DMEA-2410 - Zeb Angel

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2410

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION PROJECT

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Code 600, Rm. 4637	Date	3-5-52
To:	Operating Com.	Date	4-2-52
To:		Date	
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DOCKET DMEA 2410

Sample of mica tested at Spruce Pine, GSA, 7/18/52 found to be ruby mica.

2410 7/15/52

Zeb Angel
Ottha Roper Mine

Sample 1
11 pcs present cut

Sample 2
1 pc 3/16 thick } From former
1 pc 1/16 thick } workings

To Spruce Pine

Mr. Zeb Angel
Franklin
North Carolina

Subject: Docket No. DMMA-2410 - Mica
Ortha Roper Mine
Macon County, North Carolina

Dear Mr. Angel:

This is in reference to the subject application for assistance in exploring for mica at the Ortha Roper Mine, Macon County, North Carolina.

We understand that you no longer have a lease on the property. If this is the case, you should advise us of the situation. The proper way to do this is to write by return mail that you wish to withdraw your application as you have disposed of your interest in the lease.

If you still hold the lease and wish to proceed, please advise that this is the case as we have suspended the processing of your application until we hear from you.

Sincerely yours,

-S- 7/24/52

Lawrence O. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

SAFeitler:mp 7/24/52
cc: Docket File
Adm. Reading File
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Field Team, Region VII
Mr. Houk

WITHDRAWN; note from Mr Angel 7/29/52.

"This is correct and I wish to thank you for the interest you have taken in this property."

Thank you

Zeb Angel (sgd)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Room 19, Post Office Building
Knoxville, Tennessee

COPY

July 21, 1952

Memorandum

To: L. G. Houk, Acting Chief, Non-Metallic Minerals Div.

From: Executive Officer, DMEA-Region 7

Subject: DMEA-2409 and 2410 (mica) Aeb Angel, applicant.

It was noted in the denial of DMEA 2409 (Wildes Mine), that the application for assistance cannot be transferred to another individual (in this case, F. T. Siersma).

Please note that Mr. Siersma has also re-purchased the Ortha Roper Lease (DMEA-2410) from Zeb Angel. Although we recommended a small amount of work at the Ortha Roper, Mr. Siersma should be advised to file a new application, as in the case of the Wildes.

Robert A. Laurence (sgd)

COPY

Mr. Walter S. Flynt, Manager
General Services Administration Depot
Box 846
Spruce Pine, North Carolina

Subject: Docket No. DMEA-2410 - Mica
" " DMEA-2533 - "
" " DMEA-2557 - "
" " DMEA-2561 - "
" " DMEA-2575 - "

Dear Mr. Flynt:

Transmitted herewith are five samples of mica for evaluation as to the probability of their acceptance for purchase by your agency. These samples are submitted in accordance with an agreement with Mr. W. M. B. Freeman of your Washington Office. We would appreciate your sending a copy of the evaluation to Mr. Robert A. Lawrence, Executive Officer, DMEA, Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee.

The following samples are submitted:

DMEA-2410 - Zeb Angel, Ortha Roper Mine
DMEA-2533 - Fred Wilson and John VanWerry
DMEA-2557 - K. L. Anglin and J. K. Elkins, Hunkins Mine
DMEA-2561 - R. L. Poston and R. W. Poston
DMEA-2575 - Conway Revis

Sincerely yours,

-S- 7/17

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Enclosures - 5

LGHouk:mp 7/16/52
cc: Docket File
Adm. Reading File
Mr. Dietrich, 3526
Mr. Norton, G0232, GSA Bldg.
Mr. Houk
Field Team, Region VII

July 15, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2410, Ortha Roper Mine (mica); Zeb Angel, Applicant. Report of Field Examination.

I concur in the field team's recommendation for a two stage exploration program in the amount of $2,046.

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 16 1952

IN REPLY REFER TO:

G-MD-PLW

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

June 26, 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2410 (Mica)

To: L. G. Houk, Non-Metallic Minerals Division, DMEA
From: P. L. Weis, U. S. Geological Survey
Applicant: F. T. Sierema.
Name of property: Ortha Roper Mine.
Location of property: Macon County, North Carolina.
Date of field team report: May 19, 1952.
Authorship of field team report: R. W. Laurence, U. S. Geological Survey.
Field team's recommendation: The field team recommends an exploration contract for $1,841.40.
Comments: In spite of their recommendation the field team appears decidedly lukewarm on this application. In addition to some unfavorable comments on the probable quantity and quality of the mica, they point out that exploration is not likely to result in the discovery of a significant deposit.
ACTION SUGGESTED: Denial.

Paul L. Weis

Weis:jeh
G-6/26/52
cc: Director's reading file 4212
Branch " " "
DMEA
Weis USGS, G-228
Norton " G-230

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2410, ORTHA ROPER PROSPECT
Macon County, North Carolina

By

William A. Beck, Mining Engineer
U. S. Bureau of Mines

-

Robert A. Laurence, Geologist
U. S. Geological Survey

May 19, 1952

Reviewed by
DMEA OPERATING COMMITTEE
6-27-52
(date)

REPORT OF FIELD EXAMINATION

IMEA-2410, ORTHA ROPER PROSPECT, (mica) Macon County, N. C.
Applicant-Zeb Angel

The Ortha Roper prospect is located on the south side of Burningtown Creek, 8.3 airline miles N 74° W. from the courthouse square in Franklin, North Carolina. It is on land owned by Ortha Roper and wife. Mineral Rights were leased to Frank T. Siersma on November 3, 1951. Siersma sold his lease to Zeb Angel, the applicant, on November 10, 1951. Angel sold it back to Siersma on June 5, 1952.

The prospect is incorrectly located on the applicant's map. It should be south of the Burningtown road.

Apparently this pegmatite was not worked during World War II. According to Ortha Roper, one of his sons worked it intermittently in his spare time about 4 years ago, and sold some mica to commercial buyers.

In the past 2 weeks, Mr. Siersma has had the pegmatite exposed, the work being done by Gus Duvall of Franklin, N.C. An open cuts extends into the hill in a S 60° W. Direction for 30 feet, at which point it is 6 feet deep. It continues for about 25 feet in a S 10° W. direction, and is about 15 feet deep at the face. The last 8 to 10 feet are under an overhanging top, as the hill is quite steep. The pegmatite is incompletely exposed, even in this cut, but appears to trend approximately N 30° E. There is a thick (3 to 7 feet) quartz zone in the east side of the cut, dipping about 35° to the east. In the face and partly along the west side is a zone of kaolin 3 to 8 feet thick, underlying the quartz, and containing, especially near the footwall, a few small books of mica. More were seen lying around the floor of the cut than could be seen in place. Mr. Roper said that his son worked down to the east, under the quartz ledge, and obtained the mica which he sold.

Most of the mica from this pit is less than 2 " x 2", but some as large as 3" x 3" was given to us by Mr. Roper who said his son had taken it from below the quartz ledge. The mica is ruby in color, most of it is slightly bent and some shows "A" structure. Samples of the mica from the pit are submitted herewith, marked "1" (taken from present cut) and "2" (given us by Roper).

Because this pegmatite appears to be well zoned, and contains some mica which is probably saleable as strategic mica, it may justify a little surface work, followed by underground work if it then appears to be worth while. On the other hand, in common with other pegmatites in the Burning-

town area, the quantity and size of the mica may be expected to be small, raising the question whether such a discovery or development would be a "significant" one. On this basis, we propose making a bulldozer cut about loo feet long, 35 feet wide and 15 feet deep, with a provisional second-stage shaft if approved later. The cut should not extend more than 50 feet north of the present cut, as the area to the north is covered by large bouldery alluvial deposit 10 feet or more thick.

Mr. Siersma, the present lessee and applicant, has not seen this deposit, and accepted Zeb Angel's proposals of work, but is agreeable to the program outlined above. He plans to hire Gus Duval or Norman Mashburn as working foreman, if the job is approved.

Description of the Work

The work to be performed on this project shall be done in two stages.

STAGE I- consists of stripping, by means of bull-dozer the overburden from an area approximately 100 feet long by 35 feet wide and 15 feet deep to uncover the pegmatite zone now partly exposed by former work. Approximately 10 days will be required to complete this work.

STAGE 2- consists of sinking a 5' x 8' shaft, 35 feet deep in the area uncovered by Stage I., if favorable showings are found by the stripping.

The commencement of the work on Stage 2 and its location shall be subject to the approval of the Executive Officer of the Regional Field Team. Time required is approximately 30 days.

The attached map indicates the approximate location of the work to be performed.

Estimated Costs of Project

(* Indicate Allowable Maximum)

STAGE I.

Independent Contracts

1 - Bulldozer (includes operator, maintenance, repairs, oil and fuel, and all other costs) 50 hours @ $10/hr. $500.00*

Labor and Supervision, Consultants

1 - Working Foreman @ $1.50/hr, 50 hours. 75.00

(3) Operating Materials and Supplies

Miscellaneous small tools, etc.	$25.00	
Total estimated cost STAGE I		$600.00*
Government's participation @ 90%		$540.00*

STAGE 2

(1) Independent Contracts

None

(2) Labor, Supervision, Consultants

2 - Miners-Timbermen- 18 shifts,@ $1.25/hr.ea.	$360.00	
1 - Hoistman-Foreman - 18 shifts @ $1.50/hr.ea	216.00	
1 - Laborer - 18 shifts @ $1.00/hr	144.00	
	$720.00	

(3) Operating Material and Supplies

Timber	250.00	
Miscellaneous, supplies	100.00	
		$350.00

(4) Operating Equipment
To be rented

1 - 105 cu. ft. Air Compressor -1 mo.	164.00	
1 - Sump pump 1 mo.	112.00	
		276.00

(5) Rehabilitation and Repairs

None

(6) New Buildings, Improvements, Installations

None

(7) Miscellaneous

Social Security, Insurance, Taxes, etc.	100.00	
		100.00
Total estimated cost of Stage 2		$1,446.00*
Government's participation at 90%		$1,301.40*
Total Estimated Cost of Stages 1 and 2		$2,046.00*
Governments Participation @ 90%		$1,841.40*

Mr. Robert A. Lawrence
Executive Officer
DMA Field Team, Region VII
Room 13, Post Office Building
Knoxville 1, Tennessee

Subject: Docket [illegible]-2410 - Mica
(Formerly [illegible]-2258)
Orthe Roper Mine
Mason County, North Carolina

Dear Mr. Lawrence:

There is enclosed a copy of the docket of the above reference application.

We are notifying the applicant that a field examination of his property is being authorized, subject to his notifying you that he has cleaned out the trench on his property, from which it is reported that mica was recovered about two years ago, so that it will be accessible for the Field Team's inspection, and also to furnish you with a representative sample of any mica he obtains from the trench.

Upon receipt of such notification and sample, please arrange for an examination of the property by the Field Team. If warranted, a suitable exploration project should then be worked out with the applicant.

Sincerely yours,

Signed 4-3-52

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures - 3
Approved:

Member, Bureau of Mines

Member, Geological Survey

SAFeitler:FSJohnson:mp 4/2/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Johnson, 4624
Mr. Deitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Monk

600

APR 3 1952

Mr. Zeb Angel
Franklin
North Carolina

Subject: Docket No. DMEA-2410 - Mica
Ortha Roper Mine
Franklin Mining District
North Carolina

Dear Mr. Angel:

Reference is made to your application for an exploration project and additional data regarding your property submitted under date of February 20, 1952.

The data submitted to this office does not indicate that our Field Team could see anything on your property to determine whether or not exploration is warranted. However, it is noted that about two years ago "A cut was made into the vein a bout 4½ feet wide and 10 feet long, of the exposed area, from which several blocks of mica were recovered".

It appears that this pit could be easily cleaned out by you and a representative sample of any mica exposed in the bottom could be obtained. We are, therefore, referring your application to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 1, Tennessee, and authorizing him to make an examination of your property upon receipt of notification from you that the pit has been cleaned out and also receipt of a representative sample of the mica exposed in the bottom of the pit.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

SAFeitler:FEJohnson:mp
4/2/52
cc: Adm. Reading File
Docket File
Operating Committee
Field Team, Region VII (2)
Mr. Johnson, 4624
Mr. Feitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

600

APR 3 1952

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region VII
Room 13, Post Office Building
Knoxville 1, Tennessee

Subject: Docket DMEA-2410 - Mica
(Formerly DMA-2258)
Ortha Roper Mine
Macon County, North Carolina

Dear Mr. Laurence:

There is enclosed a copy of the docket of the above reference application.

We are notifying the applicant that a field examination of his property is being authorized, subject to his notifying you that he has cleaned out the trench on his property, from which it is reported that mica was recovered about two years ago, so that it will be accessible for the Field Team's inspection, and also to furnish you with a representative sample of any mica he obtains from the trench.

On receipt of such notification and sample, please arrange for an examination of the property by the Field Team. If warranted, a suitable exploration project should then be worked out with the applicant.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures - 5
Approved:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

SAFeitler:FEJohnson:mp 4/2/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Johnson, 4624
Mr. Deitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

600

April 2, 1952

Memorandum

To: Lawrence G. Houk, Chief, Non-Metallic Minerals Division

From: Stanley A. Feitler

Subject: Docket DMEA-2410 - Mica (Formerly DMEA-2258)
Ortha Roper Mine
Macon County, North Carolina

The original application in the above case was poorly prepared and supplied insufficient information. Additional information was supplied after an official denial so a new docket number was applied.

It now appears likely that a field examination would be worthwhile, but only if the applicant cleans out the small pit so the pegmatite can be seen by the Field Team. It seems likely that the amount of preparatory work requested can be done by one man in one or two days. This is in line with the type of prospect and the amount of aid requested.

Stanley A. Feitler

SAFeitler:MP
4/2/52

April 2, 1952

Memorandum

To: Lawrence G. Houk, Chief, Non-Metallic Minerals Division

From: Stanley A. Feitler

Subject: Docket DMEA-2410 - Mica (Formerly DMEA-2258)
Ortha Roper Mine
Macon County, North Carolina

The original application in the above case was poorly prepared and supplied insufficient information. Additional information was supplied after an official denial so a new docket number was applied.

It now appears likely that a field examination would be worthwhile, but only if the applicant cleans out the small pit so the pegmatite can be seen by the Field Team. It seems likely that the amount of preparatory work requested can be done by one man in one or two days. This is in line with the type of prospect and the amount of aid requested.

Stanley A. Feitler

SAFeitler:MP
4/2/52

DMEA-2410X
mica

D 2410

Panel DHK
Dec 26
4 Roper Properties

2/20/52 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE ~~DMEA-2258~~

ATTENTION: Mr. C. O. Mittendorf, Acting Administrator, D.,.E.A.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1952

This application was denied on January 22, 1952. It is believed the following information will permit you to reconsider same.

Although only a small amount of prospecting has been done on the Ortha Roper mine, EXCELLENT evidence has been produced that it contains high grade strategic ruby mica. The pegmatite, containing quartz, mica, etc., has been exposed about ten feet square. The work was done about two years ago by Ortha Roper, the owner, and has just been thoroughly examined by Applicant who has had more than 30 years experience in the Franklin Mining District.

A cut was made into the vein about 4½ feet wide and 10 feet long, of the exposed area, from which several blocks of mica were recovered; one weighing over six pounds. After sheeting, some up to 4" x 6", a sale was made to Fred Arnold, local fabricator's buyer, for $7.00. Mr. Roper did not consider that low prices, at that time, would warrant further effort on his part. The mine remained inactive until Applicant secured lease.

This property lies close to the Poll Miller mine and in line with the Chalk Hill mines several miles distant. The area is known, by local miners, to be productive of only strategic mica. This fact is also known to your Field Team.

Applicant considers, by reason of his experience, that his application comes within the scope of exploration and that same will produce positive evidence of the presence of commercial ore bodies.

In working this prospect, it is proposed to bulldoze off the overburden, as stated in application, and then locate proper position in which to sink shaft. Requirements are not large. Applicant is certain that Field Team will concur with all statements.

You are respectfully requested to reconsider this subject and trust it will become your opinion to establish the Ortha Roper mine as one of the District's producing operations.

- - - - -

Geological Survey

December 26, 1951

Memorandum

To: Nonmetallics Mineral Div. Defense Minerals Exploration Administration

From: Donald H. Kupfer U. S. Geological Survey

Subject: Zeb Angel's (Mrs.) application for aid in exploring the Ortha Roper prospect for pegmatite minerals.

Location of prospect: 1½ miles NE of Poll Miller Mine; NW of Franklin, Macon Co., North Carolina

Recommendation (check one):

✓ 1. Deny the application.
2. Request applicant for more data.

Reasons for recommendation (check all applicable statements):

✓ 1. The application does not contain specific reasons to show why the applicant considers exploration worth-while. Insufficient evidence is presented to show that the prospect merits a field examination.
2. A rough sketch map of the property is needed showing size and location of deposits.
✓ 3. The location of the property is inadequately described.
✓ 4. The name of the prospect is inadequate identification. Several mines and prospects having this name are in this district, and the applicant does not show clearly which one this application covers.
5. This is apparently an old mine or prospect, but the applicant's description of the workings is incomplete.
6. Production figures given in the application are quite inadequate, and it seems probable that better data can be obtained.
✓ 7. The applicant gives no information on the quality and size of the mica.
8. A sample of the mica should be requested.
9. The applicant's property evidently has rare (beryl, tantalite-columbite, uraninite) but no evidence has been provided to show that there is any chance of finding a minable deposit. The applicant should be asked to submit sample(s) from his prospect containing at least (20 pounds of beryl, 5 pounds of tantalite-columbite, 5 pounds of uraninite).
10. The applicant's proposed expenditures for supervision and overhead seem disproportionately large in relation to expenditures for actual exploration.
11. The suggested program of exploration is vague and incomplete.
12. We can find no information in our files on this property.
13. This property has previously been examined, and the report in our files indicates that exploration is not worth-while unless the applicant can provide new evidence that a discovery may be made.
14. Other: 4 "Roper" properties
3 "Angel" properties

WPO

Copy to: Branch Reading File, 4312
MMA
Norton, G-220, GS Bldg.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

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

NOV 26 10 41 AM '51

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. D. M. E. A. 225-2410
Metal or Mineral
Date Received 11-26-51
Amount $
Participation (Government %)

ORTHA ROPER MINE

Name and address of applicant

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

Date 11/23/51

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

DMA Docket Number (if available)

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, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*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. BOTH ARE THE SAME

   (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. SUB. AGREEMENTS ATTACHED

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

   (*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. SEE ATTACHED

   (*b*) State the time required to start the project and to complete it. WILL START UPON SIGNING OF CONTRACT AND COMPLETE WITHIN 30 DAYS

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.

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. NONE

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. SEE ATTACHED

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

   (*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. SEE ATTACHED

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. SEE ATTACHED

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

    (*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)? yes

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.

ZEB ANGEL
(Name of company)

By Zeb Angel
(Signature of authorized official)

11/23/51
(Date)

LESSEE
(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

MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. Copy of lease, etc., attached.

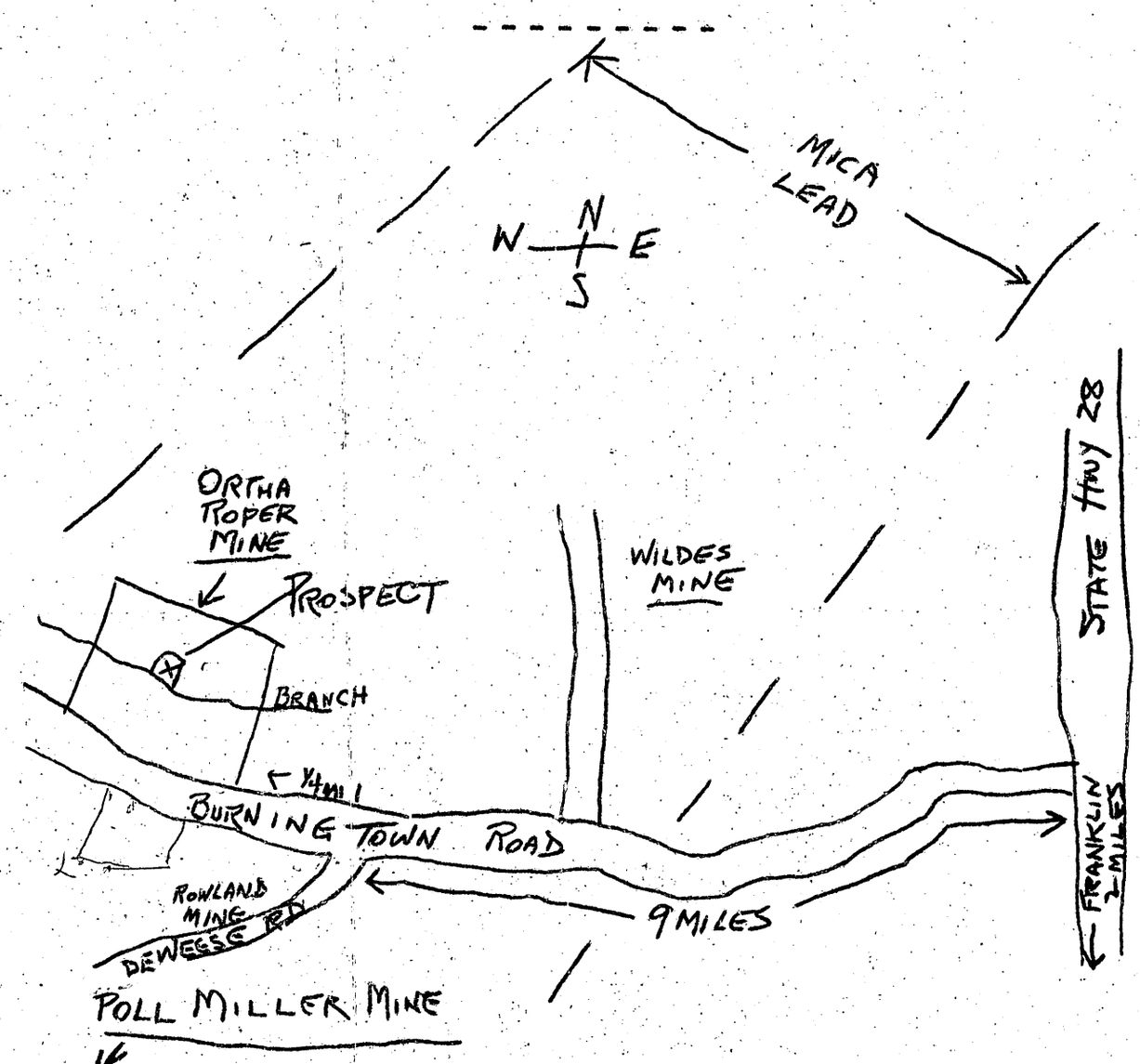
2. This property lies directly within the main mica lead passing through the Franklin District; close to past producing mines and about 1½ miles N.E. of the Poll Miller Mine which was one of the high producers of strategic ruby mica during World War 11. Very little work has been done on this particular site but it is ideal for exploration. All of the best pegmatite signs are in evidence and in sufficient size to expect commercial ore bodies will be exposed. The property has long been sought after by local miners of experience.

3. Proposed work will consist of bulldozing off the overburden to prepare for shafting; a distance of150 feet long, 35 feet wide and 15 feet deep. The shaft will be sunk to a depth of 35 to 45 feet and will then be in the vein proper. Since this will be below the water line, hard and solid clocks of strategic mica will then appear and be ready for recovery.

4. A sketch of the proposed project and its location as to nearby mines, appears below. Examination by the Field Team will reveal that it is in the known mica bearing area and will confirm all statements.

COST OF PROJECT:

Bulldozing (in soft ground), rental, 65 hours @ $10.00	$ 650.00
Pump rental, 30 days @ $5.00 per day	150.00
Timber for shafting	245.00
Miscellaneous hand tools	100.00
Working Foreman, 30 days @ $15.00 per day	450.00
4 Laborers, 30 days each @ $10.00 per day each	1200.00
Misc. expenses, sampling, office, payroll taxes, etc.	115.00
TOTAL COST	$ 2,910.00



16

MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. COPY OF LEASE, ETC.

COUNTY OF MACON
STATE OF NORTH CAROLINA

THIS LEASE AGREEMENT, made and entered into this 3rd day of November, 1951, by and between ORTHA ROPER and wife BULAH ROPER of Macon County, North Carolina, parties of the first part and Frank T. Siersma of Franklin, N.C., party of the second part,

WITNESSETH, that subject to the terms and conditions hereinafter set forth the parties of the first part have let and leased unto the party of the second part, his heirs, and assigns, the exclusive right and privilege to mine, dig and remove all minerals now in, under and upon a certain tract or parcel of land, consisting of 12 acres more or less, lying and being in Macon County, N. C., and being more particularly described as follows:

BEING on the Burningtown Creek, beginning on a stake in the Mrs. Bateman line running with Mrs. Bateman line in a southerly direction to the Government line thence with the Government line to Swofford's line in the Public Road, to a state, then with the road to the beginning; being the lands conveyed by deed from Frank Haney and wife Jane haney to Orpha Rpoer on August 5, 1927.

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

1. Unless sooner terminated as herein provided, this lease shall exist and continue for a term of five (5) years from date hereof; however, it is mutually agreed that, upon compliance with its terms and conditions, same shall be automatically extended from year to year thereafter.

2. As rental or royalty, the party of the second part, his heirs and assigns, shall pay to the parties of the first part a sum equal to ten percent (10%) of all sheet, pattern or block mica, One Dollar ($1.00) per ton for all scrap mica, Fifty Cents (50¢) per ton for all feldspar and the usual royalties for all other minerals mined and sold from said property.

3. That all royalties shall be paid on the 15th day of each calendar month following the sale and receipt of the sale price thereof.

4. Parties of the second part, their heirs or assigns, shall keep an accurate record of all sales of minerals from this property which shall be open to inspection by the parties of the first part.

5. In the event the parties of the second part should apply for a government loan to explore or operate this property, the parties of the first part agree to execute any agreements the government may require in connection with same.

So long as this lease remains in force the party of the second part, his heirs and assigns, inconnection therewith shall have and enjoy the following rights and privileges:

(a) The right to use the surface of said lands to the full extent that such use is reasonable, convenient or necessary in mining and removing the minerals therefrom and to use any portions of said surface for the purpose of dumping mine refuse and tailings as may be reasonably necessary or convenient.

(b) The right to construct and place buildings and machinery upon said lands and to remove same.

(c) The right to cut and use upon said lands, for the purposes herein set forth, any standing timber thereon at the time of such use.

(d) The right to use any water upon said property as may be necessary in the course of said operation.

(e) The right to use existing roads and to construct and maintain roads, in such locations as the party of the second part may deem advisable, and complete

1. COPY OF LEASE, ETC. (cont'd):

right of ingress, egress and regress to and from such portions of said property where mining operations are in progress or to be conducted.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

s/ O. R. Roper (SEAL)
s/ Bulah Roper (SEAL)
s/ Frank T. Siersma (SEAL)

ASSIGNMENT OF LEASE TO APPLICANT

NORTH CAROLINA

MACON COUNTY

KNOW ALL MEN BY THESE PRESENTS that I, Frank T. Siersma of Macon County, North Carolina, have this 10th day of November, 1951, for the sum of One Dollar ($1.00) and other good and valuable considerations, bargained and sodl, and by these presents do bargain and sell, to ZEB ANGEL, of Macon County, North Carolina, all my right, title and interest in and to that vertain lease described as follows:

BEING a lease from Orpha Roper and Bulah Roper to Frank T. Siersma dated November 3, 1951.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this, the 10th day of November, 1951.

s/ Frank T. Siersma (SEAL)

- - - -

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of MACON, State of NORTH CAROLINA, described in a certain Exploration Project Contract dated _____, 195__, between ZEB ANGEL,

the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated NOV. 3, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 23rd day of NOVEMBER, 195.1

D. R. Roper

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. D.M.E.A. ~~2258~~ 2410

Date received 11-26-51

ORTHA ROPER MINE

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date 11/23/51

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? - STRATEGIC MICA -
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 11¼ miles N.W. of Franklin
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Burningtown
   (*d*) County, State. Macon, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production: THIS IS AN EXPLORATORY APPLICATION. PRODUCTION WILL START UPON SUCCESSFUL COMPLETION OF SAME.

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, even or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor: none

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

ZEB ANGEL
(Name of company)

By Zeb Angel
(Signature of authorized official)

11/23/51
(Date)

LESSEE
(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—63792-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

JUL 24 1952

Mr. Zeb Angel
Franklin
North Carolina

Subject: Docket No. DMEA-2410 - Mica
Ortha Roper Mine
Macon County, North Carolina

Dear Mr. Angel:

This is in reference to the subject application for assistance in exploring for mica at the Ortha Roper Mine, Macon County, North Carolina.

We understand that you no longer have a lease on the property. If this is the case, you should advise us of the situation. The proper way to do this is to write by return mail that you wish to withdraw your application as you have disposed of your interest in the lease.

If you still hold the lease and wish to proceed, please advise that this is the case as we have suspended the processing of your application until we hear from you. (Closed)

Sincerely yours,

Lawrence G. Houk

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Withdrawn

Mr. Hart.
This is correct and I wish to thank you for the interest you have taken in this property
I Thank you
Zeb Angel

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 28 1952

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

S Feitler
F E Johnson

JUL 24 1952

Mr. Zeb Angel
Franklin
North Carolina

Subject: Docket No. DMEA-2410 - Mica
Ortha Roper Mine
Macon County, North Carolina

Dear Mr. Angel:

This is in reference to the subject application for assistance in exploring for mica at the Ortha Roper Mine, Macon County, North Carolina.

We understand that you no longer have a lease on the property. If this is the case, you should advise us of the situation. The proper way to do this is to write by return mail that you wish to withdraw your application as you have disposed of your interest in the lease.

If you still hold the lease and wish to proceed, please advise that this is the case as we have suspended the processing of your application until we hear from you.

Sincerely yours,

cc
7/24/52

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

SAFeitler:mp 7/24/52
cc: Docket File
Adm. Reading File
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Field Team, Region VII
Mr. Houk

FILE COPY
SURNAME:

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

Room 13, Post Office Building
Knoxville, Tennessee

July 21, 1952

Memorandum

To: L. G. Houk, Acting Chief, Non-Metallic Minerals Div.

From: Executive Officer, DMEA-Region 7

Subject: DMEA-2409 and 2410 (mica) Zeb Angel, applicant.

It was noted in the denial of DMEA 2409 (Wildes Mine), that the application for assistance cannot be transferred to another individual (in this case, L. T. Sierema).

Please note that Mr. Sierema has also re-purchased the Ortha Roper lease (DMEA 2410) from Zeb Angel. Although we recommended a small amount of work at the ortha Roper, Mr. Sierema should be advised to file a new application, as in the case of the Wildes.

Robert A. Laurence

RAL/xx
cc:
Beck
Lynch
Files
Day file

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 25 1952

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

July 15, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2410, Ortha Roper Mine (mica); Zeb Angel, Applicant. Report of Field Examination.

I concur in the field team's recommendation for a two stage exploration program in the amount of $2,046.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 16 1952

IN REPLY REFER TO:

G-MD-PLW

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

June 26, 1952

807

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2410 (Mica)

To: L. G. Houk, Non-Metallic Minerals Division, DMEA
From: P. L. Weis, U. S. Geological Survey
Applicant: F. T. Siersma.
Name of property: Ortha Roper Mine.
Location of property: Macon County, North Carolina.
Date of field team report: May 19, 1952.
Authorship of field team report: R. W. Laurence, U. S. Geological Survey.
Field team's recommendation: The field team recommends an exploration contract for $1,841.40.
Comments: In spite of their recommendation the field team appears decidedly lukewarm on this application. In addition to some unfavorable comments on the probable quantity and quality of the mica, they point out that exploration is not likely to result in the discovery of a significant deposit.
ACTION SUGGESTED: Denial.

Paul L. Weis
Paul L. Weis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 26 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Room 13, Post Office Building
Knoxville, 2, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 26 1952

June, 23, 1952

Memorandum

To: Operating Committee , DMEA

From: Field Team, Region VII

Subject: DMEA-2410, Ortha Roper Mine (mica) Zeb Angel, Mica Samples

Enclosed are two samples of mica mentioned in the Field Team's report on the subject property which was mailed to you yesterday.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII

Need new
Consent to Lien
5 copies
Robert wife

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
June 23, 1952
Room 13, Post Office Building
Knoxville, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
WASHINGTON
JUN 25 1952

Memorandum

To: Operating Committee, D. M. E. A.

From: Field Team, D. M. E. A. Region VII

Subject: DMEA-2410, Ortha Roper Mine (mica); Zeb Angel, Applicant. Report of Field Examination

Enclosed herewith are 4 copies of Field Examination report on the subject application, and 6 extra copies of the map.

Please note that, although the application was submitted by Zeb Angel, the lease is now held by F. T. Siersma, who wishes to carry out the project. On June 9, we sent you a copy of the transfer of the lease from Angel to Siersma.

This deposit is one of many which show promise of producing a small amount of strategic mica, therefore, we suggest a small amount of work to explore the deposit.

Robert A. Laurence

Robert A. Laurence, Executive Officer
DMEA Region VII

Wm. A. Beck

Wm. A. Beck, for V. J. Lynch
U. S. Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2410, ORTHA ROPER PROSPECT
Macon County, North Carolina

By

William A. Beck, Mining Engineer
U. S. Bureau of Mines

Robert A. Laurence, Geologist
U. S. Geological Survey

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 25 1952

May 19, 1952

REPORT OF FIELD EXAMINATION

DMEA-2410, ORTHA ROPER PROSPECT, (mica) Macon County, N. C.
Applicant-Zeb Angel

The Ortha Roper prospect is located on the south side of Burningtown Creek, 8.3 airline miles N 74° W. from the courthouse square in Franklin, North Carolina. It is on land owned by Ortha Roper and wife. Mineral Rights were leased to Frank T. Siersma on November 3, 1951. Siersma sold his lease to Zeb Angel, the applicant, on November 10, 1951. Angel sold it back to Siersma on June 5, 1952.

The prospect is incorrectly located on the applicant's map. It should be south of the Burningtown road.

Apparently this pegmatite was not worked during World War II. According to Ortha Roper, one of his sons worked it intermittently in his spare time about 4 years ago, and sold some mica to commercial buyers.

In the past 2 weeks, Mr. Siersma has had the pegmatite exposed, the work being done by Gus Duvall of Franklin, N.C. An open cuts extends into the hill in a S 60° W. Direction for 30 feet, at which point it is 6 feet deep. It continues for about 25 feet in a S 10° W. direction, and is about 15 feet deep at the face. The last 8 to 10 feet are under an overhanging top, as the hill is quite steep. The pegmatite is incompletely exposed, even in this cut, but appears to trend approximately N 30° E. There is a thick (3 to 7 feet) quartz zone in the east side of the cut, dipping about 35° to the east. In the face and partly along the west side is a zone of kaolin 3 to 8 feet thick, underlying the quartz, and containing, especially near the footwall, a few small books of mica. More were seen lying around the floor of the cut than could be seen in place. Mr. Roper said that his son worked down to the east, under the quartz ledge, and obtained the mica which he sold.

Most of the mica from this pit is less than 2 " x 2", but some as large as 3" x 3" was given to us by Mr. Roper who said his son had taken it from below the quartz ledge. The mica is ruby in color, most of it is slightly bent and some shows "A" structure. Samples of the mica from the pit are submitted herewith, marked "1" (taken from present cut) and "2" (given us by Roper).

Because this pegmatite appears to be well zoned, and contains some mica which is probably saleable as strategic mica, it may justify a little surface work, followed by underground work if it then appears to be worth while. On the other hand, in common with other pegmatites in the Burning-

town area, the quantity and size of the mica may be expected to be small, raising the question whether such a discovery or development would be a "significant" one. On this basis, we propose making a bulldozer cut about 100 feet long, 35 feet wide and 15 feet deep, with a provisional second-stage shaft if approved later. The cut should not extend more than 50 feet north of the present cut, as the area to the north is covered by large bouldery alluvial deposit 10 feet or more thick.

Mr. Siersma, the present lessee and applicant, has not seen this deposit, and accepted Zeb Angel's proposals of work, but is agreeable to the program outlined above. He plans to hire Gus Duval or Norman Mashburn as working foreman, if the job is approved.

Description of the Work

The work to be performed on this project shall be done in two stages.

STAGE I- consists of stripping, by means of bull-dozer the overburden from an area approximately 100 feet long by 35 feet wide and 15 feet deep to uncover the pegmatite zone now partly exposed by former work. Approximately 10 days will be required to complete this work.

STAGE 2- consists of sinking a 5' x 8' shaft, 35 feet deep in the area uncovered by Stage I., if favorable showings are found by the stripping.

The commencement of the work on Stage 2 and its location shall be subject to the approval of the Executive Officer of the Regional Field Team. Time required is approximately 30 days.

The attached map indicates the approximate location of the work to be performed.

Estimated Costs of Project

(* Indicates Allowable Maximum)

STAGE I.

Independent Contracts

1 - Bulldozer (includes operator, maintenance, repairs, oil and fuel, and all other costs) 50 hours @ $10/hr. $500.00*

Labor and Supervision, Consultants

1 - Working Foreman @ $1.50/hr, 50 hours. 75.00

(3) Operating Materials and Supplies

Miscellaneous small tools, etc.	$25.00	
Total estimated cost STAGE I		$600.00*
Government's participation @ 90%		$540.00*

STAGE 2

(1) Independent Contracts

None

(2) Labor, Supervision, Consultants

2 - Miners-Timbermen- 18 shifts, @ $1.25/hr. ea.	$360.00	
1 - Hoistman-Foreman - 18 shifts @ $1.50/hr. ea.	216.00	
1 - Laborer - 18 shifts @ $1.00/hr	144.00	
	$720.00	

(3) Operating Material and Supplies

Timber	250.00	
Miscellaneous, supplies	100.00	
		$350.00

(4) Operating Equipment
To be rented

1 - 105 cu. ft. Air Compressor -1 mo.	164.00	
1 - Sump pump 1 mo.	112.00	
		276.00

(5) Rehabilitation and Repairs
None

(6) New Buildings, Improvements, Installations
None

(7) Miscellaneous

Social Security, Insurance, Taxes, etc.	100.00	
		100.00
Total estimated cost of Stage 2		$1,446.00*
Government's participation at 90%		$1,301.40*
Total Estimated Cost of Stages 1 and 2		$2,046.00*
Governments Participation @ 90%		$1,841.40*

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Room 13, Post Office Building
Knoxville 2, Tennessee

Beck
Lynch
Opr. Com.
Files

June 16, 1952

Mr. Frank Siersma
P.O. Box 336
Franklin, N. C.

Re: DMEA-2410 Ortha Roper Mine
(Mica)

Dear Mr. Siersma:

I have your letter of June 12, advising that this deposit is now exposed for examination. Mr. Beck and I will call on you in Franklin on Thursday morning, June 19, and will make the examination at that time.

Sincerely yours,

Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII

RAL/zm

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Room 13, Post Office Building
Knoxville, Tennessee

June 9, 1952

Memorandum

To: Operating Committee, DMEA

From: Executive Officer, DMEA Region VII

Subject: DMEA-2410, Ortha Roper Mine (mica) New Ownership

Transmitted herewith is copy of transfer of mineral lease on the subject property to Frank T. Siersma of Franklin, North Carolina.

Mr. Siersma states that he is now doing the necessary work to expose the pegmatite, preparatory to our field examination.

Robert A Laurence
Robert A. Laurence

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 11 1952

NORTH CAROLINA

MACON COUNTY

THIS INDENTURE, Made and entered into, this the 5th day of June, 1952 by and between ZEB ANGEL of Macon County, North Carolina, party of the first part, and FRANK T. SIERSMA of Macon County, North Carolina, party of the second part;

W I T N E S S E T H

That for and in consideration of the sum of ONE ($1.00) DOLLAR, and other good and valuable considerations, the receipt of which is acknowledged by the party of the first part, the said party of the first part has bargained, sold and conveyed, and by these presents does bargain, sell and convey unto the party of the second part, his heirs and assigns, all right, title and interest and estate in and to the following leases:

1. The lease made and entered into on October 29, 1951, by and between Bessie Johnson, Guardian of Elmer Johnson, and Frank T. Siersma, and recorded in Book A-6, page 300, Public Registry of Macon County, North Carolina.

2. The lease made and entered into on November 3, 1951, by and between Orpha Roper and wife, Bulah Roper, and Frank T. Siersma, and recorded in Book A-6, at page 322, Public Registry of Macon County, North Carolina.

Specific reference is hereby made to the foregoing Public Records for the lands and property covered by said leases and the terms and conditions of said leases or each of them.

And for the same consideration as heretofore set forth the said party of the first part stipulates and agrees that the agreement heretofore entered into between himself and the party of the second part on November 10, 1951, and recorded in Book A-6, at page 325, Public Registry of Macon County, North Carolina, shall be and is hereby concelled and shall be of no further force and effect; and that said party of the second part, his heirs and assigns, have been released, and by these presents are hereby released from any and all claims, rights or interests of the party of the first part, arising out of or in any manner whatsoever connected with said agreement.

TO HAVE AND TO HOLD the above said leases, rights and interests unto the party of the second part, his heirs and assigns, to his only use and behoof, free and clear from any rights, claims or interests whatsoever of the party of the first part in said leaseholds, or by virtue of the agreement hereinabove set forth.

IN WITNESS WHEREOF, the party of the first part has hereunto set his hand and seal, this the 5th day of June, 1952.

s/ Zeb Angel (SEAL)

NORTH CAROLINA

MACON COUNTY

The execution of the foregoing instrument was this day acknowledged before me by Zeb Angel, for the purpose therein expressed.

WITNESS my hand and seal, this the 5th day of June, 1952.

s/ Neal Johnston
Notary Public

My commission expires on the
9th day of October, 1952.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 11 1952

GENERAL SERVICES ADMINISTRATION

Spruce Pine, N. C.
July 18, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 21 1952

Mr. Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration Administration
Washington 25, D. C.

Subject: Docket No. DMEA-2410-Mica
" " DMEA-2533- "
" " DMEA-2557- "
" " DMEA-2561- "
" " DMEA-2575- "

Dear Mr. Houk:

Replying to your inquiry of July 17, beg to advise that sample number 2, of Everett L. and R. W. Poston, DMEA-2561, is ruby mica, and the sample shows a few black dots that are not acceptable on this Program, however, this mine may produce mica large enough to eliminate these spots in trimming, thereby making it acceptable on this Program.

The samples under DMEA-2533, Fred Wilson and J. Van Merry, are ruby mica, and if trimmed properly is saleable on this Program.

The sample from Anglin and Elkins mine, DMEA-2557, we find to be ruby mica, and if trimmed properly, would be acceptable on our Program.

The samples given by Beck and Lawrence, under DMEA-2410, we find to be ruby mica, and if large enough and properly trimmed, would be acceptable on this Program.

The sample given by Ortha Roper, under DMEA-2410, number 2 sample, we find to be ruby mica, and if properly trimmed, would be acceptable under this Program. The other sample enclosed under DMEA-2410, we find to be ruby mica, but has too many reeves to be acceptable under this Program.

Sample DMEA-2575, Conway Revis, we find to be ruby mica, but has considerable waves and buckles. If this mine produced large size mica, it might be that it would produce, by careful trimming, mica that would be acceptable on this Program.

I am returning, under separate cover, samples above referred to.

With best regards from the writer, I am

Very truly yours,

W. S. Flynt, Superintendent
Spruce Pine Mica Depot

WSF/krm
cc Robert A. Laurence

FILE COPY
SURNAME:

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

600
JUL 17 1952

Houk
Hughes

Mr. Walter E. Flynt, Manager
General Services Administration Depot
Box 846
Spruce Pine, North Carolina

Subject: Docket No. DMEA-2410 - Mica
" " DMEA-2533 - "
" " DMEA-2557 - "
" " DMEA-2561 - "
" " DMEA-2575 - "

Dear Mr. Flynt:

Transmitted herewith are five samples of mica for evaluation as to the probability of their acceptance for purchase by your agency. These samples are submitted in accordance with an agreement with Mr. W. M. B. Freeman of your Washington office. We would appreciate your sending a copy of the evaluation to Mr. Robert A. Laurence, Executive Officer, DMEA, Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee.

The following samples are submitted:

DMEA-2410 - Zeb Angel, Ortha Roper Mine
DMEA-2533 - Fred Wilson and John VanWarry
DMEA-2557 - K. L. Anglin and J. K. Elkins, Huskins Mine
DMEA-2561 - E. L. Foston and H. W. Foston
DMEA-2575 - Conway Revis

Sincerely yours,

cc 7/17/52

SIGNED
Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Enclosures - 5

LGHouk:mp 7/16/52
cc: Docket File
Adm. Reading File
Mr. Dietrich, 3 526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk
Field Team, Region VII

PS: An addressed envelope is enclosed for return of samples.

FILE COPY
SURNAME:

S. Feitler
Houk

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

600

APR 3 1952

Mr. Robert A. Laurence
Executive Officer
DMAA Field Team, Region VII
Room 13, Post Office Building
Knoxville 1, Tennessee

Subject: Docket DMAA-2410 - Mica
(Formerly DMA-2258)
Ortha Roper Mine
Macon County, North Carolina

Dear Mr. Laurence:

There is enclosed a copy of the docket of the above reference application.

We are notifying the applicant that a field examination of his property is being authorized, subject to his notifying you that he has cleaned out the trench on his property, from which it is reported that mica was recovered about two years ago, so that it will be accessible for the Field Team's inspection, and also to furnish you with a representative sample of any mica he obtains from the trench.

On receipt of such notification and sample, please arrange for an examination of the property by the Field Team. If warranted, a suitable exploration project should then be worked out with the applicant.

Sincerely yours,

(signed) FRANK E. JOHNSON (JHB)

Chairman, Operating Committee
Defense Minerals Exploration
Administration

S.N. 4.3.52

Enclosure - 5
Approved:

J. H. Hedges (JHB)
Member, Bureau of Mines

T. P. Thayer (JHB)
Member, Geological Survey

SAFeitler:FEJohnson:mp 4/2/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Johnson, 4624
Mr. Deitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

600

APR 3 1952

Mr. Zeb Angel
Franklin
North Carolina

Subject: Docket No. DMRA-2410 - Mica
Ortha Roper Mine
Franklin Mining District
North Carolina

Dear Mr. Angel:

Reference is made to your application for an exploration project and additional data regarding your property submitted under date of February 20, 1952.

The data submitted to this office does not indicate that our Field Team could see anything on your property to determine whether or not exploration is warranted. However, it is noted that about two years ago "A cut was made into the vein about 4½ feet wide and 10 feet long, of the exposed area, from which several blocks of mica were recovered".

It appears that this pit could be easily cleaned out by you and a representative sample of any mica exposed in the bottom could be obtained. We are, therefore, referring your application to Mr. Robert A. Lawrence, Executive Officer, DMRA Field Team, Region VII, Room 13, Post Office Building, Knoxville 1, Tennessee, and authorizing him to make an examination of your property upon receipt of notification from you that the pit has been cleaned out and also receipt of a representative sample of the mica exposed in the bottom of the pit.

Sincerely yours,
C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

S. W.
4-3-52

SAFeitler:FEJohnson:mp
4/2/52
cc: Adm. Reading File
Docket File
Operating Committee
Field Team, Region VII (2)
Mr. Johnson, 4624
Mr. Feitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

April 2, 1952

Memorandum

To: Lawrence G. Houk, Chief, Non-Metallic Minerals Division

From: Stanley A. Feitler

Subject: Docket DMEA-2410 - Mica (Formerly DMEA-2258)
Ortha Roper Mine
Macon County, North Carolina

The original application in the above case was poorly prepared and supplied insufficient information. Additional information was supplied after an official denial so a new docket number was applied.

It now appears likely that a field examination would be worthwhile, but only if the applicant cleans out the small pit so the pegmatite can be seen by the Field Team. It seems likely that the amount of preparatory work requested can be done by one man in one or two days. This is in line with the type of prospect and the amount of aid requested.

Stanley A. Feitler

IN REPLY REFER TO:

G-MD-JJN

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

March 20, 1952

2410

Memorandum

To: L. G. Houk, Non-Metallic Minerals Division
Defense Minerals Exploration Administration

From: J. J. Norton, U. S. Geological Survey

Subject: Review of new data submitted to supplement four mica applications from Franklin, North Carolina, which previously were reviewed by this office and found to contain insufficient data to warrant field examination.

1. Zeb Angel's application DMEA-2409 for the Angel Wildes prospect, previously reviewed by this office on December 26, 1951, as DMEA-2220.

2. Zeb Angel's application DMEA-2410 for the Ortha Roper prospect, previously reviewed by this office on December 26, 1951, as DMEA-2258.

3. C. L. Bateman's application DMEA-2411 for the Clyde Bateman prospect, previously reviewed by this office on December 27, 1951, as DMEA-2281.

4. Randall Mining Company's application DMEA-2412 for the Randall prospect, previously reviewed by this office on December 26, 1951, as DMEA-2284.

RECOMMENDATIONS: I am somewhat uncertain what policy DMEA will adopt for mica in the future, and for this reason I do not know precisely what to recommend on these applications. It has been a fundamental assumption in the philosophy governing DMEA, as we understand it, that the exploration program should be directed toward discovery of <u>significant</u> deposits. In processing applications of this sort, however, we can fritter away a large amount of energy with little chance of making significant discoveries. Consequently, I find it impossible to be enthusiastic about applications like these and others that we have received from the Franklin, North Carolina, group. In this state of uncertainty, I cannot confine my recommendations to a single suggestion for each of these applications, but instead I offer a choice of the following alternatives:

1. The best plan is to hold these applications in abeyance pending clarification of DMEA mica policy now that the GSA purchase program has been announced.

2. A second possibility is denial on the ground that none of the applications have demonstrated a reasonable chance of finding a significant deposit. This plan is most suitable for Zeb Angel's application DMEA-2409 for the Angel-Wildes prospect.

3. Another possibility is denial on the ground that the applicant's data indicate that the most suitable plan for operating this prospect is as follows: (A) the applicant should operate the property by pits and/or underground work, defraying part of his expenses by the sale of mica to GSA. (B) when and if this work results in evidence that a larger exploration program may result in discovery of a significant deposit, a new application should be submitted to DMEA. This plan is most appropriate for C. L. Bateman's application DMEA-2411 for the Clyde Bateman prospect. No applicant should be advised to follow this procedure until GSA has offered assurance that they are ready to purchase mica in the southeast.

4. Still another possibility is to instruct the applicant to clean out the pits and underground openings so that the pegmatite is well exposed and a field examination can be made. This plan is most suitable for Zeb Angel's application DMEA-2410 for the Ortha Roper prospect.

5. The final possibility is referral to the field team. The Randall Mining Company's application DMEA-2412 for the Randall prospect is most nearly suitable for field examination.

J. J. Norton

J. J. Norton

D 2410

2/20/52 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE DMEA-~~2258~~

ATTENTION: Mr. C. O. Mittendorf, Acting Administrator, D.,.E.A.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 25 1952

This application was denied on January 22, 1952. It is believed the following information will permit you to reconsider same.

Although only a small amount of prospecting has been done on the Ortha Roper mine, EXCELLENT evidence has been produced that it contains high grade strategic ruby mica. The pegmatite, containing quartz, mica, etc., has been exposed about ten feet square. The work was done about two years ago by Ortha Roper, the owner, and has just been thoroughly examined by Applicant who has had more than 30 years experience in the Franklin Mining District.

A cut was made into the vein about 4½ feet wide and 10 feet long, of the exposed area, from which several blocks of mica were recovered; one weighing over six pounds. After sheeting, some up to 4" x 6", a sale was made to Fred Arnold, local fabricator's buyer, for $7.00. Mr. Roper did not consider that low prices, at that time, would warrant further effort on his part. The mine remained inactive until Applicant secured lease.

This property lies close to the Poll Miller mine and in line with the Chalk Hill mines several miles distant. The area is known, by local miners, to be productive of only strategic mica. This fact is also known to your Field Team.

Applicant considers, by reason of his experience, that his application comes within the scope of exploration and that same will produce positive evidence of the presence of commercial ore bodies.

In working this prospect, it is proposed to bulldoze off the overburden, as stated in application, and then locate proper position in which to sink shaft. Requirements are not large. Applicant is certain that Field Team will concur with all statements.

You are respectfully requested to reconsider this subject and trust it will become your opinion to establish the Ortha Roper mine as one of the District's producing operations.

- - - - -

2410

2/20/52 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE DMEA-~~2258~~

ATTENTION: Mr. C. O. Mittendorf, Acting Administrator, D.,.E.A.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 28 1952

This application was denied on January 22, 1952. It is believed the following information will permit you to reconsider same.

Although only a small amount of prospecting has been done on the Ortha Roper mine, EXCELLENT evidence has been produced that it contains high grade strategic ruby mica. The pegmatite, containing quartz, mica, etc., has been exposed about ten feet square. The work was done about two years ago by Ortha Roper, the owner, and has just been thoroughly examined by Applicant who has had more than 30 years experience in the Franklin Mining District.

A cut was made into the vein about 4½ feet wide and 10 feet long, of the exposed area, from which several blocks of mica were recovered; one weighing over six pounds. After sheeting, some up to 4" x 6", a sale was made to Fred Arnold, local fabricator's buyer, for $7.00. Mr. Roper did not consider that low prices, at that time, would warrant further effort on his part. The mine remained inactive until Applicant secured lease.

This property lies close to the Poll Miller mine and in line with the Chalk Hill mines several miles distant. The area is known, by local miners, to be productive of only strategic mica. This fact is also known to your Field Team.

Applicant considers, by reason of his experience, that his application comes within the scope of exploration and that same will produce positive evidence of the presence of commercial ore bodies.

In working this prospect, it is proposed to bulldoze off the overburden, as stated in application, and then locate proper position in which to sink shaft. Requirements are not large. Applicant is certain that Field Team will concur with all statements.

You are respectfully requested to reconsider this subject and trust it will become your opinion to establish the Ortha Roper mine as one of the District's producing operations.

- - - - -

2410

2/20/52 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE DMEA-2250

ATTENTION: Mr. C. O. Mittendorf, Acting Administrator, D.,.E.A.

This application was denied on January 22, 1952. It is believed the following information will permit you to reconsider same.

Although only a small amount of prospecting has been done on the Ortha Roper mine, EXCELLENT evidence has been produced that it contains high grade strategic ruby mica. The pegmatite, containing quartz, mica, etc., has been exposed about ten feet square. The work was done about two years ago by Ortha Roper, the owner, and has just been thoroughly examined by Applicant who has had more than 30 years experience in the Franklin Mining District.

A cut was made into the vein about 4½ feet wide and 10 feet long, of the exposed area, from which several blocks of mica were recovered; one weighing over six pounds. After sheeting, some up to 4" x 6", a sale was made to Fred Arnold, local fabricator's buyer, for $7.00. Mr. Roper did not consider that low prices, at that time, would warrant further effort on his part. The mine remained inactive until Applicant secured lease.

This property lies close to the Poll Miller mine and in line with the Chalk Hill mines several miles distant. The area is known, by local miners, to be productive of only strategic mica. This fact is also known to your Field Team.

Applicant considers, by reason of his experience, that his application comes within the scope of exploration and that same will produce positive evidence of the presence of commercial ore bodies.

In working this prospect, it is proposed to bulldoze off the overburden, as stated in application, and then locate proper position in which to sink shaft. Requirements are not large. Applicant is certain that Field Team will concur with all statements.

You are respectfully requested to reconsider this subject and trust it will become your opinion to establish the Ortha Roper mine as one of the District's producing operations.

- - - - -

FILE COPY
SURNAME:

600

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

JAN 22 1952

Houk
Norton
Dalrymple
Thayer
Hodges
Feldman
Mittendorf

Mr. Zeb Angel
Franklin
North Carolina

Re: Docket DMA 2258X - Mica
Ortha Roper
Zeb Angel

Dear Mr. Angel:

Your application for exploration assistance at the Ortha Roper Mine in Macon County, North Carolina, has been reviewed by the Defense Minerals Exploration Administration.

A careful study of your proposal does not show that the probability of making a significant discovery of strategic mica is encouraging enough to warrant Government participation in this work.

Projects for approval by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding strategic minerals in quantities that will materially improve our mica supply position for National Defense. Your application is herewith denied.

The Defense Minerals Exploration Administration wishes to thank you for making this application and regrets that we cannot approve expenditure of U. S. Government funds for exploration assistance on your property.

Sincerely yours,

1-22-52

C. O. Mittendorf (for)

Acting Administrator
Defense Minerals Exploration
Administration

LGHouk/meb
1-14-52
cc to: Adm.Reading File
Docket File Copy
Mr. Josephson
Mr. Norton
Mr. Houk
Reg.VII(2)

Geological Survey

December 26, 1951

Memorandum

To: Nonmetallics Mineral Div. Defense Minerals Exploration Administration

From: Donald H. Kupfer, U. S. Geological Survey

Subject: Zeb Angel's (DMEA-) for aid in exploring the Ortha Roper prospect for pegmatite minerals.

Location of prospect: 1½ miles NE of Poll Miller Mine; NW of Franklin, Macon Co., North Carolina

Recommendation (check one):

1. Deny the application.
2. Request applicant for more data.

Reasons for recommendation (check all applicable statements):

1. The application does not contain specific reasons to show why the applicant considers exploration worthwhile. Any field evidence is presented to show that the prospect merits a field examination.
2. A rough sketch map of the property is needed showing size and location of deposits.
3. The location of the property is inadequately described.
4. The name of the prospect is inadequately identified. Several mines and prospects having this name are in this district, and the applicant does not show clearly which one this application covers.
5. This is apparently an old mine or prospect, but the applicant's description of the workings is incomplete.
6. Production figures given in the application are quite inadequate, and it seems probable that better data can be obtained.
7. The applicant gives no information on the quality and size of the mica.
8. A sample of the mica should be requested.
9. The applicant's property evidently has some (beryl, tantalite-columbite, cassiterite) but no evidence has been provided to show that there is any chance of finding a minable deposit. The applicant should be asked to submit sample(s) from his prospect containing at least (20 pounds of beryl, 5 pounds of tantalite-columbite, 5 pounds of cassiterite).
10. The applicant's proposed expenditures for supervision and overhead seem disproportionately large in relation to expenditures for actual exploration.
11. The suggested program of exploration is vague and incomplete.
12. We can find no information in our files on this property.
13. This property has previously been examined, and the report in our files indicates that exploration is not worth-while unless the applicant can provide new evidence that a discovery may be made.
14. Other: 4 "Roper" properties
3 "Angel" properties

Concur: W. F. Dietrich

Copy to: Lyndon Hopkins Sale, 4612
DMEA
Norton, C-210, US Bldg.

Subject: DMEA-2258
Re: Exploration Loan
Ortha Roper Mine

Mr. Zeb Angel
Franklin,
North Carolina

My dear Mr. Angel:

This will acknowledge receipt of your application dated November 23, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2258 and referred to the Non-Metallics Branch.

Kindly refer to DMEA-2258 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Reports & Records Unit

7862

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

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

NOV 26 10 41 AM '51

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

Not To Be Filled in by Applicant

Docket No. D.M.E.A. 2254 2410
Metal or Mineral
Date Received 11-26-51
Amount $
Participation (Government %)

ORTHA ROPER MINE

Name and address of applicant

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

Date 11/23/51

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

DMA Docket Number (if available)

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, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*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. BOTH ARE THE SAME

   (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. SUB. AGREEMENTS ATTACHED

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

   (*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. SEE ATTACHED

   (*b*) State the time required to start the project and to complete it. WILL START UPON SIGNING OF CONTRACT AND COMPLETE WITHIN 30 DAYS

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.

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. NONE

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. SEE ATTACHED

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

   (*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. SEE ATTACHED

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. SEE ATTACHED

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

    (*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)? yes

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.

ZEB ANGEL
(Name of company)

By Zeb Angel
(Signature of authorized official)

11/23/51
(Date)

LESSEE
(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

MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. Copy of lease, etc., attached.

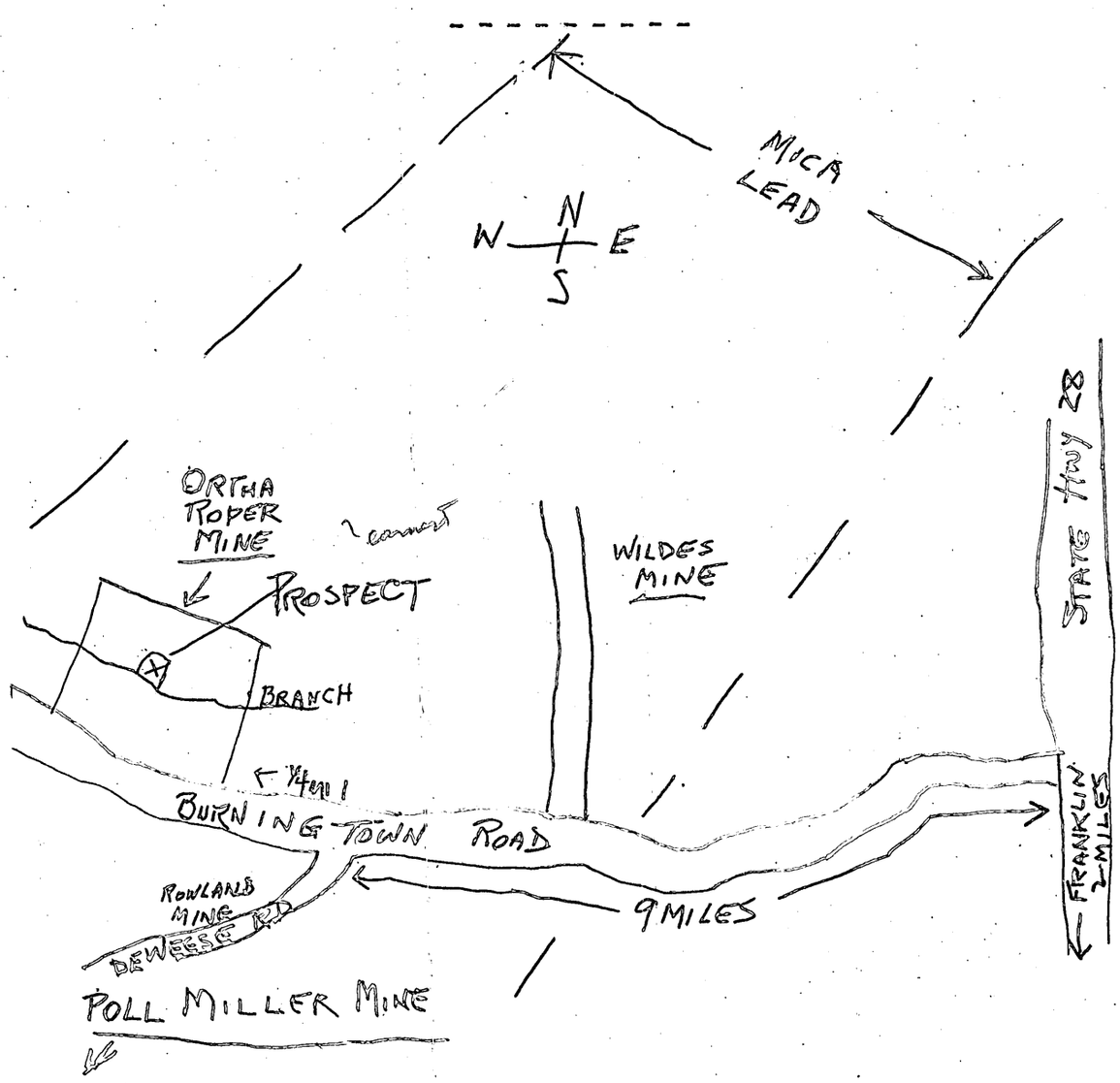
2. This property lies directly within the main mica lead passing through the Franklin District; close to past producing mines and about 1½ miles N.E. of the Poll Miller Mine which was one of the high producers of strategic ruby mica during World War 11. Very little work has been done on this particular site but it is ideal for exploration. All of the best pegmatite signs are in evidence and in sufficient size to expect commercial ore bodies will be exposed. The property has long been sought after by local miners of experience.

3. Proposed work will consist of bulldozing off the overburden to prepare for shafting; a distance of150 feet long, 35 feet wide and 15 feet deep. The shaft will be sunk to a depth of 35 to 45 feet and will then be in the vein proper. Since this will be below the water line, hard and solid blocks of strategic mica will then appear and be ready for recovery.

4. A sketch of the proposed project and its location as to nearby mines, appears below. Examination by the Field Team will reveal that it is in the known mica bearing area and will confirm all statements.

COST OF PROJECT:

Bulldozing (in soft ground), rental, 65 hours @ $10.00	$ 650.00
Pump rental, 30 days @ $5.00 per day	150.00
Timber for shafting	245.00
Miscellaneous hand tools	100.00
Working Foreman, 30 days @ $15.00 per day	450.00
4 Laborers, 30 days each @ $10.00 per day each	1200.00
Misc. expenses, sampling, office, payroll taxes, etc.	115.00
TOTAL COST	$ 2,910.00



MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. COPY OF LEASE, ETC.

COUNTY OF MACON
STATE OF NORTH CAROLINA

THIS LEASE AGREEMENT, made and entered into this 3rd day of November, 1951, by and between ORTHA ROPER and wife BULAH ROPER of Macon County, North Carolina, parties of the first part and Frank T. Siersma of Franklin, N.C., party of the second part,

WITNESSETH, that subject to the terms and conditions hereinafter set forth the parties of the first part have let and leased unto the party of the second part, his heirs, and assigns, the exclusive right and privilege to mine, dig and remove all minerals now in, under and upon a certain tract or parcel of land, consisting of 12 acres more or less, lying and being in Macon County, N. C., and being more particularly described as follows:

BEING on the Burningtown Creek, beginning on a stake in the Mrs. Bateman line running with Mrs. Bateman line in a southerly direction to the Government line thence with the Government line to Swofford's line in the Public Road, to a state, then with the road to the beginning; being the lands conveyed by deed from Frank Haney and wife Jane haney to Orpha Rpoer on August 5, 1927.

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

1. Unless sooner terminated as herein provided, this lease shall exist and continue for a term of five (5) years from date hereof; however, it is mutually agreed that, upon compliance with its terms and conditions, same shall be automatically extended from year to year thereafter.

2. As rental or royalty, the party of the second part, his heirs and assigns, shall pay to the parties of the first part a sum equal to ten percent (10%) of all sheet, pattern or block mica, One Dollar ($1.00) per ton for all scrap mica, Fifty Cents (50¢) per ton for all feldspar and the usual royalties for all other minerals mined and sold from said property.

3. That all royalties shall be paid on the 15th day of each calendar month following the sale and receipt of the sale price thereof.

4. Parties of the second part, their heirs or assigns, shall keep an accurate record of all sales of minerals from this property which shall be open to inspection by the parties of the first part.

5. In the event the parties of the second part should apply for a government loan to explore or operate this property, the parties of the first part agree to execute any agreements the government may require in connection with same.

So long as this lease remains in force the party of the second part, his heirs and assigna, inconnection therewith shall have and enjoy the following rights and privileges:

(a) The right to use the surface of said lands to the full extent that such use is reasonable, convenient or necessary in mining and removing the minerals therefrom and to use any portions of said surface for the purpose of dumping mine refuse and tailings as may be reasonably necessary or convenient.

(b) The right to construct and place buildings and machinery upon said lands and to remove same.

(c) The right to cut and use upon said lands, for the purposes herein set forth, any standing timber thereon at the time of such use.

(d) The right to use any water upon said property as may be necessary in the course of said operation.

(e) The right to use existing roads and to construct and maintain roads, in such locations as the party of the second part may deem advisable, and complete

1. COPY OF LEASE, ETC. (cont'd):

right of ingress, egress and regress to and from such portions of said property where mining operations are in progress or to be conducted.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

s/ O. R. Roper (SEAL)
s/ Bulah Roper (SEAL)
s/ Frank T. Siersma (SEAL)

ASSIGNMENT OF LEASE TO APPLICANT

NORTH CAROLINA

MACON COUNTY

KNOW ALL MEN BY THESE PRESENTS that I, Frank T. Siersma of Macon County, North Carolina, have this 10th day of November, 1951, for the sum of One Dollar ($1.00) and other good and valuable considerations, bargained and sodl, and by these presents do bargain and sell, to ZEB ANGEL, of Macon County, North Carolina, all my right, title and interest in and to that certain lease described as follows:

BEING a lease from Orpha Roper and Bulah Roper to Frank T. Siersma dated November 3, 1951.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this, the 10th day of November, 1951.

s/ Frank T. Siersma (SEAL)

- - - -

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of MACON, State of NORTH CAROLINA, described in a certain Exploration Project Contract dated _____, 195__, between ZEB ANGEL, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated NOV. 3, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 23rd day of NOVEMBER, 195.1.

O. R. Roper

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. D.M.E.A. 2258 2410

Date received 11-26-51

ORTHA ROPER MINE

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date 11/23/51

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? - STRATEGIC MICA -
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 11¼ miles N.W. of Franklin
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Burningtown
   (*d*) County, State. Macon, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

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

NOV 26 10 41 AM '51

Not To Be Filled in by Applicant

Docket No. D.M.E.A. 2258 2410
Metal or Mineral
Date Received 11-26-51
Amount $
Participation (Government %)

ORTHA ROPER MINE

Name and address of applicant

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

Date 11/23/51

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

DMA Docket Number (if available)

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, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*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. BOTH ARE THE SAME

   (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. SUB. AGREEMENTS ATTACHED

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

   (*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. SEE ATTACHED

   (*b*) State the time required to start the project and to complete it. WILL START UPON SIGNING OF CONTRACT AND COMPLETE WITHIN 30 DAYS

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.

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. NONE

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. SEE ATTACHED

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

   (*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. SEE ATTACHED

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. SEE ATTACHED

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

    (*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)? YES

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.

ZEB ANGEL
(Name of company)

By [signature]
(Signature of authorized official)

11/23/51
(Date)

LESSEE
(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

MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. Copy of lease, etc., attached.

2. This property lies directly within the main mica lead passing through the Franklin District; close to past producing mines and about 1½ miles N.E. of the Poll Miller Mine which was one of the high producers of strategic ruby mica during World War 11. Very little work has been done on this particular site but it is ideal for exploration. All of the best pegmatite signs are in evidence and in sufficient size to expect commercial ore bodies will be exposed. The property has long been sought after by local miners of experience.

3. Proposed work will consist of bulldozing off the overburden to prepare for shafting; a distance of150 feet long, 35 feet wide and 15 feet deep. The shaft will be sunk to a depth of 35 to 45 feet and will then be in the vein proper. Since this will be below the water line, hard and solid clocks of strategic mica will then appear and be ready for recovery.

4. A sketch of the proposed project and its location as to nearby mines, appears below. Examination by the Field Team will reveal that it is in the known mica bearing area and will confirm all statements.

COST OF PROJECT:

Bulldozing (in soft ground), rental, 65 hours @ $10.00	$ 650.00
Pump rental, 30 days @ $5.00 per day	150.00
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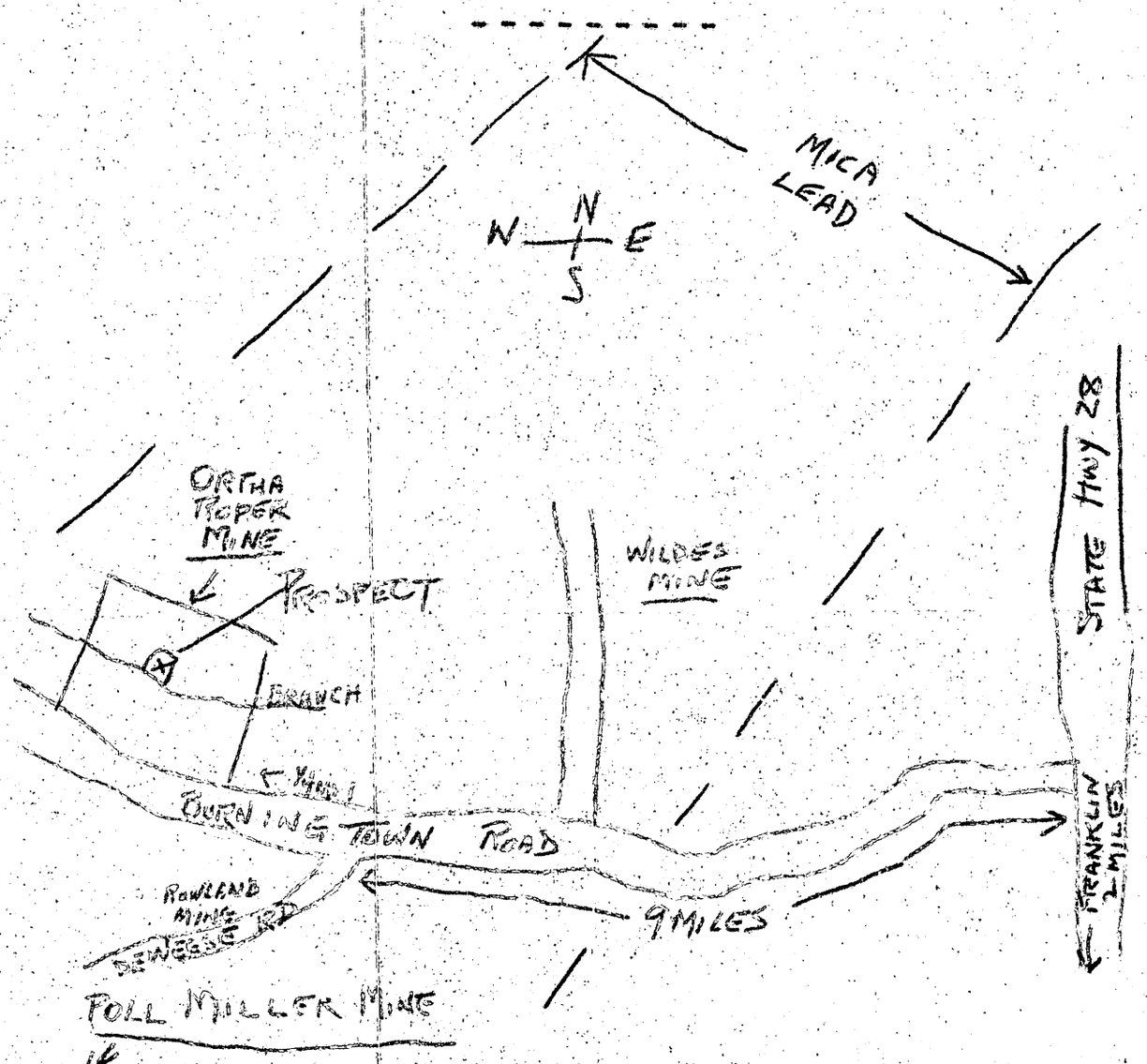
Miscellaneous hand tools	100.00
Working Foreman, 30 days @ $15.00 per day	450.00
4 Laborers, 30 days each @ $10.00 per day each	1200.00
Misc. expenses, sampling, office, payroll taxes, etc.	115.00
TOTAL COST	$ 2,910.00



MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. COPY OF LEASE, ETC.

COUNTY OF MACON
STATE OF NORTH CAROLINA

THIS LEASE AGREEMENT, made and entered into this 3rd day of November, 1951, by and between ORTHA ROPER and wife BULAH ROPER of Macon County, North Carolina, parties of the first part and Frank T. Siersma of Franklin, N.C., party of the second part,

WITNESSETH, that subject to the terms and conditions hereinafter set forth the parties of the first part have let and leased unto the party of the second part, his heirs, and assigns, the exclusive right and privilege to mine, dig and remove all minerals now in, under and upon a certain tract or parcel of land, consisting of 12 acres more or less, lying and being in Macon County, N. C., and being more particularly described as follows:

BEING on the Burningtown Creek, beginning on a stake in the Mrs. Bateman line running with Mrs. Bateman line in a southerly direction to the Government line thence with the Government line to Swofford's line in the Public Road, to a state, then with the road to the beginning; being the lands conveyed by deed from Frank Haney and wife Jane haney to Orpha Rpoer on August 5, 1927.

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

1. Unless sooner terminated as herein provided, this lease shall exist and continue for a term of five (5) years from date hereof; however, it is mutually agreed that, upon compliance with its terms and conditions, same shall be automatically extended from year to year thereafter.

2. As rental or royalty, the party of the second part, his heirs and assigns, shall pay to the parties of the first part a sum equal to ten percent (10%) of all sheet, pattern or block mica, One Dollar ($1.00) per ton for all scrap mica, Fifty Cents (50¢) per ton for all feldspar and the usual royalties for all other minerals mined and sold from said property.

3. That all royalties shall be paid on the 15th day of each calendar month following the sale and receipt of the sale price thereof.

4. Parties of the second part, their heirs or assigns, shall keep an accurate record of all sales of minerals from this property which shall be open to inspection by the parties of the first part.

5. In the event the parties of the second part should apply for a government loan to explore or operate this property, the parties of the first part agree to execute any agreements the government may require in connection with same.

So long as this lease remains in force the party of the second part, his heirs and assigns, inconnection therewith shall have and enjoy the following rights and privileges:

(a) The right to use the surface of said lands to the full extent that such use is reasonable, convenient or necessary in mining and removing the minerals therefrom and to use any portions of said surface for the purpose of dumping mine refuse and tailings as may be reasonably necessary or convenient.

(b) The right to construct and place buildings and machinery upon said lands and to remove same.

(c) The right to cut and use upon said lands, for the purposes herein set forth, any standing timber thereon at the time of such use.

(d) The right to use any water upon said property as may be necessary in the course of said operation.

(e) The right to use existing roads and to construct and maintain roads, in such locations as the party of the second part may deem advisable, and complete

1. COPY OF LEASE, ETC. (cont'd):

right of ingress, egress and regress to and from such portions of said property where mining operations are in progress or to be conducted.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

s/ O. R. Roper (SEAL)
s/ Bulah Roper (SEAL)
s/ Frank T. Siersma (SEAL)

ASSIGNMENT OF LEASE TO APPLICANT

NORTH CAROLINA

MACON COUNTY

KNOW ALL MEN BY THESE PRESENTS that I, Frank T. Siersma of Macon County, North Carolina, have this 10th day of November, 1951, for the sum of One Dollar ($1.00) and other good and valuable considerations, bargained and sodl, and by these presents do bargain and sell, to ZEB ANGEL, of Macon County, North Carolina, all my right, title and interest in and to that certain lease described as follows:

BEING a lease from Ortha Roper and Bulah Roper to Frank T. Siersma dated November 3, 1951.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this, the 10th day of November, 1951.

s/ Frank T. Siersma (SEAL)

- - - -

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of LACON, State of NORTH CAROLINA, described in a certain Exploration Project Contract dated _____, 195__, between ZED ARGIL,

the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated NOV. 3, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 23rd day of NOVEMBER, 1951.

O. R. Ropel

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. D.M.E.A. ~~2254~~ 2410

Date received 11-26-51

ORMA ROPER MINE

ZEB ANGEL
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date 11/23/51

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? - STRATEGIC MICA -
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 11½ miles N.W. of Franklin
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Burningtown
   (*d*) County, State. Macon, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

THIS IS AN EXPLORATORY APPLICATION!

10. Production: PRODUCTION WILL START UPON SUCCESSFUL COMPLETION OF SALE.

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor: none

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

ZEB ANGEL
(Name of company)

By [signature]
(Signature of authorized official)

11/23/51
(Date)

LESSEE
(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—63792-1

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DEFENSE MINERALS ADMINISTRATION
WASHINGTON D. C.

Budget Bureau No. 42-R1035.1.

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

Nov 26 10 41 AM '51

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. D.M.E.A.-2258 2410
Metal or Mineral
Date Received 11-26-51
Amount $
Participation (Government %)

DMA DOCKET FILE

Name and address of applicant

ZIN ANGEL
FRANKLIN
NORTH CAROLINA

Date 11/23/51

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

DMA Docket Number (if available)

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, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*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. BOTH ARE THE SAME

   (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. NO. AGREEMENTS ATTACHED

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

   (*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.

16—64067-2

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. SEE ATTACHED

   (*b*) State the time required to start the project and to complete it. WITHIN TEN DAYS OF CONTRACT AND COMPLETE WITHIN 30 DAYS

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.

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. NONE

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. SEE ATTACHED

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

   (*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. SEE ATTACHED

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. SEE ATTACHED

10. (*a*) How much are you prepared to invest in the proposed project? 100

    (*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)? YES

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.

SEE ATTACHED
(Name of company)

By [signature]
(Signature of authorized official)

12/22/82
(Date)

SEE ATTACHED
(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

MF-103 ZEB ANGEL FRANKLIN, N.C. ORTHA ROPER MINE 11/23/51

1. Copy of lease, etc., attached.

2. This property lies directly within the main mica lead passing through the Franklin District; close to past producing mines and about 1½ miles N.E. of the Poll Miller Mine which was one of the high producers of strategic ruby mica during World War II. Very little work has been done on this particular site but it is ideal for exploration. All of the best pegmatite signs are in evidence and in sufficient size to expect commercial ore bodies will be exposed. The property has long been sought after by local miners of experience.

3. Proposed work will consist of bulldozing off the overburden to prepare for shafting; a distance of150 feet long, 35 feet wide and 15 feet deep. The shaft will be sunk to a depth of 35 to 45 feet and will then be in the vein proper. Since this will be below the water line, hard and solid clocks of strategic mica will then appear and be ready for recovery.

4. A sketch of the proposed project and its location as to nearby mines, appears below. Examination by the Field Team will reveal that it is in the known mica bearing area and will confirm all statements.

COST OF PROJECT:

Bulldozing (in soft ground), rental, 65 hours @ $10.00	$ 650.00
Pump rental, 30 days @ 35.00 per day	150.00
Timber for shafting	245.00
Miscellaneous hand tools	100.00
Working Foreman, 30 days @ $15.00 per day	450.00
4 Laborers, 30 days each @ $10.00 per day each	1200.00
Misc. expenses, sampling, office, payroll taxes, etc.	115.00
TOTAL COST	$ 2,910.00

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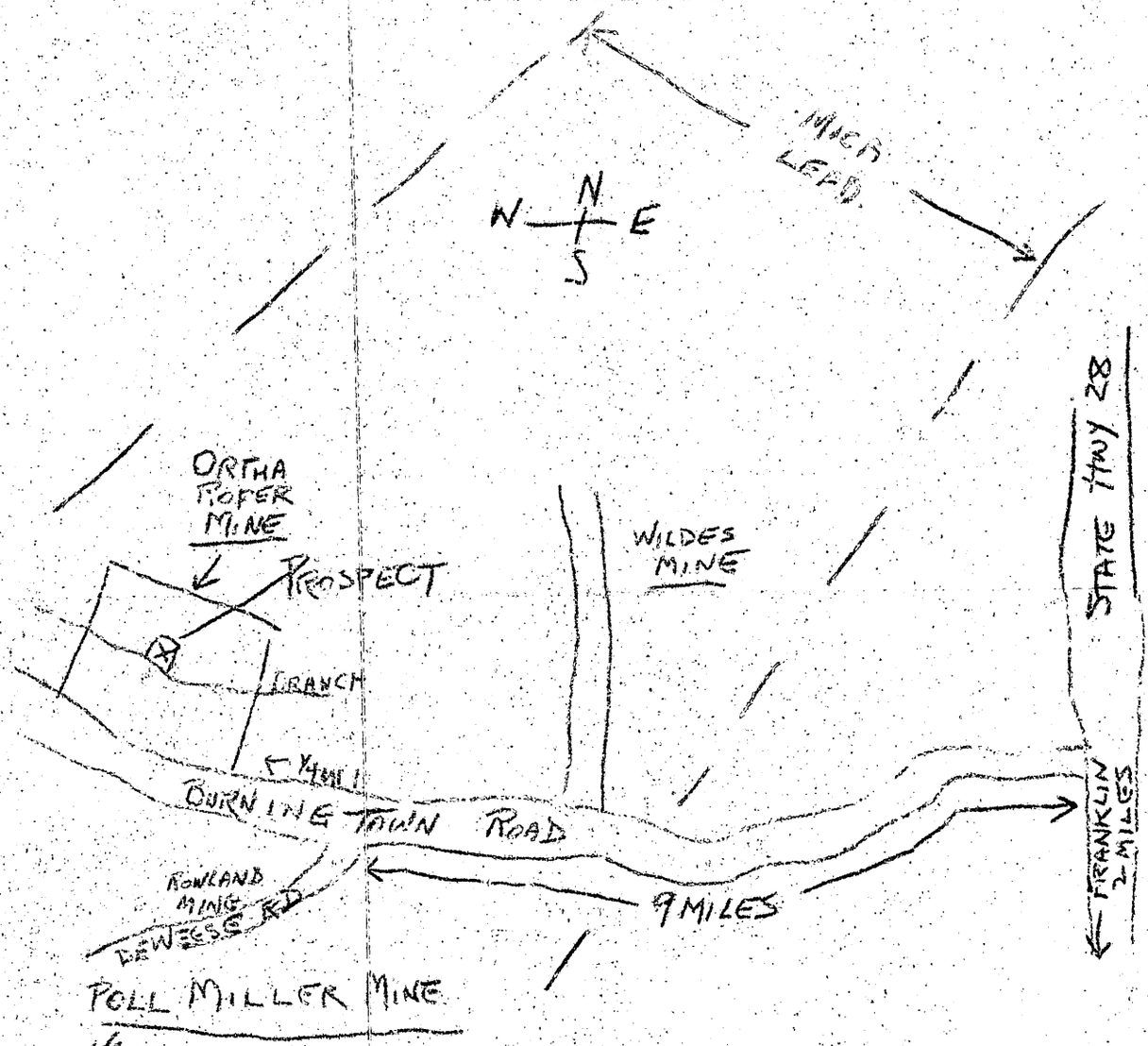


1. COPY OF LEASE, ETC. (cont'd):

right of ingress, egress and regress to and from such portions of said property where mining operations are in progress or to be conducted.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

s/ O. R. Roper (SEAL)
s/ Dulah Roper (SEAL)
s/ Frank T. Sierema (SEAL)

ASSIGNMENT OF LEASE TO APPLICANT

NORTH CAROLINA

MACON COUNTY

KNOW ALL MEN BY THESE PRESENTS that I, Frank T. Sierema of Macon County, North Carolina, have this 10th day of November, 1951, for the sum of One Dollar ($1.00) and other good and valuable considerations, bargained and sodl, and by these presents do bargain and sell, to ZEB ANGEL, of Macon County, North Carolina, all my right, title and interest in and to that certain lease described as follows:

BEING a lease from Orpha Roper and Dulah Roper to Frank T. Sierema dated November 3, 1951.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this, the 10th day of November, 1951.

s/ Frank T. Sierema (SEAL)

- - - -

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of [illegible], State of [illegible], described in a certain Exploration Project Contract dated _____, 195__, between [illegible], the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated _____ [illegible], does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this [illegible] day of [illegible], 195[illegible].

O. K. Roper

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. D.M.E.A. - 2258 2410

Date received 11-26-51

[redacted]

[redacted]

Name and address of applicant

Date 11/23/51

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? - [redacted] -
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. [redacted] miles N.W. of Franklin
   (*b*) Mining district. Franklin
   (*c*) Township, Section, Range. Burlington
   (*d*) County, State. Macon, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production: [illegible]

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, even or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

(Name of company)

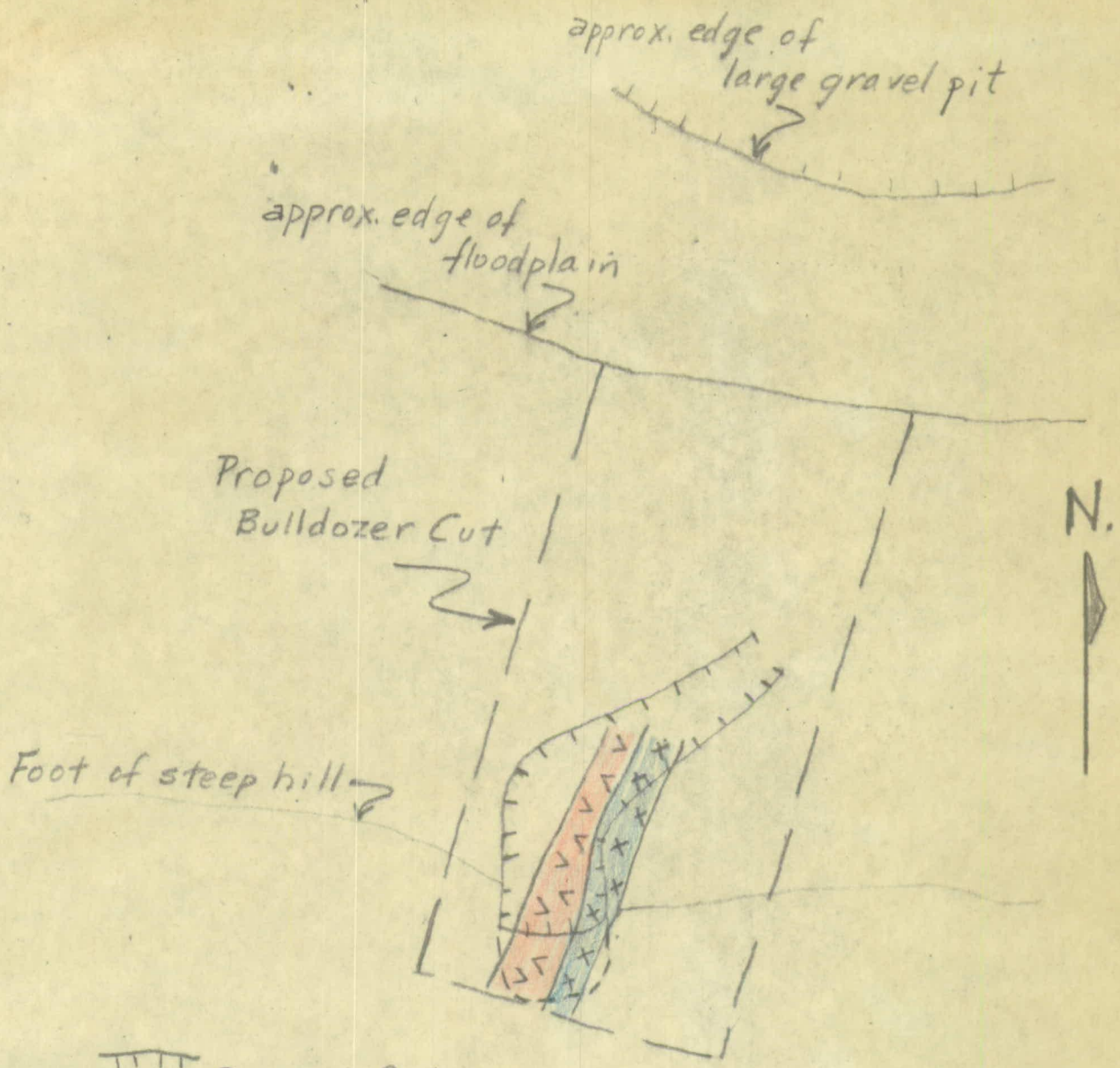
By (Signature of authorized official)

(Date)

(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—63792-1



Present Cut

Quartz

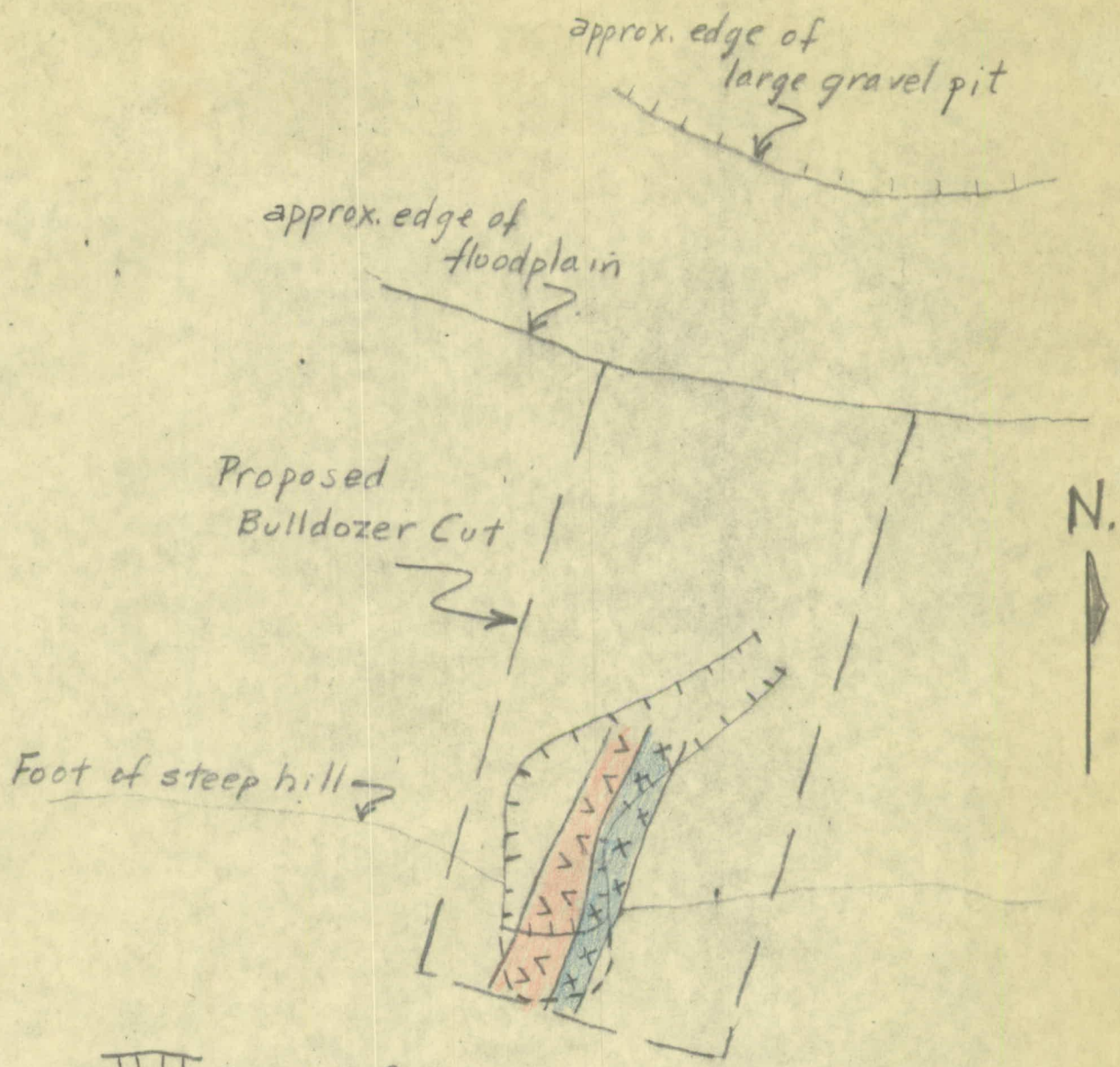
Kaolin, with quartz and muscovite

Scale 1" = 20 ft., approx.

DMEA - 2410.

Ortha Roper Mine (MICA)

6/20/52



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Kaolin, with quartz and muscovite.

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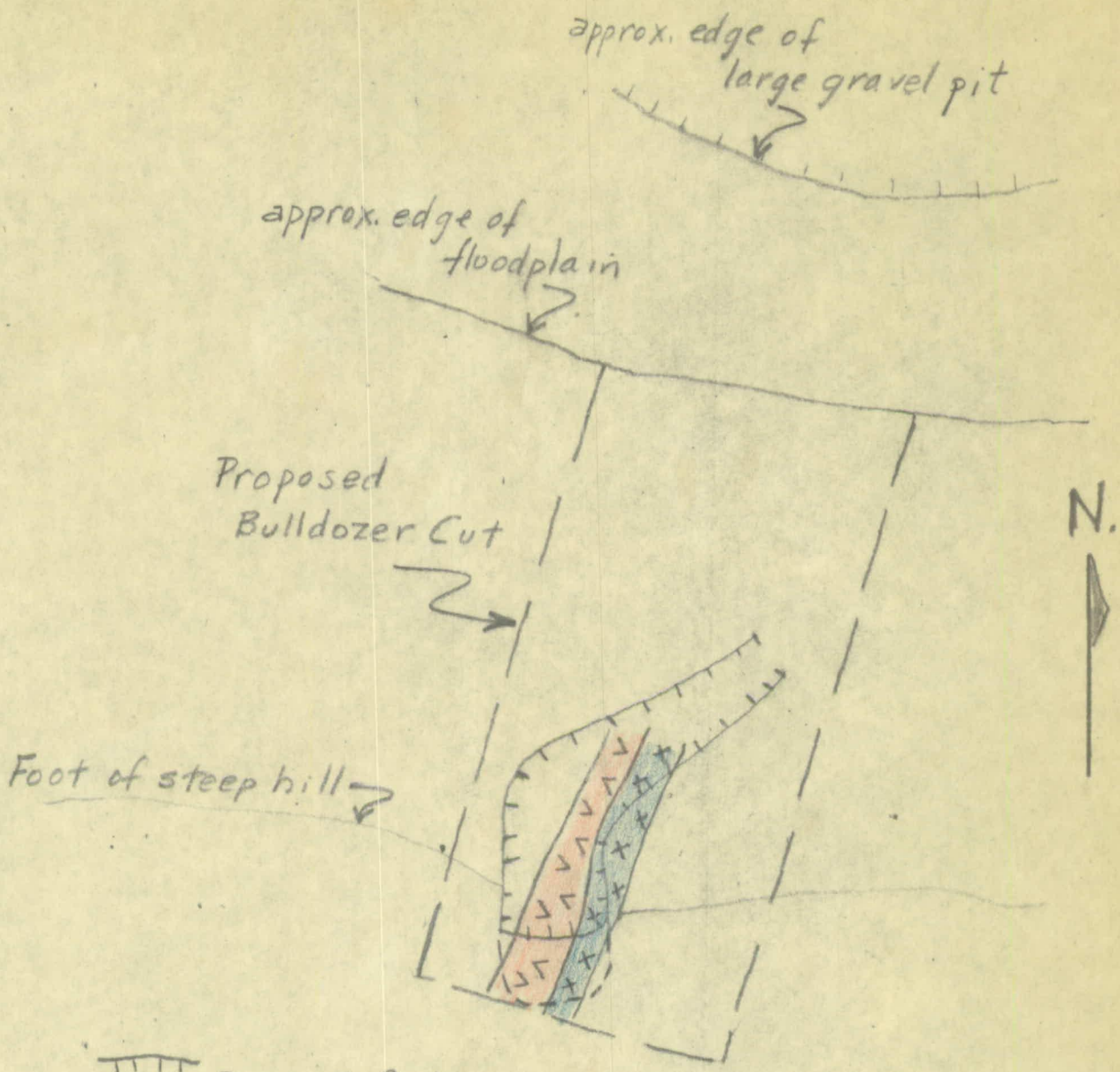
DMEA - 2410.

Ortha Roper Mine (MICA)

6/20/52



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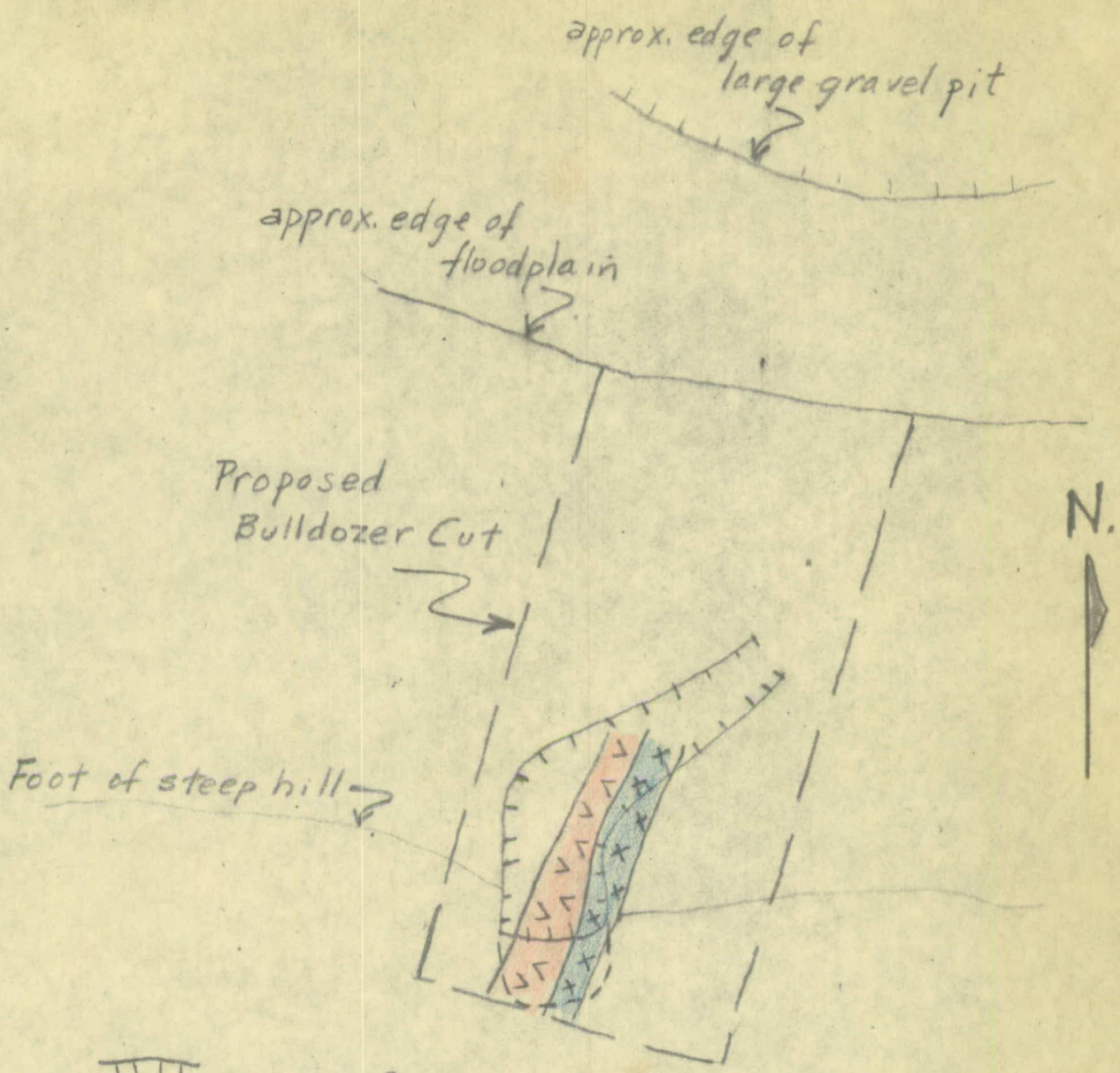
DMEA - 2410.

Ortha Roper Mine (MICA)

6/20/52



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Quartz

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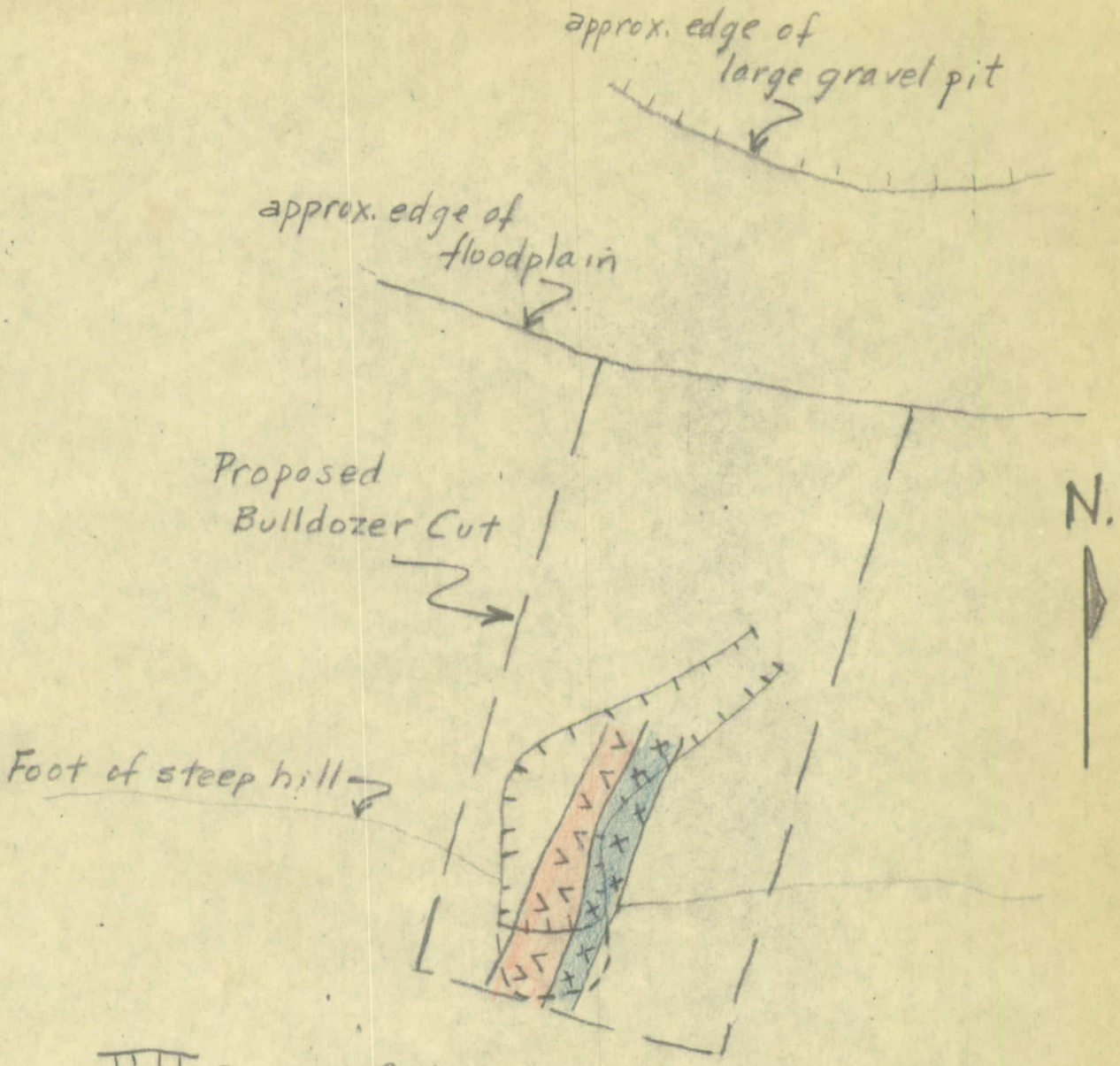
Scale 1" = 20 ft., approx.

DMEA - 2410.

Ortha Roper Mine (MICA).

6/20/52



Present Cut

Quartz

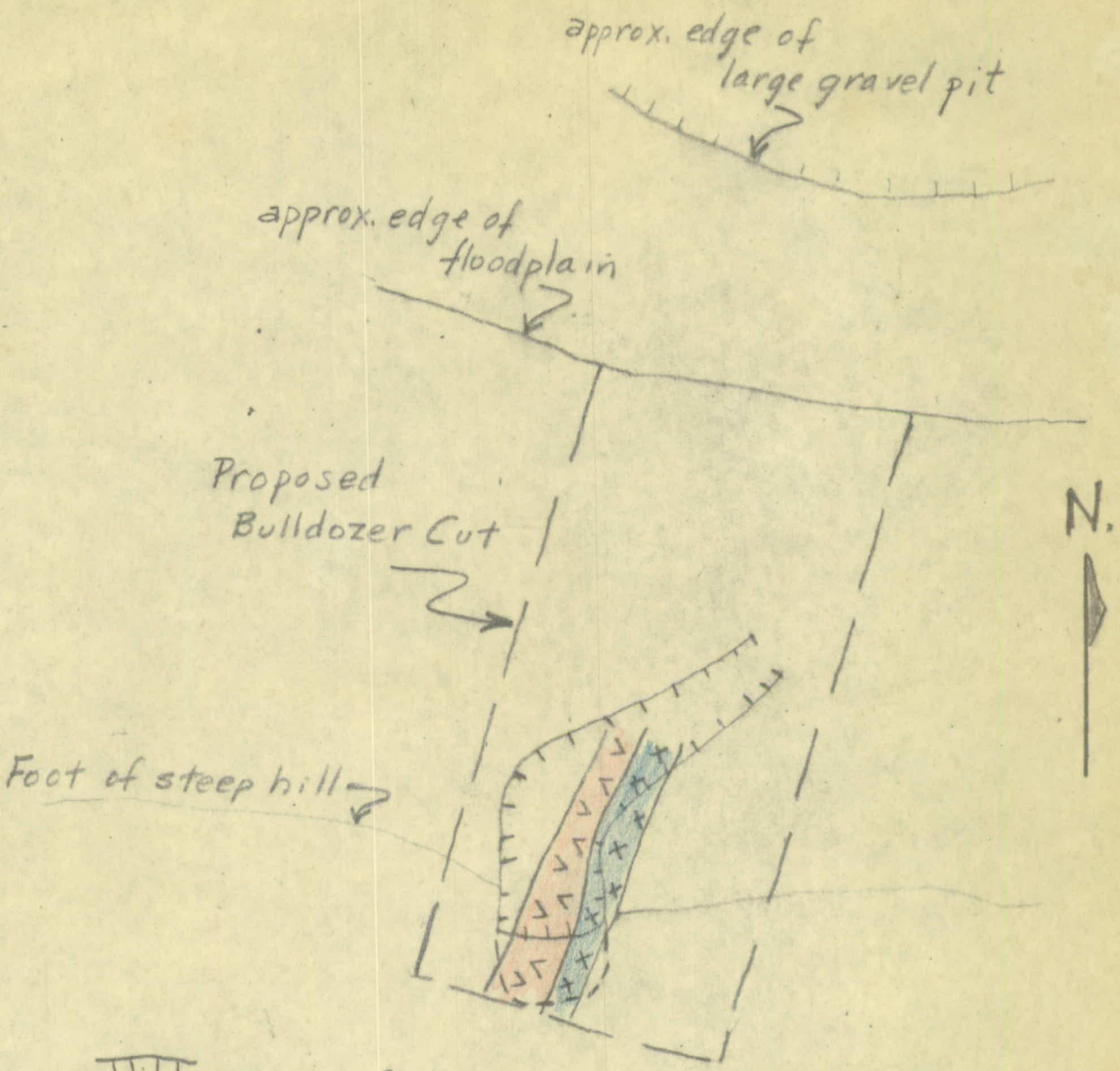
Kaolin, with quartz and muscovite.

Scale 1" = 20 ft., approx.

DMEA - 2410.

Ortha Roper Mine (MICA)

6/20/52



Present Cut

Quartz

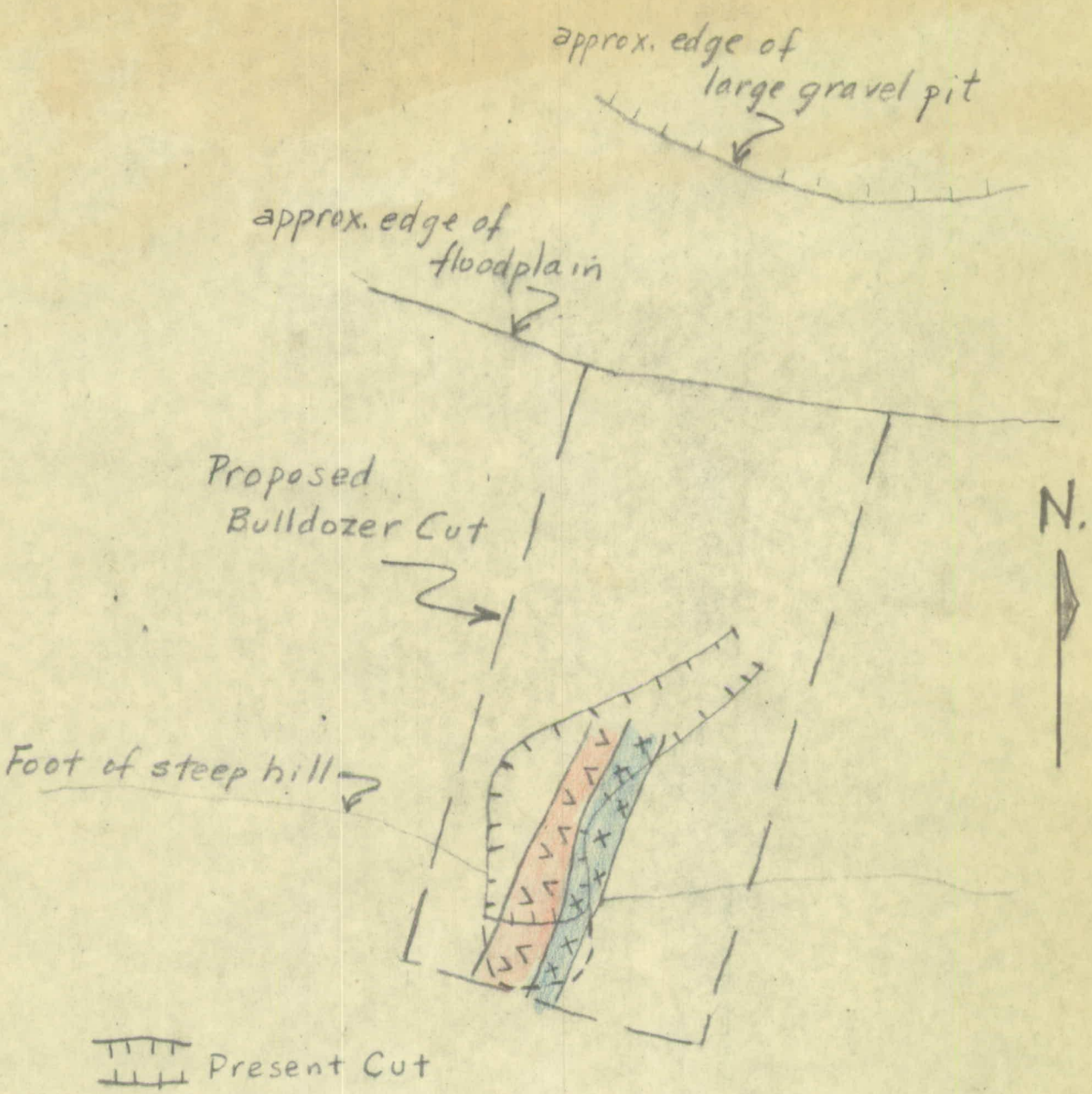
Kaolin, with quartz and muscovite

Scale 1" = 20 ft., approx.

DMEA - 2410.

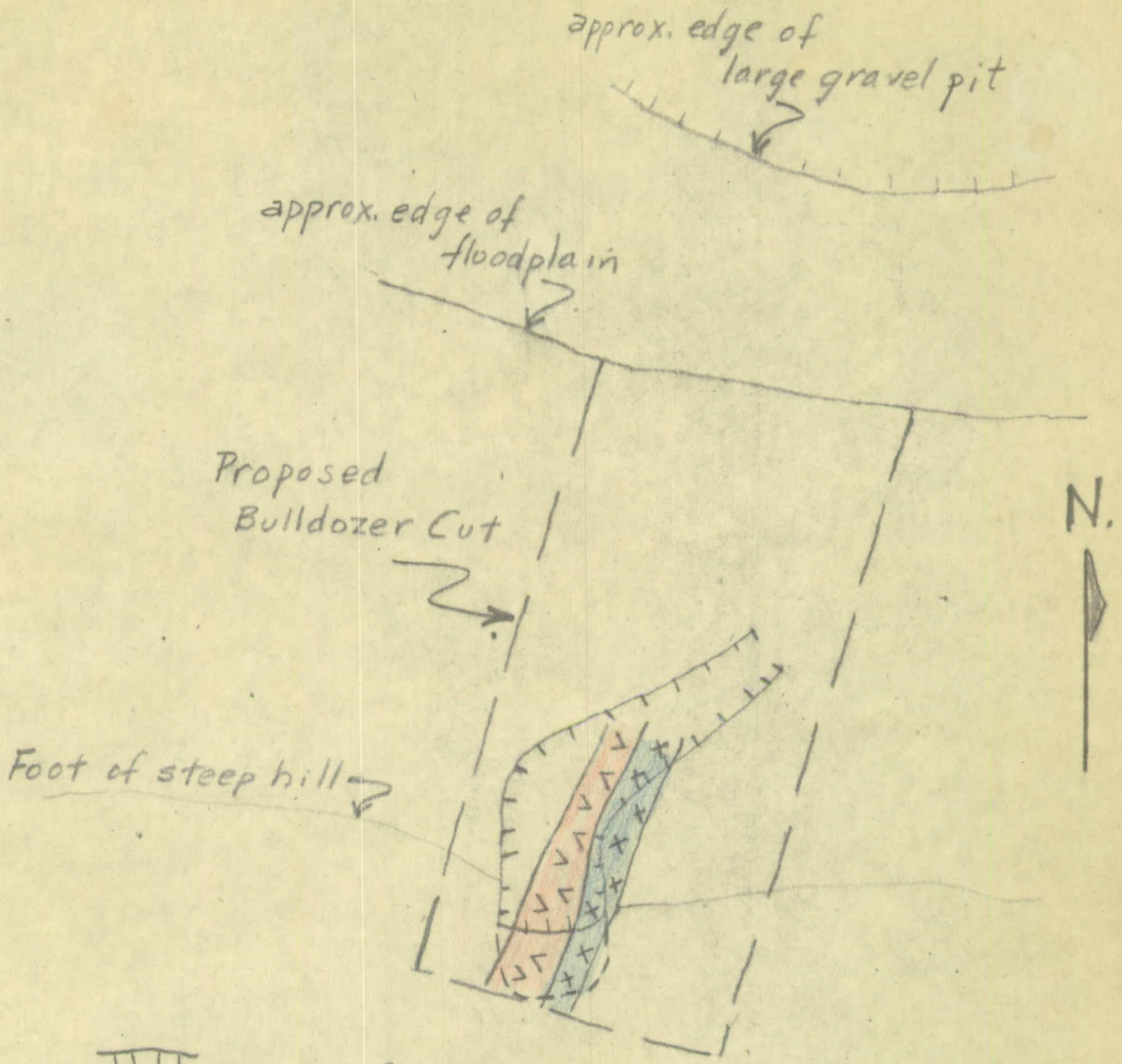
Ortha Roper Mine (MICA)

6/20/52



Scale 1" = 20 ft., approx

DMEA - 2410.
Ortha Roper Mine (MICA)
6/20/52



Present Cut

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Kaolin, with quartz and muscovite.

Scale 1" = 20 ft., approx.

DMEA - 2410.

Ortha Roper Mine (MICA)

6/20/52