DMEA Form 1

DEFENSE MINERALS EXPLORATION ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA Docket No. 4507

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Routing Slip

To:	500	Date	10/24/56
To:	CJM	Date	10-31-56
To:	Base Metals	Date	10/31/56
To:	Oper Com	Date	11-16-56
To:	F. E. Johnson	Date	11-16-56
To:	CJM	Date	11-16-56
To:	Base Metals	Date	11/19/56
To:		Date	
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File Copy
Surname
Klugescheid
Johnson

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

DEC - 5 1956

Mr. B. W. Copeland, Partner
Green Monster Mining Company
311 South Montezuma
Prescott, Arizona

Re: Docket No. DMEA-4507 (Copper)
Green Monster Mining Company
Green Monster Prospect
Yavapai County, Arizona

Dear Mr. Copeland:

We refer to your letter to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, dated November 24, 1956.

Inasmuch as you have leased your property to people who will not require DMEA assistance, we are considering your application as having been withdrawn and are placing it in our inactive files.

This action is taken without prejudice to your proposed project. If at some future time you desire to reopen this case, you may do so by filing a new application, referring to the subject application by the DMEA Docket No., and furnishing any additional information which you think might be helpful that may have become available during the interim.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 12/4/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Chron.
Region III (2)

RCS.

400

Chapman
Martin
Champion
Selfridge
Holman
Mottendorf

Mr. Spencer Vicker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4165 - Tungsten
Nevada Scheelite Corporation
Nevada Scheelite Mine
Mineral County, Nevada
Contract No. Idm-3961

Dear Mr. Vicker:

Reference is made to the subject Operator's letter of November 14, 1956, advising you of the work completed during the month of October, the cars of ore saved from this work, and their grades. The attached royalty statement reported the value of the total tonnage of ore mined and milled, and the proportionate value of the ore from the DMEA work.

We agree that the method used for computing the royalty may be fair, but apparently the price received per unit was only $33.022. We would appreciate your determining if possible the mill saving, grades of concentrates and tailings, and any penalties. While we do not need to see all the Settlement Sheets in cases where the price received is apportioned between DMEA and non-DMEA production, we do require more detailed settlement data.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

TLChapman:am 12-4-56

cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
Messrs. R. Holliday, USBM
T. H. Kiilsgaard, USGS
FT. REG. II

R.G.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

December 4, 1956

Memorandum

To: Chief, Operations Control and Statistics Division

From: Chief, Base Metals Division

Subject: Withdrawal of Docket No. DMEA-4507
Green Monster Mining Company,
Green Monster Prospect,
Yavapai County, Arizona

Please be advised that application DMEA-4507, Green Monster Mining Company, should be withdrawn as the Applicant has leased its property and will not require assistance at this time.

W. R. Griswold

W. R. Griswold

File Copy
Surname
Klugescheid.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

December 4, 1956

Memorandum

To: Chief, Operations Control and Statistics Division

From: Chief, Base Metals Division

Subject: Withdrawal of Docket No. DMEA-4507
Green Monster Mining Company,
Green Monster Prospect,
Yavapai County, Arizona

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W. R. Griswold

W. R. Griswold

WPKlugescheid/er

Copy to: Docket
Base Metals
Chron.

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

RECEIVED NOV 30 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

November 27, 1956

Docket

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4507 (Copper) Green Monster Mining Company, (Green Monster Prospect), Yavapai County, Arizona

Attached are two photocopies of a letter dated November 24, 1956 from the applicant on the subject docket requesting suspension of action thereon.

Please advise us of your action on the request.

W. M. Traver

W. M. Traver

Attachments

311 So. Montezuma St.,
Prescott, Arizona
Nov. 24, 1956

DMEA
DEPARTMENT OF THE INTERIOR
NOV 26 1956
REGION III
DENVER, COLORADO

Mr. W. M. Traver,
Executive Officer,
DMEA Field Team, Region 111
224 New Customhouse Bldg.,
Denver, 2, Colorado

Dear Mr. Traver:-

Our assistance application under your docket given below has been referred to you, according to letter of Nov. 16th from Washington signed by the Administrator, Mr. C. O. Mittendorf. Meantime we have arranged lease with some people who have their own finances and machinery, to explore and develop our property.

Will you therefore suspend action on our application until further notice? We regret the inconvenience we have caused the Department and want to thank you and the others involved for the interest shown.

Very truly yours,

B. W. Copeland

B. W. Copeland

Re: Docket No. DMEA-4507 (copper)
Green Monster Mining Company
Green Monster Prospect
Yavapai County, Arizona

Region III

Docket

Building 20
Denver Federal Center
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
NOV 22 1956
REGION III
DENVER, COLORADO

November 21, 1956

Memorandum

To: W. R. Storum

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4507 (Copper) Green Monster Mining Company (Green Monster Prospect) Yavapai County, Arizona

Enclosed please find the application for Green Monster Mining Company, Docket DMEA 4507, in the amount of $14,765.00.

A field examination and suitable report are required. The completed report should be forwarded directly to the Executive Officer with a copy of the memorandum of transmittal to this office.

W. H. King

Enclosures

cc: W. M. Traver (3)
E. N. Karshman
W. L. Emerick
See Op. Comm (2)

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

224 New Customhouse
Denver 2, Colorado

November 20, 1956

Memorandum

To: W. H. King (2) (w/brochure)
W. L. Emerick

From: DMEA Field Team, Region III

Subject: Docket DMEA No. 4507 (Copper) Green Monster Mining Company (Green Monster Prospect) Yavapai County, Arizona

Enclosed is the subject application with supplemental correspondence relative thereto, for exploring a copper project by shaft deepening, drifting, and surface drilling, at a total cost of $14,765.00.

Also enclosed are copies of a transmittal letter to the Executive Officer of the application, by the Chairman of the Operating Committee, and memoranda of review by J. W. Pennington, U.S.B.M. and N. E. Nelson, U.S.G.S. A field examination and suitable covering reports are requested.

Your particular attention is directed to all the items mentioned in the Chairman's transmittal letter. If it is decided that as a result of the examination, a project is to be recommended and you will advise this office as soon as possible thereafter, we will arrange to obtain the Owner's Consent to Lien, required by Item II.

Please return the brochure with your Report of Examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M Traver
Executive Officer

Enclosures

WMT:ytl
cc
Sec. Op. Comm. (2)
Harshman
Docket 4507
Chron.

File Copy
Surname
Klugescheid
Simmons
Lamb
Williams
Selfridge
Fitzsimon

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

NOV 16 1956

Mr. B. W. Copeland, Partner
Green Monster Mining Company
311 South Montezuma
Prescott, Arizona

Re: Docket No. DMEA-4507 (Copper)
Green Monster Mining Company
Green Monster Prospect
Yavapai County, Arizona

Dear Mr. Copeland:

We have received your letter, dated November 4, 1956, containing the information requested in our letter dated October 31, 1956.

Your application for Government assistance to explore the cited property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration and has been referred to:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 11/15/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region III (2)
Chron.

File Copy
Surname
Klugeschard
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Selfridge
Fahrner
Mittendorf

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

NOV 16 1956

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

Re: Docket No. DMEA-4507 (Copper)
Green Monster Mining Company
Green Monster Prospect
Yavapai County, Arizona

Dear Mr. Traver:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

We are enclosing copies of the Applicant's answer to our letter requesting further information dated October 31, 1956.

If the project is favorably considered by the Field Team, the following matters should be taken into consideration:

(1) Three bids must be submitted for the diamond drilling. The Applicant will need assistance in determining the size of bit to be used, as Mr. Copeland confesses in his letter that he has not sufficient experience to determine what size would be advisable.

(2) Owner's Consent to Lien will be required.

(3) Evidently the Applicant is planning to drive into the so-called vein or veins on the 100-foot level of the shaft and then go into production. So shallow a shaft will probably not show them anything of value about the deposit and it will almost certainly not provide much of an ore reserve.

(4) During the first World War there was a Green Monster prospect in the general vicinity of this property. It was our impression that it was one of the many promotions which appeared on the strength of the great success of the United Verde Extension. We could be mistaken about this, but it could have been this same property.

(5) You will note the correction of an error in the data in the fourth paragraph of the reply to our inquiry.

(6) Mention is made of 30 miscellaneous assays @ $3.50. We still do not know what the Applicant is shooting at, even after our inquiry.

(7) The footage for drifting and crosscutting is completely indefinite, due surely to the lack of ability to plan the work.

(8) The costs also demonstrate lack of experience, although the cost per foot figures given in the reply probably are more or less all right.

(9) The higher grade samples are probably of no value as they are almost certainly selected.

(10) If the gossans are as extensive as the geologist alleges they could be interesting and might warrant another plan of drilling.

Copies of memoranda dated October 25 and November 1, 1956, by J. W. Pennington, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the project are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (DLB)

Enclosures

APPROVED:

Frank D. Lamb (DLB)
Member, Bureau of Mines

W. P. Williams (DLB)
Member, Geological Survey

WPKlugescheid/er 11/15/56

Copy to: Docket
admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Chron.

311 So. Montezuma St.,
Prescott, Arizona
Nov. 4, 1956

U. S. Department of the Interior,
Defense Minerals Exploration Adm.
Washington, 25, D.C.

Att. W.R.Griswold, Chief,
Base Metals Division.

Gentlemen:-

Our exchanges regarding our application for aid in exploration project in Yavapai County, Arizona:- Docket No. DMEA-4507 (Copper), Green Monster Mining Prospect, and your letter of Oct. 31, 1956;

I am not a geologist, but have conducted the operations so far and will be in charge of further development work, so will endeavor to answer your questions and to outline the work needed from a practical viewpoint. So far I have made a hand in all the work and have furnished at my own expense practically all the transportation. Other than this I have spent less than $2,000 for all the surveying, staking and filing of claims before we got a ruling that the mineral rights belonged to the owner of the ranch, plus sinking the shaft to 60 feet and drifting some 15 feet, and timbering the shaft to 35 feet. This expenditure included all labor and materials - except my own labor.

Contract basis for sinking a shaft in such ground as we have runs from $45.00 to $50.00 per foot, including timbering, and drifting runs $30.00 to $35.00. In our shaft, I consider that we are in the vein material, although the values are still low. Apparently 20 feet of drifting will put us into the material the old-timer encountered, running good values. However, the geologist believes this would hit the top of the vein and the ore recoverable at that depth would not be worth-while. For this reason we had planned to run the shaft to 100 feet and then drift under the vein, stoping up for the good ore found to be over us at that depth. This will require 40 feet more shaft as the geologist indicated and as inquired of in the 2nd paragraph of your Oct. 31st letter. He also plans 40 feet of crosscutting.

Referring to your third paragraph, you are correct in the opinion that the drill angle should be NW instead of NE as stated. The strike of the two veins indicated runs NE-SW. Definite dip of the vein cannot be determined, since there is evidence of some folding and dislocation. The surface limonite is very red and shows over almost a quarter-section of ground, but it is shattered, in some places appearing schistose. For this reason it is virtually impossible to determine strike and dip of the many veins indicated. The parent rock is porous and I have very strong hope that the mineralization is diffused, so that we may possibly have an open-pit property when it is fully explored. Meantime, I am sure there is sufficient concentration of values in the two vein structures we are after to make them pay as underground operations.

In your 4th paragraph, the assaying would primarily be for copper, silver and gold. However, other metals should be assayed for. I had a test run on the host rock when it became blood-red and heavier. Realizing that many metals have red oxides, I had it run for copper and lead, getting a trace of each. It might of course be a mercurial oxide, or something else. There is also some indication of manganese and possibly tungsten. I do not therefore believe that the estimate given by Mr. Hayes for assaying is at all excessive. As for my part, I should like to have an assay every 5 feet in at least one of the drill holes to determine whether there was diffusion of the mineral-bearing solutions. As to the EX, AX or BX drilling, I am not familiar enough with drilling terms to answer that, but had intended to ask your inspector for suggestions along that line. Drilling in this area seems to run from 1½ to 2 inches where a core is taken, and down to 1 inch where no core is produced and assays are made from the "fines".

My own ideas would be to do some "long-drilling" from the bottom of the shaft when it reaches 100 feet and before spending too much on drilling from the surface. If this told us what we wanted to know about the vein structure in that area, we could then do our deep drilling in other areas of the indicated deposit. I would therefore not want to be put in too close a strait-jacket and required to plan the entire operation in advance; much preferring to have a DMEA man visit from time to time and suggest the next logical step. In other words, I am in no way interested in DMEA money except as an assistance in developing a property in which I have full confidence. If the requirements are going to be such as to prevent, rather than encourage, logical exploration, and the time element bring about indefinite delay, then of course I prefer to part company now. We had felt that DMEA would give us valuable technical assistance as well as financial, and upon this basis made the application. On my own, I do not feel competent to lay out the full program in advance and not be able to adjust it to a logical basis as we learn more about the deposit. I feel sure that the $15,000 we plan to spend will put the mine into production and on a paying basis, but of course I can't guarantee this. This is an isolated deposit and nothing is known about it except for the good copper ore the old-timer threw out, from the work we have done and from the general surface indications.

Will you please pardon me for this extended and frank discussion of the situation, in which I have felt free to make some observations at variance with recommendations of the geologist. You may address future communications directly to me. I would also greatly appreciate a visit from a competent representative of the Department, feeling this would quickly clear the atmosphere, both as to the property and the operator.

Very truly yours,

B.W. Copeland

COPY

311 So. Montezume St.
Prescott, Arizona
Nov. 4, 1956

U. S. Department of the Interior
Defense Minerals Exploration Adm.
Washington, 25, D. C.

Att. W. R. Griswold, Chief,
Base Metals Division

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#2 - W. R. Griswold - DMEA Docket No. DMEA-4507 (Copper)

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Very truly yours,

Signed/ B. W. Copeland

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

IN REPLY REFER TO:

RECEIVED NOV 5 1956 DMEA

November 1, 1956

Re: DMEA 4507
Green Monster Mining Co.
Green Monster Prospect
Yavapai County, Arizona
$14,765.00 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicant requests assistance in exploring by core drilling, bulldozing and underground work a copper-bearing vein alongside, at surface, a basic dike in granite.

The applicant has sunk a 60-foot shaft, vertical and not in the vein, and driven a crosscut to and through the dike. Probably little was learned concerning the vein. Samples taken from a dump show high values in copper -- up to 19.7%. Probably they represent selected vein material.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

November 1, 1956

Re: DMEA 4507
Green Monster Mining Co.
Green Monster Prospect
Yavapai County, Arizona
$14,765.00 - Copper

Memorandum

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Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-11/1/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. W. Pennington, 3623

File Copy
Surname
Klugeescheid -
Johnson
Westerwelt

500

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

OCT 31 1956

Green Monster Mining Company
311 South Montezuma
Prescott, Arizona

Re: Docket No. DMEA-4507 (Copper)
Green Monster Mining Company
Green Monster Prospect
Yavapai County, Arizona

Gentlemen:

We have received your application for aid in an exploration project in Yavapai County, Arizona. Before we can proceed with your application, you should provide us with certain additional information.

We would assume from the report of the geologist that you propose to sink the shaft an additional forty feet. Is this correct? Nowhere in the application has there been any mention made of the footage of exploratory drifting or crosscutting that you plan to do.

Referring to the plan of the proposed core drilling, in the description of this work the approximate bearing of the drill holes is given as N 70° E. Do you not mean N 70° W? What size bits do you plan to use in this work, EX, AX or BX?

Under assaying costs, you mention "30 miscellaneous @ $3.50", but you do not mention what the metal or metals for which the assays are to be made might be.

Costs should be separated so that the cost per foot of drifting and crosscutting will be distinct from the cost per foot of shaft sinking.

We shall hold your application in abeyance until we hear from you.

Sincerely yours,

W. R. Griswold

W. R. Griswold
Chief, Base Metals Division

WPKlugescheid/er 10/30/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region III (2)
Chron.

R.S.

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

RECEIVED
OCT 26 1956

October 25, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4507 (copper), Green Monster Mining Company, Green Monster Prospect, Yavapai County, Arizona. $14,765.00

The applicant proposes to explore the downward extension of a copper vein by deepening an existing shaft 40 feet, an unstated amount of exploration drifting from the shaft, and 1000 feet of surface drilling at an estimated total cost of $14,765.00.

Samples of oxidized vein material from the dump assayed 19.7 and 15.73 percent copper; other samples believed to be vein material assayed 1.8 and 2.08 percent copper.

If the exploration seems warranted, it is believed that surface drilling should be considered as the first step in the program; subsequent exploration could then be based on the results of the drilling.

Additional data is required to evaluate the program. Therefore, it is recommended that the application be referred to the Field Team for appraisal.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

RECEIVED
OCT 26 1956

October 25, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

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J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. B. Lamb
F i l e s

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

RECEIVED
OCT 26 1956

224 New Customhouse
Denver 2, Colorado

October 24, 1956

Docket 4507

Docket

Mr. B. W. Copeland
311 So. Montezuma Street
Prescott, Arizona

Re: Application for DMEA Aid (Copper)
Green Monster Prospect
Yavapai County, Arizona

Dear Mr. Copeland:

This will acknowledge receipt of your letter dated October 23, 1956 relative to the captioned DMEA application.

Should a field examination of your property be required, you will be advised of the date so that you or your representative may be present to accompany the field examiners.

Yours very truly,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA

cc: Sec. Op. Comm. (2)

HMC
Answer
& refer to [illegible]

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OCT 26 1956

311 So. Montezuma St.,
Prescott, Arizona
Oct. 23, 1956.

Mr. E. N. Harshman.
224 New Customhouse
Denver, 2, Colorado

Dear Mr. Harshman:-

You have received from Mr. Hugh S. Thomas, Brownfield, Texas, application for DMEA aid in development of the Green Monster Prospect, a copper property in Yavapai County, Arizona. I am a partner in the project and have conducted the work so far. Also, I will be the one to show you over the property.

I am sure that all your applicants want action within the next ten minutes, and of course we are no exception. However, when your schedule is arranged for visit down here, I would appreciate knowing the date a few days ahead so that I can arrange my own schedule to correspond. Your letter indicating time of such visit will be appreciated.

Very truly yours,

B. W. Copeland

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

October 24, 1956

Green Monster Mining Company
311 South Montezuma
Prescott, Arizona

Subject: DMEA-4507
Re: Exploration Assistance
Green Monster Prospect

Gentlemen

Your application for exploration assistance, dated October 7, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4507 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to:

Region III. Denver 2, Colorado

✓Code 500

3571

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

RECEIVED
OCT 15 1956

224 New Customhouse
Denver 2, Colorado

October 11, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Copper) Green Monster Mining Company (Green Monster Prospect) Yvapai County, Arizona

Enclosed are three copies of the subject application in the amount of $14,765.00. One copy of the application is being retained in our file.

From the Geologic Report attached to the application, the proposed work consists of shaft sinking, drifting, and diamond drilling. No bids for diamond drilling accompanied the application.

DMEA Field Team, Region III

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

224 New Customhouse
Denver 2, Colorado

October 11, 1956

Mr. Hugh S. Thomas
Merriman and Thomas
207 S. Fifth Street
Brownfield, Texas

Re: Application for DMEA Aid
(Green Monster Prospect)
Yavapai County, Arizona

Dear Mr. Thomas:

This will acknowledge receipt of your letter dated September 8, 1956, and four copies of the captioned application.

This application has been forwarded the Washington Office, DMEA, for further processing.

Yours very truly,

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

HMC:ytl
cc
Sec. Op. Comm. (2)
Docket
Chron.

224 New Customhouse
Denver 2, Colorado

October 11, 1956

Mr. Hugh S. Thomas
Merriman and Thomas
207 S. Fifth Street
Brownfield, Texas

Re: Application for DMEA Aid
(Green Monster Prospect)
Yavapai County, Arizona

Dear Mr. Thomas:

This will acknowledge receipt of your letter dated September 8, 1956, and four copies of the captioned application.

This application has been forwarded the Washington Office, DMEA, for further processing.

Yours very truly,

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

HMC:jtl
cc
Sec. Op. Comm. (2)
Docket
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
DMEA
OCT 15 1956
DEPARTMENT OF THE INTERIOR

OCT 11 1956
REGION II
DENVER, COLORADO

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 4507
Metal or Mineral Copper
Date Received 10-15-56
Estimated Cost $14,765
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: B. W. Copeland, Hugh S. Thomas, Curtis Sterling, and William Aschenbeck, D/B/A Green Monster Mining Company
311 South Montezuma
Prescott, Arizona, an Arizona Partnership.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners. See attached sheet.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Section 4 of Township 3 East, Range 10 North, of the Gila and Salt River Base and Meridian, Yavapai County, Arizona.

(*b*) State any mine name by which the property is known. Green Monster Prospedt.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Leasehold.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See attached lease.

(*e*) If you own the land, describe any liens or encumbrances on it Not applicable.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Not applicable.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. Note: For Item 4 all headings—see attached Geologic report

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Copper.

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See attached geologic report.

(*c*) The work will start within 30 days and be completed within 24 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See attached sheet.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project: b Item 6. See attached costs.

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes.

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☒ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper. See attached sheet.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated October 7, 1956

GREEN MONSTER MINING COMPANY
(Applicant)

By Hugh S. Thomas
Hugh S. Thomas
Partner

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—66551-1

Application of Green Monster Mining Co.
Form MF-103

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Item 1 (d) Names & Addresses of Partners:

1. B. W. Copeland
   311 South Montezuma
   Prescott, Arizona
2. Hugh S. Thomas
   Merriman & Thomas
   Certified Public Accountants
   Box 791
   Brownfield, Texas
3. Curtis Sterling
   Brownfield News, Inc.
   Brownfield, Texas
4. William Aschenbeck
   Plains, Texas

Item 5 (d) Experience of applicant.

Applicant has no previous experience other than that Mr. B. W. Copeland has sunk present shaft down 60 feet and timbered it to a depth of 35 feet. Competent supervisory personnel will be hired.

William E. Hayes, Ph.D., Consulting Geologist has been engaged on a consultant basis to be the primary supervisor of the exploration. Dr. Hayes has had previous experience in copper mines in Nevada.

Application of Green Monster Mining Co.
Form MF-103

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Item 6. Costs:

(a) Independent Contracts:		
Core drilling. 1,000 ft. @ $4.00 per ft.	$ 4,000.00	
Bulldozing for road work.		
40 hours @ $8.00 per hour	320.00	
Total Contracts		$ 4,320.00
(b) Labor, Supervisors, Consultants:		
Consulting Geologists & Engineers		
15 days @ $100.00 per day	$ 1,500.00	
Labor Foreman - B. W. Copeland		
4 mo. @ $500.00 per mo.	2,000.00	
Miners and Laborers (two or three) avg. of		
2 for 80 working days @ $15.00 per day	2,400.00	
Total Labor & Supervision		5,900.00
(c) Materials & Supplies:		
Lumber for gallows & framework	$ 200.00	
Timbering for shaft & skidway	590.00	
Water tank	100.00	
Air receiver tank	75.00	
Pipe, 200 ft. 2" air line @ 40¢	80.00	
" , 200 ft. 1" water line @ 20¢	40.00	
Valves, fittings, cables	235.00	
Dynamite & misc.	150.00	
Total Material & Supplies		1,520.00
(d) Operating Equipment:		
Jack Hammer, Steel & Bits	$ 500.00	
Hoist-foundation & tracks		
4 mo. rental @ $60.00 per mo.	240.00	
Air Compressor--rental use allowance		
4 mo. @ $100.00 per mo.	400.00	
Pickup Truck - rental 4 mo.	300.00	
Gasoline motor for hoist	200.00	
Total Equipment		1,640.00
(e) Rehabilitation & Repairs - None.		
(f) New Buildings - None.		
(g) Miscellaneous:		
Assaying costs		
40 Copper at $2.00	$ 80.00	
30 Mist. @ $3.50	105.00	
Accounting & Records	350.00	
Workmen's Compensation & Payroll taxes & other insurance	350.00	
Total Miscellaneous		885.00
(h) Contingencies		500.00
Total Costs		$ 14,765.00

Application of Green Monster Mining Co.
Form MF-103

Item 7. (b) Method of furnishing applicant's share of the costs:

1. Money	$ 4,362.50
2. Use of Equipment:	
Air Compressor (already owned)	
Rental use allowance	400.00
3. Other:	
B. W. Copeland, partner, time as labor foreman	2,000.00
H. S. Thomas, C.P.A., partner, accounting & records	350.00
Total Contribution by Applicant	$ 7,392.50

Note: If above time is not fully used, applicant can make up the difference in money.

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LEASE AND OPTION

KNOW ALL MEN BY THESE PRESENTS:

That CRAMER SUPPLY CORPORATION, a corporation, hereinafter called the "Lessor", has by these presents leased, let and demised, unto B. W. COPELAND, of Prescott, Arizona, hereinafter called "Lessee", the following described premises and property situate in Yavapai County, Arizona, to-wit:

> All ores, minerals, and mineral rights, in and under the surface of Section Four (4), of Township Three (3) East, Range Ten (10) North, of the Gila and Salt River Base and Meridian.

TO HAVE AND TO HOLD unto the Lessee, his heirs, executors, administrators and assigns, for a term of twenty (20) years from and after the date hereof, with the exclusive option to renew as hereinafter set forth, subject to the following terms, conditions and agreements, to-wit:

1. Lessee, its agents and employees shall at all times prior to the expiration of this lease, have the right and privilege to enter upon and take exclusive possession of the ores and minerals in and under the above-described property, and each and every part thereof, and to carry on any and all kinds of mining developments and operations therein and thereon, and to use all water and water rights in connection therewith, and to concentrate and mine ores, minerals and metals therein or thereon, and to remove any and all such ores, minerals and metals therein or thereon, and to remove any and all such ores, minerals and metals or other mineral products obtained by such operation, and to use said demised property for such lawful purposes as may be necessary and proper in the conduct of mining operations. Lessee agrees to pay at his own cost and expense, for all mining and exploration

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BEER AND SEAMAN
LUHRS TOWER
PHOENIX ARIZONA

operations conducted in or on the above described property.

It is understood that the term "ores, minerals and metals" as used herein, shall mean any material which is severed and removed from said property with the intent and purpose that it will be subjected to any process designed to recover mineral therefrom in marketable form.

Lessee shall have the sole right to sell and dispose of all ores and minerals so produced, at the best marketable price obtainable.

2. Lessee agrees to commence mining exploration upon execution hereof and to commence mining development and operations within one (1) year from the date of execution hereof. It is further agreed that should lessee fail to diligently continue mining development and operations during any period of one (1) year, for any reason whatever, this lease may be terminated by the lessor upon thirty (30) days written notice to lessee.

3. Lessee shall pay to lessor a royalty of five percent (5%) of the net smelter, mint, mill, or ore return on mineral produced from mining operations in or upon said demised property. Net smelter, mint, mill, or ore return as used herein shall mean: the gross value after processing or, where processing not necessary, at the place of sale less; (1) actual cost of transportation from place of production to the place of processing or sale; and (2) costs of processing, if any.

4. All buildings, machinery and appliances and other property placed on said demised premises by the Lessee, shall, as between the parties hereto, be deemed and treated as the personal property of the Lessee, and at any time within Ninety (90) days after the expiration or termination of this agreement, may be removed by the Lessee from said property.

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DEER AND SEAMAN
FIRST TOWER
PHOENIX, ARIZONA

5. Lessor agrees that Lessee shall have immediate possession of said premises and property aforesaid, and Lessee shall take and hold the same pursuant to the terms and agreements herein contained.

6. It is agreed that Lessor shall retain all surface rights including grazing rights to the demised property except to the extent provided herein for lessee's mining operations. Lessee further agrees that any work or labor performed by them, or their agents or employees, in and upon said demised property shall be done and performed in a good and minerlike manner, and according to the mining customs of the district.

Lessee agrees to disturb the surface of the land hereinabove described as little as possible, in conducting such mining operations he should determine to be proper and necessary.

7. Lessee further agrees to pay to Lessor, upon the execution of this Lease, the sum of Three Hundred Dollars ($300.00) which shall be by said Lessor, used to complete the purchase of the land described in Fee, from the State of Arizona.

8. Lessor agrees with Lessee, as follows:

(a) To complete payment to the State of Arizona for the property above described for the purpose of securing from the State of Arizona the full mineral rights in and to the property above described, and under the surface thereof.

(b) To furnish Lessee with a photostatic copy of such recorded Deed.

(c) To permit Lessee the use of such surface for his underground, or open pit mining, disposal of waste materials,

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LUHRS TOWER
PHOENIX, ARIZONA

development of water, necessary sites for housing and other buildings, roads, mill site, and such other surface uses as shall be necessary and proper for Lessee's mining operations.

9. It is mutually agreed that each party surrenders all upon rights on the property lines of the denied property with respect to any and all minerals and ores whether discovered heretofore or hereafter.

10. Lessee agrees to furnish Lessor a strict accounting of each shipment of ore made, and to remit royalties due to Lessor promptly upon the receipt of returns for each shipment from the smelter, or any other buyer or purchaser, of ores and minerals. Lessee agrees to authorize the Lessor, its auditors or accountants, to inspect and examine the books and records of the Lessee at Lessee's office each year for the purpose of verifying the royalties provided herein and such right shall include examination of Lessee tax returns and any and all records which might in any way indicate or verify the royalties arising out of Lessee's mining operations on the demised premises.

11. The Lessee covenants and agrees that he will hold the Lessor free, clear and harmless from all liens and claims of whatsoever kind or nature arising out of the activities of the Lessee, his agents and employees.

12. It is agreed that Lessee may sell, assign and transfer this Lease and Option only upon the written consent of Lessor.

13. As additional consideration of this Lease Lessor does hereby, and by these presents, give and grant unto Lessee, the exclusive option to renew this Lease for an additional term of Twenty (20) years, upon the same terms and conditions.

LAW OFFICES
DEER AND DEARAN
PHOENIX, ARIZONA

[redacted]

STATE OF [redacted]

COUNTY OF [redacted]

[redacted] acknowledged before me

this [redacted] 1996, by [redacted]

and [redacted]

and [redacted], of SHAMER

ROYALE [redacted] they acknowledged to me that they

executed said [redacted] Lease for the [redacted] purposes therein

expressed.

WITNESS my hand and official seal.

[redacted]

My Commission Expires:

[redacted]

STATE OF [redacted]

COUNTY OF [redacted]

The foregoing Lease and Option was acknowledged before me this 6th day of August, 1996 by R. W. Sepeland who acknowledged to me that he executed said Lease and Option for the said purposes therein expressed.

WITNESS my hand and official seal.

NOTARY PUBLIC

My Commission expires:

[redacted]

LAW OFFICES
BEER AND SEAMAN
LIMITED PARTNERSHIP
PHOENIX ARIZONA

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OCT 15 1956

GEOLOGIC REPORT

GREEN MONSTER COPPER PROSPECT

Yavapai County, Arizona

WILLIAM C. HAYES
Consulting Geologist
Lubbock, Texas

October 5, 1956

INTRODUCTION

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The following geologic report on the Green Monster Copper Prospect in southeastern Yavapai County, Arizona has been prepared at the request of Mr. Hugh S. Thomas of Lubbock, Texas.

Two days were spent in the field examining the area; March 23 and July 19, 1956. The first investigation was to determine if the property should be acquired, and after the property was acquired and a shaft approximately 60 feet deep was sunk the writer was again requested to visit the site.

LOCATION AND PHYSICAL FEATURES

The deposit is in the NW¼ of the NW¼ of Section 4, T. 10 N., R. 3 E., Gila and Salt River Base Line and Meridian, Yavapai County, Arizona. It is on the east side of the Agua Fria River approximately 30 miles southeast of Prescott, Arizona.

Between Prescott and the area under investigation the Bradshaw Mountains rise to altitudes of 7,500 feet, some 3,000 feet above the extensive lava flows to the east.

The area may readily be reached by auto on the recently completed portion of Arizona State Highway No. 69 approximately 40 miles from Prescott and then approximately 6 miles on a county maintained gravel and dirt road that fords the Agua Fria River at Horseshoe Ranch.

No timber is available at the site but adequate water is available from the Agua Fria River. The town of Mayer (which could

supply foodstuffs, miscellaneous supplies, and living quarters) is approximately 28 miles from the area. Prescott is served by the Santa Fe Railroad and a spur extends southeastward past Mayer. Loading facilities are available on this spur about 12 miles north of the intersection of the county road and Arizona State Highway No. 69, or a total trucking distance of 18 miles from the area.

Several mine supply houses serve the region from Prescott where considerable equipment, materials, and supplies are carried in stock. Manpower is available in Prescott and in the smaller surrounding towns. It is approximately 7 airline miles west from the area to the nearest source of electrical power.

PREVIOUS HISTORY

During the first visit to the property in March 1956 an old prospect shaft was observed. It had caved and was filled with debris to within a few feet of the surface. The size of the dump indicated that the shaft was probably 50 to 75 feet deep. It is reported that the shaft was some 60 feet deep and that exploratory drifts were driven east and west from near the botton. It is reported that this early exploratory work was done in the early 1900's in search of gold and silver but was shortly abandoned.

After the property was acquired by the present lessee a shaft was sunk adjacent to the old shaft and at present is 60 feet deep. An exploratory drift was driven 20 feet to the northwest from the 50 foot level.

There has been no shipment of any ore from the property to date.

GEOLOGY

The oldest rock in the area, the Yavapai schist, consists of mica and hornblende schists, quartzites, and minor calcareous and siliceous schist lenses. It is apparent these represent recrystallized and metamorphosed sediments probably with intercalated volcanic flows and probable intrusives.

These schists have been intruded by the Bradshaw granite complex that forms the core of the Bradshaw Mountains. Diorite and granodiorite intrusives are also present, one such mass seperating the main mass of the Bradshaw granite from that found in the area of investigation. Rhyolite porphyry and basic dikes are numerous throughout the region and are thought to be of a much later date (probably of Cretaceous or Tertiary age) than the precambrian schists and granitic intrusives.

A map from U.S.G.S. Bulletin 782 is attached showing the regional geology.

The Bradshaw granite is the dominate country rock in the area. Definite lineation of structural elements was observed in the immediate area with a strike of N. 17° - 22° E. Two of the more prominent basic dikes are indicated on the detailed geologic map of the area. They have a steep (75° - 85°) dip to the east or southeast.

Immediately east of the easternmost basic dike a considerable

area of gossan was observed. It consists of siliceous, iron-stained material with copper carbonate mineralization. Azurite and Malachite occur as veinlets and filling vugs scattered throughout the material. Another mineralized area occurs approximately 275 yards south of the existing shaft and is also immediately east of the same basic dike. The preponderance of the secondary copper minerals, the development of the gossan, and the relationship of the two old prospects to the basic dike prompted the acquisition of the property for further exploration for possible commercial exploitation of copper-bearing ores. During the first examination in March a composite sample of the gossan material was obtained which showed by assay to contain 15.73 percent copper. ?

Around the edges of the old dump were numerous light gray rocks speckled with dark brown to black areas. This rock consists of quartz and calcite gangue, sporadic malachite, and a manganese-iron material from which the primary copper has been leached. It is believed this light gray material represents the primary vein and is similar to the quartz and calcite copper-bearing veins of the region as described by Lindgren in U.S.G.S. Bulletin 782 (Ore Deposits of the Jerome and Bradshaw Mountains Quadrangles, Arizona). A composite sample of this material assayed 2.08 percent copper.

After the property was acquired the lessee sank a shaft, immediately west of the old shaft and east of the basic dike, to a depth of 60 feet. Evidence of the old shaft persisted to a depth of some 40 feet where it was observed to hade eastward. It was found that in the immediate area, the basic dike, which is highly ferriguneous,

dips to the northwest. An exploratory drift was driven northwest penetrating the dike. To date there is no evidence that the vein material has been encountered.

Upon visitation of the property in July composite samples were again taken from the gossan and the light gray material as a check. The oxidized material of the gossan assayed 19.7 percent copper and the light gray vein material assayed 1.8 percent copper. Photostatic copies of the above referenced assays are attached.

EXPLORATION RECOMMENDATIONS

It is the opinion of the writer that further exploration of the prospect should be initiated. The relationship of the two copper mineralized areas, both on the same side of a basic dike and parallel with the structural trend in the area; the presence of carbonate mineralization in the gossan; and the indicated vein material on the old dump substantiate such an opinion.

The writer suggests that the existing shaft be sunk to at least 100 feet of depth and an exploratory drift be driven northeastward. Another exploratory drift should be driven to the southeast for exploration in that direction. If the vein is found in place by this additional exploratory work it is believed that the geologic information achieved will be well worth the exploration costs.

It is suggested that the old prospect to the south be opened; perhaps by blasting and stripping of the surface material to expose the bedrock.

It is recommended that a core drilling program be developed in the following manner:

At a point approximately 150 feet S. 70° E. from the shaft (where the surface elevation would be about 30 feet lower than that at the shaft) drill a hole on a bearing of N. 70° E. and inclined 45° from the horizontal to intersect the projection of the vein at a depth of approximately 145 feet. Drill another hole from the same location and with the same bearing but inclined 60° from the horizontal to intersect the vein at approximately 200 feet of depth. At least two other holes are recommended; approximately 300 north and 300 feet south of hole no. 1 and with the same bearing and inclined 60° from the horizontal. For each of the holes inclined 60° approximately 250 feet of boring should be allowed and for the 45° hole about 200 feet of boring should be adequate. This totals 975 feet of boring recommended, but for ease of calculations and for contract purposes it is recommended to estimate a total of 1,000 feet of core drilling. A plan and cross section indicating the proposed drilling is attached.

William C. Hayes

William C. Hayes
Consulting Geologist
1210 Avenue J
Lubbock, Texas
October 5, 1956

2217 Texas Street
Dial 2-3831

EL PASO TESTING LABORATORIES

CHEMICAL AND PHYSICAL ANALYSES
CONSULTING ENGINEERS
P. O. Box 1565
El Paso, Texas

Lab. No. 18679

CERTIFICATE OF ANALYSIS

TO Wm C. Hayes

1210 Ave. Lubbock, Texas

Sample of Received August 1, 1956

Marked

1. Cu-19.7% GM-8 Oxidized vein material from dump.
2. Cu-1.8% GM-9 Vein(?) material from dump. W.C.H.

Charges-3.50

Respectfully submitted,
EL PASO TESTING LABORATORIES

Chemist

GEO. L. DICKINSON—PRESIDENT
GEO. G. DICKINSON—VICE-PRESIDENT
ROBERT L. DICKINSON—VICE-PRESIDENT
DR. J. A. HANCOCK, PH. D.—CONSULTING CHEMIST

DICKINSON LABORATORIES, INC.

ASSAYERS — CHEMISTS — METALLURGISTS
UMPIRES
WATER ANALYSIS
PHONE 2-9284 — P. O. BOX 7006
1300 WEST MAIN ST. EL PASO, TEXAS

March 27, 1956

CERTIFICATE OF ASSAY

ASSAYED FOR: ~~Mr. Wm O. Hayes,~~ Lab No. 8679

ADDRESS: ~~Lubbock, Ariz.~~

MARKED: ~~Ore samples~~ Samples from Green Monster Prospect

Gold Ozs. per ton	Silver Ozs. per ton	% Lead	% Copper	% Zinc	% Silica	% Calcium Fluoride	Effective Units	% Manganese	% Iron
			2.08	GM #1	Vein(?) material from dump.				
			15.73	GM #2	Oxidized vein material from dump.				

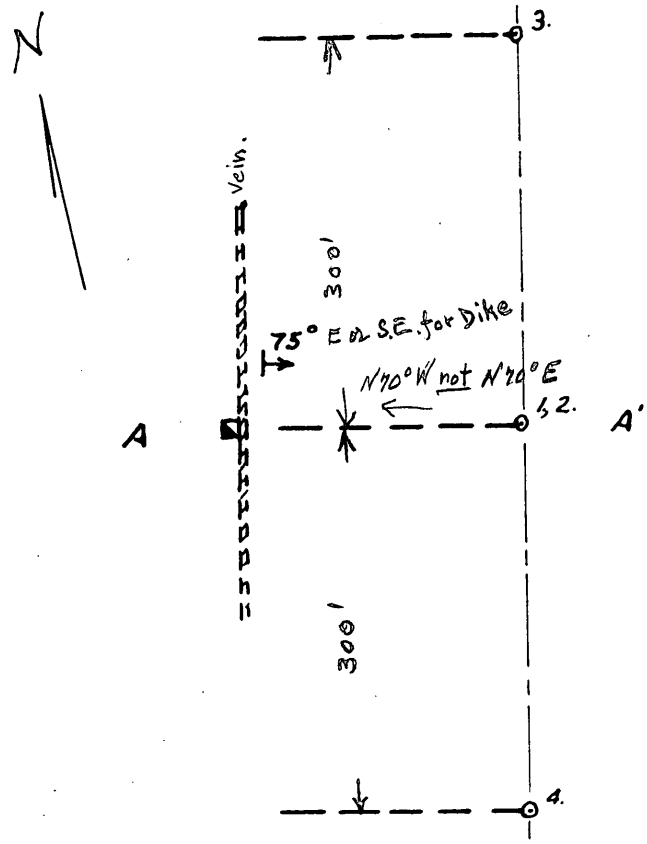
CHARGES $ 4.00 Paid

Geo L Dickinson ASSAYER

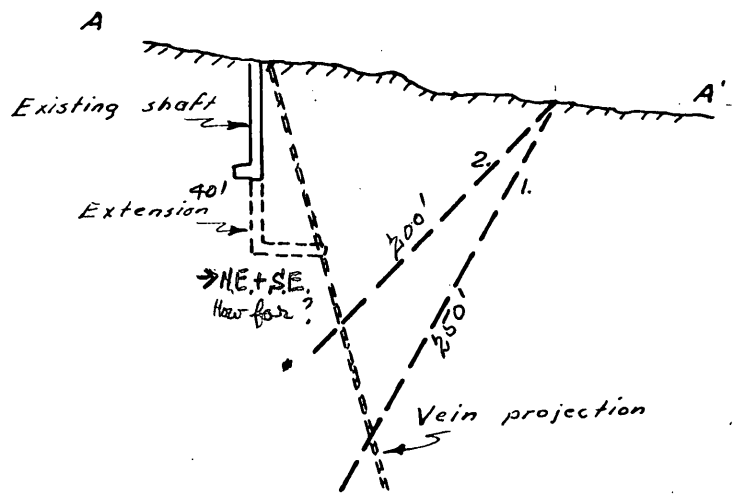
SUBSIDIARIES:
Texas Testing Laboratories • Cottonseed Oils • Physical Testing • Farm Service Laboratory • Soil and Water Analyses

RECEIVED
OCT 15 1956

PLAN



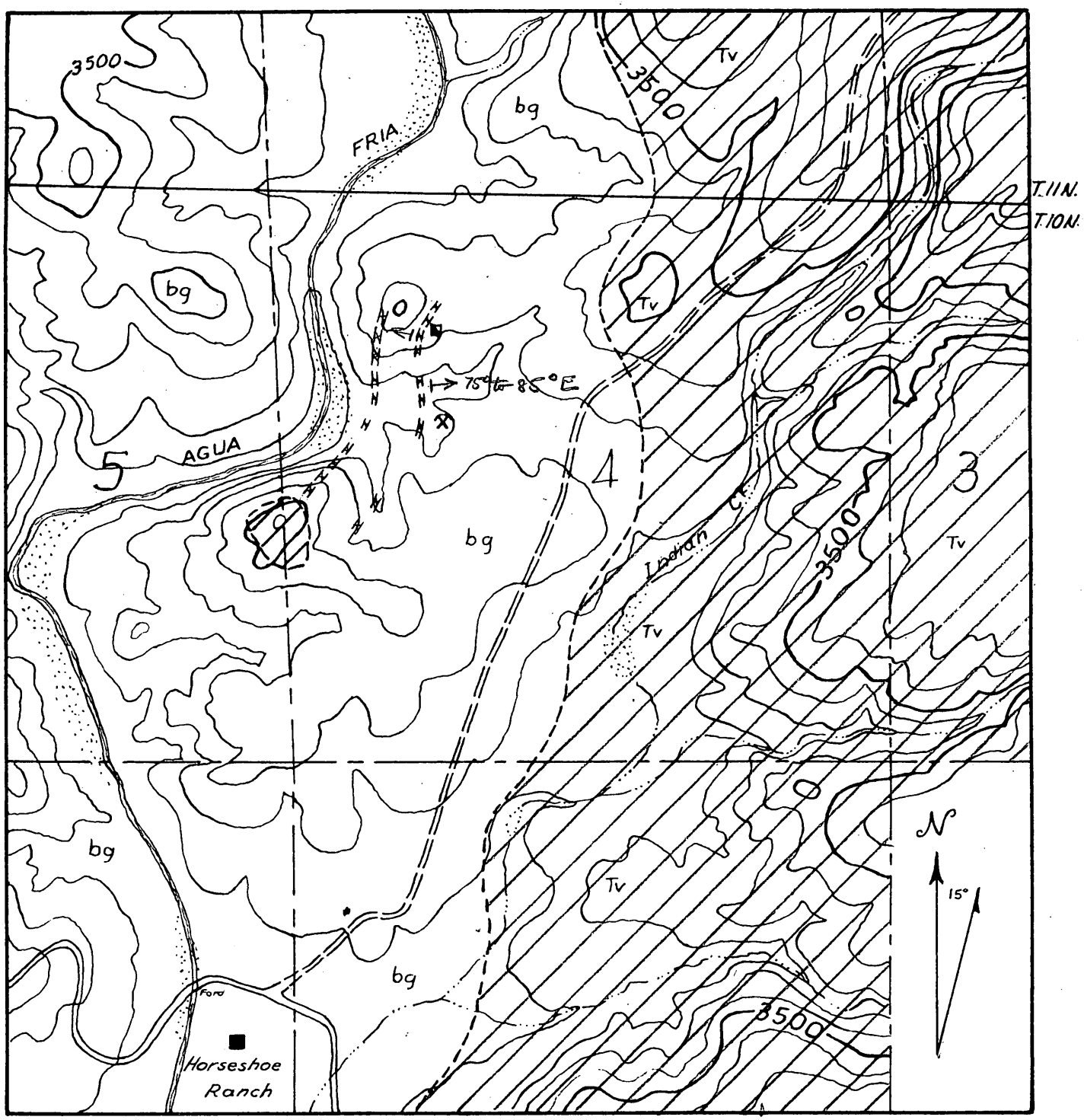
CROSS SECTION



PROPOSED CORE DRILLING

SCALE: 1" = 100'

W.C.H.



R.3E.

GEOLOGIC MAP

GREEN MONSTER COPPER PROSPECT

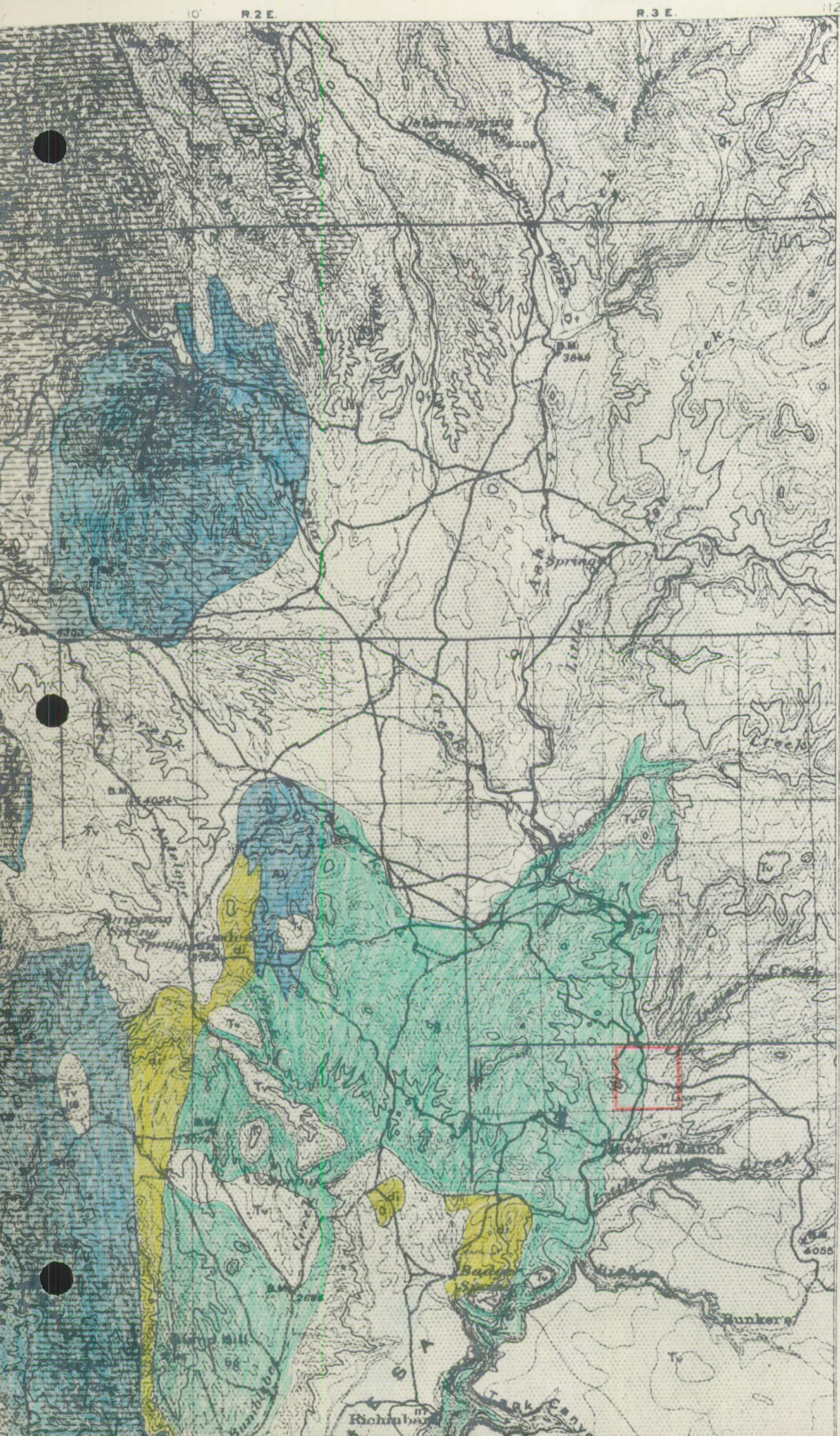
SCALE: 1" = 1/4 mile

C.I. = 50'

LEGEND

- Bradshaw granite (bg)
- Tertiary lava (Tv)
- Greenstone dikes

W.C.H.



RECEIVED
OCT 15 1956

EXPLANATION

SEDIMENTARY ROCKS

Qt	Alluvium and travertine marble	QUATERNARY AND TERTIARY (?)
Ay	Yavapai schist	ALGONKIAN

IGNEOUS ROCKS

Tv	Volcanic flows and tuffs	TERTIARY
gd	Granodiorite	PROBABLY ALGONKIAN
rp	Rhyolite porphyry dikes	PROBABLY ALGONKIAN
mp	Monzonite porphyry	PROBABLY ALGONKIAN
di	Diorite	PROBABLY ALGONKIAN
bg	Bradshaw granite and Crooks complex	PROBABLY ALGONKIAN
⚒	Mine	

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. [illegible] blocks consecutively, one at a
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
Secy. Dmea Rm [illegible]	RUN / STOP		RUN / STOP
4/4/58	RUN / STOP		RUN / STOP
Mr Ady Rm 2651	RUN / STOP		RUN / STOP
Mr I Adams DMEA	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP

Send surplus envelopes to supply room for reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required. Your mail room has RUN and STOP information.