Messrs. W. Thomas Lee, Jr., and
R. L. Lee
Waynesville, North Carolina

Subject: Docket No. DMEA-1399 - Mica
13 Miles South of
Balsam, North Carolina

Dear Sirs:

Reference is made to our letter of February 6, 1952 requesting evidence of your property rights on a certain mica prospect in North Carolina, and the closing of your file if a reply was not received within thirty days.

Inasmuch as no reply has been received to date, we assume you have been unable to procure the necessary signatures and are, therefore, no longer interested in exploration assistance. Your application is denied since you have failed to establish control or ownership of the land within a reasonable length of time.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

LOHouk:gad 3/12/52

Copy to: Admin. Reading File
Mr. Deitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Docket File
Region VII
Mr. Houk

This letter and non-metallic file sent to Norton, R-3x for information. Operations Comm. thru Mr. Mitterhof
3-13-52

FILE COPY
SURNAME:

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

March 20 1952 BJ

Houk
Norton
Deitrich
Fedor
Turner
Fitzhugh

Messrs. W. Thomas Lee, Jr., and
R. L. Lee
Waynesville, North Carolina

Subject: Docket No. DMEA-1399 - Mica
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Sincerely yours,

C. O. Mittenderf (fw) 3/18/52

Acting Administrator
Defense Minerals Exploration
Administration

LGHouk:gad 3/12/52

Copy to: Admin. Reading File
Mr. Deitrich, 3526
Mr. Norton, G-232, GSA Bldg.
Docket File
Region VII
Mr. Houk

FILE COPY
SURNAME:

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

FEB 6 1952

Messrs. W. Thomas Lee, Jr., and
R. L. Lee
Waynesville, North Carolina

Subject: Docket No. DMEA-1399 - Mica
13 Miles South of
Balsam, North Carolina

Dear Sirs:

Reference is made to our letter of August 14, 1951, requesting certain evidence of your right to a mica prospect about thirteen miles south of Balsam, North Carolina.

In your application it is stated that you are two of nine heirs at law of W. T. Lee, deceased, and that the estate is owner in fee simple of the land involved in this application. In order to comply with Government requirements for an exploration contract, one of two actions is necessary. Either the estate or all of the nine heirs must be made parties to the application, or you should obtain a lease or other legal right to the tract of ground you desire to explore. If you choose the latter course, it will be necessary that you also obtain subordination agreement from the legal owner in favor of the Government.

If you decide to obtain a lease on the ground, six copies of such lease must be forwarded to this office, together with six copies of subordination agreement. The lease copies may be in the form of photostatic reproductions or certified copies from the office of record. For the subordination agreement seven copies of Form MF-202 are herewith enclosed, six original copies of which are to be returned with the lease forms.

Inasmuch as considerable time has elapsed, we consider it advisable to close the file within thirty days unless we hear from you to the contrary.

Sincerely yours,

Signed S.N. 2-6-52

Lawrence G. Houk, Acting Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

LGHouk:gad
2/5/52

Copy to: Admin. Reading File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-228, GSA Bldg.
Mr. Houk

Enclosures 7

Feb. 6, 1952

Messrs. W. Thomas Lee, Jr., and
R. L. Lee
Waynesville, North Carolina

Subject: Docket No. DMEA-1399-Mica
13 Miles South of
Balsam, North Carolina

Dear Sirs:

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Inasmuch as considerable time has elapsed, we consider it advisable to close the file within thirty days unless we hear from you to the contrary.

Sincerely yours,

(Sgd) 2/6/52

Lawrence G. Houk, Acting Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

C O P Y

JAMES H. HOWELL, JR.
ATTORNEY-AT-LAW
WAYNESVILLE, N. C.

August 27th, 1951

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

Att: C. O. Mittendorf, Director
Production Expansion Division

Re: DMA No. 1399X
Mica
Exploration Project.

Dear Sir:

This is in reply to your letter of August 14, 1951, relative to furnishing "Landlord's Subordination Agreement" with respect to Messers W. Thomas Lee Jr., and R. L. Lee, of Waynesville, N. C., regarding an exploration project on the W. T. Lee Property.

Due to circumstances beyond the control of applicants, such agreements cannot be forthcoming at this time; therefore, all that applicants request of you at the present time is that the application be tabled, or placed in suspense, until such future date as all the heirs involved in this matter will reach agreement.

Sincerely yours,

James H. Howell, Jr.

James H. Howell, Jr.

Lee & Lee

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
AUG 29 1 40 PM '51

FILE COPY
SURNAME:

400

Hanson
Olund
Mittendorf

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

August 14, 1951

Messrs. W. Thomas Lee, Jr., and
R. L. Lee
Waynesville, North Carolina

Re: DMA No. 1399X
Mica
Exploration Project

Gentlemen:

Before the consideration of your application for exploration aid can be completed, it will be necessary that you supply certain evidence of your right to the property involved.

In your application it is stated that you are two of nine heirs at law of W. T. Lee, deceased, and that the estate is owner in fee simple of the land involved in this application. In order to comply with Government requirements for an exploration contract, one of two actions is necessary. Either the estate or all of the nine heirs must be made parties to the application, or you should obtain a lease or other legal right to the tract of ground you desire to explore. If you choose the latter course, it will be necessary that you also obtain subordination agreement from the legal owner in favor of the Government.

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Sincerely yours,

Enclosures (7)

C. O. Mittendorf (J. W.)

FWHanson/bih
cc to: Reports & Records
Mittendorf-Olund
Barr
Norton
Josephson
Hanson
DOCKET

C. O. Mittendorf, Director
Production Expansion Division

J.F. 8/16

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

Room 13, Post Office Building
Knoxville 01, Tennessee

July 13, 1951

Registered Mail

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 16 1951
LAWRENCE F. SCHEEL
Executive Secretary

Memorandum

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

From: Field Team, Region VII

Subject: DMA 1399X - W. Thos. Lee

Transmitted herewith are four copies of the field investigation report on DMA-1399X. Results and recommendations were discussed with Mr. Waskey by telephone on June 28.

It should be noted that, although prospect "A" offers some promise of strategic mica, its inaccessibility makes exploration rather expensive. A total of $4,400 is estimated for 200 feet of diamond drilling.

The original application file is also returned herewith.

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

Enclosures

7-3-51

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 16 1951
Lincoln C. Gilbert
Executive Secretary

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

DMA-1399X, W. T. Lee, Jr. and R. L. Lee
Balsam, Jefferson County
North Carolina

BY

J. B. Hadley, Geologist
U. S. Geological Survey

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

June 25-27, 1951

Report of the Field Team Examination of the
W. Thomas Lee, Jr. and R. L. Lee, Deposits
Balsam, Jackson County, N. C.

June 25 and 27, 1951

DMA-1399X - mica

The field team examined three of the five prospects listed in the above application on June 25 and 27, 1951. These were "A", "B", and "D" shown on the quadrangle presented with the application. Prospect "C" could not be found even with a guide who was supposed to know its location. No guide was available who knew the location of prospect "E."

Prospect "A" is the only one visited that appeared to have any possibility of producing any amount of strategic mica. All prospects are very inaccessible and access roads will have to be constructed to them before any work can be done.

Geology

Prospect "A"

The main cut on this pegmatite is at elevation 5200' just over the south side of the ridge. The cut is about 25 feet long in hard rock and follows the pegmatite which trends N 42° W. The pegmatite is in mica gneiss whose foliation in the cut is N 80° E and dip is 40° NE. The well exposed hanging wall is irregular with many short tongues of pegmatite in the gneiss. A rather continuous quartz core, swelling to 15 inches thick in places is about 18"-24" from the hanging wall. It strikes N 42° W and dips 40° N. E. The footwall is not well exposed but the pegmatite is about 8' wide. The zone adjacent to the

quartz is coarse quartz - perthite (?) pegmatite, poor in mica although some appears adjacent to the quartz. A one foot thick zone adjacent to the hanging wall is quartz plagioclase (?) muscovite pegmatite with fairly abundant muscovite plus considerable biotite near wall(50% ± muscovite). Maximum size books 3 x 1/2-inch. The mica islight rum, fairly clear but warped and rifts well. Might be able to recover small punch.

The foot-wall mica zone appears to be wide, perhaps 2 feet, about 1-foot from quartz core. Also much mica (10% ±). But mica is smaller (2" maximum size). There is much biotite. This is probably largely scrap.

The pegmatite is exposed to the southeast intermittently for 70-feet where it is 15-inches thick. To the northwest two pieces of float were found about 50-feet from the cut. However, there were no outcrops shown here. About 150 feet to the northwest about on the strike of the pegmatite is a small pit about 10-feet long and 3-feet deep on edge of a pegmatite that might be the same one. The foliation of the gneiss here N 80° W and dip is 35° NE. There was very little exposure or dump material at this location. The mica was sparse, small and there was abundant biotite here.

The cuts and dumps are overgrown and appear to be 20 or more years old. Mr. W. T. Lee stated that the prospect was operated by a Will Spicey of Balsam Gap, N. C. in the 1930's. It is reported that one block of mica produced 59 pounds of sheet which he sold for $1.00 per pound. He also sold 300-pounds of block at 4.5¢ per pound.

It is recommended that $2400.00 be expended on this prospect to be divided as follows:

Access road 2-1/2 miles (contract)	$2000.
200-ft. of NX diamond drilling @ $7 per foot (contract)	1400.
Transportation of drill (contractor)	500.
Miscellaneous, supervision & sampling	500.
Total for prospect	$4400.

Prospect "B"

This prospect is at elevation 4400 on a tributary of Cabin Creek. It is on the southeast side of the stream and about 60 feet above it. The slope trends S 20° E. The pegmatite outcrops in a belt 75 feet wide along the slope and extends uphill on a 35° slope to the NNE for 200-feet to an elevation of 4520. There are abundant large blocks of pegmatite strewn on slope west of the stream.

Nearly all of the float and most of the out-crops is fine grained quartz plagioclase pegmatite rich in both quartz and muscovite. The muscovite is very abundant (commonly 20 %) in books 1" wide and 1/2" to 2" thick. Average about 1/2-inch. A narrow zone 5-ft. wide near center of pegmatite is somewhat coarse, contains more feldspar, and muscovite books are as large as 2-inches or 2 1/2 inches. Some are intergrown with biotite. Some 1/2-inch biotite strips are present. There is no persistant quartz core but quartz measuring up to 1-foot long was seen in fine grained pegmatite and several large quartz blocks are in the float at lowest pond in the stream.

The only working is an old caved adit, 20 feet long at the NE edge of the known outcrop of the pegmatite. It is all in fine grained quartz rich pegmatite but seems to contain less mica. A 4-inch septum of country rock trends N 70° W and dips 20° NE through the middle of caved upper part of adit.

The small book mica is fairly clear, straight, medium run color, but all too small for sheet.

The stream has a good flow of water and the prospect is reached from the mine road at Cabin Flats.

There is no record of any sheet mica production from here and it is recommended that work on this pegmatite be denied.

Prospect "D"

This prospect is on the north side of Dark Ridge Creek, about 100-feet above the stream. It is reached from the Big Flint Mine road at Cabin Flats by 4.5-miles of very poor truck road on which the bridges are out for the last mile.

An open cut, caved adit and small pit expose a pegmatite 5-ft. wide which strikes E-W and dips 45° - 55° N in mica gneiss. The exposure at the upper part of the caved adit at grass roots is 5-1/2-ft. wide and has a 2-ft. to 3-ft. quartz core. About 1-ft. of coarse plagioclase on the hanging wall side has thin muscovite books up to 3--inches. Considerable muscovite was seen on the dump with books up to 4-inches. One book seen would yield 1" x 1" or 1-1/2" x 1" sheet of fairly clear, light run but

somewhat bent mica.

The pegmatite is exposed for about 40-ft., but seems to be only 2-ft. wide at the west end. The width is not exposed in the small cut to the east.

Most of the mica seems to be adjacent to and tied to the quartz making it hard to mine.

The adit was reported to have been dug in 1930 by some timber cutters. There is no record of any production.

There is no evidence of any quantity of strategic mica, so it is recommended that work on this pegmatite be denied.

General

Applicants are two of nine heirs in law of W. T. Lee, deceased, and to simplify matters they are securing a lease to the properties involved.

W. T. Lee, Jr. accompanied the field team on the examinations, but due to a heart condition he was unable to climb the mountains and visit the prospects. He stated that there are numerous other good prospects on the 6000-acre estate. Some of these are marked on the quadrangle sent with the application.

Mr. Lee was advised to present another application if the Act is extended. This application to include the two deposits not seen ("C & E") and other prosmising areas.

FILE COPY
SURNAME:

Barr
Parsons/Kemp
Fay

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

June 29, 1951

Memorandum

To: Mr. James A. Barr, Jr.

From: Mr. A.D. Parsons

Subject: Docket [illegible]-1399X; Mica
[illegible] Lee Jr. and [illegible] Lee
Raymondville,
North Carolina

The prospective available supply of mica is far short of meeting defense requirements. Therefore, it is highly desirable that exploration for new domestic deposits be stimulated by a reasonable Government assistance to private interests. Any exploration project that holds promise of finding significant new reserves, merits consideration by the Defense Minerals Administration.

Mr. A.D. Parsons
Assistant Director
Supply Division

Attach

cc: Mr. Strobel
Mr. Barr
Mr. Parsons
Mr. Norton
Mr. Mittenderf
Mr. Miles

6-29-51

Docket DMA-1399X

Memorandum

To: Stanley M. Walker, Acting Chief
Housing & Utilities Branch

From: James A. Barr, Sr.

Subject: DMA-1399X; Mica
W. Thomas Lee, Jr., and R.L. Lee
Waynesville, North Carolina

Subject applications includes 2 1/2 miles of tractor road up the head waters of Cabin Creek on the SW side of Laurel Patch Bald in Jackson County, N.C.

Recommended for approval to include $2000 for above road.

James Barr
MB

James A. Barr, Sr.

RW:mas

cc: Mr. Strobel
Mr. Barr
DMA Files

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

JUN 21 1951

JUN 22 REC'D

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

Dear Sir:

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

Docket No. 1399-X

Commodity Mica

Applicant W. Thomas Lee, Jr. & R. L. Lee, Property: Balsam, N. C.

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

Very truly yours,

Sam Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1399-X

Commodity Mica

Total Amount $205,490

Govt. Participation 90%

1. Name and Address of Applicant W. Thomas Lee, Jr. & R. L. Lee, Waynesville, N. C.

2. Location of Property About 3 miles South of Balsam, N.C.

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

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) ✓ Don't know—needs field examination Reduced Tremo effected

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

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

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

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

*question numbers are those of MF-103

13a-ft

7. Are subordination agreements necessary? See Recommendation

a) MF-201?

b) MF-202

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

a) Available manpower yes

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

c) Accessibility (question 12)* yes

d) Water (question 13)* yes

e) Power (question 13)* yes

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

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

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? insufficient detail - map finished shows location only

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes, as far as it is described - not

If not, what part of it is? enough detail given -

1399-78

Is this part a worthwhile exploration project? Yes, Subject Field Exam.

d) Are the cost estimates detailed? Yes

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? NO

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

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? NO

d) Is a field check needed? Yes

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

a) Are there sufficient data? Yes

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

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

d) Are the proposed wages and salaries reasonable? NO

e) Is a field check needed? Yes — The schedule proposed is much too ambitious for an initial Exploration program — No justification shown for the number of employees listed & salaries included.

13 99-5

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed? NO

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Do exposures indicate strategic mica in sufficient quantities to justify Exploration? Applicant must secure representation of entire interest in land involved by lease and subordination or otherwise if funds are to be granted. If property appears favorable for strategic mica on basis of present exposures & applicant can settle ownership representation as above, then try to outline a ~~[illegible]~~ Exploration Program at a reasonable cost which applicant may then submit. Present application appears to indicate a very expensive and costly schedule, for example why 5 Foremen, 5 Blacksmiths, 5 Compressor ops., Supt. @ $800/mo, why Bookkeeper & 2 Stenographers?

Reviewed by: [illegible]

Date 6/11

97692

Answer to question (4) Application DMA-1399X - sheet mica
W. T. Lee and R. L. Lee,
Waynesville, North Carolina.

(d) Don't know --- needs field examination.

Field team should investigate to determine quality of exposed mica and whether the geologic evidence warrants all or part of the exposed exploration. I think the possibilities are poor from the little known information.

Recommended by J. A. Redden

JARedden:jeh
G-6/8/51

cc: Redden

5

Memorandum:

To: Director, Production Expansion Division
Defense Minerals Administration

From: Director, Supply Division
Defense Minerals Administration

Subject: Recommendation for Contract Approval

Name of Applicant: W. Thomas Lee Jr., and R.L.Lee
Waynesville, N.C.

DMA No. 1399X

Commodity: Mica

Amount Requested: $ 205,490

Amount Approved: $ 4,400

Government Participation: 90 % $ 3960

Tom Lyon

Tom Lyon

Docket DMA-1399X

EXHIBIT "A"

The Pegmatite outcrop referred to in "Exploration Project 'A'" in application and on accompanying map is reported by Field Team as a likely prospect worthy of a limited amount of diamond drilling. However it is rather inaccesable and it will be necessary to build about 2 1/2 miles of tractor road in order to haul in equipment.

After tractor road has been built it is intended to move in a diamond drill and put down 2 holes to a depth of 100' each. Total allowable costs $4,400, time limit 6 months.

Location of drill holes will be mutually agreeable to Field Team & Operator.

Docket DMA-1399X

EXHIBIT "B"

Temparary camp construction	$ 200.00

EXHIBIT "C"

Bulldozer contract to build road	$ 2000.00
" rental to repair camp site and clear off side hill area for drilling 10 hrs @ $10	100.00
Diamond drill contract 200' @ $7 (NX)	1400.00
Tractor rental or contract to move in camp equipment, supplies, drill, etc.	100.00
Core boxes, handling, testing	100.00
Total	$3800.00

EXHIBIT "D"

Engineer- supt. 20 days @ $5	$ 300.00
Miscellaneous and contingencies	100.00
Total	400.00
	$ 4400.00

EXHIBIT "E"

Not Applicable

Docket DMA-1399X

Recommendation

That an Exploration Aid Contract be granted in the amount of $4,400, Government Participation 90%, according to Exhibits attached.

Memorandum:

To: Director, Production Expansion Division
Defense Minerals Administration

From: Director, Supply Division
Defense Minerals Administration

Subject: Recommendation for Contract Approval

Name of Applicant: W. Thomas Lee Jr., and R.L. Lee
Waynesville, N.C.

DMA No. 1399X

Commodity: Mica

Amount Requested: $ 205,490

Amount Approved: $ 4,400

Government Participation: 90 % $ 3960

Tom Lyon

Docket DMA-1399X

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Docket DMA-1399X

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Total	$3800.00

EXHIBIT "D"

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Miscellaneous and contingencies	100.00
Total	400.00
	$ 4400.00

EXHIBIT "E"

Not Applicable

Docket DMA-1399X

Recommendation

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Memorandum:

To: Director, Production Expansion Division
Defense Minerals Administration

From: Director, Supply Division
Defense Minerals Administration

Subject: Recommendation for Contract Approval

Name of Applicant: W. Thomas Lee Jr., and R.L.Lee
Waynesville, N.C.

DMA No. 1399X

Commodity: Mica

Amount Requested: $ 205,490

Amount Approved: $ 4,400

Government Participation: 90 % $ 3960

Tom Lyon

Docket DMA-1399X

EXHIBIT "A"

The Pegmatite outcrop referred to in "Exploration Project "N" in application and on accompanying map is reported by Field Team as a likely prospect worthy of a limited amount of diamond drilling. However it is rather inaccessable and it will be necessary to build about 2 1/2 miles of tractor road in order to haul in equipment.

After tractor road has been built it is intended to move in a diamond drill and put down 2 holes to a depth of 100' each. Total allowable costs $4,400, time limit 6 months.

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Docket DMA-1399X

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Miscellaneous and contingencies	100.00
Total	400.00
	$ 4400.00

EXHIBIT "E"

Not Applicable

Docket DMA-1399X

Recommendation

That an Exploration Aid Contract be granted in the amount of $4,400, Government Participation 90%, according to Exhibits attached.

W. Thomas Lee Jr., and R.L.Lee
Waynesville, N.C.

1399

Mica

205,490

4,400

90 3960

Docket DMA-1399X

EXHIBIT "A"

The Pegmatite outcrop referred to in "Exploration Project 'A'" in application and on accompanying map is reported by Field Team as a likely prospect worthy of a limited amount of diamond drilling. However it is rather inaccessable and it will be necessary to build about 2 1/2 miles of tractor road in order to haul in equipment.

After tractor road has been built it is intended to move in a diamond drill and put down 2 holes to a depth of 100' each. Total allowable costs $4,400, time limit 6 months.

Location of drill holes will be mutually agreeable to Field Team & Operator.

Docket DMA-1399X

EXHIBIT "B"

Temparary camp construction	$ 200.00

EXHIBIT "C"

Bulldozer contract to build road	$ 2000.00
" rental to repair camp site and clear off side hill area for drilling 10 hrs @ $10	100.00
Diamond drill contract 200' @ $7 (NX)	1400.00
Tractor rental or contract to move in camp equipment, supplies, drill, etc.	100.00
Core boxes, handling, testing	100.00
Total	$3800.00

EXHIBIT "D"

Engineer- supt. 20 days @ $5	$ 300.00
Miscellaneous and contingencies	100.00
Total	400.00
	$ 4400.00

EXHIBIT "E"

Not Applicable

Docket DMA-1399X

Recommendation

That an Exploration Aid Contract be granted in the amount of $4,400, Government Participation 90%, according to Exhibits attached.

Memorandum:

To: Director, Production Expansion Division
Defense Minerals Administration

From: Director, Supply Division
Defense Minerals Administration

Subject: Recommendation for Contract Approval

Name of Applicant: W. Thomas Leigh & R. Lytle
Weymouth, N.C.

DMA No. 1399-7

Commodity: Mica

Amount Requested: $205,490

Amount Approved: $4,400

Government Participation: 90 % $3960

Tom Lyon

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 16 1951
LAMBERT F. STIEGEL
Executive Secretary

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

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

DMA-1399X, W. T. Lee, Jr. and R. L. Lee
Balsam, Jefferson County
North Carolina

BY

J. B. Hadley, Geologist
U. S. Geological Survey

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

June 25-27, 1951

Report of the Field Team Examination of the
W. Thomas Lee, Jr. and R. L. Lee, Deposits
Balsam, Jackson County, N. C.

June 25 and 27, 1951

DMA-1399X - mica

The field team examined three of the five prospects listed in the above application on June 25 and 27, 1951. These were "A", "B", and "D" shown on the quadrangle presented with the application. Prospect "C" could not be found even with a guide who was supposed to know its location. No guide was available who knew the location of prospect "E."

Prospect "A" is the only one visited that appeared to have any possibility of producing any amount of strategic mica. All prospects are very inaccessible, and access roads will have to be constructed to them before any work can be done.

Geology

Prospect "A"

The main cut on this pegmatite is at elevation 5200' just over the south side of the ridge. The cut is about 25 feet long in hard rock and follows the pegmatite which trends N 42° W. The pegmatite is in mica gneiss whose foliation in the cut is N 80° E and dip is 40° NE. The well exposed hanging wall is irregular with many short tongues of pegmatite in the gneiss. A rather continuous quartz core, swelling to 15 inches thick in places is about 18"-24" from the hanging wall. It strikes N 42° W and dips 40° N. E. The footwall is not well exposed but the pegmatite is about 8' wide. The zone adjacent to the

quartz is coarse quartz - perthite (?) pegmatite, poor in mica although some appears adjacent to the quartz. A one foot thick zone adjacent to the hanging wall is quartz plagioclase (?) muscovite pegmatite with fairly abundant muscovite plus considerable biotite near wall(50% ± muscovite). Maximum size b cocks 3 x 1/2-inch. The mica islight rum, fairly clear but warped and rifts well. Might be able to recover small punch.

The foot-wall mica zone appears to be wide, perhaps 2 feet, about 1-foot from quartz core. Also much mica (10% ±). But mica is smaller (2" maximum size). There is much biotite. This is probably largely scrap.

The pegmatite is exposed to the southeast intermittently for 70-feet where it is 15-inches thick. To the northwest two pieces of float were found about 50-feet from the cut. However, there were no outcrops shown here. About 150 feet to the northwest about on the strike of the pegmatite is a small pit about 10-feet long and 3-feet deep on edge of a pegmatite that might be the same one. The foliation of the gneiss here N 80° W and dip is 35° NE. There was very little exposure or dump material at this location. The mica was sparse, small and there was abundant biotite here.

The cuts and dumps are overgrown and appear to be 20 or more years old. Mr. W. T. Lee stated that the prospect was operated by a Will Spicey of Balsam Gap, N. C. in the 1930's. It is reported that one block of mica produced 59 pounds of sheet which he sold for $1.00 per pound. He also sold 300-pounds of block at 4.5¢ per pound.

It is recommended that $2400.00 be expended on this prospect to be divided as follows:

Access road 2-1/2 miles (contract)	$2000.
200-ft. of NX diamond drilling @ $7 per foot (contract)	1400.
Transportation of drill(contractor)	500.
Miscellaneous, supervision & sampling	500.
Total for prospect	$4400.

Prospect "B"

This prospect is at elevation 4400 on a tributary of Cabin Creek. It is on the southeast side of the stream and about 60 feet above it. The slope trends S 20° E. The pegmatite outcrops in a belt 75 feet wide along the slope and extends uphill on a 35° slope to the NNE for 200-feet to an elevation of 4520. There are abundant large blocks of pegmatite strewn on slope west of the stream.

Nearly all of the float and most of the out-crops is fine grained quartz plagioclase pegmatite rich in both quartz and muscovite. The muscovite is very abundant (commonly 20 %) in books 1" wide and 1/2" to 2" thick. Average about 1/2-inch. A narrow zone 5-ft. wide near center of pegmatite is somewhat coarse, contains more feldspar, and muscovite books are as large as 2-inches or 2 1/2 inches. Some are intergrown with biotite. Some 1/2-inch biotite strips are present. There is no persistant quartz core but quartz measuring up to 1-foot long was seen in fine grained pegmatite and several large quartz blocks are in the float at lowest pond in the stream.

The only working is an old caved adit, 20 feet long at the NW edge of the known outcrop of the pegmatite. It is all in fine grained quartz rich pegmatite but seems to contain less mica. A 4-inch septum of country rock trends N 70° W and dips 20° NE through the middle of caved upper part of adit.

The small book mica is fairly clear, straight, medium rum color, but all too small for sheet.

The stream has a good flow of water and the prospect is reached from the mine road at Cabin Flats.

There is no record of any sheet mica production from here and it is recommended that work on this pegmatite be denied.

Prospect "D"

This prospect is on the north side of Dark Ridge Creek, about 100-feet above the stream. It is reached from the Big Flint Mine road at Cabin Flats by 4.5-miles of very poor truck road on which the bridges are out for the last mile.

An open cut, caved adit and small pit expose a pegmatite 5-ft. wide which strikes E-W and dips 45° - 55° N in mica gneiss. The exposure at the upper part of the caved adit at grass roots is 5-1/2-ft. wide and has a 2-ft. to 3-ft. quartz core. About 1-ft. of coarse plagioclase on the hanging wall side has thin muscovite books up to 3-inches. Considerable muscovite was seen on the dump with books up to 4-inches. One book seen would yield 1" x 1" or 1-1/2" x 1" sheet of fairly clear, light rum but

somewhat bent mica.

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The adit was reported to have been dug in 1930 by some timber cutters. There is no record of any production.

There is no evidence of any quantity of strategic mica, so it is recommended that work on this pegmatite be denied.

General

Applicants are two of nine heirs in law of W. T. Lee, deceased, and to simplify matters they are securing a lease to the properties involved.

W. T. Lee, Jr. accompanied the field team on the examinations, but due to a heart condition he was unable to climb the mountains and visit the prospects. He stated that there are numerous other good prospects on the 6000-acre estate. Some of these are marked on the quadrangle sent with the application.

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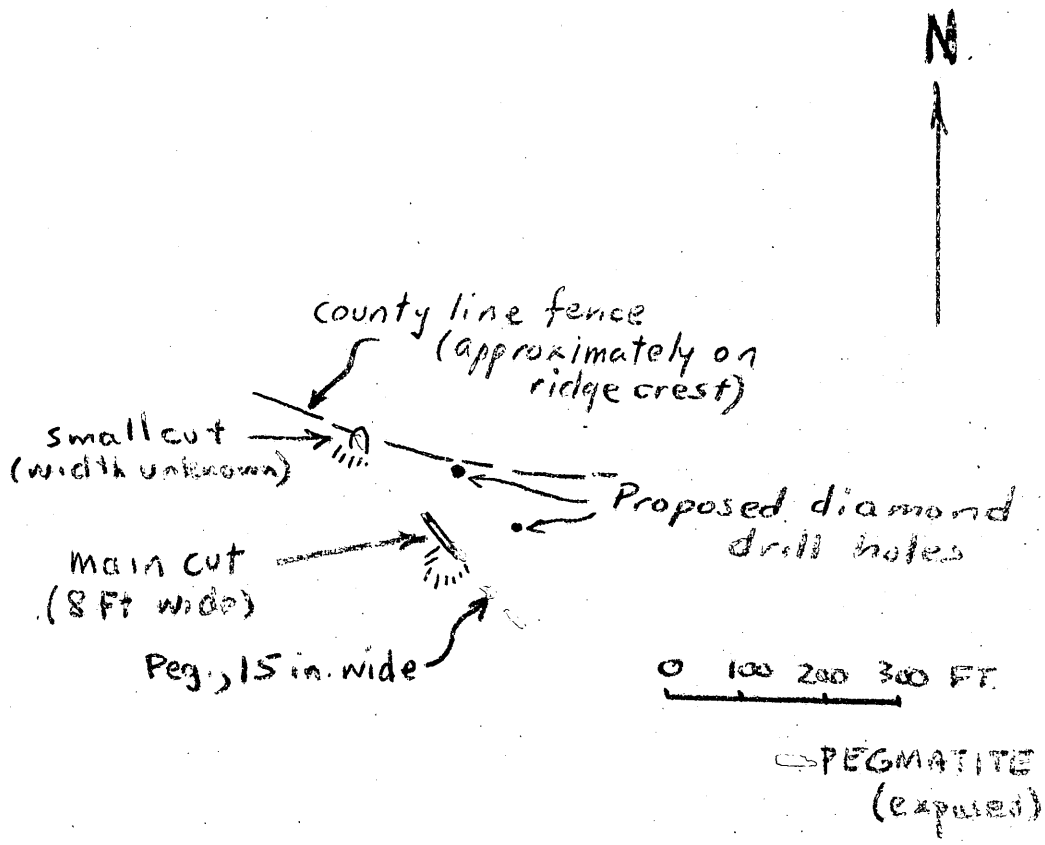

Prospect "A"
DMA-1398 K
W. Thos Lee

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 16 1951
LANDON F. SPRUGEL
Executive Secretary

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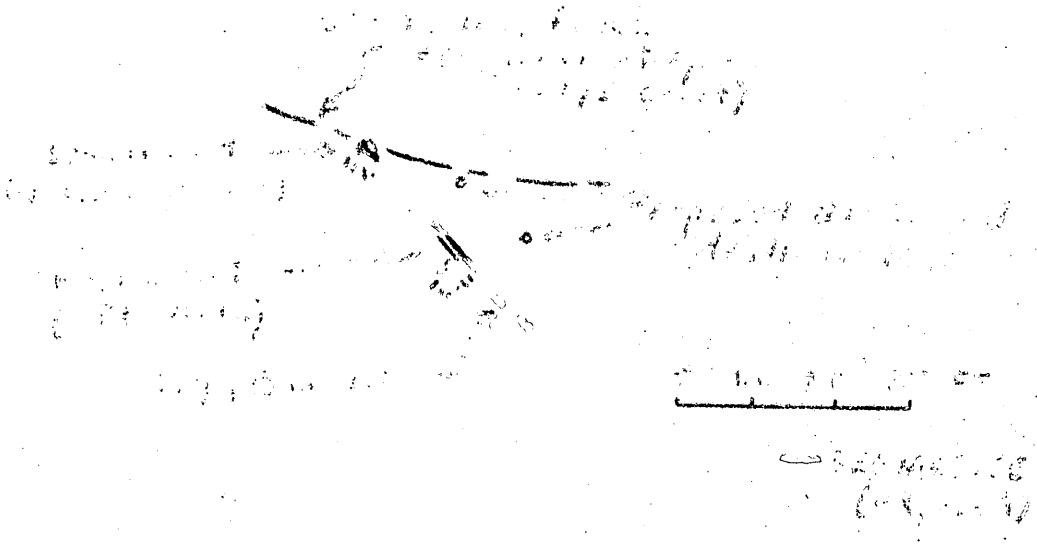


6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1399-X

Commodity Mica

Total Amount $205,490

Govt. Participation 90%

1. Name and Address of Applicant W. Thomas Lee, Jr. & R. L. Lee, Waynesville, N. C.

2. Location of Property About 3 miles South of Balsam, N.C.

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

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) ✓ Don't know—needs field examination Reddon Memo attached

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

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

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

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

*question numbers are those of MF-103

1399-T

7. Are subordination agreements necessary? See Recommendation

   a) MF-201? _____

   b) MF-202 _____

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

   a) Available manpower yes

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

   c) Accessibility (question 12)* yes

   d) Water (question 13)* yes

   e) Power (question 13)* yes

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

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

   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? insufficient detail - Map furnished shows location only

   c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes, as far as it is described - not

      If not, what part of it is? enough detail given -

1399-7

Is this part a worthwhile exploration project? Yes, Subject Field Exam.

d) Are the cost estimates detailed? yes

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? NO

f) Should more information be requested from applicant? yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? yes

b) If so, are sufficient data furnished? ~~yes~~ 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? NO

d) Is a field check needed? Yes

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

a) Are there sufficient data? yes

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

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

d) Are the proposed wages and salaries reasonable? NO

e) Is a field check needed? Yes — The schedule proposed is much too ambitious for an initial Exploration program — No justification shown for the number of employees listed & salaries included.

1399-π

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed? NO

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Do exposures indicate strategic mica in sufficient quantities to justify Exploration? Applicant must secure representation of entire interest in Land involved by lease and subordination or otherwise if funds are to be granted — If property appears favorable for strategic mica on basis of Present exposures & applicant can settle ownership representation as above, then trq to outline a minimum Exploration Program at a reasonable cost which applacant may then submit.

Reviewed by: [illegible]

Date 6/11

Present application appears to include a very excessive Work & Cost schedule, For example why 5 Foremen, 5 Blacksmiths, 5 compressor ops., Supt. @ $800/mo, why Bookeeper & 2 stenographers?

97692

Answer to question (4) Application DMA-1399X - sheet mica
W. T. Lee and R. L. Lee,
Waynesville, North Carolina.

(d) Don't know --- needs field examination.

Field team should investigate to determine quality of exposed mica and whether the geologic evidence warrants all or part of the exposed exploration. I think the possibilities are poor from the little known information.

Jack A. Redden

Recommended by J. A. Redden

FILE COPY
~~SURNAME:~~

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

Barr
McCaughey
Jerry Rowe

Docket & letter mailed JUN 21 1951

June 13, 1951

Mr. James H. Howell, Jr.
Attorney-at-Law
Waynesville, North Carolina

Subject: DMA-1399-X

Dear Mr. Howell:

With regards to application for aid for exploration project for mica or Lee Estate, Waynesville, N. C., accompanying your letter of May 29, 1951, and docketed as DMA-1399X, additional information will be necessary in order for us to process same.

As explained to you in telephone conversation of June 5, it will be necessary that applicant represent the entire interest in the lands involved, which may be done either by having all of the owners as partners in the application or by lease of interest accompanied by properly executed "Landlords Subordination".

In the case of an exploration grant on mica, the Government will furnish up to 90% of necessary funds; applicant must agree to furnish the remainder. An application for a loan for development and mining purposes may be made, which, if approved, does not necessarily require that the applicant furnish participating funds. As explained by phone, it is necessary to make a sharp distinction between exploration and development, and confine exploration projects to work necessary to the delineation and reasonable sampling of mineral deposits.

We cannot refer your application to a field team, as you request, until U. S. Geological Survey and Bureau of Mines Specialists here review available information on the area in question. Subject to their findings here, a field team referral may or may not be necessary.

Very truly yours,

James Barr

James A. Barr, Sr., Chief
Industrial Minerals Branch

RW:dak

cc: Mr. Strobel
Mr. Barr
Files

FILE COPY
SURNAME:

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

June 13, 1951

Mr. W. Thomas Lee, Jr.
Maynesville,
North Carolina

Subject: DMA-1399X
Re: Exploration Loan

My dear Mr. Lee:

Receipt is acknowledged of your application and attachments of May 23, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1399X and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 4, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1399X.

Sincerely yours,

LANDON F. STROBEL
jc
Landon F. Strobel
Executive Secretary

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

LANDON F. SHROBEL

dmd 1399 X

JAMES H. HOWELL, JR.
ATTORNEY-AT-LAW
WAYNESVILLE, N. C.

May 29th, 1951

Defense Minerals Administration

Department of the Interior

Washington 25, D. C.

Gentlemen:

Enclosed are Forms MF-100, General Technical Data, and MF-103, Application for Aid for Exploration Project, submitted in quadruplicate, with attached Geological Survey Maps showing location of proposed explorations.

Exploration projects are for sheet mica, a strategic mineral, known to exist in area, with scrap mica and felspar as by-products.

Iron and copper have been found in same general area, and at one time copper was mined in small quanities.

Because it is definitely believed that area indicated on maps attached have positive possibilities for development of mines, not only for sheet mica, but for other strategic minerals, it is requested by applicants and owners that a Bureau of Mines-Geological Survey Team be sent in to look over the situation. Full cooperation for a full survey by such an expert team will be extended. Also, expert advice and interest in exploration and development will be appreciated.

Because of limited capital, it is not possible to obtain a private loan from a banking institution in this area, as none are in a position to make the outlay, thence the reason for application for Government assistance.

Your kind and prompt attention will be appreciated.

Very truly yours,

James H. Howell, Jr.

James H. Howell, Jr.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
(RECEIVED)
MAY 8 1951
LARSON F. STROBEL
Executive Secretary

1951 MAY 31 AM 8 22
BUREAU OF MINES
WASHINGTON, D. C.

done 1399X

THE FIRST NATIONAL BANK

— ORGANIZED 1902 —

CAPITAL FUNDS OVER $300,000.00

WAYNESVILLE, N.C.

JONATHAN WOODY
PRESIDENT

May 29, 1951

Mr. W. T. Lee, Jr.
Waynesville
North Carolina

Dear Tom:

It is with much regret that I advise you that we are not in position to make you and your brother, R. L. Lee, a loan of $206,000.00 for exploratory purposes of your mica mine near Balsam, North Carolina about eight miles from our bank.

In the first place, our legal limit is only $25,000.00, and again our Board feels that this is entirely too highly speculative a proposition for our bank.

With cordial good wishes,

Sincerely yours,

JHWoody

President

JHW:jw

DEPARTMENT OF THE [illegible]
Defense Minerals Administration
RECEIVED
MAY 31 1951
LANDON F. STROBEL
Executive Secretary

103
951)

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 1399X

Date received 5-31-51

Participation

W. Thomas Lee Jr., and
R. L. Lee,
Waynesville, N. C.

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $205,490.00

Mineral or metal Sheet Mica

Percentage of Government participation 90%

Location of mine Jackson County, North Carolina.

Date of filing MF-100

DMA Docket Number, if available dma 1399X

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, includ mine or operating property.

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net ea... any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conduct... 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.

---------- By ----------
(Name of company) (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.

*Same as footnote on page 1.

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

WAYNESVILLE, NORTH CAROLINA
MAY 19, 1951

TO: THE FIELD EXECUTIVE OFFICE
DEFENSE MINERALS ADMINISTRATION
ROOM 13, POST OFFICE BLDG.
KNOXVILLE, TENNESSEE

SUBJECT: APPLICATION FOR AID FOR EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER THE DEFENSE PRODUCTION ACT OF 1950.

APPLICATION: Section 1. The Applicant.

1. Applicants are individuals, who are tenants in common in ownership in in fee simple in a 6000 acre boundary of land in Jackson County, North Carolina; for the purposes of this application, applicants shall be deemed a partnership. Should this application be approved, the formation of a corporation is contemplated, and assignment of the exploration project contract to the corporation, together with an exploratory lease for the purpose obtained from remaining tenants in common not included in this application. Applicants are two of nine heirs at law of A. T. Lee, deceased. R. L. Lee, one of applicants, is Administrator of the Estate of A. T. Lee. It is expected that other heirs, who are also tenants in common in ownership of land, will join in necessary legal arrangements, should this project be approved.

2. Names and addresses of Applicants:

A. Thomas Lee, Jr., Waynesville, N. C.

R. L. Lee, Waynesville, N. C.

3. Not applicable.

4. Mining and general experience of applicants who will also supervise operations:

A. Thomas Lee, Waynesville, N. C.:	Fifteen years experience with the Crossy Ridge Mica Mine, Jackson County, sometimes known as the "Big Flint Mine." This applicant has also been in construction work 4 years, operator of a general store for 8 years, and is at present owner-operator of Twin City Bus Lines, Waynesville, N. C., and Twin City Wholesale Auto Parts Store, Waynesville, N. C.
R. L. Lee, Waynesville, N. C.:	Administrator of A. T. Lee Estate, owner-operator of Lee Coal Co., Waynesville, N. C. for 30 years;

5. Applicants are owners in fee simple of a one-ninth undivided interest each in and to the lands upon which project is contemplated.

6. There are no liens, encumbrances, adverse claims, against that portion of property upon which the project is contemplated.
There is a mining lease to the Crossy Ridge Mine which is located upon the 6000 acre boundary, but said lease in no way covers the contemplated development or interferes therewith.

7. Not applicable.

8. Not applicable, because these applicants are not now actively operating a mine or mining project, or company.

9. None.

Section 2. The Property:

10. (a) General location is upon a 6000 acre boundary of land owned by W. T. Lee Heirs in the eastern end of Jackson County, North Carolina, approximately 5 miles south of Balsam, N. C. See attached Map for delineation of boundary. The Grassy Ridge Mica Mine, now operated by the Bradley Mining Co. of Franklin, N. C., is located upon this boundary, and is operated under a lease covering 700 acres.

(b) For exact locations of areas of proposed exploration projects, reference is made to attached map, upon which areas of exploration are delineated thereon in red pencil and marked "A", "B", "C", "D" and "E". Map to which reference is made is the Hazelwood Quadrangle Map, prepared by United States Department of the Interior, Geological Survey, by the Tennessee Valley Authority, Edition of 1942, Coordinates: North 3582.5, West 8800/7.5.

Boundary of W. T. Lee Heirs property is delineated in blue, and also the Bradley Mining Co. Lease.

11. Present name of Property: W. T. Lee Estate.
Former name of Property: Mead and Burr Tract.

12. Distances computed in answer to Item 12 are computed from area of location of most distant proposed exploration; all other exploration areas or locations are of decreasingly lesser distance towns, railroads, etc:

a. Proposed Project "A" is located 19 miles by road Southeast of Hazelwood, reached by 7 miles of paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of old logging road and trail.
b. Proposed Project "B" is located 15 miles South of Balsam, N. C., reached by 1 miles paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of logging road and trail.
c. Proposed Project "E" is located 25 miles by road South of Sylva, N. C., with paved road from Sylva to Balsam, N. C., thence remainder as in b. above.
d. Nearest rail shipping points from Project "A": 15 miles to Balsam, N. C.; 19 miles to Hazelwood, N. C.

Proposed Project "E" is most distant proposed exploration area. Distances of other projects to Balsam, N. C., may be computed by reference to attached maps.

15. Source of Water: All proposed projects are located near streams bearing ample supply during all seasons.

Source of Power: Carolina Power and Light Co., Western North Carolina Division.
Power rates: Exact rates unknown at this time, but estimated to cost approximately $175.00 per month for power to pull a minimum of 120 horsepower load, eight hours working day, 40 hours per week.

14. Existing facilities: None except roads and trails named in Item 12.

15. Ore may be trucked from mine to Balsam, N. C., 13 miles, for transhipment by rail to either Asheville, N. C., 40 miles, or to Franklin, N. C., 32 miles; or ore may be trucked from mine to Asheville, N. C., 50 miles by road from project, or to Franklin, N. C., 45 miles by road. Asheville, N. C., and Franklin, N. C., are nearest milling points.

16. "Big Flint Mica Mine", sometimes known as "Grassy Ridge Mine" is located upon same 6000 acre tract as are the proposed exploration areas, being located approximately in the northeast center of area of 6000 acre boundary. This mine has been producing mica for 50 years of good quality, both sheet and scrap. This mine also produces felspar. Previous explorations have consisted of ten 15 to 20 foot holes where mica has been found outcropping and some good grade sheet mica has been taken out. Lack of money and roads has been main reason for no further development or exploration. The biggest block of mica mined in North Carolina was mined in this area. This block was on display in Asheville, N. C., for several years. About 10 miles to the Northeast is located the the "Big Ridge Mica Mine".

17. Not applicable.

18. Ore or mineral reserves of mica are unknown, but are believed to be extensive from the number of outcroppings in area.

19. We have knowledge of ten outcroppings, and heard of more, but people would not tell us of their location.

SECTION 3. THE EXPLORATION:

20. Chief mineral and primary object of exploration will be sheet mica, with scrap mica and felspar as by-products. Copper and iron have also been found in general area.

21. Sufficient exploratory shafts to locate veins of sheet mica, for which it is estimated 180 working days will be required, for full exploration.

22. Geological basis of project is based upon past actual mining of mica in same area, there being two highly productive mines in area; see also 16 and 19 above.

SECTION 4. THE REQUIREMENTS AND COSTS:

23. The following estimate of costs is based upon a maximum of five explorations at five different exploration points being conducted simultaneously; should all five be not approved, costs would be scaled down accordingly.

(a) Labor:

Personnel	Daily Wage	Time	Cost
5 miners	$12.00	180 working days	$10,800
30 muckers	8.00	" " "	7,200
5 blacksmiths	18.00		16,200
[illegible] oper.	18.00		3,240
5 air compressor operators.	18.00		16,200
5 foreman	18.00		16,200
			$69,840.00

(b) Supervisors:

Superintendent: $800.00 per month, 9 mos. - - - -	$7,200.00	
Bookkeeper - - - 450.00 per month, 9 mos. - - - -	4,050.00	
Two stenographers - -$75.00 per week, 9 mos. - - -	5,400.00	
	$16,650.00	$16,500.00

(c) None.

(d)

Compressor houses and shops - - - - - - - -	[redacted]	
Bunk house & Kitchens - - - - - - - - - - -	12,500.00	
Bunk houses & Kitchens equipment 9 - - -	12,500.00	
		35,000.00

(e) Equipment which must be purchased: estimated cost:

1 bulldozer - - - - - - - - - - - - - - - - -	$15,500.00	
5 compressors - - - - - - - - - - - - - - - -	52,500.00	
10 jack hammers - - - - - - - - - - - - - - -	5,500.00	
10 jack hammer steels - - - - - - - - - - -	5,000.00	
Small hand tools - - - - - - - - - - - - - -	500.00	
Blacksmith equipment - - - - - - - - - - - -	1,500.00	
Electric Welders - - - - - - - - - - - - - - -	2,625.00	
Electric Power Line - - - - - - - - - - - -	7,500.00	
Telephone lines - - - - - - - - - - - - - -	800.00	
5 miles of road - - - - - - - - - - - - - -	7,500.00	
		73,725.00

(f) Do not purpose to rent equipment.

(g) Materials and supplies:

Office rent - - - - - - -	$1200.00	
2 desks - - - - - - - -	250.00	
2 stenographers desks -	250.00	
2 typewriters - - - - -	375.00	
adding machine - - - -	150.00	
stationary - - - - - -	350.00	
Miscel. - - - - - - - -	2500.00	
		5,175.00

(h) Cost of Power:

Approximately $175.00 per month per compressor and bunk and kitchen installation. - - - - - - - - - - - - - -		5,250.00
Total Estimated Cost - - - - - - -		[redacted]

24. Time schedule of project:

(1) Within 60 working days or 3 calendar months, it is expected that all funds for purchase of equipment, construction of roads, bunk houses, kitchens, and equipment, power lines and telephone lines, approximately one-third of cost for labor, and three calendar months for supervisors, will have been spend or committed, to the extent of approximately $106,800.00. It is further expected that all facilities, equipment, labor, will then be in readiness for the actual mining operations.

24. Time Schedule of project: (con't).

(2) Remaining 120 working days or six calendar months, to be used in actually opening and probing project areas for positive location of veins of sheet mica, consuming remaining balance of estimated cost.

C E R T I F I C A T I O N

The undersigned, W. Thomas Lee Jr., and R. L. Lee, hereby certify that the information contained in this form and accompanying papers
papers is correct and complete to the best of their knowledge and belief.

This the 28 day of May, 1951.

W. Thomas Lee

R. L. Lee

DESCRIPTION OF LOCATION OF PROPOSED SHEET MICA EXPLORATION SITES
LOCATED UPON THE LAND OF THE W. T. LEE HEIRS, JACKSON COUNTY,
NORTH CAROLINA.

"Proposed Exploration Project A": west of Westmer Ball,
BEGINNING on Haywood-Jackson County Line Ridge,/said point being
N. 81 deg. East 300 feet from forks of ridge in wire fence on line,
and running thence S. 11° 30' E. 125 to opening, thence S. 11° 30' E. 200 feet
to a stake, thence N. 81° E. 200 feet to a stake, thence N. 11° 30' W. 325 feet
to a stake, thence S. 81° W. 200 feet to BEGINNING.

"Proposed Exploration Project B":
BEGINNING on a point in branch, which point is 857 feet up the branch
from the fork of Cabin Creek: Location S. 51° E. 138 feet to 40'' maple;
thence S. 51° E. 100 feet to a stake, N. 33° E. 200feet to a stake,
N. 56° 15' W. 207 feet to a stake in branch, then down branch S. 49° 15' W.
135 feet, S 89° 45° W. 52 feet to the beginning.

"Proposed Exploration Project C":

Approximate location as shown on attached map.

"Proposed Exploration Project D":
BEGINNING on a 36'' buckeye on the north side of Dark Ridge Creek
which is 375 feet below the forks of said creek as shown on map, and runs,
N. 20° W. 200 feet to a stake, S. 52° W. 200 feet to a stake,
S. 20° E. 200 feet to a stake, N. 52° E. 200 feet to a stake, the
BEGINNING.

"Proposed Exploration Project E":
BEGINNING on a point in fence, which point is S. 77° 30' W 280 feet
from the low point in Copper Mine Gap, and runs N. 44° W. 1748 feet to
opening of an old exploration, and runs thence N. 80° W. 300 feet,
N. 10° E. 300 feet, S. 80° E. 300 feet, S. 10° W. 300 feet to BEGINNING.

For further description of locations above, reference is to
attached Map, Hazelwood Quadrangle, North Carolina, 173 -NE.

Other outcroppins of Mica are marked with an "X" at approximate location
on map.

WAYNESVILLE, NORTH CAROLINA
MAY 19, 1951

TO: THE FIELD EXECUTIVE OFFICE
DEFENSE MINERALS ADMINISTRATIONS
ROOM 13, POST OFFICE BLDG.
KNOXVILLE, TENNESSEE

SUBJECT: APPLICATION FOR AID FOR EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER THE DEFENSE PRODUCTION ACT OF 1950.

APPLICATION: Section 1. The Applicant.

1. Applicants are individuals, who are tenants in common in ownership in in fee simple in a 6000 acre boundary of land in Jackson County, North Carolina; for the purposes of this application, applicants shall be deemed a partnership. Should this application be approved, the formation of a corporation is contemplated, and assignment of the exploration project contract to the corporation, together with an exploratory lease for the purpose obtained from remaining tenants in common not included in this application. Applicants are two of nine heirs at law of W. T. Lee, deceased. R. L. Lee, one of applicants, is Administrator of the Estate of W. T. Lee. It is expected that other heirs, who are also tenants in common in ownership of land, will join in necessary legal arrangements, should this project be approved.

2. Names and addresses of Applicants:

   W. Thomas Lee, Jr., Waynesville, N. C.

   R. L. Lee, Waynesville, N. C.

3. Not applicable.

4. Mining and general experience of applicants who will also supervise operations:

W. Thomas Lee, Waynesville, N. C.:	Fifteen years experience with the Grassy Ridge Mica Mine, Jackson County, sometimes known as the "Big Flint Mine." This applicant has also been in construction work 4 years, operator of a General Store for 8 years, and is at present Owner-operator of Twin City Bus Lines, Waynesville, N. C., and Twin City Wholesale Auto Parts Store, Waynesville, N. C.
R. L. Lee, Waynesville, N. C.:	Administrator of W. T. Lee Estate, Owner-Operator of Lee Coal Co., Waynesville, N. C. for 30 years;

5. Applicants are owners in fee simple of a one-ninth undivided interest each in and to the lands upon which project is contemplated.

6. There are no liens, encumbrances, adverse claims, against that portion of property upon which the project is contemplated. There is a mining lease to the Grassy Ridge Mine which is located upon the 6000 acre boundary, but said lease in no way covers the contemplated development or interferes therewith.

7. Not applicable.

8. Not applicable, because these applicants are not now actively operating a mine or mining project, or company.

9. None.

Section 2. The Property:

10. (a) General location is upon a 6000 acre boundary of land owned by W. T. Lee Heirs in the eastern end of Jackson County, North Carolina, approximately 5 miles south of Balsam, N. C. See attached Map for delineation of boundary. The Grassy Ridge Mica Mine, now operated by the Bradley Mining Co. of Franklin, N. C., is located upon this boundary, and is operated under a lease covering 700 acres.

(b) For exact locations of areas of proposed exploration projects, reference is made to attached map, upon which areas of exploration are delineated thereon in red pencil and marked "A", "B", "C", "D" and "E". Map to which reference is made is the Hazelwood Quadrangle Map, prepared by United States Department of the Interior, Geological Survey, by the Tennessee Valley Authority, Edition of 1948, Coordinates: North 3582.5, West 8800/7.5.

Boundary of W. T. Lee Heirs property is delineated in blue, and also the Bradley Mining Co. Lease.

11. Present name of Property: W. T. Lee Estate.
Former name of Property: Mead and Burr Tract.

12. Distances computed in answer to Item 12 are computed from area of location of most distant proposed exploration; all other exploration areas or locations are of decreasingly lesser distance towns, railroads, etc:

a. Proposed Project "A" is located 19 miles by road Southeast of Hazelwood, reached by 7 miles of paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of old logging road and trail.
b. Proposed Project "E" is located 13 miles South of Balsam, N. C., reached by 1 miles paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of logging road and trail.
c. Proposed Project "E" is located 25 miles by road South of Sylva, N. C., with paved road from Sylva to Balsam, N. C., thence remainder as in b. above.
d. Nearest rail shipping points from Project "A": 13 miles to Balsam, N. C.; 19 miles to Hazelwood, N. C.

Proposed Project "A" is most distant proposed exploration area. Distances of other projects to Balsam, N. C., may be computed by reference to attached maps.

13. Source of Water: All proposed projects are located near streams bearing ample supply during all seasons.

Source of Power: Carolina Power and Light Co., Western North Carolina Division.

Power rates: Exact rates unknown at this time, but estimated to cost approximately $175.00 per month for power to pull a minimum of 120 horsepower load, eight hours working day, 40 hours per week.

14. Existing facilities: None except roads and trails named in Item 12.

15. Ore may be trucked from mine to Balsam, N. C., 13 miles, for transhipment by rail to either Asheville, N. C., 40 miles, or to Franklin, N. C., 32 miles; or ore may be trucked from mine to Asheville, N. C., 50 miles by road from project, or to Franklin, N. C., 45 miles by road. Asheville, N. C., and Franklin, N. C., are nearest milling points.

16. "Big Flint Mica Mine", sometimes known as "Grassy Ridge Mine", is located upon same 6000 acre tract as are the proposed exploration areas, being located approximately in the northeast center of area of 6000 acre boundary. This mine has been producing mica for 50 years of good quality, both sheet and scrap. This mine also produces felspar. Previous explorations have consisted of ten 15 to 20 feet holes where mica has been found outcropping and some good grade sheet mica has been taken out. Lack of money and roads has been main reason for no further development or exploration. The biggest block of mica mined in North Carolina was mined in this area. This block was on display in Asheville, N. C., for several years. About 10 miles to the Northeast is located the the "Big Ridge Mica Mine".

17. Not applicable.

18. Ore or mineral reserves of mica are unknown, but are believed to be extensive from the number of outcroppings in area.

19. We have knowledge of ten outcroppings, and heard of more, but people would not tell us of their location.

SECTION 3. THE EXPLORATION:

20. Chief mineral and primary object of exploration will be sheet mica, with scrap mica and felspar as by-products. Copper and iron have also been found in general area.

21. Sufficient exploratory shafts to locate veins of sheet mica, for which it is estimated 180 working days will be required, for full exploration.

22. Geological basis of project is based upon past actual mining of mica in same area, there being two highly productive mines in area; see also 16 and 19 above.

SECTION 4. THE REQUIREMENTS AND COSTS:

23. The following estimate of costs is based upon a maximum of five explorations at five different exploration points being conducted simultaneously; should all five be not approved, costs would be scaled down accordingly.

(a) Labor:

Personnel	Daily Wage	Time	Cost
5 miners	$12.00	180 working days	$10,800
30 muckers	8.00	" " "	7,200
5 blacksmiths	18.00		16,200
1 bulldozer oper.	18.00		3,240
5 air compressor operators.	18.00		16,200
5 foreman	18.00		16,200
			$69,840.00

(b) Supervisors:

Superintendent: $800.00 per month, 9 mos. - - - -	$7,200.00	
Bookkeeper - - - 450.00 per month, 9 mos. - - - -	4,050.00	
Two stenographers - -$75.00 per week, 9 mos. - - -	5,400.00	
	$16,650.00	$16,500.00

(c) None.

(d)

Compressor houses and shops - - - - - - - -	$20,000.00	
Bunk house & Kitchens - - - - - - - - - - -	12,500.00	
Bunk houses & Kitchens equipment - - - -	12,500.00	
		35,000.00

(e) Equipment which must be purchased: estimated cost:

1 bulldozer - - - - - - - - - - - - - - - - -	$13,500.00	
5 compressors - - - - - - - - - - - - - - - -	32,500.00	
10 jack hammers - - - - - - - - - - - - - - -	3,500.00	
10 jack hammer steels - - - - - - - - - - -	5,000.00	
Small hand tools - - - - - - - - - - - - - -	500.00	
Blacksmith equipment - - - - - - - - - - - -	1,500.00	
Electric Welders - - - - - - - - - - - - - - -	2,625.00	
Electric Power Line - - - - - - - - - - - -	7,500.00	
Telephone lines - - - - - - - - - - - - - -	800.00	
3 miles of road - - - - - - - - - - - - - -	7,500.00	
		73,725.00

(f) Do not purpose to rent equipment.

(g) Materials and supplies:

Office rent - - - - - - -	$1200.00	
2 desks - - - - - - - -	250.00	
2 stenographers desks -	250.00	
2 typewriters - - - - -	375.00	
adding machine - - - -	150.00	
stationary - - - - - -	350.00	
Miscel. - - - - - - - -	2600.00	
		5,175.00

(h) Cost of Power:

Approximately $175.00 per month per compressor and bunk and kitchen installation. - - - - - - - - - - - - - -		5,250.00
Total Estimated Cost - - - - - - -		$205,490.00

24. Time schedule of project:

(1) Within 60 working days or 3 calendar months, it is expected that all funds for purchase of equipment, construction of roads, bunk houses, kitchens, and equipment, power lines and telephone lines, approximately one-third of cost for labor, and three calendar months for supervisors, will have been spend or committed, to the extent of approximately $106,600.00. It is further expected that all facilities, equipment, labor, will then be in readiness for the actual mining operations.

24. Time Schedule of project: (con't).

(2) Remaining 120 working days or six calendar months, to be used in actually opening and probing project areas for positive location of veins of sheet mica, consuming remaining balance of estimated cost.

C E R T I F I C A T I O N

The undersigned, W. Thomas Lee Jr., and R. L. Lee, hereby certify that the information contained in this form and accompanying papers
papers is correct and complete to the best of their knowledge and belief.

This the 28 day of May, 1951.

W. T. Lee

R. L. Lee

DESCRIPTION OF LOCATION OF PROPOSED SHEET MICA EXPLORATION SITES
LOCATED UPON THE LAND OF THE W. T. LEE HEIRS, JACKSON COUNTY,
NORTH CAROLINA.

"Prospected Exploration Project A":

BEGINNING on Haywood-Jackson County Line Ridge, west of Westner Balm, said point being N. 81 deg. East 300 feet from forks of ridge in wire fence on line, and running thence S. 11° 30' E. 125 to opening, thence S. 11° 30' E. 200 feet to a stake, thence N. 81° E. 200 feet to a stake, thence N. 11° 30' W. 325 feet to a stake, thence S. 81° W. 200 feet to BEGINNING.

"Proposed Exploration Project B":

BEGINNING on a point in branch, which point is 857 feet up the branch from the fork of Cabin Creek: Location S. 51° E. 134 feet to 40'' maple; thence S. 51° E. 100 feet to a stake, N. 33° E. 200feet to a stake N. 38° 15' W. 207 feet to a stake in branch, then down branch S. 49° 15' W. 135 feet, S 29° 45° W. 58 feet to the beginning.

"Proposed Exploration Project C":

Approximate location as shown on attached map.

"Proposed Exploration Project D":

BEGINNING on a 36'' buckeye on the north side of Dark Ridge Creek which is 375 feet below the forks of said creek as shown on map, and runs, N. 20° W. 200 feet to a stake, S. 52° W. 200 feet to a stake, S. 20° E. 200 feet to a stake, N. 52° E. 200 feet to a stake, the BEGINNING.

"Proposed Exploration Project E":

BEGINNING on a point in fence, which point is S. 77° 30' W 280 feet from the low point in Copper Mine Gap, and runs N. 44° W. 1748 feet to opening of an old exploration, and runs thence N. 80° W. 300 feet, N. 10° E. 300 feet, S. 80° E. 300 feet, S. 10° W. 300 feet to BEGINNING.

For further description of locations above, reference is to attached Map, Hazelwood Quadrangle, North Carolina, 175 -NE.

Other outcroppins of Mica are marked with an "X" at approximate location on map.

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 1399X

Date received 5-31-51

W. Thomas Lee Jr.
and
R. L. Lee,
Waynesville, North Carolina

Name and address of applicant

Date May 23, 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.

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? Sheet Mica,
   (*b*) What are the byproducts, if any? scrap mica, felspar.
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. See attached papers, and Form MF-103.
   (*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. VI
   (*c*) Township, Section, Range. See attached papers and form MF-103
   (*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:
   - [x] Owner, of two/ninths undivided interest in lands.
   - [ ] Lessee.
   - [ ] Contractor. See attached papers and Form MF-103
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.

STATEMENT OF INFORMATION TO ACCOMPANY MP-165.

GENERAL TECHNICAL DATA

C O P Y

Item 1. (a) Materials expected to be produced are chrome ores.
(b) Chief byproducts are heavy mica, feldspar.

Item 2. This question cannot now be answered in as much as information is furnished in connection with an exploration project upon areas of known outcroppings of ores, but upon which no operating mine has existed. However, the proposed exploration is within a short distance to one mine which has been in operation for 25 years, and is within 5 to 10 miles of at another operating mine, the names of which are the "Grassy Ridge Mica Mine" and the "Big Ridge Mica Mine".

Item 3. Proposed exploration is located 10 miles by road southeast of Hendersonville, N. C., reached by 7 miles of paved road, 4 miles of good dirt road, 3 miles of logging road, 5 miles of old logging road and trail. Location is 12 miles south of Balsam, N. C., reached by 1 mile of paved road, 4 miles of good dirt road, 3 miles of old dirt road, 3 miles of old logging road and trail. Location is 25 miles by road east of Sylva, N. C. with paved road from Sylva to Balsam, N. C., thence remainder as stated above. Nearest rail shipping points are Balsam, N. C., and Hendersonville, N. C.

Item 4. (a) Proposed exploration areas are not now in operation. However, there is a operating mica mine within 2½ miles.
(b) Applicants are two of nine holds at law of W. T. Lee and are therefore tenants in common in ownership of land. Should exploration project be approved, it is expected other tenants in common will joing in necessary legal arrangements.

Item 5. Cannot be answered at this time.
However, it may be stated that "Grassy Ridge Mica Mine" nearby has been operating for 30 years.

Item 6. Experience of operators:

W. Thomas Lee Jr. : Fifteen years experience with the Grassy Ridge Mica Mine, sometimes known as the Big Flint Mine. This applicant has also been in the construction business 4 years, operator of a general store 2 years, and is at present owner-operator of Twin City Bus Lines, and Twin City Wholesale Auto parts, Waynesville, N. C.

R. L. Lee, : Administrator of W. T. Lee Estate, owner-operator of Lee Coal Co., Waynesville, N. C., 30 years, and manager, general store, 15 years.

[illegible]

[illegible]

Item 1. [illegible]

Item 2. [illegible]

Item 3. [illegible]

Item 4. [illegible]

Item 5. [illegible]

Item 6. [illegible]

Item 7. History:

(a) Previous explorations have consisted of sinking of ten to fifteen test holes where mica has been found outcropping and some good grade sheet mica has been taken out. The Big Ring or Gunney Ridge Mica is located in some general area of proposed exploration project, a distance of 2 to 2½ miles. Lack of money and roads has been main reason for no further development. The largest block of sheet mica mined in North Carolina was mined in this area. Cynthy Ridge Mica has been producing for 20 years. From 2 to 12 miles northeast is located the Old Ridge Mica Mine which mica has been in production on prices of mica produced for 20 years or more.

Item 8. Name and address of Applicants:

J. Thomas Lee Jr., Hayesville, N. C.
R. L. Lee, Hayesville, N. C.

Item 9. Not applicable.

Item 10. Not applicable.

Item 11. Not applicable.

Item 12. Mineral Reserves: unknown, but believed to be extensive from number of outcroppings of sheet mica. Few outcroppings are known, and more have been heard of, but people keeping them would not divulge location. Exploration to determine reserves is proposed.

Item 13. Access roads: see item 12, Form MY-100, and item 9. MY-100.

Item 14. Water Supply: natural water supply ample at all seasons.

Item 15. Power: power, Carolina Power and Light Co., Western North Carolina, Division.
Water: canal water usual, will expected to run in neighborhood of $2.00 per month for power to operate 120 horsepower minimum load, 8 hours per working day, five days per week.

Item 16. See item 20 (a) MY-100, for anticipated labor and costs.

Item 17. Equipment and facilities: none.

Item 18.

(*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.

By _____
(Signature of authorized official)

_____
(Name of company)

_____
(Date)

_____
(Title)

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

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

Form MF-103
(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 1399X

Date received 5-31-51

Participation

W. Thomas Lee Jr., and
R. L. Lee,
Waynesville, N. C.

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $205,400.00

Mineral or metal Sheet Mica

Percentage of Government participation 90%

Location of mine Jackson County, North Carolina.

Date of filing MF-100

DMA Docket Number, if available dma 1399X

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.

---------- By ----------
(Name of company) (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.

*Same as footnote on page 1.

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

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 1399 X

Date received 5-31-51

W. Thomas Lee Jr.
and
R. L. Lee,
Waynesville, North Carolina

Name and address of applicant

Date May 28, 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.

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? Sheet Mica,
   (*b*) What are the byproducts, if any? Scrap Mica, Feldspar.
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. See attached papers, and Form MF-105.
   (*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. See attached papers and form MF-105
   (*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 mine/mine the undivided interest in lands.
   - ☐ Owner.
   - ☐ Lessee. See attached papers and Form MF-105
   - ☐ 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.

[illegible]

[illegible]

[illegible]

Item 8. History:

(a) Previous explorations have consisted of sinking of ten to fifteen feet holes where mica has been found outcropping and some gold prospect mica has been taken out. The Big Flat or Granny Ridge Mine is located in same general area of proposed exploration projects, a distance of 5 to 6½ miles. Lack of money and roads has been main reason for no further development. The largest block of sheet mica mined in North Carolina was mined in this area. Granny Ridge mine has been producing for 50 years. Some 9 to 10 miles northeast is located the Hit Ridge Mica Mine which Mica has been in production as pieces of mica justified for 50 years or more.

Item 9. Names and addresses of Applicants:

R. Thomas Lee Jr., Marshville, N. C.
R. L. Lee, Marshville, N. C.

Item 10. Not applicable.

Item 12. Not applicable.

Item 13. Not applicable.

Item 14. Mineral Reserves: unknown, but believed to be extensive from number of outcroppings of sheet mica. Two outcroppings are known, and mica have been found on, but people locating them would not divulge location. Exploration to determine reserves is proposed.

Item 15. Access Roads: See item 12, Form MF-102, and item 8. MF-100.

Item 16. Water Supply: natural water supply ample at all seasons.

Item 17. Power: remote, Carolina Power and Light Co., Western North Carolina, Division.
Rates: exact rates unknown, but expected to run in neighborhood of $1.75 per month for power to operate 150 horsepower minimum load, 8 hours per working day, five days per week.

Item 18. See item 22 (a) MF-100, for anticipated labor and costs.

Item 19. Equipment and Facilities: none.

Item 20.

(*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 R. R. Rice
(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

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 1399X

Date received 5-31-51

Participation

W. Thomas Lee Jr., and
R. L. Lee,
Waynesville, N. C.

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $205,490.00

Mineral or metal Sheet Mica

Percentage of Government participation 90%

Location of mine Jackson County, North Carolina.

Date of filing MF-100

DMA Docket Number, if available dma 1399X

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.

---------- By ----------
(Name of company) (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.

*Same as footnote on page 1.

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

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. dmm 1399X

Date received 5-31-51

[redacted]
and
[redacted]
Waynesville, North Carolina

Name and address of applicant

Date May 25, 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.

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? Sheet Mica.
   (*b*) What are the byproducts, if any? Scrap mica, feldspar.
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts. See attached papers, and Form MF-103.
   (*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. See attached papers and form MF-103
   (*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 of [redacted] undivided interest in lands.
   - ☐ Lessee.
   - ☐ Contractor. See attached papers and Form MF-103
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 res

[illegible]

[illegible]

[illegible]

Item 9. History:

(a) Previous exploration has consisted of sinking of two to fifteen foot holes where rich ore has been found outcropping and some gold grade ghost mine has been taken out. The Big Flat or Grassy Ridge Mine is located in some general area of proposed exploration projects, a distance of 2 to 3½ miles. Lack of money and roads has been main reason for no further development. The largest block of short mine mines in North Carolina was mined in this area. Grassy Ridge Mine has been producing for 50 years. Some 5 to 10 miles northeast is located the Big Ridge Mine Mine which also has been in production for periods of mine functional for 25 years or more.

Item 10. Owner and address of application:

Mr. Thomas Lee Jr., Waynesville, N. C.
Mr. L. Lee, Waynesville, N. C.

Item 11. Not applicable.

Item 12. Not applicable.

Item 13. Not applicable.

Item 14. Mineral Reserves: unknown, but believed to be extensive from number of outcroppings of short mine. Ten outcroppings are known, and some have been taken out, but people locating them would not divulge location. Exploration of underlain reserves is proposed.

Item 15. Access roads: see item 16, Page MY-156, and item 5. MY-160.

Item 16. Water Supply: natural water supply ample at all seasons.

Item 17. Power: source, Carolina Power and Light Co., Western North Carolina, Division.
Rates: exact rates unknown, but expected to run in neighborhood of $25 per month for power to operate 100 horsepower minimum load, 8 hours per working day, five days per week.

Item 18. See item 26 (a) MY-160, for unskilled labor and costs.

Item 19. Equipment and facilities: none.

Item 20.

[illegible]

(*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.

By _____ (Signature of authorized official)

_____ (Name of company)

_____ (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

WAYNESVILLE, NORTH CAROLINA
MAY 19, 1952

TO: THE FIELD EXECUTIVE OFFICE
DEFENSE MINERALS ADMINISTRATIONS
ROOM 13, POST OFFICE BLDG.
KNOXVILLE, TENNESSEE

SUBJECT: APPLICATION FOR AID FOR EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER THE DEFENSE PRODUCTION ACT OF 1950.

APPLICATION: Section 1. The Applicant.

1. Applicants are individuals, who are tenants in common in ownership in in fee simple in a 6000 acre boundary of land in Jackson County, North Carolina; for the purposes of this application, applicants shall be deemed a partnership. Should this application be approved, the formation of a corporation is contemplated, and assignment of the exploration project contract to the corporation, together with an exploratory lease for the purpose obtained from remaining tenants in common not included in this application. Applicants are two of nine heirs at law of W. T. Lee, deceased. R. L. Lee, one of applicants, is Administrator of the Estate of W. T. Lee. It is expected that other heirs, who are also tenants in common in ownership of land, will join in necessary legal arrangements, should this project be approved.

2. Names and addresses of Applicants:

   W. Thomas Lee, Jr., Waynesville, N. C.

   R. L. Lee, Waynesville, N. C.

3. Not applicable.

4. Mining and general experience of applicants who will also supervise operations:

W. Thomas Lee, Waynesville, N. C.:	Fifteen years experience with the Grassy Ridge Mica Mine, Jackson County, sometimes known as the "Big Flint Mine." This applicant has also been in construction work 4 years, operator of a General Store for 8 years, and is at present Owner-Operator of Twin City Bus Lines, Waynesville, N. C., and Twin City Wholesale Auto Parts Store, Waynesville, N. C.
R. L. Lee, Waynesville, N. C.:	Administrator of W. T. Lee Estate, Owner-Operator of Lee Coal Co., Waynesville, N. C. for 30 years;

5. Applicants are owners in fee simple of a one-ninth undivided interest each in and to the lands upon which project is contemplated.

6. There are no liens, encumbrances, adverse claims, against that portion of property upon which the project is contemplated. There is a mining lease to the Grassy Ridge Mine which is located upon the 6000 acre boundary, but said lease in no way covers the contemplated development or interferes therewith.

7. Not applicable.

8. Not applicable, because these applicants are not now actively operating a mine or mining project, or company.

9. None.

Section 2. The Property:

10. (a) General location is upon a 6000 acre boundary of land owned by W. T. Lee Heirs in the eastern end of Jackson County, North Carolina, approximately 5 miles south of Balsam, N. C. See attached Map for delineation of boundary. The Grassy Ridge Mica Mine, now operated by the Bradley Mining Co. of Franklin, N. C., is located upon this boundary, and is operated under a lease covering 700 acres.

(b) For exact locations of areas of proposed exploration projects, reference is made to attached map, upon which areas of exploration are delineated thereon in red pencil and marked "A", "B", "C", "D" and "E". Map to which reference is made is the Hazelwood Quadrangle Map, prepared by United States Department of the Interior, Geological Survey, by the Tennessee Valley Authority, Edition of 1948, Coordinates: North 3582.5, West 8300/7.5.

Boundary of W. T. Lee Heirs property is delineated in blue, and also the Bradley Mining Co. Lease.

11. Present name of Property: W. T. Lee Estate.
Former name of Property: Mead and Burr Tract.

12. [redacted] in answer to Item 12 are computed from area of location of most distant proposed exploration; all other exploration areas or locations are of decreasingly lesser distance towns, railroads, etc:

a. Proposed Project "A" is located 19 miles by road Southeast of Hazelwood, reached by 7 miles of paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of old logging road and trail.
b. Proposed Project "B" is located 13 miles South of Balsam, N. C., reached by 1 miles paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of logging road and trail.
c. Proposed Project "C" is located 25 miles by road South of Sylva, N. C., with paved road from Sylva to Balsam, N. C., thence remainder as in b. above.
d. Nearest rail shipping points from Project "A": 13 miles to Balsam, N. C.; 19 miles to Hazelwood, N. C.

Proposed Project "E" is most distant proposed exploration area. Distances of other projects to Balsam, N. C., may be computed by reference to attached maps.

13. Source of Water: All proposed projects are located near streams bearing ample supply during all seasons.

Source of Power: Carolina Power and Light Co., Western North Carolina Division.
Power rates: Exact rates unknown at this time, but estimated to cost approximately $175.00 per month for power to pull a minimum of 120 horsepower load, eight hours working day, 40 hours per week.

14. Existing facilities: None except roads and trails named in Item 12.

15. Ore may be trucked from mine to Balsam, N. C., 13 miles, for transhipment by rail to either Asheville, N. C., 40 miles, or to Franklin, N. C., 32 miles; or ore may be trucked from mine to Asheville, N. C., 50 miles by road from project, or to Franklin, N. C., 45 miles by road. Asheville, N. C., and Franklin, N. C., are nearest milling points.

16. "Big Flint Mica Mine", sometimes known as "Grassy Ridge Mine", is located upon same 6000 acre tract as are the proposed exploration areas, being located approximately in the northeast center of area of 6000 acre boundary. This mine has been producing mica for 50 years of good quality, both sheet and scrap. This mine also produces felspar. Previous explorations have consisted of ten 15 to 20 foot holes where mica has been found outcropping and some good grade sheet mica has been taken out. Lack of money and roads has been main reason for no further development or exploration. The biggest block of mica mined in North Carolina was mined in this area. This block was on display in Asheville, N. C., for several years. About 10 miles to the Northeast is located the the "Big Ridge Mica Mine".

17. Not applicable.

18. Ore or mineral reserves of mica are unknown, but are believed to be extensive from the number of outcroppings in area.

19. We have knowledge of ten outcroppings, and heard of more, but people would not tell us of their location.

SECTION 3. THE EXPLORATION:

20. Chief mineral and primary object of exploration will be sheet mica, with scrap mica and felspar as by-products. Copper and iron have also been found in general area.

21. Sufficient exploratory shafts to locate veins of sheet mica, for which it is estimated 180 working days will be required, for full exploration.

22. Geological basis of project is based upon past actual mining of mica in same area, there being two highly productive mines in area; see also 16 and 19 above.

SECTION 4. THE REQUIREMENTS AND COSTS:

23. The following estimate of costs is based upon a maximum of five explorations at five different exploration points being conducted simultaneously; should all five be not approved, costs would be scaled down accordingly.

(a) Labor:

Personnel	Daily Wage	Time	Cost
5 miners	$12.00	180 working days	$10,800
30 muckers	8.00	" " "	7,200
5 blacksmiths	18.00		16,200
[illegible]ser oper.	18.00		3,240
5 air compressor operators.	18.00		16,200
5 foremen	18.00		16,200
			$69,840.00

(b) Supervisors:

Superintendent: $800.00 per month, 9 mos. - - - -	$7,200.00	
Bookkeeper - - - 450.00 per month, 9 mos. - - - -	4,050.00	
Two stenographers - $75.00 per week, 9 mos. - - -	5,400.00	
	$16,650.00	$16,500.00

(c) None.

(d)

Compressor houses and shops - - - - - - -	$10,000.00	
Bunk house & Kitchens - - - - - - - - - -	12,500.00	
Bunk houses & Kitchens equipment 0 - - -	12,500.00	
		35,000.00

(e) Equipment which must be purchased: estimated cost:

1 bulldozer - - - - - - - - - - - - - - - - -	$13,500.00	
2 compressors - - - - - - - - - - - - - - - -	32,500.00	
10 jack hammers - - - - - - - - - - - - - - -	3,500.00	
10 jack hammer steels - - - - - - - - - - -	5,000.00	
Small hand tools - - - - - - - - - - - - - -	500.00	
Blacksmith equipment - - - - - - - - - - - -	1,500.00	
Electric Welders - - - - - - - - - - - - - - -	2,625.00	
Electric Power Line - - - - - - - - - - - -	7,500.00	
Telephone lines - - - - - - - - - - - - - -	800.00	
3 miles of road - - - - - - - - - - - - - -	7,500.00	
		75,725.00

(f) Do not propose to rent equipment.

(g) Materials and supplies:

Office rent - - - - - - -	$1200.00	
2 desks - - - - - - - -	250.00	
2 stenographers desks -	250.00	
2 typewriters - - - - -	375.00	
adding machine - - - -	150.00	
stationary - - - - - -	350.00	
Miscel. - - - - - - - -	2500.00	
		5,175.00

(h) Cost of Power:

Approximately $175.00 per month per compressor and bunk and kitchen installation. - - - - - - - - - - - - - -	5,250.00
Total Estimated Cost - - - - - - -	$205,490.00

24. Time schedule of project:

(1) Within 60 working days or 3 calendar months, it is expected that all funds for purchase of equipment, construction of roads, bunk houses, kitchens, and equipment, power lines and telephone lines, approximately one-third of cost for labor, and three calendar months for supervisors, will have been spend or committed, to the extent of approximately $106,600.00. It is further expected that all facilities, equipment, labor, will then be in readiness for the actual mining operations.

24. Time Schedule of project: (con't).

(2) Remaining 120 working days or six calendar months, to be used in actually opening and probing project areas for positive location of veins of sheet mica, consuming remaining balance of estimated cost.

C E R T I F I C A T I O N

The undersigned, W. Thomas Lee Jr., and R. L. Lee, hereby certify that the information contained in this form and accompanying papers
papers is correct and complete to the best of their knowledge and belief.

This the 28 day of May, 1951.

W. Thomas Lee Jr.

R. L. Lee

DESCRIPTION OF LOCATION OF PROPOSED SHEET MICA EXPLORATION SITES
LOCATED UPON THE LAND OF THE W. T. LEE HEIRS, JACKSON COUNTY,
NORTH CAROLINA.

"Prospected Exploration Project A":
BEGINNING on Haywood-Jackson County Line Ridge, west of Westner Bald, /said point being N. 81 deg. East 300 feet from forks of ridge in wire fence on line, and running thence S. 11° 30' E. 125 to opening, thence S. 11° 30' E. 200 feet to a stake, thence N. 81° E. 200 feet to a stake, thence N. 11° 30' W. 325 feet to a stake, thence S. 81° W. 200 feet to BEGINNING.

"Proposed Exploration Project B":
BEGINNING on a point in branch, which point is 857 feet up the branch from the fork of Cabin Creek: Location S. 51° E. 135 feet to 40'' maple; thence S. 51° E. 100 feet to a stake, N. 35° E. 200feet to a stake, N. 59° 15' W. 207 feet to a stake in branch, then down branch S. 49° 15' W. 135 feet, S 29° 45° W. 52 feet to the beginning.

"Proposed Exploration Project C":

Approximate location as shown on attached map.

"Proposed Exploration Project D":
BEGINNING on a 36'' buckeye on the north side of Dark Ridge Creek which is 375 feet below the forks of said creek as shown on map, and runs, N. 20° W. 200 feet to a stake, S. 52° W. 200 feet to a stake, S. 20° E. 200 feet to a stake, N. 52° E. 200 feet to a stake, the BEGINNING.

"Proposed Exploration Project E":
BEGINNING on a point in fence, which point is S. 77° 30' W 280 feet from the low point in Copper Mine Gap, and runs N. 44° W. 1748 feet to opening of an old exploration, and runs thence N. 80° W. 300 feet, N. 10° E. 300 feet, S. 80° E. 300 feet, S. 10° W. 300 feet to BEGINNING.

For further description of locations above, reference is to attached Map, Hazelwood Quadrangle, North Carolina, 175 -NE.

Other outcroppins of Mica are marked with an "X" at approximate location on map.

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. dmm 1399X

Date received 5-31-51

W. Thomas Lee Jr.
and
R. L. Lee,
Waynesville, North Carolina

Name and address of applicant

Date May 23, 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.

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? Sheet Mica,
   (*b*) What are the byproducts, if any? scrap mica, felspar.
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. See attached papers, and Form MF-103.
   (*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. See attached papers and form MF-103
   (*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, of two/nineths undivided interest in lands.
   ☐ Lessee.
   ☐ Contractor.
5. Number of years in production See attached papers and Form MF-103

   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.

STATEMENT OF INFORMATION TO ACCOMPANY MF-103.

GENERAL TECHNICAL DATA

Item 1. (a) Materials expected to be produced are sheet mica.
(b) Chief byproducts are scrap mica, felspar.

Item 2. This question cannot now be answered in as much as information is furnished in connection with an exploration project upon areas of known outcroppings of mica, but upon which no operating mine has existed. However, the proposed exploration is within a short distance to one mica mine which has been in oppration for 50 years, and is within 5 to 10 miles of of another operating mica mine, the names of which are the "Grassy Ridge Mica Mine" and the "Big Ridge Mica Mine".

Item 3. Proposed exploration is located 19 miles by road southeast of Hazelwood, N. C., reached by 7 miles of paved road, 4 miles of good dirt road, 3 miles of logging road, 5 miles of old logging road and trail. Location is 13 miles south of Balsam, N. C., reached by 1 mile of paved road, 4 miles of good dirt road, 5 miles of old dirt road, 5 miles of old logging road and trail. Location is 25 miles by road East of Sylva, N. C. with paved road from Sylva to Balsam, N. C., thence remainder as stated above. Nearest rail shipping points are Balsam, N. C., and Hazelwood, N. C.

Item 4. (a) Proposed exploration areas are not now in operation. However, There is a operating mica mine within 2½ miles.
(b) Applicants are two of nine heirs at law of W. T. Lee and are therefore tenants in common in ownership of land. Should exploration project be approved, it is expected other tenants in common will joing in necessary legal arrangements.

Item 5. Cannot be answered at this time.
However, it may be stated that "Grassy Ridge Mica Mine" nearby has been opprating for 50 years.

Item 6. Experience of operators:

W. Thomas Lee Jr. : Fifteen years experience with the Grassy Ridge Mica Mine, sometimes known as the Big Flint Mine. This applicant has also been in the construction business 4 years, operator of a general store 8 years, and is at present owner-operator of Twin City Bus Lines, and Twin City Wholesale Auto parts, Waynesville, N. C.

R. L. Lee, : Administrator of W. T. Lee Estate, owner-operator of Lee Coal Co., Waynesville, N. C., 30 years, and manager, general store, 10 years.

It

Item 7. History:

(a) Previous explorations have consisted of sinking of ten to fifteen foot holes where mica has been found outcropping and some good grade sheet mica has been taken out. The Big Flint or Grassy Ridge Mine is located in same general area of proposed exploration projects, a distance of 2 to 2½ miles. Lack of money and roads have been main reason for no further development. The largest block of sheet mica mined in North Carolina was mined in this area. Grassy Ridge Mine has been producing for 50 years. Some 5 to 10 miles northeast is located the Bid Ridge Mica Mine which also has been in production as prices of mica justified for 50 years or more.

Item 8. Names and addresses of Applicants:

W. Thomas Lee Jr., Waynesville, N. C.
R. L. Lee, Waynesville, N. C.

Item 9. Not applicable.

Item 10. Not applicable.

Item 11. Not applicable.

Item 12. Mineral Reserves: unknown, but believed to be extensive from number of outcroppings of sheet mica. Ten outcroppings are known, and more have been heard of, but people locating them would not divulge location. Exploration to ascertain reserves is proposed.

Item 13. Access roads: see item 12, Form MF-103, and item 5. MF-100.

Item 14. Water Supply: natural water supply ample at all seasons.

Item 15. Power: source, Carolina Power and Light Co., Western North Carolina, Division.
Rates: exact rates unknown, but expected to run in neighborhood of $175 per month for power to operate 120 horsepower minimum load, 8 hours per working day, five days per week.

Item 16. See item 23 (a) MF-103, for anticipated labor and costs.

Item 17. Equipment and facilities: none.

Item 18.

(*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

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 1399X

Date received 5-31-51

Participation

W. Thomas Lee Jr., and
R. L. Lee,
Waynesville, N. C.

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $205,490.00

Mineral or metal Sheet Mica

Percentage of Government participation 90%

Location of mine Jackson County, North Carolina.

Date of filing MF-100

DMA Docket Number, if available dma 1399X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

---------- (Name of company) By ---------- (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.

*Same as footnote on page 1.

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

WAYNESVILLE, NORTH CAROLINA
MAY 19, 1951

TO: THE FIELD EXECUTIVE OFFICE
DEFENSE MINERALS ADMINISTRATIONS
ROOM 13, POST OFFICE BLDG.
KNOXVILLE, TENNESSEE

SUBJECT: APPLICATION FOR AID FOR EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER THE DEFENSE PRODUCTION ACT OF 1950.

APPLICATION: Section 1. The Applicant.

1. Applicants are individuals, who are tenants in common in ownership in in fee simple in a 6000 acre boundary of land in Jackson County, North Carolina; for the purposes of this application, applicants shall be deemed a partnership. Should this application be approved, the formation of a corporation is contemplated, and assignment of the exploration project contract to the corporation, together with an exploratory lease for the purpose obtained from remaining tenants in common not included in this application. Applicants are two of nine heirs at law of W. T. Lee, deceased. R. L. Lee, one of applicants, is Administrator of the Estate of W. T. Lee. It is expected that other heirs, who are also tenants in common in ownership of land, will join in necessary legal arrangements, should this project be approved.

2. Names and addresses of Applicants:

   W. Thomas Lee, JR. Waynesville, N. C.

   R. L. Lee, Waynesville, N. C.

3. Not applicable.

4. Mining and general experience of applicants who will also supervise operations:

W. Thomas Lee, Waynesville, N. C.:	Fifteen years experience with the Grassy Ridge Mica Mine, Jackson County, sometimes known as the "Big Flint Mine." This applicant has also been in construction work 4 years, operator of a General Store for 8 years, and is at present Owner-Operator of Twin City Bus Lines, Waynesville, N. C., and Twin City Wholesale Auto Parts Store, Waynesville, N. C.
R. L. Lee, Waynesville, N. C.:	Administrator of W. T. Lee Estate, Owner-Operator of Lee Coal Co., Waynesville, N. C. for 30 years;

5. Applicants are owners in fee simple of a one-ninth undivided interest each in and to the lands upon which project is contemplated.

6. There are no liens, encumbrances, adverse claims, against that portion of property upon which the project is contemplated. There is a mining lease to the Grassy Ridge Mine which is located upon the 6000 acre boundary, but said lease in no way covers the contemplated development or interferes therewith.

7. Not applicable.

8. Not applicable, because these applicants are not now actively operating a mine or mining project, or company.

9. None.

Section 2. The Property:

10. (a) General location is upon a 6000 acre boundary of land owned by W. T. Lee Heirs in the eastern end of Jackson County, North Carolina, approximately 3 miles south of Balsam, N. C. See attached Map for delineation of boundary. The Grassy Ridge Mica Mine, now operated by the Bradley Mining Co. of Franklin, N. C., is located upon this boundary, and is operated under a lease covering 700 acres.

(b) For exact locations of areas of proposed exploration projects, reference is made to attached map, upon which areas of exploration are delineated thereon in red pencil and marked "A", "B", "C", "D" and "E". Map to which reference is made is the Hazelwood Quadrangle Map, prepared by United States Department of the Interior, Geological Survey, by the Tennessee Valley Authority, Edition of 1942, Coordinates: North 3522.5, West 8300/7.5.

Boundary of W. T. Lee Heirs property is delineated in blue, and also the Bradley Mining Co. Lease.

11. Present name of Property: W. T. Lee Estate.
Former name of Property: Mead and Burr Tract.

12. Distances computed in answer to Item 12 are computed from area of location of most distant proposed exploration; all other exploration areas or locations are of decreasingly lesser distance towns, railroads, etc:

a. Proposed Project "E" is located 19 miles by road Southeast of Hazelwood, reached by 7 miles of paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of old logging road and trail.

b. Proposed Project "E" is located 13 miles South of Balsam, N. C., reached by 1 miles paved road, 4 miles of good dirt road, 3 miles of old dirt road, 5 miles of logging road and trail.

c. Proposed Project "E" is located 25 miles by road EAST of Sylva, N. C., with paved road from Sylva to Balsam, N. C., thence remainder as in b. above.

d. Nearest rail shipping points from Project "A": 13 miles to Balsam, N. C.; 19 miles to Hazelwood, N. C.

Proposed Project "E" is most distant proposed exploration area. Distances of other projects to Balsam, N. C., may be computed by reference to attached maps.

13. Source of Water: All proposed projects are located near streams bearing ample supply during all seasons.

Source of Power: Carolina Power and Light Co., Western North Carolina Division.

Power rates: Exact rates unknown at this time, but estimated to cost approximately $175.00 per month for power to pull a minimum of 120 horsepower load, eight hours working day, 40 hours per week.

14. Existing facilities: None except roads and trails named in Item 12.

15. Ore may be trucked from mine to Balsam, N. C., 13 miles, for transhipment by rail to either Asheville, N. C., 40 miles, or to Franklin, N. C., 32 miles; or ore may be trucked from mine to Asheville, N. C., 50 miles by road from project, or to Franklin, N. C., 45 miles by road. Asheville, N. C., and Franklin, N. C., are nearest milling points.

16. "Big Flint Mica Mine", sometimes known as "Grassy Ridge Mine", is located upon same 6000 acre tract as are the proposed exploration areas, being located approximately in the northeast center of area of 6000 acre boundary. This mine has been producing mica for 50 years of good quality, both sheet and scrap. This mine also produces felspar. Previous explorations have consisted of ten 15 to 20 foot holes where mica has been found outcropping and some good grade sheet mica has been taken out. Lack of money and roads has been main reason for no further development or exploration. The biggest block of mica mined in North Carolina was mined in this area. This block was on display in Asheville, N. C., for several years. About 10 miles to the Northeast is located the the "Big Ridge Mica Mine".

17. Not applicable.

18. Ore or mineral reserves of mica are unknown, but are believed to be extensive from the number of outcroppings in area.

19. We have knowledge of ten outcroppings, and heard of more, but people would not tell us of their location.

SECTION 3. THE EXPLORATION:

20. Chief mineral and primary object of exploration will be sheet mica, with scrap mica and felspar as by-products. Copper and iron have also been found in general area.

21. Sufficient exploratory shafts to locate veins of sheet mica, for which it is estimated 180 working days will be required, for full exploration.

22. Geological basis of project is based upon past actual mining of mica in same area, there being two highly productive mines in area; see also 16 and 19 above.

SECTION 4. THE REQUIREMENTS AND COSTS:

23. The following estimate of costs is based upon a maximum of five explorations at five different exploration points being conducted simultaneously; should all five be not approved, costs would be scaled down accordingly.

(a) Labor:

Personnel	Daily Wage	Time	Cost
5 miners	$12.00	180 working days	$10,800
30 muckers	8.00	" " "	7,200
5 blacksmiths	18.00		16,200
1 bulldozer oper.	18.00		3,240
5 air compressor operators.	18.00		16,200
5 foreman	18.00		16,200
			$69,840.00

(b) Supervisors:

Superintendent: $800.00 per month, 9 mos. - - - -	$7,200.00	
Bookkeeper - - - 450.00 per month, 9 mos. - - - -	4,050.00	
Two stenographers - - $75.00 per week, 9 mos. - -	5,400.00	
	$16,650.00	$16,500.00

(c) None.

(d)

Compressor houses and shops - - - - - - - -	$10,000.00	
Bunk house & Kitchens - - - - - - - - - - -	12,500.00	
Bunk houses & Kitchens equipment - - -	12,500.00	
		35,000.00

(e) Equipment which must be purchased: estimated cost:

1 bulldozer - - - - - - - - - - - - - - - - -	$13,500.00	
5 compressors - - - - - - - - - - - - - - - -	32,500.00	
10 jack hammers - - - - - - - - - - - - - - -	3,500.00	
10 jack hammer steels - - - - - - - - - - -	5,000.00	
Small hand tools - - - - - - - - - - - - - -	500.00	
Blacksmith equipment - - - - - - - - - - - - -	1,500.00	
Electric Welders - - - - - - - - - - - - - - -	1,625.00	
Electric Power Line - - - - - - - - - - - -	7,500.00	
Telephone lines - - - - - - - - - - - - - -	500.00	
3 miles of road - - - - - - - - - - - - -	7,500.00	
		73,725.00

(f) Do not propose to rent equipment.

(g) Materials and supplies:

Office rent - - - - - - -	$1200.00	
2 desks - - - - - - - - -	250.00	
2 stenographers desks -	250.00	
2 typewriters - - - - -	375.00	
adding machine - - - -	150.00	
stationary - - - - - -	350.00	
Miscel. - - - - - - - -	2500.00	
		5,175.00

(h) Cost of Power:

Approximately $175.00 per month per compressor and bunk and kitchen installation. - - - - - - - - - - - - - -	5,250.00
Total Estimated Cost - - - - - - -	$205,490.00

24. Time schedule of project:

(1) Within 60 working days or 3 calendar months, it is expected that all funds for purchase of equipment, construction of roads, bunk houses, kitchens, and equipment, power lines and telephone lines, approximately one-third of cost for labor, and three calendar months for supervisors, will have been spend or committed, to the extent of approximately $106,600.00. It is further expected that all facilities, equipment, labor, will then be in readiness for the actual mining operations.

24. Time Schedule of project: (con't).

(2) Remaining 120 working days or six calendar months, to be used in actually opening and probing project areas for positive location of veins of sheet mica, consuming remaining balance of estimated cost.

C E R T I F I C A T I O N

The undersigned, W. Thomas Lee Jr., and R. L. Lee, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

This the 28 day of May, 1951.

W. T. Lee Jr.

R. L. Lee

DESCRIPTION OF LOCATION OF PROPOSED SHEET MICA EXPLORATION SITES LOCATED UPON THE LAND OF THE W. T. LEE HEIRS, JACKSON COUNTY, NORTH CAROLINA.

"Prospected Exploration Project A":

BEGINNING on Haywood-Jackson County Line Ridge, west of Westner Ball, said point being N. 81 deg. East 300 feet from forks of ridge in wire fence on line, and running thence S. 11° 30' E. 125 to opening, thence S. 11° 30' E. 200 feet to a stake, thence N. 81° E. 200 feet to a stake, thence N. 11° 30' W. 325 feet to a stake, thence S. 81° W. 200 feet to BEGINNING.

"Proposed Exploration Project B":

BEGINNING on a point in branch, which point is 857 feet up the branch from the fork of Cabin Creek: Location S. 51° E. 134 feet to 40'' maple; thence S. 51° E. 100 feet to a stake, N. 33° E. 200feet to a stake, N. 58° 15' W. 207 feet to a stake in branch, then down branch S. 49° 15' W. 135 feet, S 29° 45' W. 52 feet to the beginning.

"Proposed Exploration Project C":

Approximate location as shown on attached map.

"Proposed Exploration Project D":

BEGINNING on a 36'' buckeye on the north side of Dark Ridge Creek which is 375 feet below the forks of said creek as shown on map, and runs, N. 20° W. 200 feet to a stake, S. 52° W. 200 feet to a stake, S. 20° E. 200 feet to a stake, N. 52° E. 200 feet to a stake, the BEGINNING.

"Proposed Exploration Project E":

BEGINNING on a point in fence, which point is S. 77° 30' W 280 feet from the low point in Copper Mine Gap, and runs N. 44° W. 1748 feet to opening of an old exploration, and runs thence N. 80° W. 300 feet, N. 10° E. 300 feet, S. 80° E. 300 feet, S. 10° W. 300 feet to BEGINNING.

For further description of locations above, reference is to attached Map, Hazelwood Quadrangle, North Carolina, 175 -NE.

Other outcroppins of Mica are marked with an "X" at approximate location on map.

MF-200
(June 1951)

Docket No. DMA 1399 X
Commodity Mica.

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] .....

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of North Carolina, County of Jackson described as follows: [3] that portion of

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: .....

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within ..... days from the date of this contract shall commence work on a project of exploration for [5] .....; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] ..... from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of _____ percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $_____, which is _____ percent of the agreed estimated total cost of this project, $_____.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

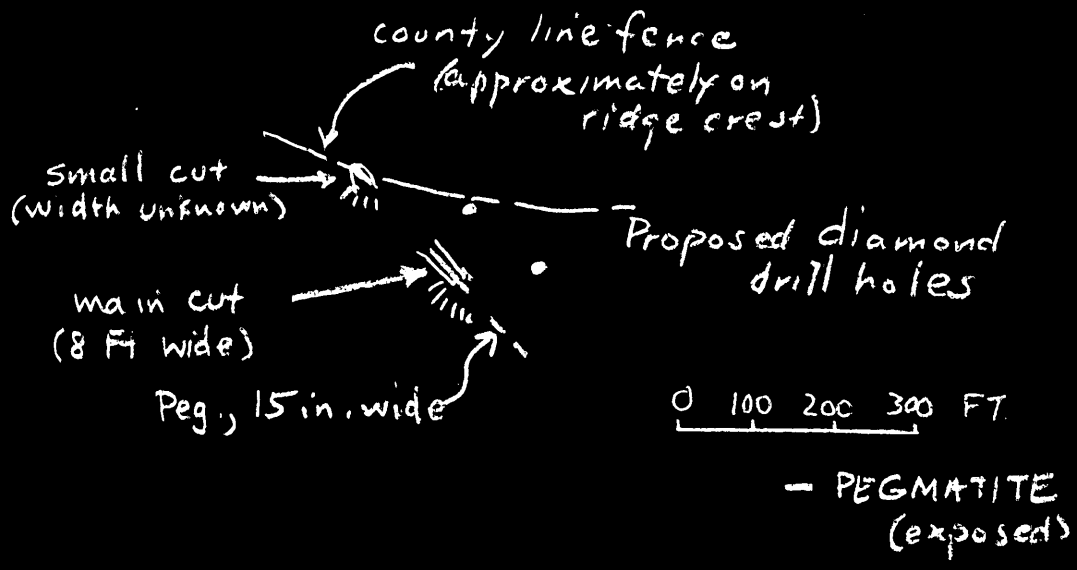
THE UNITED STATES OF AMERICA

_____
(Operator)

By _____

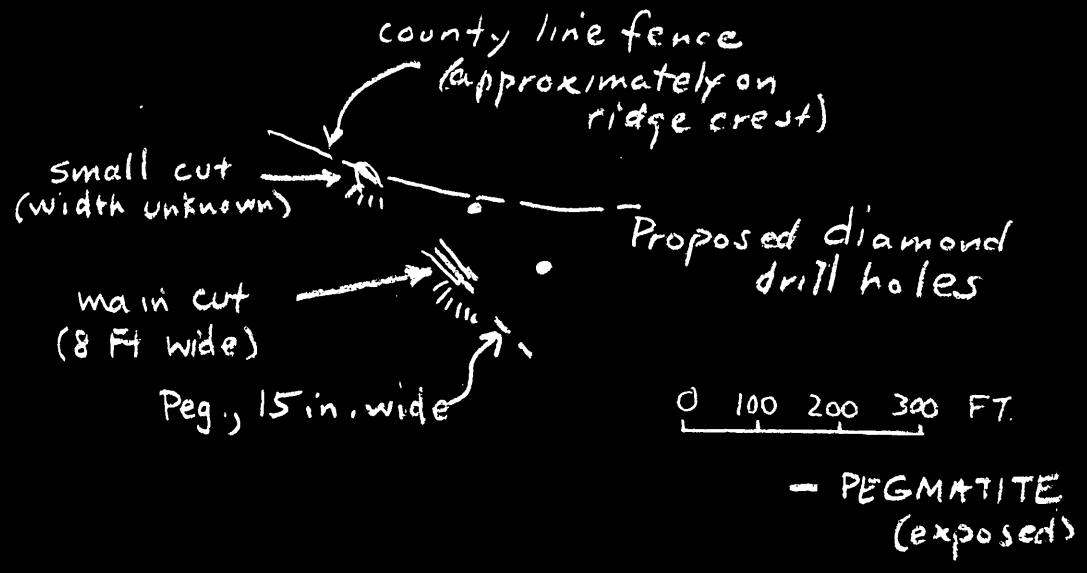
By _____

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2



Prospect "A"
DMA-1399 X
W. Thos. Lee

X



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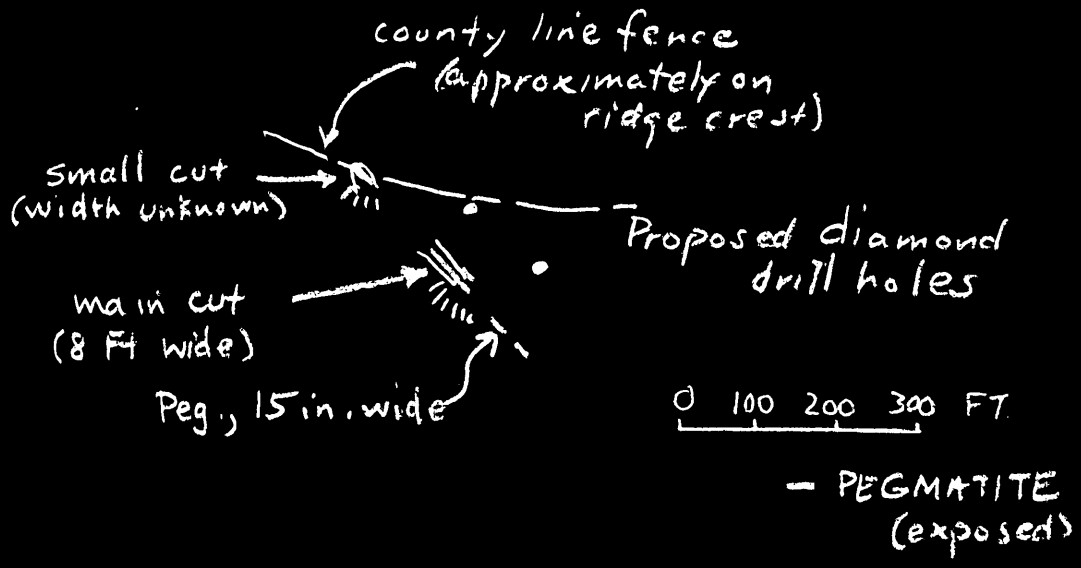

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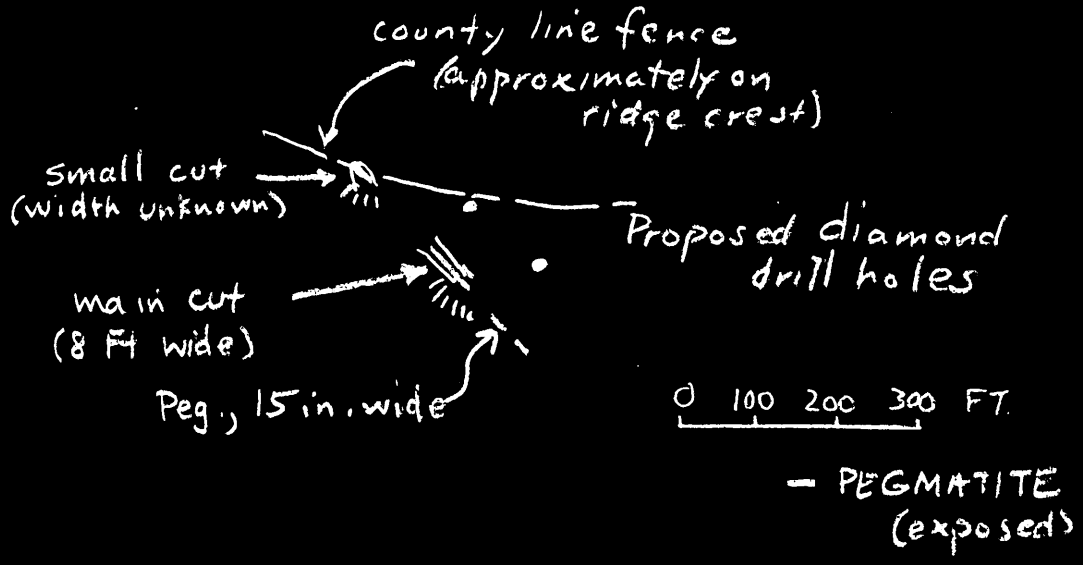

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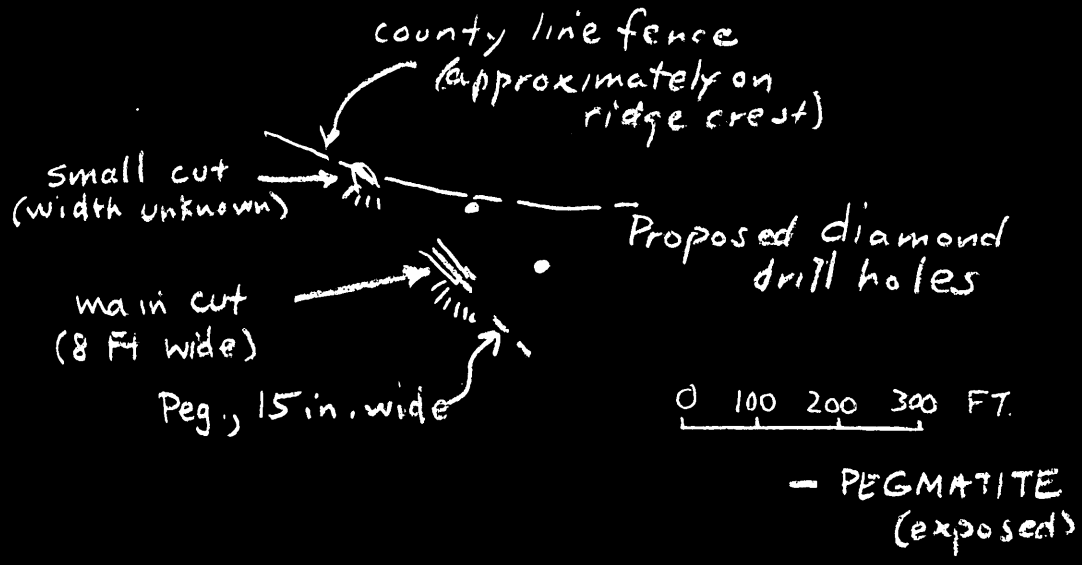

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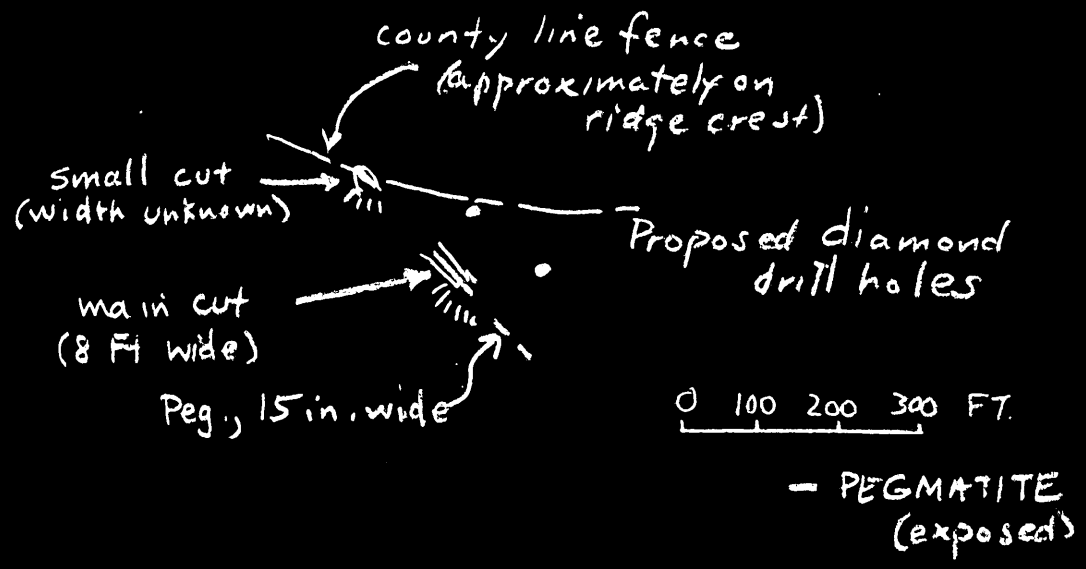
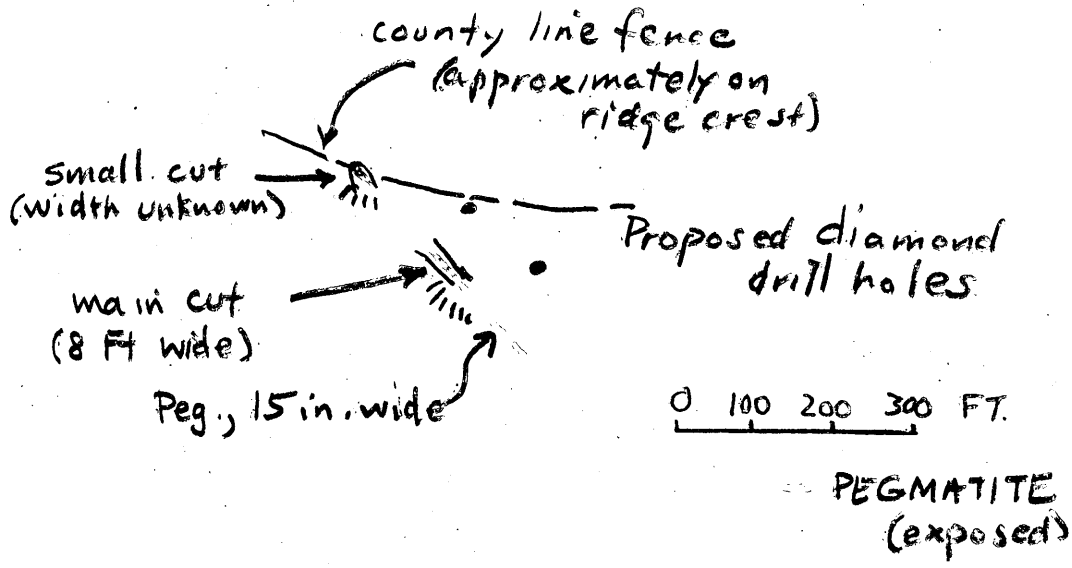


Prospect "A"
DMA-1399 X
W. Thos. Lee

X



Prospect "A"
DMA-1399 X
W. Thos. Lee

X

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
TENNESSEE VALLEY AUTHORITY
MAPS AND SURVEYS DIVISION

NORTH CAROLINA
HAZELWOOD QUADRANGLE
175-NE

SOLID RED LINE = W.T. LEE HEIRS 6000 TRACT
LETTERED BOXES = PROPOSED EXPLORATION PROJECTS
OTHER OUTCROPPINGS OF MICA = X
(approximate locations)

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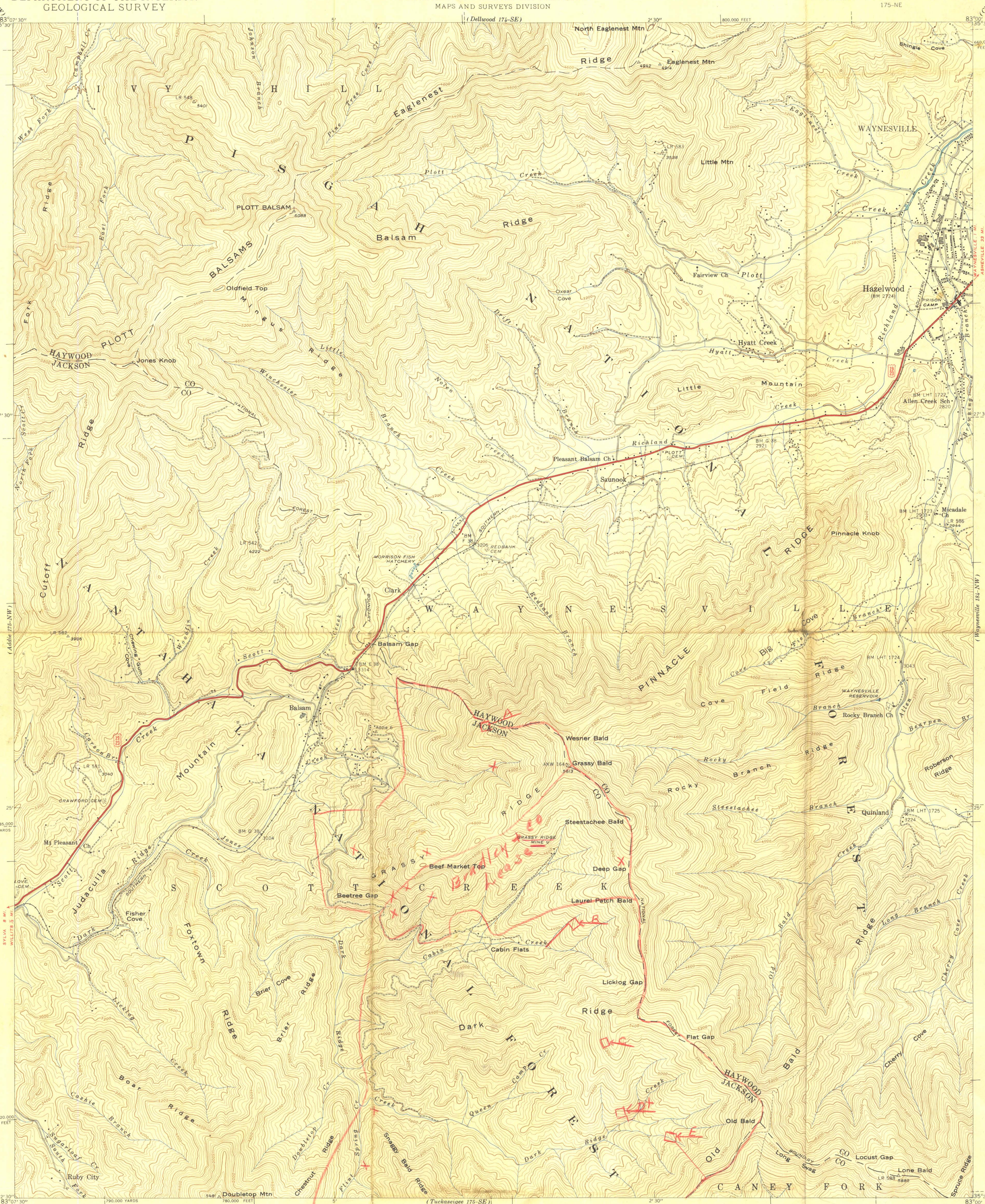

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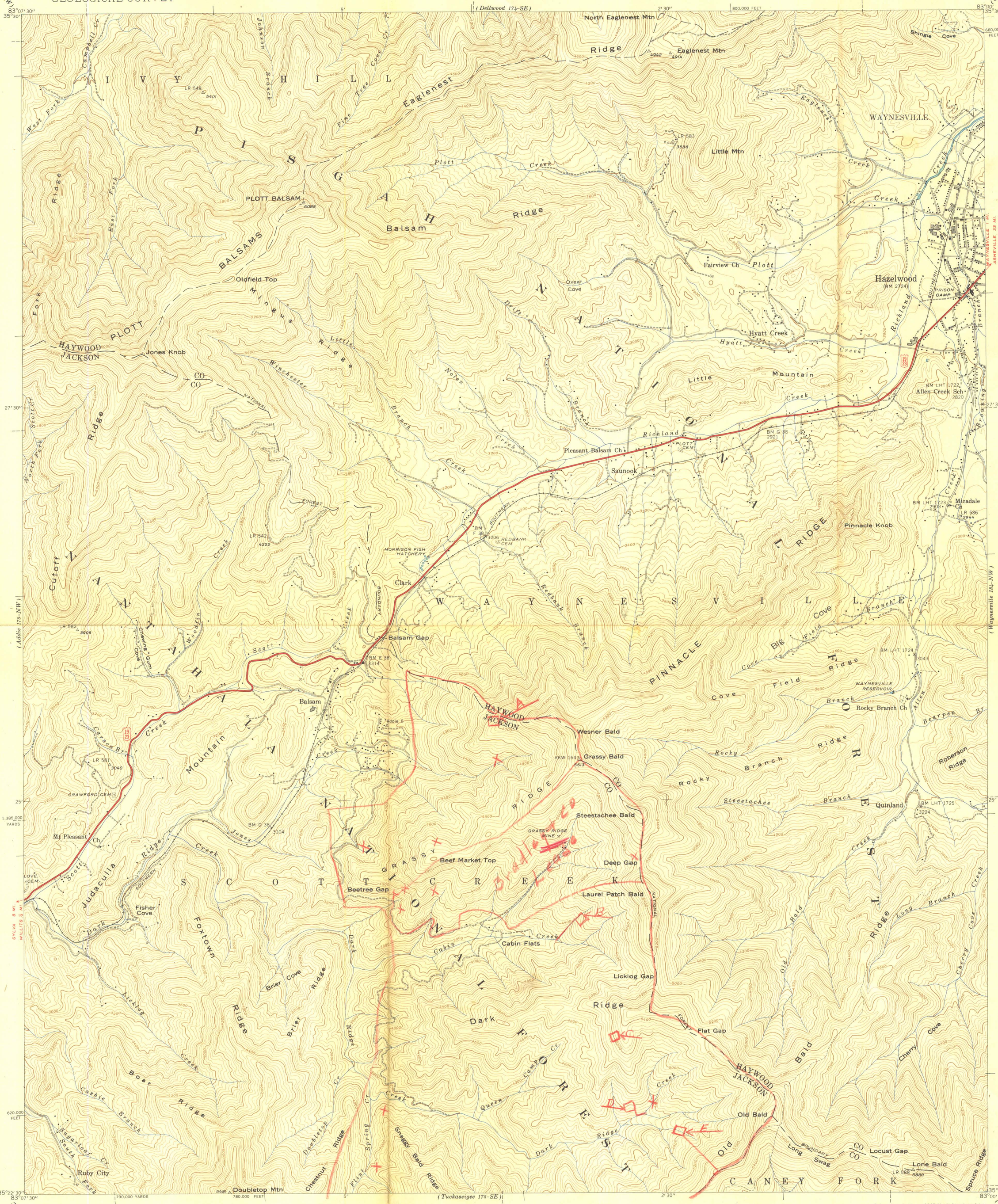
175-NE



Control by USC&GS, USGS, and TVA
Topography by Geological Survey from aerial photographs by stereophotogrammetric methods
Field examination by Tennessee Valley Authority, 1941

Maps distributed by the Geological Survey

Polyconic projection. 1927 North American datum
10,000 foot grid based on North Carolina rectangular coordinate system
5000 yard grid based on U. S. zone system, B

ROUTES USUALLY TRAVELED
HARD IMPERVIOUS SURFACES
OTHER SURFACE IMPROVEMENTS
19 US ROUTE
63 STATE ROUTE

Solid Red line = W.T. Lee Heirs 6000 ~~Acre~~ tract
Lettered Boxes = Proposed Exploration Projects
Other outcroppings of mica = "X"
(approximate location)

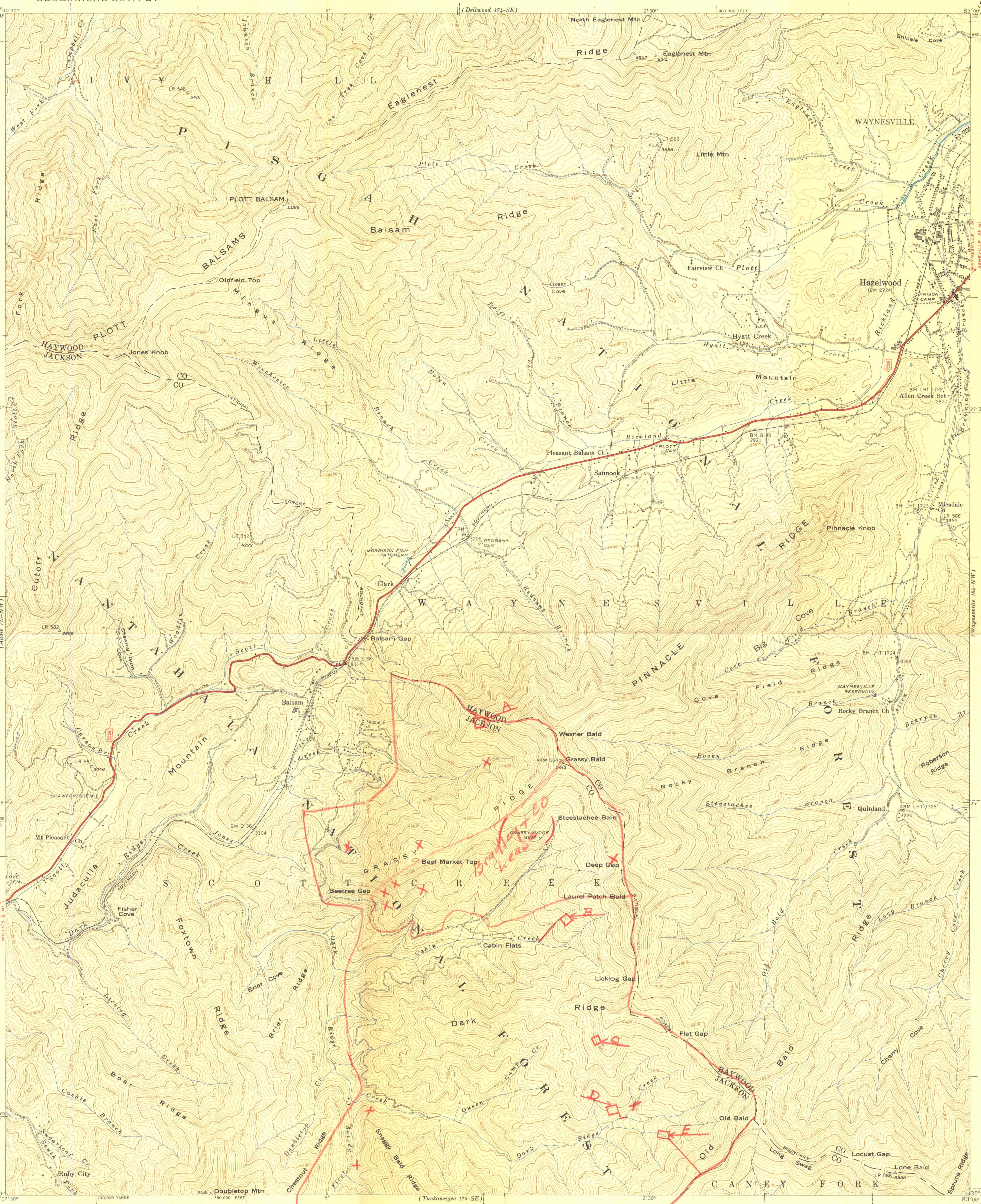
HAZELWOOD, N.C.
175-NE
Edition of 1942
N3522.5-W8300/7.5

ENGRAVED AND PRINTED BY WILLIAMS & HEINTZ CO., WASH. D.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
TENNESSEE VALLEY AUTHORITY
MAPS AND SURVEYS DIVISION

NORTH CAROLINA
HAZELWOOD QUADRANGLE
175-NE



Control by USC&GS, USGS, and TVA
Topography by Geological Survey from aerial photographs by stereophotogrammetric methods
Field examination by Tennessee Valley Authority, 1941

Maps distributed by the Geological Survey

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1941

Scale $\frac{1}{24000}$

1 ½ 0 1 2 Miles
5000 0 5000 10000 Feet
1 ½ 0 1 2 Kilometers

Contour interval 40 feet
Datum is mean sea level

Polyconic projection. 1927 North American datum
10,000 foot grid based on North Carolina rectangular coordinate system
5000 yard grid based on U. S. zone system, B

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