FILE COPY
700 SURNAME:

Schmidt
Ellis
Johnson
McKnight
Thayer
Hedges
Johnson

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

APR 3 1952

Miss Julia A. Irish
Pearl Development Chemical Co.
P.O. Box 77
Cave Creek, Arizona

Re: Docket No. [illegible]-1439
Copper, Manganese & Zinc,
Cave Creek, Maricopa County, Arizona

Dear Miss Irish:

Your application for aid for an exploration project located near Cave Creek, Maricopa County, Arizona, and docketed by this office as per the above, has been reviewed by this office.

Projects approved by the Defense Minerals Exploration Administration must in its judgement show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for National Defense.

A very careful study of your proposal reveals that the probability of discovering minerals reserves is not considered sufficiently promising to justify Government participation.

Under these circumstances your application for exploration aid under the terms of Title III, DMEA, is denied.

In the event that there are any further favorable developments to be reported, a re-examination of your application, by means consistent with this letter, will be considered.

Sincerely yours,

C. O. Mittendorf (for) 4/3

Acting Director
Defense Minerals Exploration
Administration

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

Schmidt/jem 3/31/52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GS
Ellis
Schmidt
Field Team, Region IV (2)

1439X

3/28/52

Commodity man	Survey	Nelson	for	denial	3/27/52
"	Bureau	C. Johnson		"	3/25/52
DM EA	Schmidt		"	"	3/20/52

3/28/57 gfa

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

March 27, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: DMA-1439X. Pearl Chemical Company, Cave Creek, Arizona

Comment

I concur in conclusions of Mr. C. H. Johnson, that application should be denied as the report of Mr. O. G. Engelder lends no support at all to the hopeful statements of the applicant. There is no reason for thinking a field team report would find differently.

N. E. Nelson

Ned E. Nelson
Geologist

March 27, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: [illegible]-1439X. Pearl Chemical Company, Cave Creek, Arizona

Comment

I concur in conclusions of Mr. C. H. Johnson, that application should be denied as the report of Mr. J. C. Engelder lends no support at all to the hopeful statements of the applicant. There is no reason for thinking a field team report would find differently.

N. E. Nelson

Ned E. Nelson
Geologist

3/26/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 25, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: Pearl Chemical Company, DMA-1439X, Knob Hill and Copper Top prospects, Cave Creek District, Maricopa County, Arizona

I recommend denial of the subject application on the following grounds:

1) Report of Engelder, prepared for and submitted by Applicant, states regarding the Know Hill, "It would thus appear that further exploration at this site is not warranted" and regarding the Copper Top,"From a study of the presently available areas (of oxidation and leaching) one must conclude that large orebodies are not to be anticipated."

2) Failure to submit lease.

3) Incompetence of Applicant, as instanced by statement of its general manager regarding "several millions of tons of copper assaying $30.00 per ton," etc.

The docket has been sent on to Mr. Nelson.

C. H. Johnson

C. H. Johnson

Copy to - Mr. Nelson (with docket
Mr. Keller
C. H. Johnson
Base Metals Branch
Files

3/25/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 25, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: Pearl Chemical Company, DMA-1439X, Knob Hill and Copper Top prospects, Cave Creek District, Maricopa County, Arizona

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3) Incompetence of Applicant, as instances by statement of its general manager regarding "several millions of tons of copper assaying $30.00 per ton," etc.

The docket has been sent on to Mr. Nelson.

C. H. JOHNSON

C. H. Johnson

Copy to - Mr. Nelson (with docket
Mr. ~~Keller~~ Schmidt
C. H. Johnson
Base Metals Branch
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 25, 1952

Memorandum

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Subject: Pearl Chemical Company, DMA-1439X, Knob Hill and Copper Top prospects, Cave Creek District, Maricopa County, Arizona

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The docket has been sent on to Mr. Nelson.

C. H. JOHNSON

C. H. Johnson

Copy to - Mr. Nelson (with docket)
Mr. Keller
C. H. Johnson
Base Metals Branch
Files

Memo by Schmidt 3/11/52

Pearl Chemical Development Corp. 1439 x Copper-Mn-talc-iron-and "other rare minerals"

$25,000 75% Government

Memo by Schmidt 3/20/52

Application made May 26, 1951

This application if considered should be changed to copper 50%

In the application the applicant says (9)"The company will have funds adequate to meet the requirements of the application a s indicated from present committments of purchase of stock of the company" this means that they do not have the money but hope to sell stock to have it when needed.

In the application (3)"A stock selling-money ra ising pla n ha s not yet been undertaken."

Applica nt (not owner) is supposed to have State leases and tries to palm off pospecting permits in lieu of leases

Gowen letter 9/14/51 acknowledges receipt of Lease on Copper Top No.1 which is correct but there are no leases for No. 2-3-4 and as the proposed work is on No.4 and the proposed work in the main shaft is on No 2 these lea ses should ha ve been provided long a go. In the letter from applicant 5/31/51 Q 6 It is intentionally worded to be deceptive. " Am enclosing the Prospecting Permits issued me from the State of Arizona on Copper Top cla ims 2-3-4 conprising 60 additiona l acres to the State Lease No 47417-S issued to me for 20 years dated Sep 17,1950 ma king 80 acres in all." These prospecting permits hereiwith lumped with the lease to make 80 acres are good, for 90 days from Jan. 11 a nd 16,1951 The statement "60 additiona l acres" is intended to create the idea that they are all in the same category.

Applicants letter 3/6/52 says "However the workings now on the ground are covered by Copper Top 1 ad 3" This is not the case, see map . The wrkings are on Copper Top 2 and somewhat on No.4 a nd also ~~Bryx Wash~~ Pea rl 12.

To da te copies of the leases have not been provided on any ground other than the No.1 Applicant in 3/6/52 says tha t photosta tic copies of leases on 2-3-4-5-6-7-8 can be provided. Where are they. They have been asked for.

Q 24 on separate sh[illegible] says "As there are 14 openings [illegible] copper "on #2 a bout 2 weeks work on each of these. There are believed to be two more large bodies crossing tge property each side of the present openings. These should be checked"
These lea ses should have been sent to us long a go see letter 9/4/51

~~[illegible]~~

In application q ~~x~~ Q 7 "Comp lete releases are not available but will be obtained from the State of Arizona and will be ready to attatch to such contradt." Q 5 "We feel that there will be no difficulty in obtaining proper relea ses from the State of Arizona."
To date there is only the statement on a map reading 160 acres being the N.W. 1/4 of Sec 36 T 6 N R 3 E, 20 year State Leases.

Application Q 9 "Corporation and its backers as stated above have devoted considerable funds already in the hope of being able to complete the exploration and development work without recourse to outside funds. This it seems is not possible, but the corporation is assured of considerable cash when needed provided this Federal Aid is granted." From the report of Engelder there is no evidence of a ny exploration or development work having been done by this corporation.

The map showing the p roposed exploration work consists of wide bands 180 ft wide, Are they bulldozer cuts to bed rock?

The estimate of costs of 5/31/51 has no connection with anything else.
What work is it supposed to do? ~~[illegible]~~ some of it is to repair a shaft.
The answer to Q 21 in application
Proposed work "is exploration of old working where deposits are known ~~or~~ believed to exist, exploration and opening of new deposits known or believed to exist."
~~This is the only statement of the proposed exploration~~

Q 18 Ore Reserves. "Applicants memroy ~~weves~~ serves to indicate several million tons of copper assaying in the neighborhood of $30.00 per ton, net to company $20.00" ~~xxxxxxxxxxxxxxxxxx~~ No substantiating data. for this extraodrina ry statement.

~~2/6/52~~ 2/6/52 This office gave her until March 1 to supply the data requested in letter of 9/15/51 by Gowen.

3/6 Applicant sends report by engineer Engelder who is the applicants engineer He says there are two showings worth looking into, Knob Hill ~~xxxxxx~~ and Copper Top.

Knob Hill he reports "All of which is indicative of a very limited area of mineralization both horizontally and in depth. It would thus appear that further exploration at this site is not warranted." We will dismiss that.

Copper Top He reports

"Much of the 1200 ft of the zone is barren of all mineralization, although the zone can be traced on the surface. The wi dth of the zone varies from 4 ft to practically only a a slight evidence of its presence."

" The area of oxidation and leaching are not extensive, and the original copper content of the primary ore is unknown."

"From a study of the presently available areas, one must conclude that large orebodies at depth are not to be anticipated."

~~"It should be stressed that no official ore production records are at present available Any data relative to tonnage and grade of ore mined would be a n important factor in arriving at a final decision on future activities."~~

~~"Every effort has been made to obtain such data, but it is not available."~~

~~"Even if it whoud indicate only a small tonnage of commercial ore mined at any point below the tunnel level, one could feel justified in initiating an exploration program, the first step of which would involve the recondition ing and dewatering of the main sha ft."~~

~~This would mean that in the absence of data of producgion that an exploration program would not have a leg to stand on.~~ according to Engelder.

The only work he figures on, is cleaning out the shaft and unwatering it. This is the type of p roject that is frowned down on, unless there is some special reason to overcome the natural objections, a nd in this case we have no such special reasons as past p roduction, geological evidence- assay values. good goasan etc.

There are no assays given by the applicant or by Engelder.

~~This is not one geological data~~

The applicant is unskilled and dilatory and uses misleading language which arouses ones suspicions, which suspicions are justified by the discrepancy between the description of the applicant and the engineer Engelder.

The only data submitted that has any evidence of being reliable is the report of Engelder and it fails to work out a case that would justify an exploration project.

I can see no justification for the project and hence recommend denial.

Sec 36 Sec 25 Sec 35

SEC. 36 T. 6 N R. 3 E.

Maricopa Co. Arizona.

Copper Top 1	Copper Top 3	Copper Top 5	Copper Top 7				
Copper Top 2	Copper Top 4	Copper Top 6	Copper Top 8				

36

SCALE 1" = 1000'

ABSTRACTED _____ AREA _____

PLAT OF SURVEY FILED _____

160 acres, being the N.W. 1/4 of Sec. 36 T6N. R. 3 E.

20 yr. ~~State~~ Leases.

Pearl Chemical Development Corp.
Box - 77 - Cave Creek, Arizona.

FORM 991

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND
RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND
GENERAL MANAGER

March 4, 1952.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1952

APACHE "Nature's Oasis"

VIA AIR MAIL

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration.

Re: Docket No. DMA-1439X
(Copper, Manga nese, Talc)
Cave Creek, Maricopa Co. Arizona .

Dear Mr. Ellis:-

Your letter of Feb. 25th, received, and we appreciate your prompt reply, extending our time for completing our report to your office regarding above Docket No.

Enclosed find REPORT on PEARL CHEMICAL DEVELOPMENT CORPORATION.

Made by Oscar G. Engelder, Registered Mining Engineer.

We hope this will reveal the information needed to comply with the loan asked.

The enclosed map shows the area of our Copper Top 20 year leases.

* However, the workings now on the ground are covered by Copper Top 1 and ~~3.~~ (3)

If it is necessary to send your office photostatic copies of these leases on Nos. 2,3,4,5,6, 7,8, we can do so. Probably this will not be necessary.

Thanking you for your kind consideration for the extended time to March 15th,

we remain,

Respectfully,

PEARL CHEMICAL DEVELOPMENT CORPORATION.

By Lelia P. Irish
President and Secretary.

Note - the workings are not covered by Copper Tops 1 + 3 but 2 + 4
Schmidt

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Memo Schmidt

Miss Lelia P. Irish
Pearl Chemical Development Corp.
P.O. Box 77
Cave Creek, Arizona.

Re;Docket DMA 1439 X
(Copper, Manganese, Talc)
Cave Creek , Maricopa County, Arizona

7/8/52

Dear Miss Irish:

A review ~~of the file~~ of your application ~~dated~~ of May 26, 1951 for a $25,000 exploration contract, ~~shows~~ reveals that a letter dated Sept. 14 1951, by Mr. J.B.Gowan of the former Geology Division of DMA ~~dated Sep. 14, 1951~~ ~~asks for some specified~~ requests additional information ~~to help~~ necessary to process ing your application.

Your letter of Sep. 21, 1951 acknowledges receipt and promises to send the additional data " very shortly". Nothing further has been received from you and we are forced to assume that you no longer ~~wish~~ desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time but if the needed data has not been received by March 1,1952 we will then consider the docket closed.

Sincerely

Ellis

Note- No definite plan of exploration proposed-no costs estimates- no time of completion nor type of work-no geological data to justify the work
Many pits shown but no assays to indicate the type or grade of ore that might be expected. No dump samples The land leases from State of Ariz had not all been obtained . It is claimed they have 3,000,000 tons of $30 ore. Government participation 75% Their share would be $6,250 This might be thr trouble.

Schmidt

700 FILE COPY
SURNAME:

Schmidt
Ellis
Nutt

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

FEB 25 1952

Miss Lelia P. Irish
Pearl Chemical Development Corp.
P.O. Box 77
Cave Creek, Arizona

Re: Docket No. [illegible]-1439
(Copper, Manganese, Talc)
Cave Creek, Maricopa Co., Arizona

Dear Miss Irish:

This refers to our letter of February 16, 1952, requesting more time in which to provide the data mentioned in our letter of February 5th.

It appears from your letter that you are making efforts to comply with our request. Accordingly we will be glad to extend this time to March 15th for the final completion of your application.

We hope this extension of 15 days will answer your purpose.

Sincerely yours

[illegible] 2/25

Ernest W. Ellis, Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

RSchmidt/jem
2/21/52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Schmidt
Field Team, Region IV (2)

2/20/52 gla

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND
RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND
GENERAL MANAGER

Feb. 16, 1952.

Ernest Wm. Ellis, Acting Chief,
Rare and Misc. Metals Division
Defense Minerals Exploration Administration,
Washington-25-D. C.

Re: Docket No. DMA-1439X
(Copper, Manganese, Talc)
Cave Creek, Maricopa Co.
Arizona.

Dear Mr. Ellis:-

Your letter dated Feb. 6th, 1952. is before me. Having been over in California for the past two weeks, I will now reply to your inquiry.

In my letter of Sept. 21st, saying additional data would be forth coming "very shortly", I had expected to be able to furnish the data requested to complete our application for a loan, as per above Number.

Since then, various delays have prevented my sending the required data, and we hope to do our part just as soon as certain parties arrive here from the East. Part of the work has been accomplished, and ready to send you a Report, but it will be necessary to ask your department for additional time, in case this cannot be in your office by March 1st, 1952, as you mention.

We appreciate your willingness to cooperate in the matter of allowing us more time to complete our Application.

Sincerely,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish.
President and Secretary.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1952

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700

FILE COPY
SURNAME:

Schmidt
Ellis
Cornett

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

AIR MAIL

FEB 6 1952

Miss Lelia P. Irish
Pearl Chemical Development Corp.
P. O. Box 77
Cave Creek, Arizona

Re: Docket No. DMA-1439X
(Copper, Manganese, Talc)
Cave Creek, Maricopa County, Arizona

Dear Miss Irish:

A review of your application of May 26, 1951, for a $25,000 exploration contract reveals that a letter dated September 15, 1951, by Mr. J. B. Cowen of the former Supply Division of DMA requests additional information necessary to process your application.

Your letter of September 21, 1951, acknowledged receipt and promised to send the additional data "very shortly." Nothing further has been received from you and we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by March 1, 1952, we will then consider the docket closed.

Sincerely yours,

Ernest Wm. Ellis, Acting Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

FSSchmidt/gla 2-5-52
cc to: Adm. Reading File
2-6-52 Docket
J.D. Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Schmidt
Regional Office IV, (2)

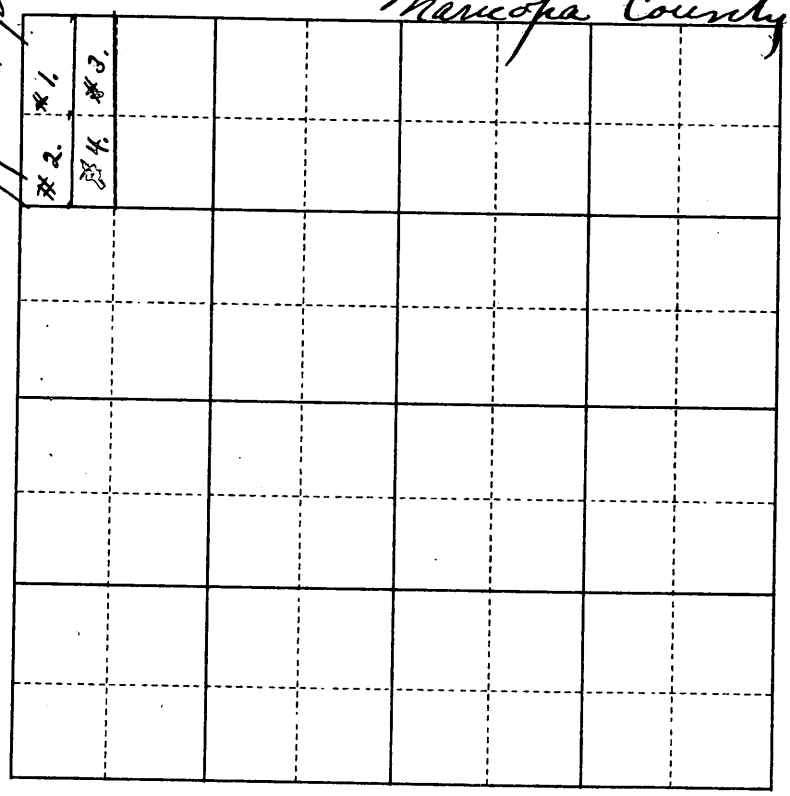
Arizona State Land.

Sec. 36

T 6 N R 3 E.

Maricopa County.

"Copper Top"



Abstracted _____ Area 80 acres

Plat of Survey Filed _____

Copper Top #1. W½NW¼NW¼ #2. W½SW¼NW¼ :

#3. E½NW¼NW¼: #4. / E½SW¼NW¼:

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77

CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND
RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND
GENERAL MANAGER

APACHE
Nature's Own

Sept. 21, 1951.

Re: Docket No. DMA 1439X

J.B.Gowen, Chief,
Copper Branch,
U.S.Dept. of the Interior,
Defense Minerals Administration,
Washington-25-D. C.

Dear Mr. Gowen:-

Your letter of the 17th. received. Glad you located my papers sent your office May 31st.

In regards to the additional request for data, as per your letter, this will be sent your office very shortly.

Thanks for your serious consideration of our application.

Yours truly,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish President.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 26 8 47 AM '51

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FILE COPY
SURNAME:

DMA Docket
JWaugh

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

9-14

Miss Lelia P. Irish
Pearl Chemical Development Corp.
P. O. Box 77
Cave Creek, Arizona

Re: Docket No. DMA 1439X

Dear Miss Irish:

This is to acknowledge your letter of September 4, 1951 answering our questions.

There was a slight misunderstanding about your mineral lease to Copper Top No. 1 and we note that this lease is present. With reference to the Copper Top Nos. 2, 3 and 4, however, the regulations require that if applicant is not the owner, then his lease must run for a sufficient length of time to provide a substantial productive period in case ore is developed by the exploration project. It is not intended that Government exploration funds shall be used to locate mining claims.

It is required in the regulations that a definite exploration program be submitted in order to qualify for Government assistance. Work proposed should be described in detail showing just what is to be done, footage, direction, dimensions, etc. and the time required for completion. A map should accompany this description showing exactly where this work is to be done. In question 24 on your supplementary sheet you state that work will be done on Copper Top No. 2, and on the orebodies believed to exist on either side of the present openings but you have not indicated the type or amount of work which you propose to do, nor the itemized cost of such work. It is also necessary to submit sufficient geological evidence as requested under item 22 to justify exploration work at any given point. Many pits and openings are shown on your map but there is no actual geological or assay evidence to indicate the type or grade of ore which might be expected. Authentic dump samples would help in this respect.

It is necessary that the requested information be supplied before a Field Team investigation can be justified.

Very truly yours,

not stripped in RKP.

J. B. Gowen, Chief
Copper Branch

RWaugh:JBGowen:pk
9/14/51
Copy to: Adm. Reading File
Copper Branch

Executive Officer, Region IV
Files-DMA Docket

310

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND GENERAL MANAGER

September 4, 1951.

Mr. J. B. Gowen, Chief,
Copper Branch,
Defense Minerals Administration,
U.S. Department of the Interior,
Washington-25-D. C.

RE- Docket No. DMA-1439X.

Dear Mr. Gowen:-

Your letter of Aug. 31st. just received. No doubt by now, you have my letter dated Sept. 1st. to Landon F. Strobel, Executive Secretary, asking for information regarding our application for Loan on Copper Top State Lease.

Your Form MF-103 also received, and I have signed same, answering the 3 items circled in red pencil, as missing from Mr. Hann's application. Altho my additional report covers these point, this may assist you.

1. (a) You have a certified copy of my lease from the State of Arizona covering 20 acres Copper Top No. 1, I did not send 4 copies, only one. This lease is paid for up to Sept. 18, 1952, as I have mailed the annual rental to them, as of Sept. 1st. Therefore this lease is in good standing.No-47417-S.

Likewise, I have renewed Prospecting Permits for the 3 other leases adjoining, which will be acquired by lease before Oct. 25rd, 1951. or same can be extended.

3-Answered in Q 23 and 24. previous form.

4- Note No. 22, under date of May 31, 1951 : " Enclosed find sketch of old working on Copper Top 1-2-3-4, also proposed work.

If you need additional data, please advise.

Respectfully yours,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish President & Secretary.

COPYRIGHT 1937 APACHE PRODUCTS

Miss Lelia P. Irish
Pearl Chemical Development Corp.
P. O. Box 77
Cave Creek, Arizona

Re: Docket No. DMA 1439X

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It is necessary that the requested information be supplied before a Field Team investigation can be justified.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

BVanSchlemmer:
9/14/51
Copy to: Adm. Reading File
Copper Branch

Executive Officer, Region IV
Files-DMA Docket

PEARL CHEMICAL DEVELOPMENT CORPORATION

September 4, 1951

Mr. J. E. Gowen, Chief,
Copper Branch,
Defense Minerals Administration,
U. S. Department of the Interior,
Washington-25-D.C.

Re: Docket No. DMA-1439X

Dear Mr. Gowen: -

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If you need additional data, please advise.

Respectfully yours,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish President & Secretary.

COPY

FILE COPY
SURNAME:

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

RWaught
Gowen

G. S.

Pearl Chemical Development Corporation
P. O. Box 77
Cave Creek, Arizona

Re: Docket DMA 1439X

Gentlemen:

This is to acknowledge your letter of September 1, 1951 requesting the status of your application.

It is evident that my letter of August 30, 1951 crossed in the mails with your letter of September 1, 1951.

It is concluded from reading your letter that the additional information you were sending as mentioned in your application of May 26, 1951 was submitted on May 31, 1951. As stated in my letter of the 30th of August, we need the requested information to fully process your application.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

RWaught:pk
9/7/51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team IV
Copper Branch
Files-DMA Docket

318

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND
RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND
GENERAL MANAGER

September 1, 1951.

Defense Minerals Administration,
U.S.Department of the Interior,
Washington-25-D. C.

Re- DMA-1439X.

Dear Sir:-

Attention- Landon F. Strobel,
Executive Secretary.

Will you please let us know what progress has been made toward the granting of Exploration Loan on Copper Top, as per our application DMA-1439X.

June 14th, you acknowledge receipt of application and attachments of May 26, 1951, from J. Roberts Hann, First Vice President of our corporation. May 31, 1951, I sent your office additional data from here, as Mr. Hann did not have this information with him at time he sent the application. I presume your office received all these papers as I hold Registered Article Receipt No. 7722, insured parcel for same.

As you say this application was referred to Mr. J.B.Gowen, Chief, Copper Branch on June 4th, 1951, we will appreciate the granting of this loan as soon as possible, as our miners are very anxious to get started with the work, and as good foremen and miners are scarce nowadays, we do not want to lose our men. We already have part of the equipment on the grounds.

Thanks for your prompt attention, we remain,

Respectfully yours,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish President & Secy.

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DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
SEP 4 2 25 PM '51

Copy

Pearl Chemical Development Corporation
P. O. Box 77
Cave Creek, Arizona

Re: Docket DMA 1439X

Gentlemen:

This is to acknowledge your letter of September 1, 1951 requesting the status of your application.

It is evident that my letter of August 30, 1951 crossed in the mails with your letter of September 1, 1951.

It is concluded from reading your letter that the additional information you were sending as mentioned in your application of May 26, 1951 was submitted on May 31, 1951. As stated in my letter of the 30th of August, we need the requested information to fully process your application.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

RYW:ugnipk
9/7/51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team IV
Copper Branch
Files-DMA Docket

PEARL CHEMICAL DEVELOPEMENT CORPORATION

APACHE PARK

P.O. Box 77

Cave Creek, Arizona

September 1, 1951.

Defense Minerals Administration,
U. S. Department of the Interior,
Washington-25-D.C.

Re- DMA 1439X

Attention Landon F. Strobel,
Executive Secretary

Dear Sir:-

Will you please let us know what progress has been made toward the granting of Exploration Loan on Copper Top, as per our application DMA 1439.

June 14th, you acknowledge receipt of application and attachments of May 26, 1951, from J. Roberts Hann, First Vice President of our corporation. May 31, 1951, I sent your office additional data from here, as Mr. Hann did not have this information with him at time he sent the application. I presume your office received all these papers as I hold Registered Article Receipt No. 7722, insured parcel for same.

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Thanks for your prompt attention, we remain.

Respectfully yours,

PEARL CHEMICAL DEVELOPMENT CORPORATION

By /s/ Lelia P. Irish President & Secy.

C O P Y

310

FILE COPY
SURNAME:

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

a.s.c. - Waugh

Pearl Chemical Development Corp.
Post Office Box 77
Cave Creek, Arizona

Re: Docket No. DMA-1439X

Gentlemen:

We are holding your application pending the receipt of further information and maps stated in your application submitted last May as being forwarded in a short time.

In going over the material already submitted it is noted that more information is needed in order to complete your application. These questions as marked on the enclosed Form DM-103 should be answered completely as possible.

Very truly yours,

J. B. Gowen

not stripped in R. + R.

J. B. Gowen, Chief
Copper Branch

Enclosure

RVWaugh:ez
8/20/51
Copy to: Adm. Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

6/5/51

Defense Minerals Administration 6-28-51

Review of Application for Exploration Assistance

Docket No. 1439X

Commodity COPPER, MANGANESE

Total Amount $25,000.00

Govt. Participation 75%

1. Name and Address of Applicant PEARL CHEMICAL DEVELOPMENT CORP. POST OFFICE BOX 77, CAVE CREEK, ARIZONA.

2. Location of Property W½ - ½ NW ¼ NW ¼ SEC. 36 T6N R3E - S.R.B.&M., MARICOPA COUNTY, ARIZONA. CAVE CREEK MINING AREA, 30 MILES N.E. PHEONIX ARIZ.

3. Mineral or metal COPPER-MANGANESE Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES SUB-LESSEE
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? YES except for Copper Top Claim

Does the lease have sufficient time to run to cover a future productive period? YES

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES

a) MF-201? _____

b) MF-202 YES

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower PROBABLY

b) Equipment and supplies To be purchased
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES ✓

e) Power (question 13)* SEE 8a.

Is a field check needed on any of these points? YES

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* YES

Is a field check needed on this point? No

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? YES - in general If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? There is a map but it is not sufficiently complete

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? YES

If not, what part of it is? —

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? YES

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? YES

f) Should more information be requested from applicant? YES

g) Is a field examination necessary to complete Exhibit A? No

11. Exhibit B (question 23-d)*

a) Is it applicable? YES

b) If so, are sufficient data furnished? YES If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? YES

b) Sufficient data? YES If so, attach a draft.

c) Are rents and charges reasonable? No TRUCK & JEEP TO MUCH

d) Is a field check needed? No

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? CAN'T TELL

c) Is the schedule excessive for the work proposed? " "

d) Are the proposed wages and salaries reasonable? TO MANY HIGH SALARIED PEOPLE

e) Is a field check needed? No

EXHIBIT A (21-22)

Applicant proposes to explore old working where deposits are known or believed to exist and to explore and open new deposits known or believed to exist.

LABOR	
ONE MILLWRIGHT & HOIST ENGINEER, MECHANIC & PIPE FITTER	$2.00/HOUR
TWO MINERS	10.00/DAY
TWO LABORERS OR MUCKERS	8.00/DAY
SUPERINTENDENT & GEN. FORMAN	$400.00/MONTH
GENERAL MANAGER	400/MONTH
SECRETARY & AUDITOR	400/MONTH
ASSAY CHEMIST	2.00/HOUR
REPAIR & RETIMBER SHAFT (LABOR) 3 MEN - 30 DAYS	$860.00
MATERIAL FOR REPAIR & RETIMBER SHAFT	3000.00
MACHINERY	9950.00
SMALL EQUIPMENT	150.00
EXHIBIT B (23-d) SMALL SHED FOR ASSAY OFFICE	$300.00

EXHIBIT C (23 e f g)	NEW	USED
1 105 CUFT. GAS DRIVEN PORTABLE AIR COMPRESSOR	$3366.00	1800.00
2 JACK HAMMERS 50 lb. WET TYPE @ $345.00	690.00	450.00
DRILL STEEL (18-120")	100.00	
DRILL BITTS 1-1/4 & 1 3/8	50.00	
AIR HOSE (2-50 ft. LENGTH) & FITTINGS	100.00	
WATER HOSE (2-50 ft LENGTHS) & FITTINGS	50.00	

f. Some machinery listed above may be rented

g. RENTAL OF OWNERS EQUIPMENT INCLUDING INSURANCE BUT NOT GAS & OIL.

FOR 2 TON TRUCK	$25.00 / DAY
WORKING JEEP & LOADER	16.00 "
FARM-O-ROAD	5.00 "
1000 GAL. WATER TANK IN SKIDS	3.00 "
CROSLEY SERVICE CAR	5.00 "
ELECTRIC POWER PLANT - 3000 WATT	3.00 "
2 WHEEL BOX TRAILER	2.00 "

14. Exhibit E (question 23-c)*

a) Is it applicable? YES

b) Sufficient data? YES

c) Reasonable? PROBABLY

d) Field check needed? NO

15. In your judgment, can the proposed work be done in the proposed time? CAN'T TELL PROJECT NOT OUTLINED WELL ENOUGH

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Fill in the missing questions especially a detailed account of project.

Reviewed by: [illegible]

[illegible]

Date 28 June 51

6/5/51

Defense Minerals Administration 6-28-51

Review of Application for Exploration Assistance

Docket No. 1439X

Commodity COPPER, MANGANESE

Total Amount $25,000.00

Govt. Participation 75%

1. Name and Address of Applicant PEARL CHEMICAL DEVELOPMENT CORP. POST OFFICE BOX 77, CAVE CREEK ARIZONA

2. Location of Property WEST 1/2 NW 1/4 NW 1/4 SEC 36 T6N R3E - SRB&M, MARICOPA COUNTY, ARIZONA CAVE CREEK MINING AREA, 30 MILES N.E PHOENIX ARIZ.

3. Mineral or metal COPPER-MANGANESE Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination

e) Is there an alternative and favorable project? (If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES SUB-LESSEE (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? YES except for Copper Top claim #1

Does the lease have sufficient time to run to cover a future productive period? YES

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? _____

b) MF-202 Yes

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Probably ~~He does not consider this project to answer this~~

b) Equipment and supplies ~~Does not list equipment~~ To be purchased.
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* See 8a.

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? No

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? ~~Yes~~ Yes - in general If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? ~~No~~ Yes there is a map but it is not sufficiently complete.

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? —

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? YES

f) Should more information be requested from applicant? YES

g) Is a field examination necessary to complete Exhibit A? No

11. Exhibit B (question 23-d)*

a) Is it applicable? ~~DOES NOT LIST COSTS~~ YES

b) If so, are sufficient data furnished? ~~No~~ YES If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? ~~DOES NOT LIST~~ YES

b) Sufficient data? ~~No~~ YES If so, attach a draft.

c) Are rents and charges reasonable? No TRUCK & JEEP TO HIGH

d) Is a field check needed? No

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? ~~No~~ YES

b) Is the schedule adequate for the work proposed? CAN'T TELL

c) Is the schedule excessive for the work proposed? " "

d) Are the proposed wages and salaries reasonable? TO MANY HIGH SALARIED PEOPLE

e) Is a field check needed? No

EXHIBIT A (2[illegible])

Applicant proposes to explore and develop the property in accordance with the following schedule and budget.

LABOR

[illegible] Management, Mine Engineer, Mechanic, Pipe Fitter	$3.00/HOUR
Two Miners	10.00/DAY
Two Loaders or Muckers	8.00/DAY
Superintendent & Gen. Foreman	400.00/MONTH
General Manager	400/MONTH
Secretary & Auditor	400/MONTH
Assayer & Metallurgist	2.00/HOUR
Timber & Timber Shaft (Labor) Within 30 Days	$500.00
Material for Timber & Timber Shaft	3000.00
Air Compressor	1150.00
Small Equipment	150.00
EXHIBIT B (23-d) Small Shed for Assay Office	$200.00

EXHIBIT C (23-f-g)	New	Used
1 [illegible] Cu Ft Gas Driven Portable Air Compressor	$3360.00	1500.00
2 Air Drillers 50 lb Ingersoll Type @ $345.00	690.00	450.00
Drill Steel (15-120")	400.00	
Drill Bits 1-1/4 & 1 1/8	50.00	
Air Hose (2-50 ft Lengths) & Fittings	100.00	
Water Hose (2-50 ft Lengths) & Fittings	50.00	
Air Pipe 1 1/4" - 200 ft	100.00	
1 2 Drum Hoist Gasoline Driven	700.00	550.00
7/8" - 1/2" Steel Hoist Cable 1000 ft	500.00	
1 Set Used Assay Equipment Scales, Grinder, Crucibles (Furnace Burners & Gas) Crucibles		
Lab Equipment	800.00	
Timber for Shaft Reinforcement Lagging		
At $10 ft.	3000.00	
Timber for Head Frame (Small)	150.00	
Nails & Tools	100.00	
Hose Dust Pipe Pick Drills etc	250.00	
Total	$9756.00	

f. Any machinery listed above may be rented

g. RENTAL OF OWNERS EQUIPMENT INCLUDING INSURANCE BUT NOT GAS & OIL

FOR 2 TON TRUCK	$25.00 / DAY
WORKING JEEP & LOADER	11 " "
FARM-O-ROAD	5 " "
1100 GAL WATER TANK ON SKIDS	3 " "
CROSLEY SERVICE CAR	5 " "
FLEXIBLE POWER PLANT - 3000 WATT	2 " "
2 WHEEL BOX TRAILER	2 " "

14. Exhibit E (question 23-c)*

a) Is it applicable? YES

b) Sufficient data? YES

c) Reasonable? PROBABLY

d) Field check needed? NO

15. In your judgment, can the proposed work be done in the proposed time? CAN'T TELL PROJECT NOT OUTLINED WELL ENOUGH

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Fill in the missing geologic sequence, a detailed account of project.

Reviewed by: [illegible]

[illegible]

Date 26 January 51

97692

FILE COPY
SURNAME:

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

June 14, 1951

Mr. J. Roberts Hann
Vice President
Pearl Chemical Development Corp.
P. O. Box 77
Cave Creek, Arizona

Subject: DMA-1439X
Re: Exploration Loan
Copper Top

My dear Mr. Hann:

Receipt is acknowledged of your application and attachments of May 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1439X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on June 4, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1439X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Gowen
Lyon

Chas A. Diehl,
Arizona Assay Office, Phone-3-4001
815 N. 1st St.m Phoenix, Ariz.

No. 856 Mc

Jan. 4, 1951.

This certifies that samples submitted for assay by Dr. J.F.MacNeil, Cave Creek, Ariz contain as follows per ton of 2000 lbs. Avoir.

	Silver	Gold	Value	Copper %
Average ore	----------	oz. .02	$.70	5.70

Mine water --- 12 parts per 100 Million.

This should not interfere with plant growth but a test should on some plant or plants before proceeding too far.
Would suggest taking a soil sample to the County Agricultural Agent, at 1201 W. Madison St.m Phoenix.

Technical Bulletin 117- University of Arizona, College of Agriculture, Agricultural Experiment Station contains some good ideas.

Signed, C.A.D. Assayer,
Assay Office.

1 Gold Copper assay 2.25
1 Copper micro test 2.00
4.25

Defense Mine[illegible] Admi[illegible]tration

PEARL CHEMICAL DEVELOPMENT CORPORATION

Box 77, Cave Creek, Arizona.

May 31, 1951.

COPY- letter from UNIVERSITY OF ARIZONA, TUCSON, Arizona.

College of Agriculture and
Agricultural Experiment Station

Mr. J. H. O'Dell,
County Agricultural Agent,
Phoenix, Arizona.

March 2, 1951.

Dear Mr. O'Dell:

The WATER for Jack Hann, Phoenix, has been analyzed and the alkaline salt content expressed as parts per million, appear below:

Laboratory No.	C-2484
Description	Cave Creek
Total soluble salt	725
Calcium	98
Magnesium	38
Total hardness (calculated as calcium carbonate)	398
Fluoride	0.2

Signed
Geo. E. Draper.

DMA - 1439 X

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND GENERAL MANAGER

Registered 197

May 31, 1951.

JUN 7 - 1951
Executive Secretary

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

RE: APPLICATION FOR AID FOR AN EXPLORATION PROJECT, FILED BY PEARL CHEMICAL DEVELOPMENT CORPORATION, CAVE CREEK, ARIZONA. 5/26/51.

GENTLEMEN:-

In our formal application under this title, filed by our First Vice-President and General Manager, mailed by him from Bismarck, North Dakota, you were advised that certain information would come by early communication from our Home Office. We take pleasure in handing you herewith answers to the following questions on Form MF 103 which he could not give you at time of filing:-

6-7-18-22 are covered by letter attached herewith.

23.

(a) One Millwright & Hoist Engineer)
Mechanic & Pipe Fitter) $ 2.00 per hour
Two miners - - - - - - - - - - - - - - - - - - $10.00 per Day
Two laborers or muckers - - - - - - - - - - 8.00 " "

(b) Superintendent & Gen. Forman $400.00 per mo.
General Manager - - - - - - - 400.00 " "
Secretary & Auditor - - - - - 400.00 " "
Assay Chemist - - - $2.00 per hour.

(c) Repair and re-timber shaft- Material - - - - - $3000.00
Labor-3 men 30 days - - - - - - - - - - - - - - - 800.00

(d) Cannot estimate as required.

(e) See Machinery List - - - - - - - - - - - - - - - 9950.00

(f) Some of the machinery listed as new may be rented IF available)

(g) See other sheet, itemized.

(h) Small items too numerous to mention,
shovels, picks, survey equipment, etc. - - - 150.00

(i) No utilities available. Gasoline and Butane will be used.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
Postmarked June 6-1951
JUN 7 - 1951
LANDON F. STROBEL
Executive Secretary

24.

As there are 14 openings on Copper Top #2, about 2 weeks' work on each of these. There are believed to be two more large bodies crossing the property each side of the present openings. These should be thoroughly checked in about 7 (seven) months. All of the above is very accessable, and can be worked with speed with the prsent equipment and the machinery listed in No. 23.

(e) and (g) on next sheet.

Pearl Chemical Development Corporation
By Lelia P. Irish

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23. Continued.

(e) Machinery now needed

	Estimated Prices or Approximate New	Used
105 cu.ft. Gas driven portable Air Compressor	$ 3366.00	$ 1800.00
2 Jack hammers 50 lb. Wet type at $345.00	690.00	450.00
Drill steel from 18 inch to 120 inch ----------	100.00	
Drill bitts 1-1/4and 1-3/8 - - - - - - - - - - - -	50.00	
Air Hose (2- 50 ft. lengths) and fittings - - - - -	100.00	
Water hose(2- 50 ft. lengths) and fittings - -v-v-	50.00	
Air Pipe 1-1/4 inch -- 200 feet.- - - - - - - - - - -	100.00	
1- 2drum hoist, gasoline driven - - - - - - - - - - - -	700.00	350.00
3/8 in. or 1/2 in. steel hoist cable --700 feet----	300.00	
1 set used assay equipment -scales, grinder, crusher, (furnace-Butane gas) crucibles-Laboratory equipment-	800.00	
Timbers for shaft replacement and lagging at $15.00 ft.	3000.00	
Timber for head frame (small) - ~~boltsxandxrodsx~~- - - -	150.00	
Bolts and rods -	100.00	
Misc. Tools-Dies-Pipe dies- Drills-etc. - - - - - - - - - - - -	250.00	
Small shed for Assay Office - - - - - - - - - - - - - - -	200.00	
	$ 9950.00	

23-(g) Rental value of our equipment including Insurance, but no gas-no oil.

Ford 2 ton truck at ~~$25x00xperxday~~	$ 25.00	per day
Working Jeep and loader - - - - - - - -	16.00	" "
Farm-O-Road - - - - - - - - - - - - - - - -	5.00	" "
1000 gal. Water Tank on skids - - - -	3.00	" "
Crosley Service Car - - - - - - - -	5.00	" "
Electric Power Plant-3000 Watt- - - -	2.00	" "
2 wheel box trailer - - - - - - - - - -	2.00	" "

- -

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish

President and Secretary.

4 copies

Defense Minerals Administration

PEARL CHEMICAL DEVELOPMENT CORPORATION

Box 77, Cave Creek, Arizona.

May 31, 1951.

COPY- letter from UNIVERSITY OF ARIZONA, TUCSON, Arizona.

College of Agriculture and
Agricultural Experiment Station

Mr. J. H. O'Dell,
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Phoenix, Arizona.

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Calcium	98
Magnesium	38
Total hardness (calculated as calcium carbonate)	398
Fluoride	0.2

Signed
Geo. E. Draper.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 7 - 1951
LANDON F. STROBEL
Executive Secretary

Postmarked June 6, 1951

Dma - 1439X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
Postmarked June 6-1951
JUN 7 - 1951
LANDON T. BRUNER
Executive Secretary

May 31, 1951.

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

RE: APPLICATION FOR AID FOR AN EXPLORATION PROJECT, FILED BY PEARL CHEMICAL DEVELOPMENT CORPORATION, CAVE CREEK, ARIZONA. 5/26/51.

GENTLEMEN:-

In our formal application under this title, filed by our First Vice-President and General Manager, mailed by him from Bismarck, North Dakota, you were advised that certain information would come by early communication from our Home Office. We take pleasure in handing you herewith answers to the following questions on Form MF 105 which he could not give you at time of filing:-

6-7-18-22 are covered by letter attached herewith.

25.
(a) One Millwright & Hoist Engineer)
Mechanic & Pipe Fitter) $ 2.00 per hour
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Two laborers or muckers - - - - - - - - - - 8.00 " "
(b) Superintendent & Gen. Forman $400.00 per mo.
General Manager - - - - - - - 400.00 " "
Secretary & Auditor - - - - - 400.00 " "
Assay Chemist - - - $2.00 per hour.
(c) Repair and re-timber shaft- Material - - - - - $3000.00
Labor-3 men 30 days - - - - - - - - - - - - - - - 800.00
(d) Cannot estimate as required.
(e) See Machinery List - - - - - - - - - - - - - - - - 9950.00
(f) Some of the machinery listed as new may be rented IF available)
(g) See other sheet, itemized.
(h) Small items too numerous to mention,
shovels, picks, survey equipment, etc. - - - 150.00
(i) No utilities available. Gasoline and Butane will be used.

24.
As there are 14 openings on Copper Top #2, about 2 weeks' work on each of these. There are believed to be two more large bodies crossing the property each side of the present openings. These should be thoroughly checked in about 7 (seven) months. All of the above is very accessable, and can be worked with speed with the prsent equipment and the machinery listed in No. 25.

(e) and (g) on next sheet.

Pearl Chemical Development Corporation

By Lelia P. Drish

23. Continued.
(e) Machinery now needed

	Estimated Prices or Approximate New	Used
105 cu.ft. Gas driven portable Air Compressor	$ 3366.00	$ 1800.00
2 Jack hammers 50 lb. Wet type at $345.00	690.00	450.00
Drill steel from 18 inch to 120 inch ----------	100.00	
Drill bitts 1-1/4and 1-3/8 - - - - - - - - - - - -	50.00	
Air Hose (2- 50 ft. lengths) and fittings - - - - -	100.00	
Water hose(2- 50 ft. lengths) and fittings - - - -	50.00	
Air Pipe 1-1/4 inch -- 200 feet.- - - - - - - - - - -	100.00	
1- 2drum hoise, gasoline driven - - - - - - - - - - - -	700.00	350.00
3/8 in. or 1/2 in. steel hoist cable --700 feet----	300.00	
1 set used assey equipment -scales, grinder, crusher, (furnace-Butane gas) xrucibles-Laboratory equipment-	800.00	
Timbers for shaft replacement and lagging at $15.00 ft.	3000.00	
Timber for head frame (small) - baxtxxxxdxxxdxx- - - -	150.00	
Bolts and rods -	100.00	
Misc. Tools-Dies-Pipe dies- Drills-etc. - - - - - - - - - - - -	250.00	
Small shed for Assay Office - - - - - - - - - - - - - - - -	200.00	
	$ 9950.00	

23-(g) Rental value of our equipment including Insurance, but no gas-no oil.

Ford 2 ton truck at $x5x00xperxdxy	$ 25.00	per day
Working Jeep and loader - - - - - - - -	16.00	" "
Farm-O-Road - - - - - - - - - - - - - - - -	5.00	" "
1000 gal. Water Tank on skids - - - -	3.00	" "
Crosley Service Car - - - - - - - - -	5.00	" "
Electric Power Plant-3000 Watt- - - -	2.00	" "
2 wheel box trailer - - - - - - - - - -	2.00	" "

- -

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish
President and Secretary.

4 copies

Dma-1439X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 7 - 1951
LANDON F. STROBEL
Executive Secretary

Postmarked June 6, 1951

May 31, 1951.

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

RE: APPLICATION FOR AID FOR AN
EXPLORATION PROJECT, FILED BY
PEARL CHEMICAL DEVELOPMENT CORPORATION,
CAVE CREEK, ARIZONA. 5/28/51.

GENTLEMEN:-

In our formal application under this title, filed by our First Vice-President and General Manager, mailed by him from Bismarck, North Dakota, you were advised that certain information would come by early communication from our Home Office. We take pleasure in handing you herewith answers to the following questions on Form MF 103 which he could not give you at time of filing:-

6-7-18-22 are covered by letter attached herewith.

23.

(a) One Millwright & Hoist Engineer)
Mechanic & Pipe Fitter) $ 2.00 per hour
Two miners - - - - - - - - - - - - - - - - - - $10.00 per Day
Two laborers or muckers - - - - - - - - - - 8.00 " "

(b) Superintendent & Gen. Forman $400.00 per mo.
General Manager - - - - - - - - 400.00 " "
Secretary & Auditor - - - - - 400.00 " "
Assay Chemist - - - $2.00 per hour.

(c) Repair and re-timber shaft- Material - - - - - $2000.00
Labor-2 men 30 days - - - - - - - - - - - - - - - 800.00

(d) Cannot estimate as required.

(e) See Machinery List - - - - - - - - - - - - - - - 9950.00

(f) Some of the machinery listed as new may be rented IF available)

(g) See other sheet, itemized.

(h) Small items too numerous to mention,
shovels, picks, survey equipment, etc. - - - 150.00

(i) No utilities available. Gasoline and Butane will be used.

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As there are 14 openings on Copper Top #2, about 2 weeks' work on each of these. There are believed to be two more large bodies crossing the property each side of the present openings. These should be thoroughly checked in about 7 (seven) months. All of the above is very accessable, and can be worked with speed with the present equipment and the machinery listed in No. 23.

(e) and (g) on next sheet.

Pearl Chemical Development Corporation
Lelia P. Lerich

23. Continued.

(e) Machinery now needed

	Estimated Prices or Approximate New	Used
105 cu.ft. Gas driven portable Air Compressor	$ 3366.00	$ 1800.00
2 Jack hammers 50 lb. Wet type at $345.00	690.00	450.00
Drill steel from 18 inch to 120 inch ----------	100.00	
Drill bitts 1-1/4and 1-3/8 - - - - - - - - - - -	50.00	
Air Hose (2- 50 ft. lengths) and fittings - - - - -	100.00	
Water hose(2- 50 ft. lengths) and fittings - - - -	50.00	
Air Pipe 1-1/4 inch — 200 feet.- - - - - - - - - -	100.00	
1- 2drum hoise, gasoline driven - - - - - - - - - - -	700.00	350.00
3/8 in. or 1/2 in. steel hoist cable --700 feet----	300.00	
1 set used assay equipment -scales, grinder, crusher, (furnace-Butane gas) xrucibles-Laboratory equipment-	800.00	
Timbers for shaft replacement and lagging at $15.00 ft.	3000.00	
Timber for head frame (small) - ~~xxxxxxxxxxxx~~- - - -	150.00	
Bolts and rods -	100.00	
Misc. Tools-Dies-Pipe dies- Drills-etc. - - - - - - - - - - -	250.00	
Small shed for Assay Office - - - - - - - - - - - - - - -	200.00	
	$ 9950.00	

23-(g) Rental value of our equipment including Insurance, but no gas-no oil.

Ford 2 ton truck at ~~x20xperxday~~	$ 25.00	per day
Working Jeep and loader - - - - - - -	16.00	" "
Farm-O-Road - - - - - - - - - - - - - -	5.00	" "
1000 gal. Water Tank on skids - - - -	3.00	" "
Crosley Service Car - - - - - - - - -	5.00	" "
Electric Power Plant-3000 Watt- - - -	2.00	" "
2 wheel box trailer - - - - - - - - -	2.00	" "

- -

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish
President and Secretary.

4 copies

Dma-1439 X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
Postmarked June 6 1951
JUN 7 - 1951
LANDON F. STROBEL
Executive Secretary

May 31, 1951.

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

RE: APPLICATION FOR AID FOR AN
EXPLORATION PROJECT, FILED BY
PEARL CHEMICAL DEVELOPMENT CORPORATION,
CAVE CREEK, ARIZONA. 5/28/51.

GENTLEMEN:-

In our formal application under this title, filed by our First Vice-President and General Manager, mailed by him from Bismarck, North Dakota, you were advised that certain information would come by early communication from our Home Office. We take pleasure in handing you herewith answers to the following questions on Form MF 103 which he could not give you at time of filing:-

6-7-18-22 are covered by letter attached herewith.

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(a) One Millwright & Hoist Engineer)
Mechanic & Pipe Fitter) $ 2.00 per hour
Two miners - - - - - - - - - - - - - - - - - - $10.00 per Day
Two laborers or muckers - - - - - - - - - - 8.00 " "

(b) Superintendent & Gen. Forman $400.00 per mO.
General Manager - - - - - - - - 400.00 " "
Secretary & Auditor - - - - - 400.00 " "
Assay Chemist - - - $2.00 per hour.

(c) Repair and re-timber shaft- Material - - - - - $2000.00
Labor-3 men 30 days - - - - - - - - - - - - - - - 800.00

(d) Cannot estimate as required.

(e) See Machinery List - - - - - - - - - - - - - - - 9950.00

(f) Some of the machinery listed as new may be rented IF available)

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shovels, picks, survey equipment, etc. - - - 150.00

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(e) and (g) on next sheet.

Pearl Chemical Development Corporation
By Lelia T. Lusk

23. Continued.
(e) Machinery now needed

	Estimated Prices or Approximate New	Used
105 cu.ft. Gas driven portable Air Compressor	$ 3586.00	$ 1800.00
2 Jack hammers 50 lb. Wet type at $345.00	690.00	450.00
Drill steel from 18 inch to 120 inch ----------	100.00	
Drill bitts 1-1/4and 1-3/8 - - - - - - - - - - -	50.00	
Air Hose (2- 50 ft. lengths) and fittings - - - - -	100.00	
Water hose(2- 50 ft. lengths) and fittings - - - -	50.00	
Air Pipe 1-1/4 inch -- 200 feet.- - - - - - - - - -	100.00	
1- 2drum hoise, gasoline driven - - - - - - - - - - -	700.00	350.00
3/8 in. or 1/2 in. steel hoist cable --700 feet----	500.00	
1 set used assey equipment -scales, grinder, crusher, (furnace-Butane gas) xrucibles-Laborstory equipment-	600.00	
Timbers for shaft replacement and lagging at $15.00 ft.	3000.00	
Timber for head frame (small) - - - - - - -	150.00	
Bolts and rods -	100.00	
Misc. Tools-Dies-Pipe dies- Drills-etc. - - - - - - - - - - -	250.00	
Small shed for Assay Office - - - - - - - - - - - - - - -	200.00	
	$ 9950.00	

23-(g) Rental value of our equipment including Insurance, but no gas-no oil.

Ford 2 ton truck at	$ 25.00	per day
Working Jeep and loader - - - - - - -	16.00	" "
Farm-O-Road - - - - - - - - - - - - - -	5.00	" "
1000 gal. Water Tank on skids - - - -	3.00	" "
Crosley Service Car - - - - - - - - -	5.00	" "
Electric Power Plant-3000 Watt- - - -	2.00	" "
2 wheel box trailer - - - - - - - - - -	2.00	" "

- -

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By Lelia P. Irish
President and Secretary.

4 copies

May 3 1, 1951.

Defense Minerals Administration,
Department of the Interior,
Washington-25-D.C.,

RE: APPLICATION FOR AID FOR A N
EXPLORATION PROJECT, FILED BY
PEARL CHEMICAL DEVELOPMENT CORPORATION,
CAVE CREEK, ARIZONA. 5/26/51.

Gentlemen:-

Supplementing the data furnished you by J.Roberts Hall, Vice-President and General Manager of the Pearl Chemical Development Corporation,

4. 6. As enclosing the Prospecting Permits, issued me, from the State of Arizona on Copper Top claims 1-2-3-4, comprising 60 additional acres to the State Lease NO. 47417-S issued to me for 20 years, dated Sept. 17, 1950. making 80 acres in all. described as: 20 acres: West ½ of SW ¼ of NE ¼ Sec. 36, T. 6 N. R. 5 E. G. & S. R. B. & M.

and 40 acres: East ½ SW¼NW ¼; E ½ NW¼ NW¼ " " " " " "

These Permits have been supplemented by Permits dated April 25, 1951, for 90 days.

7. Enclosed find COPY of Lease No.47417-S from State of Arizona for 20 years issued to Lelia P. Irish, Sept 18, 1950.. Lease is in GOOD STANDING.

16. These claims were worked and operated many years ago, with good production. The main ores were-gold-silver and copper. Upon recent demands for other ore deposits of valuable usage, there are rare elements- that at the surface show only a trace. As deeper work progresses, these will develop to definite estimate.

Enclosed find COPY of Spectograph Report. Also copy Assay No. 896 Model 4. Also 4 copies Report on Water sample Lab.No. C-2484. University of Ariz.

22. Enclosed find sketch of old workings on Copper Top 1-2-3-4, also proposed work.

Data for Nos. 23 and 24 is furnished in Page 2.

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION

By Lelia P. Irish Pres. & Treas.

Defense Minerals Administration

PEARL CHEMICAL DEVELOPMENT CORPORATION

Box 77, Cave Creek, Arizona.

May 31, 1951.

COPY- letter from UNIVERSITY OF ARIZONA, TUCSON, Arizona.

College of Agriculture and
Agricultural Experiment Station

Mr. J. H. O'Dell,
County Agricultural Agent,
Phoenix, Arizona.

March 2, 1951.

Dear Mr. O'Dell:

The WATER for Jack Hann, Phoenix, has been analysed and the alkaline salt content expressed as parts per million, appear below:

Laboratory No.	C-2484
Description	Cave Creek
Total soluble salt	725
Calcium	98
Magnesium	38
Total hardness (calculated as calcium carbonate)	398
Fluoride	0.2

Signed
Geo. E. Draper.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 7 - 1951
LANDON F. STROBEL
Executive Secretary

Postmarked June 6, 1951

May 3 1, 1951.

Defense Minerals Administration,
Department of the Interior,
Washington-25-D.C.,

Re: APPLICATION FOR AID FOR A M
EXPLORATION PROJECT, FILED BY
Pearl Chemical Development Corporation,
CAVE CREEK, ARIZONA. 5/28/51.

Gentlemen:-

Supplementing the data furnished you by J.Roberts Hunt, Vice-President and General Manager of the Pearl Chemical Development Corporation,

4. 6. As enclosing the Prospecting Permits, issued me, from the State of Arizona on Copper Top claims 1-2-3-4, comprising 60 additional acres to the State Lease NO. 47417-S issued to me for 20 years, dated Sept. 17, 1950. making 80 acres in all. described as: 20 acres: West ½ of SW ¼ of NW ¼ Sec. 36, T. 6 N R 8 E. G & S R B & M.

and 40 acres: East ½ SW¼SW ¼; E ½ NW¼ NW¼ " " " " " "

These Permits have been supplemented by Permits dated April 25, 1951, for 40 acres.

7. Enclosed find COPY of Lease No.47417-S from State of Arizona for 20 years issued to Lelia P. Irish, Sept 16, 1950.. Lease is in GOOD STANDING.

16. These claims were worked and operated many years ago, did some production. The main ores were-gold-silver and copper. Upon recent demands for other ore deposits of valuable usage, there are rare elements- that at the surface show only a trace. As deeper work progresses, these will develop to definite estimate.

Enclosed find COPY of Spectograph report. Also copy Assay No. 858 dated 4. Also 4 copies Report on Water Sample Lab.No. C-4404. University of Ariz.

21. Enclosed find sketch of old workings on Copper Top 1-2-3-4, also proposed work.

Data for Nos. 22 and 24 is furnished in Page 4.

Respectfully submitted,

Pearl Chemical Development Corporation

Lelia P. Irish, Pres. & Secy.

May 5 1, 1951.

Defense Minerals Administration,
Department of the Interior,
Washington-25-D.C.,

RE: APPLICATION FOR AID FOR A M
EXPLORATION PROJECT, FILED BY
PEARL CHEMICAL DEVELOPMENT CORPORATION,
CAVE CREEK, ARIZONA. 5/26/51.

Gentlemen:-

Supplementing the data furnished you by J.Roberts Hawk, Vice-President and General Manager of the Pearl Chemical Development Corporation,

Q. 6. Am enclosing the Prospecting Permits, issued me, from the State of Arizona on Copper Top claims 1-3-4, comprising 60 additional acres to the State Lease NO. 47417-8 issued to me for 20 years, dated Sept. 17, 1950. making 80 acres in all. described as: 20 acres: West ½ of SW ¼ of NW ¼ Sec. 26, T. 6 N R 3 E. G & S R B & M.

and 40 acres: East ½ SW¼NW ¼; E ½ NW¼ NW¼ " " " " " "

These Permits have been supplemented by Permits dated April 25, 1951, for 90 days.

7. Enclosed find COPY of Lease No.47417-8 from State of Arizona for 20 years issued to Lelia P. Irish, Sept 18, 1950.. Lease is in GOOD STANDING.

18. These claims were worked and operated many years ago, with good production. The main ores were-gold-silver and copper. Upon recent demands for other ore deposits of valuable usage, there are rare elements- that at the surface show only a trace. As deeper work progresses, these will develop to definate estimate.

Enclosed find COPY of Spectograph Report.Also copy Assay No. 856 Mc.Jan 4. Also 4 copies Report on Water sample Lab.No. C-2484. University of Ariz.

22. Enclosed find sketch of old workings on Copper Top 1-2-3-4, also proposed work.

Data for Nos. 23 and 24 is furnished in Page 2.

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION

By Lelia P. Irish Pres. & Sec

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

Registered 197

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MACNEIL
VICE-PRESIDENT AND
RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND
GENERAL MANAGER

May 3 1, 1951.

Defense Minerals Administration,
Department of the Interior,
Washington-25-D.C.,

RE: APPLICATION FOR AID FOR A N
EXPLORATION PROJECT, FILED BY
PEARL CHEMICAL DEVELOPMENT CORPORATION,
CAVE CREEK, ARIZONA. 5/26/51.

Gentlemen:-

Supplementing the data furnished you by J.Roberts Hann, Vice-President and General Manager of the Pearl Chemical Development Corporation,

Q. 6. Am enclosing the Prospecting Permits, issued me, from the State of Arizona on Copper Top claims 2-3-4, comprising 60 additional acres to the State Lease NO. 47417-S issued to me for 20 years, dated Sept. 17, 1950. making 80 acres in all. described as: 20 acres: West ½ of SW ½ of NW ¼. Sec. 36, T. 6 N R 3 E. G & S R B & M.

and 40 acres: East ½ SW¼NW ¼; E ½ NW¼ NW¼ " " " " " "

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Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION

By Lelia P. Irish Pres. & Secy.

COPYRIGHT 1937 APACHE PRODUCTS

Defense Minerals Administration

PEARL CHEMICAL DEVELOPMENT CORPORATION

Box 77, Cave Creek, Arizona.

May 31, 1951.

COPY- letter from UNIVERSITY OF ARIZONA, TUCSON, Arizona.

College of Agriculture and
Agricultural Experiment Station

March 2, 1951.

Mr. J. H. O'Dell,
County Agricultural Agent,
Phoenix, Arizona.

Dear Mr. O'Dell:

The WATER for Jack Hann, Phoenix, has been analyzed and the alkaline salt content expressed as parts per million, appear below:

Laboratory No.	C-2484
Description	Cave Creek
Total soluble salt	725
Calcium	98
Magnesium	38
Total hardness (calculated as calcium carbonate)	398
Fluoride	0.2

Signed
Geo. E. Draper.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
Postmarked June 6 - 1951
JUN 7 - 1951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMA 1439X
Metal or Mineral
Date Received 9-10-51
Amount $
Participation (Government %)

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. SEP 10 10 06 AM '51

PEARL CHEMICAL DEVELOPMENT CORPORATION
P.O. BOX 77.
CAVE CREEK, ARIZONA.

Name and address of applicant

Date Sept. 4, 1951.

If you have already filed MF-100, give date filed ....., type of assistance requested .....,

DMA Docket Number (if available) DMA-1439X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease under which you are authorized to operate the property with each copy of your application.
   Copy lease mailed your office May ma, 31, 1951.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project. Answered in Q 23 and 24.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.
   Map was likewise sent your office May 31, 1951. See letter attached.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

PEARL CHEMICAL DEVELOPMENT CORPORATION
(Name of company)

By Lelia T. Irish
(Signature of authorized official)

September 4, 1951.
(Date)

President & Secretary
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

-103
(1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma-1439 X

Date received 5/31/51

Participation

PERRY CHEMICAL DEVELOPMENT CORPORATION
POST OFFICE BOX 77
CAVE CREEK, ARIZONA

Name and address of applicant

Date 26 MAY, 1951

FILL IN THIS BLOCK

Date of application (Informal) 9 October, 1950 Estimated cost $ 25,000.00

Mineral or metal copper, manganese, tungsten and other rare minerals

Percentage of Government participation 75%

Location of mine Cave Creek Mining area, 30 miles N.E. Phoenix Ariz.

Date of filing MF-100 unknown

DMA Docket Number, if available unknown

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation

*2. If a partnership, state names and addresses of partners. ****

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. * See additional

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. * See additional exhibit

*5. Are you the owner of the lessee of the property? Sub-lessee, Original lease see *

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing. Lease good standing see*

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract. Necessary releases will be obtained from State of Arizona

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. New Corporation

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Will advance sufficient sums

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. *See Exhibit for extensive list
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. *

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. Have several areas to work

*11. State the present and former names of the property, if any. * See Exhib/ hope with own funds
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. *
13. State source and quantity of water available for operations and its sufficiency at all seasons. Unlimited see
State amount of power to be used, rate per hour or other cost, and source. Unknown, use own, see *
14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See
15. State in detail how the ore could be shipped and how and where milled. Milled on property, truck 50 mi.
16. History: See
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information: Not in production

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) Est 3,000,000 ton copper
    (*a*) Describe the ore or mineral deposits briefly. and other minerals in addition
    (*b*) Submit available maps and assay data. See*
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See*

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See over and *
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Open new deposits

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 18 Months
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See *

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: See*
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

PEARL CHEMICAL DEVELOPMENT CORPORATION By J. Roberts Hane
(Name of company) (Signature of authorized official)

on 26 May, 1951 J. ROBERTS HANE
(Date) (Title) First Vice President & Gen'l Mgr.

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

May 26,1951

The Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

Gentlemen;

Attatched hereto,please find your Form MF-103 (april 1951), completed to the best of our ability,being an "APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5 UNDER DEFENSE PRODUCTION ACT OF 1950"

Initial inquiry was made October 9,1950, to your Tuscon office, in the name of Mrs. Lelia P. Irish, who holds a 20 year lease on the property in question,granted her by the State of Arizona. She has done considerable work and,with myself,spent sums of money on the property, which has good showings,past and present which we must explore in order to determine their extent.

This Corporation was since formed by her (my Aunt) and myself and additional sums have since been expended,but sufficient assets of cash are not available to complete the exploration. She will assign her lease to property in question,as well as other leases, claims,patents filings,etc., which she will assign to this Corporation. Additional cash assets are being obtained to assure ample compliance with any contract this Corporation may enter into.

The balance of this communication will consist of answers to Form MF-103 where space did not permit:-

3

Names and addresses of officers:- President, Mrs. Lelia P. Irish Box 77, Cave Creek,Arizona—, J.F. Cachell, Vice President and resident Chemist, J.Roberts Mann, First vice President,of Cave Creek and Chicago.
These three, together with Mr.T.D.Carpenter of Cave Creek Arizona and The Otis Mann Company, Inc., of Chicago Illinois, are the ~~three~~ five largest stockholders at present. A stock selling-money raising plan has not yet been undertaken ~~as yet~~.

4

The applicant is a new Corporation, with no previous experience, BUT all persons associated have had mining experience, as well as general business experience:—Mrs. Irish for about 20 years has worked this and other mining preoperties in this vicinity, with a total time of 40

years of pospecting and mining experience. During this time she has also operated several other successful commercial ventures.

Dr. J.F.Mac Neil has, since retiring from active practice, has devoted his successful attentions to mining and a knowledge of minerals, and chemicals, and is thoroly familiar with this project.

Mr. Carpenter has had a wide experience, both in industry and mining, and it is understood that his father many years ago was interested in the subject property, and others in the mining district.

J.Roberts Hann has had extensive experience in the field of finance, and for several years was president of two mining companies in Illinois. These companies were mining coal, but primarily were producing high-grade refractory fire clay, extensive deposits of which are believed to be on this property.

Other miners and engineers familiar with this and ajdacent claims will also be employed as funds are available.

—5—

Applicant is not the owner. However, this is state land, and the State of Arizona has ~~about~~ a year ago, granted a 20 year lease to Mrs. L.P.Irish, which lease is being assigned to this Company, and after reading the instructions for completing this application, as well as other explainations from your Department, we feel that there will be no difficulty in obtaining proper releases from the State of Arizona. Until making a trip to Denver the writer was not aware of the need for certain releases.

—7—

As above stated, complete releases are not available but will be obtained from the State of Arizona, and will be ready to attatch to such contract as you may provide this Corporation. We feel certain that their claim to this property is clear of liens and attachments.

—8—

Financial statement. This being a new organization, it may merely be said that it has NO liabilities (other than bookkwwping entries of stock outstanding, has ~~cash assets not of less than $100.00 in bank, and~~ about $5,000.00 ~~cash assets~~. (~~Correct~~ and cash bank balance ~~to~~ less than $ 1,000.00). Considerable sums have been expended by the various individuals, which redound to the benefit of the newly prganized company but which have not as yet been run through its books. It therefore cannot make a Profit and Loss Statement

—9—

Additional money to operate. Corporation, and its backers as stated above have devoted considerable funds already, in the hope of being able to complete the exploration and development work without recourse to outside funds. This it seems is not possible, but the Corporation is assurred of considerable cash when needed provided this Federal Aid is granted. At least fifteen to twenty thousand dollars should be available. The company will have funds adequate to meet the requirements of the application, as indicated from present committments of purchase of stock of the Company.

—10—

--10--

(a) Subject property, known locally as "Copper Top," is in Cave Creek mining district, some 30 miles northeast of Pheonix Arizona. On the property are considerabl old workings, shafts tunnels, dumps, parts of assay office, loading docks, mill, and numerous explorations with good but weathered showings. Also several "kidneys" as yet unexplored and numerous veins running from the main workings--the latter above the type of ores exposed. In addition there are several pieces of equipment, trucks, large and small, generators pumps etc. The showings are easily accessible to exploration.
(b) Legal description--"Copper Top", located by Lelia P. Irish June 19, 1950, recorded Book 571, Page 377, Maricopa Country Arizona. Leased by State Land Department, No.47417-S Sept.18,1950 to Lelia P. Irish for a period of 20 years with option to renew, covering 20 acres, being the West ½ NW ¼ NW ¼ Sec. 36. T 6 N R 3 E S.R.B.& M., Maricopa County, Arizona. There are also 3 Prospecting Permits on 3 adjoining claims which may be included in this operation. There are also other adjoining claims all contiguous, with good showings.

--11--

Present Name-COPPER TOP known previously as follows
Kentucky Arizona Copper Co. Recorded 2/9/09 Bk19 p573
Copper Top Group, Affidavit of Labor 227/09 Bk 19, p598
Cloudy Day-J.R.Cox Rec 3/2/14 Bk 22 p 400
Pheonix # 13-14-15-16 (M.A.Cox et al Rec 8/9/15 Bk 22 p482-4
Dig Dick and Black Jack Rec 7/14/1916 B 23 p 144-5
Copper Top--L.P.Irish as in 10-(b) - 6/19/50 - B-571 - p 377

--12--

This property, located in the Cave Creek Mining District, 30 miles NE Pheonix Arizona, is 1 miles from County Hiway known as New River Cutoff, thence East 4½ miles over this fair gravel road to Cave Creek Road paved all but 7½ miles to Pheonix. County asserts this 7½ miles to be paved this summer--also to improve 4½ miles of New River Cutoff whenever this Company begins heavy use. (We have dozer etc to keep road passable until improved). It is 7 miles, East and north to Cave Creek Postoffice. Shipping is by truck, to Pheonix 30 mi., or smelter 50 mile (to points east of Pheonix via good desert roads avoiding city traffic). Haul is downhill. Custom carrier now hauls for neighboring workings. We have trucks to rent at consierable savings.

--13--

Sources of water, include ample supply from windwill 1½ miles, keeps 7,500 gal tank full, also water on our other property. These require tank truck which is available for rent. Main prospective supply is 40 feet of water in bottom of abandoned shaft on property. We need funds to acquire pipe, and pumps, tho some equipment now owned. We need some priority to obtain some equipment. At present, water no problem. Since mostly free flowing, cost is merely transportation by our 1000 gallon tank truck with removable body, thus releasing same for other work, such as hauling tools equipment, powder, generating electricity from power take-off etc.

--14--

Existing equipment and facilities described above.

—15—

Ore can be shipped as above, by custom truck or our own dump truck, about 50 miles to ore buyers. It can be milled on our property, as mill once stood on property. Also, local group of other operators, are interested to considerable extent in assisting in raising funds to build mill (custom) on our property. This company would operate same at profit on overall operation thereof, and savings in its own milling costs. Expect will be built by October.

—16—

History(a) This, and our other properties, and adjoining claims, have long history of operation for over 50 years, at which time most emphasis was placed on Gold. Old Apache Trail crosses over our land, and many indications are exposed, but weathered from former operations. Copper Top was worked heavily for gold, but finally abandined after falling into hands of stock promoters, who left when water filled 40 feet of shaft, and pumping prooved too costly with wood burning steam engines—and wood ran out, and water pumped from mine prooved to contain sufficient copper to ruin boilers. Physical evidence of this remains, as well as a number of elderly miners residing in vicinity who worked those parts.
(b) Little is known of actual production other mines this area as most owners will not reveal results their operations. It is known that custom truck is frquently seen on main hiway,loaded.
(c) Documentary evidence not available to me at time and place of this writing, as have not returned to Pheonix since visit your Denver office. Present shafts, drifts ,explorations and kidneys invite further exploration, which is going on this time. Interesting samples assayed and/or spectrographed are encourageing—hence our continued investment of cash presently and prospective, in addition to proceeds this Aid.

—17—

At present this property not in production due to desired further exploration and discovery of almost certain deposits.

—18—

Ore, or Mineral Reserves. The amounts,of vaious grades and types of ores and Minerals is presently unknown to me, from records at hand,but memory serves to indiate several millions of tons of copper assaying neighborhood $30.00 per ton, (net to Company $20.00). There seems an unlimited amount of high-grade refractory fire clay. Further information can be fortheoming in future communications.

—19—

I have reason to believe that there are numerous deposits of rare minerals and ores on this property, which were overlooked when worked years ago in search ONLY of Gold and Silver.

—20—

As above indicated, tests, samples assays and spectrographs lead this company to conclusion that explorations should be made for MANGANESE MICA, TALC, QUARTZ CRYSTALS, GOLD,SILVER,COPPER, IRON,ALUMINUM,BARIUM, CHROMIUM,COBALT,LEAD,NICKEL, AND OTHERS.

—21—

Proposed work is exploration of old working where deposits are known or believed to exist; exploration and opening of new deposits known or believed to exist. The estimated time required will be estimated at between twelve and eighteen months at the most, as it is believed this property contains large and extensive deposits, easily accessable.

—22—

The information required in this question are not available to the writer at the place and time of this writing due to fact that writer is not at the property, having made a trip to Denver to obtain Form 103, and having gone on to North Dakota to attempt to dispose of some properties to acquire cash funds for further development and exploration of subject property. This information will be provided in an early communication.

—23—

Tabulation of costs, as requested in this Question, subsections (a) to (i) will be in the form of an addenda to this application, or in and early subsequent communication, as the writer does not have all the necessary information at the time and place of this writing.

—24—

Time schedule and projected progress report, must at this time be answered as above in answer to Question twenty three.

Its is hoped that the presently available information will suffice to permit consideration of this application within the time limits mentioned in your Denver office, to the end that action may be taken within this fiscal year, it being understood that as rapidly as possible and within a short time, you will receive maps, and ther data we have at the Home Office of the Company in Arizona.

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By J. Roberts Hann

J. ROBERTS HANN, First Vice President, and General Manager

J/h/
Written at Bismark, North Dakota

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1439 X

Date received 6/21/51

Participation

PEARL CHEMICAL DEVELOPMENT CORPORATION
POST OFFICE BOX 77
CAVE CREEK, ARIZONA

Name and address of applicant

Date 26 MAY, 1951

FILL IN THIS BLOCK

Date of application (Informal) 9 October, 1950 Estimated cost $ 25,000.00

Mineral or metal copper, manganese, talc, iron and other rare minerals

Percentage of Government participation 75%

Location of mine Cave Creek Mining area, 30 miles N.E. Pheonix Ariz.

Date of filing MF-100 unknown

DMA Docket Number, if available unknown

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation

*2. If a partnership, state names and addresses of partners. ******

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. * See additional

*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. *-See additional exhibit

*5. Are you the owner or the lessee of the property? *Sub- lessee. Original lease see *

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing. Lease good standing see*

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract. Necessary releases will be obtained from State of Arizona

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. *New Corporation

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Will advance sufficient sums

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. *See Exhibit for extensive list

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. *

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11. State the present and former names of the property, if any. See Exhib/ hope with own funds

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. *

13. State source and quantity of water available for operations and its sufficiency at all seasons. Unlimited see State amount of power to be used, rate per hour or other cost, and source. Unknown, use own, see *

14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See

15. State in detail how the ore could be shipped and how and where milled. Milled on property, truck 50 mi.

16. History: See

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) Est 3,000,000 ton copper and other minerals in addition

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data. See*

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See*

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See over and *

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Open new deposits 18 Months

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See *

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23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: See*

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

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24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

PEARL CHEMICAL DEVELOPMENT CORPORATION, By J. Roberts Hann
(Name of company) (Signature of authorized official)

J. ROBERTS HANN

26 May, 1951 (Date) First Vice President & Gen'l Mgr. (Title)

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*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Pearl Chemical Developement Corporation

APACHE PARK

P. O. BOX 77
CAVE CREEK, ARIZONA

LELIA P. IRISH
PRESIDENT AND SECRETARY

J. F. MacNEIL
VICE-PRESIDENT AND
RESIDENT CHEMIST

J. ROBERTS HANN
FIRST VICE-PRESIDENT AND
GENERAL MANAGER

May 26,1951

No Bureau of Mines Reports this property

The Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

Gentlemen;

Attatched hereto,please find your Form MF-103 (April 1951), completed to the best of our ability,being an "APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5 UNDER DEFENSE PRODUCTION ACT OF 1950"

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The balance of this communication will consist of answers to Form MF-103 where space did not permit:-

#3

Names and addresses of officers:- President, Mrs. Lelia P. Irish Box 77, Cave Creek Arizona--, J.F. MacNeil, Vice President and resident Chemist, Mr.Roberts Hann, First Vice President,of Cave Creek and Chicago.
These three, together with Mr.E.B.Carpenter of Cave Creek Arizona and The Otis Hann Company, Inc., of Chicago Illinois, are the ~~three~~ five largest stockholders at present. A stock selling-money raising plan has not yet been undertaken, ~~as yet~~.

#4

The applicant is a new Corporation, with no previous experience, BUT all persons associated have had mining experience, as well as general business experience:--Mrs. Irish for about 20 years has worked this and other mining properties in this vicinity, with a total time of 40

COPYRIGHT 1937 APACHE PRODUCTS

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--10

--10--

(a) Subject property, known locally as "Copper Top," is in Cave Creek mining district, some 30 miles northeast of Pheonix Arizona. On the property are considerabl old workings, shafts, tunnels, dumps, parts of assay office, loading docks, mill, and numerous explorations with good but weathered showings. Also several "kidneys" as yet unexplored and numerous veins running from the main workings--the latter above the type of ores exposed. In addition there are several pieces of equipment, trucks, large and small, generators, pumps etc. The showings are easily accessible to exploration.
(b) Legal description--"Copper Top", located by Lelia P. Irish June 19, 1950, recorded Book 571, Page 377, Maricopa Country Arizona. Leased by State Land Dapartment, No.47417-S, Sept.18, 1950 to Lelia P. Irish for a period of 20 years with option to renew, covering 20 acres, being the West ½ NW ¼ NW ¼ Sec. 36. T 6 N R 3 E-S.R.B.& M., Maricopa County, Arizona. There are also 3 Prospecting Permits on 3 adjoining claims which may be included in this operation. There are also other adjoining claims all contiguous, with good showings.

--11--

Present Name-COPPER TOP known previously as follows
Kentucky Arizona Copper Co. Recorded 2/9/09 Bk19 p573
Copper Top Group, Affidavit of Labor 2/27/09 Bk 19, p598
Cloudy Day-J.R.Cox Rec 3/2/14 Bk 22 p 400
Pheonix # 13-14-15-16 (M.A.Cox et al Rec 8/9/15 Bk 22 p482-4
Big Dick and Black Jack Rec 7/14/1916 B 23 p 144-5
Copper Top--L.P.Irish as in 10-(b) 4/19/50 B 571 - P 377

--12--

This property, located in the Cave Creek Mining District, 30 miles NE Pheonix Arizona, is 1 miles from County Hiway known as New River Cutoff, thence east 4½ miles over this fair gravel road to Cave Creek Road paved all but 7½ miles to Pheonix. County asserts this 7½ miles to be paved this summer--also to improve 4½ miles of New River Cutoff whenever this Company begins heavy use. (We have dozer etc to keep road passable until improved). It is 7 miles, East and north to Cave Creek Postoffice. Shipping is by truck, to Pheonix 30 mi., or smelter 50 mile (to points east of Pheonix via good desert roads avoiding city traffic). Haul is downhill. Custom carrier now hauls for neighboring workings. We have trucks to rent at consierable savings.
W

--13--

Sources of water, include ample supply from windwill 1½ miles, keeps 7,500 gal tank full, also water on our other property. These require tank truck which is available for rent. Main prospective supply is 40 feet of water in bottom of abandoned shaft on property. We need funds to acquire pipe, and pumps, tho some equipment now owned. We need some priority to obtain some equipment. At present, water no problem. Since mostly free flowing, cost is merely transportation by our 1000 gallon tank truck with removable body, thus releasing same for other work, such as hauling tools, equipment, powder, generating electricy from power take-off etc.

--14--

Existing equipment and facilities described above.

--15--

Ore can be shipped as above, by custom truck or our own dump truck, about 50 miles to ore buyers. It can be milled on our property, as mill once stood on property. Also, local group of other operators, are interested to considerable extent in assisting in raising funds to build mill (custom) on our property. This company would operate same at profit on overall operation thereof, and savings in its own milling costs. Expect will be built by October.

--16--

History(a) This, and our other properties, and adjoining claims, have long history of operation for over 50 years, at which time most emphasis was placed on Gold. Old Apache Trail crosses over our land, and many indications are exposed, but weathered from former operations. Copper Top was worked heavily for gold, but finally abandined after falling into hands of stock promoters, who left when water filled 40 feet of shaft, and pumping prooved too costly with wood burning steam engines--and wood ran out, and water pumped from mine proved to contain sufficient copper to ruin boilers. Physical evidence of this remains, as well as a number of elderly miners residing in vicinity who worked those parts.
(b) Little is known of actual production other mines this area as most owners will not reveal results their operations. It is known that custom truck is frquently seen on main hiway,loaded.
(c) Documentary evidence not available to me at time and place of this writing, as have not returned to Pheonix since visit your Denver office. Present shafts, drifts ,explorations and kidneys invite further exploration, which is going on this time. Interesting samples assayed and/or spectrographed are encourageing--hence our continued investment of cash presently and prospective, in addition to proceeds this Aid.

--17--

At present this property not in production due to desired further exploration and discovery of almost certain deposits.

--18--

Ore, or Mineral Reserves. The amounts,of vaious grades and types of ores and Minerals is presently unknown to me, from records at hand,but memory serves to indiate several millions of tons of copper assaying neighborhood $30.00 per ton, (net to Company $20.00). There seems an unlimited amount of high-grade refractory fire clay. Further information can be fortheoming in future communications.

--19--

I have reason to believe that there are numerous deposits of rare minerals and ores on this property, which were overlooked when worked years ago in search ONLY of Gold and Silver.

--20--

As above indicated, tests, samples, assays, and spectrographs lead this company to conclusion that explorations should be made for MANGANESE MICA, TALC, QUARTZ CRYSTALS, GOLD,SILVER,COPPER, IRON,ALUMINUM,BARIUM, CHROMIUM,COBALT,LEAD,NICKEL, AND OTHERS.

--21--

Proposed work is exploration of old working where deposits are known or believed to exist; exploration and opening of new deposits known or believed to exist. The estimated time required will be estimated at between twelve and eighteen months at the most, as it is believed this property contains large and extensive deposits, easily accessable.

--22--

The information required in this question are not available to the writer at the place and time of this writing due to fact that writer is not at the property, having made a trip to Denver to obtain Form 103, and having gone on to North Dakota to attempt to dispose of some preperties to acquire cash funds for further development and exploration of subject property. This information will be provided in an early communication.

--23--

Tabulation of costs, as requested in this Question, subsections (a) to (i) will be in the form of an addenda to this application, or in and early subsequent communication, as the writer does not have all the necessary information at the time and place of this writing.

--24--

Time schedule and projected progress report, must at this time be answered as above in answer to Question twenty three.

Its is hoped that the presently available information will suffice to permit consideration of this application within the time limits mentioned in your Denver office, to the end that action may be taken within this fiscal year, it being understood that as rapidly as possible and within a short time, you will receive maps, and other data we have at the Home Office of the Company in Arizona.

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By J. Roberts Hann

J. ROBERTS HANN, First Vice President, and
General Manager

j/h/
Written at Bismark, North Dakota

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1439X

Date received 5/31/51

Participation

PEARL CHEMICAL DEVELOPMENT CORPORATION
POST OFFICE BOX 77
CAVE CREEK, ARIZONA

Name and address of applicant

Date 26 MAY, 1951

FILL IN THIS BLOCK

Date of application (Informal) 9 October, 1950 Estimated cost $ 25,000.00

Mineral or metal copper, manganese, talciron and other rare minerals

Percentage of Government participation 75%

Location of mine Cave Creek Mining area, 30 miles N.E. Pheonix Ariz.

Date of filing MF-100 unknown

DMA Docket Number, if available unknown

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Corporation

*2. If a partnership, state names and addresses of partners. ******

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. * See additional

*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. *-See additional exhibit

*5. Are you the owner or the lessee of the property? *Sub- lessee. Original lease see *

6. If owner, state what claims, liens, or encumbrances, if any, are against the property.

7. If lessee, attach a copy of the lease and state if it is in good standing. Lease good standing see*

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract. Necessary releases will be obtained from State of Arizona

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. *New Corporation

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Will advance sufficient sums

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. *See Exhibit for extensive list

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. *

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. Have several areas to work

11. State the present and former names of the property, if any. See Exhib/ hope with own funds

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. *

13. State source and quantity of water available for operations and its sufficiency at all seasons Unlimited see State amount of power to be used, rate per hour or other cost, and source. Unknown, use own, see *

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See*m

15. State in detail how the ore could be shipped and how and where milled. Milled on property, truck 50 mi.

16. History: See

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.) Est 3,000,000 ton copper and other minerals in addition

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data. See*

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See*

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See over and *

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Open new deposits

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 18 Months

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See *

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: See*

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

PEARL CHEMICAL DEVELOPMENT CORPORATION By J. Roberts Hann
(Name of company) (Signature of authorized official)

26 May, 1951 J.ROBERTS HANN
(Date) First Vice President & Gen'l Mgr.
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

May 26,1951

The Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

Gentlemen;

Attatched hereto,please find your Form MF-103 (April 1951), completed to the best of our ability,being an "APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5 UNDER DEFENSE PRODUCTION ACT OF 1950"

Initial inquiry was made October 9,1950, to your Tuscon office, in the name of Mrs. Lelia P. Irish, who holds a 20 year lease on the property in question,granted her by the State of Arizona. She has done considerable work and,with myself,spent sums of money on the property, which has good showings,past and present which we must explore in order to determine their extent.

This Corporation was since formed by her (my Aunt) and myself and additional sums have since been expended,but sufficient assets of cash are not available to complete the exploration. She will assign her lease to property in question,as well as other leases, claims,patents filings,etc., which she will assign to this Corporation. Additional cash assets are being obtained to assure ample compliance with any contract this Corporation may enter into.

The balance of this communication will consist of answers to Form MF-103 where space did not permit:-

#3

Names and addresses of officers:- President, Mrs. Lelia P. Irish Box 77, Cave Creek,Arizona--, J.F. MacNeil, Vice President and resident Chemist, J.Roberts Mann, First Vice President,of Cave Creek and Chicago.
These three, together with Mr.E.B.Carpenter of Cave Creek Arizona and The Otis Mann Company, Inc., of Chicago Illinois, are the ~~three~~ five largest stockholders at present. A stock selling-money raising plan has not yet been undertaken, ~~as yet~~.

#4

The applicant is a new Corporation, with no previous experience, BUT all persons associated have had mining experience, as well as general business experience:--Mrs. Irish for about 20 years has worked this and other mining preoperties in this vicinity, qith a total time of 40

years of pospecting and mining experience.During this time she has also operated several other successful commercial ventures.

Dr. J.F.Mac Neil ~~has~~ ,since retiring from active practice, has devoted his successful attentions to mining and a knowledge of minerals, and chemicals, and is thoroly familiar with this project.

Mr. Carpenter has had a wide experience, both in industry and mining, and it is understood that his father many years ago was interested in the subject property,and others in the mining district.

J.Roberts Hann has had extensive experience in the field of finance, and for several years was president of two mining companies in Illinois. These companies were mining coal, but primarily were producing high-grade refractory fire clay, extensive deposits of which are believed to be on this property.

Other miners and engineers familiar with this and ajdacent claims will also be employed as funds are available.

--5--

Applicant is not the owner. However, this is state land, and the State of Arizona has ~~about~~ a year ago, granted a 20 year lease to Mrs. L.P.Irish, which lease is being assigned to this Company, and after reading the instructions for completing this application, as well as other explainations from your Department, we feel that there will be no difficulty in obtaining proper relaases from the State of Arizona. Until making a trip to Denver the writer was not aware of the need for certain releases.

-- --7--

As above stated, complete releases are not available but will be obtained from the State of Arizona, and will be ready to attatch to such contract as you may provide this Copporation. We feel certain that their claim to this property is clear of liens and attachments.

--8--

Financial statement. This being a new organization, it may merely be said that it has NO liabilities (other than bookkeeping entries of stock outstanding, has ~~cash assets not of less than $100.00 in bank~~, and ahout $5,000.00 cash assets.(~~Correct~~ cash bank balance to less than $ 1,000.00). Considerable sums have been expended by the various individuals, which redound to the benefit of the newly prganized company but which have not as yet been run through its books. It therefore cannot make a Profit and Loss Statement

--9--

Additional money to operate. Corporation ,and its backers as stated above have devoted considerable funds already, in the hope of being able to complete the exploration and development work without recourse to outside funds. This it seems is not possible, but the Corporation is assurred of considerable cash when needed provided this Federal Aid is granted. At least fifteen to twenty thousand dollars should be available. The company will have funds adequate to meet the requirements of the application, as indicated from present committments of purchase of stock of the Company.

--10--

--10--

(a) Subject property, Known locally as "Copper Top", is in Cave Creek mining district,some 30 miles northeast of Pheonix Arizona. On the property are considerabl old workings, shafts tunnels, dumps,parts of assay office,loading docks,mill, and numerous explorations with good but weathered showings. Also several "kidneys"as yet unexplored and numerous veins running from the main workings--the latter above the type of ores exposed. In addition there are several pieces of equipment, trucks,large and small ,generators pumps etc. The showings are easily accessible to exploration.
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Copper Top--L.P.Irish as in 10-(b) - 6/19/50 B-571-p 377

--12--

This property, located in the Cave Creek Mining District, 30 miles NE Pheonix Arizona, is 1 miles from County Hiway known as New River Cutoff, thence east 4½ miles over this fair gravel road to Cave Creek Road paved all but 7½ miles to Pheonix. County asserts this 7½ miles to be paved this summer--also to improve 4½ miles of New River Cutoff whenever this Company begins heavy use. (We have dozer etc to keep road passable until improved). It is 7 miles,East and north to Cave Creek Postoffice.Shipping is by truck, to Pheonix 30 mi., or smelter 50 mile (to points east of Pheonix via good desert roads avoiding city traffic). Haul is downhill. Custom carrier now hauls for neighboring workings. We have trucks to rent at consierable savings.
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Proposed work is exploration of old working where deposits are known or believed to exist; exploration and opening of new deposits known or believed to exist. The estimated time required will be estimated at between twelve and eighteen months at the most, as it is believed this property contains large and extensive deposits, easily accessable.

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Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By J. Roberts Hann

J. ROBERTS HANN, First Vice President, and
General Manager

j/h/
Written at Bismark, North Dakota

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1439X

Date received 5/31/51

Participation

Name and address of applicant

PEARL CHEMICAL DEVELOPMENT CORPORATION
POST OFFICE BOX 77
CAVE CREEK, ARIZONA

Date 26 MAY, 1951

FILL IN THIS BLOCK

Date of application (Informal) 9 October, 1950 Estimated cost $ 25,000.00

Mineral or metal copper, manganese, talc, iron and other rare minerals Percentage of Government participation 75%

Location of mine Cave Creek Mining area, 30 miles N.E. Pheonix Ariz.

Date of filing MF-100 unknown DMA Docket Number, if available unknown

INSTRUCTIONS

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*1. Is applicant an individual, partnership, or corporation? Corporation
*2. If a partnership, state names and addresses of partners. ******
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. * See additional
*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. *See additional exhibit
*5. Are you the owner or the lessee of the property? *Sub- lessee, Original lease see *
6. If owner, state what claims, liens, or encumbrances, if any, are against the property?
7. If lessee, attach a copy of the lease and state if it is in good standing. Lease good standing see*

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract. Necessary releases will be obtained from State of Arizona

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. *New Corporation
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

Will advance sufficient sums

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. *See Exhibit for extensive list

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. *

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. Have several areas to work

*11. State the present and former names of the property, if any. * See Exhib/ hope with own funds

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13. State source and quantity of water available for operations and its sufficiency at all seasons. Unlimited see State amount of power to be used, rate per hour or other cost, and source. Unknown, use own, see *

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. See*m

15. State in detail how the ore could be shipped and how and where milled. Milled on property, truck 50 mi.

16. History: See

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

18. Ore or mineral reserves: (If property is or has been operating.) Est 3,000,000 ton copper and other minerals in addition See

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions. See*

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? See over and *

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Open new deposits

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 18 Months

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. See *

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: See*

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

PEARL CHEMICAL DEVELOPMENT CORPORATION By J. Roberts Hann
(Name of company) (Signature of authorized official)

26 May, 1951 J. ROBERTS HANN
(Date) First Vice President & Gen'l Mgr.
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

May 26,1951

The Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

Gentlemen;

Attatched hereto,please find your Form MF-103 (April 1951), completed to the best of our ability,being an "APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5 UNDER DEFENSE PRODUCTION ACT OF 1950"

Initial inquiry was made October 9,1950, to your Tuscon office, in the name of Mrs. Lelia P. Irish, who holds a 20 year lease on the property in question,granted her by the State of Arizona. She has done considerable work and,with myself,spent sums of money on the property, which has good showings,past and present which we must explore in order to determine their extent.

This Corporation was since formed by her (my Aunt) and myself and additional sums have since been expended,but sufficient assets of cash are not available to complete the exploration. She will assign her lease to property in question,as well as other leases, claims,patents filings,etc., which she will assign to this Corporation. Additional cash assets are being obtained to assure ample compliance with any contract this Corporation may enter into.

The balance of this communication will consist of answers to Form MF-103 where space did not permit:-

#3

Names and addresses of officers:- President, Mrs. Lelia P. Irish Box 77, Cave Creek,Arizona—, J.F. MacNeil, Vice President and resident Chemist, J.Roberts Mann, First Vice President,of Cave Creek and Chicago.
These three, together with Mr.E.D.Carpenter of Cave Creek Arizona and The Otis Mann Company, Inc., of Chicago Illinois, are the ~~three~~ five largest stockholders at present. A stock selling-money raising plan has not yet been undertaken ~~as yet~~.

#4

The applicant is a new Corporation, with no previous experience, BUT all persons associated have had mining experience, as well as general business experience:--Mrs. Irish for about 20 years has worked this and other mining preoperties in this vicinity, with a total time of 40

years of pospecting and mining experience.During this time she has also operated several other successful commercial ventures.

Dr. J.F.Mac Neil ~~has~~ ,since retiring from active practice,has devoted his successful attentions to minging and a knowledge of minerals, and chemicals, and is thoroly familiar with this project.

Mr. Carpenter has had a wide experience, both in industry and mining, and it is understood that his father many years ago was interested in the subject property,and others in the mining district.

J.Roberts Hann has had extensive experience in the field of finance, and for several years was president of two mining companies in Illinois. These companies were mining coal, but primarily were producing high-grade refractory fire clay, extensive deposits of which are believed to be on this property.

Other miners and engineers familiar with this and ajdacent claims will also be employed as funds are available.

--5--

Applicant is not the owner. However, this is state land, and the State of Arizona has ~~about~~ a year ago, granted a 20 year lease to Mrs. L.P.Irish, which lease is being assigned to this Company, and after reading the instructions for completing this application, as well as other explainations from your Department, we feel that there will be no difficulty in obtaining proper releases from the State of Arizona. Until making a trip to Denver the writer was not aware of the need for certain releases.

-- --7--

As above stated, complete releases are not available but will be obtained from the State of Arizona, and will be ready to attatch to such contract as you may provide this Copporation. We feel certain that their claim to this property is clear of liens and attachments.

--8--

Financial statement. This being a new organization, it may merely be said that it has NO liabilities (other than bookkwwping entries of stock outstanding), has ~~cash assets not of less than $100.00 in bank, and~~ ahout $5,000.00 cash assets.(~~Correct~~ cash bank balance to less than $ 1,000.00). Considerable sums have been expended by the various individuals, which redound to the benefit of the newly prganized company but which have not as yet been run through its books. It therefore cannot make a Profit and Loss Statement

--9--

Additional money to operate. Corporation ,and its backers as stated above have devoted considerable funds already, in the hope of being able to complete the exploration and development work without recourse to outside funds. This it seems is not possible, but the Corporation is assurred of considerable cash when needed provided this Federal Aid is granted. At least fifteen to twenty thousand dollars should be available. The company will have funds adequate to meet the requirements of the application, as indicated from present committments of purchase of stock of the Company.

--10--

—10—

(a) Subject property, Known locally as "Copper Top," is in Cave Creek mining district, some 30 miles northeast of Pheonix Arizona. On the property are considerabl old workings, shafts tunnels, dumps, parts of assay office, loading docks, mill, and numerous explorations with good but weathered showings. Also several "kidneys" as yet unexplored and numerous veins running from the main workings—the latter above the type of ores exposed. In addition there are several pieces of equipment, trucks, large and small, generators pumps etc. The showings are easily accessible to exploration.
(b) Legal description—"Copper Top", located by Lelia P. Irish June 19, 1950, recorded Book 571, Page 377, Maricopa Country Arizona. Leased by State Land Dapartment, No.47417-S Sept.18, 1950 to Lelia P. Irish for a period of 20 years with option to renew, covering 20 acres, being the West ½ NW ¼ NW ¼ Sec. 36. T 6 N R 3 E S.R.B.& M., Maricopa County, Arizona. There are also 3 Prospecting Permits on 3 adjoining claims which may be included in this operation. There are also other adjoining claims all contiguous, with good showings.

—11—

Present Name-COPPER TOP known previously as follows
Kentucky Arizona Copper Co. Rec rded 2/9/09 Bk19 p573
Copper Top Group, Affidavit of Labor 227/09 Bk 19, p598
Cloudy Day-J.R.Cox Rec 3/2/14 Bk 22 p 400
Pheonix # 13-14-15-16 (M.A.Cox et al Rec 8/9/15 Bk 22 p482-4
Big Dick and Black Jack Rec 7/14/1916 B 23 p 144-5
Copper Top—L.P.Irish as in 10-(b) – 6/19/50 B 571 – p. 377

—12—

This property, located in the Cave Creek Mining District, 30 miles NE Pheonix Arizona, is 1 miles from County Hiway known as New River Cutoff, thence east 4½ miles over this fair gravel road to Cave Creek Road paved all but 7½ miles to Pheonis. County asserts this 7½ miles to be paved this summer—also to improve 4½ miles of New River Cutoff whenever this Company begings heavy use. (We have dozer etc to keep road passable until improved). It is 7 miles, East and north to Cave Creek Postoffice. Shipping is by truck, to Pheonix 30 mi., or smelter 50 mile (to points east of Pheonix via good desert roads avoiding city traffic). Haul is downhill. Custom carrier now hauls for neighboring workings. We have trucks to rent at consierable savings.

—13—

Sources of water, include ample supply from windwill 1½ miles, keeps 7,500 gal tank full, also water on our other property. These require tank truck which is available for rent. Main prospective supply is 40 feet of water in bottom of abandoned shaft on property. We need funds to acquire pipe, and pumps, tho some equipment now owned. We need some priority to obtain some equipment. At present, water no problem. Since mostly free flowing, cost is merely transportation by our 1000 gallon tank truck with removable body, thus releasing same for other work, such as hauling tools equipment, powder, generating electricy from power take-off etc.

—14—

Existing equipment and facilities described above.

--15--

Ore can be shipped as above, by custom truck or our own dump truck, about 50 miles to ore buyers. It can be milled on our property, as mill once stood on property. Also, local group of other operators, are interested to considerable extent in assisting in raising funds to build mill (custom) on our property. This company would operate same at profit on overall operation thereof, and savings in its own milling costs. Expect will be built by October.

--16--

History(a) This, and our other properties, and adjoining claims, have long history of operation for over 50 years, at which time most emphasis was placed on Gold. Old Apache Trail crosses over our land, and many indications are exposed, but weathered from former operations. Copper Top was worked heavily for gold, but finally abandined after falling into hands of stock promoters, who left when water filled 40 feet of shaft, and pumping prooved too costly with wood burning steam engines--and wood ran out, and water pumped from mine prooved to contain sufficient copper to ruin boilers. Physical evidence of this remains, as well as a number of elderly miners residing in vicinity who worked those parts.
(b) Little is known of actual production other mines this area as most owners will not reveal results their operations. It is known that custom truck is frquently seen on main hiway,loaded.
(c) Documentary evidence not available to me at time and place of this writing, as have not returned to Pheonix since visit your Denver office. Present shafts, drifts ,explorations and kidneys invite further exploration, which is going on this time. Interesting samples assayed and/or spectrographed are encourageing--hence our continued investment of cash presently and prospective, in addition to proceeds this Aid.

--17--

At present this property not in production due to desired further exploration and discovery of almost certain deposits.

--18--

Ore, or Mineral Reserves. The amounts,of vaious grades and types of ores and Minerals is presently unknown to me, from records at hand,but memory serves to indiate several millions of tons of copper assaying neighborhood $30.00 per ton, (net to Company $20.00). There seems an unlimited amount of high-grade refractory fire clay. Further information can be forthcoming in future communications.

--19--

I have reason to believe that there are numerous deposits of rare minerals and ores on this property, which were overlooked when worked years ago in search ONLY of Gold and Silver.

--20--

As above indicated, tests, samples assays and spectrographs lead this company to conclusion that explorations should be made for MANGANESE MICA, TALC, QUARTZ CRYSTALS, GOLD,SILVER,COPPER, IRON,ALUMINUM,BARIUM, CHROMIUM,COBALT,LEAD,NICKEL, AND OTHERS.

—21—

Proposed work is exploration of old working where deposits are known or believed to exist; exploration and opening of new deposits known or believed to exist. The estimated time required will be estimated at between twelve and eighteen months at the most, as it is believed this property contains large and extensive deposits, easily accessable.

—22—

The information required in this question are not available to the writer at the place and time of this writing due to fact that writer is not at the property, having made a trip to Denver to obtain Form 103, and having gone on to North Dakota to attempt to dispose of some preperties to acquire cash funds for further development and exploration of subject property. This information will be provided in an early communication.

—23—

Tabulation of costs, as requested in this Question, subsections (a) to (i) will be in the form of an addenda to this application, or in and early subsequent communication, as the writer does not have all the necessary information at the time and place of this writing.

—24—

Time schedule and projected progress report, must at this time be answered as above in andwer to Question twenty three.

Its is hoped that the presently available information will suffice to permit consideration of this application within the time limits mentioned in your Denver office, to the end that action may be taken within this fiscal year, it being understood that as rapidly as possible and within a short time, you will receive maps, and ther data we have at the Home Office of the Company in Arizona.

Respectfully submitted,

PEARL CHEMICAL DEVELOPMENT CORPORATION,

By J. Roberts Hann

J. ROBERTS HANN, First Vice President, and
General Manager

j/h/
Written at Bismark, North Dakota

STATE LAND DEPARTMENT

Prospecting Permit

Lelia P. Irish of Cave Creek,
State of Arizona, having made application to this Department for a prospecting permit, and having made the proper showing in accordance with the rules of the Department, is hereby granted permission to go upon and prospect for minerals or other valuable deposits on the following described lands, to-wit:

#2 20 acres: West 1/2 of S W 1/4 of N W 1/4 Sec. 36, T 6 N R 3 E. G. & S.R.B.& M

for a period of ninety days from this date.

Provided, that upon the discovery of valuable mineral deposits the said permittee shall immediately place location notices on said lands, and file affidavit of discovery, and otherwise conform to the laws of the State of Arizona.

The permittee agrees that he will abide by all the laws, rules and regulations governing state lands in this state, and deliver possession to lessee at the termination hereof, and that he will not in any manner interfere with or prevent the holder of any agricultural or grazing lease from the full and free use and occupancy of the surface of such lands, and of any water located thereon, save and except only the specific parts of such lands as the said permittee is actually working on at said time.

Dated this ~~[illegible]th~~ 11th Day of January, 1951.

Lelia P. Irish

ARIZONA STATE LAND DEPARTMENT

State Land Commissioner

James R. Burger
Deputy Commissioner

STATE LAND DEPARTMENT

Prospecting Permit

Lelia P. Irish of Cave Creek, Arizona, State of Arizona, having made application to this Department for a prospecting permit, and having made the proper showing in accordance with the rules of the Department, is hereby granted permission to go upon and prospect for minerals or other valuable deposits on the following described lands, to-wit:

#4 #3

E½SW¼NW¼ ; E½NW¼NW¼ - Sec. 36, Twp. 6 N ;. Range 3 E. = 40 acres

for a period of ninety days from this date.

Provided, that upon the discovery of valuable mineral deposits the said permittee shall immediately place location notices on said lands, and file affidavit of discovery, and otherwise conform to the laws of the State of Arizona.

The permittee agrees that he will abide by all the laws, rules and regulations governing state lands in this state, and deliver possession to lessee at the termination hereof, and that he will not in any manner interfere with or prevent the holder of any agricultural or grazing lease from the full and free use and occupancy of the surface of such lands, and of any water located thereon, save and except only the specific parts of such lands as the said permittee is actually working on at said time.

Dated this January 16, 1951.

Lelia P. Irish

ARIZONA STATE LAND DEPARTMENT

State Land Commissioner

James R. Bunger

Deputy Commissioner

CERTIFIED COPY

~~ORIGINAL~~

Type of Lease Mineral Lease No. 47417-S

State Land Department

STATE OF ARIZONA

MINERAL LEASE

Copies Sub #1

This lease made and entered into this 18th day of September, 19 50, by and between the State Land Department, party of the first part, hereinafter called the lessor, by reason of the authority vested in it by the Arizona Code Annotated, 1939, as amended, and LELIA P. IRISH party of the second part, hereinafter called the lessee.

W I T N E S S E T H :

The lessor has this day leased to the said lessee, for and in consideration of the rental, royalties, covenants, stipulations and conditions hereinafter contained, and hereby agreed to be paid, observed and performed by the said lessee, for the purpose of extracting and shipping ores and mineral substances from or under the following land to-wit:

Name & Number of Claim	Description	Section	Township	Range	Acreage	Grant	Amount
See Insert Sheet for Description							

containing 20 acres, more or less, with a total annual rental of FIFTEEN AND 00/100 Dollars

TO HAVE AND TO HOLD the same for the period ending the 17th day of September, 19 70

This lease confers on the lessee the right:

1. To extract and ship minerals, mineral compounds and mineral aggregates, herein also called "minerals" or "ore", from the property above set forth located within planes drawn vertically downward through the exterior boundary lines of each claim;

2. To use so much of the surface as may be required for purposes incident to mining; and

3. Of ingress to and egress from other state lands, whether or not leased for purposes other than mining.

The lessee hereby agrees to pay or cause to be paid to the State Land Commissioner, annually in advance, a rental of $15.00 per annum for each claim or fraction thereof, which shall be credited upon the royalties hereinafter provided, which may become due during such year.

COPY

The lessee further agrees to pay as royalty 5% of the net value of the minerals produced from the leased premises, which net value shall be the gross value after processing, if processing is necessary for commercial use, less the actual cost of transportation from the place of production to the place of processing, less costs of processing and taxes, if any, levied and paid upon the production thereof. In the case of minerals not processed for commercial use, the net value shall be the gross proceeds, or gross value at the place of sale or use, less the actual cost of transportation from place of production to the place of sale or use, less taxes, if any, levied and paid upon the production thereof.

The lessee shall keep an accurate account of said operations showing the amount of mineral mined or extracted and all mineral shipped, smelted, used, or disposed of, the cost of such operations, and the gross value of the output of the minerals at the mine. The State Land Commissioner and other proper representatives of the department shall have the right at all times during the existence of this lease, and for six months thereafter, to make such reasonable examinations of the papers and books of account of the said lessee and of the mines as may be necessary to obtain all information desired.

This lease confers the right to the lessee to construct necessary improvements, including the installation of necessary machinery and equipment, with the right to remove the same upon the expiration, termination, or abandonment of the lease, if all monies owing to the state under the terms of this lease have been paid. There is hereby created a lien on all implements, tools, movable machinery, and other personal chattels belonging to the lessee and used in the mining operations, and upon all minerals obtained from the land leased herein, as security for the payment of all monies owed the state under the terms of this lease.

The lessee agrees that, should he sell, mortgage, or assign this lease, it will be without prejudice to the state, and that such transaction shall not become effective until a copy thereof is filed with the State Land Commissioner and his written consent thereto secured.

The lessee may, however, surrender the lease for cancellation with the consent of the lessor, and all royalties and other obligations due and accrued to date of completion of application for cancellation, in addition to a fee of One ($1.00) Dollar, must be paid and discharged before such an applicantion for cancellation will be considered, provided that, if the lease has been recorded, the lessee or assignee shall execute a release, record the same in the proper recording office and file the release with the State Land Commissioner. An application for cancellation will be considered as completed on the date such application is filed in the office of the State Land Commissioner provided the foregoing requirements have been fully observed.

In the event of failure or neglect of the lessee to perform any obligation under this lease, the lessor shall have the right at any time to cancel this lease unless, within thirty (30) days after notice specifying the terms and conditions violated, the lessee shall correct such failure and make good any loss caused thereby.

The lessee agrees to perform the annual labor, as required by the laws of the United States, upon each claim, commencing at the expiration of one year from the date of location, and that he will furnish proof of such annual labor to the State Land Commissioner.

The lessee agrees to fence all shafts, prospect holes, adits, tunnels and other dangerous mine workings for the protection of livestock.

This lease is made and accepted subject to existing law and any laws hereafter enacted, also to the regulations relative to such leases heretofore or hereafter prescribed by the lessor; and in no event shall the state or the lessor be liable in damages or otherwise under the provisions hereof.

The lessee shall not keep livestock of any kind on the lands leased herein except by permission from the State Land Commissioner at such rates as may from time to time be established.

The lessee has the right, under this lease, to the cutting and use of timber and stone upon the claim, not otherwise appropriated, for fuel, construction of necessary improvements, or for drains, roadways, tramways, supports, or other necessary purposes; provided, that nothing herein contained shall be construed to permit the cutting of timber for any purpose without the written consent of the State Land Commissioner.

It is understood and agreed that this lease is made subject to all legally established rights of way herefore granted or that may hereafter be granted over and across such land; and the lessee agrees to respect the property rights of all persons lawfully upon the demised premises.

It is expressly understood and agreed that there is reserved to the state the right to lease, under existing law or laws hereafter enacted, so much of the surface of the lands covered by this lease as is not actually used or necessary for mining purposes.

The obligations and agreements hereinbefore expressed shall extend to and be binding upon the successors in interest of the parties hereto.

IN WITNESS WHEREOF, the lessor has caused these presents to be signed by the legal representative of the State Land Department, at Phoenix, Arizona, and the lessee has hereunto affixed his signature at the place and on the day and year first above written.

STATE LAND DEPARTMENT

By (Stamped) W. W. Lane
State Land Commissioner.

By (Signed) James R. Burger
Deputy State Land Commissioner.

(SEAL)

SEAL OF THE STATE LAND DEPARTMENT
OF THE STATE OF ARIZONA

(Sign Here) (Signed) Lelia P. Irish

This lease is
issued in duplicate.

Party of the Second Part

STATE LAND DEPARTMENT

PHOENIX, ARIZONA

CERTIFIED COPY

SUPPLEMENT TO

LEASE NO. 47417

LELIA P. IRISH
Box 77
CAVE CREEK, ARIZONA

SHEET _____ OF _____ SHEETS

GR.	DESCRIPTION	SEC.	TWP.	RANGE		ACREAGE	IMP.
S	W½NW¼NW¼	36	6 N	3 E		20.00	

(Signed) Lelia P. Irish 10/4/50 (Signed) James R. Burger 10/4/50

SIGNATURE OF LESSEE DATE Deputy STATE LAND COMMISSIONER DATE

ASSIGNMENT OF LEASE

Phoenix, Arizona.....

The application of.....

for permission to assign Lease No..... and the application of.....

.....for the assumption of said Lease, having been

duly considered this.....day of....., 19.....

and without waiver of State rights which may exist against the lease assigned, and with this consent not to be construed as initiating any new rights in assignee of lease, consent is hereby given for the assignment applied for and it is ordered that the said Lease No..... and all rights thereunder be and are hereby transferred to the said .....

.....
State Land Commissioner.

By .....
Deputy State Land Commissioner.

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Phoenix, Arizona.....

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State Land Commissioner.

By .....
Deputy State Land Commissioner.

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.....
State Land Commissioner.

By .....
Deputy State Land Commissioner.

STATE OF ARIZONA)
MARICOPA COUNTY (SS

I, James R. Burger, The duly appointed, qualified and acting Deputy State Land Commissioner of the State of Arizona, do hereby certify that the foregoing is a true and complete copy of that certain instrument known as Lease No. 47417-S, dated September 18, 1950, and expiring September 17, 1970, all of which is shown by the records of the State Land Department.

WITNESS my signature, together with the official seal of the State Land Department of the State of Arizona, to this certificate this 5th day of June, 1951.

James R. Burger
Deputy State Land Commissioner

REPORT ON

PEARL CHEMICAL DEVELOPMENT CORPORATION

The property embraced in this report is situated in the Cave Creek Mining District, approximately seven miles by road or four miles in an airline westerly from the town of Cave Creek, the latter being about 28 miles northeast of Phoexix, Arizona. Seven of the 21 mining claims in the group are patented, eight are located on Federal land and six on State land. Total acerage involved is approximately 400.

The surface formation in the area covered by the claims is composed of rhyolite, dacite and andesite in the higher elevations, and, lower in the flat areas, by loose sand, gravel and quartz-jasper fragments, carried down from higher elevations. Undoubtedly the igneous rocks extend under the latter, as is indicated in various washes. The igneous rocks have undergone much shearing, especially so in the areas of greatest mineralization. However, some massive dacite and andesite, between areas of shearing, were observed. The strike of the schistosity varies from North 30 degrees to 40 degrees East, and the average dip is vertical, varying only slightly either way.

Two distinct mineralized areas, with copper indications, the Knob Hill and the Copper Top, were studied in detail. Other areas containing minor amounts of copper carbonates were deemed of insufficient importance to warrant any further study. In all cases the copper occurs in a highly sheared siliceous material with the copper carbonates occuring in quartz seams, and as films on the faces of fractured rock, and but rarely as a constituent of the rock.

Knob Hill. See Plat 1.

This deposit of copper occurs on the top of a hill overlooking the remaining property. A shaft, 4ft.x 3ft. was sunk to a depth of 12 feet, in the most promising mineralization. All the material removed from the shaft is still on the dump, with the graded ore in a separate pile. The mineralized zone, in which the shaft was sunk,

is four feet wide and dips practically vertical. Strike is North 30 degrees East. Both walls of the zone are well defined, but not mineralized. All copper mineralization occurs in quartz seams and in fractures between quartz fragments, with gouge material between the seams. The copper in the ore on the dump is in the form of carbonates and silicates, mostly as films on fractured quartz. Minor amounts of copper carbonate occurs in the surface rock, in the shear zone, for a distance of 50 feet from the shaft in the northeasterly direction. At this point the slope of the hill drops off sharply, and, in effect, exposes the shear zone at a much greater depth than is exposed in the bottom of the shaft. No mineralization, in the form of copper carbonate or oxidized material is present beyond this point, indicating a very limited area of mineralization in the vicinity of the shaft. Much the same surface contour exists southwesterly from the shaft, but with no copper carbonates present at any point in this direction. All of which is indicative of a very limited area of mineralization, both horizontally and in depth. It would thus appear that further exploration at this site is not warranted.

Copper Top. See Plat 2.

The zone of mineralization in this area extends over a length of approximately 1200 feet. All the promising areas on the surface have been explored. Although definite hanging- and footwalls are present in areas formerly worked, it is felt that the designation of "zone", rather than "vein", is preferable, inasmuch as the walls are in evidence over relatively short distances; the intervening areas being marked by shearing only.
Much of the 1200 feet of the zone is barren of all mineralization, although the zone can be traced on the surface. The width of the zone varies from four feet to practically only a slight evidence of its presence. The average strike is North 50 degrees East, and the dip vertical, or only a few degrees either way.

The most encouraging occurrence of copper is in and

near the main vertical shaft, located at the northeast end of the zone. The shaft was sunk from the top of a hill, in the zone where the mineralization, consisting of stringers of copper carbonates, extends over a four-foot width. A tunnel, driven in a northeasterly direction, intersects the shaft at the 50-foot level, 140 feet from its portal. It was driven past the shaft, but is inaccessible due to the condition of the shaft. The tunnel picked up the zone 127 feet from the portal, and, presumedly, continues in the zone past the shaft. A winze was sunk off the tunnel at the point where the shear zone was intersected, and, by reflected lamp light, it appears to be at least 40 feet deep, and that some stoping may have been done between it and the shaft, some 30 feet below the tunnel level.

The mineralized area between the winze and shaft on the tunnel level is practically completely oxidized and leached, only copper stain remaining on unaltered quartz fragments and wall rock. No sulphides were noted in any of the workings or on the dump.

As noted on Plat 2 some shallow work was done at various points in the zone in its southwesterly extension. At the extreme end a shaft was sunk, and reportedly is 138 feet deep. Apparently some stoping had been done near the surface. The shaft timbers have either caved in or have been removed. Except for the first 20 feet, in and near the shaft, all workings are inaccessible. All vein material is completely oxidized, as is much of the material on the dump, some of which contains copper carbonates. The mineralized zone in this area averages four feet in width and the dip vertical, with a tendency toward the southwest.

Based on verbal reports from old timers, mining activity in this area was suspended about the year 1910, when the pump was unable to cope with the flow of water encountered in the main shaft at about the 300-foot level. The pump, according to reports, is still at the bottom of the shaft. These same sources credit the mine with some ore production, mined below the tunnel level, and from workings in the southwesterly end of the zone. At the present time water stands in the shaft at about 210 feet below the tunnel level, which would indicate about 40 feet of water in the shaft.

All of the shaft timbers, from the collar to perhaps the 30-foot level have either been removed or are hung up in the shaft above the tunnel level. The timbering from the tunnel level to the present water level is unsafe, so no examination was possible below the tunnel level. A 4-inch water column, from the tunnel level down, appears to be intact, as does a ladder in the manway of the shaft.

In view of the oxidized and leached condition of the mineralized areas in the zone, both at the intersection of the main shaft and tunnel, and at the southwesterly end of the zone, it would be logical to assume an enriched area at or near the horizon where water was first encountered in the shaft. The areas of oxidation and leaching are not extensive, and the original copper content of the primary ore is unknown.
Much of the material on the dump at the main shaft consists of non-mineralized rock. Presumably this was the last rock to be hoisted. This would indicate one of two conditions: either the shaft passed out of the oxidized zone in its downward extension, or the oxidized zone did not extend to the bottom of the shaft. The former condition appears the most logical, inasmuch as a dip of the foot-wall of only two degrees would put the vertical shaft out of the mineralized zone some distance above the present bottom.

The relatively limited area of oxidation and leaching, insofar as it relates to commercial copper deposits, is a factor which must be considered. From a study of the presently available areas one must conclude that large orebodies at depth are not to be anticipated.
Even though the indications for a copper deposit are considerably more promising on the tunnel level than they are directly above, on the surface, one cannot assume that that condition will progressively improve with depth.

The present condition of the main shaft, as far

down as a reflected light indicates, is such that it could be reconditioned at little expense. As stated above, the water column in the shaft appears to be intact, and could be put into service again. The advantage of an existing shaft making available a study of geological conditions 250 feet below the presently observable workings, is apparent. With the shaft reconditioned, at least on the tunnel level, one could determine the exact area of mineralization at that point; it undoubtedly extends farther northeasterly, on the tunnel level. Any information obtained at the bottom of the shaft could reasonably be applied to conditions existing at a similar elevation below the workings at the southwesterly end of the zone.

A breakdown of the estimated cost to unwater the shaft is as follows:

Put collar of shaft in a safe working condition, and remove all loose material and timber now in the shaft above the 50-foot level:

Material (lumber, cement, etc.)	$400
Labor	600
Generating plant, consisting of a D.C. 12 KVA Generator, Diesel engine, wires, 3inch pipe, etc.	1000
(A Diesel Generator unit in good condition is available at $450, original cost of which was $2000). Labor to install same	500
Pumping equipment (on rental-purchase basis) with necessary wiring, etc., and labor	- 1000
Total cost	$3500

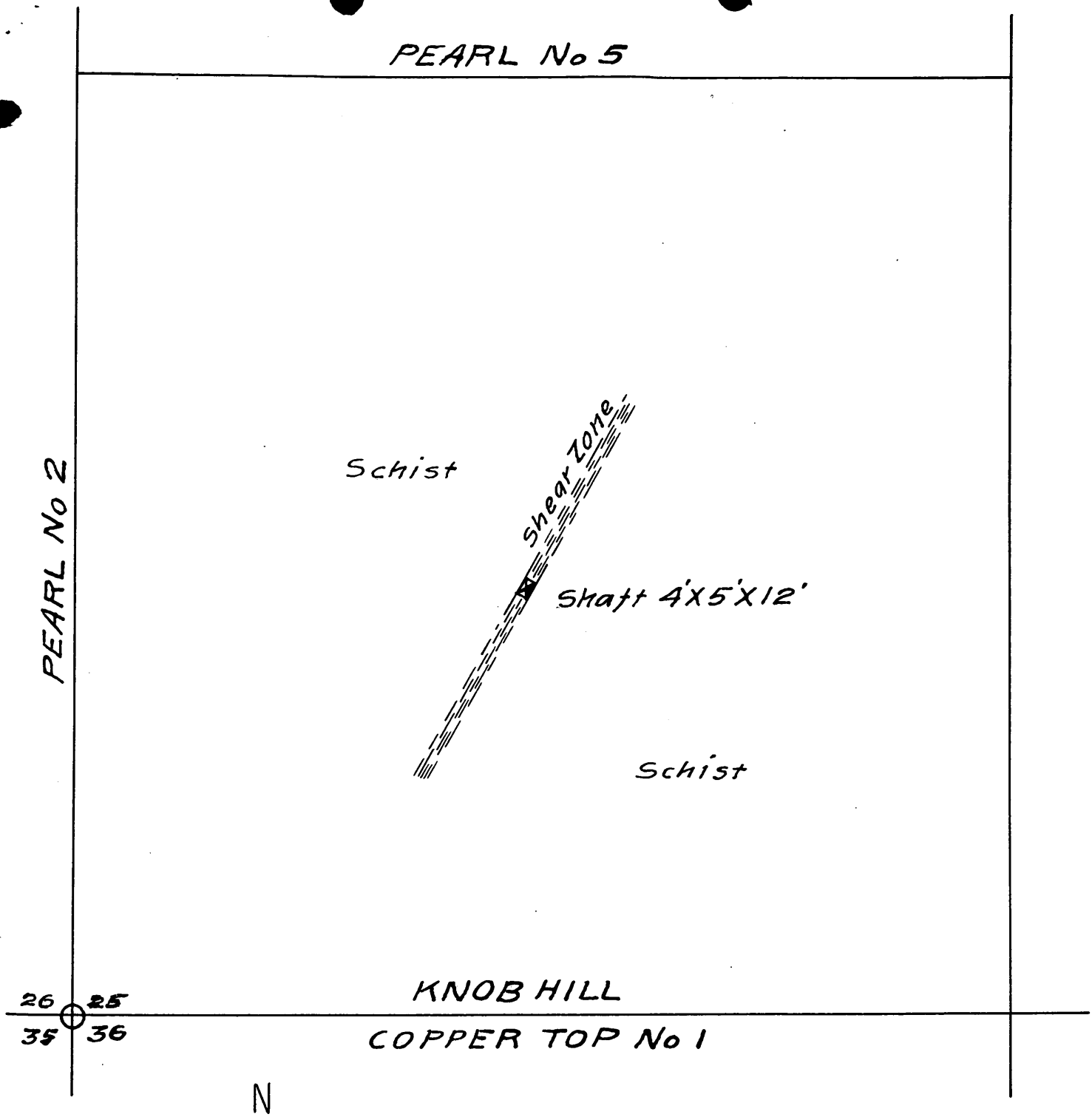
It should be stressed that no official ore production records are at present available. Any data, relative to tonnage and grade of ore mined, would be an important factor in arriving at a final decision on future activities. Every effort has been made to obtain such data but it is not available. Even if it should indicate only a small tonnage of commercial ore mined, at any point below the tunnel level, one could feel justified in initiating an exploration program, the first step of which would involve the reconditioning and dewatering of the main shaft.

Phoenix, Arizona
Feb. 9, 1952

Oscar G. Engelder

Oscar G. Engelder

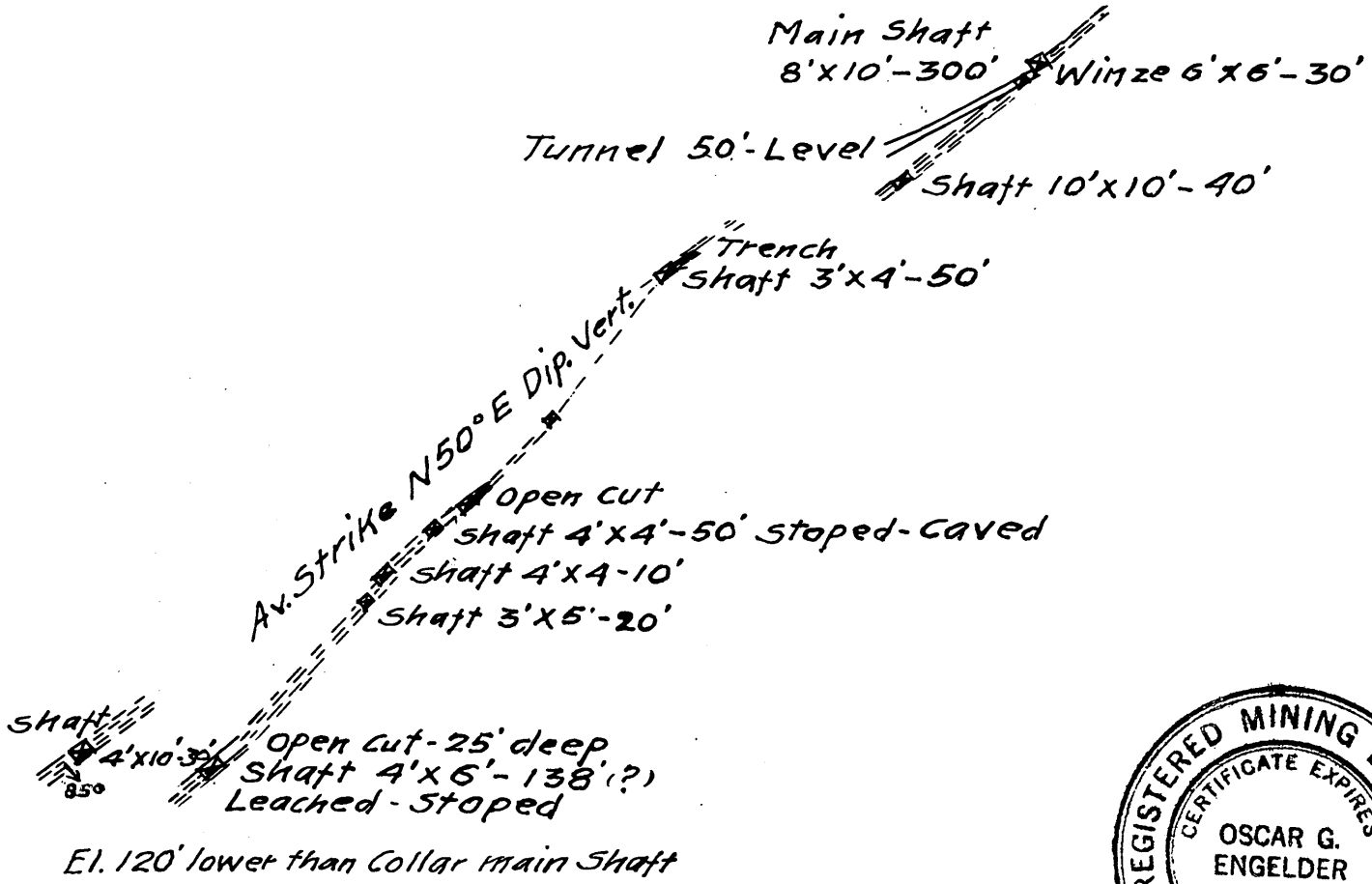
REGISTERED MINING ENGINEER
CERTIFICATE EXPIRES
OSCAR G. ENGELDER
DEC. 31, 1962
ARIZONA, U.S.A.



KNOB HILL COPPER OUTCROP

Scale: 1"=100'

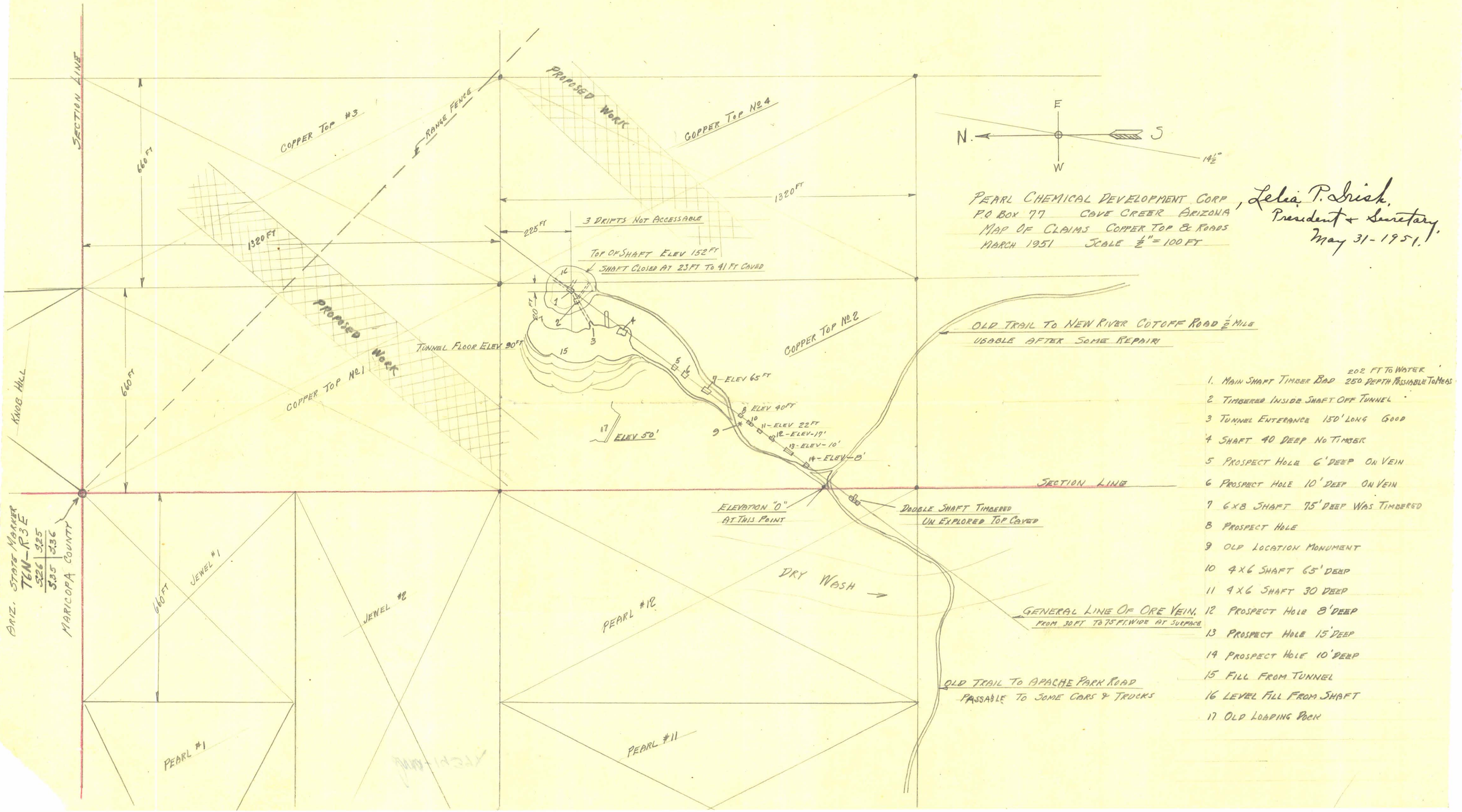
PLAT 1



COPPER TOPMINE

Scale: 1"=200'

PLAT 2



PEARL CHEMICAL DEVELOPMENT CORP, Lelia P. Grisk, President + Secretary.
P.O. BOX 77 CAVE CREEK ARIZONA
MAP OF CLAIMS COPPER TOP & ROADS
MARCH 1951 SCALE ½" = 100 FT
May 31 - 1951.

1. MAIN SHAFT TIMBER BAD 202 FT TO WATER 250 DEPTH POSSIABLE TO MEAS
2. TIMBERED INSIDE SHAFT OFF TUNNEL
3. TUNNEL ENTERANCE 150' LONG GOOD
4. SHAFT 40 DEEP NO TIMBER
5. PROSPECT HOLE 6' DEEP ON VEIN
6. PROSPECT HOLE 10' DEEP ON VEIN
7. 6x8 SHAFT 75' DEEP WAS TIMBERED
8. PROSPECT HOLE
9. OLD LOCATION MONUMENT
10. 4x6 SHAFT 65' DEEP
11. 4x6 SHAFT 30 DEEP
12. PROSPECT HOLE 8' DEEP
13. PROSPECT HOLE 15' DEEP
14. PROSPECT HOLE 10' DEEP
15. FILL FROM TUNNEL
16. LEVEL FILL FROM SHAFT
17. OLD LOADING DOCK