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

600

DOCKET COPY
Surname:
Anderson
Houk
Kiilsgaard
Geehan
Selfridge
Johnson

APR 19 1956

Messrs. Zeb and Edgar Buchanan

Bakersville, North Carolina

Re: Docket No. DMEA-4141-Mica
Zeb and Edgar Buchanan
Dewey McKinney Prospect
Mitchell County, North Carolina

Gentlemen:

Your application for aid for an exploration project and other reports available to us in Washington relating to the subject property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing significant reserves of mica is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

[illegible]

Administrator

WCAnderson:ms 4/13/56
Copy to: Docket
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson
Admr. R. File

R.C.K.

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

April 13, 1956

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Evaluation of Application and Field Examination Report
Docket No. DMEA-4141-Mica
Zeb and Edgar Buchanan
Dewey McKinney Prospect
Mitchell County, North Carolina

Denial of application is recommended

Mica: Only 4 crystals, 4 inches wide were found in an exposed area of 20 feet by 4 feet. Ruby, clear and flat.

Pegmatite:
Lenticular pegmatite exposed for 60 feet, practically barren of mica, conformable in a massive outcrop of migmatitic hornblende gneiss and schist.

Old Workings:
none

Method of Exploring:
Applicant proposed bulldozing to expose pegmatite, sink 70 feet of shaft and drive 80 feet of drifts at a total estimated cost of $6,600.00.

Recommendation:
The Field Team recommends denial of the application, since over an exposed length of 60 feet, the pegmatite is practically barren of mica. The Nonmetallic Minerals Division and the Commodity Members of the Bureau of Mines and the Geological Survey concur.

W. C. Anderson
W. C. Anderson
Nonmetallic Minerals Division

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

RECEIVED
APR 9 - 1956

April 9, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4141 (mica)

Applicant: Z. & E. Buchanan

Name and Location of Property: Dewey McKinney Prospect, Mitchell Co., N. C.

Date of Field Team Report: 2/29/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 4/3/56

Field Team Recommendation: Recommend denial of application.

Comments:

1. The pegmatite contains very little muscovite mica.

2. Reserves of strategic mica are estimated to be negligible.

Recommendation: I concur with the field team's recommendation for denial of this application.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

RECEIVED
APR 3 - 1956

April 2, 1956

Re: DMEA 4141
Zeb and Edgar Buchanan
Dewey McKinney Prospect
Mitchell County, N. C.
Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicants requested assistance in exploring a newly discovered pegmatite. The examiners found only four 4-inch crystals of muscovite in a 4-foot lense of pegmatite exposed by trenching for a length of 60 feet. The 4 crystals were scattered over a 4'x20' zone.

Judging by the small amount of mica showing, the examiners conclude the pegmatite would not sustain a commercial operation and, with the Field Team, recommend denial of the application.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1025 P.O. BLDG.
KNOXVILLE 2, TENN.

RECEIVED
MAR 29 1956

March 27, 1956

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Field Examination Report, DMEA-411 (mica) Zeb and Edgar Buchanan, Bakersville, N. C.
Dewey McKinney Prospect, Mitchell County, N. C.

Enclosed are four copies of the subject report. We agree with the recommendation for denial.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

V. J. Lynch
V. J. Lynch, Member
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
4-2-56
(date)

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT, REGION V

On

DMEA-4141, DEWEY McKINNEY PROSPECT
(mica)
Mitchell County, North Carolina

By

S. C. Bergman and A. R. Taylor, Geologists
Geological Survey

and

A. L. Peyton, Mining Engineer
Bureau of Mines

February 29, 1956

Reviewed by
DMEA OPERATING COMMITTEE
4-2-56
(date)

FIELD EXAMINATION REPORT

On

DMEA-4141 (mica) DEWEY McKINNEY PROSPECT
Mitchell County, North Carolina

Applicants: Zeb and Edgar Buchanan, Bakersville, North Carolina

Summary

A pegmatite lense, practically barren of muscovite, is explosed for 60 feet. Very little (4 crystals, about 4" wide) strategic muscovite was seen in place in a 20' x 4' zone. No exploration is warranted. The field examiners recommend that the application be denied.

Introduction

Location:

It is 1.15 airline miles (6,100 ft) N 38° W of Cane Creek School in Hawk Community, and about 3.41 airline miles N 73° E of Bakersville, N. C. (It is located in the upper 1/3 of the SW 1/9 of TVA Carvers Gap Quadrangle, N. C. -Tenn. 1/24000, on the northwestern slope of Lightwood Mountain at 3000 feet elevation).

Examination:

The field examiners visited the Dewey McKinney Prospect on February 29, 1956 in company with Mr. Dewey McKinney, Mr. Ed Buchanan, and Mr. Paul McMahan. One hour was spent on the examination. Mr. V. J. Lynch, Member, DMEA Field Team accompanied the examiners.

Topography and Accessibility:

The mine is inaccessible except by foot during wet weather. A steep jeep access road exists for about 1 1/2 miles from a paved road to within 1500 feet of the mine. The mine is on a very steep, sometimes sheer, 60° slope on the northwestern side of Lightwood Mountain, and about 60 feet below the ridge crest. No electricity or water is available nearby. The

terrain is very difficult to traverse by foot.

The exposed pegmatite is at the bottom of a vertical, 20 ft high cliff of hornblende gneiss.

Geology

Pegmatite and Country Rock:

A feldspathic, lenticular pegmatite is exposed for 60 feet along the north slope of Lightwood Mountain about 60 feet below the ridgetop. It is conformable in a massive outcrop of hornblende gneiss and schist, with a 1 - 2 feet zone of migmatitic hornblende-biotite gneiss and schist along the contacts. Its strike and dip is N 6° E and 43° SE. It is extremely hard, unweathered, and mica poor.

Mineralogy of the pegmatite includes plagioclase, white microcline, disseminated quartz, biotite, and come muscovite. Some graphic-granite textures exist.

Muscovite:

Muscovite is noticeably absent from the pegmatite lense exposed in a shallow (0-4 ft deep) cut. Four (4), 4-inch wide ruby, clear, and flat muscovite crystals exist in place, but disseminated over a 20' x 4' zone. Biotite crystals are abundant in the center of the lense.

Recommendations and Conclusion

Only four crystals of ruby muscovite exists in an exposure of pegmatite that is 60 ft long and up to 4 ft in thickness. That muscovite is disseminated through a 20' x 4' zone within the lense. Accessibility is very difficult. The field examiners conclude that little or no reserves could be inferred, and that the continuity of the lense into the hillside is dubious.

The small amount of mica showing could not sustain any commercial operation. No exploration is warranted, and the field examiners recommend that the application be denied.

Examined: February 29, 1956.

S. C. Bergman and A. R. Taylor, Geologists
Geological Survey

A. L. Peyton, Mining Engineer
Bureau of Mines

z

DOCKET COPY
Surname:
Anderson
Houk
Selfridge
Johnson

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

FEB - 6 1956

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V
Room 13, Post Office Building
Knoxville, 2, Tennessee

Re: Docket No. DMEA-4141-Mica
Zeb and Edgar Buchanan
Dewey McKinney Prospect
Mitchell County, North Carolina

Dear Mr. Laurence:

Please review the subject application and arrange for a field examination if you deem it necessary.

Copies of memoranda dated January 26 and 31, 1956, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

Enclosures: 4

WCAnderson:ms 2/2/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson

DOCKET COPY
Surname:
Anderson
Houk
Kiilsgaard
Guhon
Selfridge
Hefner

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

FEB - 6 1956

Messrs. Zeb and Edgar Buchanan

Bakersville, North Carolina

Re: Docket No. DMEA-4141-Mica
Zeb and Edgar Buchanan
Dewey McKinney Prospect
Mitchell County, North Carolina

Gentlemen:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region V, Room 13, Post Office Building, Knoxville, 2, Tennessee, for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

G. O. Mittendorf (Leo)

Administrator

WCANDERSON:ms 2/2/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson
Field Team, Region V

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

RECEIVED
FEB - 1 1956

January 31, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4141 (mica)

Applicant: Z. & E. Buchanan

Name and Location of Property: Dewey McKinney Prospect, Mitchell Co., N.C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 1/25/56

Comments:

1. No data available in this office on this property.

2. From the limited information presented, it is difficult to determine if an exploration program is justified or if the proposed plan would be the best method of exploring this property.

Recommendation:

It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

W. F. Dietrich

W. F. Dietrich

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator _____
Docket No. DMEA- _____
Contract No. Idm-E _____
Contract Date _____

CONSENT TO LIEN

RECEIVED
JAN 25 1956

To the United States of America:

Referring to that certain land in the County of Mitchell, State of North Carolina, described as follows:1/ Beginning at a stake at the center of the Dewey McKinney Prospect which is located 160' S.E. of another stake; and running 250' North; thence 250' West; thence 500' South; thence 500' East; thence 500' North thence 250' West to a point of closing. This property located about 4 miles N.E. of Bakersville, N. C.,

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 23rd day of January, 1956.

Delney McKinney [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

RECEIVED

JAN 25 1956

MF-203
Revised March 24, 1955

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Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

CONSENT TO LIEN

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5. Added provision: _____

_____

_____

_____

_____

_____

_____

_____

Dated this 23rd day of January, 1956.

Delwey McKinney [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

MF-203
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EXPLORATION PROJECT CONTRACT
Operator_____
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4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 23rd day of January, 1956.

Dewey McKinney [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

MF-203
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CONSENT TO LIEN

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4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 23rd day of January, 1956.

D. Lucy McKinney [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

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4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 23rd day of January, 1956.

Delsey McKinney [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E
Contract Date

RECEIVED
JAN 25 1956

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Mitchell, State of North Carolina, described as follows:1/ Beginning at a stake in the center of the Percy McKinney Prospect which is located 160' S.E. of another stake; and running 250' North; thence 250' West; thence 500' South; thence 500' East; thence 500' North; thence 250' West to a point of closing. This property located about 4 miles N.E. of Bakersville, N. C.

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1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

_____

_____

_____

_____

_____

_____

_____

Dated this 23rd day of January, 1956.

Delvey McKinney [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

IN REPLY REFER TO:

A

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

RECEIVED
JAN 26 1956

January 26, 1956

Re: DMEA 4141
Zeb and Edgar Buchanan
Dewey McKinney prospect
Mitchell Co., N. C.
$6,600.00 - Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicants request assistance in bulldozing, sinking a shaft and drifting on a newly-discovered pegmatite.

No information concerning the new showing is given but the applicants believe that from the appearance of the vein material ruby mica of strategic value may be found by exploring.

Referral to the Field Team for an appraisal of the appearance of the vein material is recommended.

N. E. Nelson

N. E. Nelson

January 25, 1956

Subject: DMEA-4141
Re: Exploration Assistance
Dewey McKinney Prospect

Mr. Zeb Buchanan
Bakersville, North Carolina

My dear Mr. Buchanan:

The receipt of your application dated January 23, 1956, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4141 and referred to the Nonmetallic Minerals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Approved. 42-R1035.2.

RECEIVED
JAN 25 1956

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-4141
Metal or Mineral Mica
Date Received 1-25-56
Estimated Cost $6,600.00
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Zeb and Edgar Buchanan
Bakersville, N. C.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Legal description given on attached lease.

(*b*) State any mine name by which the property is known. Dewey McKinney Prospect

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Lease attached.

(*e*) If you own the land, describe any liens or encumbrances on it Not owner.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. None

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See sheet.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Mica

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See sheet.

(*c*) The work will start within 30 days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. Now on file with DMEA.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project: See sheet.

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes. Will furnish required 25%

(*b*) How do you propose to furnish your share of the costs? Y

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated January 23, 1956

Zeb and Edgar Buchanan
(Applicant)

By Zeb Buchanan
Partner

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—66551-1

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4. (a) No previous operations. New prospect.

(b) No pastproduction.

(c) From appearance of vein material showing, we believe that ruby mica of strategic quality may be found by exploring.

(d) Project is accessible to roads and shipping.

(e) Materials, supplies, equipment and manpower available. No power nearby.

5. (b) We propose to bulldoze trenches to uncover pegmatite, lower shaft 70' and drift 80' with vein.

6. Estimate of costs:

30 hours Bulldozing @ 10.00 hr.	$ 300.00
70' Shaft @ $50.00 per foot	3500.00
80' Drift @ $35.00 per foot	2800.00
Total estimated cost of project	$ 6600.00

MINING LEASE

RECEIVED
JAN 25 1956

State of North Carolina Mitchell County:

This indenture made this 23rd day of January, 1956, 1953,

between Dewey McKinney

of Mitchell County and State of North Carolina as party of the first part, and known as lessor, and Zeb Buchanan and Edgar Buchanan

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

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:

Beginning at a stake in the center of the Dewey McKinney Prospect which is located 160' S.E. of another stake: and running 250' North; thence 250' West; thence 500' South; thence 500' East; thence 500' North; thence 250' West to a point of closing. This property located about 4 miles N.E. of Bakersville, N.C.

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 condition 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 operatins 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 the 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 1/8 (One-Eighth)

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 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 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 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:

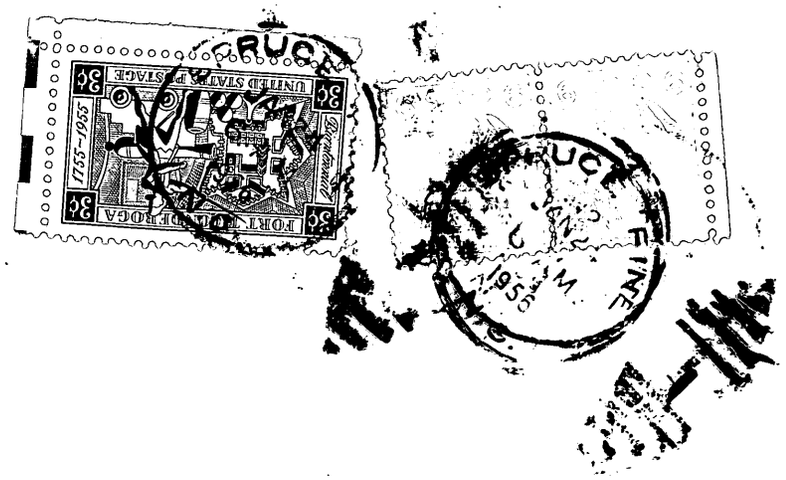
Kenneth R McKinney
Notary Public
My Comm Expires 8/17/57

x Dewey McKinney (Seal)

_____ (Seal)

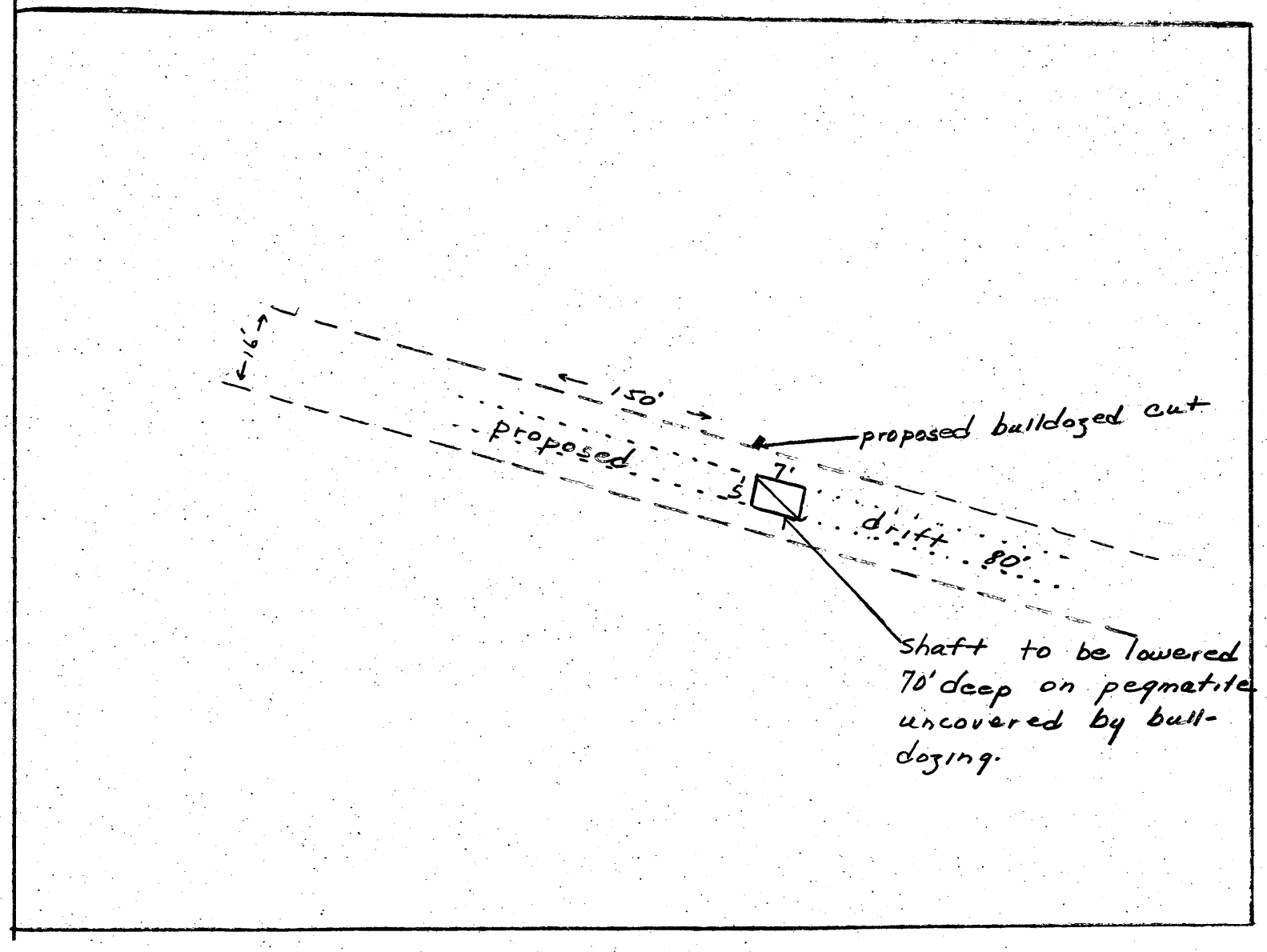
_____ (Seal)

Zeb Buchanan
Bakersville, N. C.



Mr. Lawrence G. Hawk, Chief
Nonmetallic Minerals Division
U. S. Dept. of the Interior, D. M. E. A.
Washington 25, D. C.

DEWEY McKINNEY PROSPECT
Mitchell County, N.C.



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