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

A. E. C.

June 28, 1951

Memorandum

To: Executive Secretary, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1662X; Strategic Mica
Norman E. Mashburn
Route #3
Franklin
North Carolina

Denial Recommended Because:

1) Program proposed is development and does not qualify under MO-5.

2) Field Team Examination has failed to produce evidence of strategic grade Mica.

We are forwarding the entire docket which includeds:

Form MF-103 and attachments

James A. Barr

James. A. Barr, Sr.

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

FILE COPY
SURNAME:

Barr

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

June 2 , 1951

Memorandum

To: Executive Secretary, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1662X; Strategic Mica
Norman E. Washburn
Route #3
Franklin
North Carolina

Denial Recommended Because:

1) Program proposed is development and does not qualify under DC-5.

2) Field Team Examination has failed to produce evidence of strategic grade mica.

We are forwarding the entire docket which included:

Form DF-103 and attachments

James Barr

JMB

James. A. Barr, Sr.

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

RW:mas

cc: Mr. Lyon
Mr. Barr
DMA Files

FILE COPY
SURNAME:

Barr

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

[illegible], 1951

[illegible]
Route #3
Franklin
North Carolina

Subject: [illegible]; Mica

Dear Mr. [illegible]:

Your application for the [illegible] exploration project on [illegible] known as [illegible] as [illegible], has been reviewed in this office.

Exploration projects as defined in [illegible], regulations [illegible] project, [illegible] level [illegible] sources of [illegible]; [illegible] a reasonable [illegible] [illegible] the [illegible] [illegible] the [illegible] [illegible] the [illegible] [illegible] character [illegible] the [illegible] [illegible] for [illegible] use.

[illegible] the following:

1) [illegible] proposed [illegible] exploration for [illegible] under [illegible]-5.

2) [illegible] that [illegible] has been presented; a Field Team exploration [illegible] evidence of [illegible] in.

[illegible] your [illegible] for [illegible] the [illegible] 1, 2 is [illegible]. [illegible] information [illegible], we would [illegible] your [illegible] for [illegible].

RW:mas

Sincerely yours,

Tom Lyon

[illegible], Director
[illegible] Division

cc: Mr. Strobel
Mr. Lyon
Mr. Barr
Field Team RegionVII (2)
DMA Files

Mr. Barr

UNITED STATES
DEPARTMENT OF THE INTERIOR

OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 - 1951
LANSING F. MITCHELL
Executive Secretary

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-1662X, Hall-Burra Mine, Macon County, North Carolina

H. E. Washburn

By

J. B. Hadley
U.S. Geological Survey

W. A. Beck and A. L. Peyton
U. S. Bureau of Mines

June 19-21, 1951

June 21, 1951

DMA-1662X-Hall-Burra Mine, Macon County, North Carolina
Norman E. Mashburn, applicant

This mine is described by L. C. Pray in U. S. G. S. Strategic Minerals Investigation, Preliminary Maps, March 1944. It is located near the large Hall mica mine, near the south edge of the Addie quadrangle 8.4 miles by road NNW from Franklin.

Since the investigation of 1944, the applicant has extended the drift from adit "C" 40 feet along the pegmatite, and has sunk a winze about 20 feet from the adit entrance to a depth of 28 feet. The drift is backfilled and inaccessible beyond the winze, but the applicant says that it is all in pegmatite containing some sheet mica. The winze is flooded to a depth of 15 feet. Above the water level it followed the hanging wall of the pegmatite at a dip of 70° S. Considerable massive quartz, exposed in the footwall of the winze, indicates the presence of a quartz core about 2½ ft. from the hanging wall of the pegmatite. A few 2-inch books of mica can be seen near the hanging wall in the winze.

The U. S. G. S. report of 1944 states that the mica then exposed was of rather poor quality and relatively small in quantity. No evidence was seen this time to indicate that mica of better quality had been found since 1944.

The applicant's proposal to drive a tunnel 125 to 150 feet to intersect the pegmatite 12 feet below and 50 feet east of the botton of the winze would be advantageous in possible mining but would furnish very little information as to the quantity and quality of sheet mica present. It is recommended that the applicant be denied on grounds of the improbability that the deposit will produce sheet mica.

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

Mailed
JUN 26 1951

June 19, 1951

Mr. Robert Laurence
Rm. 13, Post Office Bldg.
Knoxville, Tennessee

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. DMA-1662X

Commodity Mica

Applicant Mr. Norman E. Hashburn, Rt. 3, Franklin, Macon County, N.C.

Please expedite the consideration of this application with particular reference to the points noted in the attached "Review."

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

RW:dak

cc: Mr. Moon
Mr. Barr

For Bureau of Mines

For Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR

OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-1662X, Hall-Burrs Mine, Macon County, North Carolina

Norman E. Bradburn

By

J. B. Hadley
U.S. Geological Survey

W. A. Beck and A. L. Peyton
U. S. Bureau of Mines

June 19-21, 1951

June 21, 1951

DMA-16622-Hall-Burra Mine, Macon County, North Carolina
Norman E. Mashburn, applicant

This mine is described by L. C. Pray in U. S. G. S. Strategic Minerals Investigation, Preliminary Maps, March 1944. It is located near the large Hall mica mine, near the south edge of the Addie quadrangle 8.4 miles by road NNW from Franklin.

Since the investigation of 1944, the applicant has extended the drift from adit "C" 40 feet along the pegmatite, and has sunk a winze about 20 feet from the adit untrance to a depth of 28 feet. The drift is backfilled and inaccessible beyond the winze, but the applicant says that it is all in pegmatite containing some sheet mica. The winze is flooded to a depth of 15 feet. Above the water level it followed the hanging wall of the pegmatite at a dip of 70° S. Considerable massive quartz, exposed in the footwall of the winze, indicates the presence of a quartz core about 2½ ft. from the hanging wall of the pegmatite. A few 2-inch books of mica can be seen near the hanging wall in the winze.

The U. S. G. S. report of 1944 states that the mica then exposed was of rather poor quality and relatively small in quantity. No evidence was seen this time to indicate that mica of better quality had been found since 1944.

The applicant's proposal to drive a tunnel 125 to 150 feet to intersect the pegmatite 12 feet below and 50 feet east of the bottom of the winze would be advantageous in possible mining but would furnish very little information as to the quantity and quality of sheet mica present. It is recommended that the applicant be denied on grounds of the improbability that the deposit will produce sheet mica.

UNITED STATES
DEPARTMENT OF THE INTERIOR

OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-1662X, Hall-Burra Mine, Macon County, North Carolina

By

J. B. Hadley
U.S. Geological Survey

N. A. Beck and A. L. Peyton
U. S. Bureau of Mines

June 19-21, 1951

June 21, 1951

DMA-1662M-Hall-Burra Mine, Macon County, North Carolina
Norman E. Mashburn, applicant

This mine is described by L. C. Pray in U. S. G. S. Strategic Minerals Investigation, Preliminary Maps, March 1944. It is located near the large Hall mica mine, near the south edge of the Addie quadrangle 8.4 miles by road NNW from Franklin.

Since the investigation of 1944, the applicant has extended the drift from adit "C" 40 feet along the pegmatite, and has sunk a winze about 20 feet from the adit entrance to a depth of 28 feet. The drift is backfilled and inaccessible beyond the winze, but the applicant says that it is all in pegmatite containing some sheet mica. The winze is flooded to a depth of 15 feet. Above the water level it followed the hanging wall of the pegmatite at a dip of 70° S. Considerable massive quartz, exposed in the footwall of the winze, indicates the presence of a quartz core about 2½ ft. from the hanging wall of the pegmatite. A few 2-inch books of mica can be seen near the hanging wall in the winze.

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6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1662 X

Commodity Mica (Sheet)

Total Amount $18,820 =

Govt. Participation 90%

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 - 1951
LANDON F. STROBEL
Executive Secretary

1. Name and Address of Applicant Norman E Mashburn, Route 3 Franklin, Macon County, N. Caro.

2. Location of Property 4½ miles N of Franklin, N. Caro.

3. Mineral or metal Strategic Mica Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

See attached sheet for

d) Don't know—needs field examination Probably

e) Is there an alternative and favorable project? (If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes, owner (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future productive period? —

*question numbers are those of MF-103

Application DMA-1662-X, Norman E. Mashburn
Franklin, N. Caro.

The applicant's description of this working appeared to be rather interesting. However, the mine was mapped in early 1944 by members of the Geological Survey. They state that the mica is of poor quality, containing black inclusions, cracked and warped books, and considerable "A" structure. They state that it is reported that about 3 percent of the run-run mica is recoverable as trimmed sheet and punch mica. They estimate that the run-run mica recovered is probably less than 2 percent of the rock mined. They state that from the available exposures this deposit does not show promise as a source of strategic mica.

After this examination the applicant must have carried on some more prospecting and hence the mine should probably be visited to see if any better quality of mica has been opened up.

On the basis of the report we have on the mine I would give a poor rating for exploration.

If the field team finds a better quality of mica the proposed work will probably be development instead of exploration.

1662-R

7. Are subordination agreements necessary? NO

a) MF-201?

b) MF-202

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* yes

d) Water (question 13)* yes

e) Power (question 13)* yes

Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Insufficient data

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? In part.

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No
See attached answer to question 4

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Questionably —

If not, what part of it is? Some additional stripping might be OK - Field Team will have to advise on this -

1652-F

Is this part a worthwhile exploration project? Yes - subject Field Exam.

d) Are the cost estimates detailed? Yes, but will no doubt need considerable revision only at Project is Granted

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? _____ If so, attach a draft.

e) Are the cost estimates reasonable? High

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Not Applicable

b) If so, are sufficient data furnished? _____ If so, attach a draft.

c) Is a field check needed? NO

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes - but excessive

b) Sufficient data? _____ If so, attach a draft.

c) Are rents and charges reasonable? Field check needed

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? Yes

d) Are the proposed wages and salaries reasonable? NO

e) Is a field check needed? Yes - Why a Supt. & Bookkeeper on Small Exploration Job?

1662-TP

14. Exhibit E (question 23-c)*

a) Is it applicable? Not Applicable

b) Sufficient data?

c) Reasonable?

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check for better grade of Mica in later workings per Reddon's Memo. If any has been found is additional Exploration justified? Is mine ready for Production and if so would it qualify for Development & Mining Loan? If additional Exploration is indicated cannot a much simpler program be outlined for Applicant, perhaps a hand tool & for bulldozer job costing, say, $1000 to $2000?

Reviewed by:

Date

JJWorley
6/6/57

97692

14. Exhibit E (question 23-c)*

a) Is it applicable? Not Applicable

b) Sufficient data?

c) Reasonable?

d) Field check needed? NO

15. In your judgment, can the proposed work be done in the proposed time? yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check for better grade of Mica in later workings per Reddan's Memo - If any has been found is additional Exploration justified? Is mine ready for Production and if so would it qualify for Development & Mining Loan? If additional Exploration is indicated cannot a much simpler program be outlined for Applicant, perhaps a hand tool &/or bulldozer job costing, say, $1000 to $2000?

Reviewed by:

Date

J. Whitney
6/16/51

97692

FILE COPY
SURNAME:

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

June 20, 1951

Mr. Norman E. Mashburn
Route 3
Franklin, North Carolina

Subject: DMA-1662X
Re: Exploration loan
Hall-Burra Mine

My dear Mr. Mashburn:

Receipt is acknowledged of your application and attachments of June 5, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1662X and was referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 12, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1662X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:Jeb
cc: Strobel-2
Files
Barr
Lyon

Dma 1662

856

FILE COPY
SURNAME:

Barr
Moon
McKnight for Rose

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

docket mailed 6/26/51

June 19, 1951

Mr. Norman E. Washburn
Route 3, Macon County
Franklin, North Carolina

Subject: DMA-1662X
Strategic Mica

Dear Mr. Washburn:

Your application is being referred to Mr. Robert Laurence, Rm. 13, Post Office Building, Knoxville, Tennessee, Executive Officer of the Field Team, Region VII, for further information.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

RW:dak

cc: Mr. Strobel
Administrator's Reading File
Field Team
Mr. Barr
DMA Files

DMA 1662

856

Dma-1662 X

W. N. C. MINERS' ASSOCIATION

FRANKLIN, NORTH CAROLINA

AN ASSOCIATION OF MINERAL MINERS OF WESTERN NORTH CAROLINA

OFFICERS

PRESIDENT
CHARLES T. BRADLEY

VICE PRESIDENT
GOODLOW BOWMAN

SECRETARY
ROY H. FOUTS

TREASURER
HARRY PATTEN

DIRECTORS

FRED ARNOLD
GOODLOW BOWMAN
C. T. BRADLEY
ROY H. FOUTS
KERMA HOLLAND
NORMAN MASHBURN
HARRY PATTEN
A. W. REID, CH.

June 5, 1951

Defense Minerals Administration
Washington 25, D. C.

Attention: Mr. Landon F. Strobel
Executive Secretary

Gentlemen:

We are enclosing herewith application for Exploratory Loan:

NORMAN E. MASHBURN
Route 3
Franklin, North Carolina

Cordially yours,

F. T. Siersma
Member - Local
Mining Committee

FTS:re

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 8 - 1951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-1662X

Date received 6/8/51

Participation

NORMAN E. MASHBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

FILL IN THIS BLOCK

Date of application JUNE 5, 1951

Estimated cost $ 18,820.00

Mineral or metal STRATEGIC MICA

Percentage of Government participation 90%

Location of mine 7 miles North of FRANKLIN, N. C.

Date of filing MF-100 JUNE 5, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*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.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

(Name of company)	By Norman E. Mashburn (Signature of authorized official)
JUNE 5, 1951 (Date)	OWNER (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-103 NORMAN E. MASHBURN ROUTE 3, FRANKLIN, N. C.

THE APPLICANT

1. Individual.

4. Applicant has been engaged in mining for 30 years, and has mined for mica for 16 years.

5. Owner

6. No liens or encumbrances against property.

9. Ten percent; sufficient in accordance with Government participation on strategic mica (Section 9 of MO-5).

THE PROPERTY

10. Description of the property and legal description of the area are the same:

1. The mineral interests and mining rights and privileges conveyed to W. B. McGuire by deed from Clark W. Bishop et al, dated May 29, 1931, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book T-4, page 83.

2. The tract of land described in a deed from Edwin Passmore to Roger S. Warner, dated November 10, 1910, and recorded in Book D-4, page 449, of the Register of Deeds office for Macon County.

11. Present name: Hall-Burra Mine.

12. Property is located 4½ miles North of Franklin, N. C. (Railroad shipping point) on State Highway #19, to Iotla Bridge, thence West 2 miles on State road and ½ mile on access road.

13. Sufficient water on property for all requirements. No power required.

14. Mine contains 2 suitable buildings for blacksmith shop and tool house.

15. Mica (sheet & punch) will be processed and sheeted on property and shipped from Franklin, N. C.

16. (a) Applicant started mining here in 1943 for scrap mica; went down 30 feet. In 1944, with only hand tools, reached and produced strategic mica. In 6 months produced about $2,000 worth. Stopped mining when Colonial Mica Corporation ceased buying. The vein is 2½ feet at surface, at 20 feet down is approximately 12 feet wide and 100 feet long and is still spreading. The tunnel made was 100 feet long. It is proposed to bulldoze 125 feet of vein (NE) to depth of 25 feet. Cut will then be 25 feet below old workings and allow for drainage, and to run a tunnel 150 feet into the vein.

THE PROPERTY (Continued)

16. (b) Property is located directly within the mica belt of Western North Carolina. Neighboring properties, such as the Beasley Mines, Poll Miller Mines, Mill Knob, etc., have been high producers and their results are recorded with the Bureau of Mines.

17. Mine is not in production.

18. Not applicable.

THE EXPLORATION

21. See above for 16(a). The estimated time required to complete the exploration is 120 days.

THE REQUIREMENTS AND COSTS:

23.

	EACH DAILY	120 DAYS
(a) LABOR:		
1 Driller	$15.00	$ 1,800.00
1 Miner	12.00	1,440.00
2 Muckers	10.00	2,400.00
(b) SUPERVISORS:		
1 Superintendent	25.00	3,000.00
1 Bookeeper	8.00	960.00
(e) EQUIPMENT:		
1 Air Compressor (125 cfm)		3,170.00
2 Jackhammer Drills, @ $345.00		690.00
Steel and Small Tools		800.00
(f) Bulldozer		1,000.00
(g) 500' Track and Tram Car		500.00
Pickup Truck @ $5.00 per day		600.00
(h) Materials and Supplies:		
Powder, Fuse, Exploders, etc. ($12.50 per day)		1,500.00
Gasoline & Oil for Equipment ($8.00 per day)		960.00
TOTAL REQUIREMENTS		$18,820.00

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-1662X

Date received 6/8/51

Participation

NORMAN E. HASHBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

FILL IN THIS BLOCK

Date of application JUNE 5, 1951

Estimated cost $ 18,820.00

Mineral or metal STRATEGIC MICA

Percentage of Government participation 90%

Location of mine 7 miles North of FRANKLIN, N. C.

Date of filing MF-100 JUNE 5, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

(Name of company)	By Norman E. Mashburn (Signature of authorized official)
JUNE 5, 1951 (Date)	OWNER (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

MF-103 NORMAN E. MASHBURN ROUTE 3, FRANKLIN, N. C.

THE APPLICANT

1. Individual.

4. Applicant has been engaged in mining for 30 years, and has mined for mica for 16 years.

5. Owner

6. No liens or encumbrances against property.

9. Ten percent; sufficient in accordance with Government participation on strategic mica (Section 9 of MO-5).

THE PROPERTY

10. Description of the property and legal description of the area are the same:

1. The mineral interests and mining rights and privileges conveyed to W. B. McGuire by deed from Clark W. Bishop et al, dated May 29, 1931, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book T-4, page 83.

2. The tract of land described in a deed from Edwin Passmore to Roger S. Warner, dated November 10, 1910, and recorded in Book D-4, page 449, of the Register of Deeds office for Macon County.

11. Present name: Hall-Burra Mine.

12. Property is located 4½ miles North of Franklin, N. C. (Railroad shipping point) on State Highway #19, to Iotla Bridge, thence West 2 miles on State road and ½ mile on access road.

13. Sufficient water on property for all requirements. No power required.

14. Mine contains 2 suitable buildings for blacksmith shop and tool house.

15. Mica (sheet & punch) will be processed and sheeted on property and shipped from Franklin, N. C.

16. (a) Applicant started mining here in 1943 for scrap mica; went down 30 feet. In 1944, with only hand tools, reached and produced strategic mica. In 6 months produced about $2,000 worth. Stopped mining when Colonial Mica Corporation ceased buying. The vein is 2½ feet at surface, at 20 feet down is approximately 12 feet wide and 100 feet long and is still spreading. The tunnel made was 100 feet long. It is proposed to bulldoze 125 feet of vein (NE) to depth of 25 feet. Cut will then be 25 feet below old workings and allow for drainage, and to run a tunnel 150 feet into the vein.

THE PROPERTY (Continued)

16. (b) Property is located directly within the mica belt of Western North Carolina. Neighboring properties, such as the Beasley Mines, Poll Miller Mines, Mill Knob, etc., have been high producers and their results are recorded with the Bureau of Mines.

17. Mine is not in production.

18. Not applicable.

THE EXPLORATION

21. See above for 16(a). The estimated time required to complete the exploration is 120 days.

THE REQUIREMENTS AND COSTS:

23.

	EACH DAILY	120 DAYS
(a) LABOR:		
1 Driller	$15.00	$ 1,800.00
1 Miner	12.00	1,440.00
2 Muckers	10.00	2,400.00
(b) SUPERVISORS:		
1 Superintendent	25.00	3,000.00
1 Bookeeper	8.00	960.00
(e) EQUIPMENT:		
1 Air Compressor (125 cfm)		3,170.00
2 Jackhammer Drills, @ $345.00		690.00
Steel and Small Tools		800.00
(f) Bulldozer		1,000.00
(g) 500' Track and Tram Car		500.00
Pickup Truck @ $5.00 per day		600.00
(h) Materials and Supplies:		
Powder, Fuse, Exploders, etc. ($12.50 per day)		1,500.00
Gasoline & Oil for Equipment ($8.00 per day)		960.00
TOTAL REQUIREMENTS		$18,820.00

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. DMA-1662X

Date received 6/8/51

NORMAN E. MASHBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 8 - 1951
LANDON F. STIEGEL
Executive Secretary

Name and address of applicant

Date JUNE 5, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Strategic mica
   (*b*) What are the byproducts, if any? Feldspar
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. 7 miles North of Franklin, N. C.
   (*b*) Mining district. Franklin, N. C.
   (*c*) Township, Section, Range. Iotla
   (*d*) County, State. Macon County, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production: Operation has not started.

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor: Operation has not started.

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Norman E. Mashburn
(Signature of authorized official)

JUNE 5, 1951
(Date)

OWNER
(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
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-1662X

Date received 6/8/51

Participation

NORMAN E. HAMBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

FILL IN THIS BLOCK

Date of application JUNE 5, 1951

Estimated cost $ 18,820.00

Mineral or metal STRATEGIC MICA

Percentage of Government participation 90%

Location of mine 7 miles North of FRANKLIN, N. C.

Date of filing MF-100 JUNE 5, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

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(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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(Name of company)	By Norman E. Mashburn (Signature of authorized official)
JUNE 5, 1951 (Date)	OWNER (Title)

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*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

THE PROPERTY (Continued)

16. (b) Property is located directly within the mica belt of Western North Carolina. Neighboring properties, such as the Beasley Mines, Poll Miller Mines, Mill Knob, etc., have been high producers and their results are recorded with the Bureau of Mines.

17. Mine is not in production.

18. Not applicable.

THE EXPLORATION

21. See above for 16(a). The estimated time required to complete the exploration is 120 days.

THE REQUIREMENTS AND COSTS:

23.

	EACH DAILY	120 DAYS
(a) LABOR:		
1 Driller	$15.00	$ 1,800.00
1 Miner	12.00	1,440.00
2 Muckers	10.00	2,400.00
(b) SUPERVISORS:		
1 Superintendent	25.00	3,000.00
1 Bookeeper	8.00	960.00
(e) EQUIPMENT:		
1 Air Compressor (125 cfm)		3,170.00
2 Jackhammer Drills, @ $345.00		690.00
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(g) 500' Track and Tram Car		500.00
Pickup Truck @ $5.00 per day		600.00
(h) Materials and Supplies:		
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Gasoline & Oil for Equipment ($8.00 per day)		960.00
TOTAL REQUIREMENTS		$18,820.00

FORM MF-103 NORMAN E. MATHBURN ROUTE 3, FRANKLIN, N. C.

THE APPLICANT

1. Individual.

4. Applicant has been engaged in mining for 30 years, and has mined for mica for 16 years.

5. Owner

6. No liens or encumbrances against property.

9. Ten percent; sufficient in accordance with Government participation on strategic mica (Section 9 of MO-5).

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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. Dma-1662X

Date received 6/8/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 8 - 1951
LANDON F. STROBEL
Executive Secretary

NORMAN B. BROADWAY
BOX 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Strategic mica
   (*b*) What are the byproducts, if any? Feldspar
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. 7 miles North of Franklin, N. C.
   (*b*) Mining district. Franklin, N. C.
   (*c*) Township, Section, Range. Iotla
   (*d*) County, State. Macon County, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production: Operation has not started.

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor: Operation has not started.

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Norman E. Mashburn
(Signature of authorized official)

JUNE 5, 1951
(Date)

Owner
(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—63702-1

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA-1662X

Date received 6/8/51

NORMAN E. MASHBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 8 - 1951
LANDON F. STROBEL
Executive Secretary

Date JUNE 5, 1951

Name and address of applicant

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Strategic mica
   (*b*) What are the byproducts, if any? Feldspar
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. 7 miles North of Franklin, N. C.
   (*b*) Mining district. Franklin, N. C.
   (*c*) Township, Section, Range. Iotla
   (*d*) County, State. Macon County, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____
   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production: Operation has not started.

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor: Operation has not started.

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Norman E. Mashburn
(Signature of authorized official)

JUNE 5, 1951
(Date)

OWNER
(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-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. Dma-1662X

Date received 6/8/51

[illegible]
[illegible] 3
[illegible]
[illegible]

Name and address of applicant

Date JUNE 5, 1951

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? Stratopite mica
   (*b*) What are the byproducts, if any? Feldspar
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. 7 miles North of Franklin, N. C.
   (*b*) Mining district. Franklin, N. C.
   (*c*) Township, Section, Range. Iota
   (*d*) County, State. Macon County, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____
   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production: Operation has not started.

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

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

12. Ore or Mineral Reserves:

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-16628

Date received 6/8/51

Participation

HARRIAN L. HAMILTON
ROUTE 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

FILL IN THIS BLOCK

Date of application JUNE 5, 1951

Estimated cost $ 10,820.00

Mineral or metal STRATEGIC MICA

Percentage of Government participation 90%

Location of mine 7 miles North of FRANKLIN, N. C.

Date of filing MF-100 JUNE 5, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

(Name of company)	By Kasman E. Washburn (Signature of authorized official)
JUNE 5, 1952 (Date)	OWNER (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-103 NORMAN E. MAINBURN ROUTE 3, FRANKLIN, N. C.

THE APPLICANT

1. Individual.

4. Applicant has been engaged in mining for 30 years, and has mined for mica for 16 years.

5. Owner

6. No liens or encumbrances against property.

9. Ten percent; sufficient in accordance with Government participation on strategic mica (Section 9 of MO-5).

THE PROPERTY

10. Description of the property and legal description of the area are the same:

1. The mineral interests and mining rights and privileges conveyed to W. B. McGuire by deed from Clark W. Bishop et al, dated May 29, 1931, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book T-4, page 83.

2. The track of land described in a deed from Edwin Passmore to Roger C. Warner, dated November 10, 1910, and recorded in Book D-4, page 449, of the Register of Deeds office for Macon County.

11. Present name: Hall-Burra Mine.

12. Property is located 4½ miles North of Franklin, N. C. (Railroad shipping point) on State Highway #19, to Iotla Bridge, thence West 2 miles on State road and ½ mile on access road.

13. Sufficient water on property for all requirements. No power required.

14. Mine contains 2 suitable buildings for blacksmith shop and tool house.

15. Mica (sheet & punch) will be processed and sheeted on property and shipped from Franklin, N. C.

16. (a) Applicant started mining here in 1943 for scrap mica; went down 30 feet. In 1944, with only hand tools, reached and produced strategic mica. In 6 months produced about $2,000 worth. Stopped mining when Colonial Mica Corporation ceased buying. The vein is 2½ feet at surface, at 20 feet down is approximately 12 feet wide and 100 feet long and is still spreading. The tunnel made was 100 feet long. It is proposed to bulldoze 125 feet of vein (NE) to depth of 25 feet. Cut will then be 25 feet below old workings and allow for drainage, and to run a tunnel 150 feet into the vein.

THE PROPERTY (Continued)

16. (b) Property is located directly within the mica belt of Western North Carolina. Neighboring properties, such as the Beasley Mines, Poll Miller Mines, Mill Knob, etc., have been high producers and their results are recorded with the Bureau of Mines.

17. Mine is not in production.

18. Not applicable.

THE EXPLORATION

21. See above for 16(a). The estimated time required to complete the exploration is 120 days.

THE REQUIREMENTS AND COSTS:

23.

	EACH DAILY	120 DAYS
(a) LABOR:		
1 Driller	$15.00	$ 1,800.00
1 Miner	12.00	1,440.00
2 Muckers	10.00	2,400.00
(b) SUPERVISION:		
1 Superintendent	25.00	3,000.00
1 Bookkeeper	8.00	960.00
(e) EQUIPMENT:		
1 Air Compressor (125 cfm)		3,170.00
2 Jackhammer Drills, @ $345.00		690.00
Steel and Small Tools		300.00
(f) Bulldozer		1,000.00
(g) 500' Track and Tram Car		500.00
Pickup Truck @ $5.00 per day		600.00
(h) Materials and Supplies:		
Powder, Fuse, Exploders, etc. ($12.50 per day)		1,500.00
Gasoline & Oil for Equipment ($8.00 per day)		960.00
TOTAL REQUIREMENTS		$13,820.00

(*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: Operation has not started.

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Norman E. Mashburn
(Signature of authorized official)

JUNE 5, 1951
(Date)

OWNER
(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-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. Dma-1662X

Date received 6/8/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 8 - 1951
LANDON F. STROBEL
Executive Secretary

NORMAN E. HASBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

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? Stratogic mica
   (*b*) What are the byproducts, if any? Feldspar
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. 7 miles North of Franklin, N. C.
   (*b*) Mining district. Franklin, N. C.
   (*c*) Township, Section, Range. Iotla
   (*d*) County, State. Macon County, N. C.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____
   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production: Operation has not started.

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

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

12. Ore or Mineral Reserves:

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1662X

Date received 6/8/51

Participation

NORMAN E. MASHBURN
ROUTE 3
FRANKLIN
NORTH CAROLINA

Name and address of applicant

Date JUNE 5, 1951

FILL IN THIS BLOCK

Date of application JUNE 5, 1951

Estimated cost $ 18,820.00

Mineral or metal STRATEGIC MICA

Percentage of Government participation 90%

Location of mine 7 miles North of FRANKLIN, N. C.

Date of filing MF-100 JUNE 5, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

(Name of company)	By Hassan E. Mashburn (Signature of authorized official)
JUNE 5, 1951 (Date)	OWNER (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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

FORM MF-303 NORMAN E. MATHERN ROUTE 3, FRANKLIN, N. C.

THE APPLICANT

1. Individual.

4. Applicant has been engaged in mining for 30 years, and has mined for mica for 16 years.

5. Owner

6. No liens or encumbrances against property.

9. Ten percent; sufficient in accordance with Government participation on strategic mica (Section 9 of MO-5).

THE PROPERTY

10. Description of the property and legal description of the area are the same:

1. The mineral interests and mining rights and privileges conveyed to W. B. McGuire by deed from Clark W. Bishop et al, dated May 29, 1931, and recorded in the office of the Register of Deeds for Macon County, North Carolina, in Deed Book T-4, page 83.

2. The tract of land described in a deed from Edwin Passmore to Roger W. Harner, dated November 10, 1910, and recorded in Book D-4, page 449, of the Register of Deeds office for Macon County.

11. Present name: Hall-Burrs Mine.

12. Property is located 4½ miles North of Franklin, N. C. (Railroad shipping point) on State Highway #19, to Iotla Bridge, thence West 2 miles on State road and ½ mile on access road.

13. Sufficient water on property for all requirements. No power required.

14. Mine contains 2 suitable buildings for blacksmith shop and tool house.

15. Mica (sheet & punch) will be processed and sheeted on property and shipped from Franklin, N. C.

16. (a) Applicant started mining here in 1943 for scrap mica; went down 30 feet. In 1944, with only hand tools, reached and produced strategic mica. In 6 months produced about $2,000 worth. Stopped mining when Colonial Mica Corporation ceased buying. The vein is 2½ feet at surface, at 20 feet down is approximately 12 feet wide and 100 feet long and is still spreading. The tunnel made was 100 feet long. It is proposed to bulldoze 125 feet of vein (NE) to depth of 25 feet. Cut will then be 25 feet below old workings and allow for drainage, and to run a tunnel 150 feet into the vein.

THE PROPERTY (Continued)

16. (b) Property is located directly within the mica belt of Western North Carolina. Neighboring properties, such as the Beasley Mines, Poll Miller Mines, Mill Knob, etc., have been high producers and their results are recorded with the Bureau of Mines.

17. Mine is not in production.

18. Not applicable.

THE EXPLORATION

21. See above for 16(a). The estimated time required to complete the exploration is 120 days.

THE REQUIREMENTS AND COSTS:

23.

	EACH DAILY	120 DAYS
(a) LABOR:		
1 Driller	$15.00	$ 1,800.00
1 Miner	12.00	1,440.00
2 Muckers	10.00	2,400.00
(b) SUPERVISORS:		
1 Superintendent	25.00	3,000.00
1 Bookeeper	8.00	960.00
(e) EQUIPMENT:		
1 Air Compressor (125 cfm)		3,170.00
2 Jackhammer Drills, @ $345.00		690.00
Steel and Small Tools		800.00
(f) Bulldozer		1,000.00
(g) 500' Track and Tram Car		500.00
Pickup Truck @ $5.00 per day		600.00
(h) Materials and Supplies:		
Powder, Fuse, Exploders, etc. ($12.50 per day)		1,500.00
Gasoline & Oil for Equipment ($8.00 per day)		960.00
TOTAL REQUIREMENTS		$18,820.00

(*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: Operation has not started.

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Norman E. Mashburn
(Signature of authorized official)

June 5, 1951
(Date)

OWNER
(Title)

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