DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 3595

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Exploration Assistance

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Cys to USBM, USGS, & Reg.

Routing Slip

To:	600	Date	12/7/54
To:	Hopkins	Date	12/8/54
To:	Oper Com	Date	1-4-55
To:	Oper Com	Date	2-17-55
To:	Oper Com	Date	3-11-55
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CONTROLLED DOCUMENT

DOCKET COPY
Surname:

Hopkins
Houk
Hodges
Kiilsgaard
Selfridge
J. E. Jameson

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

MAR 15 1955

Mr. Paul Warren
P. O. Box 194
Sylva, North Carolina

Re: Docket No. DMEA-3595 - Mica
Paul Warren
Betty's Creek Mine No. 1
Jackson County, North Carolina

Dear Mr. Warren:

Your application for aid for an exploration project and other data available to us in Washington relating to the above-named property have been reviewed.

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

Careful study of all our information indicates to us that the probability of disclosing significant reserves of mica by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf
By ESF
Administrator

JHopkins:ad 3/11/55
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.G.

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

March 10, 1955

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance and summary report

By: James Hopkins

1. Docket No. DMEA-3595 - Mica
Property: Betty's Creek Mine No. 1
Jackson County, North Carolina

Applicant: Paul Warren
P. O. Box 194
Sylva, North Carolina

Application: MF-103 received December 6, 1954.
operator 100' Tunnel @$35 $3500 L.G.4

Field Team Work proposed:

Crosscut and drift	
100 feet @ $32.00/ft.	$3,200.00
Construct: Explode magazine	13.00
Powder magazine	25.00
Total cost of project	$3,238.00

No contract: Application denied.

2. Comments:

The applicant proposes to extend a short crosscut adit 50 feet to intersect a pegmatite and drift 50 feet to reach the projection of the widest part of the pegmatite that had yielded the greatest part of past production on upper levels. Past production is reliably reported to have been mica valued at $4,691.17.

The proposed adit will be but 15.5 feet under the lowest workings, and a map furnished by the Field Team indicates that the lowest workings, which is an under hand stope on Adit No. 1 level has reached the "Possible limit of mica shoot".

The mica is reported by the Field Team to be of strategic grade but much of it is warped with wavy cleavage and ruling due to considerable faulting in the area. It is not evenly distributed throughout the pegmatite but occur in local and small concentrations (pockets.)

Past production of $4,600.00 (odd figures) has resulted from about 200 feet of development work or $23.00 per foot. Present cost of drifting is approximately $32.00 to $35.00 per foot. Future production can not be expected to exceed past production and therefore an economical operation cannot reasonably be expected from the proposed exploration work.

The Nonmetallic Minerals Division therefore recommends that the application be denied.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM POST OFFICE BLDG.
WASHINGTON 25, D. C.
KNOXVILLE 2, TENN.

February 24, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region V - Knoxville, Tenn.

Subject: DMEA-3595 (mica) Paul Warren. Berry's Creek No. 1, Mine
Jackson County, N. C.

Reference is made to your letter of February 21, concerning the subject application.

We have no additional information which is not contained in the field examination report. It is our opinion, as expressed in the report, that the target was sufficiently attractive to justify the work outlined, but if review by the commodity specialists indicates otherwise, we have no objection to the denial of the application.

Robert A. Laurence
Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

V. J. Lynch
U. S. Bureau of Mines

DOCKET FILE
Surname:

Hopkins
Houk
Martin
Johnson

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

600

FEB 21 1955

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Subject: Docket No. DMEA-3595 - Mica
Paul Warren
Betty's Creek Mine No. 1
Jackson County, North Carolina

Dear Mr. Laurence:

Reference is made to the Field Team examination report of January 11, 1955, concerning the subject property.

The Field Team recommends a contract to explore an area 15.5 feet below the old workings on the subject property by cross-cutting and drifting 100 feet from an adit recently started by the applicant. The actual target will be the projection of a pocket in the widest part of the unzoned pegmatite which had yielded most of the production valued at $4,691.17 in the upper adits. We are inclined to deny the application since most of such projects in the past have been disappointing and because the target size does not justify the expenditure. The project is also unattractive because the mica is distributed sporadically in this irregular pegmatite.

Action on the subject application will not be taken until we hear from you again. Possibly the Field Team has information not contained in the report that will enable us to make a better evaluation of the project.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

JHopkins:ad 2/17/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.L.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1955

February 16, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Brooke L. Gunsallus, Acting for Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-3595 (mica)

Applicant: Paul Warren

Name and Location of Property: Betty's Creek Mine No. 1
Jackson County, North Carolina

Date of Field Team Report: January 12, 1955

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: January 25, 1955

Field Team Recommendation:

1. Approval of contract.

Comments:

1. Numerous pegmatite dikes are exposed.
2. Cost of labor and equipment for sinking a 75-foot shaft would roughly be equal to the cost for a 100-foot drift and if water were encountered possibly would be much higher.
3. Proposed exploration outlined by the field team is consistent with good engineering practices and estimated costs are in line with other DMEA projects.

Recommendation:

I concur in the field team's recommendation for an exploration project in the amount of $3,238.

Brooke L. Gunsallus

Brooke L. Gunsallus

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

JAN 18 1955

Mr. Paul Warren
P. O. Box 194
Sylva, North Carolina

Re: Docket No. DMEA-3595 - Mica
Paul Warren
Betty's Creek Mine No. 1
Jackson County, North Carolina

Dear Mr. Warren:

Reference is made to your application for exploration assistance on the subject property.

Paragraph 3 of your application (Form MF-103) states that you own the mine and all land surrounding the mine. Please send a legal description of your property giving metes and bounds description tied in to an established corner or other permanent land mark.

We shall be pleased to continue processing your application upon receipt of the legal description of your property.

Sincerely yours,

Lawrence G. Houk

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 26 1955

Following is the legal description of the property in question:
BEGINNING at a large beech on a stony point near Bett's branch and runs thence West 214 poles; thence South 60 West 66 poles from the West boundary line of No. 159 crosses said branch and runs thence South 44 West 60 poles to a hickory; thence West 45 poles to a hickory; thence South 84 poles to a large chestnut; thence East 100 poles to a black oak; thence to the BEGINNING, containing 56 acres, more or less.

The description is referred to in the following Jackson County Deed Books and pages:

Book 69 at page 140
Book 76 at page 259
Book 117 at page 317. All are in the chain of title.

Paul Warren

IN REPLY REFER TO:

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

DEPARTMENT OF
Defense Minerals
RECEIVED
JAN 21 1955

January 20, 1955

Re: DMEA-3595
Paul Warren
(Betty's Creek Mine)
Jackson Co., N. C.
$3,238 - Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

The Field Team has recommended exploration assistance be approved for the Betty's Creek mine. Their proposed project consists of extending the new 14 foot adit about 50 feet and then drifting about 50 feet in pegmatite.

The objective of the work is to explore for an extension of a mica-bearing pegmatite which has previously been mined in the No. 1 adit. The location of the exploration is planned to test down the plunge of this pegmatite body at a level about 35 feet below the No. 1 adit. This exploration will test the thickest part of the pegmatite which has been the richest source of mica in the upper working.

I concur with the Field Team's conclusions and agree that development of a new adit is the best method for exploring the proposed target area.

E. L. Newcomb

E. L. Newcomb

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1000 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

WASHINGTON 25, D.C.

RECEIVED
JAN 14 1955

January 12, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team. DMEA - Region VII - Knoxville

Subject: Field Examination Report on DMEA-3595 (mica), Jackson County, N. C.
Paul Warren, Sylva, N. C. Applicant, Bettys Creek No. 1 Mine

Enclosed are four copies of the subject examination report, and six extra copies of the map.

We agree with the field examiners conclusion that exploration of this pegmatite is worthwhile and recommend approval of a contract as outlined in the report, using the unit-cost, short form contract.

This is not the same pegmatite as the one being explored At Betty's Creek No. ~~2~~ 3 (DMEA-3188).

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

Reviewed by
DMEA OPERATING COMMITTEE
1-21-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

Received
JAN 14 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD TEAM EXAMINATION REPORT, REGION VII

ON

DMEA-3595, BETTY'S CREEK MINE NO. 1
(mica) Jackson County, N. C.

BY

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

and

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

January 11, 1955

Reviewed by
DMEA OPERATING COMMITTEE
1-21-55
(date)

FIELD EXAMINATION REPORT
ON
DMEA-3595, BETTY'S CREEK MINE No.1
(mica)

Applicant: Paul Warren, P.O. Box 194, Sylva, North Carolina

This deposit was a producer of strategic mica during World War II. No work has been done since that time. Mica of stockpile grade is present; exploration assistance is recommended.

The deposit was examined on January 3, 1955. Mr. Paul Warren, Jr. accompanied the examiners on the inspection which required one hour.

The Betty's Creek Mine No. 1 is 1.5 miles N. 15° E. of Watauga Gap, Jackson County, North Carolina. It is accessible from Sylva via U. S. Highway No. 23 and the Bettys Creek Road; a distance of approximately 15 miles. Access is good at all times.

The applicant is competent to conduct the proposed work. He owns the property; all property boundaries are outside the area shown on the attached map. The nearest property boundary is approximately one-fourth mile from the deposit.

All openings are now caved and are inaccessible except for a short adit recently begun by the applicant. Extent and distribution of old workings are shown on the attached map prepared by J. C. Olson, U. S. G. S., June 1944. Much of the following report is taken from the manuscript report which accompanied the above map.

"The principal opening is an adit 110 feet long (Adit 1 on accompanying map), which passes beneath an open cut that was made with the bulldozer. The bulldozer had been employed to expose several irregular pegmatite bodies previously encountered in one or two pits and short adits. One of these older adits is now being reopened (Adit 2). Another adit (Adit 3) is new, and has been driven 15 feet to prospect two pegmatite bodies uncovered by the bulldozer. Present operations are carried on in all three adits."

"The country rock in the vicinity is a hornblende gneiss whose foliation generally strikes north and dips steeply east. This gneiss is irregularly folded near the pegmatites, so that its strike varies within limits of 45 degrees east and west of north. The dip is greater than 45 degrees, and commonly is nearly vertical."

" In a narrow zone where the pegmatites are most abundant, mica gneiss, containing both muscovite and biotite, is the country rock. Its close association with the pegmatite and quartz veins suggest that it may have been formed by alteration of the hornblende gneiss."

" About a dozen small, irregularly-shaped pegmatite bodies are exposed within the mapped area. They cut across the foliation of the country rock in most places. Most are less than 4 feet thick, but the pegmatite that has yielded nearly all the strategic mica ranges from 2 to a maximum of 10 feet. It is best exposed in Adit 1, from which most of the recent production has come. This adit intersected the pegmatite at a distance of 35 feet from the portal, then followed pegmatite averaging 4 feet in thickness to a point 75 feet from the portal, where the pegmatite body swelled to 10 feet. At this point it forked. One branch was followed N. 80° E. for 15 feet, and the other was followed S. 50° E. for 12 feet before it pinched out abruptly."

" A similar fork is present in Adit 2, where it lies almost directly above that in Adit 1. The line of junction of the two branches of the pegmatite, where the thickest mass of pegmatite is found, evidently pitches southeastward at an angle of 60 to 70 degrees."

"The pegmatite consists of quartz, potash and soda feldspar, muscovite, and a little garnet and biotite. The mica blocks are distributed sporadically in the main pegmatite, occurring in "pockets" rather than in a well-defined zone. Most of the mica has been obtained from the thickest parts of the pegmatite body. In Adit 2, quartz lenses less than a foot thick were observed near the middle of the pegmatite, but the mica is not particularly abundant near them. Localization of mica near the walls is not apparent."

"The mica has a clear rum color and is of fairly good quality. Black staining is uncommon, and the principal defects are (1) warped or wavy cleavages, and (2) ruling. This is similar to mica from other mines in the immediate vicinity, and the defects appear to be the result of faulting; at least 4 faults can be seen in the main adit. The bent or broken books lower the average size of the strategic mica that can be produced from this deposit."

"The amount of mica obtained in the operations thus far encourages further work. The thickest pegmatite bodies are the best sources of mica in this deposit, and evidence indicates that the thickest and richest pegmatite body plunges southeastward at an angle of 60-70 degrees. Attention should be focused on this pegmatite, and the mining might well be planned on the assumption that the greatest extension will probably be in the direction of

this plunge. A winze from the lower adit or a steeply-inclined shaft from the surface might be employed."

This deposit was discovered and worked during World War II. Records available to the field examiners show that $4691.17 worth of mica was sold from the deposit to the Colonial Mica Corporation. The applicant suggests that production has been considerably larger; however, he gives no figures.

The only facility available on the property is a tool house. Magazines will be needed.

Recently the applicant began an adit 28.5 feet lower than Adit 1. At the time of the examination this new adit had been advanced 14 feet in a S. 70° E direction. If this adit were turned to about S. 50° E. it should intersect pegmatite about 50 feet beyond the present face. After pegmatite is encountered, all work should be along the pegmatite to the southeast.

The examiners believe that the best way to explore the deposit is to continue the new adit in about a S. 50° E. direction for an additional 100 feet. None of the old openings are available for use and there is a good possibility that most of the pegmatite above Adit 1 has been removed, thus the remaining mica-bearing pegmatite is probably all located below Adit 1. Another possibility is to sink a shaft from the surface in the pegmatite zone. This would involve a shaft at least 75 feet deep. It would probably be in old works and water thus presenting a difficult timbering problem. We believe that the quickest and most economical approach is to drive the adit, thus recommend it.

Estimated Cost:

	Exploder magazine	~~$13.00~~ 15.00
	Powder "	25.00
Drive 100 feet of crosscut and drift (50 shifts)		
Labor:	1 - miner @ $1.50/hr.	$600.00
	2 - laborers @ $1.00/hr.	800.00
Equipment (rental)		
	Compressor, drill and jackleg @$230/mo.	575.00
Supplies:		
	Explosives	300.00
	Gasoline and oil	200.00
	Drill steel	150.00
	Rail	75.00
	Pipe and airline	100.00
	Hand tools	100.00

Supplies cont'd

Timber, 1000 b.f. @ $60/M	$60.00
Miscellaneous	100.00
Social Security & Insurance	140.00
	$ 3200.00

Total cost..... ~~$3,238.00~~
$3240.00

$32.00/per foot

Govt. Part $2430.00

January 11, 1954.

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

z

Docket Copy
Surname:

Hopkins
Houk

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

600

JAN 18 1955

Mr. Paul Warren
P. O. Box 194
Sylva, North Carolina

Re: Docket No. DMEA-3595 - Mica
Paul Warren
Betty's Creek Mine No. 1
Jackson County, North Carolina

Dear Mr. Warren:

Reference is made to your application for exploration assistance on the subject property.

Paragraph 3 of your application (Form MF-103) states that you own the mine and all land surrounding the mine. Please send a legal description of your property giving metes and bounds description tied in to an established corner or other permanent land mark.

We shall be pleased to continue processing your application upon receipt of the legal description of your property.

Sincerely yours,

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

JHopkins:gad 1/18/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.C.S.

DOCKET FILE
Surname:

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

Hopkins
Houk
Hedges
Kiilsgaard
Selfridge
H. Johnson

JAN - 5 1955

Mr. Paul Warren
P. O. Box 194
Sylva, North Carolina

Re: Docket No. DMEA-3595 - Mica
Paul Warren
Betty's Creek Mine, No. 1
Jackson County, North Carolina

Dear Mr. Warren:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

JHopkins:ad 12/30/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region VII
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.C.H.

DOCKET FILE
Surname:

Hopkins
Houk
Selfridge
Hedges

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

JAN - 5 1955

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Subject: Docket No. DMEA-3595 - Mica
Paul Warren
Betty's Creek Mine No. 1
Jackson County, North Carolina

Dear Mr. Laurence:

Please review the subject application and arrange for a field examination if you deem it necessary.

Copies of memoranda from the Geological Survey, dated December 10, 1954, and from the Bureau of Mines, dated December 23, 1954, are enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Approved:

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

Thor H. Kiilsgaard
Member, Geological Survey (JHB)

Enclosures 4

JHopkins:ad 12/30/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.C.G.

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

December 23, 1954

Department of the Interior
Defense Minerals Exploration
REC'D
DEC 23 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3595 (mica)

Applicant: Paul Warren

Name and Location of Property: Betty's Creek Mine No. 1
Jackson County, North Carolina

Date Application Rec'd. by Ceram. & Fert. Mat. Br.: December 17, 1954

Comments:

1. From the limited information furnished, it is difficult to determine if an exploration program is justified or if the proposed plan is the logical plan.

2. Although the application lacks the necessary data, it appears an examination by the field team will prove more satisfactory than requesting the applicant to furnish additional information.

Recommendation:

It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

December 10, 1954

Re: DMEA-3595
Paul Warren
(Betty's Creek Mine)
Jackson Co., N. C.
$3,500 - Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant has proposed to drive a 100 foot tunnel; however, the objective or purpose of this work is not stated. For the most part, there is nothing in the application by which we can judge the merits of exploration on the property.

We have an unpublished manuscript in our files on the Betty's Creek mine, which was prepared by J. C. Olson, U.S.G.S., in June, 1944.

The old workings consist of three adits, and several small pits which explored several pegmatites in the area.

The country rock is hornblende gneiss which strikes north and dips steeply eastward. Several small pegmatites cut across the gneissic foliation. Most of the pegmatites are less than 4 feet thick, but they range from 2-10 feet in thickness. Mica occurs in "pockets" rather than in certain zones and is reported to be sporadically distributed. The mica is rum colored and is of fairly good quality.

Under future possibilities, the report states: "The long range outlook for this mine is not particularly promising, because the irregularity of the pegmatite bodies may indicate a lack of persistence in depth. Prospecting of other small pegmatites on the property is worthwhile because they yield a little mica and any one of them may thicken to form a profitable mica shoot."

I recommend this application be referred to the Field Team for their review and recommendations. Although the application lacks considerable essential data, I believe a field referral will prove to be more satisfactory than holding the application for more information before eventually referring it to the Field Team.

E. L. Newcomb

E. L. Newcomb

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

December 7, 1954
Subject: DMEA-3595
Re: Exploration Assistance
Betty's Creek Mine, No. 1

Mr. Paul Warren
P. O. Box 194
Sylva, N. C.

Dear Sir:

The receipt of your application dated December 7, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3595 and referred to the Non-Metallic Minerals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
DEC 6 1954

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

Not to be filled in by applicant

Docket No. 3595
Metal or Mineral MICA
Date Received
Estimated Cost $3,500
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Paul Warren
P.O. Box 194 Sylva, N.C.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Own mine and all land surrounding mine

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner
(b) Bettys Creek Mine, No. 1

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

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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

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

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

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

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

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

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

(*c*) The work will start within One days and be completed within 8 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other Supervise Labor

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated December 1, 1954

Paul Warren
(Applicant)

By Sylvia N C
Box 194

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

4. Physical Description
(a) 1941-42 - Mine produced No. 1 Ruby mica; which was sold to Colonial mica Co.
Accessibility of mine workings for examination purposes. Good
(c) Geologic features of the property - Mountainous
Type of deposit, Vein - Ruby mica
Kiffor Teague, of the Knoxville Tenn. Office has map of mine
(d) Access roads - Good
Distance to shipping, supply and Residence - 10 Miles
(e) The availibity of manpower, materials, supplies and water power Good.

Paul Warren
Sylva N.C.
Box 194

no Contracting

Work being done now ✓
Cut 3 ~~30~~ ft. long
5 ft. deep
Tunnel 6 ft. long
5 ft wide
7 ft deep

Work to be done
100 ft. Tunnel
@ $35.00 per. ft.

Paul Warren
Sylva NC
Box 194

Top Tunnel
100 ft of work Done
During 1941-1942

30 ft Lower

Tunnel
113 feet

work Being Done at this time
20 ft left 20 Left
of ~~old~~ old work 40 ft Lower
6 ft-5 ft wide 7 ft Deep

Tunnel Head

36 ft East

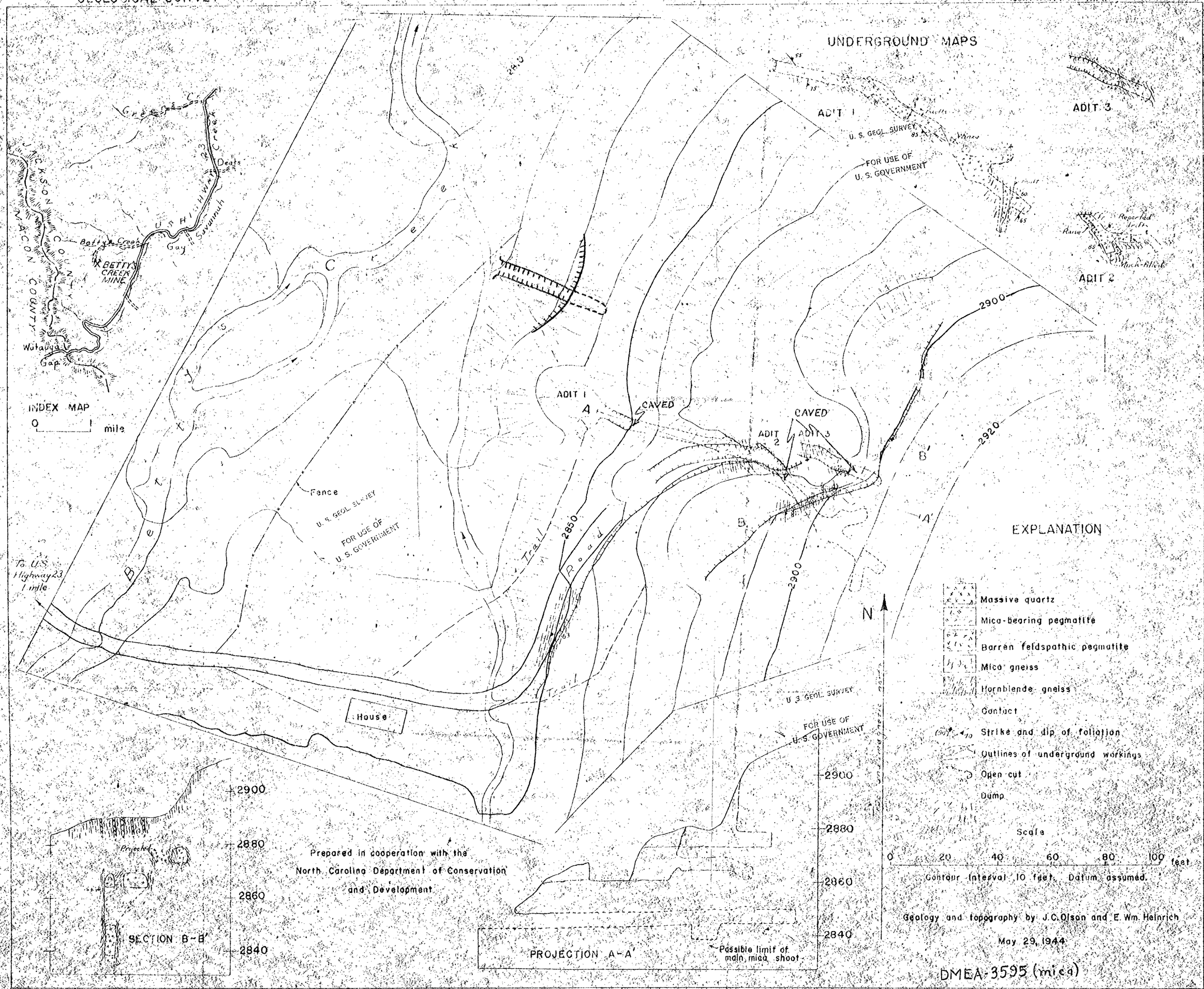
Paul Warren
Lyon N C
Oct 1942

OFFICIAL BUSINESS
U. S. Bureau of Mines
420 Custom House
555 Battery Street
San Francisco 11, California

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP



Prepared in cooperation with the
North Carolina Department of Conservation
and Development

BETTYS CREEK MICA MINE, JACKSON COUNTY, N. C.