DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2599

DO NOT DETACH THIS SLIP

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This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip
Copies to USBM, USGS, and Region VII.

To:	Code 600, Rm. 4637	Date	7-1-52
To:	Hearn	Date	7/7/52
To:	Op Com	Date	7-21-52
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CONTROLLED DOCUMENT

October 10, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2599 - Mica
Celo-Autrey Miners
Autrey Mine
Yancey County, North Carolina

July 1, 1952 Received application dated April 30, 1952 covering $6,317 for de-watering (300 ft. down a 45° incline), rehabilitation, inclined raise on supposed upper pegmatite, and driving drift about fifty feet in each direction from the top of the raise when and if the ore justifies it.
July 2, 1952 U.S.G.S. recommends denial.
July 17, 1952 U.S.B.M. recommends field examination.
July 22, 1952 Referred to field.
Sept. 18, 1952 Field Team Report quotes Corb Robinson, who conducted previous work, as saying that there is a possibility that mica may be found in the upper pegmatite. The mine was under water at the time of the field investigation and could not be examined.
Sept. 30, 1952 U.S.G.S. recommends denial.
In the U.S.G.S. memorandum of July 2, 1952, a quotation from an unpublished report made in 1944 by J. R. Wolfe, U.S.G.S. states "The Colonial Mica Corporation drilled two test holes in the west wall of the incline at a point about 200 feet from the portal, and discovered a parallel pegmatite to one side. A crosscut was driven through three feet of gneiss to this pegmatite, but it proved to be only ten inches thick and hence too thin to mine profitably."

Since the supposed upper pegmatite cannot be examined without dewatering and the available evidence is unpromising, the application should be denied.
Oct. 8, 1952 U.S.B.M. recommends denial.

Laurance F. Hearne

LFHearne:gad

Laurance F. Hearne

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

600

OCT 13 1952

Mr. John Phillips, Manager
Celo-Autrey Mines
The Texas Company
Spruce Pine, North Carolina

Subject: Docket No. DMEA-2599 - Mica
Autrey Mine
Yancey County, North Carolina

Dear Mr. Phillips:

Your application for aid for an exploration project at the Autrey Mine in Yancey County, North Carolina, has been reviewed by this office.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding mica of strategic quality in significant quantities to be of importance in the National Defense Program. A review of available information fails to show the probability of making a significant discovery on your property, and hence Government participation in the proposed project is not justified.

The Defense Minerals Exploration Administration wishes to thank you for making this application, and regrets that we cannot approve the expenditure of United States Government funds for exploration of your property.

Sincerely yours,

G. O. Mittendorf

Administrator

LFHearne:gad 10/10/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Morton, G-232 GSA Bldg.
Mr. Houk

IN REPLY REFER TO:

G-MD-CNM

Van Alstine

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

September 30, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 30 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2599 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: Celo-Autrey Miners, The Texas Company, Spruce Pine, North Carolina.
Name of property: Autrey mine.
Location of property: Spruce Pine district, Yancey County, North Carolina.
Date of field team report: September 18, 1952.
Authorship of field team report: K. H. Teague and A. L. Peyton.
Field team's recommendation: Discuss a possible exploration plan but do not recommend it as "there is no assurance that any mica will result from this work."
"Future production from this deposit is doubtful."
Comments: In view of exhaustion of the main pipe-like pegmatite here and doubtful occurrence of a second pegmatite, the chances of finding a deposit of strategic mica here seem poor.
ACTION SUGGESTED: Follow field team's recommendation and deny application.

R. E. Van Alstine

Van Alstine:jeh
G-9/30/52
cc: Director's reading file 4212 GSA Bldg.
Branch " " " " "
DMEA
Van Alstine G-230 " "
Norton files G-228 " "

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

Room 13, Post Office Building
Knoxville 2, Tennessee

September 18, 1952

Memorandum

To: Field Team, DMEA - Region VII

From: K. H. Teague, U. S. Geological Survey and A. L. Peyton, U. S. Bureau of Mines

Subject: Docket No. DMEA-2599 (mica). Autrey Mine. Celo-Autrey Mineral, Yancey County, North Carolina

The subject application has been reviewed in the office and in the field.

General consensus of the writers , Applicants, and Corb Robinson is that the pipe-like pegmatite mined during the 1930's has been exhausted and that further efforts on this pegmatite will be unprofitable.

The second pegmatite which is discussed in the application is of questionable occurrence. As the Field Team understand the so-called second higher level pegmatite(hanging wall ?), it is that portion of the pipe like body shown in Section C-C1 on the Autrey map. This is not a different pegmatite, but an up-dip extension of the main Autrey pegmatite. The section does not indicate that the up-dip pegmatite contains mica. However, Section D-D1 indicates that two pegmatite zones do occur about 20 feet down the incline from the position of Section C-C1. This may be the beginning of the condition discussed in Bull. 43, Part 1, p.65 by J. C. Olsen: "there it thickened, the proportion of feldspar increased, that of mica decreased, and the mine was abandoned."

The question of reopening the Autrey Mine was discussed with Corb Robinson, who conducted the extensive mining at this place during the 1930's and who is familiar with the problems involved. Mr. Robinson is now one of the buyers at the Spruce Pine Mica Depot for U. S. A. He is of the opinion that no mica can be obtained economically from the known Autrey pegmatite, but that there may be a possibility of finding other mica-bearing pegmatite in the roof of the incline. He states that work conducted in the roof of the incline in the general vicinity of the loft of muck shown on the longitudinal section gave indications of mica-bearing pegmatite. The program for exploration he

Reviewed by
DMEA OPERATING COMMITTEE
9/26/52
(date)

suggested is to drive a drift horizontally from the roof at a point approximately 300 feet down the incline along the pegmatite trend for 30 to 40 feet and probe with extension steel or crosscut and drifts for mica-bearing pegmatite.

To execute the above program would require the de-watering of the incline which is flooded to the collar, installing equipment, and driving from 60 to 80 feet of drifts, crosscuts, or raises at a probable cost of approximately $5000. There is no assurance that any mica will result from this work.

The writers feel that future production from this deposit is doubtful. We have no first hand observation to add to that already made.

K. H. Teague, USGS

A. L. Peyton, USBM

Sept. 17, 1952.

MM.

Mr. John Phillips, Manager
Gale-Cutney Mines
The Texas Company
Spruce Pine, North Carolina

Subject: Docket No. [illegible]-2599 - Mica
Attney Mine
Yancey County, North Carolina

Dear Mr. Phillips:

Your application is being referred to Mr. Robert A. Lawrence, Executive Officer, AMSA, Field Team, Region VII, Room 19, Post Office Building, Knoxville 01, Tennessee, for further information.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

[illegible]:mm 7/18/52
Cc: Docket File
Adm. Reading File
Field Team, Region VII
Operating Committee
Mr. [illegible]rich, 3526
Mr. Norton, [illegible]-27[illegible], GSA Bldg.
Mr. Hook

Mr. Robert A. Lawrence
Executive Officer, OMSA
Field Room, Region VII
Room 1D, Post Office Building
Knoxville 01, Tennessee

Subject: Docket No. [illegible]-2999 - Mica
Colo-Autrey Mines
Autrey Mine
Yancey County, North Carolina

Dear Mr. Lawrence:

Denial of the above captioned application is being considered.

It appears that Colonial Mica Corporation has already crosscut to the upper pegmatite 100 feet up the dip, above where the applicant proposes to start a raise, and that it proved to be only ten inches thick at this depth.

It is requested that you review the application and advise of any pertinent facts you may have relating thereto.

Memoranda from the U. S. Bureau of Mines and U. S. Geological Survey are enclosed.

Sincerely yours,

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Approved:

LFHearne:mp 7/18/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Novak

Member, Bureau of Mines

Member, Geological Survey

Enclosures - 2

Mr. John Phillips, Manager
Cain-Autrey Mineral
The Texas Company
Spruce Pine, North Carolina

Subject: Docket No. DMEA-2999 - Mica
Autrey Mine
Yancey County, North Carolina

Dear Mr. Phillips:

Your application is being referred to Mr. Robert A. Laurence, Executive Officer, DMEA, Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee, for further information.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Administrator
Defense Minerals Exploration
Administration

LFHearne:mp 7/18/52
cc: Docket File
Adm. Reading File
Field Team, Region VII
Operating Committee
Mr. Dietrich , 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

Subject: Docket No. DMEA-2399 - Mica
Cole-Autrey Miners
Autrey Mine
Yancey County, North Carolina

Dear Mr. Laurence:

Denial of the above captioned application is being considered.

It appears that Colonial Mica Corporation has already crosscut to the upper pegmatite 100 feet up the dip, above where the applicant proposes to start a raise, and that it proved to be only ten inches thick at this depth.

It is requested that you review the application and advise of any pertinent facts you may have relating thereto.

Memoranda from the U. S. Bureau of Mines and U. S. Geological Survey are enclosed.

Sincerely yours,

George C. Selfridge

ACTING Chairman, Operating Committee
Defense Minerals Exploration
Administration

Approved:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

Enclosures - 2

LFHearne:mp 7/18/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Dietrich, 3526
Mr. Nonton, G-232, GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

Hearne
Hull
Rodgers
Bratton
Fitzhugh

OCT 13 1952

Mr. John Phillips, Manager
Gulo-Autrey Mines
The Texas Company
Spruce Pine, North Carolina

Subject: Docket No. DMEA-2599 - Mica
Autrey Mine
Yancey County, North Carolina

Dear Mr. Phillips:

Your application for aid for an exploration project at the Autrey Mine in Yancey County, North Carolina, has been reviewed by this office.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding mica of strategic quality in significant quantities to be of importance in the National Defense Program. A review of available information fails to show the probability of making a significant discovery on your property, and hence Government participation in the proposed project is not justified.

The Defense Minerals Exploration Administration wishes to thank you for making this application, and regrets that we cannot approve the expenditure of United States Government funds for exploration of your property.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

LFHearne:gad 10/10/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

F.H.
10-13-52

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

October 10, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2599 - Mica
Celo-Autrey Miners
Autrey Mine
Yancey County, North Carolina

July 1, 1952 Received application dated April 30, 1952 covering $6,317 for de-watering (300 ft. down a 45° incline), rehabilitation, inclined raise on supposed upper pegmatite, and driving drift about fifty feet in each direction from the top of the raise when and if the ore justifies it.
July 2, 1952 U.S.G.S. recommends denial.
July 17, 1952 U.S.B.M. recommends field examination.
July 22, 1952 Referred to field.
Sept. 18, 1952 Field Team Report quotes Corb Robinson, who conducted previous work, as saying that there is a possibility that mica may be found in the upper pegmatite. The mine was under water at the time of the field investigation and could not be examined.
Sept. 30, 1952 U.S.G.S. recommends denial.
In the U.S.G.S. memorandum of July 2, 1952, a quotation from an unpublished report made in 1944 by J. R. Wolfe, U.S.G.S. states "The Colonial Mica Corporation drilled two test holes in the west wall of the incline at a point about 200 feet from the portal, and discovered a parallel pegmatite to one side. A crosscut was driven through three feet of gneiss to this pegmatite, but it proved to be only ten inches thick and hence too thin to mine profitably."

Since the supposed upper pegmatite cannot be examined without dewatering and the available evidence is unpromising, the application should be denied.
Oct. 8, 1952 U.S.B.M. recommends denial.

Laurance F. Hearne
Laurance F. Hearne

FILE COPY
SURNAME:

Hearne
Houk

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

October 10, 1952

Memorandum

To: Administrator

From: Nonmetallic Mineral[illegible]ivision

Subject: Docket No. DMEA-2599 - Mica
Celo-Autrey Miners
Autrey Mine
Yancey County, North Carolina

July 1, 1952 Received application dated April 30, 1952 covering $6,317 for de-watering (300 ft. down a 45° incline), rehabilitation, inclined raise on supposed upper pegmatite, and driving drift about fifty feet in each direction from the top of the raise when and if the ore justifies it.
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Since the supposed upper pegmatite cannot be examined without dewatering and the available evidence is unpromising, the application should be denied.
Oct. 8, 1952 U.S.B.M. recommends denial.

Laurance F. Hearne

LFHearne:gad

Laurance F. Hearne

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

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

Mr Hearne

October 8, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2599, Mica, Autrey Mine, Yancey County, North Carolina

I concur in the field team's recommendation for denial of subject application on the basis that strategic mica is unlikely to be found in this mine.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
OCT 8 1952

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

October 8, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2599, Mica, Autrey Mine, Yancey County, North Carolina

I concur in the field team's recommendation for denial of subject application on the basis that strategic mica is unlikely to be found in this mine.

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

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

Mr Kearns

September 30, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 30 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2599 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: Celo-Autrey Miners, The Texas Company, Spruce Pine, North Carolina.
Name of property: Autrey mine.
Location of property: Spruce Pine district, Yancey County, North Carolina.
Date of field team report: September 18, 1952.
Authorship of field team report: K. H. Teague and A. L. Peyton.
Field team's recommendation: Discuss a possible exploration plan but do not recommend it as "there is no assurance that any mica will result from this work."
"Future production from this deposit is doubtful."
Comments: In view of exhaustion of the main pipe-like pegmatite here and doubtful occurrence of a second pegmatite, the chances of finding a deposit of strategic mica here seem poor.
ACTION SUGGESTED: Follow field team's recommendation and deny application.

R. E. Van Alstine

R. E. Van Alstine

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

Room 13, Post Office Building
Knoxville, Tennessee

mr. Dearmed

September 18, 1952

Memorandum

To: Operating Committee, DMEA-Washington

From: Field Team DMEA-Region 7

Subject: DMEA-2599, Celo-Autrey Miners (mica)

Transmitted herewith are 4 copies of a memorandum providing the additional information concerning the subject application.

Robert A. Laurence

Robert A. Laurence
Executive Officer, DMEA
Region 7

W A Beck

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

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

Mr Heame

Room 13, Post Office Building
Knoxville 2, Tennessee

September 18, 1952

Memorandum

To: Field Team, DMEA - Region VII

From: K. H. Teague, U. S. Geological Survey and A. L. Peyton, U. S. Bureau of Mines

Subject: Docket No. DMEA-2599 (mica). Autrey Mine. Celo-Autrey Miners, Yancey County, North Carolina

The subject application has been reviewed in the office and in the field.

General consensus of the writers , Applicants, and Corb Robinson is that the pipe-like pegmatite mined during the 1930's has been exhausted and that further efforts on this pegmatite will be unprofitable.

The second pegmatite which is discussed in the application is of questionable occurrence. As the Field Team understand the so-called second higher level pegmatite(hanging wall ?), it is that portion of the pipe like body shown in Section C-C1 on the Autrey map. This is not a different pegmatite, but an up-dip extension of the main Autrey pegmatite. The section does not indicate that the up-dip pegmatite contains mica. However, Section D-D1 indicates that two pegmatite zones do occur about 20 feet down the incline from the position of Section C-C1. This may be the beginning of the condition discussed in Bull. 43, Part 1, p.65 by J. C. Olson: "there it thickened, the proportion of feldspar increased, that of mica decreased, and the mine was abandoned."

The question of reopening the Autrey Mine was discussed with Corb Robinson, who conducted the extensive mining at this place during the 1930's and who is familiar with the problems involved. Mr. Robinson is now one of the buyers at the Spruce Pine Mica Depot for G. S. A. He is of the opinion that no mica can be obtained economically from the known Autrey pegmatite, but that there may be a possibility of finding other mica-bearing pegmatite in the roof of the incline. He states that work conducted in the roof of the incline in the general vicinity of the loft of muck shown on the longitudinal section gave indications of mica-bearing pegmatite. The program for exploration he

suggested is to drive a drift horizontally from the roof at a point approximately 300 feet down the incline along the pegmatite trend for 30 to 40 feet and probe with extension steel or crosscut and drifts for mica-bearing pegmatite.

To execute the above program would require the de-watering of the incline which is flooded to the collar, installing equipment, and driving from 60 to 80 feet of drifts, crosscuts, or raises at a probable cost of approximately $5000. There is no assurance that any mica will result from this work.

The writers feel that future production from this deposit is doubtful. We have no first hand observation to add to that already made.

K. H. Teague
K. H. Teague, USGS
A. L. Peyton
A. L. Peyton, USBM

Sept. 17, 1952.

SD

FILE COPY
SURNAME:

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

Hearne
Hedges
Selfridge
Johnson

JUL 22 1952

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

Subject: Docket No. DMEA-2999 - Mica
Calo-Autrey Minerals
Autrey Mine
Yancey County, North Carolina

Dear Mr. Laurence:

Denial of the above captioned application is being considered.

It appears that Colonial Mica Corporation has already crosscut to the upper pegmatite 100 feet up the dip, above where the applicant proposes to start a raise, and that it proved to be only ten inches thick at this depth.

It is requested that you review the application and advise of any pertinent facts you may have relating thereto.

Memoranda from the U. S. Bureau of Mines and U. S. Geological Survey are enclosed.

Sincerely yours,

7/22

George C. Selfridge

ACTING Chairman, Operating Committee
Defense Minerals Exploration
Administration

Approved:

J. H. Hedges (2/52)

Member, Bureau of Mines

T. P. Thayer (JHB)

Member, Geological Survey

LFHearne:mp 7/18/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Dietrich, 3526
Mr. Nonton, G-232, GSA Bldg.
Mr. Houk

Enclosures - 2

FILE COPY
SURNAME:

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

Hearne
Houk
Hayes
Hodges
Selfridge

JUL 22 1952

Mr. John Phillips, Manager
Cole-Autrey Miners
The Texas Company
Sprucs Pine, North Carolina

Subject: Docket No. DMEA-2599 - Mica
Autrey Mine
Yancey County, North Carolina

Dear Mr. Phillips:

Your application is being referred to Mr. Robert A. Laurence, Executive Officer, DMEA, Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee, for further information.

Sincerely yours,

7/22

(signed) FRANK E. JOHNSON

(HB)

Acting Administrator
Defense Minerals Exploration
Administration

LFHearne:mp 7/18/52
cc: Docket File
Adm. Reading File
Field Team, Region VII
Operating Committee
Mr. Dietrich , 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

EXPLORATION

Subject: DMEA-2599
Re: Exploration Loan
July 1, 1952

Mr. John Phillips
Celo-Autrey Miners
Texas Company
Spruce Pine, North Carolina

My dear Mr. Phillips:

This will acknowledge receipt of your application dated April 30, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2599 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-2599 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2599
Metal or Mineral
Date Received 7-1-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 1952

Name and address of applicant

Celo-Autrey Miners
c/o John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

Date

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

DMA Docket Number (if available)

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

Celo-Autrey Miners (a general partnership) By John Phillips
(Name of company) (Signature of authorized official)

April 30, 1952 Manager (a general partner)
(Date) (Title)

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

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

MF 103 Defense Minerals Exploration Administration

Celo-Autrey Miners
c/o John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

1. (a) Legal description is set forth in lease attached as Exhibit A.
   (b) See Exhibit A.
   (c) All of the area leased is included in this project.

   NOTE: Six copies of "Owners Consent to Lien" are attached to the original copy of this application at Exhibit A.

2. (a) Strategic grade ruby sheet mica. The past history, prior to World War II, of this mine is good. It is well known for the large blocks of ruby mica it produced. The Carpenter & Phillips Mica Company, Spruce Pine, and the U. S. Government have on record that one block of mica from this mine produced - ½ lb. 3x3, ½ lb 3x4, 5 lb. 3x5, 50 lb. 4x6, 10½ lb. 6x8, 0 lb. waste. This block came from the pegmatite at the higher level.

   This mine was the subject of Government assistance during World War II, when Carroll Roger, son of the major stockholder of the owner, explored the lower workings. He reports that this assistance given him was not sufficient and that, at that time, the Colonial Mica Company was not well organized, and as a consequence, this mine was not given the consideration to which it was entitled, and that it is his opinion that the upper level should now be explored.

   (b) The salient geological feature of this mine is that there are two known pegmatites. The one at the lower level was the one that outcroped and was the first worked. It is believed by the applicant that this pegmatite is completely worked out.

   The second pegmatite is at a higher level than the first and does not outcrop. This higher ore body was discovered when the hanging wall was penetrated by [redacted] Buchanan after the close of Colonial Mica Corporation after World War II. Carroll Rogers with Colonial Mica Corporation assistance followed the first ore lower pegmatite until it pinched out. Knowing this, [redacted] Buchanan explored the hanging wall area. He contacted some mica in the higher pegmatites foot wall. In fact, it was from this second dike that the book of mica was removed that is mentioned in 2(a) above.

   The strike, dip, and pitch of the second, or higher, pegmatite has never been determined. Mr. Buchanan conducted his exploration on a very conservative basis, and since the market price of mica at that time was extremely low, there was no incentive for him to pursue the exploration further.

   Bulletin 43 at Figure 5 gives the geological structure of the mine area, and contains a map of the old workings.

   The applicant has made a sketch of the underground workings of Carroll Rogers and [redacted] Buchanan. It is attached as Exhibit B.

Celo-Autrey Miners
c/o John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

3. (a) It is proposed to commence by dewatering the abandoned underground workings, and to remove the underground muck and waste which was left when the upper level was last worked.

When that has been done an inspection will be made of the sill or loft existing between the upper and lower levels to determine what repairs are necessary to place it in safe working condition. These repairs or replacements will be made, and the old muck now resting on this sill will be removed before exploration is commenced in the upper pegmatite.

The upper dike was last worked by Mr. Buchanan during 1932 - 34, and it is anticipated that the loft or sill will need extensive repairs. After these repairs have been made and the muck removed, it is proposed to penetrate the pegmatite by undercutting a verticle shaft through it to determine its mineralization and the quality of the mica, if contacted.

If a mica vein is contacted by this verticle shaft, it will be marked and noted.

After the verticle shaft has been undercut, it is then proposed to commence at the abandoned stope and to drift up the pegmatite 50 feet, and then drive a drift down the pegmatite for a distance of 50 feet.

The verticle shaft and the exploratory drifting, when analyzed, should disclose whether or not the mine should be placed in commercial production. If commercial production appears feasible, as a result of this exploration, the applicant will put the mine on a commercial mining basis immediately after the exploration project has been completed.

(b) It is anticipated that the project will be completed in three months from the date of commencement. The project will be commenced just as soon as the exploration contract is approved.

An itemization of the cost of the project is set forth below.

	per wk.	12 wk. period
LABOR		
1 hoist operator	50	600
1 Drill man	65	780
2 Muckers	50	1200
		2580
SUPERVISION		
1 ½-time supervisor	50	600
EQUIPMENT		
Rented		
1 7½ hp gasoline water pump		300
1 105 cu. ft. air compressor		450
1 jackhamer		100
		850

Celo-Autrey Miners
c/o John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

3. (b)(Cont.)

EQUIPMENT	per wk.	12 wk. period
Purchased		
600 ft. railing		360
Muck Truck (used)		250
350 2' pipe at 60¢ ft.		210
350 1' pipe at 32¢ ft.		112
		932
SUPPLIES		
Dynamite	30	360
Gasoline & oil	20	240
Safety equipment (helmets & boots)		75
Air hose		30
Water hose		30
Drill steel & bits		300
Timbering 5 M at $80		400
Cross ties & spikes		120
		1,355

TOTAL COST OF PROJECT.....$6,317

4. See Exhibit B.

5. See 3(b) (none)

6. None

7. See 3(b)

8. See 3(b)

9. See 3(b)

10. (a) 10%
(b) Yes

11. See exhibit "c" for map showing location of mine.

MINING LEASE

State of North Carolina Yancey County:

This indenture made this 24th day of April, 1952

between Feldspar Milling Co

of Yancey County and State of North Carolina, as party of the first part, and known as lessor___, and John Phillips & S.L. Phillips

of Mitchell County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the party of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor, and in consideration of the agreements hereinafter contained, on the part of the party of the second part to be performed, hereby bargains, leases and grants to the party of the second part, and his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written, to wit:

The Autrey mine on Mt. Celo Last worked by Young & Anglin, starting with the mouth of said mine a circle of 500 Ft. radius, it being understood that the vein of the Autrey mine is to be included together with sufficient dumping room, to effeciently operate said mine.

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the conditions of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, and particularly mica, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operations during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by the party of the second part that no unnecessary damage is to be done to the lands herein leased during the period of this lease and the continuance of said lease, but the said party of the second part shall have right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said party of the first part, or his or their heirs or assigns, a rental royalty of 12½ % of the gross selling Price of all mica, at the mine

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the party of the first part or by the continuation of any mining operations then being conducted. The lessor reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease. And it is further agreed that the parties of the second part shall hold the party of the first part blameless for all torts and liability connected with the operation of said mine and will protect the party of the first part from all liability.

~~AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real eastate described and set forth in this lease for a total purchase price of $_____, said purchase price to be paid in full within three years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.~~

BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of two years from the date of this instrument, the lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor. The lessee agrees that during the period of this lease or the continuance of this lease that work in said mines or exploration for new mines within the area leased shall not cease longer than ninety days at any one time, unavoidable accidents excepted.

WITNESS our hands and seals the day and year first above written.

Witness:

Eunea H. Fiseman

Feldspar Milling Co

by: C. Rogers President (Seal)

_____ (Seal)

_____ (Seal)

NORTH CAROLINA, Mitchell COUNTY:

The execution of the foregoing instrument was this day acknowledged before me by C. P. Rogers, Pres. Feldspar Milling Co the grantor___ for the purposes therein expressed. Let the same, with this certificate, be registered. This 24th day of April, 1952

Glenn N. Glenn

My Commission Expires November 1, 1952

******

NORTH CAROLINA, _____ COUNTY:

I, _____, do certify that _____ and _____, his wife personally appeared before me this day, and acknowledged the execution of the annexed mining lease and the said _____ being by me privately examined separate and apart from her said husband, touching her voluntary execution of the same; doth state that she signed the same free and voluntarily, without fear or compulsion of her said husband, or of any other person, and that she doth still voluntarily assent thereto. This _____ day of _____, 1951.

_____

_____

******

NORTH CAROLINA, _____ COUNTY:

The foregoing certificate of _____ of _____ County is adjudged to be correct and sufficient. Let the instrument, with the certificate be registered.

Witness my hand and official seal, this _____ day of _____, 1951.

_____

Clerk Superior Court

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Yancey, which is the subject of a proposed Exploration Project Contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government", and 1/ John Phillips + S. L. Phillips

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom in the amount of the Government's contribution, not in excess of 2/ $ 7400.00 (Seventy Four Hundred) all upon the terms and conditions set forth in said Contract.

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

Dated this _____ day of _____, 195_.

Subscribed & sworn before me this 24th day of April, 1952.
Eleanor N. Blevins
Notary Public
My Commission Expires November 1, 1952

Feldspar Milling Co
by: C. P. Rogers, President

1/ Insert the name of the Operator as it will appear in the Exploration Project Contract.

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

RELEVANT CONTRACT PROVISIONS

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.

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 ($1\frac{1}{2}$) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent, plus one-half ($\frac{1}{2}$) 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 obligations on the Operator or his successor in interest to produce ore from any such discovery or development.

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

July 17, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2599, Celo-Autrey Miners, The Texas Co., Spruce Pine, North Carolina

In Geological Survey Bulletin 936-A, table 11 and page 23, mica from the Autrey mine was classified as ruby with a power factor of .05% i.e., a Q value of 2000, in the high range of E-2 capacitor quality. Production between 1935-1939 for clear sheet mica totaled 41,522 pounds. The Geological Survey (Professional Paper 225, p. 49) tested the mica from this mine to be 100 percent of E-1 capacitor quality and color was classed as cinnamon brown which is acceptable as ruby. On the basis of these facts and the applicant's description of present exposures, a field team investigation is recommended.

W. F. Dietrich (RK)

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals
JUL 22 1952

IN REPLY REFER TO:

G-MD-PLW

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

July 2, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2599 (mica)

To: L. G. Houk, Non-Metallic Minerals Division, DMEA
From: P. L. Weis, U. S. Geological Survey
Applicant: Celo-Autrey Miners.
Name of property: Autrey Mine.
Location of property: Yancey County, North Carolina.
Estimated cost of project: $6,317.
Summary of applicant's proposal:

1) Dewater abandoned workings and clean them out.
2) Drive a vertical shaft (unknown length) and extend 100 feet of drifts from it.

Sources of information on applicant's property:

1) Olson, J. C., U. S. Geological Survey unpublished report, 1940.
2) Wolfe, J. R., U. S. Geological Survey unpublished report, 1944.

Comments:

1) Applicant apparently wishes to prospect one of two pegmatites on the property. Wolfe, Olson, and the applicant all agree that one of the pegmatites is mined out. Concerning the other pegmatite, Wolfe states:

> "The Colonial Mica Corporation drilled two test holes in the west wall of the incline at a point about 200 feet from the portal, and discovered a parallel pegmatite to one side. A crosscut was driven through three feet of gneiss to this pegmatite, but it proved to be only ten inches thick and hence too thin to mine profitably."
>
> "In view of . . . unfavorable conditions, together with the difficulty of access to the mine, further work would involve great financial risk with little prospect of profit."

2) In view of the detailed information already available, no field examination of the property appears necessary.

RECOMMENDATION: Denial.

Paul L. Weis
Paul L. Weis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 3 1952

M[illegible]0

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7-3-52

REFERRED TO:

1. Code 600
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: .....

Check (X) before the items needing attention.

R. E. ADAMS

Initials of sender.

GPO 16—63815-1

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2599
Metal or Mineral
Date Received 7-1-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 1952

Celo-Autrey Miners
John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

Name and address of applicant

Date

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

DMA Docket Number (if available)

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

Celo-Autrey Miners (a general partnership) By John Phillips
(Name of company) (Signature of authorized official)

April 30, 1952 Manager (a general partner)
(Date) (Title)

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

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

MF 103 Defense Minerals Exploration Administration

Calo-Autrey Miners
c/o John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

1. (a) Legal description is set forth in lease attached as Exhibit A.
   (b) See Exhibit A.
   (c) All of the area leased is included in this project.

   NOTE: Six copies of "Owners Consent to Lien" are attached to the original copy of this application at Exhibit A.

2. (a) Strategic grade ruby sheet mica. The past history, prior to World War II, of this mine is good. It is well known for the large blocks of ruby mica it produced. The Carpenter & Phillips Mica Company, Spruce Pine, and the U. S. Government have on record that one block of mica from this mine produced - ½ lb. 3x3, ½ lb 3x4, 5 lb. 3x5, 50 lb. 4x6, 10½ lb. 6x8, 0 lb. waste. This block came from the pegmatite at the higher level.

   This mine was the subject of Government assistance during World War II, when Carroll Roger, son of the major stockholder of the owner, explored the lower workings. He reports that this assistance given him was not sufficient and that, at that time, the Colonial Mica Company was not well organized, and as a consequence, this mine was not given the consideration to which it was entitled, and that it is his opinion that the upper level should now be explored.

   (b) The salient geological feature of this mine is that there are two known pegmatites. The one at the lower level was the one that outcroped and was the first worked. It is believed by the applicant that this pegmatite is completely worked out.

   The second pegmatite is at a higher level than the first and does not outcrop. This higher ore body was discovered when the hanging wall was penetrated by [redacted] Buchanan after the close of Colonial Mica Corporation after World War II. Carroll Rogers with Colonial Mica Corporation assistance followed the first ore lower pegmatite until it pinched out. Knowing this, [redacted] Buchanan explored the hanging wall area. He contacted some mica in the higher pegmatites foot wall. In fact, it was from this second dike that the book of mica was removed that is mentioned in 2(a) above.

   The strike, dip, and pitch of the second, or higher pegmatite has never been determined. Mr. Buchanan conducted his exploration on a very conservative basis, and since the market price of mica at that time was extremely low, there was no incentive for him to pursue the exploration further.

   Bulletin 43 at Figure 5 gives the geological structure of the mine area, and contains a map of the old workings.

   The applicant has made a sketch of the underground workings of Carroll Rogers and [redacted] Buchanan. It is attached as Exhibit B.

Calo-Aubrey Mines
c/o John Phillips, Manager
The Tenna Company
Spruce Pine, North Carolina

3. (a) It is proposed to commence by dewatering the abandoned underground workings, and to remove the underground muck and waste which was left when the upper level was last worked.

When that has been done an inspection will be made of the sill or left existing between the upper and lower levels to determine what repairs are necessary to place it in safe working condition. These repairs or replacements will be made, and the old muck now resting on this sill will be removed before exploration is commenced in the upper pegmatite.

The upper dike was last worked by Mr. Bushman during 1938 - 39, and it is anticipated that the left or sill will need extensive repairs. After these repairs have been made and the muck removed, it is proposed to penetrate the pegmatite by undercutting a vertical shaft through it to determine its mineralization and the quality of the mica, if contacted.

If a mica vein is contacted by this vertical shaft, it will be marked and noted.

After the vertical shaft has been undercut, it is then proposed to commence at the abandoned stope and to drift up the pegmatite 50 feet, and then drive a drift down the pegmatite for a distance of 50 feet.

The vertical shaft and the exploratory drifting, when analyzed, should disclose whether or not the mine should be placed in commercial production. If commercial production appears feasible, as a result of this exploration, the applicant will put the mine on a commercial mining basis immediately after the exploration project has been completed.

(b) It is anticipated that the project will be completed in three months from the date of commencement. The project will be commenced just as soon as the exploration contract is approved.

An itemization of the cost of the project is set forth below.

	per wk.	12 wk. period
LABOR		
1 hoist operator	50	600
1 Drill man	65	780
2 Muckers	50	1200
		2580
SUPERVISION		
1 ½-time supervisor	50	600
EQUIPMENT		
Rented		
1 7½ hp gasoline water pump		300
1 105 cu. ft. air compressor		450
1 jackhammer		100
		850

MF 103

Defense Minerals Exploration Administration

Celo-Autrey Miners
c/o John Phillips, Manager
The Texas Company
Spruce Pine, North Carolina

3. (b)(Cont.)

EQUIPMENT	per wk.	12 wk. period
Purchased		
600 ft. railing		360
Muck Truck (used)		250
350 2' pipe at 60¢ ft.		210
350 1' pipe at 32¢ ft.		112
		932
SUPPLIES		
Dynamite	30	360
Gasoline & oil	20	240
Safety equipment (helmets & boots)		75
Air hose		30
Water hose		30
Drill steel & bits		300
Timbering 5 M at $80		400
Cross ties & spikes		180
		1,355

TOTAL COST OF PROJECT.....$6,317

4. See Exhibit B.

5. See 3(b) (none)

6. None

7. See 3(b)

8. See 3(b)

9. See 3(b)

10. (a) 10%
(b) Yes

11. See exhibit "c" for map showing location of mine.

MINING LEASE

State of North Carolina Yancey County:

This indenture made this 24th day of April, 1951

between Feldspar Milling Company

of Yancey County and State of North Carolina, as party of the first part, and known as lessor___, and John Phillips & S. L. Phillips

of Mitchell County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the party of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor___, and in consideration of the agreements hereinafter contained, on the part of the party of the second part to be performed, hereby bargains, leases and grants to the party of the second part, and his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written, to wit:

The Autrey Mine on Mt. Celo last worked by Young & Anglin, starting with the mouth of said mine a circle of 500 ft. radius, it being understood that the vein of the Autrey Mine is to be included together with sufficient dumping room to efficiently operate said mine.

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the conditions of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, and particularly mica, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operations during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by the party of the second part that no unnecessary damage is to be done to the lands herein leased during the period of this lease and the continuance of said lease, but the said party of the second part shall have right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said part____ of the first part, or his or their heirs or assigns, a rental royalty of 12½% of the gross selling price of all mica at the mine.

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the part___ of the first part or by the continuation of any mining operations then being conducted. The lessor___ reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease.

And it is further agreed that the parties of the second part shall hold the party of the first part blameless for all torts and liability connected with the operation of said mine and will protect the party of the first part from all liability.

~~AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real estate described and set forth in this lease for a total purchase price of $_____, said purchase price to be paid in _____ years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.~~

BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of two years from the date of this instrument, the lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor___. The lessee agrees that during the period of this lease or the continuance of this lease that work in said mines or exploration for new mines within the area leased shall not cease longer than ninety days at any one time, unavoidable accidents excepted.

WITNESS our hands and seals the day and year first above written.

FELDSPAR MILLING CO.

Witness:

(S) Bunea W. Wiseman

by: (S) C. R. Rogers, Pres (Seal)

_____ (Seal)

_____ (Seal)

NORTH CAROLINA, Mitchell COUNTY:

The execution of the foregoing instrument was this day acknowledged before me by C. P. Rogers, Pres., Feldspar Milling Co. the grantor___ for the purposes therein expressed. Let the same, with this certificate, be registered. This_____day of _____, 1951.

_____

_____

******

NORTH CAROLINA, _____COUNTY:

I, _____, do certify that _____ _____and _____, his wife personally appeared before me this day, and acknowledged the execution of the annexed mining lease and the said_____being by me privately examined separate and apart from her said husband, touching her voluntary execution of the same; doth state that she signed the same free and voluntarily, without fear or compulsion of her said husband, or of any other person, and that she doth still voluntarily assent thereto. This _____day of _____, 1951.

_____

_____

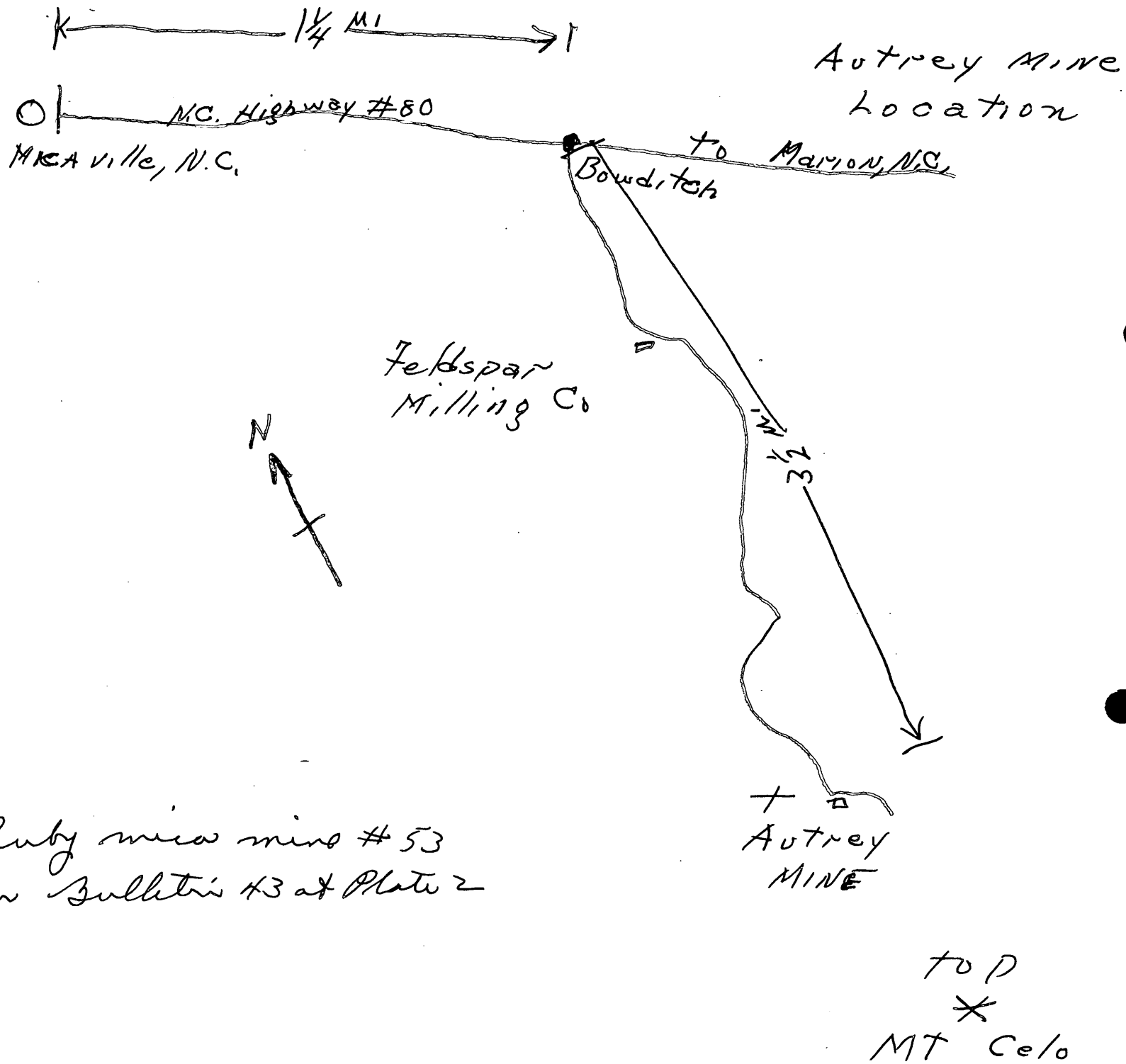
******

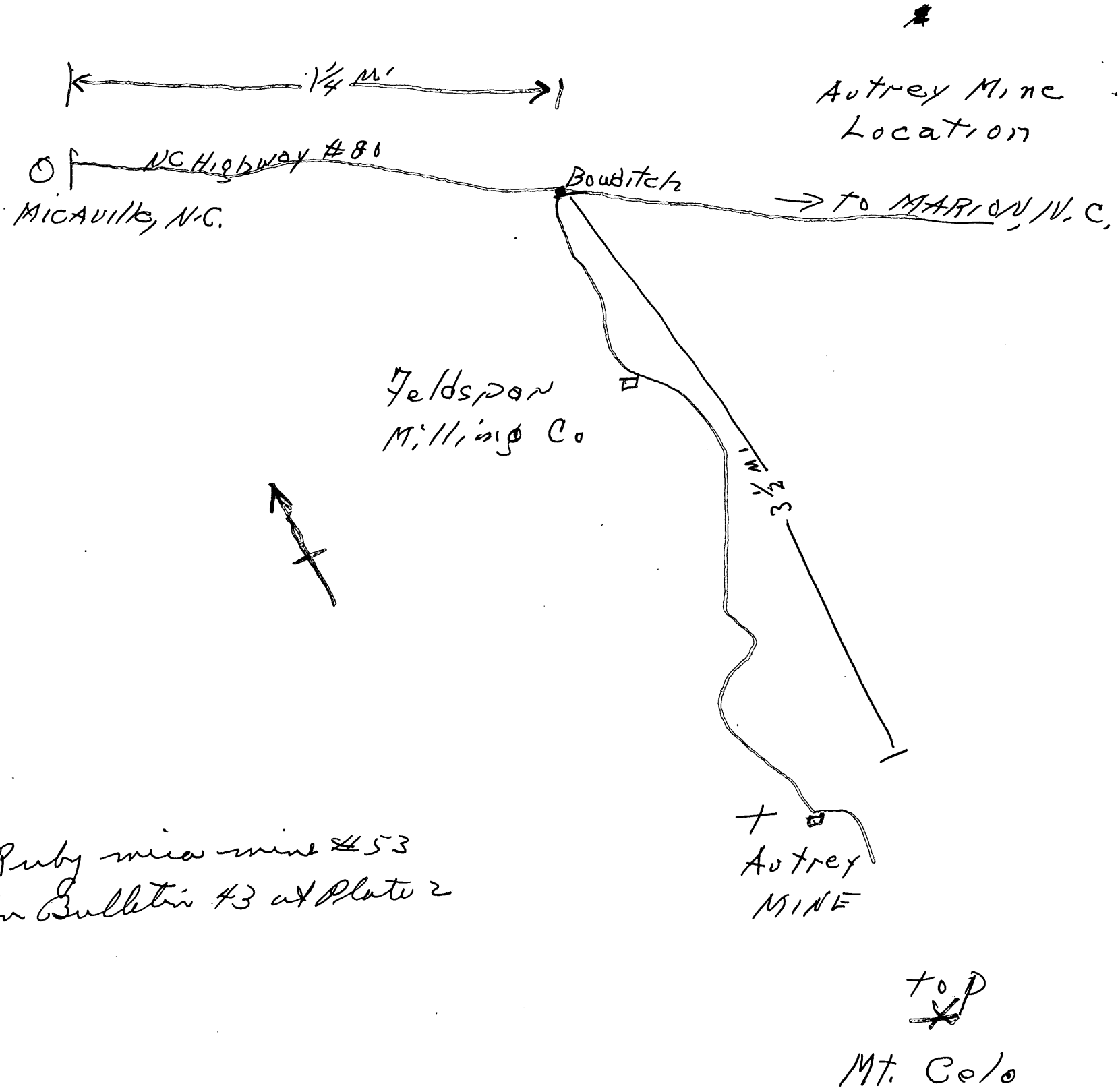
NORTH CAROLINA,_____COUNTY:

The foregoing certificate of _____ of _____County is adjudged to be correct and sufficient. Let the instrument, with the certificate be registered.

Witness my hand and official seal, this _____day of _____, 1951.

_____
Clerk Superior Court


1¼ MI
Autrey Mine Location
N.C. Highway #80
Micaville, N.C.
to Marion, N.C.
Bowditch
Feldspar Milling Co
N
3½ MI
+ Ruby mica mine #53 in Bulletin 43 at Plate 2
Autrey MINE
to P
MT Celo


1¼ Mi
Autrey Mine Location
NC Highway #80
Micaville, N.C.
Bowditch
→ to MARION, N.C.
Feldspar Milling Co
3½ Mi
+ Ruby mica mine #53 in Bulletin 43 at Plate 2
+ Autrey MINE
to Mt. Celo

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
[illegible]

OFFICIAL BUSINESS

2908 Colfax Avenue South
Minneapolis 8, Minnesota

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

MINNEAPOLIS
JUN 27
7 PM
1952
6 MINN.

10 MINNEAPOLIS
JUN 27
7
MINN.

Operating Committee

Defense Minerals Exploration Administration

Interior Building

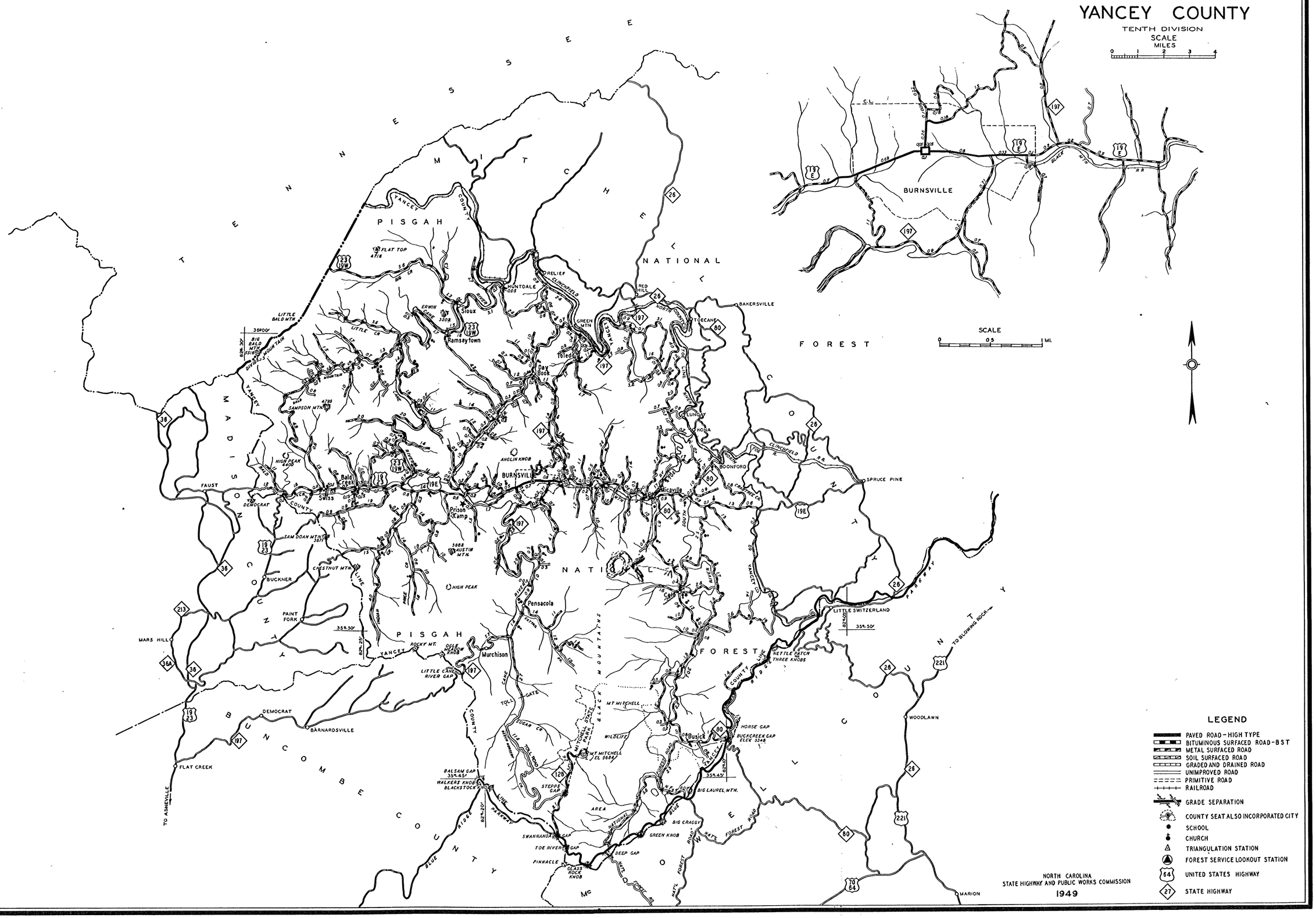
WASHINGTON 25, D. C.

YANCEY COUNTY

TENTH DIVISION

SCALE MILES

0 1 2 3 4



LEGEND

- PAVED ROAD - HIGH TYPE
- BITUMINOUS SURFACED ROAD - BST
- METAL SURFACED ROAD
- SOIL SURFACED ROAD
- GRADED AND DRAINED ROAD
- UNIMPROVED ROAD
- PRIMITIVE ROAD
- RAILROAD
- GRADE SEPARATION
- COUNTY SEAT ALSO INCORPORATED CITY
- SCHOOL
- CHURCH
- TRIANGULATION STATION
- FOREST SERVICE LOOKOUT STATION
- 64 UNITED STATES HIGHWAY
- 27 STATE HIGHWAY

NORTH CAROLINA
STATE HIGHWAY AND PUBLIC WORKS COMMISSION
1949

6 — 30 — 49
6 — 7 — 49
3 — 31 — 49
3 — 30 — 48
7 — 29 — 48
6 — 30 — 48
2 — 26 — 48
7 — 30 — 47
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10 — 24 — 45
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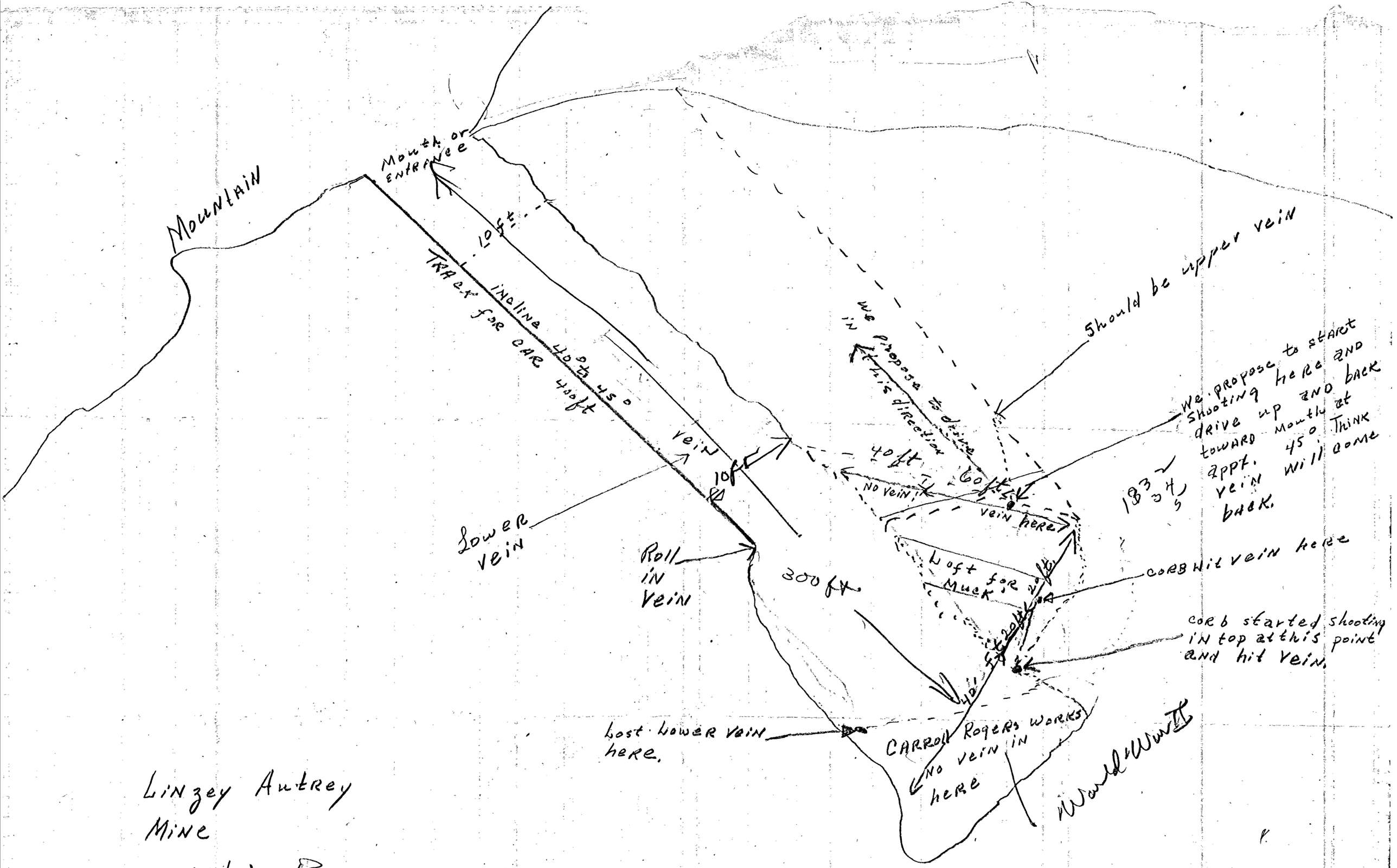
1 — 26 — 45
12 — 1 — 44
REVISED

YANCEY



Linzey Autrey
Mine

Exhibit B