DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2555

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip

Copies to USBM, USGS, and Region VIII.

To: Code 600, Rm. 4637 Date 5-28-52

To: _____ Date _____

To: To be withdrawn ~~Date~~

To: Off. Com. Date 7-9-52

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME:

Robertson
Houk
Thayer
Hedges
Stevenson

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

600

JUL 10 1952

Mr. J. W. Nance
Bradford
Virginia

Subject: Docket No. DMEA-2555 - Mica
Strickland-Cramer Mine
Middlesex County, Connecticut

Dear Mr. Nance:

We acknowledge receipt of your letter of July 1, 1952, requesting withdrawal of the subject application.

Please be advised that your application for exploration assistance DMEA-2555 is now withdrawn and the following documents pertaining to your leases are returned to you herewith.

1 Lease dated May 21, 1952. Signed by Consolidated Feldspar Corporation, Lessor and by J. W. Nance, Lessee.

2 Transfers of Lease (duplicates) signed by Consolidated Feldspar Corporation and J. W. Nance.

Sincerely yours,

C. O. Mittendorf (fw) cc 7/10/52

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures - 3

JTRobertson:mp 7/7/52
cc: Docket File
Adm. Reading File
Field Team, Region VIII
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk
Operating Committee

Bedford, Virginia.
July 1, 1952.

Mr. Lawrence G. Houk,
D. M. E. A.,
Room 4637,
Interior Building,
Washington, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
(DMEA)
JUL 2 - 1952

Dear Sir:

In re: DMEA-2555
Exploration Loan (Strickland Mine)

I wish to withdraw my application dated May 27, 1952 for a Loan under the Defense Production Act of 1950.

In view of my request to withdraw this application I will appreciate you fowarding me all papers, pertaining to this Loan, now held in your files.

Yours very truly,

J. W. Nance

J. W. Nance,

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

July 7, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

Subject: Docket No. DMEA-2555 - Mica
Strickland-Cramer Mine
Middlesex County, Connecticut
Re: Applicant's voluntary withdrawal of application

The applicant had proposed an exploration project in the amount of $28,225.

The mine, now filled with water, is an old producer of mica. The limits of the productive pegmatite are already defined by prior diamond drilling. The project was therefore, one of rehabilitation rather than exploration. The Operator later decided to withdraw the application, per his letter of withdrawal, a copy of which is attached hereto.

It is recommended that the application, DMEA-2555 be now withdrawn as requested by the applicant.

Jasper T. Robertson

Jasper T. Robertson
Non-Metallic Minerals Division

Attachment

FILE COPY
SURNAME:

Robertson
Houk

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

July 7, 1952

Memorandum

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From: Non-Metallic Minerals Division, DMEA

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SIGNED cc 7/10

Jasper T. Robertson
Non-Metallic Minerals Division

Attachment
JTRobertson:mp
CC: Adm. Reading File
Docket File
Mr. Houk

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

July 7, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

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Jasper T. Robertson
Non-Metallic Minerals Division

Attachment

C O P Y

Bedford , Virginia
July 1, 1952

Mr. Lawrence G. Houk
D.N,E.A.
Room 4637
Interior Building
Washington, D. C.

Dear Sir:

In re: DMEA-2555
Exploration Loan (Stricland Mine)

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In view of my request to withdraw this application I will appreciate you forwarding me all papers, pertaining to this Loan, now held in your files.

Yours very truly,

J. W. Nance (sgd)

FILE COPY
SURNAME:

Robertson

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

June 23, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

Subject: Docket No. DMEA-2555 - Mica
Strickland-Cramer Mica Deposit, Portland, Connecticut

Re: A recommendation for a denial of application because proposed work is rehabilitation rather than exploration.

The Strickland Mine and the Cramer Mine are now filled with water and to appraise the present situation it is necessary to consult former reports and maps. A very comprehensive report is a preliminary issue of a War Minerals Report, Project 2502, Strickland-Cramer Mica Deposit, Portland, Connecticut by Bureau of Mines, June 1945. This report and accompanying maps are the best sources of information respecting the mines and it is from them that an appraisal of this project is made.

The following excerpt from the report outlines a brief history of the property:

History

"The Strickland Mine was opened as a feldspar quarry before 1900. Since 1907 it has been operated under lease by the present operators. From 1907 to 1930 only feldspar was recovered; from 1930 to 1937 mica was recovered as well as feldspar. The mine was inoperative from 1937 to 1942, but was unwatered in October 1942 when mica mining was resumed because of the premium prices offered for strategic mica.

"The Cramer Mine was opened in 1933 by the present owners and mining has continued since then.

"In terms of strategic sheet mica produced in New England during 1942 and 1943, the Strickland-Cramer deposit ranked second only to the Big Mine deposit in New Hampshire. The combined output of mine-run mica amounted to 333 tons in 1943 and 396 in 1944. From the mine product 38,310 pounds of sheet and 89,270 pounds of punch were recovered during these two years."

Both mines are now idle and as they are filled with water there seems little point in requesting a field examination. The commodity specialist of both Geological Survey and Bureau of Mines, however, in their memoranda, suggest a field team investigation.

The War Minerals Report is quite complete and it would appear that it is sufficiently so to enable an appraisal of the case at this time and without further field examination. The drawings accompanying the report, "Plan" and "Longitudinal Section", shown in Figure 4, are very enlightening and clearly show the salient information concerning mine workings, old stopes, old pillars, remaining blocks of ore and other pertinent information. The results of six core-drill holes are also disclosed.

The drill holes tend to prove that the bottom of the main mica-bearing pegmatite has been reached and that the mineable ore bottoms close to the present lower workings. The ore deposit is, therefore, bottomed and worked out except for the last remnants of ore at the lower edge of the lens-like pegmatite and the old pillars, which can be robbed to some extent. All drill holes except Hole No. 1 show a cutting off of the mica-bearing deposit. The lower limit of the mine is pretty well established and additional exploration by shafts or drifts seems unnecessary.

The ore reserves in the mine are reported to be as follows:

Block	Av. Dip	Inclined Area Square Feet	Thickness Feet	Peg. Tons	Mine-run Mica, tons
I	50°	3,430	7	2,000	200
II	41°	3,260	7	1,900	190
III	72°	23,300	7	13,600	1,360
					1,750

The present ore reserves may justify a Rehabilitation Loan through DMPA but as this question is beyond the scope of an exploration application it is not discussed here except to say, that we are informed such loan would require six months to process.

We are also informed that the mica purchase program does not make advances against production.

A recommendation is made that the application for exploration assistance be denied. As an alternative the case may be submitted to the field team for their suggestions; it is possible that they may have some suggestion other than a denial.

Jasper T. Robertson
Non-Metallic Minerals Division

JTRobertson:gad
Copy to: Admin. Reading File
Docket File
Mr. Houk

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

June 23, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

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Jasper T. Robertson

Jasper T. Robertson
Non-Metallic Minerals Division

IN REPLY REFER TO:

G-MD-PLW

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

June 9, 1952

Memorandum

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.

From: P. L. Weis, U. S. Geological Survey.

Subject: Mica reserves in the Strickland-Cramer Pegmatite, Connecticut. DMEA 2555

The figures that you requested are listed below. They are taken from Cameron's confidential report on the Strickland-Cramer property, and represent the most up-to-date information we have on reserves. The data on which they are based was gathered before September 4, 1943. The property was operated for at least part of the year 1944, so the figures are obsolete by the amount mined since 1943.

	indicated	inferred
Strickland (ore)	7,595 tons	12,758 tons
Strickland (Recoverable mine run Mica)	690 tons	469 tons
Cramer (Ore)	13,940 tons	22,573 tons
Cramer (Recoverable mine run Mica)	1,266 tons	2,050 tons
Between the two mines (ore)		12,630 tons
Between the two mines (Recoverable Mica)		1,148 tons

Total recoverable mine-run mica:

Indicated	1,956 tons
Inferred	3,657 tons
	5,613 tons

Paul L. Weis

Paul L. Weis

DEPARTMENT OF THE INTERIOR
Geological Survey
RECEIVED
JUN 10 1952

IN REPLY REFER TO:

G-MD-PLW

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

June 4, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2555 (Mica).

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.
From: P. L. Weis, U. S. Geological Survey.
Applicant: J. W. Nance.
Name of Property: Strickland-Cramer pegmatite (Strickland and Cramer mines).
Location: Middlesex County, Connecticut.
Estimated cost of project: $28,225.00.
Summary of applicant's proposal:

(1) Dewater quarry.
(2) Clear 30 to 35 feet of muck from a 12 by 12 foot area of quarry bottom, cribbing it as it is cleared.
(3) From bottom of cribbed area (at quarry bottom) extend a 5 by 7 foot shaft down 100 feet to a total depth of 215 feet below the surface.
(4) Drive 200 feet of drift along pegmatite from bottom of shaft.

Sources of information on applicant's property:

Extensive file of unpublished information in U. S. Geological Survey commodity files. U. S. Bureau of Mines diamond drilled this deposit. The most pertinent report is E. N. Cameron's confidential estimate of reserves and recommendations for exploration and development work, including anticipated cost (U. S. Geological Survey, 1944). Copies of all necessary maps are being sent to you herewith. Copies of all reports are available to the field team.

See memo from P. L. Weis, Survey 6/9/52 giving reserve figures.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 5 1952

Comments:

(1) The diamond drilling and geologic work indicated that this pegmatite has larger resources of strategic mica. The deposit warrants exploration by sinking and drifting, as proposed by the applicant, in order to show that it can be profitably mined at present prices.

(2) The Cramer and Strickland mines are in the same pegmatites. Exploration of either property can benefit the other. Branch Lawson of the Consolidated Feldspar Corporation has stated orally that he would be unable to obtain a subordination agreement from the owner of the Cramer mine, but he said that his company would guarantee royalty payments.

RECOMMENDATION:

Refer to field team for the following purposes:

(1) Consideration of feasibility of exploration.

(2) Negotiations with applicant to plan an exploration program in detail.

Paul L. Weis

Paul L. Weis

Enclosures

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

June 13, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: W. F. Dietrich, Chief
Ceramic and Fertilizer Materials Branch

Subject: DMEA-2555, J. W. Nance, Bedford, Virginia (Mica)

On the basis of the applicant's description of past operations and present exposures, a field team investigation is recommended. During previous activity, the Colonial Mica Corporation purchased sheet mica which had been produced from this mine.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 16 1952

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA

FOR USE UNDER THE

DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2555

Date received 5-27-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1952

J. W. Nance
Bedford
Virginia

Name and address of applicant

Date May 27, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

None

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

Not a corporation

For Corporate Applicants

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

*Indicate period covered.

10. Production:

Unanswerable--Not now in production

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

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Not now in production.

12. Ore or Mineral Reserves:

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

MF--100 Defense Minerals Exploration Administration

J. W. Nance
Bedford
Virginia

1. (a) Mica (strategic), Beryl

2. Strickland Mine

(a)
(b)
(c)
(d) Large open pit quarry--250'x60'x80'

4. (a) The property is not now in operation.
(b) Lessee

5. This property was worked for mica for 3 years--operations were concluded in 1944 at the termination of the Colonial Mica Purchase Program.

6. Operator has been in the mining business for 20 years. Operator supervised the work in this mine during the entire Colonial Mica program. Operator has been owner-operator of mines which have produced mica, feldspar, building stone and manganese for the past 20 years.

7. (a) The Strickland Mine was worked for years as a feldspar operation. On and during this operation the mica vein was exposed along the right hand side wall looking east. At the start of the Colonial Mica program in 1942 the applicant mined this mica for the Eureka Flint & Spar Co. This mica was all purchased by Colonial Mica Co.
(b) The Cramer mine on the adjoining property was a large producer of mica for ten years.
(c) See Bureau of Mines survey and reports.

8. See Form MF-100

9. See Form MF-100

10. See Form MF-100

J. W. Nemoe
Bedford
Virginia

11. See Form MF-100.

12. Mine worked out to 100' level--Proposed exploration will be below this level.

13. Two miles to Portland, Conn. railroad station--1500' of private road is to be rebuilt to gain all-weather access to mine.

14. Ample.

15. Conn. Power Co. has lines within 400 yards of mine. Power was formerly connected to mine.

16. None.

17. None.

18. No.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

J. W. Nance
(Name of company)

By _____
(Signature of authorized official)

May 27, 1952
(Date)

_____
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2555
Metal or Mineral
Date Received 5-27-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1952

J. W. Nance
Bedford
Virginia

Name and address of applicant

Date May 27, 1952

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

DMA Docket Number (if available)

INSTRUCTIONS

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

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

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

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

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

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

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

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

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

3. (*a*) Describe fully the proposed work and give the total cost of the project.

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

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

J. W. Nance
(Name of company)

By _____
(Signature of authorized official)

May 27, 1952
(Date)

_____
(Title)

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

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

J. W. Nance
Bedford
Virginia

1. (a) See Leases attached as Exhibit A.

   (b) See Exhibit A.

   (c) Entire area leased is subject to exploration.

   NOTE: Subordination attached to lease at Exhibit A on Consolidated Feldspar Corporation property. Cramer property cannot be subordinated.

J. W. Nance
Bedford
Virginia

2. (a) Strategic grade sheet mica of stockpile quality, run to ruby in color.

(b) Pegmatite was worked during World War II, and has been amply mapped by Government. Maps on file in USGS and Bureau of Mines.

J. W. Wence
Bedford
Virginia

3. (a) It is proposed to sink a shaft angling along the hanging wall of approximately 5x7 feet. This shaft will be sunk after an old quarry 80 feet deep is dewatered and approximately 30 - 35 feet of muck is removed from an area approximately 12x12 feet. The opening through the muck will be cribbed with 6x6 oak timbers or other suitable and available timbers.

The 5x7 shaft along the hanging will be lowered 100 feet below the muck area which is 110 - 115 feet below the surface. The shaft, when completed, will be 215 feet below the surface.

From this shaft, at such points that mica-bearing pegmatite is contacted, there will be driven 200 feet of drift so as to afford exploration access in the areas that have been previously core drilled by the Government.

(b) It is anticipated that this exploration project can be completed within six months after the contract is approved and let.

MF-103 Defense Minerals Exploration Administration

J. W. Manse
Bedford
Virginia

4. See maps now on file in SSGS. It is proposed to contact pegmatite at its point of jointure with abandoned muck area 110 feet below the surface, and to lower a shaft down and following the hanging wall.

J. W. Nance
Bedford
Virginia

5. None

J. W. Nance
Bedford
Virginia

6. One shed and shelter for workmen, tool storage, etc. 15'x30' $1,500

J. W. Nance
Bedford
Virginia

7. (a) Rental

1	210 cu. ft. air compressor at 160 per mo.	960
1	Gas Water pump 10 hp, 440 V	240
1	jackleg 6 mo. at $40 per mo.	240
1	jackhamer 6 mo. at $20 per mo.	120
1	Truck $40 per wk.	1040
1	Gas sump pump at $10 per mo.	60
1	Gasoline Hoist double drum $150	900
		3,560

(b) Pipe

300 ft. 3 inch at $1.00 per foot	300
600 ft. 1 " " 40¢ " "	240
50 ft. air hose	50
Safety boots & helmets	100
	690

(c) None

J. W. Nance
Bedford
Virginia

8.

LABOR	WEEK	26 WK. PERIOD
4 Muckers & timbermen at 74 ea.	296	7,696
1 hoist opr. at 1.50 per hr. 60 hrs. at 90	90	2,340
Blacksmith & hoist helper at 120 per hr. 60 hr. at 74	74	1,924
1 Truck driver 1.50 per hr. 60 hrs. at 90	90	2,340
FOREMAN		
Full time Supervisor at 100	100	2,600
		16,900

J. W. Hance
Bedford
Virginia

9.

Drill steel & bits	175
Dynamite	2000
Fuel	1300
Timbering 12x12 area 40 feet deep	2100
	5,575

J. W. Nance
Bedford
Virginia

10. (a) 10% of cost.

(b) yes.

J. W. Nance
Bedford
Virginia

11. Even though the mine is located on two adjoining pieces of property, the operator-applicant guarantees to the Government that 7% of the net mica sales will be paid to the Government irrespective from which property the mica sold is obtained.

Mine located two miles from Portland, Conn.

EXPLORATION

Subject: DMEA-2555
Re: Exploration Loan
Strickland Mine
May 28, 1952

Mr. J. W. Nance
Bedford
Viriginia

My dear Mr. Nance:

This will acknowledge receipt of your application dated May 27, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2555 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-2555 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2555
Metal or Mineral
Date Received 5-27-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 27 1952

J. W. Nance
Bedford
Virginia

Name and address of applicant

Date May 27, 1952

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

DMA Docket Number (if available)

INSTRUCTIONS

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

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

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

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

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

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

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

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

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

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

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

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

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   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

J. W. Dance
(Name of company)

By
(Signature of authorized official)

May 27, 1952
(Date)

(Title)

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

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

MF-103

Defense Minerals Exploration Administration

J. W. Nance
Bedford
Virginia

1. (a) See Leases attached as Exhibit A.

   (b) See Exhibit A.

   (c) Entire area leased is subject to exploration.

   NOTE: Subordination attached to lease at Exhibit A on Consolidated Feldspar Corporation property. Cramer property cannot be subordinated.

MF-103 Defense Minerals Exploration Administration

J. W. Nance
Bedford
Virginia

2. (a) Strategic grade sheet mica of stockpile quality, rum to ruby in color.

(b) Pegmatite was worked during World War II, and has been amply maped by Government. Maps on file in USGS and Bureau of Mines.

J. W. Nance
Bedford
Virginia

3. (a) It is proposed to sink a shaft angling along the hanging wall of approximately 5x7 feet. This shaft will be sunk after an old quarry 80 feet deep is dewatered and approximately 30 - 35 feet of muck is removed from an area approximately 12x12 feet. The opening through the muck will be cribbed with 6x6 oak timbers or other suitable and available timbers.

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From this shaft, at such points that mica-bearing pegmatite is contacted, there will be driven 200 feet of drift so as to afford exploration access in the areas that have been previously core drilled by the Government.

(b) It is anticipated that this exploration project can be completed within six months after the contract is approved and let.

MF-103 Defense Minerals Exploration Administration

J. W. Nance
Bedford
Virginia

4. See maps now on file in USGS. It is proposed to contact pegmatite at its point of jointure with abandoned muck area 110 feet below the surface, and to lower a shaft down and following the hanging wall.

J. W. Nance
Bedford
Virginia

5. None

J. W. Nance
Bedford
Virginia

6. One shed and shelter for workmen, tool storage, etc. 15'x30' $1,500

J. W. Nance
Bedford
Virginia

7. (a) Rental

1	210 cu. ft. air compressor at 160 per mo.	960
1	Gas Water pump 10 hp, 440 V	240
1	jackleg 6 mo. at $40 per mo.	240
1	jackhamer 6 mo. at $20 per mo.	120
1	Truck $40 per wk.	1040
1	Gas sump pump at $10 per mo.	60
1	Gasoline Hoist double drum $150	900
		3,560

(b) Pipe

300 ft. 3 inch at $1.00 per foot	300
600 ft. 1 " " 40¢ " "	240
50 ft. air hose	50
Safety boots & helmets	100
	690

(c) None

J. W. Nance
Bedford
Virginia

8.

LABOR	WEEK	26 WK. PERIOD
4 Muckers & timbermen at 74 ea.	296	7,696
1 hoist opr. at 1.50 per hr. 60 hrs. at 90	90	2,340
Blacksmith & hoist helper at 120 per hr. 60 hr. at 74	74	1,924
1 Truck driver 1.50 per hr. 60 hrs. at 90	90	2,340
FOREMAN		
Full time Supervisor at 100	100	2,600
		16,900

MF-103

Defense Minerals Exploration Administration

J. W. Nanee
Bedford
Virginia

9.

Drill steel & bits	175
Dynamite	2000
Fuel	1300
Timbering 12x12 area 40 feet deep	2100
	5,575

MF-103

Defense Minerals Exploration Administration

J. W. Nance
Bedford
Virginia

10. (a) 10% of cost.

(b) yes.

J. W. Nance
Bedford
Virginia

11. Even though the mine is located on two adjoining pieces of property, the operator-applicant guarantees to the Government that 5% of the net mica sales will be paid to the Government irrespective from which property the mica sold is obtained.

Mine located two miles from Portland, Conn.

Form MF-100
(May 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2555

Date received 5-27-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1952

J. W. Nance
Bedford
Virginia

Name and address of applicant

Date May 27, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

None

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

Not a corporation

For Corporate Applicants

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

*Indicate period covered.

10. Production:

Not now in production

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

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Not now in production

12. Ore or Mineral Reserves:

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

MF--100

Defense Minerals Exploration Administration

J. W. Nance
Bedford
Virginia

1. (a) Mica (strategic), Beryl

2. Strickland Mine

(a)
(b)
(c)
(d) Large open pit quarry--250'x80'x80'

4. (a) The property is not now in operation.
(b) Lessee

5. This property was worked for mica for 3 years--operations were concluded in 1944 at the termination of the Colonial Mica Purchase Program.

6. Operator has been in the mining business for 20 years. Operator supervised the work in this mine during the entire Colonial Mica program. Operator has been owner-operator of mines which have produced mica, feldspar, building stone and manganese for the past 20 years.

7. (a) The Strickland Mine was worked for years as a feldspar operation. On and during this operation the mica vein was exposed along the right hand side wall looking east. At the start of the Colonial Mica program in 1942 the applicant mined this mica for the Eureka Flint & Spar Co. This mica was all purchased by Colonial Mica Co.
(b) The Cramer mine on the adjoining property was a large producer of mica for ten years.
(c) See Bureau of Mines survey and reports.

8. See Form MF-100

9. See Form MF-100

10. See Form MF-100

J. W. Nance
Bedford
Virginia

11. See Form MF-100.

12. Mica worked out to 100' level--Proposed exploration will be below this level.

13. Two miles to Portland, Conn. railroad station--1500' of private road is to be rebuilt to gain all-weather access to mine.

14. Ample.

15. Conn. Power Co. has lines within 400 yards of mine. Power was formerly connected to mine.

16. None.

17. None.

18. No.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

J. W. Nance
(Name of company)

By _____
(Signature of authorized official)

May 27, 1952
(Date)

_____
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

KNOW ALL MEN BY THESE PRESENTS,

That I Frederick E. Strickland of the Town of Portland, County of Middlesex and State of Connecticut in consideration of the sum of Two Thousand Five Hundred ($2,500.) Dollars received to my full satisfaction of Consolidated Feldspar Corporation, a Delaware Corporation having its principal office and place of business in Trenton, New Jersey, do give, grant, bargain and lease to the said Consolidated Feldspar Corporation, its successors and assigns, for the term of ninety-nine (99) years from the date of this instrument all mineral rights which include the right of mining and removing minerals of any and all kinds from the property hereinafter described together with the privilege of using the surface of the hereinafter described land for the purpose of dumping materials incidental to the said mining operations and together with the right to use water taken from the said land and such timber as may be needed for such mining operations on said land for the term of ninety-nine years. It is understood and made a part of this grant that the Consolidated Feldspar Corporation, its successors and assigns will not be responsible for damage to the land resulting from the mining operations.

It is a condition of this grant that any increase of taxes caused by reason of the mining operations thereon by the grantee shall be paid for by the grantee, its successors or assigns.

The property which is subject to this grant is situated in the Town of Portland, County of Middlesex and State of Connecticut and consists of two pieces, the first piece being known as the Collins Hill Lot containing forty (40) acres more or less and being bounded north by the old highway; east by land now or formerly of Edward Clark; south by land now or formerly of Alexander Hale and west by land now or formerly of John Penfield being the same and all the same property conveyed to the said Frederick E. Strickland by deed of Henry Kilby, Administrator, dated November 4, 1898 and recorded in the Portland Land Records vol. 17, page 438.

Second piece contains four (4) acres more or less and is the same property purchased by the said Frederick E. Strickland from Warner Gildersleeve being bounded north by persons unknown; west by land now or formerly of Charles Lawson and one Peterson; south by land now or formerly of Oliver Gildersleeve and heirs of Ferdinand Gildersleeve and east by land now or formerly of Charles Creamer and by other land of Frederick E. Strickland.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of August in the year of our Lord nineteen hundred and fifty-one

Signed, Sealed and Delivered in the presence of

(S.) Barbara H. Hutt

(S) Frederick E.Strickland (L.S.)

(S.) John A. Markham

STATE OF CONNECTICUT)
) ss. Glastonbury
COUNTY OF HARTFORD)

August 7th A.D., 1951

Personally Appeared Frederick E. Strickland Signer and Sealer of the foregoing Instrument, and acknowledged the same to be his free act and deed before me.

(S.) John A. Markham

(S.) Commissioner of Superior Court

KNOW ALL MEN BY THESE PRESENTS,

That I Frederick E. Strickland of the Town of Portland, County of Middlesex and State of Connecticut in consideration of the sum of Two Thousand Five Hundred ($2,500.) Dollars received to my full satisfaction of Consolidated Feldspar Corporation, a Delaware Corporation having its principal office and place of business in Trenton, New Jersey, do give, grant, bargain and lease to the said Consolidated Feldspar Corporation, its successors and assigns, for the term of ninety-nine (99) years from the date of this instrument all mineral rights which include the right of mining and removing minerals of any and all kinds from the property hereinafter described together with the privilege of using the surface of the hereinafter described land for the purpose of dumping materials incidental to the said mining operations and together with the right to use water taken from the said land and such timber as may be needed for such mining operations on said land for the term of ninety-nine years. It is understood and made a part of this grant that the Consolidated Feldspar Corporation, its successors and assigns will not be responsible for damage to the land resulting from the mining operations.

It is a condition of this grant that any increase of taxes caused by reason of the mining operations thereon by the grantee shall be paid for by the grantee, its successors or assigns.

The property which is subject to this grant is situated in the Town of Portland, County of Middlesex and State of Connecticut and consists of two pieces, the first piece being known as the Collins Hill Lot containing forty (40) acres more or less and being bounded north by the old highway; east by land now or formerly of Edward Clark; south by land now or formerly of Alexander Hale and west by land now or formerly of John Penfield being the same and all the same property conveyed to the said Frederick E. Strickland by deed of Henry Kilby, Administrator, dated November 4, 1898 and recorded in the Portland Land Records vol. 17, page 438.

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STATE OF CONNECTICUT)
) ss. Glastonbury August 7th A.D., 1951
COUNTY OF HARTFORD)

Personally Appeared Frederick E. Strickland Signer and Sealer of the foregoing Instrument, and acknowledged the same to be his free act and deed before me.

(S.) John A. Markham
(S.) Commissioner of Superior Court

THIS LEASE, made this 11 day of May, 1952, by and between CONSOLIDATED FELDSPAR CORPORATION, a corporation organized and existing by virtue of the laws of the State of Delaware, having its principal office at Trenton, New Jersey, hereinafter called Lessor, and J. W. NANCE of Bedford, Virginia hereinafter called Lessee.

WITNESSETH: That for and in consideration of the sum of one dollar ($1.00) and other considerations to be paid by the Lessee to the Lessor and in consideration of the royalties and the mutual covenants and agreements hereinafter set forth, the Lessor hereby grants, lets, leases and demises unto the said Lessee all of the Mica, Beryl, Feldspar and such other minerals as Lessee may desire in, upon, or under the property known as the Strickland Mine.

The property which is subject to this lease is situated in the Town of Portland, County of Middlesex and State of Connecticut and consists of two pieces, the first piece being known as the Collins Hill Lot, containing forty (40) acres more or less and being bounded north by the old highway; east by land now or formerly of Edward Clark; south by land now or formerly of Alexander Hale and west by land now or formerly of John Penfield being the same and all the same property conveyed to the said Frederick E. Strickland by deed of Henry Kilby, Administrator, dated November 4, 1898 and recorded in the Portland Land Records, vol. 17, page 438.

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1 - Lessee shall have exclusive right to quarry, blast, dig, mine and remove from said land all Mica, Beryl, Feldspar, and such other minerals as Lessee may desire upon the terms and conditions more fully hereinafter set forth, and during such operations, said Lessee agrees at all times to keep the mine

in a workmanship condition and free from waste, and upon abandoning the mine, Lessee agrees to leave all tunnels and entries to the mine in a good and workable condition.

2 - The period or term for which said property is leased is three years from and after the date of the proper execution and acknowledgment of this lease, or to the termination of the present government mica purchase program, whichever is longer, at which time this lease shall terminate unless the Lessor and Lessee mutually agree in writing to extend the same.

3 - The royalties to be paid by the Lessee to Lessor hereunder shall be as follows:

A - For all Mica mined, removed, sold or shipped, one-eighth (1/8) of the sale price at the mine at the time of such sale or shipment.

B - For all Feldspar mined, removed and sold or shipped - Fifty cents (50¢) per gross ton of 2240 pounds.

C - For all Quartz mined, removed, sold or shipped - Ten cents (10¢) per gross ton of 2240 pounds.

D - For all other minerals removed, sold or shipped - one-eighth (1/8) of the sale price at the mine at the time of such sale or shipment.

All royalties are due and payable on the twentieth day of the month next succeeding the month in which shipments are made. Lessor shall have the right at all reasonable times to inspect the books of the Lessee to see that proper royalty settlements are made. All mica produced from said leased premises is to be kept separate from other mica produced elsewhere until sale is made and royalty paid to Lessor and Lessor is to be furnished a statement of all mica sales promptly.

4 - Lessee shall have all the necessary rights of ingress, egress, and regress over the lands of Lessor for the purpose of conducting said mining and shipping operations and such other operations as pertain to the same and over all mineral lands demised by this lease.

5 - It is further understood that this lease cannot be assigned except by the written consent of the Lessor.

6 - During the continuance of this lease, said Lessee shall have the right to erect, place, replace and maintain any buildings, roadways, tramways, inclines, bridges and machinery of all descriptions, chutes, pipe lines, ditches, tie lines and other such proper methods as are used in mining and the Lessee shall have the right to remove any and/or all of the same from the property at the Lessee's own discretion.

7 - Lessee shall have the right to dump and dispose of all waste and refuse made, arising and resulting from said mining operations upon the land of the Lessor covered by this lease. It is understood and agreed that if at any time during the continuance of this lease in the judgment of the Lessee, mining operations shall become unprofitable, said Lessee shall have the right to terminate this lease by giving to the Lessor notice in writing of such intention to terminate and the Lessee shall have one month from and after such notice within which to remove all of its machinery and equipment, with the exception of mine timbering or other supports necessary to the safe operation of the mine. It is further understood and agreed that upon the failure of the Lessee to comply with the terms of this lease, the Lessor may at its option declare this lease null and void and terminate the same by giving the Lessee one Month's notice in writing; and Lessee shall have a period of one month after receipt of such notice within which either to immediately correct such noncompliance or to cease operations altogether; and should this lease be so terminated, all machinery, tools, buildings, brdiges, inclines, tramways, cableways, pipe lines, tie lines, fixtures, and all other improvements and property placed upon said premises by said Lessee, shall be and remain the property of the said Lessee and the said Lessee shall have on e month within which to remove any and/or all of said property, provided that all royalties have been paid up to date and all other terms of this lease have been complied with.

8 - Lessee agrees that at all times during the continuance of this lease and any renewals thereof that said Lessee will carry sufficient compensation and liability insurance to

protect its operations and said Lessee agrees to save said Lessor harmless from any injury to persons or property resulting from said Lessee's operations.

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

ATTEST: CAROLINA MINERAL COMPANY, INC.

_____ By_____
Secretary

ATTEST: J. W. NANCE

_____ _____

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 Connecticut, County of Middlesex, described as follows: 1/ 2 pieces--The first piece known as the Collins hill lot containing forty (40) acres more or less and being bounded north by the old highway, east by land of Edward Clark, south by land of Alexander Hale, and west by land of John Penfield, being the same and all the land conveyed and by deed to Frederick E. Stuckland by Henry Kelly, administrator, dated Nov. 4, 1898 and recorded in the Portland Records, Doc 17, p 438. The second piece contains four (4) acres more or less and is the same property purchased from Warner Gildersleeve. The whole property known as Strickland Mine. 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/ J. W. Nance

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 production 3/ 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/$ _____, 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 21st day of May, 195 2.

Consolidated Feldspar Corporarion [Seal]

By /s/ R. W. Lawson, Pres [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.

MF-203

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*property is known as the Strickland Mine.

2/ J. W. Nance

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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.

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Dated this 21st day of May, 195 2.

Consolidated Feldspar Corporation [Seal]

By R. W. Lawson, Pres [Seal]

_____ [Seal]

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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.

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2/ J. W. Nance

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Dated this 21st day of May, 1952.

Consolidated Feldspar Corporation [Seal]

By R. W. Lawson President. [Seal]

_____ [Seal]

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Assignment
from Consolidated Foldings
to Nana (applicant) is
on each of the other three
copies of this application