DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2905

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 ASSISTANCE

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.

One copy to USBM., ~~to USGS.~~ and to Region VII.

Routing Slip

To:	Code 600, Room 4637	Date	2/26/53
To:	Fa/ther	Date	3/4/53
To:	Open Com	Date	3-13-53
To:	Open Com	Date	4-29-53
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CONTROLLED DOCUMENT

DMEA-2905
Mica 4-29-53
No. 209
Region VII

MICA INDUSTRIES, INC., FRANKLIN, NORTH CAROLINA. Lequire Mine, Macon County, North Carolina. 209
Letter to the applicant denying the application. 4-29-53

No. 200 DMEA-2905
Mica
4-7-53 Region VII

MICA INDUSTRIES, INC., FRANKLIN, NORTH CAROLINA. Lequire Mine, Macon County, North Carolina.
Field Report recommending denial. The report was referred to the Commodity Group.

DMEA-2905
Mica
Region VII

MICA INDUSTRIES, INC., FRANKLIN, NORTH CAROLINA. Lequire Mine, Macon County, North Carolina. 189
Letter to the Field requesting an examination and report, and enclosing copies of memorandum from the Bureau of Mines and the Geological Survey. Letter to the applicant. 3-13-53

April 24, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Closing Review of Docket No. [illegible]-2905 - Mica
Applicant: Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina
Property: Lequire Mine
Macon County, North Carolina
Amount applied for: $3,650.00

Closing Letter: Denial of application attached.

Docket Summary:

2/24/53 Application received. Proposes to deepen shaft 45 feet and drift 40 feet at a total cost of $3,650.00.
2/5/53 Memo from L.S.F.M. recommends field referral.
2/6/53 Memo from L.S.F.M. recommends field referral.
3/16/53 Referred to Region VII for on site examination.
4/2/53 Received field report recommending denial because of poor quality and small amount of mica in a small pegmatite.
4/7/53 Memo from D. R. Lawrence, L.S.F.M., recommending denial.
4/20/53 Memo from F. W. Dietrich, L.S.F.M., recommending denial.
4/23/53 Denial letter and Closing Review prepared.

Resume: In view of the unfavorable nature of the mica in the field report, the Nonmetallic Minerals Division of L.S.F.M. recommends denial of this application.

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:fls 4/24/53

Copy to: Admr. R. File
Docket File
Mr. Houk

March 31, 1953

Memorandum

To: Operating Committee, D M E A- Washington

From: Field Team, D M E A - Region 7

Subject: Field Examinations.

The following examinations were made by the Field Team and four copies each of the following are attached:

DMEA-2905, Laquire Mine (mica) North Carolina

DMEA-2906, Lenoir Mine (mica) North Carolina

The Field Team concurs in the denial of both the above applications.

Robert A. Laurence, Executive Officer
DMEA Field Team, Region 7

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

Wm.
cc;
Beck
Lynch
Laurence-2

4-8-53

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
APR 2 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2905, LEQUIRE MINE (Mica).
Macon County, N. C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey

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

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

March 31, 1953

DMEA CHIEF ... LIBRARY
4-8-53
(Date)

Field Examination Report
on
DMEA-2905, LEQUIRE MINE (Mica)
Applicant: Mica Industries, Inc., c/o Frank Siersma,
P.O. Box 336, Franklin, N. C.

Possibilities for the production of strategic mica from this deposit are poor. The pegmatite is small, lean in mica, and the mica is of general poor quality; therefore, the field examiners recommend that the application for exploration assistance be denied.

This deposit was examined on March 23, 1953. Norman Hashburn and Mr. Lequire were present on the visit which required 1.5 hours.

The Lequire Mine mica prospect is 3.5 airline miles S. 57° W. of Franklin, Macon County, North Carolina. It is accessible via U. S. Highway 23 south out of Franklin, thence west on Patton road to the mine. Access to the mine is good.

Work at this place consists of a 29-foot shaft with a 20-foot drift to the southeast on the pegmatite from the 22-foot level. These openings have exposed a pegmatite 2 ~~and~~ 2.5 feet thick which strikes N. 65° W. dipping 57° SW. It is enclosed conformably by weathered biotite gneiss. In the drift, which is flooded, the pegmatite contains a granular white quartz core, but where cut by the shaft it is mostly "burr."

Both ruby and green colored mica are present, with the latter more abundant. It is hard and generally flat, but about 75 percent of that recovered contains black or green spots. Some of the books are "locky." The mica is of poor quality.

March 31, 1953.

Kefton H. Teague, USGS

Lawrence M. Shirley, USBM

Wm. A. Beck, USBM

xx

6[illegible]0

MAR 16 1953

Mr. Frank Sierama, President
Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina

Subject: Docket No. DMEA-2905 - Mica
Lequire Mine
Macon County, North Carolina

Dear Mr. Sierama:

Your application for assistance in exploring your property has been reviewed by the Nonmetallic Minerals Division of the Defense Mineral 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 a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you may give the members of the field team in the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

SAFeitler:gad 3/13/53

Copy to: Admr. A. File
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

600

MAR 1 6 1953

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

Subject: Docket No. [illegible]-2905 - Mica
Mica Industries, Inc.
Lequire Mine
Macon County, North Carolina

Dear Mr. Laurence:

Please arrange for a field examination of the subject mine and submit a report with your recommendation on the proposed exploration assistance program.

Two copies each of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your convenience.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Enclosures: 4

SAFeitler:gad 3/13/53

Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

March 6, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2905, Mica, Laquire Mine, Macon County
North Carolina

No data are available in this office on subject property. It is located in a general area in which ruby mica is known to be the characteristic variety. On the basis of the applicant's description of present exposures, a field team investigation is recommended.

Signed

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 9 1953

IN REPLY REFER TO:

G-MD-CLM

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

MAR 5 - 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

Memorandum

REVIEW OF APPLICATION DMEA-2905 (mica).

To: L. G. Houk, Defense Minerals Exploration Administration.
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Mica Industries, Inc., a corporation, P. O. Box 336, Franklin, N.C.
Name of property: Lequire mine.
Location of property: 2½ miles southwest of Franklin in Macon County, North Carolina
Estimated cost of project: $2,650.00
Summary of applicant's proposal:
1) Continue present shaft (5' x 5', 30 feet deep) to a total depth of 75 feet and drive a drift of 40 feet into the main mica body. (see sketch on application)

Sources of information on applicant's property: None

Comments:
1) No past production.

RECOMMENDATION:
Field examination. Field team to check estimated cost, as there appears to be an error of $1000.

D. M. Larrabee

D. M. Larrabee

DMLarrabee:lmc
cc: Director's Reading, 4212
Branch Reading, 4212
DMEA-(3)
Norton Files-G-232
Larrabee-G-232

FILE COPY
SURNAME:

Feitler
Houk
Kyukel
Hedges
Sedredge
Fellmuth

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

APR 30 1953

Mr. Frank Sierema, President
Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina

Subject: Docket No. DMEA-2905 - Mica
Lequire Mine
Macon County

Dear Mr. Sierema:

Your application for aid for an exploration project and other data available to us in Washington concerning the subject mine 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, although noting a small amount of acceptable mica on your property, indicates to us that the probability of disclosing sizable concentrations of strategic ore 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 mine to our attention.

Sincerely yours,

C. O. Mittenderf (for)

Administrator

4-30-53

SAFeitler:fls 4/27/53

Copy to: Admr. R. File
Docket File
Field Team, Region VII
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232, GSA Bldg.
Mr. Houk

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

April 24, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Closing Review of Docket No. DMEA-2905 - Mica
Application: Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina
Property: Lequire Mine
Macon County, North Carolina
Amount applied for: $3,650.00

Closing letter: Denial of application attached.

Docket Summary:

2/24/53 Application received. Proposes to deepen shaft 45 feet and drift 40 feet at a total cost of $3,650.00.
3/5/53 Memo from U.S.G.S. recommends field referral.
3/6/53 Memo from U.S.B.M. recommends field referral.
3/16/53 Referred to Region VII for on site examination.
4/2/53 Received field report recommending denial because of poor quality and small amount of mica in a small pegmatite.
4/7/53 Memo from D. M. Larrabee, U.S.G.S., recommending denial.
4/20/53 Memo from W. F. Dietrich, U.S.B.M., recommending denial.
4/23/53 Denial letter and Closing Review prepared.

Resume: In view of the unfavorable nature of the data in the field report, the Nonmetallic Minerals Division of DMEA recommends denial of this application.

Stanley A. Feitler
Nonmetallic Minerals Division

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

600

April 24, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Closing Review of Docket No. DMEA-2905 - Mica
Application: Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina
Property: Lequire Mine
Macon County, North Carolina
Amount applied for: $3,650.00

Closing letter: Denial of application attached.

Docket Summary:

2/24/53 Application received. Proposes to deepen shaft 45 feet and drift 40 feet at a total cost of $3,650.00.
3/5/53 Memo from U.S.G.S. recommends field referral.
3/6/53 Memo from U.S.B.M. recommends field referral.
3/16/53 Referred to Region VII for on site examination.
4/2/53 Received field report recommending denial because of poor quality and small amount of mica in a small pegmatite.
4/7/53 Memo from D. M. Larrabee, U.S.G.S., recommending nial.
4/20/53 Memo from W. F. Dietrich, U.S.B.M., recommending denial.
4/23/53 Denial letter and Closing review prepared.

Resume: In view of the unfavorable nature of the data in the field report, the Nonmetallic Minerals Division of DMEA recommends denial of this application.

Stanley A. Feitler
Nonmetallic Minerals Division

FILE COPY
SURNAME:

Feitler
Houk

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

April 24, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Closing Review of Docket No. DMEA-2905 - Mica
Application: Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina
Property: Lequire Mine
Macon County, North Carolina
Amount applied for: $3,650.00

Closing letter: Denial of application attached.

Docket Summary:

2/24/53 Application received. Proposes to deepen shaft 45 feet and drift 40 feet at a total cost of $3,650.00.
3/5/53 Memo from U.S.G.S. recommends field referral.
3/6/53 Memo from U.S.B.M. recommends field referral.
3/16/53 Referred to Region VII for on site examination.
4/2/53 Received field report recommending denial because of poor quality and small amount of mica in a small pegmatite.
4/7/53 Memo from D. M. Larrabee, U.S.G.S., recommending nial.
4/20/53 Memo from W. F. Dietrich, U.S.B.M., recommending denial.
4/23/53 Denial letter and Closing Review prepared.

Resume: In view of the unfavorable nature of the data in the field report, the Nonmetallic Minerals Division of DMEA recommends denial of this application.

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:fls 4/24/53

Copy to: Admr. R. File
Docket File
Mr. Houk

Mr. Feitler

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

April 20, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 21 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2905, Mica, Lequire Mine, Macon County
North Carolina

I concur in the field team's recommendation to deny subject application on the basis that mica is of poor quality.

W F Dietrich

W. F. Dietrich

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

April 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2905, Mica, Lequire Mine, Macon County
North Carolina

I concur in the field team's recommendation to deny subject application on the basis that mica is of poor quality.

Signed

W. F. Dietrich

IN REPLY REFER TO:

Ins-Testing G-MD-CNM

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

April 7, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2905 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Mica Industries, Inc., c/o Frank Siersma, Franklin, N. C.
Name of property: Lequire mine.
Location of property: 3.5 miles airline S. 57° W. of Franklin, N.C.
Date of field team report: March 31, 1953.
Authorship of field team report: Teague, Beck, Shirley.
Field team's recommendation: Denial.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

D. M. Larrabee

IN REPLY REFER TO:
G-ND-CM

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

April 7, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2905 (mica)

To: L. G. Henk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Mica Industries, Inc., c/o Frank Sierema, Franklin, N. C.
Name of property: Lequire mine.
Location of property: 3.5 miles airline S. 57° W. of Franklin, N.C.
Date of field team report: March 31, 1953.
Authorship of field team report: Teague, Back, Shirley.
Field team's recommendation: Denial.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
G-4/7/53
cc: Director's read. 4212
Branch read. 4212
DMEA 3 ✓
Larrabee G-230

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
ROOM 13, POST OFFICE BLDG.
KNOXVILLE 2, TENN.

March 31, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
WASHINGTON
APR 2 1953

Memorandum

To: Operating Committee, D M E A- Washington

From: Field Team, D M E A - Region 7

Subject: Field Examinations.

The following examinations were made by the Field Team and four copies each of the following are attached:

DMEA-2905, Lequire Mine (mica) North Carolina

DMEA-2906, Lenoir Mine (mica) North Carolina

The Field Team concurs in the denial of both the above applications.

Robert A. Laurence

Robert A. Laurence, Executive Officer
DMEA Field Team, Region 7

Wm A Beck

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

zm.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
APR 2 1953

4/28/53

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2905, LEQUIRE MINE (Mica).
Macon County, N. C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey

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

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

March 31, 1953

Field Examination Report
on
DMEA-2905, LEQUIRE MINE (Mica)
Applicant: Mica Industries, Inc., c/o Frank Siersma,
P.O. Box 336, Franklin, N. C.

Possibilities for the production of strategic mica from this deposit are poor. The pegmatite is small, lean in mica, and the mica id of general poor quality; therefore, the field examiners recommend that the application for exploration assistance be denied.

This deposit was examined on March 23, 1953. Norman Mashburn and Mr. Lequire were present on the visit which required 1.5 hours.

The Lequire Mine mica prospect is 3.5 airline miles S. 57° W. of Franklin, Macon County, North Carolina. It is accessible via U. S. Highway 23 south out of Franklin, thence west on Patton road to the mine. Access to the mine is good.

Work at this place consists of a 29-foot shaft with a 20-foot drift to the southeast on the pegmatite from the 22-foot level. These openings have exposed a pegmatite 2 ~~and~~ 2.5 feet thick which strikes N. 65° W. dipping 57° SW. It is enclosed conformably by weathered biotite gneiss. In the drift, which is flooded, the pegmatite contains a granular white quartz core, but where cut by the shaft it is mostly "burr."

Both ruby and green colored mica are present, with the latter more abundant. It is hard and generally flat, but about 75 percent of that recovered contains black or green spots. Some of the books are "locky." The mica is of poor quality.

March 31, 1953.

Kefton H. Teague, USGS

Lawrence E. Shirley, USBM

Wm. A. Beck, USBM

zm

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 660

Feitler
Houk
Pinkel
Hogan
Selfridge

MAR 1 6 1953

Mr. Frank Sieroma, President
Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina

Subject: Docket No. DMEA-2935 - Mica
Lequire Mine
Macon County, North Carolina

Dear Mr. Sieroma:

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

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you may give the members of the field team in the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

S.F. 3/16/53

SAFeitler:gad 3/13/53

Copy to; Admr. R. File
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

Feitler
Houk
Selfridge

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

MAR 16 1953

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

Subject: Docket No. DMEA-2905 - Mica
Mica Industries, Inc.
Lequire Mine
Macon County, North Carolina

Dear Mr. Laurence:

Please arrange for a field examination of the subject mine and submit a report with your recommendation on the proposed exploration assistance program.

Two copies each of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your convenience.

Sincerely yours,

George C. Selfridge (JHB)
Chairman, Operating Committee

Approved:

W. E. Rodgers (JHB)
Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)
Member, Geological Survey

S.N.
3/16/53

Enclosures: 4

SAFeitler:gad 3/13/53

Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

March 6, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2905, Mica, Lequire Mine, Macon County
North Carolina

No data are available in this office on subject property. It is located in a general area in which ruby mica is known to be the characteristic variety. On the basis of the applicant's description of present exposures, a field team investigation is recommended.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 9 1953

IN REPLY REFER TO:

G-MD-CLM

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

MAR 5 - 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

Memorandum

REVIEW OF APPLICATION DMEA-2905 (mica).

To: L. G. Houk, Defense Minerals Exploration Administration.
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Mica Industries, Inc., a corporation, P. O. Box 336, Franklin, N.C.
Name of property: Lequire mine.
Location of property: 2½ miles southwest of Franklin in Macon County, North Carolina
Estimated cost of project: $2,650.00
Summary of applicant's proposal:
1) Continue present shaft (5' x 5', 30 feet deep) to a total depth of 75 feet and drive a drift of 40 feet into the main mica body. (see sketch on application)

Sources of information on applicant's property: None

Comments:
1) No past production.

RECOMMENDATION:
Field examination. Field team to check estimated cost, as there appears to be an error of $1000.

D. M. Larrabee

D. M. Larrabee

M[illegible] 93 [illegible]
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Form Approved
Mineral Survey Bureau No. 42-R1035.2.
RECEIVED
FEB 24 1953

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. dmea 2905
Metal or Mineral
Date Received 2-24-53
Estimated Cost
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: MICA INDUSTRIES INC. a corporation of the State of North Carolina
P. O. BOX 336
FRANKLIN, 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. Being all the land described in a deed from Thaniel N. Lineland, et al, to Ed. W. Lequire, et al, dated January 29, 1948, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book U-5, at page 359.

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

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

(*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

(*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 [illegible]n to explore STRATEGIC 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 ..... days and be completed within ..... 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.

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.).

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

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 FEBRUARY 20th, 1953

MICA INDUSTRIES INC.
(Applicant)

By Frank Sirsua President

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

MF-103 MICA INDUSTRIES INC. P.O. BOX 336 FRANKLIN, N.C. - MICA -

1. (c) OFFICERS: PRESIDENT: FRANK SIERSMA
VICE PRESIDENT: N. E. MASHBURN
SECRETARY-TREASURER: L. S. PENLAND

3. (d) Copy of lease to Norman Mashburn and Frank Siersma, with assignment to Mica Industries Inc., attached.

Owner's Consent to Lien (6 copies) attached.

4. (a) About six months ago Mashburn and Siersma sank a test shaft, 5'x5', to a depth of 30 feet and drifted 19 feet into the pegmatite. This is a well constructed and well timbered shaft (Cost approximately $800.00). The mine is readily accessible for examination purposes, being located about one quarter mile from county road at end of access road.

(b) No past production.

(c) Through the above partial exploration, a pegmatite composed of flint and quartz has been exposed. The small amount of block mica, recovered at the 30 foot depth, is hard, flat, ruby and presents great evidence to warrant total exploration.

(d) Property is about 2½ miles southwest of Franklin (shipping, supply and residence points) via State Highway 23 and Patton Road.

(e) Sufficient manpower, materials, etc., available for all purposes.

5. (b) Because of past work it is now known that the main mica body of this pegmatite can be reached by continuing present shaft to a total depth of 75 feet and drifting 40 feet into the vein proper.

(c) The work will be started immediately upon receipt of contract and can be completed within 30 working days (with one shift).

(d) Supervision of the work will be under N. E. Mashburn and L. S. Penland. Mashburn has mined and operated in this area for the past 20 years and is thoroughly familiar with its various pegmatites and know methods of mining and processing. Penland has spent more than 30 years in shaft and tunnel construction in this area, in many States and in several foreign countries. Their combined experience will permit completion of this work in the most satisfactory manner.

6. None of this work will be contracted to others. It is anticipated that the Field Team will approve a footage-basis contract, at a price not yet known.

It is estimated that the additional 45 feet of shafting will be at approximately $50.00 per foot, including timber, and the 40 feet of drifting - $35.00 per foot. Total contract should not exceed $2,650.00.

Any other contingencies will be met by applicant.

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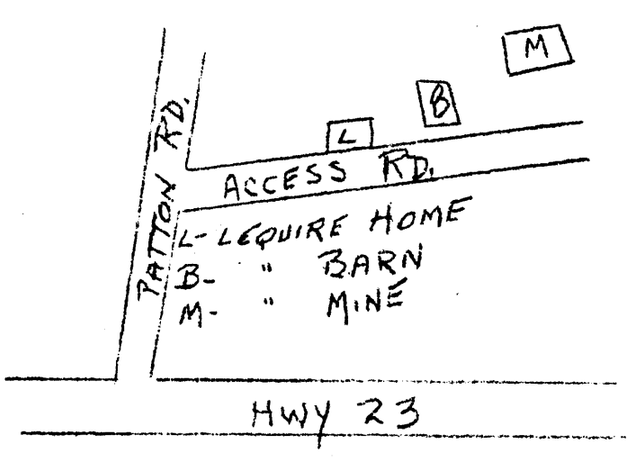

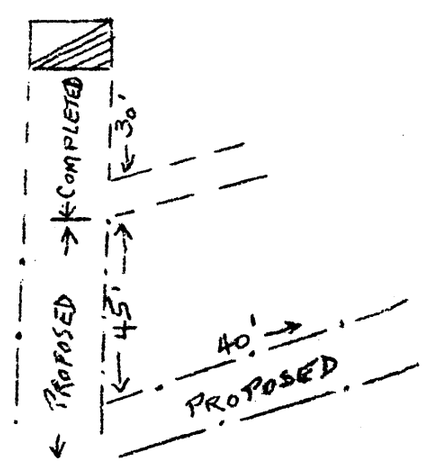

3. (d) COPY - LEASE & ASSIGNMENT UNDER WHICH APPLICANT CONTROLS PROPERTY.

THIS LEASE, made and entered into this the 10th day of June, 1952, by and between E. W. LEQUIRE and wife FANNIE LEQUIRE, hereinafter designated as Lessors, and FRANK SIERSMA and NORMAN MASHBURN, hereinafter designated as Lessees, all parties of Macon County, North Carolina.

WIRNESSETH: That for and in consideration of the mutual covenants and agreements to be done and performed by the Lessees, the Lessors have leased and demised, and by these presents do lease and demise unto the Lessees, their heirs and assigns, all minerals and mineral products, together will all mining rights and privileges, on the following described property in Macon County, N. C.:

All the land described in a deed from Thaniel N. Kirkland and wife, Bonnie Kirkland, to Ed. W. Lequire and wife, Fannie Lequire, dated January 29, 1948, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book U-5, at page 359.

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

The term of this lease shall be three (3) years from the date hereof, but the Lessees shall have the right and option to renew this lease for a period of three (3) additional years, upon the same terms and conditions, upon thirty (30) days notice to Lessors, duly given, prior to the expiration of the original term as aforesaid.

The Lessees agree to pay unto the Lessors, their heirs or assigns, the sum of twleve and one-half per cent (12½%) of the sale price of all block and sheet mica raised and removed from said property, and to pay the sum of One and 50/100 ($1.50) DOLLARS per ton for all scrap mica raised and removed therefrom.

In the event that other minerals, other than mica, shall be raised and removed from said property the royalty usually paid for such minerals in this area shall be paid by Lessees.

The Lessees agree that they will begin operations on said property not later than September 10, 1952, and will, thereafter, carry on mining operations thereon. It is specifically agreed that such operations shall be conducted by Lessees for not less than eight (8) months in each calendar year.

The Lessee agree that no mining operations of any kind whatsoever shall be conducted within two hundred (200) feet of any existing buildings on said land without the express permission of the Lessors.

The lessees agree that no timber shall be cut or removed from the property.

The Lessees shall have the right of ingress, and egress to and from said property for the purpose of conducting mining operations thereon and shall have the right to build such roads as may be necessary to said operations, said roads to be on such locations as shall be approved by the Lessors.

The Lessees agree to pay all royalties on or before the 20th day of each calendar month next following that month in which sales were made of minerals raised and removed from said property.

The Lessees agree to keep and maintain full, complete and accurate records of all sales of minerals raised and removed from the property, and to permit inspection of said records at any reasonable time by the Lessors, or their duly authorized representatives.

In the event that the Lessees, their successors and assigns, shall breach or fail to carry out any of the provisions of this lease, and said breach or failure shall continue after written notice of same shall have been given to said Lessees, then, and in such event, the Lessors shall have the right, upon their option to declare this lease terminated, upon ten (10) days notice to

3. (d) COPY - LEASE, ETC. (cont'd)

Lessees and thereafter Lessees, their heirs and assigns, shall have no further rights by virtue of this lease.

The Lessees agree that they will, by adequate fence or otherwise, protect livestock of the Lessors from injury, which might be incurred into shafts or other excavations opened on said premises.

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

s/ E. W. Lequire (SEAL)
s/ Fannie Lequire (SEAL)
s/ Frank Siersma (SEAL)
s/ Norman Mashburn (SEAL)

Letter, dated June 12, 1952, signed by E. W. Lequire and Fannie Lequire:

> I hereby give you express permission to conduct mining operation on the property leased to you and Frank Siersma at the point agreed upon by us, which point is within two hundred (200) feet of the chicken house located on said property.
>
> This permission is in accordance with paragraph four of the lease above referred to.

ASSIGNMENT:

We, FRANK SIERSMA and NORMAN MASHBURN, of Macon County, North Carolina, for and in consideration of the sum of One Dollar ($1.00) and other good and valuable considerations, do hereby sell, assign and transfer to MICA INDUSTRIES INC., all our right, title and interest in and to the following lease:

> BEING the lease executed to us on June 10, 1952, by E. W. Lequire, et al, which lease is attached hereto and made a part hereof.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this the 10th day of February, 1953.

s/ Frank Siersma (SEAL)
s/ Norman Mashburn (SEAL)

- - - - - - - -

February 26, 1953

Mr. Frank Siersma, President
Mica Industries, Inc.
P. O. Box 336
Franklin, North Carolina

DMEA-2905
Subje Exploration Assistance
Re: Lequire Mine

My dear Mr. Siersma:

The receipt of your application dated February 20, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2905 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-2905 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams,
Chief, Operations Control
and Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Form Approved.
Budget Bureau No. 42-R1035.2.
RECEIVED
FEB 24 1953

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. dmea 2905
Metal or Mineral
Date Received 2-24-53
Estimated Cost
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:

MICA INDUSTRIES INC. a corporation of the State
P. O. BOX 336 of North Carolina
FRANKLIN, 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 BEING all the land described in a deed from Thaniel N. Kirkland, et al, to Ed. W. Lequire, et al, dated January 29, 1948, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book U-5, at page 359.

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

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

(*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.

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(*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*) [redacted]e the mineral or minerals for which you wi[redacted] explore STRATEGIC 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 ..... days and be completed within ..... 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.

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.).

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

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 FEBRUARY 20th, 1953

MICA INDUSTRIES INC.
(Applicant)

By Frank Siersula President

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

MF-103 MICA INDUSTRIES INC. P.O. BOX 336 FRANKLIN, N.C. - MICA -

1. (c) OFFICERS: PRESIDENT: FRANK SIERSMA
VICE PRESIDENT: N. E. MASHBURN
SECRETARY-TREASURER: L. S. PENLAND

3. (d) Copy of lease to Norman Mashburn and Frank Siersma, with assignment to Mica Industries Inc., attached.

Owner's Consent to Lien (6 copies) attached.

4. (a) About six months ago Mashburn and Siersma sank a test shaft, 5'x5', to a depth of 30 feet and drifted 19 feet into the pegmatite. This is a well constructed and well timbered shaft (Cost approximately $800.00). The mine is readily accessible for examination purposes, being located about one quarter mile from county road at end of access road.

(b) No past production.

(c) Through the above partial exploration, a pegmatite composed of flint and quartz has been exposed. The small amount of block mica, recovered at the 30 foot depth, is hard, flat, ruby and presents great evidence to warrant total exploration.

(d) Property is about 2½ miles southwest of Franklin (shipping, supply and residence points) via State Highway 23 and Patton Road.

(e) Sufficient manpower, materials, etc., available for all purposes.

5. (b) Because of past work it is now known that the main mica body of this pegmatite can be reached by continuing present shaft to a total depth of 75 feet and drifting 40 feet into the vein proper.

(c) The work will be started immediately upon receipt of contract and can be completed within 30 working days (with one shift).

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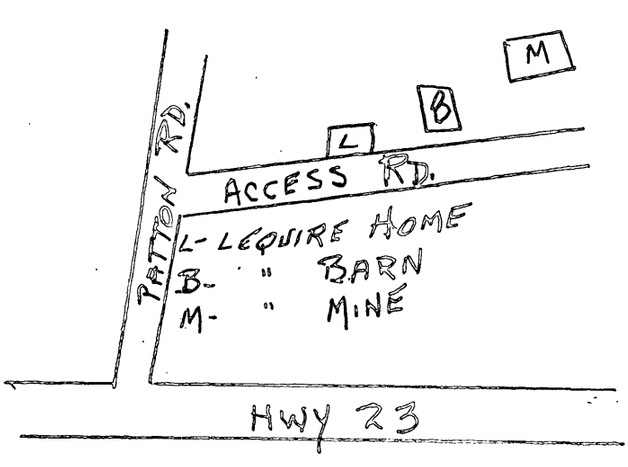

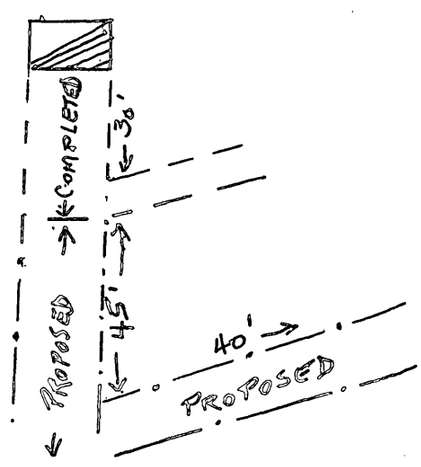

3. (d) COPY - LEASE & ASSIGNMENT UNDER WHICH APPLICANT CONTROLS PROPERTY.

THIS LEASE, made and entered into this the 10th day of June, 1952, by and between E. W. LEQUIRE and wife FANNIE LEQUIRE, hereinafter designated as Lessors, and FRANK SIERSMA and NORMAN MASHBURN, hereinafter designated as Lessees, all parties of Macon County, North Carolina.

WIRNESSETH: That for and in consideration of the mutual covenants and agreements to be done and performed by the Lessees, the Lessors have leased and demised, and by these presents do lease and demise unto the Lessees, their heirs and assigns, all minerals and mineral products, together will all mining rights and privileges, on the following described property in Macon County, N. C.:

All the land described in a deed from Thaniel N. Kirkland and wife, Bonnie Kirkland, to Ed. W. Lequire and wife, Fannie Lequire, dated January 29, 1948, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book U-5, at page 359.

THE TERMS AND CONDITIONS OF THIS LEASE ARE AS FOLLOWS:

The term of this lease shall be three (3) years from the date hereof, but the Lessees shall have the right and option to renew this lease for a period of three (3) additional years, upon the same terms and conditions, upon thirty (30) days notice to Lessors, duly given, prior to the expiration of the original term as aforesaid.

The Lessees agree to pay unto the Lessors, their heirs or assigns, the sum of twleve and one-half per cent (12½%) of the sale price of all block and sheet mica raised and removed from said property, and to pay the sum of One and 50/100 ($1.50) DOLLARS per ton for all scrap mica raised and removed therefrom.

In the event that other minerals, other than mica, shall be raised and removed from said property the royalty usually paid for such minerals in this area shall be paid by Lessees.

The Lessees agree that they will begin operations on said property not later than September 10, 1952, and will, thereafter, carry on mining operations thereon. It is specifically agreed that such operations shall be conducted by Lessees for not less than eight (8) months in each calendar year.

The Lessee agree that no mining operations of any kind whatsoever shall be conducted within two hundred (200) feet of any existing buildings on said land without the express permission of the Lessors.

The lessees agree that no timber shall be cut or removed from the property.

The Lessees shall have the right of ingress, and egress to and from said property for the purpose of conducting mining operations thereon and shall have the right to build such roads as may be necessary to said operations, said roads to be on such locations as shall be approved by the Lessors.

The Lessees agree to pay all royalties on or before the 20th day of each calendar month next following that month in which sales were made of minerals raised and removed from said property.

The Lessees agree to keep and maintain full, complete and accurate records of all sales of minerals raised and removed from the property, and to permit inspection of said records at any reasonable time by the Lessors, or their duly authorized representatives.

In the event that the Lessees, their successors and assigns, shall breach or fail to carry out any of the provisions of this lease, and said breach or failure shall continue after written notice of same shall have been given to said Lessees, then, and in such event, the Lessors shall have the right, upon their option to declare this lease terminated, upon ten (10) days notice to

3. (d) COPY - LEASE, ETC. (cont'd)

Lessees and thereafter Lessees, their heirs and assigns, shall have no further rights by virtue of this lease.

The Lessees agree that they will, by adequate fence or otherwise, protect livestock of the Lessors from injury, which might be incurred into shafts or other excavations opened on said premises.

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

s/ E. W. Lequire (SEAL)
s/ Fannie Lequire (SEAL)
s/ Frank Siersma (SEAL)
s/ Norman Mashburn (SEAL)

Letter, dated June 12, 1952, signed by E. W. Lequire and Fannie Lequire:

> I hereby give you express permission to conduct mining operation on the property leased to you and Frank Siersma at the point agreed upon by us, which point is within two hundred (200) feet of the chicken house located on said property.
>
> This permission is in accordance with paragraph four of the lease above referred to.

ASSIGNMENT:

We, FRANK SIERSMA and NORMAN MASHBURN, of Macon County, North Carolina, for and in consideration of the sum of One Dollar ($1.00) and other good and valuable considerations, do hereby sell, assign and transfer to MICA INDUSTRIES INC., all our right, title and interest in and to the following lease:

> BEING the lease executed to us on June 10, 1952, by E. W. Lequire, et al, which lease is attached hereto and made a part hereof.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this the 10th day of February, 1953.

s/ Frank Siersma (SEAL)
s/ Norman Mashburn (SEAL)

- - - - - - - -

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Macon, described as follows:1/

All the land described in a deed from Thaniel N. Kirkland and wife, Bonnie Kirkland, to Ed. W. Lequire and wife, Fannie Lequire, dated January 29, 1948, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book U-5, at page 359.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Norman D. Mashburn and Frank Gierano
GS - Micro Industries Inc.

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 7000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 23rd day of June, 1958.

E W Lequire [Seal]
Fannie Lequire [Seal]
[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

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4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

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(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

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d/b/a Atlas Exploration Co.

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(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Macon, described as follows:1/

All the land described in a deed from Thaniel N. Kirkland and wife, Bonnie Kirkland, to Ed. W. Lequire and wife, Fannie Lequire, dated January 29, 1948, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book U-5, at page 359.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Norman E. Mashburn and Frank Siersma
GM - Mica Industries Inc.

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 7000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 23rd day of June, 1952.

E W Lequire [Seal]

Fannie Lequire [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.