DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E NO._____ | DMEA NO. 4796

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

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.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this 18th day of July, 1957.

Charles H Buchanan	[Seal]	Norma Buchanan	[Address]
	[Seal]	Spruce Pine, N.C.	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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]

DMEA Form 9
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17963

MF-205
(Combines and supercedes MF-201 and MF-203)
June 1956

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

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

RECEIVED JUL 25 1957 D.M.E.A.

To the United States of America:

Referring to that certain land in the County of Mitchell State of North Carolina, described as follows: 2/

Beginning at a Sycamore on the North bank of a branch, Phillipsburner, and running with said branch about South 70° East 600 feet; South 20° West 600 feet, North 70° West 600 feet; North 20° East, 600 feet to the beginning. This property located one and one-half mile South West of Spruce Pine, North Carolina.,

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;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

None

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

2/ 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.

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this 18th day of July, 1957.

Charles H Buchanan	[Seal]	Norma Buchanan	[Address]
	[Seal]	Spruce Pine, N.C.	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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-205
(Combines and supercedes MF-201 and MF-203)
June 1956

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

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6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this 18th. day of July, 1957.

Charles H Buchanan	[Seal]	Norma Buchanan	[Address]
	[Seal]	Spruce Pine, N.C.	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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.

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[Corporate Seal]

MF-205
(Combines and supercedes MF-201 and MF-203)
June 1956

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

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6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this 16th day of July, 1957.

Charles H Buchanan	[Seal]	Norma Buchanan	[Address]
	[Seal]	Spruce Pine, N. C.	[Address]
	[Seal]		[Address]
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MF-205
(Combines and supercedes MF-201 and MF-203)
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[Corporate Seal]

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 18 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 25 1957

DATE	INITIALS	CODE

July 23, 1957

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tenn.

Subject: Application from Clifton D. Buchanan, Spruce Pine, NC
Cliff Prospect, Mitchell County, N. C. (mica)

Enclosed are the original and two copies of the subject application, received at this office. Only four copies of MF-205 accompanied the application.

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

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

Form MF–103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42–R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Clifton D. Buchanan
Spruce Pine, North Carolina

APPLICANT NOT TO USE THIS BLOCK

Docket Number: 4796
Date Received: 7/25/57
Government Participation %:
Region: V
Division Code: 600

RECEIVED JUL 25 1957 D.M.E.A.

BUSINESS ORGANIZATION (Check one)

- Individual [x]
- Corporation [ ]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: N.C.

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title

RECEIVED JUL 22 1957

Mineral(s) for which you wish to explore: Mica

Estimated Cost of Project: $ 6,200.00

LOCATION OF PROPERTY

Name	County	State
Cliff Prospect	Mitchell	N.C.

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order–I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

7-18-57
Dated

Clifton D. Buchanan
BY *(Signature)*

Owner
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 15539

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DMEA
RECEIVED JUL 25 1951
DATE | NO. | CODE

MF-103 (Continuation Sheet)

1. (a) Description on lease.

   (b) Prospect will be known as Cliff Prospect.

   (c) Lessee

   (d) No lien.

2. (a) This mine has been mined some, years ago, some good quality non-ruby mica was produced.

   (b) Applicant has no interest in previous operations.

   (c) No records available.

   (d) There appears to be a significant amount of Strategic grade mica in vein material.

   (e) Pegmatite vein.

   (f) There is an out-cropping of vein on the surface, and we believe with exploration work good quality non-ruby mica will be recovered.

3. (a) Property can be reached by Jeep, and Mr. Buchanan will meet the DMEA representatives.

   (b) Project is accessible to roads and shipping.

4. (a) We propose to lower a 5' x 7' shaft a depth of 60', then drift a distance of 80' with vein.

   (b) There is no road to be built.

   (c) Work can begin within 15 days after contract is received, and project can be completed within 6 months.

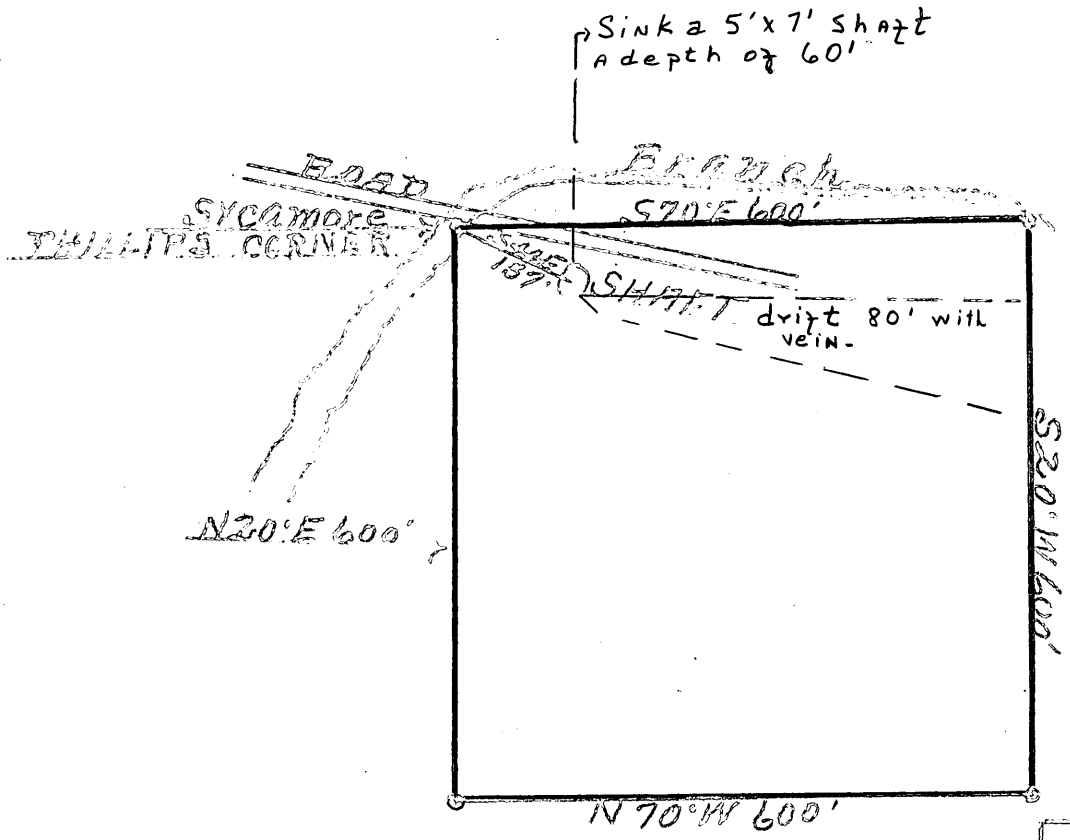
5. Now on file with D.M.E.A.

6. Estimate of Costs:

60' Shaft @ $50.00 per foot	$ 3,000.00
80' Drift @ $40.00 per foot	3,200.00
Total estimated cost of project:	$ 6,200.00

7. (a) Will share cost of proposed project.

   (b) Money and equipment.



CLIFTON BUCHANAN
SCALE - 1" = 200'
JULY 11 1957
BY S. C. HALL

OFFICIAL FILE COPY
D M E A
RECEIVED JUL 26 1957

DATE	INITIALS	CODE

MINING LEASE

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 25 1957
DATE | INITIAL | CODE

State of North Carolina Mitchell County:

This indenture made this 18th day of July, 1957, 195X,

between Charles And Norma Buchanan

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

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

WITNESSETH, That the part 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 Sycamore on the North bank of a branch, Phillips corner, and running with said branch about South 70° East 600 feet; South 20° West 600 feet, North 70° West 600 feet; North 20° East, 600 feet to the beginning. This propetty located one and one-half mile South West of Spruce Pine, North Carolina.

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 Royalty

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:

Jessie Johnson
Mom 32858

x Charles H Buchanan (Seal)

x Norma Buchanan (Seal)

_____ (Seal)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/27	Houk	600
10/2	Selfridge	130
	Cox	130
	Williams	130
	Johnson	110
"	Mittendorf	100
10/2	B	220
		225

600

OCT 2 1957

Mr. Clifton D. Buchanan

Spruce Pine, North Carolina

Re: Docket No. DMEA-4796-Mica
Clifton D. Buchanan
Cliff Prospect
Mitchell County, North Carolina

Dear Mr. Buchanan:

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,

C. O. Mittendorf (for)

Administrator

LGHouk:gad 9/23/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/23	Houk	

September 23, 1957

Memorandum

To: Mr. C. O. Mittendorf, Administrator

From: Lawrence G. Houk, Director, Division of Nonmetallic Minerals

Subject: Evaluation of application and field examination report
Docket No. DMEA-4796-Mica
Clifton D. Buchanan
Cliff Prospect
Mitchell County, North Carolina

Denial of application is recommended.

Mica: Only a few small books of green mica are present in a plagioclase-rich border zone. Muscovite generally is less than two inches in diameter and is stained with iron and biotite. Some is flat "A". About a pound of mine-run recovered during recent bulldozing.

Pegmatite: Seven feet of fine-grained deeply weathered pegmatite and several feet of deeply weathered biotite gneiss along the footwall contact is exposed. A plagioclase border zone about three feet thick occurs near the footwall, but no quartz core or large masses of quartz seen.

Workings: Because of the lack of outcrops in the prospect area during the first examination on August 20, 1957, a second examination was made on September 4, 1957, after a bulldozed trench across the area had been made. The bulldozed trench is 95 feet long, 10 to 25 feet wide and a maximum of 12 feet deep.

Past Production: A shallow shaft or exploration pit was dug several years ago to intersect the extension of a pegmatite exposed along a branch about 55 feet to the northeast. The amount and quality of mica reported to have been recovered from this work is unknown.

Applicant's Proposal:	60 ft. shaft @ $50/ft.	$3,000.00
	80 ft. drift @ $40/ft.	3,200.00
		$6,200.00

8623

Recommendations: The Field Team recommends denial of the application because the pegmatite is fine-grained and contains little mica of strategic quality or size. The Division of Nonmetallic Minerals concurs in the Field Team's recommendation as do the Commodity Members of the Bureau of Mines and the Geological Survey.

LGHouk:gad 9/23/57
Copy to: Admr. R. File
Mr. Houk

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

September 30, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: W. F. Dietrich, Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4796 (mica)

Applicant: Clifton D. Buchanan

Name and Location of Property: Cliff Prospect, Mitchell County, N. C.

Date of Field Team Report: 9/12/57

Date Rec'd. by Br. of Ceramic and Fertilizer Materials: 9/18/57

Field Team Recommendation: Recommend that exploration assistance be denied

Comments:

1. Applicant bulldozed a trench 95 feet long, 10 to 25 feet wide and a maximum of 12 feet deep exposing a deeply weathered fine-grained pegmatite of at least 7 feet thick.

2. Only a few small books of green mica are present; one pound of mine-run mica being recovered during trenching.

3. Possibility for discovery of a worthwhile deposit of strategic mica is considered poor.

Recommendation:

I concur with the recommendation of the field team that exploration assistance be denied.

W. F. Dietrich

W. F. Dietrich

FILE COPY
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RECEIVED OCT 1 1957
DATE | INITIALS | CODE
10/1 | B | 220
10/2 | Hark | 600

IN REPLY REFER TO:

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

September 23, 1957
Re: DMEA 4796
Clifton D. Buchanan
Cliff Prospect
Mitchell County, North Carolina
$6,200.00 - 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 applicant requested assistance in exploring a 7-foot pegmatite naturally exposed by a branch and a trench.

Only one pound of mica was recovered in the trenching and only small books, less than 2 inches, are present in the plagioclase-rich zone.

In the opinion of the examiners, the pegmatite lacks strategic mica bearing potential and they recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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9/24	B	220
9/25	Houk	600

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

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RECEIVED SEP 16 1957

DATE	INITIAL	CODE
9-17	C	220
		1302
9-23	C	220
9/23	Houl	600

September 12, 1957

Memorandum

To: Operating Committee, DMEA, Washington, D. C.

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

Subject: Field Examination Report, DMEA-4796 (Mica)
Clifton D. Buchanan, Spruce Pine, North Carolina
Cliff Prospect, Mitchell County, North Carolina

Enclosed are the original and two copies of the subject field examination report.

It is recommended that exploration assistance be denied.

Robert A. Laurence

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

S A Feitler

S. A. Feitler, for V. J. Lynch
Member, Bureau of Mines

Enclosures 3

Reviewed by
DMEA OPERATING COMMITTEE
9-20-57
(date)

On-Site Exam Rpt.

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UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT

DMEA-4796, (mica) CLIFF PROSPECT
Mitchell County, North Carolina

Frank G. Lesure, Geologist
Geological Survey

Lawrence E. Shirley, Mining Engineer
Bureau of Mines

Sept. 12, 1957

Reviewed by
DMEA OPERATING COMMITTEE
9-20-57
(date)

FIELD EXAMINATION REPORT

DMEA-4796, CLIFF PROSPECT (mica)
Mitchell County, North Carolina

Applicant: Clifton D. Buchanan, Spruce Pine, North Carolina

SUMMARY

A deeply weathered fine-grained pegmatite at least 7-feet thick is exposed in the bottom of a recent trench on the property. Only a few small books of green mica are present in a plagioclase-rich border zone. It is recommended that exploration assistance be denied.

INTRODUCTION

The Cliff Prospect was first examined on August 20, 1957, Mr. C. D. Buchanan accompanied the Examiners but no report was prepared at that time because of a lack of outcrops in the Prospect area. A second examination lasting one hour was made on September 4, 1957, after a bulldozed trench across the Prospect area had been made at the Applicant's expense. Mr. C. D. Buchanan again accompanied the Examiners.

Location: The Cliff Prospect is on the southwest side of Chalk Mountain about 235 feet southwest of the Boone Mine (DMEA-4449) and 2.4 miles S58°W from Spruce Pine, Mitchell County, North Carolina. The Prospect may be reached by car on a farm road that connects with N.C. State Highway 19E about 0.6 miles to the northwest.

Previous Operations: A shallow shaft or exploration pit was dug several years ago to intersect the extension of a pegmatite exposed along a branch about 55 feet to the northeast (see attached map). Mica is reported to have been recovered from this work, but the amount and quality are not known. At the time of the first

field examination only the outcrop of pegmatite in the branch north of the leased area (see attached map) and the caved test pit were present. The Applicant at his own e xpense bulldozed a trench 95 feet long, 10 to 25 feet wide, and a maximum of 12 ft deep. About a pound of mine-run mica was recovered during this work.

No facilities except a pump are present on the property. Electric power and water are readily available. The trench is quite wet and a heavy flow of water, probably from the nearby branch, enters the trench along the contact between the alluvium and country rock (see attached map).

GEOLOGY

In the bottom of the new trench about 7 feet of fine-grained deeply weathered pegmatite and several feet of deeply weathered biotite gneiss along the foot wall contact are exposed. The footwall contact strikes N5°E and dips 70° northwest; the hanging wall contact is not exposed. More than 10 ft of coarse alluvium overlies the pegmatite and gneiss. A plagioclase border zone about 3 ft thick occurs near the footwall but no quartz core or large masses of quartz were seen. Small books of muscovite generally less than 2 inches in diameter are present in the plagioclase-rich zone. This mica is green, flat, and hard. It is stained with iron and contains some biotite. Some of it is flat "A".

RECOMMENDATIONS

It is recommended that exploration assistance be denied because the pegmatite is fine-grained and contains little mica of strategic quality or size.

9/12/57

z

F. G. Lesure, Geologist
Geological Survey

L. E. Shirley, Mining Engineer
Bureau of Mines

DMEA Form 7
(12-56)

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Date	Surname	Code
7/30	Houk	600
7/31	Martin	130
"	Johnson	110
"	Whittenberg	100
7/31	C	220
		600

600

JUL 31 1957

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

Re: Docket No. DMEA-4796-Mica
Clifton D. Buchanan
Cliff 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 July 26, 1957, by Mr. N. E. Nelson, USGS, and Mr. Donald R. Irving, USBM, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

Approved:

Frank D. Lamb
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

Enclosures 5

LGHouk:gad 7/29/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

OFFICIAL FILE COPY
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RECEIVED JUL 29 1957

IN REPLY REFER TO:

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

July 26, 1957
Re: DMEA 4796
Clifton D. Buchanan
Cliff Prospect
Mitchell County, N. C.
$6,200 - Mica

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring a pegmatite by shaft sinking 60 feet and drifting 80 feet.

The pegmatite, on which work has been done and which is said to have produced some good mica, crops out in one place. No data are given concerning the width and altitude of the vein or the geologic environment.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 29 1957

DATE	INITIALS	CODE
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		600
July 26, 1957		

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Donald R. Irving, Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4796 (mica)

Applicant: Clifton D. Buchanan

Name and Location of Property: Cliff Prospect, Mitchell County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 7/25/57

Comments:

1. Applicant wishes to explore a pegmatite vein on which there has been previous work.

2. Applicant claims there was some good quality non-ruby mica produced.

3. Estimated costs are in line with equivalent DMEA projects.

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.

Donald R. Irving

Donald R. Irving

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

July 25, 1957

Clifton D. Buchanan
Spruce Pine
North Carolina

Subject: DMEA 4796

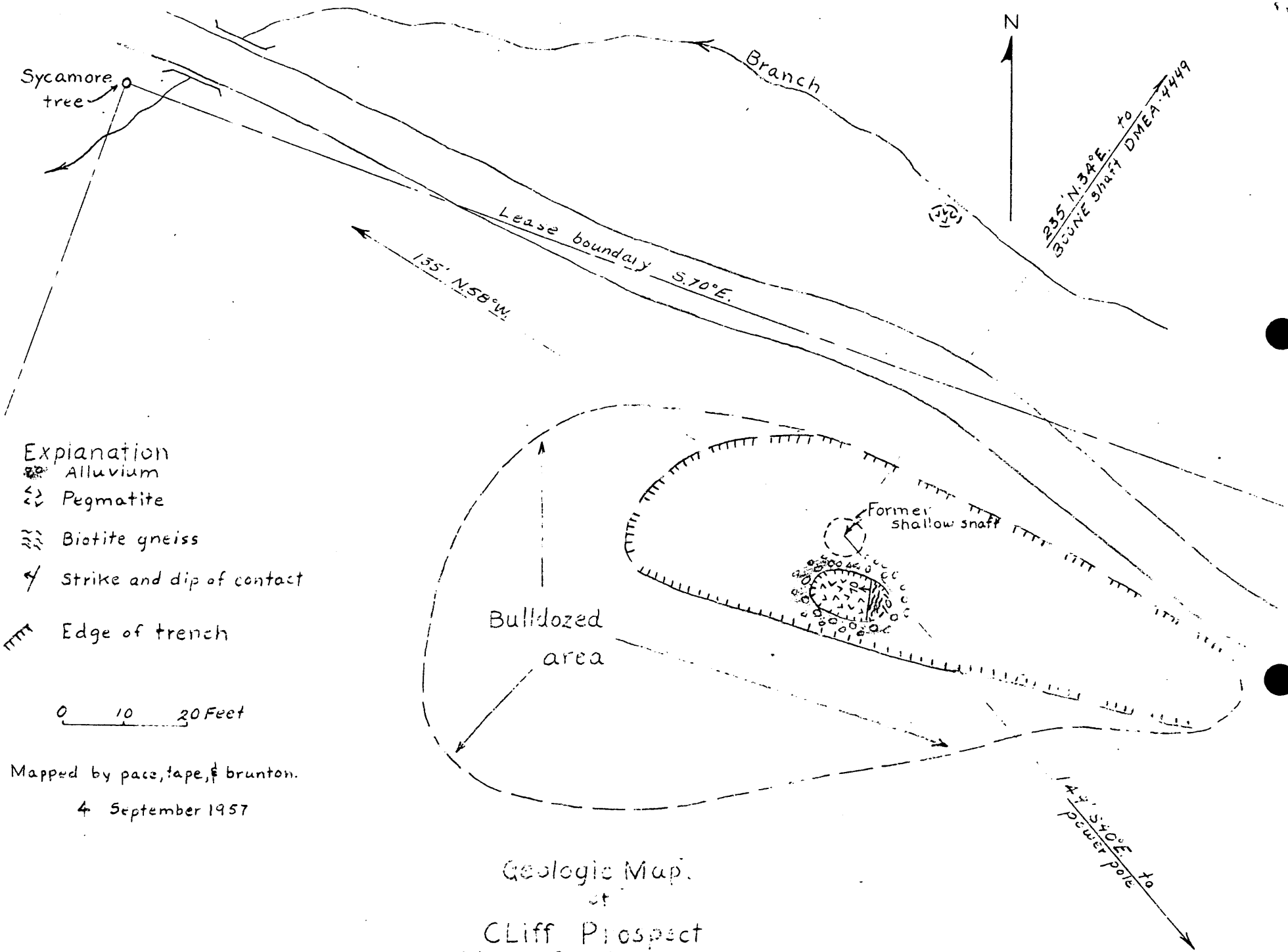
Dear Mr. Buchanan,

Your application for exploration assistance, dated July 18, 1957 submitted to our office at Knoxville, Tennessee has been assigned Docket Number 4796 and referred to the Division of Nonmetallic Minerals in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:
Region V



Geologic Map
of
CLiff Prospect
Mitchell County, North Carolina
DMEA-4796 (mica)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/30	Houk	600
7/31	Martin	130
"	Johnson	110
"	Mittendorf	100
		220
7/31	Lamb	130
7/31	Kiilsgaard	130

600
JUL 31 1957

Mr. Clifton D. Buchanan

Spruce Pine, North Carolina

Re: Docket No. DMEA-4796-Mica
Clifton D. Buchanan
Cliff Prospect
Mitchell County, North Carolina

Dear Mr. Buchanan:

Your application for assistance in exploring the subject property has been reviewed by the Division of Nonmetallic Minerals 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,

C. O. Mittendorf (fw)

Administrator

LGHouk:gad 7/29/57
Copy to: Admr. R. File
Field Team, Region V
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

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