DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1714X

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Routing Slip

To: Mr Lyon Date 7-31

To: Reports + Records Date 8-1-8

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INT.-DUP. SEC., WASH., D.C. 98868

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

970

July 30, 1951

Mr. T. D. Bryson

Franklin, North Carolina

Subject: DA-1714-X

Dear Mr. Bryson:

Your application for a [illegible] for an exploration project on a [illegible] located on Lyle Knob Mine, near Franklin, N. C. and designated as DA-1714-X, has been reviewed [illegible] this office.

[illegible] as [illegible], we [illegible] Government aid in defense exploration projects, but [illegible] necessary to search for [illegible] undeveloped sources of strategic minerals; the work must be [illegible] by a reasonable [illegible] and sampling. The [illegible] work [illegible] [illegible] and [illegible].

A very careful study of your project indicates, [illegible] by field [illegible] the following:

1. The property has been operated at intervals over a period of years and has extensive accessible [illegible] at the present time. [illegible] and [illegible] of additional [illegible] has not been demonstrated.

2. [illegible] reparable [illegible] and [illegible] under [illegible].

Under these circumstances, your application for exploration aid [illegible] 50 per cent [illegible] 25,000 [illegible]. Should additional information become available, we [illegible] have your resubmit [illegible] for consideration.

Very truly [illegible],

JWaskey:awj

Flem Lyon

cc:File
Adm. Reading File
Reports & Records Unit
Mr. Lyon
Mr. Barr

[illegible] Lyon
Director, Supply [illegible]

FILE COPY
SURNAME:

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

Barr

A.E.C.

[illegible] 30, 1951

Mr. [illegible]

Subject: [illegible]A-1711-X

Franklin, North Carolina

Dear Mr. [illegible]:

[illegible] for an exploration project [illegible] a [illegible] Lake [illegible], near [illegible], [illegible] and [illegible] A-1711-X, has been [illegible] of [illegible].

[illegible] the [illegible] Government [illegible] necessary to search for [illegible] sources of [illegible]; the [illegible] work [illegible] available [illegible].

[illegible] following [illegible]:

1. [illegible] justification [illegible].

2. [illegible] preparation [illegible].

Under [illegible] 23, [illegible] additional information [illegible] available, we will [illegible] research [illegible] for consideration.

Very truly yours,

Tom Lyon

JWaskey:awj

cc: File
Adm. Reading File
Reports & Records Unit
Mr. Lyon
Mr. Barr

8/2 cc

FILE COPY
SURNAME:

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

July 30, 1951
Code 370

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1714X, T. D. Bryson, Jr.
Commodity: Mica
Amount of loan: $23,765

Denial recommended because:

1. The property is rather well developed; additional exploration is not justified.

2. Work proposed is mining or preparation for mining and does not qualify under MO-5.

Attached:

1. Form MF-100 and MF-103 with supplemental information.

2. Report from Field Team, Region VII.

James Barr
M. P. Arc
James A. Barr, Jr.

Approved:
Tom Lyon

Director, Supply Division

RWASKEY:mp
cc: Reports and Records
Mr. Lyon
Mr. Barr
Field Team, Region VII (2)
DMA Files

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

July 30, 1951

a. E. C.

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1714X, T. D. Bryson, Jr.
Commodity: Mica
Amount of loan: $23,765

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Attached:

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2. Report from Field Team, Region VII.

James A. Barr

James A. Barr, Sr.

Approved:

Tom Lyon

Director, Supply Division

July 30, 1951

Code 370

Memorandum

To: Reports and Records Unit, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1714X, T. D. Bryson, Jr.
Commodity: Mica
Amount of loan: $23,765

Denial recommended because:

1. The property is rather well developed; additional exploration is not justified.

2. Work proposed is mining or preparation for mining and does not qualify under MO-5.

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2. Report from Field Team, Region VII.

James A. Barr, Sr.

Approved:

Director, Supply Division

RWASKEY:mp
cc: Reports and Records
Mr. Lyon
Mr. Barr
Field Team, Region VII (2)
DMA Files

[illegible]

July [illegible], 19[illegible]

Mr. T. [illegible]

Subject: [illegible]

Franklin, [illegible]

Dear Mr. [illegible]:

[illegible]

[illegible]

[illegible]

1. [illegible]

2. [illegible]

[illegible]

Very [illegible]

JAM:eyl:awj

cc: file
Adm. Read [illegible]
Reports & Records [illegible]
Mr. Lyon
Mr. [illegible]

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

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

Dear Sir:

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

Applicant ~~T.D. Dryson, Jr., Franklin, N.C.~~

Docket No. ~~DMA-174~~

Commodity ~~Strategic Mica~~

Amount $ ~~23,765~~

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

DEPARTMENT OF THE
Defense Minerals Ad
RECEIVED
JUL 20 1951
LANDON F. STROBEL
Executive Secretary

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-1714X, Lyle Knob Mine

T. D. Bryson, Jr. Macon County, N. C.

By

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

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

July 13, 1951

Report of Field Examination on

DMA-1714X, Lyle Knob Mine
T. D. Bryson, Jr. Macon Co.
North Carolina

July 13, 1951

This mine, located 5 miles north of Franklin, N. C. (Green Creek, N. C. 166-SE, southwest corner) has been operated at various intervals for the past 50 years. Both sheet and scrap mica has been produced, resulting in extensive underground openings in the pegmatite. Sheet mica is exposed in several headings in the accessible adits, thus it appears to the Field Team that the deposit is well developed and as such does not qualify for an exploration loan.

The proposed stripping by bulldozer was to be directed mainly towards the production of scrap mica ore. Furthermore, it appears to the Field Team that the soft weathered overburden over the pegmatite extends to only 15 to 20 feet in depth and after that depth is reached, removal of rock over the pegmatite would be essentially a hard rock quarrying operation.

3538

JUL 5 1951

T.D. Bryson, Jr.
Franklin
North Carolina

Subject: [illegible]-17142; Ilco

Dear Mr. Bryson:

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

Sincerely yours,

Ken Lyon, Director
Supply Division

RW:mas July 3, 1951

cc: Mr. Strobel
Mr. Barr
Field Team Region VII (2)
DEA Files

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA- 1714X

Commodity Strategic Mica

Total Amount $23,765.00

Govt. Participation 90%

1. Name and Address of Applicant T. D. Bryson, Jr.,
Franklin, No. Carolina

2. Location of Property 5 miles north of Franklin, Macon County
North Carolina

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 Applicant has mapped up exploration
b) Poor with development. the previous mica produced
c) None from this mine was of fairly good quality. Estimated production is
d) Don't know—needs field examination much too high. Yes - to field JAR 6/29/51
Is there an alternative and favorable project? (actually less than 10% from mine run.
(If so, attach an explanation) also amount of sheet + punch recovered is too high. Probably all of first 100 feet of depth of the mine has been worked out. JR

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

6. If applicant is a lessee, is a copy of the lease attached? No-owner

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

*question numbers are those of MF-103

7. Are subordination agreements necessary? Probably Not -

a) MF-201? ~~Probably not required but no definite statement regarding encumbrances~~ Not required

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 - all must be purchased or rented
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes - electric power line within 1/4 mi. Use gasoline or diesel engines

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes - in general business + plans to hire operating foreman

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? - Stripping of overburden - Yes - other work production

If not, what part of it is? No information on area to be stripped but this portion of program "exploration". As outlined by Reid much of stripping will go beyond exploration. Cut-off of exploration should be estimated

Is this part a worthwhile exploration project? unknown

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? None given

f) Should more information be requested from applicant? Yes - by field team

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

11. Exhibit B (question 23-d)*

a) Is it applicable? No information —

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes

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

a) Is it applicable? Yes -

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Bulldozer excessive - Truck not needed - other items reasonable

d) Is a field check needed? Yes

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

a) Are there sufficient data? No

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

c) Is the schedule excessive for the work proposed? Yes - too many men Supt + Bookkeeper not needed.

d) Are the proposed wages and salaries reasonable? Yes -

e) Is a field check needed? Yes -

14. Exhibit E (question 23-c)*

a) Is it applicable? No-

b) Sufficient data? No- building on property but possible repairs indicated not

c) Reasonable? ———

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Exploration phase-probably 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? The amount of stripping which is property exploration should be determined & the program revised accordingly. The exploration value of the project should be studied. The labor + equipment needs should be discussed with applicant

Daily production figures are too high. Proposed exploration work may not be best for mine conditions. Check on how much and to what depth the workings and stopes extend. See if possible reserves will warrant exploration.

Reviewed by: Rosine M Bunty 6/29

J W Reddan 6/29/51

Date 6/29/51

97692

6/29/50

Docket No - DMA 1714X

Section 10. Exhibit "A."

The project as outlined is primarily a production preparation operation. A certain amount of the stripping is undoubtedly exploration but as described by Reid, "for a distance of 300 to 400 feet, 50 to 60 feet wide + 30 to 50 feet deep," & to dispose of previous shallow workings it is apparently to prepare for production. No particular area of attack is mentioned.

The field team should determine whether or not the exploration value of this work is sufficient to warrant assistance, also whether this method the best one to use for exploration.

Section 11 - Exhibit B

Nothing is said of the possible need of new construction so it is assumed none is needed.

Section 12. Exhibit "C."

The expenditures requested for equipment are excessive for the exploration work to be done. Only bulldozing is ~~done~~ mentioned to be carried out & this would not require the compressor & drilling equipment. Likewise the purchase of a truck should not be necessary in the early stages of the program. The explosive expenditure is also excessive

The field team should consider just what equipment will be required for a proper exploration project.

(2)
6/29/51

DMA 1714X

Section 13 Exhibit "D"

The labor force listed is excessive for an exploration project of this nature. With only 3 manual workers both a superintendent & a foreman are not needed, likewise a bookkeeper is not a proper classification on an exploration project. In the early stages only a couple of laborers would be needed & in addition to the bulldozer operation. One foreman or superintendent, also to work as needed, should suffice for supervision. The wages quoted are reasonable

This question should be discussed by the field team with the applicant.

Section 14- Exhibit "E"

The use of the building on the property + its need of repair can be determined by the field team.

Section 16- Recommendations.

This application should be referred to the field team to determine its exploratory value, how much of the equipment & labor will be required for that phase of the program & whether the property is likely to produce strategic mica or not.

The difference between exploration & preparation for production should be explained to the applicant + the application modified to eliminate the latter type of work

DMP

FILE COPY
SURNAME

Barr
McNaughton for
Moore

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

G.E.C.

JUL 5 1951

L.D. Bryson, Jr.
Franklin
North Carolina

not stripped in P&R

Subject: DMA-17141; Mica

Dear Mr. Bryson:

Your application is being referred to Mr. Robert Laurence Rose 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

RWimas July 3, 1951

cc: Mr. Strobel
Mr. Barr
Field Team Region VII (2)
DMA Files

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1714X

Commodity Strategic Mica

Total Amount $23,715.00

Govt. Participation 90%

1. Name and Address of Applicant T D Byson, Jr, Franklin, N. Carolina

2. Location of Property Tomotla mt. nr Franklin, Macon County N. Carolina

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 Applicant has mapped up exploration

b) Poor with development. The previous mica produced

c) None from this mine was of fairly good quality. Estimated production in

d) Don't know—needs field examination much too high. Yes - To field JAR 6/29/51

Is there an alternative and favorable project? also amount of sheet + punch recovered (actually less than 10% from mine run. is too high. Probably

(If so, attach an explanation) all of first 100 feet of depth of the mine has been worked out. - JR

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

6. If applicant is a lessee, is a copy of the lease attached? No owner

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

*question numbers are those of MF-103

7. Are subordination agreements necessary? Probably Not -

a) MF-201? Not required but probably [illegible]

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 - all must be purchased or rented
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes - electric power line within 1 mi. 4 - gasoline diesel engines

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes - in general business + plans to have operating foreman

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? - Stripping of overburden Yes - other work production

If not, what part of it is? No information on area to be stripped but this portion of program "exploration". As outlined by Reid much of stripping will go beyond exploration. Cut-off of exploration should be estimated.

Is this part a worthwhile exploration project? unknown

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? None given

f) Should more information be requested from applicant? Yes. by field team

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

11. Exhibit B (question 23-d)*

a) Is it applicable? No information —

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes

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

a) Is it applicable? Yes —

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Billing expense — Trust [illegible] other items reasonable

d) Is a field check needed? Yes

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

a) Are there sufficient data? No

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

c) Is the schedule excessive for the work proposed? Yes — [illegible] Supt [illegible]

d) Are the proposed wages and salaries reasonable? Yes —

e) Is a field check needed? Yes —

14. Exhibit E (question 23-c)*

a) Is it applicable? No -

b) Sufficient data? No - building on property but possible repairs indicated not

c) Reasonable? ——

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Exploration phase - probably 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? The amount of stripping which is properly exploration should be determined & the program revised accordingly. The exploration value of the project should be studied. The latest equipment needs should be checked with applicant.

Daily production figures are too high, Proposed exploration work may not be best for mine conditions. Check on how much and to what depth present workings and stripes extend. See if possible reserves will warrant exploration.

Reviewed by: Roscoe McCarty 6/4/57
J Reddem USGS 6/29/57

Date 6/29/57

97692

6/27/58

Docket No - DMA 1714X

Section 10. Exhibit "A"

The project as outlined is primarily a production preparation operation. A certain amount of the stripping is undoubtedly exploration but as described by Reid, "for a distance of 300 to 400 feet, 50 to 60 feet wide + 30 to 50 feet deep", + to dispose of previous shallow workings it is apparently to prepare for production. No particular area of attack is mentioned.

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Section 11 - Exhibit B

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Section 12 Exhibit "C"

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The field team should consider just what equipment will be required for a proper exploration project.

① 6/29/51

DMA 1714X

Section 13 Exhibit "D"

The labor force listed is excessive for an exploration project of this nature. With only 3 manual workers both a superintendent & a foreman are not needed, likewise a bookkeeper is not a proper classification on an exploration project. In the early stages only a couple of laborers would be needed & in addition to the bulldozer operator. One foreman or superintendent, also to work as needed should suffice for supervision. The wages quoted are reasonable.

This question should be discussed by the field team with the applicant.

Section 14- Exhibit "E"

The use of the building on the property + its need of repair can be determined by the field team.

Section 16- Recommendations.

This application should be referred to the field team to determine its exploratory value, how much of the equipment & labor will be required for that phase of the program & whether the property is likely to produce strategic ores or not.

The difference between exploration & preparation for production should be explained to the applicant + the application modified to eliminate the latter type of work.

DMP

FILE COPY
SURNAME

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

June 21, 1951

Mr. T. D. Bryson, Jr.
Franklin
North Carolina

Subject: DMA-1714X
Re: Exploration Loan -
Lyle Knob

My dear Mr. Bryson:

Receipt is acknowledged of your application and attachments of June 12, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1714X and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 19, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1714X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
✓ File
Barr
Lyon

DMA 1714

856

June 21, 1951

Mr. T. D. Bryson, Jr.
Franklin
North Carolina

Subject: DMA-1714X
Re: Exploration Loan -
Lyle Knob

My dear Mr. Bryson:

Receipt is acknowledged of your application and attachments of June 12, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1714X and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 19, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1714X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
✓Barr
Lyon

MF-103

1. Applicant is an individual.
6. None.
9. Applicant will invest 10% of costs.
20. Strategic mica.
21. See answer 13, form 100 .
23. See answer 16, form 100.

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

Assets

Real property:	
276 acres	$15,000.00
2/7th interest 75 acres	10,000.00
Cash	535.00
Auto	1,500.00
Professional equipment	5,000.00
Other personal property	1,500.00
	$33,535.00

Liabilities

Mortgage on home not included in above	3,000.00
Miscellaneous	1,500.00
	$4,500.00

10. (a). Description of property involved in the exploration project.

In Macon County, North Carolina, adjoining Mason, et al, BEGINNING at a hickory on top of the mountain near Miller Gap, a corner of the J. M. Dalton heir's land, also a corner of Lyle Knob tract, State Grant No. 3022, and runs with Dalton's line N. 26 E. 12 poles to a walnut (now down) in field; N. 61 W. 46 poles to a chestnut oak stump; S. 24 W. 3½ poles to a stake, SE corner of old James Raby tract of land; then with said line N. 87 W. 85 poles to a stake, SW corner of said tract; N. 3 E. 25 poles to a stake in line of said tract; N. 88 W 43 poles to a stake on top of the ridge; N. 2 E. 31 poles to a stake on top of the ridge; N. 87½ W. 62 poles to a hickory in a hollow, corner of Hester Welch's land; N. 75 W. 8 poles to a large hickory, corner of Hester Welch's land, also the NW corner of State Grant No. 3022; S 2 W. 78 poles to a stake in N boundary line of Section 106; N. 87 W ½ pole to a stake, the NW corner of Section 106; then running with Hester Welch's and James Mason's line from the large hickory mentioned above; then still with James Mason's line and the line of Section 106, S. 3 W. 60 poles to a stake in the line of Section 106 and James Mason's corner; then still with James Mason's line N. 87 W. 40 poles to a stake near old road leading to Lyle Knob; then still with James Mason's line S. 3 W. 60 poles to a stake replacing a chestnut, John H. Dalton's corner of State Grant No. 2447 and passing a black gum, an old corner of the Jane Mason land, now a corner of John H. Dalton and James Mason; then S. 87 E. 48 poles to a stake replacing a black oak, old corner of Grant No. 2447 and Grant No. 3022; then with the line of Grant No. 3022 and the Cowee and Millshoal Township lines to the beginning. Containing 276 acres more or less.

(b) See answer to 10 (a) above. Property is the same.

FORM MF- 103

APPLICATION OF: T. D. BRYSON, FRANKLIN, NORTH CAROLINA

STATEMENT OF:

A. W. REID - PRACTICAL GEOLOGIST AND MINING ENGINEER

Applicant's property is situated within the main Mica Lead of Western North Carolina, which has always been highly productive of strategic ruby mica. In this particular property there are several veins which have been worked intermittently during the past 50 to 60 years; producing only high quality ruby mica. The past workings were all by hand methods which resulted in the digging of numerous low tunnels, shafts, drifts, etc., which are now detrimental to future and profitable operation. By removing all overburden and debris this mine can be established in such manner as to release quantities not less than herein stated.

Exploratory work will be conducted to expose veins for open-cut mine; initially for a distance of 300 to 400 feet, 50 to 60 feet wide, and 30 to 50 feet deep. This will dispose of all previous, shallow, and hazardous workings to insure safe, economical operation in the future.

I know this mine intimately and have operated it on occasions over the past 25 years. During the last 6 months of World War II, I sold approximately $22,000.00 worth of high grade ruby mica from this mine to the Colonial Mica Corporation.

I recommend that the exploratory work proceed as outlined.

A. W. Reid

A. W. REID
LOCAL MINING COMMITTEE

Form MF-100
(March 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-1714X

Date received 6/18/51

T. D. BRYSON, JR.,
FRANKLIN, N. C.

Name and address of applicant

Date June 12, 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) Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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.

5 GENERAL TECHNICAL DATA

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

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

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

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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:

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-100

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

1. Materials Produced:
   (a) Strategic Mica.
   (b) Feldspar and scrap mica.

2. Name of mine " Lyle Knob "
   Extent of workings.
   (a) Waher hole shaft 150 feet
   (b) None
   (c) 1. Bonesteel tunnell 200 feet
       2. Siphon hole 50 feet
       3. Buttermilk tunnell 50 feet

Note These tunnells or shafts were driven in previous operations dating back as much as 50 years.

   (d) Approximately 100 feet.

Note The water hole shaft (a above) is now flooded however pumping will not be necessary as drainage can be effected by a tap from the Bonesteel Tunnell (C 1 above).

3. The mines are located 5miles north of Franklin, N. C.

4. (a) Not now being operated.
   (b) Proposed to be explored and operated by owner.

5. The mines on this property have been opebated intermittently when economically feasible but not in recent years owing to high cost of operation and low price for product thus making operation economically impractical. This property while at times in previous operations has produced mica in large quantities has never been properly opened or operated but with sufficient capital for proper exploration and operation should become a large producer.
Exploration and operation cab begin as soon as sufficient capital and equipment can be secured.

6. Applicant has been a practicing attorney since 1925 and in connection with his practice has had extensive experiecne with mining operations. Applicant has had at leadt five years actual experience in mining. Applicant proposes to supervise the operation and handle all business connected therewith. Applicant proposes to employ as foreman a man who has had wide experience with tunnel work, grading, excavation and open cut mining.

7. (a) See answer to question 5. One year ago in an attempt to locate a deposit of feldspar on the property and to ascertain if it was present in commercial quantities over 4,000 pounds of strategic mica was taken from the Bonesteel tunnell within a period of two weeks.
   (b) This property is located almost in the exact center of the main mica lead of Western North Carolina. In the past several important mines whthin a short distance of this property have produced large quantities of high quality mica.

(c) Other than work done on the property previously there are no reports applying to this property.

12. From the past history of these mining prospects it is conservatively estimated, provided sufficient capital and equipment is available, that they should produce at least 1,000 pounds of block mica per day; the quality of the mica is such that of the 1,000 pounds at least 400 pounds of punch and pattern mica would be worked out.

While it is impossible to determine the total reserves, it is estimated that thir operation should provide sufficient mica to continue operations for not less than 10 years at the above rate.

The applicant proposes to remove the overburden from the vein, the location of which with regard to the surface, makes this type of operation practical and thereafter to operate same by open cut methods thereby permitting continuous operation with minimum problem of drainage, timbering,pumping and hoisting. It is estimated that the exploration can be completed in approximately 90 working days.

13. An all weather road, State maintained, is within one-fourth mile of the property. This road leads to a hard surfaced highway located within one mile of the property. There is a road leading into the property from the end of the State maintained road and a small amount of work could put it in excellent condition.

14. Sufficient water for all purposes available on property.

15. Power line within one-fourth mile of property.

16. It is estimated that the exploration can be completed within 90 working days. All figures for labor and equipment are based on this period.

<u>Labor</u>				
1 Superintendant	@ $25.00	per	day	$2,250.00
1 Foreman	@ $15.00	"	"	1,350.00
1 Driller	@ $12.00	"	"	1,080.00
2 Muckers	@ $8.00	"	"	1,440.00
1 Bookkeeper	@ $8.00	"	"	720.00
			Total	$6,840.00

<u>Equipment</u>	
1 Bulldozer rental @ $12.00 per hr.	$8,640.00
1 light truck	1,750.00
1 Air compressor	3,170.00
2 Jack Hammers	690.00
Air hose, drill steel, drill bits, etc.	500.00
Explosives, fuse, caps, etc. at $12.50 per day	1,125.00
Gas and oil @ $7.50 per day	675.00
Insurance and taxes	375.00
Total	$16,925.00

It is suggested that it might be more practical to purchase a bulldozer rather than operate one on a rental basis for the reason that if the exploration was not successful there would be the salvage value of the machine remaining to off set the advance.

17. Building now on property sufficient for needs of exploration.
18. According to M. O. 5 revised the answers to the above are all that are required.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By [signature] (Signature of authorized official)

June 12, 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-1714 X

Date received 6/18/51

Participation

T. D. Bryson, Jr.,
Franklin, N. C.

Name and address of applicant

Date June 12, 1951

FILL IN THIS BLOCK

Date of application June 12, 1951

Estimated cost $23,765.00

Mineral or metal mineral

Percentage of Government participation 90

Location of mine 5 miles north of Franklin, N. C.

Date of filing MF-100

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.

T. D. Bryson, Jr. (Name of company)

By T. D. Bryson Jr. (Signature of authorized official)

June 12, 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

Q. & C

UNITED STATES

DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 20 1951
LANDON F. SPRAGUE
Executive Secretary

DEFENSE MINERALS ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-1714X, Lyle Knob Mine

T. D. Bryson, Jr., Macon County, N. C.

By

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

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

July 13, 1951

Report of Field Examination on

DMA-1714X, Lyle Knob Mine
T. D. Bryson, Jr. Macon Co.
North Carolina

July 13, 1951

This mine, located 5 miles north of Franklin, N. C. (Green Creek, N. C. 166-SE, southwest corner) has been operated at various intervals for the past 50 years. Both sheet and scrap mica has been produced, resulting in extensive underground openings in the pegmatite. Sheet mica is exposed in several headings in the accessible adits, thus it appears to the Field Team that the deposit is well developed and as such does not qualify for an exploration loan.

The proposed stripping by bulldozer was to be directed mainly towards the production of scrap mica ore. Furthermore, it appears to the Field Team that the soft weathered overburden over the pegmatite extends to only 15 to 20 feet in depth and after that depth is reached, removal of rock over the pegmatite would be essentially a hard rock quarrying operation.

a.s.e.

JUL 5 1951

T.D. Bryson, Jr.
Franklin
North Carolina

Subject: DEA-1714; [illegible]

Dear Mr. Bryson:

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

Sincerely yours,

[illegible], Director
Drug Enforcement

RW:mas July 3, 1951

cc: Mr. Strobel
Mr. Barr
Field Team Region VII (2)
DEA Files

June 21, 1951

Mr. T. D. Bryson, Jr.
Franklin
North Carolina

Subject: DMA-171kX
Re: Exploration Loan -
Lyle Knob

My dear Mr. Bryson:

Receipt is acknowledged of your application and attachments of June 12, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-171kX and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 19, 1951.

In any future correspondence relating to your application, kindly refer to DMA-171kX.

Sincerely yours,

LANDON F. STR[illegible]

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
Barr
Lyon

UNITED STATES

DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEPARTMENT OF T...
Defense Minerals ...
RECEIVED
JUL 20 1951
LANDON E. SIMMER
Executive Secretary

DEFENSE MINERALS ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMA-1714X, Lyle Knob Mine

T. D. Bryson, Jr. Macon County, N. C.

By

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

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

July 13, 1951

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T. D. Bryson, Jr. Macon Co.
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July 13, 1951

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6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA- 1714X

Commodity Strategic Mica

Total Amount $23,765.00

Govt. Participation 90%

1. Name and Address of Applicant T. D. Bryson, Jr.,
Franklin, No. Carolina

2. Location of Property 5 miles north of Franklin, Macon County,
North Carolina

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 Applicant has moved up exploration

b) Poor with development. The previous mica produced

c) None from the mine was of fairly good quality. Estimated production is

d) Don't know—needs field examination Yes - to field much too high. Actually less than 10% from mine run. JAP 6/29/51

e) Is there an alternative and favorable project? also amount of sheet + punch recovered
(If so, attach an explanation) is too high. Probably all of first 100 feet of depth of the mine has been worked out. JAP

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

6. If applicant is a lessee, is a copy of the lease attached? No-owner

Does the lease have sufficient time to run to cover a future

productive period? ——

*question numbers are those of MF-103

7. Are subordination agreements necessary? Probably Not-

a) MF-201? ~~Probably not required but no definite statement regarding encumbrances~~ Not required

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 - all must be purchased or rented
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes - electric power line within 1/4 mi. Use gasoline or diesel engines

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes - in general business + plans to hire operating foreman

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? - Stripping of overburden - Yes - other work production

If not, what part of it is? No information on area to be stripped but this portion of program "exploration". As outlined by Reid much of stripping will go beyond "exploration". Cut-off of exploration should be estimated.

Is this part a worthwhile exploration project? unknown

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? None given

f) Should more information be requested from applicant? Yes - by field team

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

11. Exhibit B (question 23-d)*

a) Is it applicable? No information —

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes

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

a) Is it applicable? Yes -

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Bulldozer excessive. - Truck not needed. - other items reasonable

d) Is a field check needed? Yes

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

a) Are there sufficient data? No

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

c) Is the schedule excessive for the work proposed? Yes - too many men Supt. + Bookkeeper not needed.

d) Are the proposed wages and salaries reasonable? Yes -

e) Is a field check needed? Yes -

14. Exhibit E (question 23-c)*

a) Is it applicable? No-

b) Sufficient data? No- building on property but possible repairs indicated not?

c) Reasonable? ——

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Exploration phase-probably 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? The amount of stripping which is property exploration should be determined & the program revised accordingly. The exploration value of the project should be studied. The labor & equipment needs should be discussed with applicant

Daily production figures are too high. Proposed exploration work may not be best for mine conditions - Check on how much & to what depth open workings and stopes extend - See if possible reserves will warrant exploration.

Reviewed by: Roscoe M Bunty B/M

J R Miller USGS 6/29/51

Date 6/29/51.

97692

6/29/59

Docket No - DMA 1714X

Section 10. Exhibit "A."

The project as outlined is primarily a production preparation operation. A certain amount of the stripping is undoubtedly exploration but as described by Reid, "for a distance of 300 to 400 feet, 50 to 60 feet wide + 20 to 50 feet deep;" & to dispose of previous shallow workings it is apparently to prepare for production. No particular area of attack is mentioned.

The field team should determine whether or not the exploration value of this work is sufficient to warrant assistance, also whether this method the best one to use for exploration.

Section 11 - Exhibit B

Nothing is said of the possible need of new construction so it is assumed none is needed.

Section 12. Exhibit "C."

The expenditures requested for equipment are excessive for the exploration work to be done. Only bulldozing is ~~does~~ mentioned to be carried out & this would not require the compressor & drilling equipment. Likewise the purchase of a truck should not be necessary in the early stages of the program. The explosive expenditure is also excessive.

The field team should consider just what equipment will be required for a proper exploration project.

(D) 15/5/79

DMA 1714X

Section 13 Exhibit "D"

The labor force listed is excessive for an exploration project of this nature. With only 3 manual workers both a superintendent & a foreman are not needed, likewise a bookkeeper is not a proper classification on an exploration project. In the early stages only a couple of laborers would be needed in addition to the bulldozer operator. One foreman or superintendent, also to work as needed, should suffice for supervision. The wages quoted are reasonable

This question should be discussed by the field team with the applicant.

Section 14- Exhibit "E"

The use of the building on the property & its need of repair can be determined by the field team.

Section 16- Recommendations.

This application should be referred to the field team to determine its exploratory value, how much of the equipment & labor will be required for that phase of the program & whether the property is likely to produce strategic mica or not.

The difference between exploration & preparation for production should be explained to the applicant & the application modified to eliminate the latter type of work

DMB

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Room 13, Post Office Building
Knoxville 01, Tennessee

July 19, 1951

Registered Mail

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 20 1951
Executive Secretary

Memorandum

To: Mr. Tom Lyon
Chairman, Coordinating Committee
Defense Minerals Administration

From: Field Team, Region VII

Subject: DMA-1714X, T. D. Bryson, Jr.

Transmitted herewith are four copies of the field examination report on the above-designated application, recommending denial of the application.

The difference between exploration and development was explained to the applicant. He was given Form MF-102 and will probably apply for a loan to develop and operate this mine.

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

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

Enclosure

Form MF-100
(March 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 - 1714X

Date received 6/18/51

T. D. DRYSOT, JR.,
FRANKLIN, N. C.

Name and address of applicant

Date June 12, 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) Necessity Certificate pursuant to the provisions of Sec. 124 (A) (Amortization) [illegible] priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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.

5 GENERAL TECHNICAL DATA

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

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

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

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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:

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-100

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

1. Materials Produced:
   (a) Strategic Mica.
   (b) Feldspan and scrap mica.

2. Name of mine " Lyle Knob "
   Extent of workings.
   (a) Waher hole shaft 150 feet
   (b) None
   (c) 1. Bonesteel tunnell 200 feet
       2. Siphon hole 50 feet
       3. Buttermilk tunnell 50 feet

Note These tunnells or shafts were driven in previous operations dating back as much as 50 years.

   (d) Approximately 100 feet.

Note The water hole shaft (a above) is now flooded however pumping will not be necessary as drainage can be effected by a tap from the Bonesteel Tunnell (C 1 above).

3. The mines are located 5miles north of Franklin, N. C.
4. (a) Not no,, being operated.
   (b) Proposed to be explored and operated by owner.
5. The mines on this property have been operated intermittently when economically feasible but not in recent years owing to high cost of operation and low price for product thus making operation economically impractical. This property while at times in previous operations has produced mica in large quantities has never been properly opened or operated but with sufficient capital for proper exploration and operation should become a large producer.
Exploration and operation cab begin as soon as sufficient capital and equipment can be secured.
6. Applicant has been a practicing attorney since 1925 and in connection with his practice has had extensive experiecne with mining operations. Applicant has had at leadt five years actual experience in mining. Applicant proposes to supervise the operation and handle all business connected therewith. Applicant proposes to employ as foreman a man who has had wide experience with tunnel work, grading, excavation and open cut mining.
7. (a) See answer to question 5. One year ago in an attempt to locate a deposit of feldspar on the property and to ascertain if it was present in commercial quantities over 4,000 pounds of strategic mica was taken from the Bonesteel tunnell within a period of two weeks.
   (b) This property is located almost in the exact center of the main mica lead of Western North Carolina. In the past several important mines whthin a short distance of this property have produced large quantities of high quality mica.

(c) Other than work done on the property previously there are no reports applying to this property.

12. From the past history of these mining prospects it is conservatively estimated, provided sufficient capital and equipment is available, that they should produce at least 1,000 pounds of block mica per day; the quality of the mica is such that of the 1,000 pounds at least 400 pounds of punch and pattern mica would be worked out.

While it is impossible to determine the total reserves, it is estimated that thir operation should provide sufficient mica to continue operations for not less than 10 years at the above rate.

The applicant proposes to remove the overburden from the vein, the location of which with regard to the surface, makes this type of operation practical and thereafter to operate same by open cut methods thereby permitting continuous operation with minimum problem of drainage, timbering, pumping and hoisting. It is estimated that the exploration can be completed in approximately 90 working days.

13. An all weather road, State maintained, is within one-fourth mile of the property. This road leads to a hard surfaced highway located within one mile of the property. There is a road leading into the property from the end of the State maintained road and a small amount of work could put it in excellent condition.

14. Sufficient water for all purposes available on property.

15. Power line within one-fourth mile of property.

16. It is estimated that the exploration can be completed within 90 working days. All figures for labor and equipment are based on this period.

Labor				
1 Superintendant	@ $25.00	per	day	$2,250.00
1 Foreman	@ $15.00	"	"	1,350.00
1 Driller	@ $12.00	"	"	1,080.00
2 Muckers	@ $8.00	"	"	1,440.00
1 Bookkeeper	@ $8.00	"	"	720.00
			Total	$6,840.00

Equipment	
1 Bulldozer rental @ $12.00 per hr.	$8,640.00
1 light truck	1,750.00
1 Air compressor	3,170.00
2 Jack Hammers	690.00
Air hose, drill steel, drill bits, etc.	500.00
Explosives, fuse, caps, etc. at $12.50 per day	1,125.00
Gas and oil @ $7.50 per day	675.00
Insurance and taxes	375.00
Total	$16,925.00

It is suggested that it might be more practical to purchase a bulldozer rather than operate one on a rental basis for the reason that if the exploration was not successful there would be the salvage value of the machine remaining to off set the advance.

17. Building now on property sufficient for needs of exploration.
18. Accodring to M. O. 5 revised the answers to the above are all that are required.

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-1714X

Date received 6/18/51

Participation

T. D. Bryson, Jr.,
Franklin, N. C.

Name and address of applicant

Date June 12, 1951

FILL IN THIS BLOCK

Date of application June 12, 1951

Estimated cost $23,765.00

Mineral or metal mineral

Percentage of Government participation 90

Location of mine 5 miles north of Franklin, N. C.

Date of filing MF-100

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.

T. D. Bryson, Jr. (Name of company)

By T. D. Bryson Jr. (Signature of authorized official)

June 12, 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

1. Applicant is an individual.
6. None.
9. Applicant will invest 10% of costs.
20. Strategic mica.
21. See answer 13, form 100 .
23. See answer 16, form 100.

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

Assets

Real property:	
276 acres	$15,000.00
2/7th interest 75 acres	10,000.00
Cash	535.00
Auto	1,500.00
Professional equipment	5,000.00
Other personal property	1,500.00
	$33,535.00

Liabilities

Mortgage on home not included in above	3,000.00
Miscellaneous	1,500.00
	$4,500.00

(*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:

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 x (Signature of authorized official)

June 12, 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

10. (a). Description of property involved in the exploration project.

In Macon County, North Carolina, adjoining Mason, et al, BEGINNING at a hickory on top of the mountain near Miller Gap, a corner of the J. M. Dalton heir's land, also a corner of Lyle Knob tract, State Grant No. 3022, and runs with Dalton's line N. 26 E. 12 poles to a walnut (new down) in field; N. 61 W. 46 poles to a chestnut oak stump; S. 24 W. 3½ poles to a stake, SE corner of old James Raby tract of land; then with said line N. 87 W. 85 poles to a stake, S[illegible] corner of said tract; N. 3 E. 25 poles to a stake in line of said tract; N. 88 W 43 poles to a stake on top of the ridge; N. 2 E. 31 poles to a stake on top of the ridge; N. 87½ W. 62 poles to a hickory in a hollow, corner of Hester Welch's land; N. 75 W. 8 poles to a large hickory, corner of Hester Welch's land, also the NW corner of State Grant No. 3022; S 2 W. 78 poles to a stake in N boundary line of Section 106; N. 87 W ½ pole to a stake, the NW corner of Section 106; then running with Hester Welch's and James Mason's line from the large hickory mentioned above; then still with James Mason's line and the line of Section 106, S. 3 W. 60 poles to a stake in the line of Section 106 and James Mason's corner; then still with James Mason's line N. 87 W. 40 poles to a stake near old road leading to Lyle Knob; then still with James Mason's line S. 3 W. 60 poles to a stake replacing a chestnut, John H. Dalton's corner of State Grant No. 2447 and passing a blac[illegible] gum, an old corner of the Jane Mason land, now a corner of John H. Dalton and James Mason; then S. 87 E. 48 poles to a stake replacing a black oak, old corner of Grant No. 2447 and Grant No. 3022; then with the line of Grant No. 3022 and the Cowee and Millshoal Township lines to the beginning. Containing 276 acres more or less.

(b) See answer to 10 (a) above. Property is the same.

FORM MF- 103

APPLICATION OF: T. D. BRYSON, FRANKLIN, NORTH CAROLINA

STATEMENT OF:

A. W. REID - PRACTICAL GEOLOGIST AND MINING ENGINEER

Applicant's property is situated within the main Mica Lead of Western North Carolina, which has always been highly productive of strategic ruby mica. In this particular property there are several veins which have been worked intermittently during the past 50 to 60 years; producing only high quality ruby mica. The past workings were all by hand methods which resulted in the digging of numerous low tunnels, shafts, drifts, etc., which are now detrimental to future and profitable operation. By removing all overburden and debris this mine can be established in such manner as to release quantities not less than herein stated.

Exploratory work will be conducted to expose veins for open-cut mine; initially for a distance of 300 to 400 feet, 50 to 60 feet wide, and 30 to 50 feet deep. This will dispose of all previous, shallow, and hazardous workings to insure safe, economical operation in the future.

I know this mine intimately and have operated it on occasions over the past 25 years. During the last 6 months of World War II, I sold approximately $22,000.00 worth of high grade ruby mica from this mine to the Colonial Mica Corporation.

I recommend that the exploratory work proceed as outlined.

A. W. Reid

A. W. REID

LOCAL MINING COMMITTEE

Form MF-100
(March 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-1714X

Date received 6/18/51

[illegible]

Name and address of applicant

Date June 10, 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) ~~Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization)~~ 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.

5 GENERAL TECHNICAL DATA

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

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

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

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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:

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-100

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

1. Materials Produced:
   (a) Strategic Mica.
   (b) Feldspan and scrap mica.

2. Name of mine " Lyle Knob "
   Extent of workings.
   (a) Water hole shaft 150 feet
   (b) None
   (c) 1. Bonesteel tunnell 200 feet
       2. Siphon hole 50 feet
       3. Buttermilk tunnell 50 feet

Note These tunnells or shafts were driven in previous operations dating back as much as 50 years.
   (d) Approximately 100 feet.

Note. The water hole shaft (a above) is now flooded however pumping will not be necessary as drainage can be effected by a tap from the Bonesteel Tunnell (C 1 above).

3. The mines are located 5miles north of Franklin, N. C.

4. (a) Not now being operated.
   (b) Proposed to be explored and operated by owner.

5. The mines on this property have been opehated intermittently when economically feasible but not in recent years owing to high cost of operation and low price for product thus making operation economically impractical. This property while at times in previous operations has produced mica in large quantities has never been properly opened or operated but with sufficient capital for proper exploration and operation should become a large producer.
Exploration and operation cab begin as soon as sufficient capital and equipment can be secured.

6. Applicant has been a practicing atterney since 1925 and in connection with his practice has had extensive experiecne with mining operations. Applicant has had at leadt five years actual experience in mining. Applicant proposes to supervise the operation and handle all business connected therewith. Applicant proposes to employ as foreman a man who has had wide experience with tunnel work, grading, excavation and open cut mining.

7. (a) See answer to question 5. One year ago in an attempt to locate a deposit of feldspar on the property and to ascertain if it was present in commercial quantities over 4,000 pounds of strategic mica was taken from the Bonesteel tunnell within a period of two weeks.
   (b) This property is located almost in the exact center of the main mica lead of Western North Carolina. In the past several important mines within a short distance of this property have produced large quantities of high quality mica.

(c) Other than work done on the property previously there are no reports applying to this property.

12. From the past history of these mining prospects it is conservatively estimated, provided sufficient capital and equipment is available, that they should produce at least 1,000 pounds of block mica per day; the quality of the mica is such that of the 1,000 pounds at least 400 pounds of punch and pattern mica would be worked out.

While it is impossible to determine the total reserves, it is estimated that their operation should provide sufficient mica to continue operations for not less than 10 years at the above rate.

The applicant proposes to remove the overburden from the vein, the location of which with regard to the surface, makes this type of operation practical and thereafter to operate same by open cut methods thereby permitting continuous operation with minimum problem of drainage, timbering, pumping and hoisting. It is estimated that the exploration can be completed in approximately 90 working days.

13. An all weather road, State maintained, is within one-fourth mile of the property. This road leads to a hard surfaced highway located within one mile of the property. There is a road leading into the property from the end of the State maintained road and a small amount of work could put it in excellent condition.

14. Sufficient water for all purposes available on property.

15. Power line within one-fourth mile of property.

16. It is estimated that the exploration can be completed within 90 working days. All figures for labor and equipment are based on this period.

Labor				
1 Superintendant	@ $25.00	per	day	$2,250.00
1 Foreman	@ $15.00	"	"	1,350.00
1 Driller	@ $12.00	"	"	1,080.00
2 Muckers	@ $8.00	"	"	1,440.00
1 Bookkeeper	@ $8.00	"	"	720.00
			Total	$6,840.00

Equipment	
1 Bulldozer rental @ $12.00 per hr.	$8,640.00
1 light truck	1,750.00
1 Air compressor	3,170.00
2 Jack Hammers	690.00
Air hose, drill steel, drill bits, etc.	500.00
Explosives, fuse, caps, etc. at $12.50 per day	1,125.00
Gas and oil @ $7.50 per day	675.00
Insurance and taxes	375.00
Total	$16,925.00

It is suggested that it might be more practical to purchase a bulldozer rather than operate one on a rental basis for the reason that if the exploration was not successful there would be the salvage value of the machine remaining to off set the advance.

17. Building now on property sufficient for needs of exploration.
18. According to M. O. 5 revised the answers to the above are all that are required.

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-1714 X

Date received 6/18/51

Participation

T. D. Bryson, Jr.,
Franklin, N. C.

Name and address of applicant

Date June 12, 1951

FILL IN THIS BLOCK

Date of application June 12, 1951

Estimated cost $23,765.00

Mineral or metal mineral

Percentage of Government participation 90

Location of mine 5 miles north of Franklin, N. C.

Date of filing MF-100

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.

T. D. Bryson, Jr. (Name of company) — By T D Bryson Jr. (Signature of authorized official)

June 12, 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

MP-103

1. Applicant is an individual.
6. None.
9. Applicant will invest 10% of costs.
20. Strategic mica.
21. See answer 13, form 100 .
23. See answer 16, form 100.

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

Assets

Real property:	
276 acres	$15,000.00
2/7th interest 75 acres	10,000.00
Cash	535.00
Auto	1,500.00
Professional equipment	5,000.00
Other personal property	1,500.00
	$33,535.00

Liabilities

Mortgage on home not included in above	3,000.00
Miscellaneous	1,500.00
	$4,500.00

(*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:

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 F D Kruger Jr
(Signature of authorized official)

June 12, 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

10. (a). Description of property involved in the exploration project.

In Macon County, North Carolina, adjoining Mason, et al, BEGINNING at a hickory on top of the mountain near Miller Gap, a corner of the J. H. Dalton Heir's land, also a corner of Lyle Knob tract, State Grant No. 3022, and runs with Dalton's line N. 26 E. 12 poles to a walnut (new down) in field; N. 61 W. 46 poles to a chestnut oak stump; S. 24 W. 3[illegible] poles to a stake, [illegible] corner of old James Raby tract of land; then with said line N. 87 W. 89 poles to a stake, [illegible] corner of said tract; N. 3 E. 25 poles to a stake in line of said tract; N. 88 W. 43 poles to a stake on top of the ridge; N. 2 E. 31 poles to a stake on top of the ridge; N. 87½ W. 62 poles to a hickory in a hollow, corner of Hester Welch's land; N. 75 W. 8 poles to a large hickory, corner of Hester Welch's land, also the [illegible] corner of State Grant No. 3022; S. 3 E. W. 78 poles to a stake in N boundary line of Section 106; N. 87 W. [illegible] pole to a stake, the [illegible] corner of Section 106; then running with Hester Welch's and James Mason's line from the large hickory mentioned above; then still with James Mason's line and the line of Section 106, S. 3 E. 60 poles to a stake in the line of Section 106 and James Mason's corner; then still with James Mason's line N. 87 W. 40 poles to a stake near old road leading to Lyle Knob; then still with James Mason's line S. 3 W. 60 poles to a stake replacing a chestnut, John H. Dalton's corner of State Grant No. 2447 and passing a black gum, an old corner of the Jane Mason land, now a corner of John H. Dalton and James Mason; then S. 87 E. 48 poles to a stake replacing a black oak, old corner of Grant No. 2447 and Grant No. 3022; then with the line of Grant No. 3022 and the Cowee and Millshoal Township lines to the beginning. Containing 276 acres more or less.

(b) See answer to 10 (a) above. Property is the same.

FORM MF- 103

APPLICATION OF: T. D. BRYSON, FRANKLIN, NORTH CAROLINA

STATEMENT OF:

A. W. REID - PRACTICAL GEOLOGIST AND MINING ENGINEER

Applicant's property is situated within the main Mica Lead of Western North Carolina, which has always been highly productive of strategic ruby mica. In this particular property there are several veins which have been worked intermittently during the past 50 to 60 years; producing only high quality ruby mica. The past workings were all by hand methods which resulted in the digging of numerous low tunnels, shafts, drifts, etc., which are now detrimental to future and profitable operation. By removing all overburden and debris this mine can be established in such manner as to release quantities not less than herein stated.

Exploratory work will be conducted to expose veins for open-cut mine; initially for a distance of 300 to 400 feet, 50 to 60 feet wide, and 30 to 50 feet deep. This will dispose of all previous, shallow, and hazardous workings to insure safe, economical operation in the future.

I know this mine intimately and have operated it on occasions over the past 25 years. During the last 6 months of World War II, I sold approximately $22,000.00 worth of high grade ruby mica from this mine to the Colonial Mica Corporation.

I recommend that the exploratory work proceed as outlined.

A. W. Reid

A. W. REID

Form MF-100
(March 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-1714X

Date received 6/18/51

T. D. B

Name and address of applicant

Date

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) ~~Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of the Internal Revenue Code, (5)~~ priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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.

5 GENERAL TECHNICAL DATA

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

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

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

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

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

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

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:

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 an available report on the geology and ore reserves.

Form [illegible]-100

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

1. Materials produced:
   (a) Strategic mica.
   (b) Feldspar and scrap mica.

2. Name of mine " Lyle Knob "
   Extent of workings.
   (a) Water hole shaft 150 feet
   (b) None
   (c) 1. Ponesteel tunnell 200 feet
       2. Siphon hole 40 feet
       3. Buttermilk tunnell 50 feet

Note These tunnells or shafts were driven in previous operations dating back as much as 20 years.

   (d) Approximately 100 feet.

Note The water hole shaft (a above) is now flooded however pumping will not be necessary as drainage can be effected by a tap from the Ponesteel Tunnell (c 1 above).

3. The mines are located miles north of Franklin, N. C.
4. (a) Not now being operated.
   (b) Proposed to be explored and operated by owner.
5. The mines on this property have been operated intermittently when economically feasible but not in recent years owing to high cost of operation and low price for product thus making operation economically impractical. This property while at times in previous operations has produced mica in large quantities has never been properly opened or operated but with sufficient capital for proper exploration and operation should become a large producer.
Exploration and operation can begin as soon as sufficient capital and equipment can be secured.
6. Applicant has been a practicing attorney since 19[illegible] and in connection with his practice has had extensive experience with mining operations. Applicant has had at least five years actual experience in mining. Applicant proposes to supervise the operation and handle all business connected therewith. Applicant proposes to employ as foreman a man who has had wide experience with tunnel work, grading, excavation and open cut mining.
7. (a) See answer to question 5. One year ago in an attempt to locate a deposit of feldspar on the property and to ascertain if it was present in commercial quantities over 4,000 pounds of strategic mica was taken from the Ponesteel tunnell within a period of two weeks.
   (b) This property is located almost in the exact center of the main mica lead of Western North Carolina. In the past several important mines within a short distance of this property have produced large quantities of high quality mica.

(c) Other than work done on the property previously there are no reports applying to this property.

12. From the past history of these mining prospects it is conservatively estimated, provided sufficient capital and equipment is available, that they should produce at least 1,000 pounds of block mica per day; the quality of the mica is such that of the 1,000 pounds at least 400 pounds of punch and pattern mica would be worked out.

While it is impossible to determine the total reserves, it is estimated that their operation should provide sufficient mica to continue operations for not less than 10 years at the above rate.

The applicant proposes to remove the overburden from the vein, the location of which with regard to the surface, makes this type of operation practical and thereafter to operate same by open cut methods thereby permitting continuous operation with minimum problem of drainage, timbering, pumping and hoisting. It is estimated that the exploration can be completed in approximately 90 working days.

13. An all weather road, State maintained, is within one-fourth mile of the property. This road leads to a hard surfaced highway located within one mile of the property. There is a road leading into the property from the end of the State maintained road and a small amount of work could put it in excellent condition.

14. Sufficient water for all purposes available on property.

15. Power line within one-fourth mile of property.

16. It is estimated that the exploration can be completed within 90 working days. All figures for labor and equipment are based on this period.

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1 Superintendant	@ $25.00 per day	$2,250.00
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Total	$16,925.00

It is suggested that it might be more practical to purchase a bulldozer rather than operate one on a rental basis for the reason that if the exploration was not successful there would be the salvage value of the machine remaining to off set the advance.

17. Building now on property sufficient for needs of exploration.
18. According to N. C. 5 revised the answers to the above are all that are required.

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-1714X

Date received 6/18/51

Participation

Name and address of applicant

T. D. Bryson, Jr.,
Franklin, N. C.

Date June 12, 1951

FILL IN THIS BLOCK

Date of application June 12, 1951

Estimated cost $23,765.00

Mineral or metal mineral

Percentage of Government participation 90

Location of mine 5 miles north of Franklin, N. C.

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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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.

R. C. Bryson, Jr. (Name of company) By [illegible] (Signature of authorized official)

June 12, 1961 (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

1. Applicant is an individual.
6. None.
9. Applicant will invest 10% of costs.
20. Strategic mica.
21. See answer 13, form 100 .
23. See answer 16, form 100.

Application of:
T. D. Bryson, Jr.,
Franklin, N. C.

Assets

Real property:	
276 acres	$15,000.00
3/7th interest 75 acres	10,000.00
Cash	535.00
Auto	1,500.00
Professional equipment	5,000.00
Other personal property	1,500.00
	$33,535.00

Liabilities

Mortgage on home not included in above	3,000.00
Miscellaneous	1,500.00
	$4,500.00

(*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:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By (Signature of authorized official)

(Date)

(Title)

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

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

10. (a). Description of property involved in the exploration project.

In Macon County, North Carolina, adjoining Mason, et al, BEGINNING at a hickory on top of the mountain near Miller Gap, a corner of the J. H. Dalton heir's land, also a corner of Lyle Knob tract, State Grant No. 3022, and runs with Dalton's line N. 26 E. 12 poles to a walnut (new down) in field; N. 61 W. 46 poles to a chestnut oak stump; S. 24 W. 3½ poles to a stake, SE corner of old James Raby tract of land; then with said line N. 87 W. 85 poles to a stake, SW corner of said tract; N. 3 E. 25 poles to a stake in line of said tract; N. 88 W 43 poles to a stake on top of the ridge; N. 2 E. 31 poles to a stake on top of the ridge; N. 87½ W. 62 poles to a hickory in a hollow, corner of Hester Welch's land; N. 75 W. 8 poles to a large hickory, corner of Hester Welch's land, also the NW corner of State Grant No. 3022; S 2 W. 78 poles to a stake on N boundary line of Section 106; N. 87 W ½ pole to a stake, the NW corner of Section 106; then running with Hester Welch's and James Mason's line from the large hickory mentioned above; then still with James Mason's line and the line of Section 106, S. 3 W. 60 poles to a stake in the line of Section 106 and James Mason's corner; then still with James Mason's line N. 87 W. 40 poles to a stake near old road leading to Lyle Knob; then still with James Mason's line S. 3 W. 60 poles to a stake replacing a chestnut, John H. Dalton's corner of State Grant No. 2447 and passing a black gum, an old corner of the Jane Mason land, now a corner of John H. Dalton and James Mason; then S. 87 E. 48 poles to a stake replacing a black oak, old corner of Grant No. 2447 and Grant No. 3022; then with the line of Grant No. 3022 and the Cowee and Millshoal Township lines to the beginning. Containing 276 acres more or less.

(b) See answer to 10 (a) above. Property is the same.

FORM MF- 103

APPLICATION OF: T. D. BRYSON, FRANKLIN, NORTH CAROLINA

STATEMENT OF:

A. W. REID - PRACTICAL GEOLOGIST AND MINING ENGINEER

Applicant's property is situated within the main Mica Lead of Western North Carolina, which has always been highly productive of strategic ruby mica. In this particular property there are several veins which have been worked intermittently during the past 50 to 60 years; producing only high quality ruby mica. The past workings were all by hand methods which resulted in the digging of numerous low tunnels, shafts, drifts, etc., which are now detrimental to future and profitable operation. By removing all overburden and debris this mine can be established in such manner as to release quantities not less than herein stated.

Exploratory work will be conducted to expose veins for open-cut mine; initially for a distance of 300 to 400 feet, 50 to 60 feet wide, and 30 to 50 feet deep. This will dispose of all previous, shallow, and hazardous workings to insure safe, economical operation in the future.

I know this mine intimately and have operated it on occasions over the past 25 years. During the last 6 months of World War II, I sold approximately $22,000.00 worth of high grade ruby mica from this mine to the Colonial Mica Corporation.

I recommend that the exploratory work proceed as outlined.

A. W. Reid

A. W. REID

LOCAL MINING COMMITTEE

dma-1714 X

T. D. BRYSON, JR.
ATTORNEY AT LAW
BRYSON CITY, N. C.

SOLICITOR
TWENTIETH JUDICIAL DISTRICT

Franklin, N. C.
June 12, 1951.

Defense Minerals Administration,
Department of the Interior,
Washington 25, D. C.

Attention: Mr. Landon F. Strobel,
Executive Secretary.

Dear Sir:

I am enclosing forms MF-100 and MF-103 regarding application for an exploration loan pursuant to Mineral Order 5, under Defense Production Act of 1950. Please acknowledge receipt thereof at your convenience.

Very truly yours,

T. D. Bryson Jr.

T. D. BRYSON, JR.

B.B