle copper property has been reviewed, and is now being referred to the Defense Minerals Administration Field Team of Region IV for a field study. You may hear shortly from Mr. J. H. East, Jr., Executive Officer of the field team, regarding arrangements for conferring with you on the matter.

Very truly yours,

S. H. Williston, Director
Supply Division

CHJohnson:ba

Copy to J. H. East, Jr., 224 New Customhouse, Denver 2, Colorado
Mr. Strobel
Copper Commodity Committee
F i l e s

Form 6–98

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

U. S. GOVERNMENT PRINTING OFFICE 16—53493-2

W 8.12

DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

Mining Division
Date Rec'd.
MAR 25 1953

MAR 20 1953
BUREAU OF MINES
Denver, Colorado

Reconstruction Finance Corporation
811 Vermont Avenue
Washington 25, D. C.

Attention: Mr. S. A. Bingham

Re: DMPA-374
Commodity-Copper

Gentlemen:

It is requested that the application for a production loan in the amount of $605,000 of C. F. Weeks for the Emerald Isle Mine, Mohave County, Arizona be withdrawn since the applicant has made no endeavor in the last year to continue his quest for Government assistance.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Domestic Expansion Division

Copy to: Mr. C. H. Johnson, Bureau of Mines
Field Team, Region IV

DEFENSE MATERIALS PROCUREMENT AGENCY
WASHINGTON 25, D. C.

Mining Division
Date Rec'd
MAR 25 1953
BUREAU OF MINES
Denver, Colorado

MAR 20 1953

Reconstruction Finance Corporation
811 Vermont Avenue
Washington 25, D. C.

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Tom Lyon

Tom Lyon, Director
Domestic Expansion Division

Copy to: Mr. C. H. Johnson, Bureau of Mines
Field Team, Region IV

gfb