DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4937

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- [ ] Withdrawn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

Right Side

- [x] Project summary (final)
- [x] 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
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [x] Interim Field Team Reports
- [x] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [x] 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

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
4/7	Anderson	600
4/8	Hook	600
4/8	Talbert	800
4/8	Selbridge	1205
		110
4/9	C	220
		600

600

APR 9 1959

McMahan, Young & Pitman
c/o Dewey Young
Route 1
Bakersville, North Carolina

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1205

Gentlemen:

Reference is made to your terminated exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

We appreciate your interest and participation in the DMEA exploration program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

WCAnderson:gad 4/7/59
Copy to: Dir. R. File
Region V
Mr. Kiilsgaard, USGS
Mr. Dietrich, USBM
Audit
Mr. J. Fuller Brown
President, Western Carolina Mica Co.
P. O. Box 318
Newport News, Virginia

Mrs. Margaret S. Penland
Attorney-in-Fact for C. C. Guy heirs
Newland, North Carolina

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
4/7	Anderson	600
4/8	Hook	600
4/8	Fallert	800
4/8	Selfridge	120
		110
		220

600

APR 9 1959

Mr. J. Fuller Brown
President, Western Carolina Mica Company
P. O. Box 318
Newport News, Virginia

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1205

Dear Mr. Brown:

Enclosed is a copy of a self-explanatory letter of today to the Operators under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on January 24, 1958, under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Enclosure

WCAnderson:gad 4/7/59
Copy to: Dir. R. File
Region V
Mr. Chambers
Mr. Kiilsgaard, USGS
Mr. Dietrich, USBM

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
4/7	Anderson	600
4/8	Zook	600
4/8	Taffert	800
4/8	Selfridge	120
		110
		220

600

APR 9 1959

Mrs. Margaret S. Penland
Attorney-in-Fact for C. C. Guy heirs
Newland, North Carolina

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1205

Dear Mrs. Penland:

Enclosed is a copy of a self-explanatory letter of today to the Operators under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on January 24, 1958, under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Enclosure

WCAnderson:gad 4/7/59
Copy to: Dir. R. File
Region V
Audits
Mr. Kiilsgaard, USGS
Mr. Dietrich, USBM

43683

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

McMahan, Young & Pitman
c/o Dewey Young
Route 1, Bakersville, North Carolina

pertaining to Exploration Project Contract No. Idm-E1205, DMEA-4937, for June-July 1958 and August 1958, inclusive, covering a mica project at the Lick Ridge Mica Prospect, Mitchell County, North Carolina.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, verification of work performed by reference to Field Team reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the reason that:

All of the costs were under a contract provision for payment by the Government on the basis of fixed unit costs for work performed.

The findings of this review are stated in the following summary:

Total cost billed by Operator		$3,764.00
Exceptions:		
Prior to this review	$ -0-	
Herewith	-0-	-0-
Total acceptable cost, if claimed		$3,764.00

The contract calls for a 75 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as having met the terms of the contract, payments as follows are valid and proper:

Payable on audited claim	$2,823.00
Paid to date	2,035.50
Balance due Operator	$ 787.50

E. D. Talbert, Auditor

September 19, 1958

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

June 23, 1958

Memorandum

To: Operating Committee, DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville, Tenn.

Subject: Signed Contract - DMEA-4937, Idm-E1205-mica.
McMahan, Young & Buchanan, Ptners.
Lick Ridge Mine, Mitchell County, N.C.

Transmitted are the Government and Audit copies of the subject signed contract.

The usual distribution of the other copies has been made.

Robert A. Laurence
Robert A. Laurence

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 25 1958

DATE	INITIALS	CODE
6/25	C	320
6/26	B	225
6/26	Hook	600

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 25 1958

DATE	INITIALS	CODE

Government Copy

MF-200A
(Rev. April 1956)

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT
(Short Form)

DMEA No.	Commodity	Contract No. Idm-E	County	State
4937	Mica	1205	Mitchell	North Carolina

It is agreed 13 JUN 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and McMahan, Young & Pitman, a partnership composed of Paul McMahan, Dewey Young and Bill Pitman

whose mailing address is McMahan, Young & Pitman, c/o Dewey Young Route 1, Bakersville, North Carolina
hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF–200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before 30 days from date of contract, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within six months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $3,764.00. The Government will contribute 75 percent of the fixed unit cost of the work performed, not exceeding $2,823.00, in accordance with the provisions of Articles 4 and 5.

(c) The Operator shall not transfer or assign this contract or any right or obligation thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's rights of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances: interests of lessor

(b) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached, as follows: Consent to Lien and Subordination Agreement of lessor

(c) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. The Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing

in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. Two copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 6 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. *Performance of the work.*—(a) Operator's responsibility.—The work shall be performed diligently, efficiently, expertly, in a workmanlike manner, and in accordance with good mining standards and State regulations governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work, as specified in Article 1 (a).

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after certification of discovery or development, to inspect production operations and underground workings. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. *Contribution by the Government.*—The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5 (b); but all payments by the Government are provisional only, subject to audit, and until the account between the Operator and the Government is finally audited and settled and the Operator's final report has been rendered, the Government may withhold such sums as it sees fit but not in excess of 10 percent of the estimated total cost of the work. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government will not contribute to the cost of any work performed prior to the date of this contract. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(a) Operator's records.—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine all pertinent books, documents, papers, and records of the Operator.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 6. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered a sufficient final report (see Article 5), may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling, assaying, or transportation performed or paid by the Operator or by anyone other than the buyer are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent) after the lapse of six months from the date the ore was extracted from the ground remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this Article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 7. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 7 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and liens to secure the payment thereof, and such rights shall be fully preserved.

ARTICLE 8. *Notices to be given by the Government* may be delivered to the Operator or may be sent by registered mail addressed to the Operator at the mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 9. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 10. *Changes and added provisions.*—

.....

.....

.....

.....

.....

.....

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

McMahan, Young & Pitman
(Operator)

By Paul McMahan

By Dewey Young

By Bill Pitman

By O. P. Mitteudorf
Administrator, Defense Minerals
Exploration Administration

Boston
Dwyer
Anderson
Reg'd. Sol. Off.

I, ..., certify that I am the Hon. ..... secretary of the corporation named as Operator herein; that ....., who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

.....

[CORPORATE SEAL]

Chambers
Selfridge
Johnson

U. S. GOVERNMENT PRINTING OFFICE: 1956—O-383069

EXPLORATION PROJECT CONTRACT
MCMAHAN, YOUNG AND PITMAN
DOCKET NO. DMEA-4937

ANNEX I

The land referred to in Article 2 of the contract is known as the Lick Ridge Mica Prospect and is located on the south slope of Meadlock Mountain near the head of McKinney Cove, 1.0 mile N. 26 degrees E. from McKinney Cove Church, Mitchell County, North Carolina. The land is more particularly described as follows:

> "Beginning on a stake which is located South 50 feet from the Lick Ridge Mine: Thence South 250 feet to a stake: Thence East 300 feet to a stake: Thence North 600 feet to a stake: Thence West 600 feet to a stake: Thence South 600 feet to a stake: Thence East 300 feet to a point of closure: The South West corner of this legal description being located 23' East 600 feet from a stake in the outside boundary line."

The Operator is in possession of the land pursuant to the terms of a mining lease agreement with the Western Carolina Mining Co., dated January 29, 1958, and recorded in the Register of Deeds Office for Mitchell County, North Carolina in Book No. 86, at Page 469. The term of the lease is for 5 years, renewable.

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 13 JUN 1958

RECEIVED
FEB 6 1958
D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of MITCHELL, State of NORTH CAROLINA described ~~as follows~~ IN A CERTAIN MINING LEASE, DATED JANUARY 7TH, 1958, AND DULY RECORDED IN THE REGISTER OF DEEDS OFFICE FOR MITCHELL COUNTY, N.C. IN BOOK # 86, PAGE # 469 OF SAID OFFICIAL RECORDS OF SAID COUNTY AND STATE.

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.)

LESSOR OWNS MINERALS AND WORKING RIGHTS ONLY

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. THIS CONSENT TO LIEN SHALL NOT REMAIN IN FORCE FOR MORE THAN A MAXIMUM OF 10-YEARS

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

Dated this 24th day of January, 1958.

WESTERN CAROLINA MICA COMPANY	[Seal]	J. Fuller Brown President P.O. Box 318 Newport News, Virginia	[Address]
	[Seal]	Margaret S. Pinland, Att-in-Fact for C. C. Guy legal heirs	[Address]
	[Seal]		[Address]
	[Seal]	address - Mrs. Margaret S. Pinland	[Address]
	[Seal]	Newland, No. Car.	[Address]
	[Seal]		[Address]

I, V. Jordan Brown certify that I am the Secretary (Secretary, etc.) of the corporation named herein; that J. Fuller Brown who signed this agreement was then President (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.

V. Jordan Brown
[Corporate Seal]

EXPLORATION PROJECT CONTRACT
MCMAHAN, YOUNG AND PITMAN
DOCKET NO. DMEA-4937

EXHIBIT A

Description of the Work

Exploration for concentrations of strategic mica shall be performed in the area indicated on the attached map entitled "Lick Ridge Mine, Mitchell County, N. Carolina, DMEA-4937," as follows:

1. Repair approximately 2,000 feet of access road. The excavation for the road shall not exceed 500 cubic yards.

2. Construct:

(a) A toolhouse, minimum dimensions 7 feet by 8 feet by 10 feet.

(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 2½ feet.

(c) An exploder storage magazine, minimum dimensions 2 feet by 1½ feet by 1 foot.

The toolhouse may be unfloored; shall be made from unfinished lumber, with protective roof covering; and shall be equipped with lock and key.

The powder and exploder magazines shall be boxed on all sides; shall be made from 2-inch hardwood or 3-inch softwood lumber; and shall be braced at the corners. No metal shall be exposed; and the doors shall be equipped with the equivalent of a 5-tumbler jarproof lock.

3. From approximately the center of the open cut, drive not more than 100 feet of inclined drift along the footwall of the pegmatite.

The inclined drift shall be timbered as necessary and shall have minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

All work shall be performed on the pegmatite or in as close proximity thereto as possible.

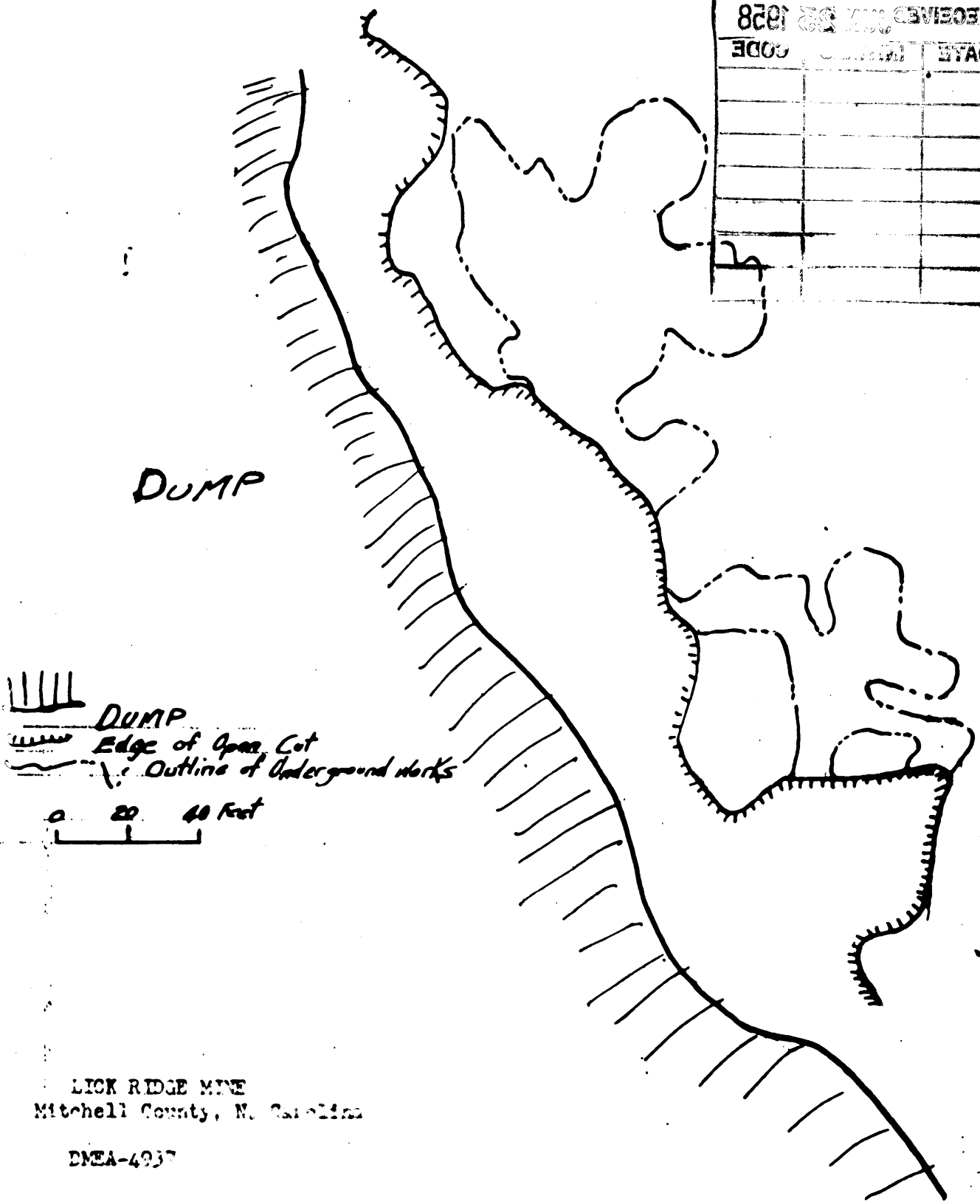
The locations, inclinations, directions, and extent of all work are subject to the approval of the Government.

ESTIMATED COSTS OF THE PROJECT

Fixed Unit Costs

1.	Repair access road - 500 cubic yards of excavation @ $0.30/ cubic yard		$150.00	
2.	Construct - Toolhouse 1/	$75.00		
	Powder magazine 1/	25.00		
	Exploder magazine 1/	14.00	114.00	
3.	Drive 100 feet of inclined drift @ $35.00/ft.		3,500.00	
	Estimated total cost of project			$3,764.00
	Government participation @ 75%			$2,823.00

1/ The completed work constitutes the unit.



LICK RIDGE MINE
Mitchell County, N. Carolina

DMEA-4937

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

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 6

DATE	INITIALS	CODE

February 4, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Application from McMahan, Young & Pitman - Lick Ridge Mica Prospect, Mitchell County, N.C. (mica)

Enclosed are the original and two copies of the subject application, received here February 3, with six signed copies of the Consent to Lien and one copy of the lease.

The fourth copy has been retained for our files.

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

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

DMEA

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)

McMahan, Young & Pitman (Partnership)
c/o Dewey Young
Rt.1. Bakersville, North Carolina.

Partnership composed of:
Paul McMahan, Rt.1. Bakersville, N.C.
Dewey Young, Rt.1. Bakersville, N.C.
Bill Pitman, Rt.1. Bakersville, N.C.

APPLICANT NOT TO USE THIS BLOCK

Docket Number: 4937
Date Received: 2-6-58
Government Participation %:
Region: V
Division Code: 600

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized: North Carolina

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Not Applicable		

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

Estimated Cost of Project: $

LOCATION OF PROPERTY

Name	County	State
Lick Ridge prosp. Bakersville, Tp.	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.

January 7th, 1958
Dated

McMahan, Young & Pitman, (Pt'ship)
✓ Dewey Young (~~Partner~~)
(By signature)
Rt.1. Bakersville, N.C.

Partner
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

Re: McMahan, Young & Pitman (Ptn'ship)
c/o Dewey Young
Rt.1. Bakersville, N.C.

(Lick Ridge Mica Prospect)
(Mitchell County, N.C.)

SUPPLEMENT SHEET NO. 1.
-re-
FORM MF-103, (Revised)

Sect. 1-(a) Applicants Property Rights.

. The mica prospect hereinafter known and referred to as the "Lick Ridge Mica Prospect", is located in Bakersville, Township, Mitchell County, N.C. about 3 miles NE of Bakersville at the head of the McKinney Cove public road. The property described on the mining lease attached hereto has been leased by the applicants for a period of (5) years. Applicants have no other intrest in the property other than that as Lessee's.

(b) . The Mica Prospect covered by this application for loan is known as the " Lick Ridge Mica Prospect".

(c) . The applicants have no other intrest in the property under lease other than that of Leesee's under terms of a (5) year mining lease. (see lease attached)

(d) . In so far as the applicants know or can learn, there is no lien or other encumbrances against the property covered by lease.

Sect. 2- (a) . Physical Description Of Mining Property.

The Lick Ridge Mica Prospect is located on the South side of a prominient ridge several hundred yards above and beyond the head of the McKinney Cove public road and approximately 3 miles NE from the courthouse in Bakersville, N.C. No accurate date can be established as first mining work done. There has been several mining operations at the site over a great number of years previously. The present old works consists of two different drifts driven with the run or strike of the main pegmatite body to the North-Northeast. These drifts are about 100-125 feet apart and have been driven about 50 and 75 feet respectfully. Quite unusual to this section of the mica country, the formation of the pegmatite body lys quite flat with little or no pitch downward between the slates. The width of the main body between the hanging wall and footwall slates will average some 10 feet. The body formation consists of hard feldspar with which is intermingled small, medium and occasonally large pods of quartz. There seems to be an absence of any permanent quartz core as is noted in most mica formations in this county. Large quanities of a good grade of green mica in books up to size 6" X 8" has been mine and sold from this property.

(b) . None of the applicants had any intrest or part of any previous mining operation at this property.

(c) . The last active operation of this mine was in 1955 when Dall Young, et als. operated same under lease. During this period of operation, the operators recovered, processed and sold over $ 50 worth of high grade mica to the U.S. Mica Depot located at Sp Pine, N.C. and a record of these sales are filed in this off e verify this claim. No data is available on production pr 1955.

(d) . As set out in paragraph (c) above, large quanitie mica of green color has been mined and sold from this past mining operations. Practically all thia mica w the two drifts described in Sect. 2-(a) above. The ap good reason to beleive that large reserves of high grade

To: Hickman, Young & Burns (Attorneys)
c/o Harry Young,
R.F.D. Huntersville, N.C.

{ Rock Ridge Mica Prospect }
{ Mitchell County, N.C. }

SUPPLEMENT SHEET NO. 1.
-to-
FORM MT-103, (revised)

Sect. 1-(a) Applicants Property Rights.

. The mica prospect hereinafter known and referred to as the "Rock Ridge Mica Prospect", is located in Huntersville, Township, Mitchell County, N.C. about 3 miles NW of Huntersville on the head of the Hickory Cove public road. The property described on the mining leases attached hereto has been leased by the applicants for a period of (5) years. Applicants have no other interest in the property other than that as lessees.

(b) . The Mica Prospect covered by this application for lease is known as the " Rock Ridge Mica Prospect".

(c) . The applicants have no other interest in the property under lease other than that of lessee's under terms of a (5) year mining lease. (see lease attached)

(d) . In so far as the applicants know or can learn, there is no lien or other encumbrances against the property covered by lease.

Sect. 2- (a) . Physical description of Mining Property.

The Rock Ridge Mica Prospect is located on the South side of a prominent ridge several hundred yards above and beyond the head of the Hickory Cove public road and approximately 3 miles in from the courthouse in Huntersville, N.C. No accurate data can be established as first mining work done. There has been several mining operations at the site over a great number of years previously. The present old works consists of two different shafts driven with the aid of aids of the main perpendicular body to the North-Eastern. These shafts are about 100-125 feet apart and have been driven about 50 and 75 feet respectively. Quite unusual to this province of the Mica country, the formation of the permatite body lye rather flat with little or no pitch downward between the shafts. The depth of the main body between the hanging wall and footwall shafts will average some 10 feet. The body formation consists of red feldspar with which is intermingled small, medium and occasionally large rocks of quartz. There seems to be an absence of any permanent surface core as is usual in most mica formations in this country. Many particles of a good grade of green mica in books up to size 6" x 8" are soon mined and sold from this property.

(b) . None of the applicants had any interest or part of any previous mining operation on this property.

(c) . The last active operation of this mine was in 1955 when Collins Young, et als, operated same under lease. During this period of operation, the operators recovered, processed and sold over 20,000 worth of high grade mica to the [illegible] Mica Corporation located in Burnsville, N.C. and a record of these sales are filed in this office to verify this claim. No data is available on production prior to 1955.

(d) . As set out in paragraph (c) above, large quantities of high grade of green color has been mined and sold from this property past mining operations. Necessarily all this mica was recovered the two duties described in Sect. 2-(a) above. The applicants good reason to believe that large reserves of high grade mica

Re: McMahan, Young & Pitman (Pt'ship)
c/o Dewey Young,
Rt.1. Bakersville, N.C.

(Lick Ridge Mica Prospect)
(Mitchell County, N.C.)

SUPPLEMENT SHEET NO. 2.
-re-
FORM MF-103, (Revised)

Sect. 2-(d) continued----

recoverd by driving a third or new drift into and along the strike of the main pegmatite body at a point midway between the two old drifts and then crosscutting the body after sufficient penetration has been accomplished by means of the new drift.

(e) . The main pegmatite body some 10 foot thick between the slate binders, crosses the property on a course running approximately NE*SW. The body between the slate binders lys unusually flat with little or no pitch of the body noticable in the two open drifts. The most important marks of old workings, (2) drifts driven into and then with the strike of the body, are approximately 50 feet and 75 feet long respectfully. Hard feldspar and quartz make up the main composition of the pegmatite body. No permanent quartz core is present. The mica books are green in color of good hard texture and are medium to large in size.

(f) . The applicants, all fully experienced mica miners, feel confident that a large reserve of unmined mica has been left by the previous operators due to the large area yet unmined especially at a point midway between the location of the 2 old drifts heretofore mined and from which large quanities of high grade mica was recovered and sold from this property. The record of quality and quanity of mica previously mined from this property as well as records of all previous sales of processed mica, are available at the U.S. Mica Depot, Spruce Pine, N.C.

(g) . No geologic or engineering reports or assays are available.

Sect. 3-(a) Accessibility To Project.

From courthouse in Bakersville, N.C. take Cane Creek road East to eastern edge of Bakersville business district, (approximately 1/8 mile) to the intersection of McKinney Cove road at a point near the W.B. Masters residence. Turn North-Northeast on McKinney Cove road (gravel) and go to the extreeme head of said road approximately (2) miles. A mining road connects with head of McKinney Cove road that leads to proposed mining project site. This mine road can be traveled by jeep alone especially during frozen, wet or other enclement weather conditions.

(b) . The nearest railway shipping point is located at Toecane, N.C. about 6 miles from proposed mining site. The nearest mining supply point ia at Spruce Pine, N.C. about 15 miles from mining site. All employess engaged on this proposed project reside within a radius of 6 miles from the mining site via good year round roads.

Sect. 4-(a) . The Exploration Project.

The mining operation as proposed is as follows: At a point midway between the present two old drifts described in Sect. 2-(a), it is proposed to drive a new or third drift into and then with the run or strike of the main pegmatite body. This new drift would be for a distance of 300 feet with the Northeast strike of the body and at point beyond the deepest point of the two old drifts, thus no contact with old works would be made. At the 100 ft point and again at the 200 ft point along the new drift, a crosscut drift would

Sec. 2-(d) continued----

recovered by driving a third or new drift into and along the north of the main pegmatite body at a point midway between the two old drifts and then crosscutting the body after sufficient exploration has been accomplished by means of the new drift.

(e) . The main pegmatite body some 10 feet thick between the three Giraders, crosses the property on a course varying approximately N-S. The body between the alone Giraders lies immediately left hand hillside or the piece of the body noticeable in the two open drifts. The most important masses of old workings, (3) drifts driven into the rock which strike of the body, are approximately 30 feet and 75 feet long respectively. Hand Gelsopper the quartz veins are the main constituents of the pegmatite body. No permanent quartz core is present. The mica books are green in color of good hard texture and are medium to large in size.

(f) . The applicants, all fully experienced mica miners, feel certain that a large reserve of mashed mica has been left by the previous operators due to the large area yet remained especially at a point midway between the location of the 2 old drifts mentioned and from which large quantities of high grade mica was recovered and sold from this property. The record of mining activity of mica previously mined from this property as well as records of all previous sales of processed mica, are available to the U.S. Mica Depot, Spruce Pine, N.C.

(g) . No geologic or engineering reports or assays are available.

Sect. 3-(a) Accessibility to Project.

From townhouse in Hickorville, N.C. take main branch road east to eastern edge of Hickorville business district, (approximately 1/8 mile) to the intersection of Hickory Cove road at a point near the N.C. nurses residence. Turn North-Northeast on Hickory Cove road (gravel) and go to the extreme head of said road approximately (3) miles. A mining road connects with head of Hickory Cove road that leads to proposed mining project site. This mine road can be travelled by jeep alone especially during frosen, wet or other disagreeable weather conditions.

(b) . The nearest railway shipping point is located at Spruce, N.C. about 6 miles from proposed mining site. The nearest mining supply point is at Spruce Pine, N.C. about 15 miles from mining site. All employees engaged on this proposed project reside within a radius of 6 miles from the mining site via good year round roads.

Sect. 4-(a) . The Exploration Project.

The mining operation as proposed is as follows: In a south-way between the present two old drifts described in Sect. 2-(c), it is proposed to drive a new or third drift into and then with the run or strike of the main pegmatite body. This new drift would be for a distance of 200 feet with the forehead strike of the body and at a point beyond the deepest point of the two old drifts. From no contact with old works would be made. At the 100 ft point and again at the 200 ft point along the new drift, a crosscut drift would be

Re: McMahan, Young & Pitman (Ptnship)
c/o Dewey Young,
Rt.1. Bakersville, N.C.

(Lick Ridge Mica Prospect)
(Mitchell County, N.C.)

SUPPLEMENT SHEET NO. 3.
-re-
FORM MF-103, (Revised)

Sect. 4-(a) Continued.---

driven each way, (East-West) across the strike of body for a distance of 50 feet each way, thus a crosscut 100 ft at the 100 ft point of main drift, and 100 ft at the 200 ft point of the main drift, or a total of 200 ft crosscut driftage. 300 ft main driftage.

(b). The present excess road to project having washed considerably since date of last mining operation in 1955, will have to be reworked with bulldozer. It is estimated that it will require some 30 hours work with bulldozer to put excess road in proper condition.

(c). In event the applicant for proposed mining project is approved, work on the project can get under way within a period of not over 30 days time. If the driftage footage as requested is approved, it is estimated that a period of 48 weeks will be required to carry out the proposed mining project. This estimate is based upon anticipated penetration in drifts of 10 to 12 feet per week of 40 hrs per week.

Sect. 5. . Experience Of Applicants.

All the applicants are thoroughly experienced in mica mining all having had 5 years or more actual mining experience. The supervision of all mining operations of proposed project will be under the perso-supervision of Mr. Bill Pitman, one of the applicants.

Sect. 6. . Estimate of Costa Of Project By Units.

(a) Independent Contracts----NONE.

(b) Labor & Supervision. (Ample labor available when needed)

No.	Class	Hrly Rate	Wkly Rate	Mthly Rate	Estd Cost For The 48 week period
1	Supervisor	$ 1.50	$ 60.00	$ 240.00	$ 2,880.00
1	Drill Operator	1.50	60.00	240.00	2,880.00
2	Muckers @ 1.25 hr ea.	2.50	100.00	400.00	4,800.00
4 Man Crew----------		$ 6.50	$ 220.00	$ 880.00	$10,560.00

(c) Operating Mat & Supplies--(Cash Basis)

Unit	Items	No Unit	Unit Cost	Estimated Cost For Period	
Gal.	Gasoline	1800	0.24	$ 432.00	$ 432.00
Qts.	Motor Oil	400	.25	100.00	100.00
Ea.	Lubricator	1	20.00	20.00	20.00
Lft.	1" Air line	400	.16	64.00	64.00
Lbs.	Dynamite	1600	.25	400.00	400.00
Ea.	El Exploders	1200	.16	192.00	192.00
Lft.	Air Hose	50	1.00	50.00	50.00
Lft.	Drill Steel	24	6.40	153.60	153.60
Ea.	Blasting Box	1	45.00	45.00	45.00
Lft.	Steel railing	1000	.30	300.00	300.00
Ea.	Mine Car	1	50.00	50.00	50.00
TOTALS----------				$1806.60	$ 1806.60

To: Jordan, Long & Finney (Totally)
c/o Henry Long,
R.I. Beaverville, O.

(Lick Ridge Idec Prospect)
(Pittsburgh County, ...)

SUPPLEMENT SHEET NO. 3.

-To-

FORM RF-102. (Revised)

Item. 4-(a) continued.---

driven each way, (East-West) across the surface of only from a distance of 50 feet each way, thus a crosscut 100 ft at the 100 ft point of main drift, and 100 ft at the 200 ft point of the main drift, or a total of 200 ft crosscut drifting. 300 ft main drifting.

(b). The present access road to project having washed considerably since date of last mining operation in 1955, will have to be repaired with bulldozer. It is estimated that it will require some 30 hours work with bulldozer to put access road in proper condition.

(c). In event the applicant for proposed mining project is approved, work on the project can get under way within a period of not over 30 days time. If the mainline footage as requested is approved, it is estimated that a period of 40 weeks will be required to carry out the proposed mining project. This estimate is based upon actual total production in drifts of 10 to 12 feet per week of 40 hrs per week.

Item. 5. Experience of applicants.

All the applicants are thoroughly experienced in hand mining all having had 5 years or more actual mining experience. The experience of all mining operations of proposed project will be under the personal supervision of Mr. Bill Jones, one of the applicants.

Item. 6. Estimate of costs of Project by units.

(a) Independent Contracts----None.

(b) Labor & Supervision. (Couple labor available when needed)

No.	Class	Daily rate	Daily wage	Daily rate	Total cost for the 40 week period
1	Supervisor	@ 1.50	@ 60.00	@ 240.00	$ 2,880.00
1	Drill Operator	1.50	60.00	240.00	2,880.00
2	Workers @ 1.25 hr ea.	2.50	100.00	400.00	4,800.00
4 man Crew----------		6.50	220.00	880.00	10,560.00

(c) Operating cost & Supplies--(Each Crew)

Unit	Items	No. Unit	Unit cost	Estimated cost for period
Gal.	Gasoline	1800	0.24	$ 432.00
Qts.	Motor Oil	400	.25	100.00
Ea.	Lubricator	1	20.00	20.00
Pcs.	1" Air line	400	.16	64.00
Lbs.	Dynamite	1600	.25	400.00
Ea.	Gal Exploders	1200	.16	192.00
Ft.	Air hose	50	1.00	50.00
Ft.	Drill Steel	24	6.40	153.00
Ea.	Blasting box	1	45.00	45.00
Ft.	Steel railing	1000	.30	300.00
Ea.	Mine car	1	50.00	50.00
Total----------				$1,806.00

Re: McMahan, Young & Pitman, (Ptnship)
c/o Dewey Young,
Rt.1. Bakersville, N.C.

(Lick Ridge Mica Prospect)
(Mitchell County, N.C.)

SUPPLEMENT SHEET NO.4.
-re-
FORM MF-103, (Revised)

Sect. 6-(d) Operating Equipment--(Monthly Rental Basis)

Unit	Item	No Nnits	Unit Cost	Estd Cost For The 48 Week Period.	
Ea.	105 Air Compressor	1	$ 150.00	$ 1,800.00	$ 1,800.00
Ea.	Jackhammer Drill	1	50.00	600.00	600.00
Ea.	Mining Jackleg	1	15.00	180.00	180.00
TOTALS		3	$ 215.00	$ 2,580.00	$ 2,580.00

(f) . Buildings & Installations---(Purchase Basis)

Unit	Item	No Unit	Unit Cost	Estd Cost For The 48 Week Period.	
Ea.	Toolhouse & Shop	1	$ 75.00	$ 75.00	$ 75.00
Ea.	Powder Magazine	1	25.00	25.00	25.00
Ea.	Exploder Magazine	1	15.00	15.00	15.00
TOTALS		3	$ 115.00	$115.00	$115.00

(g) . Miscellaneous Expenses.

Estimated cost of repairs & maintemance to equipment	$ 300.00
Federal Payroll Taxes @ 2½ % of $ 10,560.00	279.00
Employers Liability Insurance---(Estimated)	200.00
TOTALS	$ 779.00

Sect. 7-(a) . The applicants are prepared to meet their 25% of the total costs of the proposed mining project.

(b) Applicants will meet their 25% of the total estimated costs of project in mining equipment and labor furnished.

8- (a) CONTINGENCIES

60 Hours Bulldozer Hire @ $ 10.00 per Hr. $ 600.00
(Road work & Pushing Off Dump)

RECAPITULATION OF ESTIMATED COSTS OF PROJECT
------BY UNITS------

Sect. 6-(b)	Labor & Supervision	48 Week Period	$ 10,560.00
Sect. 6-(c)	Operating Mats & Supplies	" " "	1,806.60
Sect. 6-(d)	Operating Equipment	" " "	2,580.00
Sect. 6-(f)	Buildings-Installations	" " "	115.00
Sect. 6-(g)	Miscellaneous Expenses	" " "	779.00
Sect. 8-(a)	Contingencies	" " "	600.00
TOTAL ESTIMATED COSTS OF PROJECT		48 WEEK PERIOD	$ 16,440.60

~~GENERAL SUMMARY OF PROJECT EXPENSES AND~~
OF GOVERNMENT & OPERATORS PARTICIPATION

TOTAL ESTIMATED COSTS OF OROPOSED PROJECT, (48 WEEK PERIOD)	$ 16,440.60
OPERATORS SHARE OF ABOVE COSTS @ 25% OF ESTIMATED COSTS	4,110.15
GOVERNMENTS SHARE OF COSTS @ 75%---AMOUNT OF LOAN SOLICITED	12,330.45

Respectfully submitted,
McMahan, Young & Pitman
By: Dewey Young
partner

FORM MP-103. (revised)

Sect. 6-(d) Operating Equipment--(Monthly rental basis)

Unit	Item	No Units	Unit Cost	Lease Cost for the 48 week period.
1a.	105 cfm Compressor	1	@ 150.00	@ 1,800.00
1b.	Jackhammer Drill	1	50.00	600.00
1c.	Mining tools	1	15.00	180.00
TOTAL		3	215.00	2,580.00

(e) Buildings & Installations--(Purchase basis)

Unit	Item	No Units	Unit Cost	Lease Cost for the 48 week period.
2a.	Tool house & Shop	1	@ 75.00	@ 75.00
2b.	Power Receptacle	1	25.00	25.00
2c.	Exploder Magazine	1	15.00	15.00
TOTAL		3	115.00	115.00

(f) Miscellaneous Expenses.

Estimated cost of repairs & maintenance to equipment----	210.00
Federal Payroll Taxes @ 2½% of @ 10,500.00----------	275.00
Employers Liability Insurance---(Estimated)----------	220.00
TOTAL----------	705.00

Sect. 7-(a) The applicants are prepared to meet more 25% of the total costs of the proposed mining project.

(b) Applicants will meet more 25% of the total estimated cost of project in mining equipment and labor furnished.

8- (a) EXPLORATORY

60 Feet underlayer drift @ $ 10.00 per ft,---------- 600.00
(Lead work & working OKF Camp)

RECAPITULATION OF ESTIMATED COSTS OF PROJECT
---BY UNITS---

Sect. 6-(a)	Labor & Supervision --------	48 Week Period----------	10,560.00
Sect. 6-(b)	Operating Mate & Supplies---	" " "	1,100.00
Sect. 6-(d)	Operating Equipment--------	" " "	2,580.00
Sect. 6-(e)	Buildings-Installations----	" " "	115.00
Sect. 6-(f)	Miscellaneous Expenses-----	" " "	705.00
Sect. 8-(a)	Contingencies----------	" " "	600.00
TOTAL ESTIMATED COSTS OF PROJECT		48 Week Period----------	15,660.00

ESTIMATED TOTAL OF PROJECT INCLUDING COST
OF EQUIPMENT & OPERATING FACILITIES

TOTAL ESTIMATED COSTS OF PROJECT, (48 Week period)--	15,660.00
ESTIMATED SHARE OF APPLICANTS COSTS @ 25% of ESTIMATED COSTS------	4,410.15
ESTIMATED AMOUNT OF COSTS @ 75%---Loan to Bank Guarantee--	12,330.45

Respectfully submitted,
Hodgson, Young & Stokes
By: _____

NORTH CAROLINA
MITCHELL COUNTY

THIS AGREEMENT made the 29 day of JANUARY, 19 58, between WESTERN CAROLINA MICA CO a corporation organized pursuant to the laws of the State OF NORTH CAROLINA hereinafter sometimes designated as "Lessor," party of the first part; and,

BILL PITMAN, DEWEY YOUNG AND PAUL MCMAHAN

of MITCHELL COUNTY BAKERSVILLE, N.C. RT 1

hereinafter sometimes designated as "Lessee,"
(This designation shall include the respective parties, whether one or more, individual or corporate, and their respective successors in interest or assigns), party of the second part:

WITNESSETH

That the said Lessor, for and in consideration of the premises and of the sum of One Dollar paid said Lessor by Lessee, the receipt of which is hereby acknowledged, and of the undertakings and agreements hereinafter set forth and stated to be kept and performed by the Lessee, has leased and granted, and by these presents does lease and grant unto the Lessee the sole and exclusive right and privilege of digging, boring and otherwise prospecting for, and mining mica, including scrap, sheet and punch mica, and FELSPAR, and _____, and to remove the same from the following described tract or tracts of land situate in the State of NORTH CAROLINA, County of MITCHELL, and bounded and more particularly described as follows:

BEGINNING ON ASTAKE WHICH IS LOCATED SOUTH 50 FEET FROM THE LICK RIDGE MINE: THENCE SOUTH 250 FEET TO A STAKE: THENCE EAST 300 FEET TO A STAKE: THENCE NORTH 600 FEET TO A STAKE: THENCE WEST 600 FEET TO A STAKE: THENCE SOUTH 600 FEET TO A STAKE: THENCE EAST 300 FEET TO APOINT OF CLOSURE: THE SOUTH WEST CORNER OF THIS LEGAL DESCRIPTION BEING LOCATED 23' EAST 600 FEET FROM A STAKE IN THE OUTSIDE BONNDARY LINE.

(LICK RIDGE MINE)

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TO HAVE AND TO HOLD the said premises for the purposes aforesaid only, unto the said Lessee for and during the term of ~~XXXXX~~ FIVE year next ensuing from the 29 day of JANUARY, 19 58.

1. The Lessee covenants and agrees to pay to the Lessor on the 10th day of each month, the following royalties:
   (a) Scrap mica—a sum equal to 1/8 of the then prevailing market price.
   (b) Sheet and punch mica—a sum equal to 1/8 of the then prevailing market price.
   (c) Feldspar—a sum equal to 50¢ per ton of 2240 pounds.
   (d) All other minerals—a sum equal to _____ of the then prevailing market price,
   (E) NO MICA TO BE SOLD IN BLOCK FORM EXCEPT TO GSA

mined and removed from said premises pursuant to the provisions of this lease during the month immediately preceding said dates of payments, which payments shall be made to the Lessor at its office in Biltmore, North Carolina, or to its duly designated agent, for that purpose, ARTHUR BUCHANAN, JR AGENT, in complete settlement of any and all royalties due the Lessor for minerals mined and removed during the preceding month and each remittance of royalty payments herein specified shall be accompanied by an accurate statement or invoice and/or weight ticket, showing the amount, grade, qualification and weight of the mica and other minerals upon which said payments are based, together with such other information as may be incident to the mining, sale and shipment of said mica.

2. The Lessee agrees to pay to the Lessor a minimum royalty of $ NONE per year during the term hereof, without regard to the mica, feldspar or other minerals produced from said land; for any period less than a year the minimum royalty payable hereunder shall be ratably ascertained, providing that nothing in this paragraph contained shall release the Lessee from the obligation to prosecute mining operations with a reasonable degree of efficiency and to pay the royalties provided upon the mica and other minerals actually produced. The annual royalties received pursuant to paragraph 1, hereof, shall apply against said minimum royalties but said sums received under paragraph 1, hereof, shall not be considered as advance and cumulative royalties against said minimum royalties.

3. The Lessee covenants and agrees to keep adequate, accurate and complete records, books and accounts of all mica and other minerals mined within the boundaries of the premises above described, and the same shall be open to inspection of the Lessor at all reasonable times.

4. The said Lessee will classify, segregate and keep separate and separately marked, all mica and other minerals mined upon and taken from the premises hereinabove described and in no event will store, ship, mix or confuse the same with mica and other minerals mined or taken from any other land or premises.

5. The Lessor hereby grants to the Lessee the right to mine, prospect, search, dig, bore and excavate for mica and other minerals in as many places on the premises above described as the said Lessee may deem proper, and to extract and remove the same from said premises.

6. The Lessor hereby grants to the Lessee the same right that it has to construct ditches, drains, aerial tramways, tramways, railroads, truck roads, to and across said premises and any adjoining tracts of land belonging to the Lessor, but subject to any obligation of the Lessor in connection therewith which Lessee assumes.

7. The Lessor hereby grants to the Lessee such rights as it has in the premises above, to cut and use such timber located upon the said premises as may be necessary for the construction of buildings and/or for other usual purposes of such mining operations, upon paying for the merchantable timber the reasonable market stumpage value thereof at and upon the aforesaid land and premises, but subject to any obligation of the Lessor in connection therewith, which the Lessee assumes.

8. The Lessor hereby grants to the Lessee such rights as it has to use any stone or gravel located on the aforesaid premises for the purpose of constructing roads necessary and suitable for the full enjoyment of the mining rights hereby leased by the Lessee, as well as such right as it has to use or secure water on said premises and to dump waste material and water arising through the mining operations upon said premises, but subject to any obligation of the Lessor in connection therewith, which Lessee assumes.

9. The Lessor hereby grants to the Lessee the right to remove his mining machinery and equipment at any time within ninety (90) days after the termination or expiration of this lease, provided the time for the removal of said machinery and equipment may be enlarged only by written permission of the Lessor. No mining machinery and equipment belonging to the Lessee shall be removed from said premises until all of the indebtedness and obligations which may be owing to the Lessor by the Lessee shall have been paid in full.

10. The Lessor reserves unto the Lessor the right to use so much of the premises as shall not be required by the Lessee for the mining operations of the Lessee.

11. The Lessee agrees to pay all taxes which may be levied solely upon the mining operations conducted upon the said premises by the Lessee.

12. The Lessee shall have the right to terminate this lease at any time during the term aforesaid upon giving written notice to Lessor of such intention, at least sixty (60) days prior to the date of termination, and upon payment of all sums due Lessor by Lessee to said date of termination. Said notice shall be sent by Registered Mail to last known address of Lessor.

13. The Lessee agrees to conduct his mining operations in a businesslike and workmanlike manner with due regard to Lessor's rights in the mines, minerals and mineral deposits, and to that end the Lessee agrees to keep and maintain the mines and all parts thereof in good and sufficient repair and to work and operate said mines in a good and skillful manner not removing the rich parts of the mines at the expense of the other part thereof, and as the work progresses to keep the mines as clean as reasonably practicable, and all parts thereof securely and properly timbered and supported; and in case of open work to properly slope the walls and banks so as to prevent the same from slipping or falling in; that no waste, rubbish or refuse will be dumped, thrown or placed in any mine, mine tunnel, cut shaft or other improper place, and no waste will be permitted upon said premises nor avoidable damage done to mine thereunder. Lessee further agrees not to interfere with, dislocate, remove, damage or misplace any surface monuments, marker stake or other evidence as presently set defining the boundaries of said premises.

14. The Lessor reserves the right to terminate and cancel this lease in the event of a default on the part of the Lessee in complying with any of the terms and conditions of this lease, provided said default shall continue for a period of sixty days after the Lessor has forwarded written notice thereof to the Lessee. Said notice shall be sent by registered mail to the last known address of the Lessee.

15. The Lessee shall have the right to renew this lease for an additional period of FIVE YEARS, upon the terms and conditions hereinbefore set forth, provided that 30 days prior to the expiration of this lease the Lessee shall forward to the Lessor written notice thereof in the manner hereinbefore provided for sending notices to Lessee.

16. The Lessee will within a period of 60 days from the signing of this lease begin active work in prosecuting the mining operations for scrap mica, sheet and punch mica, feldspar and other minerals and will continue the prosecution of said mining operations in good faith and with due diligence and activity in order to produce the maximum output from the mines located on the above described premises. In the event Lessee fails to operate actively and continuously any mine or mines within said boundary for the production of scrap mica, sheet and punch mica, feldspar and other minerals for a period of 30 days, except for causes absolutely beyond Lessee's control, then the Lessor, at its option, may declare this lease void and of no further force and effect.

17. It is agreed that during the continuation this lease, or any extension thereof, the Lessor or its assigns shall have the refusal of and the right and option to purchase all mica mined and produced by the Lessee from the land and premises hereinabove described. Such purchase to be at the prevailing market price.

18. It is agreed that the acceptance of royalty by the Lessor under the provisions of this lease is to to be a credit in behalf of the Lessee but is not to be taken or considered as a waiver for any damages Lessor may be entitled to recover from Lessee for any breach or breaches that Lessee may make in any duty or covenant expressed or reasonably implied in this lease or as an estoppel against Lessor in this respect. Nothing contained in this lease is intended to, nor shall it abridge or in any way modify the Lessor's right or rights in or to any action for the non-performance of the covenants of this lease.

19. It is agreed that this lease shall not be transferred, assigned or sub-let either in whole or in part by the Lessee without the prior written consent of the Lessor and no right or privilege of the Lessee hereunder can be transferred, assigned or sub-let by Lessee without such written consent of Lessor first had and obtained.

20. Lessee agrees that the Lessor shall in no sense or in any way be held liable for any operations under this lease, and in no event and under no circumstances shall Lessor be held liable for any debt, tort or other liability of the Lessee, his agents, workmen or employees and Lessee further agrees to at all times indemnify and save harmless said Lessor of any claim and demand of whatsoever kind and nature predicated in any manner on such operations under this lease and Lessee further agrees to carry adequate insurance of all kinds to so indemnify said Lessor.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly and properly executed as of the day and year first above written.

WESTERN CAROLINA MICA CO

By: Arthur Buchanan Jr Agent

~~President~~ AGENT

ATTEST: R. P. Greene, OSC

~~Secretary~~

Bill Pitman (SEAL)

Dewey Young (SEAL)

Paul McMahan (SEAL)

NORTH CAROLINA
MITCHELL COUNTY

I, a Notary Public of said State and County, certify that ARTHUR BUCHANAN, JR AGENT personally came before me this day and acknowledged that he is AGENT ~~Secretary~~ of WESTERN CAROLINA MICA CO a corporation, and that, by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its AGENT ~~President~~, ~~sealed with its corporate seal and attested by himself as its Secretary~~.

WITNESS my hand and Notarial Seal this the 31 day of January, 1958.

R. P. Greene, OSC ~~NOTARY PUBLIC~~

My commission expires:

NORTH CAROLINA
MITCHELL COUNTY

I, R. P. Greene, OSC, ~~a Notary Public~~ of said State and County, do hereby certify that BILL PITMAN, DEWEY YOUNG, AND PAUL MCMAHAN personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and Notarial Seal, this 31 day of January, 1958.

R. P. Greene, OSC ~~NOTARY PUBLIC~~

My commission expires:

STATE OF NORTH CAROLINA
COUNTY OF MITCHELL

WESTERN CAROLINA MICA CO

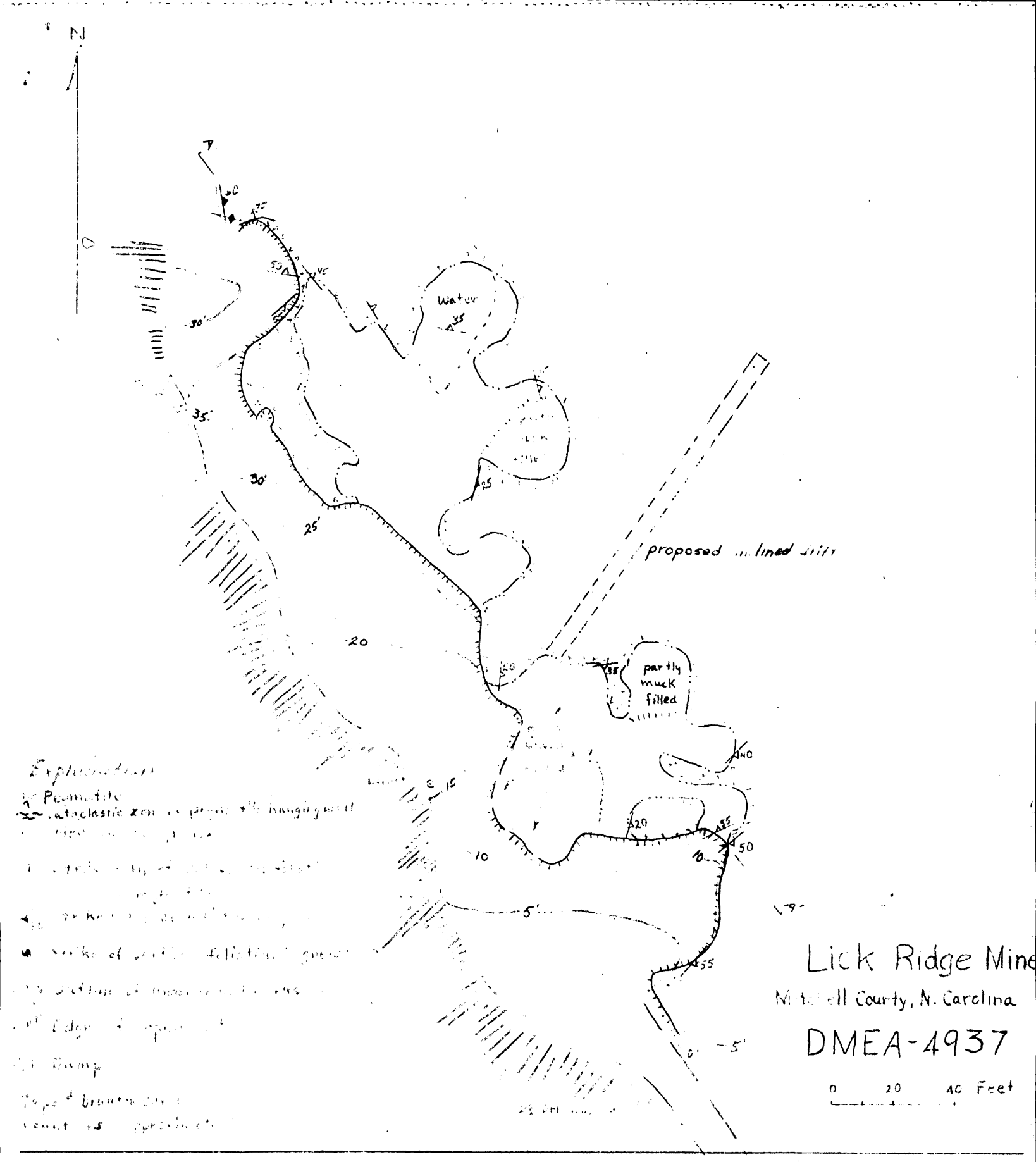
To

BILL PITMAN, DEWEY YOUNG AND
PAUL McMAHAN

LEASE

Filed for registration on the 1 day of February, 1958, at 9:15 o'clock A M., and registered in the Office of The Register of Deeds for Mitchell County, North Carolina in Book 86 Page 469-.

Bill Masters
Register of Deeds for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partly muck filled
Explanation
Pegmatite
Lick Ridge Mine
Mitchell County, N. Carolina
DMEA-4937
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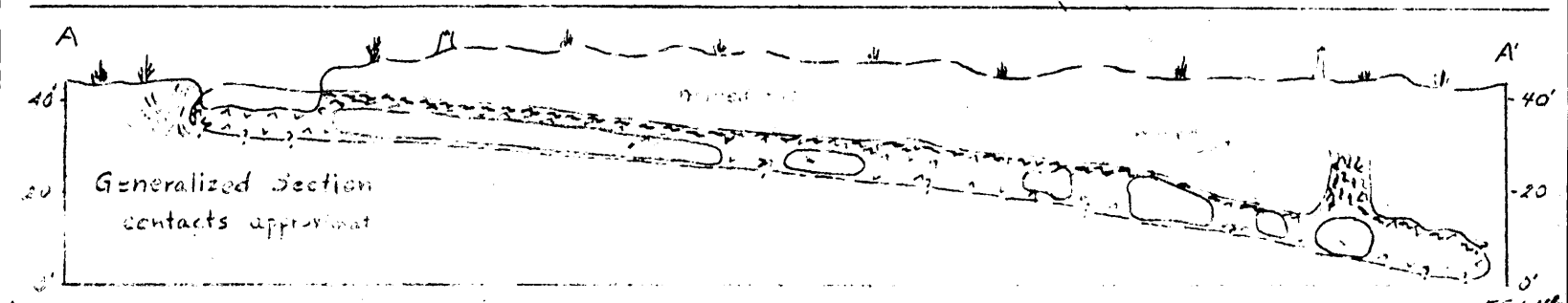
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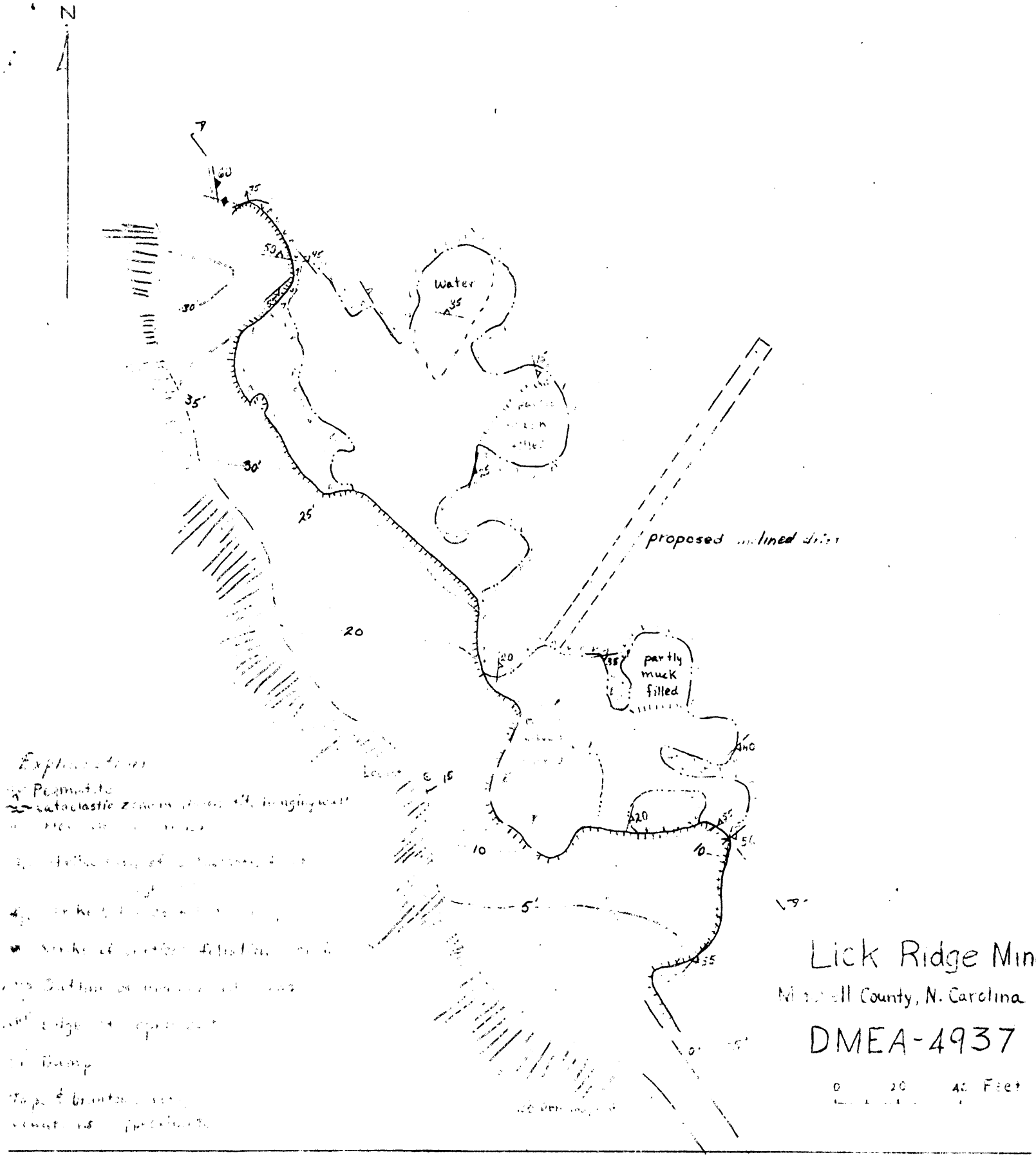
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Explanation
Pegmatite
Lick Ridge Mine
Mitchell County, N. Carolina
DMEA-4937
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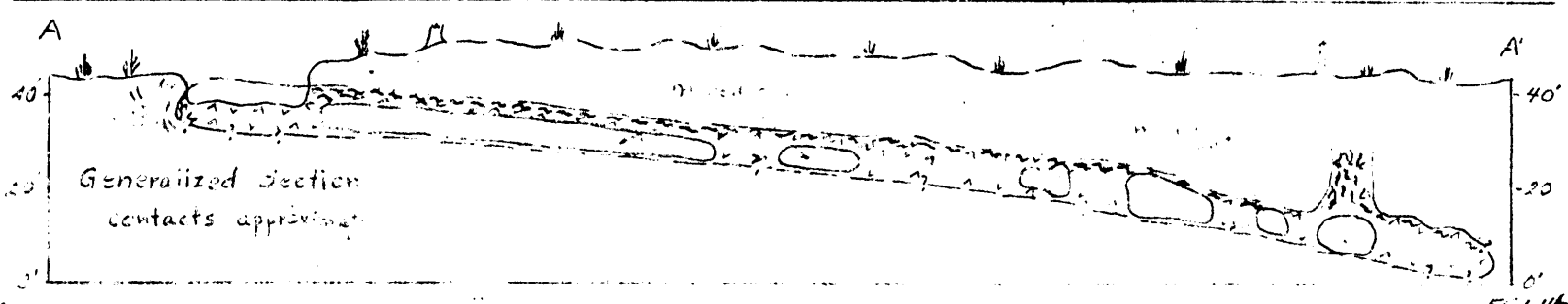
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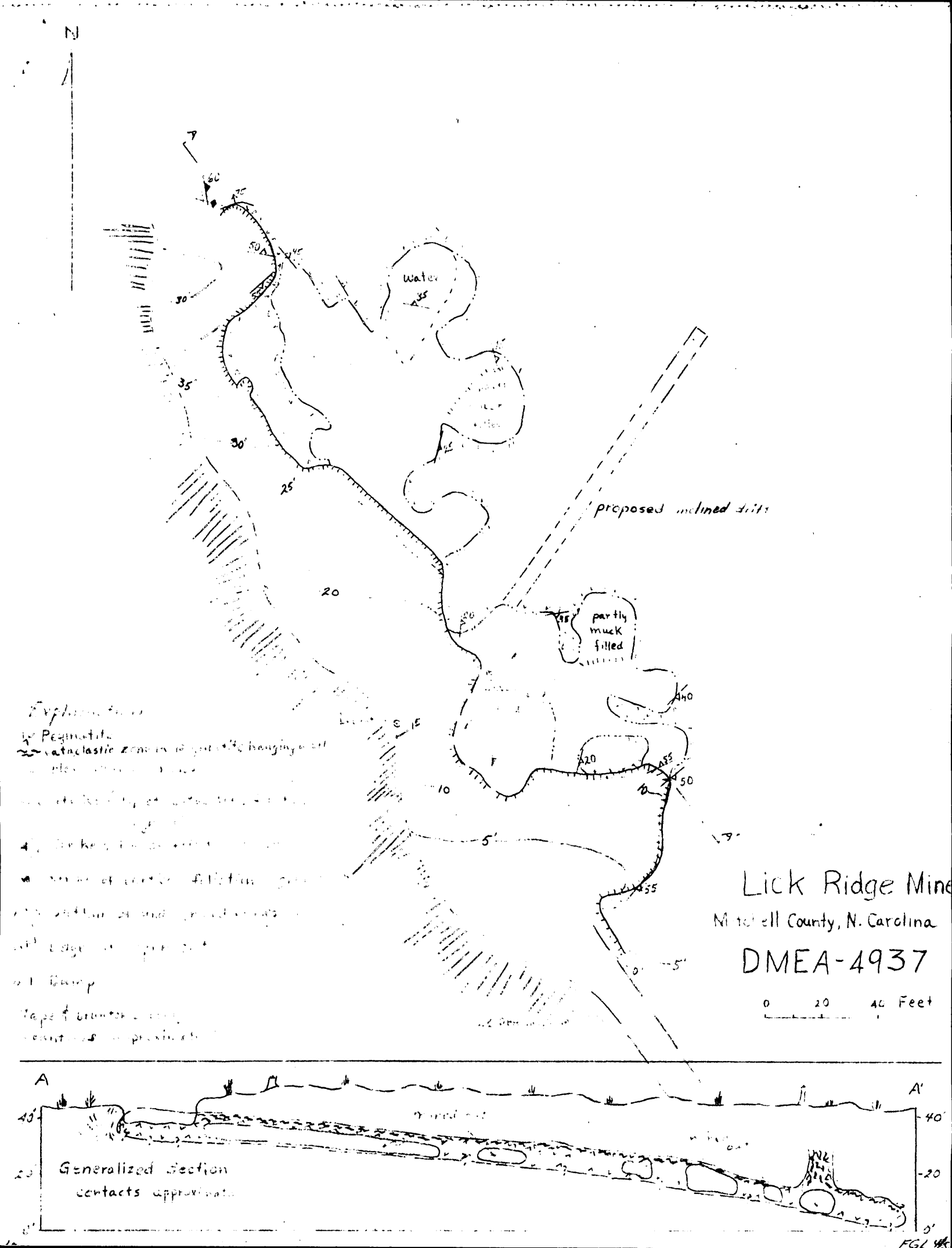
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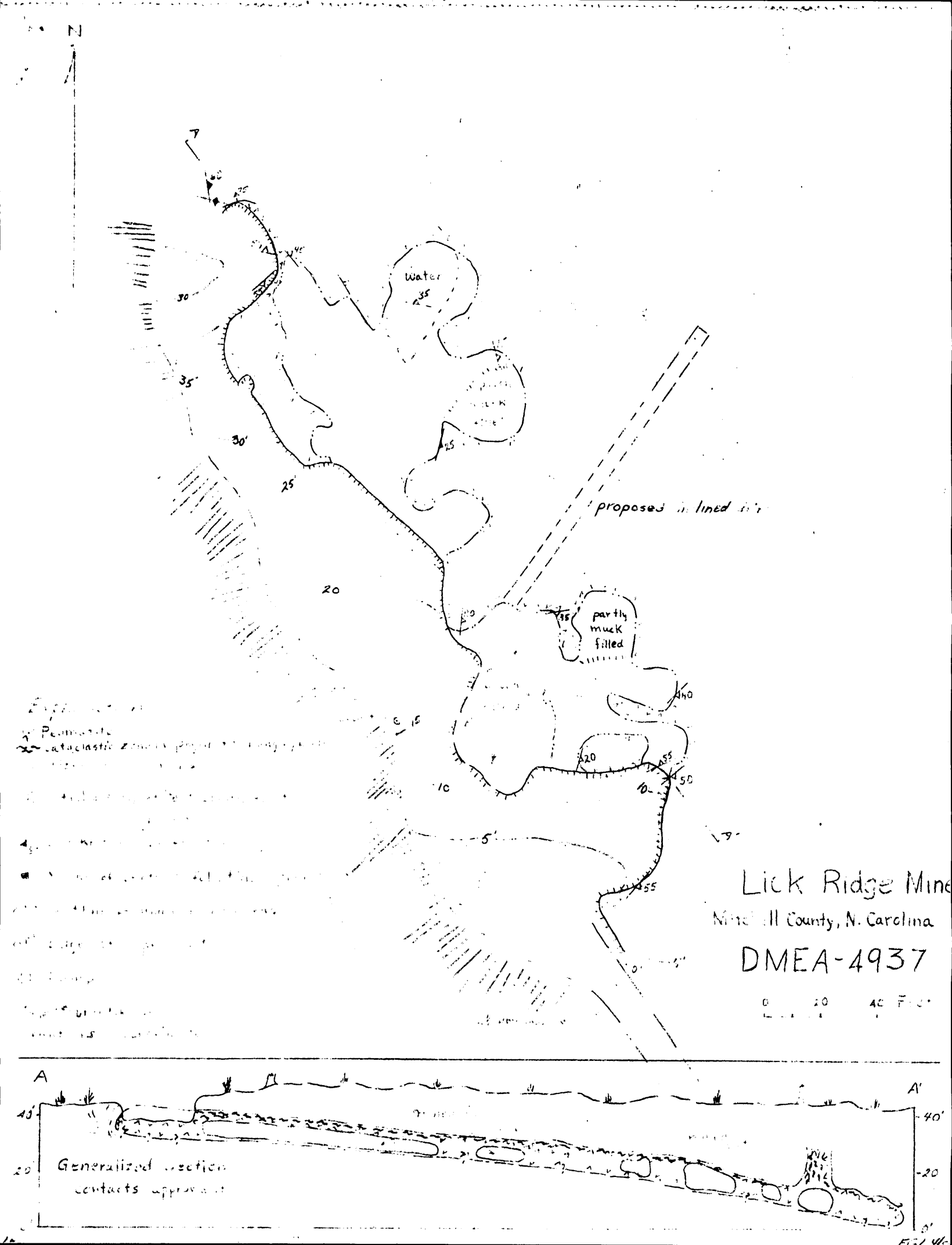
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Mitchell County, N. Carolina
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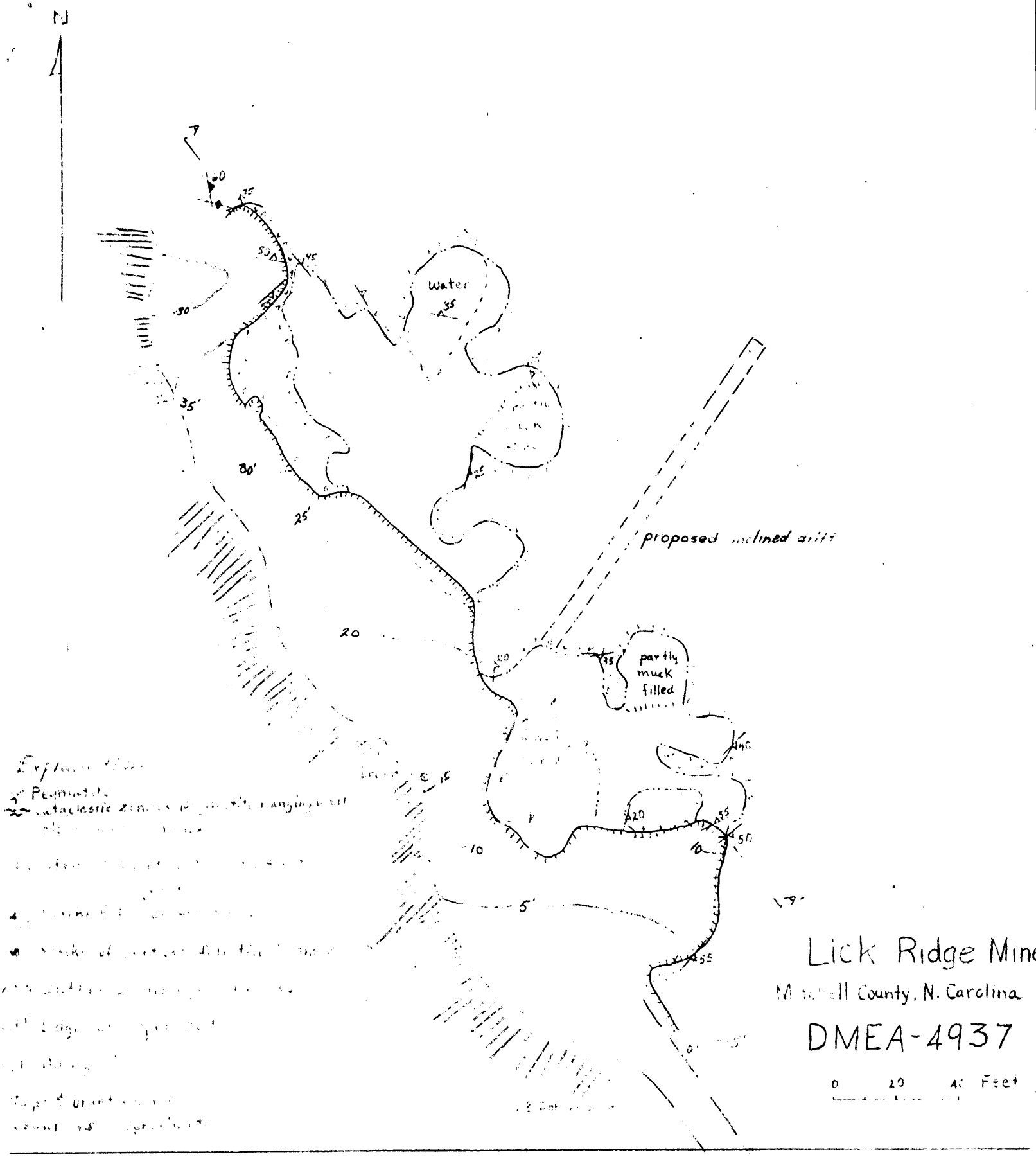
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Mitchell County, N. Carolina
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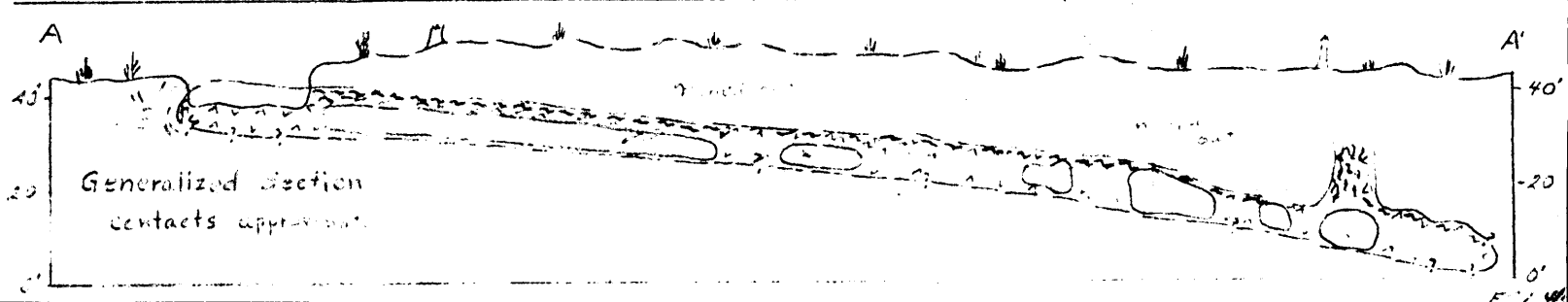
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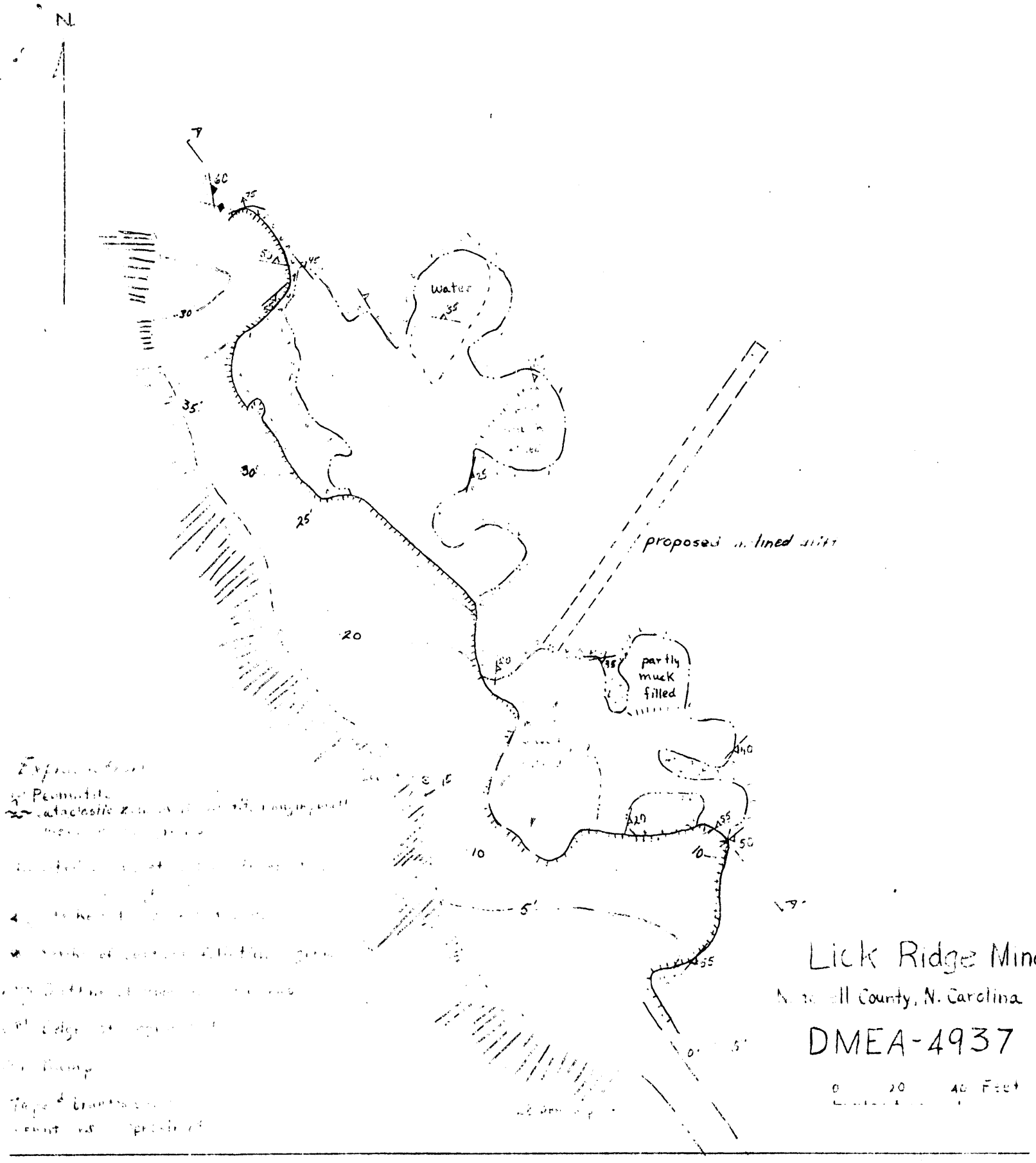
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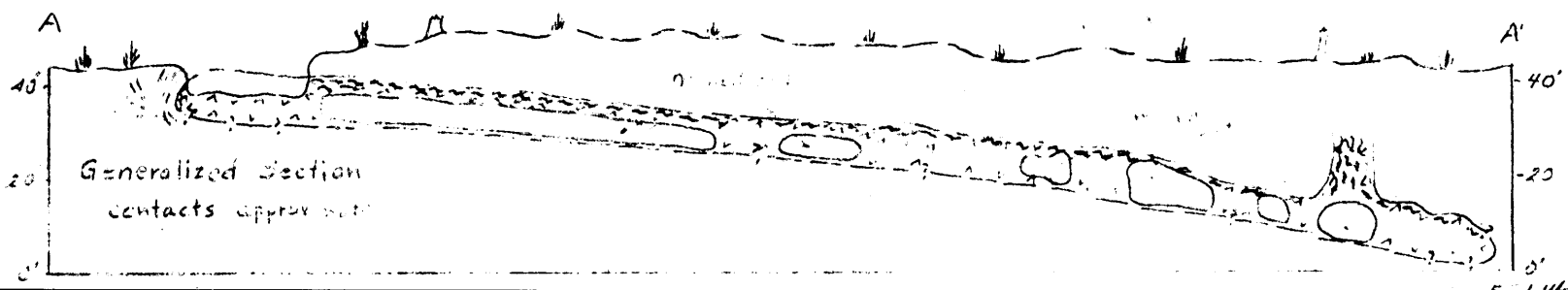
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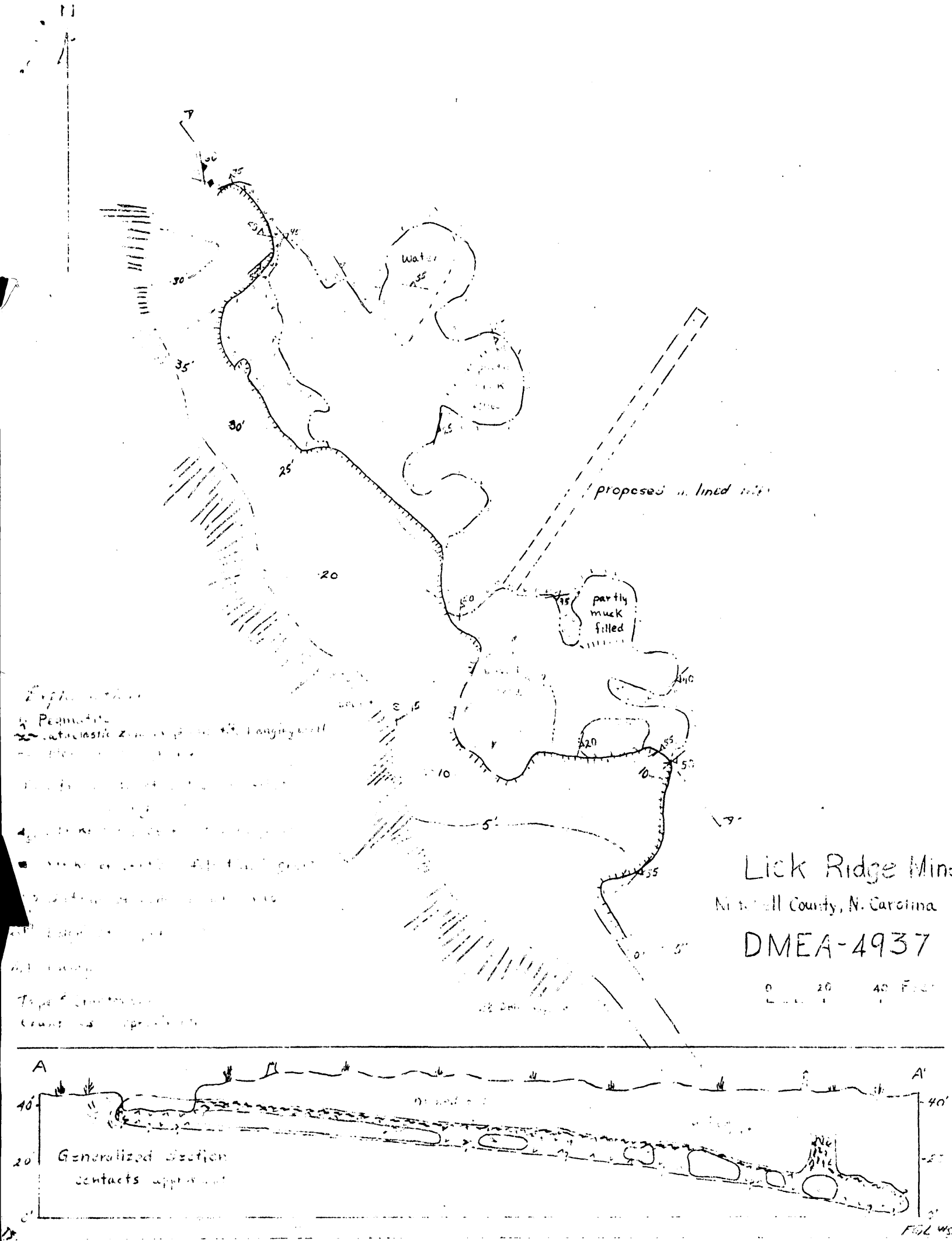
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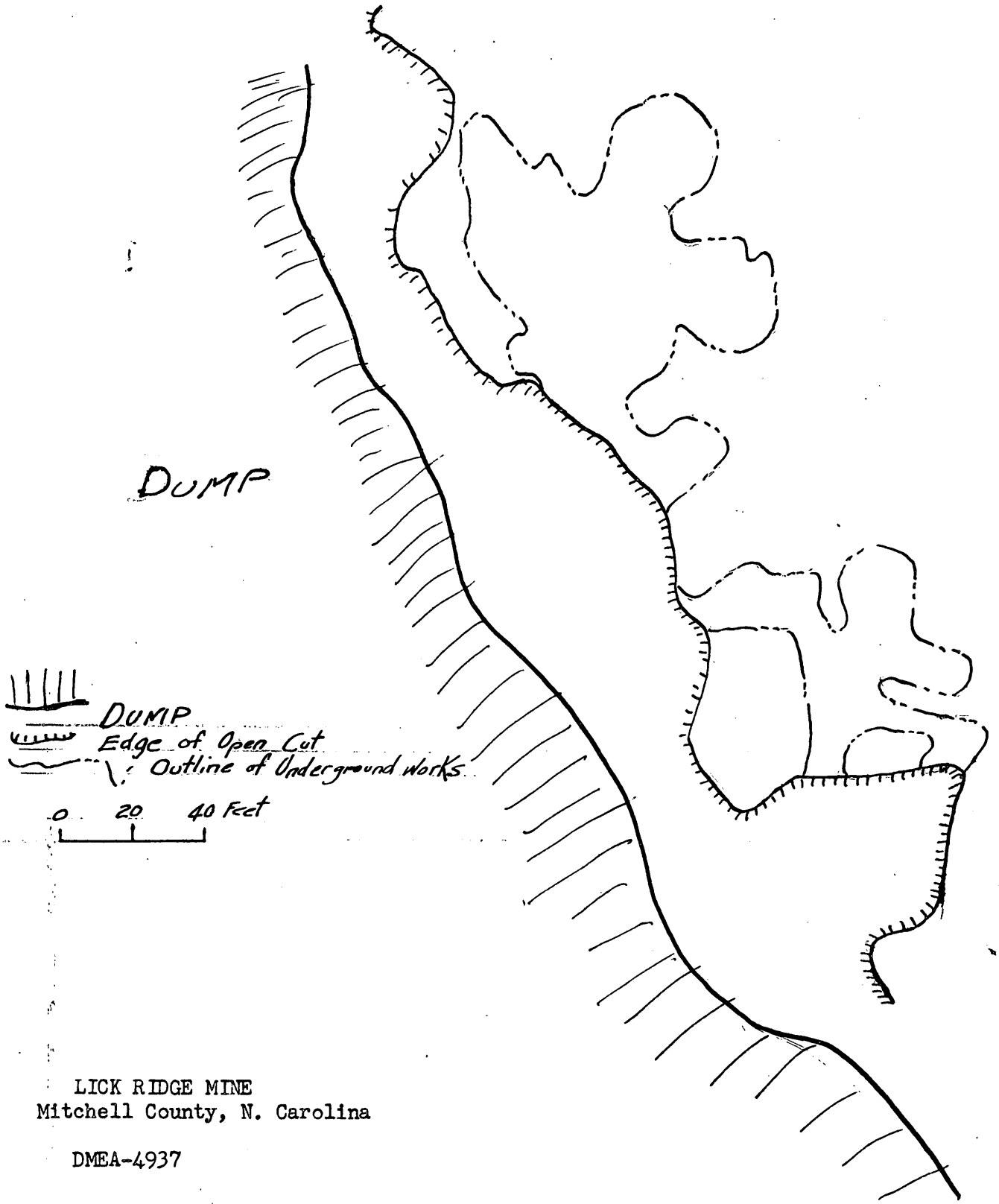
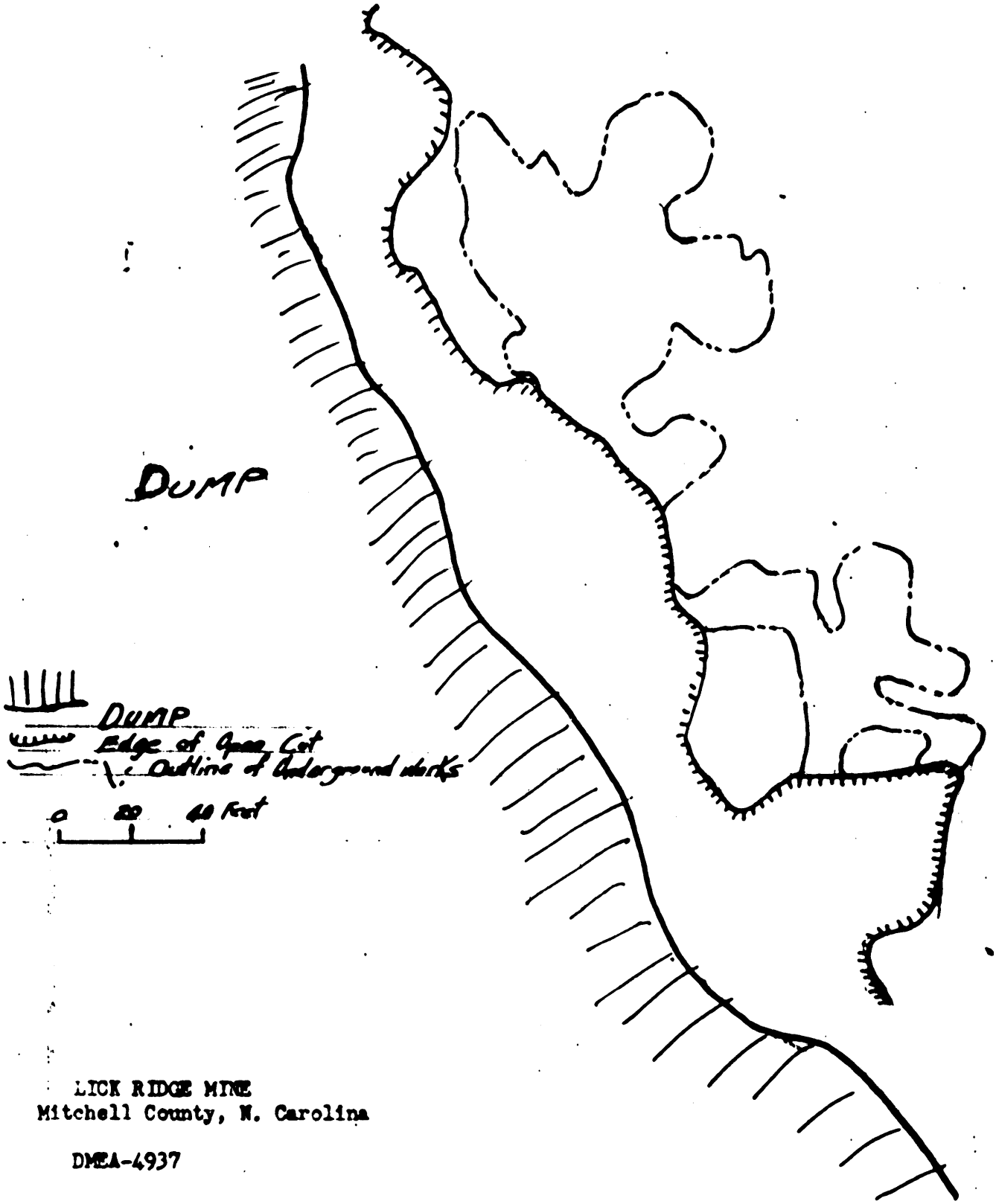


LICK RIDGE MINE
Mitchell County, N. Carolina

DMEA-4937



LICK RIDGE MINE
Mitchell County, N. Carolina

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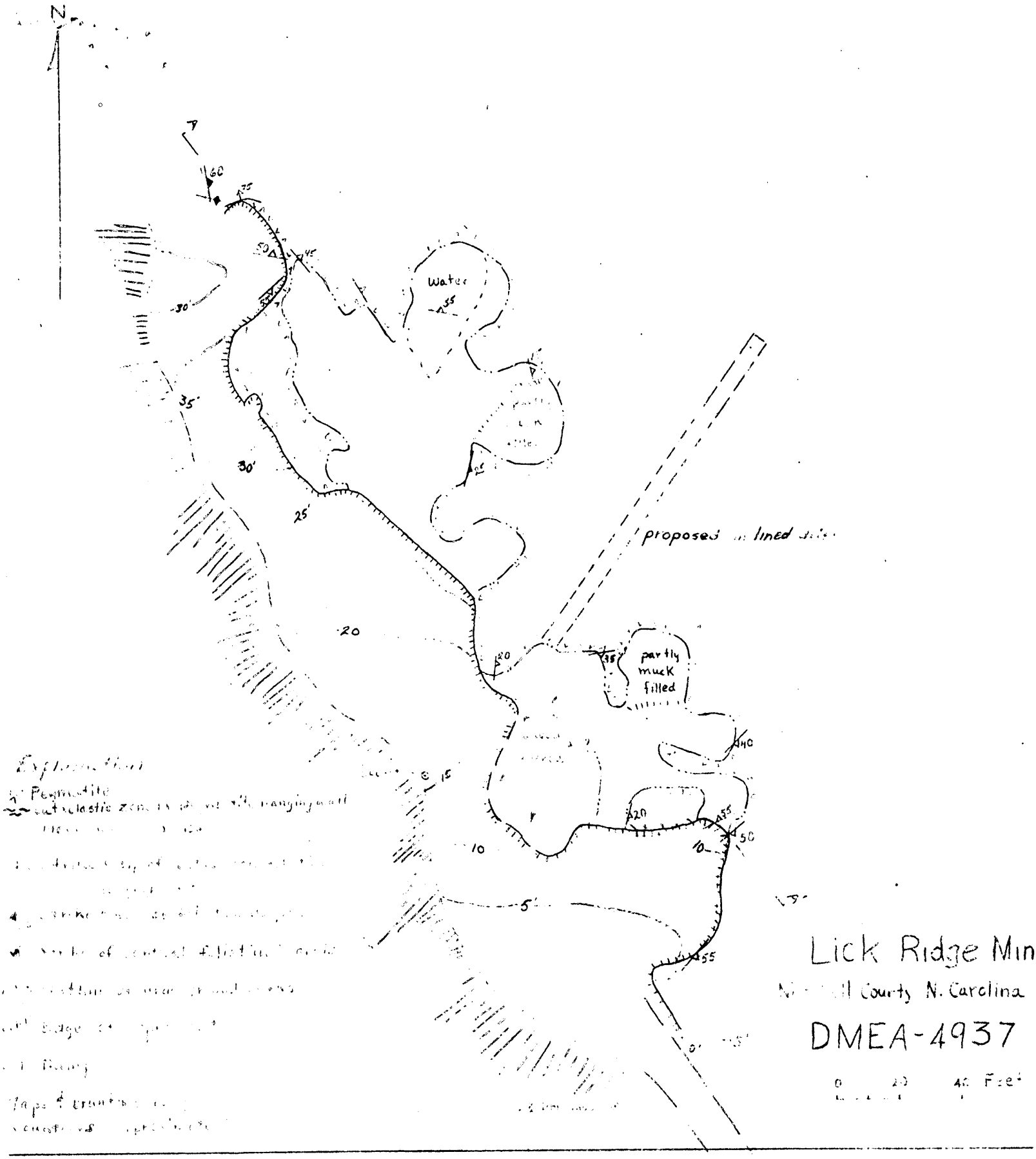
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Lick Ridge Mine
County N. Carolina
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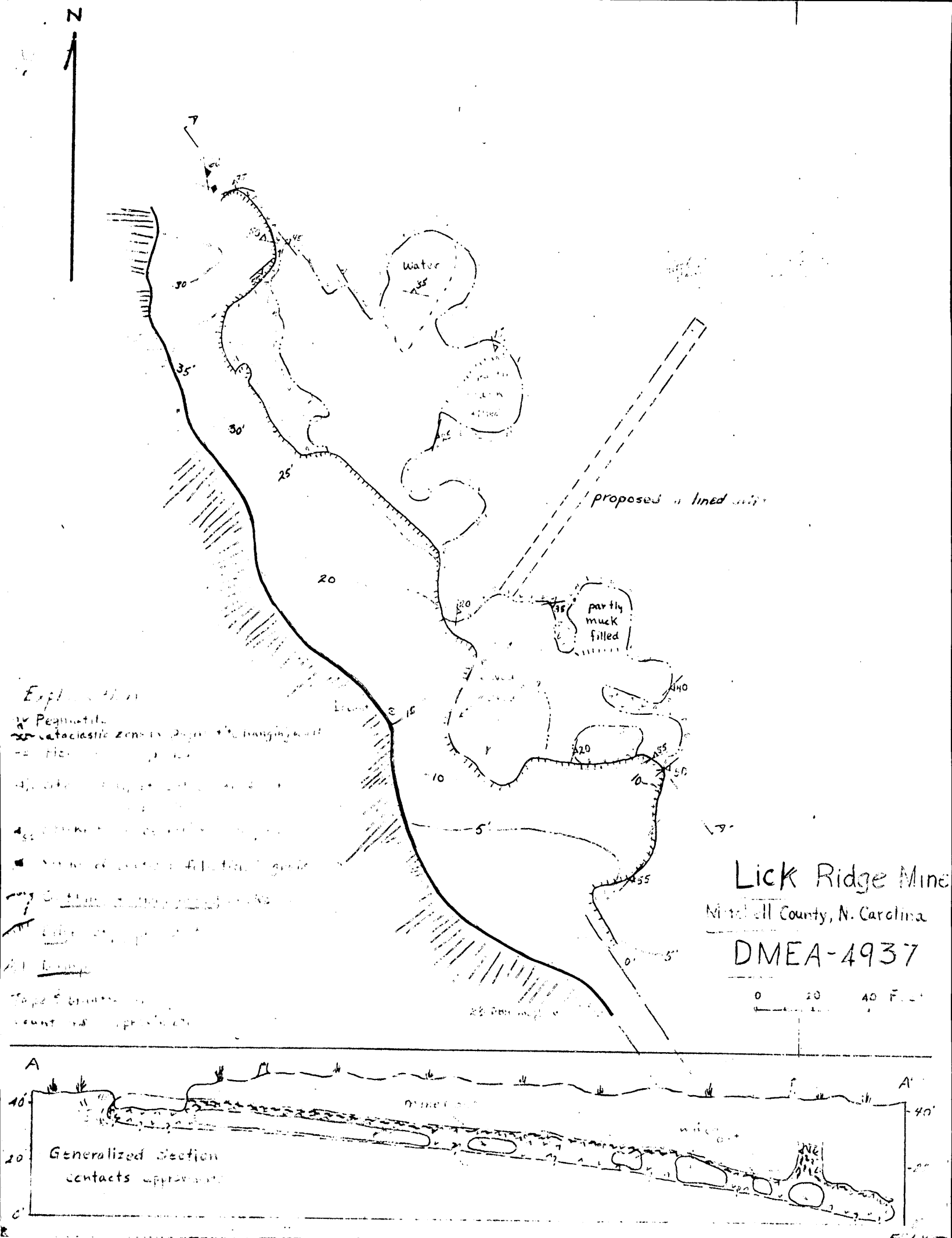
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Mitchell County, N. Carolina
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Date	Surname	Code
4-7	Anderson	600

Form 7
-58

600

Project Summary Report

By: Walter C. Anderson April 7, 1959

1. Docket No. DMEA-4937-Mica
Contract No. Idm-E1205
Lick Ridge Mine
Mitchell County, North Carolina

Application: Form MF-103 (February, 1957) received February 6, 1958.
Work proposed by Applicants:
300 feet of drifts and 200 feet of crosscuts at an estimated cost of $16,440.60.

Operators: Paul McMahan, Dewey Young, and Bill Pitman, Partners
c/o Dewey Young
Route 1
Bakersville, North Carolina

Operators' property rights:
Five year mining lease on Western Carolina Mica Company property, consisting of 8.28 acres, dated January 29, 1958. Consent to Lien and Subordination Agreement dated January 24, 1958.

2. Contract: Form 200A (April, 1956) dated June 13, 1958

Work authorized:

Repair of access road	$150.00
Construction: Toolhouse, powder and exploder magazine	114.00
100 feet of inclined drift @ $35.00/ft.	3,500.00
Estimated total cost of project	$3,764.00
Government participation @ 75%	$2,823.00

Amendments: None.

Work completed: Same as authorized.

Work started June 27, 1958, and was completed on August 29, 1958.
Field Team final report received November 28, 1958.
Operators' final report received September 15, 1958.
No equipment purchased under contract.
The Field Team reports a value of production up to date of their report as $1,274.14 for which the Government received a royalty of $63.70. Subsequently $381.00 worth of scrap mica was sold for which royalty of $19.05 was paid.

43683

3. Audit: Report of Review issued September 19, 1958.

Total accepted cost	$3,764.00
Government participation	2,823.00

4. Certification of discovery: None issued.

5. Comments:

How conducted: All of the work in which the Government participated was acceptable.
Operation: Work done quickly and efficiently.
Engineering: Operators' reports were above average.
Geological premise: The suggested concentration of mica in shallow rolls did not materialize.
Geological criteria upon which work was based:

1. Pegmatite - Low dipping sill, about 280 feet long by 100 feet wide. Roughly concordant with foliation of the garnetiferous hornblende gneiss country rock. Composed of medium-to coarse-grained plagioclase, quartz, muscovite, biotite, and minor perthite.
2. Mica - Strategic quality.
3. Past production.

Criteria developed during project:

1. Pegmatite - Sill, 280 feet long by 100 feet by 10 to 15 feet thick. Roughly concordant with the foliation of the garnetiferous hornblende gneiss country rock. Composed of coarse-grained plagioclase, quartz, muscovite, and biotite.
2. Mica - Smoky brown and non-ruby. Books up to 10 by 12 inches. Outsides of books are deformed and coated with ground mica but pattern can be trimmed from the centers.

Future possibilities: Pegmatite has not been fully explored. Because of its large size additional exploration seems warranted.

Recommendations: The Division of Nonmetallic Minerals concurs in the Field Team's recommendation that no certification be made.

Walter C. Anderson
Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:gad 4/7/59
Copy to: Dir. R. File

☑ Audited 9/19/58 WORK ANALYSIS SHEET - DMEA PROJECT ☐ Actual Cost

☐ Certified Analysis as of 10-13-58 ☑ Agreed Unit Costs

Incl. Voucher for Aug. 58

Name McMahan, Young & Pitman Docket No. 4937

State No. Car. Commodity Mica Idm-E No. 1205

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	100 Ft.	$3,500.00	100	3500.00	3500.00
Raising					
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails		150.00		150.00	150.00
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.		114.00		114.00	114.00
Other (Specify)					
Totals		$3,764.00		3,764.00	3,764.00

Prepared by Walter C. Anderson

71626

Frank Johnson
OME

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

March 30, 1999

Memorandum

To: Finance Officer, OME - Region V - Norris, Tenn.

From: Executive Officer, OME - Region V

Subject: Royalty Payment - DMEA-4937, Idm-E1205-mica
Lick Ridge Mica Prospect, Mitchell County, N.C.

There are attached settlement or sales slips for scrap mica sold from the subject mine in the amount of $381.00 and a check for royalty in the amount of $19.05.

Robert A. Laurence

z

4/1/42 C Hack 220 600

DIAMOND MICA COMPANY
Spruce Pine, N. C.

Date 1-2-59

From Bill Ottman

Mine

Gross 5580

Tare 3580

Net 2000 Price 31.00

Amt. 31.00 Ck. No. 15824

Date _____ 195__

M _____

No. _____

Reg. No. ____ Clerk ____ ACCOUNT FORWARDED

1
2 Bought from
3
4 Bill Ottman
5 3rd-Jack Ridge
6
7 Nov 8 250.00
8
9 Paid
10 Joe J Snyder
11
12
13
14 14
15

Your account stated to date. If error is found return at once.

Made In U. S. A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

March 9, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 11 1959

DATE	INITIALS	
3/11	C	
3/12	Bmk	220 600

Mr. Paul McMahan
Route # 1
Bakersville, N.C.

Re: Docket No. DMEA-4937 - mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract Idm-E1205

Dear Mr. McMahan:

Please refer to Mr. Laurence's letter of November 28, 1958, in which he called your attention to Article 6(b)(1) of the contract. Royalty on all production from the Lick Ridge Mine, until March 15, 1959 is due the Government regardless of possible certification of discovery, unless you are notified otherwise before that date.

As of this date we have received only one royalty payment amounting to $63.70 from you for three sales made in September 1958. Two of these sales were made to the Government Depot and the third to Joe L. Snyder.

Please send us your check for 5% of the value together with copies of sales tickets or other evidence of sales value on any sales made other than those stated above. This should include any sales of punch or scrap mica.

We would appreciate your immediate attention to this matter so that we may close our books on this contract.

Sincerely yours,

V. J. Lynch, Acting
Executive Officer, OME-Region V

WAB/sm
cc
Opr. Com.-2
Lynch
Files

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/4	Anderson	600
3/4	Hoch	600
3-4	Chamber	800
3/6	[illegible]	130
4	Johnson	110
3/9	C	220
		600

600

MAR 6 1959

Memorandum

To: Mr. Robert A. Laurence, Executive Officer, ONE Field Team, Region V

From: George C. Selfridge, Chairman, Operating Committee

Subject: Royalty payments - Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1205

Reference is made to your letter of November 28, 1958, to the subject Operators regarding the receipt of $63.70 in royalties on sales of 82.13 pounds of trimmed mica.

Besides the probable sale of a considerable amount of punch and scrap for which no royalty has been paid since the completion of the contract, there has been produced about 1.5 tons of mica according to the Field Team's final report.

Before we write the closing letter, which is due on March 15, 1959, we will appreciate receiving a report on the value and disposition of both the punch and scrap, and the 1.5 tons of mica produced since the contract period.

George C. Selfridge
Chairman, Operating Committee (GCB)

Approved:

H. G. Iverson (GCB)
Member, Bureau of Mines

N. E. Nelson (GCB)
Member, Geological Survey

WCAnderson:gad 3/4/59
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard, USGS
Mr. Dietrich, USBM

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 30 1959

DATE	INITIALS	CODE
1/30	C	220
1/22	[illegible]	600

January 28, 1959

Memorandum

To: Operating Committee, OME - Washington, D. C.

From: Executive Officer, OME - Region V - Knoxville, Tenn.

Subject: DMEA-4937, Idm-E1205(mica) McMahan, Young and Pitman, Bakersville, N.C.
Lick Ridge Prospect, Mitchell County, N.C.

Reference is made to your letter of January 16.

The address of Mrs. Margaret S. Penland is Newland, North Carolina.

The Operator tells me that the Guy Heirs and the Western Carolina Mica Company each own one-half interest in the mineral rights.

Robert A. Laurence

Robert A. Laurence

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 21 1959

DATE	INITIALS	CODE
1/21	C	220
		600

January 19, 1959

Memorandum

To: Operating Committee, OME - Washington, D. C.

From: Executive Officer, OME - Region V - Knoxville, Tenn.

Subject: DMEA-4937, Idm-E1205 (mica) McMahan, Young and Pitman, Bakersville, N.C.
Lick Ridge prospect, Mitchell County, N.C.

Reference is made to your letter of January 16.

The address of Mr. J. Fuller Brown is P.O. Box 318, Newport News, Virginia.

We do not have the address of Mrs. Margaret S. Penland, nor have we been able to determine, from our records, what connection, if any, the Guy heirs have with the property. Accordingly, I am writing to the Operator for this information.

Robert A. Laurence

Robert A. Laurence

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/16	Anderson	600
1/16	[illegible]	130
"	[illegible]	110
1/19	C	220
		600

JAN 16 1959 600

Mr. Robert A. Laurence
Executive Officer, OME
Field Team, Region V
Room 2-B, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract No. Id--E1205

Dear Mr. Laurence:

Please furnish this office with the addresses of the following who signed the Consent to Lien and Subordination Agreement attached to the subject contract:

Mr. J. Fuller Brown, president of the Western Carolina Mica Company
Mrs. Margaret S. Penland, Attorney in Fact for C. C. Guy legal heirs.

Also please advise what connection the C. C. Guy legal heirs have with the property.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

C. T. BAROCH

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

WCAnderson:gad 1/14/59
Rewritten
WCAnderson:gad 1/16/59
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard
Mr. Dietrich
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/14	Anderson	600
1/15	Houk	600
		130
		110
		220

600

Mr. Robert A. Laurence
Executive Officer, OME
Field Team, Region V
Room 2-B, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina
Contract No. Idm-E1205

Dear Mr. Laurence:

The Consent to Lien and Subordination Agreement attached to the subject contract was signed by Mr. J. Fuller Brown, President of the Western Carolina Mica Company.

We are lacking the address of the above lessor and request that you furnish it at your earliest convenience.

Sincerely yours,

Chairman, Operating Committee

Approved:

Member, Bureau of Mines

Member, Geological Survey

WCAnderson:gad 1/14/59
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard
Mr. Dietrich
Mr. Houk

8623

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 5 1958

DATE	INITIALS	CODE
12/5	C	220
	Hwd	600

December 4, 1958

Memorandum

To: Nonmetallic Minerals Division
Office of Minerals Exploration

From: Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4937 (mica)

Applicant: McMahan, Young and Pitman

Name and Location of Property: Lick Ridge Mica Prospect
Mitchell County, N. C.

Contract Number: Idm-E 1205

Date of Field Team Final Report: 11/26/58

Date Rec'd. by Branch of Ceramic and Fertilizer Materials: 12/3/58

Field Team Recommendation: Recommend that no certification be issued.

Comments:

1. Contract work consisted of driving 100 feet of inclined drift.

2. About 100 pounds of non-ruby mica was recovered during contract work and no reserves were outlined.

3. About 1½ tons of mica was recovered during additional work after the contract by the operators.

4. Expenditures -

Total approved	$3,764.00
Total cost of project	3,764.00
Gov't. share of cost	2,823.00
Value of production	1,274.14
Royalty paid	63.70

Recommendation:

I concur with the recommendation of the field team that no certification be issued. However, additional exploration seems warranted because of findings on non-contract work.

Donald R. Irving

Donald R. Irving

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 1 1958

DATE	INITIALS	CODE
12/4	C	220
/1		600

November 28, 1958

Mr. Paul McMahan
Route # 1
Bakersville, N.C.

Re: DMEA-4937, Idm-21205-mica
Lick Ridge Mine
Mitchell County, N.C.

Dear Mr. McMahan:

We have received royalty payments totalling $63.70 on sales of 82.13 pounds of trimmed mica from the Lick Ridge mine to the Government depot. It is possible that a considerable amount of punch and scrap was also sold but we have received no royalty on these. Please send your check for 5% of the value of such mica, with copies of sales tickets or other evidence of sale value.

Please note also, that according to Article 6(b)(1) of the contract, royalty on all production from the Lick Ridge mine, regardless of possible certification of discovery, is due until March 1959, unless you are notified otherwise before that date.

Sincerely yours,

Robert A. Lawrence
Executive Officer, OME
Field Team, Region V

RAL/sm
cc
Opr. Com--2
Bill Pitman
Lynch
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 28 1958

DATE	INITIALS	CODE
11-28	C	220
11/28	ea	130
"		110
12/5	JB	130
12/5	C	220
		600

November 26, 1958

Memorandum

To: Operating Committee, OME - Washington

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

Subject: Field Team Final Report - DMEA-4937, Idm-E1205-mica.
McMahan, Young and Pitman, Operators.
Lick Ridge Prospect, Mitchell County, N.C.

Transmitted are the original and two copies of the subject final report.

The Field Team concurs with the Field Examiners in their recommendation that no certification be issued.

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

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

Reviewed by
OME OPERATING COMMITTEE
12-5-58
(date)

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 28 1958

DATE	INITIALS	CODE
12/5	2/B	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR

OFFICE OF MINERALS EXPLORATION

FINAL REPORT

FIELD TEAM REGION V

Field Team Final Rpt.

DMEA-4937, Idm-E1205(mica) LICK RIDGE
Mitchell County, N. C.

BY

Frank G. Lesure, Geologist
Geological Survey (OME)
and

Stanley A. Feitler, Mining Engineer
Bureau of Mines (OME)

November 26, 1958

Reviewed by
OME OPERATING COMMITTEE
12-5-58
(date)

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 28 1958
DATE

DMEA EXPLORATION PROJECT

FINAL REPORT

DMEA-4937, Idm-E1205, LICK RIDGE PROSPECT
Mitchell County, North Carolina
(Mica)

Operators: McMahan, Young and Pitman, c/o Dewey Young, Route 1, Bakersville, North Carolina

SUMMARY

The Lick Ridge pegmatite was explored by driving 100 feet of inclined drift along the footwall near the center of the body. The pegmatite is a low-dipping sill 280 feet long and more than 100 feet wide. It ranges from 10 to 15 feet in thickness. It is composed of coarse-grained plagioclase, quartz, biotite, perthite and muscovite. About 100 pounds of non-ruby muscovite was recovered near the portal of the contract drift. No mica reserves were outlined and we recommend that no certification be made. Additional work done by the Operators after the contract in another part of the pegmatite discovered about 1.5 tons of mica indicating that the pegmatite probably warrants further exploration.

INTRODUCTION

Location: The Lick Ridge prospect is on the south slope of Meadlock mountain near the head of McKinney Cove, 1.0 mile N26°E from McKinney Cove church (Bakersville, N.C.-Tenn. Quad. TVA 1:24,000). The mine can be reached by 4-wheel drive vehicles on a rough mine road 1.2 miles long that turns right off the McKinney Cove road 0.4 mile north of McKinney Cove church.

History: The Lick Ridge prospect is an old mine operated for both feldspar and sheet mica. No records concerning early history and production are available. The most recent work was done by Dallas Young (1954-55) and J. B. Wilson (1955-56). Between July 1954 and April 1956, 2287.29 pounds of trimmed mica was sold at the Spruce Pine Depot for $41,092.32.

CONTRACT WORK

Work under contract DMEA-4937, Idm-E1205 started June 27, 1958 and was completed on the 29th of August 1958. The road was repaired by moving more than 500 cubic yards of dirt, the excess at the Operators' expense. A toolhouse, powder magazine and cap magazine were built. The portal site was prepared at the Operators' expense near the center of the pegmatite exposure in an area of caved ground. A drift was driven 85 feet about N40°E at plus 10° to 15° following the footwall of the pegmatite. Another drift was driven 15 feet N25°W from near the portal of the main drift, also following the footwall of the pegmatite in an attempt to follow the small mica concentration intersected in the main drift.

The work was done quickly and efficiently. A serious fire in the compressor burned one of the Operators and slowed work for two weeks in August. The Operators cooperated with the Examiners and attempted to follow their suggestions.

GEOLOGY

The Lick Ridge pegmatite is a sill about 280 feet long, more than 100 feet wide and 10 to 15 feet thick. The northern part strikes north or northeast and dips 10° to 15° east. Along the contract drift the footwall rolls up and the pegmatite strikes northwest and dips 10° southwest. Near the south end it seems to strike east and to dip 10° to 15° south. The sill is

roughly concordant with the foliation of the garnetiferous hornblende gneiss country rock. Near the south end of the open cut there is an upward projection of the pegmatite as a dike. This dike has a strong cataclastic foliation roughly parallel to the contract between pegmatite and gneiss. Past-pegmatite deformation has produced a strong cataclastic foliation in a zone 1 to 2 feet thick along the hanging wall of the main pegmatite sill; a weak foliation is also present within the sill.

The pegmatite is composed of coarse-grained plagioclase, quartz, muscovite, and biotite. Only minor amounts of perthite are present. Iron sulfides and garnet are fine-grained accessory minerals. The past-pegmatite shearing has granulated some of the quartz and feldspar grains. The surfaces of some of the large books of muscovite are coated with ground mica. Some of the books are bent and ruled.

The muscovite is a smoky brown and nonruby. About 150 pounds of fair quality mica in books up to 10 by 12 inches was recovered in the first 20 feet of the long northeast drift and the short northwest drift. This mica was a few feet above the footwall of the pegmatite. Work done by the Operators in the northern stope after the contract work disclosed a mica concentration closer to the hanging wall of the pegmatite than previous Operators had reported. About 1.5 tons of mine-run muscovite was recovered from the northern stope. The outsides of the mica books are deformed and coated with ground mica but pattern can be trimmed from the centers.

PRODUCTION AND RESERVES

About 150 pounds of mine-run muscovite was recovered from the contract drift and 1.5 tons from the work in the northern stope. No reserves were outlined by the contract work. The Operator reports selling 82.13 pounds of trimmed mica for $1,274.14, about $15.50 per pound.

RECOMMENDATIONS AND CONCLUSIONS

We recommend that no certification be made. No mica concentrations were found during the contract work and no reserves can be estimated. The pegmatite, however, has not been fully explored. The work done after the contract found mica in what may be an elongate south-plunging shoot about midway between the hanging wall and footwall of the body. If other shoots are present they may cross the sill at an angle. If so, mica that was mined near the footwall in the eastern and southern parts of the northern stope may have come from such plunging shoots. The contract drift which followed the footwall may be too low in the body to cut additional shoots. The eastern limit of the pegmatite was not reached. Because of the large size of the pegmatite additional exploration seems warranted.

EXPENDITURES

Total approved	$3,764.00
Total cost of project	3,764.00
Government's share of cost	2,823.00
Value of production	1,274.14
Royalty paid	63.70

November 26, 1958

F. G. Lesure, Geologist
Geological Survey (OME)

S. A. Feitler, Mining Engineer
Bureau of Mines (OME)

z

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 1 1958
DATE

11/12 C 220
11/12 Hand 600

November 10, 1958

Memorandum

To: Finance Officer, Region V (OME) Morris, Tenn.

From: Executive Officer, OME - Region V - Knoxville, Tenn.

Subject: Royalty Payment - DMEA-4937, Idm-K1205 (mica)
McMahan, Young & Pitman, Applicants
Lick Ridge Prospect, Mitchell County, N.C.

Attached are settlement sheets for mica sold from the subject prospect in the amount of $1,274.14 and their check dated November 7, 1958 for 5% royalty on the sale in the amount of $63.70 to be credited to the contract.

Robert A. Laurence

zm.
Acting Director OME
Lynch
Files

510.00 ¤
437.46
326.68

1,274.14 ¤
.05
637070

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM: [X] A [ ] B

DATE PURCHASED

ACCEPTANCE NUMBER

O. M. E.

OFFICIAL FILE COPY

RECEIVED NOV 2 [illegible]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[illegible]	[illegible]		

DATE	INITIALS	CODE

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		[illegible]			21.90	
GRADES NO. 4 AND 5		[illegible]			18.25	
GRADES NO. 5½ AND 6		3.00			7.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00			14.80	
GRADES NO. 4 AND 5		4.00			6.85	
GRADES NO. 5½ AND 6		2.00			4.00	
TOTALS			$			$

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$	
GRADES NO. 4 AND 5				4.97	40.00	[illegible]	198.80
GRADES NO. 5½ AND 6				[illegible]	17.70	[illegible]	160.36
STAINED				9.36			
GRADES NO. [illegible] AND [illegible]		[illegible]			25.55		
GRADES NO. 4 AND 5		4.00		1.75	14.60	[illegible]	25.55
GRADES NO. 5½ AND 6		2.40		7.68	6.55	[illegible]	50.30
HEAVY STAINED							
GRADES NO. 3 AND LARGER		6.40			11.85		.33
GRADES NO. 4 AND 5		3.20		.06	5.45	.33	
GRADES NO. 5½ AND 6		1.60		.53	4.00	[illegible]	2.12
TOTALS			$			$	

TOTAL YIELD AND VALUE [ ] RUBY [ ] NONRUBY *(Half trim plus full trim)* 24.05 LBS. $ [illegible] 437.46

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING

FINAL BASIS FOR PAYMENT $ [illegible] 437.46

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER [illegible] 251.84

BALANCE DUE [ ] SELLER [ ] GOVERNMENT $ [illegible] 185.62

NAME AND LOCATION OF MINE

[illegible]

[illegible] $2.34

PROCESSED FOR PAYMENT (LBS.)	24.05
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK *(Dots, Spots, Stained)*	
UNDERSIZED	.01
PROCESSING LOSS	[illegible]
TOTAL POUNDS PURCHASED	24.06

SELLER'S NAME AND ADDRESS *(Type or print)*

[illegible]

APPROVED

DEPOT SUPERINTENDENT

DATE

Bought from Bill Pitman 35½ lbs. = $510.00

Joe L. Snyder

FORM APPROVED BY COMP[illegible] U.S. MA[illegible] 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM: [X] A [ ] B

DATE PURCHASED: [illegible]-12-58

ACCEPTANCE NUMBER: [illegible]-120(2)

CERTIFICATE AUTHORIZATION NUMBER: [illegible]-1495 A

LOT NUMBER: [illegible]-120 (2)

VOUCHER NUMBER: RECEIVED

SCHEDULE NUMBER: [illegible]58

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		[illegible]			31.90	
GRADES NO. 4 AND 5		5.00			18.25	
GRADES NO. 5½ AND 6		3.00			7.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00			14.80	
GRADES NO. 4 AND 5		4.00			6.85	
GRADES NO. 5½ AND 6		2.00			4.00	
TOTALS			$			$

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$	
GRADES NO. 4 AND 5				3.00	40.00	120.00	120.00
GRADES NO. 5½ AND 6				6.26	17.70	110.80	110.80
STAINED							
GRADES NO. 3 AND LARGER		3.60			[illegible]		
GRADES NO. 4 AND 5		4.00		2.54	14.60	37.21	37.81
GRADES NO. 5½ AND 6		2.40		7.65	6.55	50.11	50.11
HEAVY STAINED							
GRADES NO. 3 AND LARGER		6.40			11.85		
GRADES NO. 4 AND 5		3.20		.22	6.45	1.20	1.20
GRADES NO. 5½ AND 6		1.60		1.69	4.00	6.76	6.76
TOTALS			$			$	

TOTAL YIELD AND VALUE [ ] RUBY [X] NONRUBY (*Half trim plus full trim*) 21.41 LBS. $ 326.68 — 326.68

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING $ 326.68 — 326.68

FINAL BASIS FOR PAYMENT $ 204.56 — 204.56

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER $ 122.12 — 122.12

BALANCE DUE [X] SELLER [ ] GOVERNMENT

NAME AND LOCATION OF MINE

[illegible], Mitchell Co., [illegible]
[illegible] 43.23

PROCESSED FOR PAYMENT (LBS.)	21.41 — 21.41
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (*Dots, Spots, Stained*)	
UNDERSIZED	16
PROCESSING LOSS	.16
TOTAL POUNDS PURCHASED	21.57 — 21.57

SELLER'S NAME AND ADDRESS (*Type or print*)

[illegible]
Route 4
[illegible]ville, [illegible]

APPROVED

DEPOT SUPERINTENDENT

DATE [illegible]-30-58

GSA WASH D C 58-3177

GSA FORM 1013a SEPTEMBER 1957

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

PAID ON VOUCHER & SCHEDULE
PAYMENTS K- 18

Month of August, 1958 Docket No. DMEA 4937 Contract No. 1205
Operator's Name McMahan, Young & Pitman Minerals Mica
Address c/o Paul McMahan, Rt.4. Bakersville, N.C.
Contract Amount, $ 3,764.00 Government Participation 75% Amount, $ 2,823.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Mineral~~ Short Form Contracts:						
Drilling						
Bulldozing	None	150.00	150.00			
Crosscutting						
Drifting	1050.00	2450.00	3500.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	None	114.00	114.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1050.00	2714.00	3764.00	1050.00	2,714.00	3,764.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 9-1-58 *Payee McMahan, Young & Pitman

Per Bill Pitman Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 787.50

Signature Helen R. Miller
(Authorized Certifying Officer)

Date OCT 1 1958 Vou. No. 42
(See other side)

2+7

C 8/30 262.50

(For Government use only)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. F 1205 in accordance with the terms of the contract.

Signature S. Keether Title MINING ENGINEER ~~U. S. BUREAU OF MINES~~ Date SEP 15 1958

Approval by DMEA Executive Officer or Alternate:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM ~~REGION V~~ Date SEP 15 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF–104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF–104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF–104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF–104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF–200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF–200; and delete word "Independent" if the contract reported is on Form MF–200 (A). Also, report work paid for on a unit basis under contract Form MF–200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF–104 when submitted for reimbursable expenses incurred under contract Form MF–200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF–200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF–104 is required to be documented. The four copies of Form MF–104 are not to be thus supported.

Form MF–104 submitted for reimbursement under fixed price contracts on Form MF–200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF–104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED OCT 5 DMEA

Month of August 1958 Docket No. DMEA 4937 Contract No. 1205
Operator's Name McMahan, Young & Pitman Minerals Mica
Address c/o Paul McMahan, Rt. 4. Bakersville, N.C.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	Ft.	1,050.00	(30)	3,500.00	100	35.00	100	35.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails Cu	Yds	None	None	150.00	500	0.30	500	0.30
Total Distributed Costs		1050.00	30	3650.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		None	None	114.00				114.00
Total Costs		1050.00	30	3764.00				3764.00

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

Date 9-1-58 Operator McMahan, Young & Pitman

Per Bill Pitman Title Partner

Remarks: The above 30 ft drifting includes a 15 ft crosscut 30' in from mouth of old tunnel. This is a final report on project.

NOTE.—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.

(Instructions on reverse)

(For Government use only)

S Feicler

MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

DAILY WORK PROGRESS REPORT

Month Of August, 1958
Work Accomplished:
Lick Ridge Mica Prospect
Mitchell County, N.C.

DMEA----4937
Idm-E---1205

Final Report

Daily Notes: All work done during this period consisted of driving a drift 30 feet with strike of pegmatite body. Included in this phase of work was a 15 foot crosscut of the body about 30 feet in from the mouth of the old tunnel. About 35 lbs of crude mica was recovered during operation.

August 1st, 1958---Drilled 20-6' holes, Shot and mucked out after blast.

August 4th to 12th inclusive. No work done due to fire that injured one of the workers at the project.

August	13th,	1958.	Drilled	20- 6'	holes, shot and mucked out.
"	14th,	"	Drilled	18- 6'	holes, shot and mucked out.
"	15th,	"	Drilled	20- 6'	holes, shot and mucked out.
"	18th,	"	Drilled	20- 6'	holes, shot and mucked out.
"	19th,	"	Drilled	20- 6'	holes, shot and mucked out.
"	20th,	"	Drilled	18- 6'	holes, shot and mucked out.
"	21th,	"	Drilled	18- 6'	holes, shot and mucked out.
"	22nd,	"	Drilled	20- 6'	holes, shot and mucked out.
"	25th,	"	Drilled	20- 6'	holes, shot and mucked out.
"	26th,	"	Drilled	20- 6'	holes, shot and mucked out.
"	27th,	"	Drilled	18- 6'	holes, shot and mucked out.
"	28th,	"	Drilled	18- 6'	holes, shot and mucked out.
"	29th,	"	Drilled	18- 6'	holes, shot and mucked out.

NOTE: Work done on the 27th thru the 29th inclusive was on the crosscut of the pegmatite body 30 feet in from the mouth of the old tunnel. During all the above period of operation there was no indication of any mica build up visible. There was noted several small clusters of mica books but none of commercial value due to size and texture.

Respectfully submitted,

McMahan, Young & Pitman

By: Bill Pitman
Partner.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

10/3 Hand 600

~~September~~ October 1, 1958

orig to 800

Memorandum

To: Jay L. Chambers, Director Contract Administration and Audit Division, OME - Washington

From: Executive Officer, OME - Region V - Knoxville, Tenn.

Subject: DMEA-4937, Idm-E1205 (mica) Lick Ridge Prospect, Mitchell County, North Carolina. Young, McMahan & Pitman, applicants.

It has been verified by our Field Examiners that all the drift work completed (100 feet) in the subject contract was on the footwall of the pegmatite, thereby conforming to the terms of the contract.

Robert A. Laurence

VJL/sm
cc
Lynch
Files

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 3 1958
DATE | INITIALS | CODE
10/3 | C | 220
" | | 100
" | | 110
" | EEF | 800
" | | 600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4937, Idm-E1205 (mica) LICK RIDGE PROS.
Mitchell County, N. C.

Operator: McMahan, Young and Pitman, c/o Dewey Young, Route #1, Bakersville, North Carolina.

Location: On the south slope of Meadlock Mountain near the head of McKinney Cove, 1.0 mile N65°E from McKinney Cove, Mitchell County, North Carolina.

Work under the contract has been completed during the interim by driving 15 feet of inclined drift N25°W from a point 30 feet from the collar of the contract drift. About 25 pounds of mine-run muscovite was recovered in the first 5 feet of the northwest drift.

The Operator went into the northwest part of the northwest stope and recovered about one and one-half tons of mica from which they expect to realize $3000 when it is trimmed. The footwall is not exposed, but the mica was recovered from nearer the hanging wall than the footwall.

No discovery resulted from the contract work, although mica is being produced from another part of the mine. Less than 200 pounds of mica was recovered from contract work.

Work done under the contract: Road repair 500 cu. yds., $150.00; construction (3) structures..$114.00; inclined drift 100 feet...$3,500; total $3,764.00.

Inspected: Sept. 22, 1958

Certificates?

S. A. Feitler, Mining Engineer
Bureau of Mines

F. G. Lesure, Geologist
Geological Survey

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DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/19	Talbert	800
9/23	C	220
		100

Office of Minerals Exploration

SEP 19 1958

Mr. Robert A. Laurence
Room 13, Post Office Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4937 (Mica)
McMahan, Young & Pitman
Contract No. Idm-E1205

Dear Mr. Laurence:

Enclosed are the original and three copies of a Report of Review, as requested by your September 16 memorandum. Also enclosed is the Operator's final (August 1958) MF-104, which was submitted with your request.

This report has been prepared on the premise that the statement in your memorandum that "A drift was driven a total of 100 feet" is correct. The contract provides for "not more than 100 feet of inclined drift along the footwall of the pegmatite". The Operator's final MF-104A, however, states that the drifting claimed "included a 15 ft. crosscut 30' in from mouth of old tunnel".

If the entire 100 feet claimed was in fact all drifting and you concur with the facts stated in this report, please make the usual distribution. If all of the 100 feet was not drift along the footwall of the pegmatite, distribution of the report should be withheld until the contract is appropriately amended.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert
Contract Administration
and Audit Division

cc: Docket
Act. Director's Reading File
Mr. Chambers
Mrs. Helen R. Miller
Mr. Talbert

Enclosures
EDTalbert/GMcC
September 18, 1958

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 18 1958

DATE	INITIALS	CODE
9/18	C	220
9/18	Frank	600

September 16, 1958

Memorandum

To: Jay L. Chambers, Director, Contract Administration and Audit Division, DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville, Tenn.

Subject: Completion of DMEA-4937, Idm-E1205(mica) McMahan, Young & Pitman. Lick Ridge Prospect, Mitchell County, N.C.

Work on the subject contract has been completed.

The following units of work have been acceptably performed as verified by our Field Examiners:

1. A toolhouse, powder magazine and exploder magazine were constructed.

2. 500 cubic yards of material were excavated in access road construction.

3. A drift was driven a total of 100 feet.

A final engineering and geological report has been received.

The final MF-104 for August 1958 is enclosed. A Report of Review is requested.

Robert A. Laurence

VJL/am
cc
Opr. Com-2
Lynch
Files

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. 600		
2.		
3.		
4.		
5.		
FROM: Talbot		

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information

REMARKS:

Note —

Opr. claims 85' drift & 15' crosscut.

Contract specifies 100' drift.

Talbot

9/17/58

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

M25803

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

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 17 1958

DATE	INITIALS	CODE
9/17	C	220
9/17	[illegible]	800
9/17	[illegible]	600

September 15, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Operator's Final Engineering & Geological Report DMEA-4937, Idm-E1205 (mica) Lick Ridge Mica Pros. Mitchell County, North Carolina

Transmitted are the original and two copies of the subject report.

Robert A. Laurence

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

V. J. Lynch

V. J. Lynch, Member
Bureau of Mines

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ORIGINAL FILE COPY
DMEA

FINAL GEOLOGIC & ENGINEERING REPORT

Weekly Work Progress Summary
Of Mining Operation Including
Geologic Data, Results Accomplished, Mica Recovered, Ect.

Re: DMEA-4937
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, N.C.
Contract No. Idm-I 1205

SUMMARY

June 27th to 29th Inclusive.

During this (3) day period all necessary mining machinery and equipment was moved up to mining site and located in proper place. (b) Machinery set up and necessary repairs and adjustments made on same.(c) Road to mining site and surplus muck on and ajacent to mining location bulldozed out prior to start of mining operations. (24) man hours consumed during this period with a crew of (3) men.

July 1st To 5th, Inclusive.

July 1st: Erected toolhouse and powder & exploder magazines.
July 2nd To 5th Inclusive: During this (4) day period actual mining operations was started and pursued. Begining at a point approximately at center of the large open cut, an incline drift with a cross-sectional dimension of approximate 5 feet by 7 feet was started along the northeast strike of the pegmatite body and drove (13) feet along and with the ~~hanging~~ foot wall slate binder. During this (13) foot penetration of the pegmatite body no mica deposits were encountered. The body was composed mainly of hard soda feldspar and quartz. Approximately 228 lft of holes were drilled and shot during this period and all the muck from shots removed. (40) man hours consumed with a crew of (3) men.

July 7th To 11th, Inclusive.

During this (5) day period the 5' X 7' drift was continued along the NE strike of the main pegmatite body holding with the footwall slate binder. The drift was extended some 14 feet in length over the previous weeks operation making a total of some 27 feet penetration of the pegmatite body durthe 9 day period, 7-2 to 7-11 inclusive. No change of any importance was noted in pegmatite body during this period the strike of body still holding to the N-NE course with pitch of the body to the S-SE at approximately.65 to 66° dip. Feldspar and quartz still composed the main body. During this (5) day period some 342 Lft of holes was drilled and shot and all the muck removed. (40) man hours were consumed by a crew of (3) men.

July 14th To 18th, Inclusive.

During this (5) day period the mining operation was continued with all efforts towards the futher penetration of the 5' X 7' drift along the footwall slate binder of the main pegmatite body. No change in body formation noted during this period which continued to be wide and stationery in its contents, course and slope. Feldspar and quartz still remained as the main builup of the body with no indication of any mica deposits of any importance During this (5) day period a futher penetration of some (13) feet was made along the NE strike of the body bringing the total of some (40) feet penetration during the periods 7-2 to 7-18th, inclusive. Some 234 Lft of holes were drilled and shot during this (5) day period and all muck removed by a (3) man crew consuming (40) man hours work.

July 21st To 25th, Inclusive.

During this period the operation was routine with previous periods in the futher extension of the drift along the NE strike of the pegmatite body for a distance of some (15) feet ajacent to the footwall slate binder of the pegmatite body. The body continued to remain practically flat with little if any dip to the S-SE. Hard feldspar and quartz still compose the main body with a very small cluster of mica books noted but scattered of a very wide area and to small to be of value. Total penetration to date (55) ft. During this period some 3 54 Lft of holes were drilled and shot and all the muck removed. (40) man hours consumed by a crew of (3) men.

THE FINAL GEOLOGIC & ENGINEERING REPORT
(Cont)

Weekly Work Progress Summary
Of Mining Operation Including
Geologic Data, Results Accomplished, Mica Recovered, Ects.

Re: DMEA-4937
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, N.C.
Contract No. Idm-E 1205

SUMMARY

July 28th To August 1st, Inclusive.

During this (5) day period all mining efforts were made towards the futher penetration of the 5' X 7' incline drift along the mean strike of the main pegmatite body in a NE direction holding with the footwall binder of the said pegmatite body. All during this period of operation no change was noted in the general geologic nature of the body. The body continued to be rather wide and composed almost entirely of hard soda feldspar and a rather generous intermingling of quartz with a few widely scattered clusters of small mica books of little or no value. The body remained unusually flat for a mica formation with a slight dip of the body to the S-SE of probbaly not over .05° to the S.SE. During this (5) day period a futher penetration of (15) feet was made along the general strike of the body bringing the total overall penetration up to about (70) feet for the period, July 2nd to August 1st inclusive. During this period (2-28 to 8-1) approximately 350 Lft of holes was drilled and shot and all the muck removed. A total of (40) man hours were consumed by a crew of (3) men working during this period.

August 4th to August 12th, Inclusive.

During this period there was no mining operation at the project due to an accident in which one of the workers was burned rather badly while attempting to put gasoline into the air compressor. All operations was suspended at project during this period 8-4 to 8-12th.

August 13th to August 15th, Inclusive.

Due to suspension of operations during the period 8-4 to 8-12 inclusive, this is a short period covering (3) days operation, During this short period a futher penetration of (9) feet was made in the drift along the strike of the pegmatite body. No change noted in the general formation of the body which continued rather wide and flat and holding to same course, NE, with little or no dip to body. Feldspar and abundant quartz still make up the main pegmatite body. Some 345 Lft of holes was drilled and shot and all the muck removed by crew of (3) men consuming some (24) working hours.

August 18th to 22nd, Inclusive.

Work during this (5) day period remained about routine with all the previous periods. All work done being confined to futher penetration of the 5' X 7' drift along the strike of the pegmatite body. Two small pockets of mica was encountered during this period and about 35 pounds of crude mica in books recovered. Books were mostly small in size but some of the books of a size for commercial use. Main body still remains rather wide and flat and still composed of almost entirely feldspar and quartz. Still no good indications of any mica buildup observed to date. A penetration of some (7) feet was made during this period due to certain repairs having to be made to the air compressor. About 350 ft of holes was drilled and shot and muck removed from mines. (40) man hours of work consumed by (3) man crew.

August 25th to 29th, Inclusive.

During two days of this period, (8-25 to 8-26 incl) work was done on the drift which was driven an additional (3) foot bring same up to a total of 85 feet of drift from portal to extreeme depth of said drift. During the period 8-27 to 8-29 inclusive, all work was confined to driving a crosscut approximately 15 feet long accross the pegmatite body at a point some (30) feet inside the main portal, bringing the total driftage and crosscuting up to 100 feet the amount allowed and specified in contract. No important change was noted anywhere in main body formation during this period in

Official

DMEA
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THE FINAL GEOLOGIC & ENGINEERING REPORT
(Cont)

Weekly Work Progress Summary
Of Mining Operation Including
Geologic Data, Results Accomplished, Mica Recovered, Ects.

Re: DMEA-4937
McMahan, Young & Pitman
Lick Ridge ~~Mica Prospect~~
Mitchell County, N.C.
Contract No. Idm-E 1205

SUMMARY

either the final (3) feet of the 5' X 7' incline drift driven with the NE strike of the main pegmatite body, or the (15) feet of crosscut of the body made approximately (30) feet inside from the main portal at approximate the center of the large open cut. Large quainities of soda feldspar and quartz were encountered during the entire 100 feet operation of drift and crosscut but no real indication of any reasonable amount of mica reserve was noted at any time by the operators of this project. During the last (5) day phase of operation a total of (18) feet was driven in the drift and the crosscut of the main pegmatite body. A total of some 665 Lft of holes was drilled and shot in the final (3) foot of drift and the (15) foot crosscut and all the shots mucked out. A total of (40) man hours was consumed by a (3) man crew during the last and final phase of this operation.

GENERAL SUMMARY OF OPERATION

Operation Began: July 27th, 1948.
Operation Terminated: August 29th, 1948.
Operation Required: (40) Working Days Of (8) Hours Each Or 320 Man Hrs
A Total Penetration Of (100) Lft Was made In Main Pegmatite Body By Means Of A (85) Foot Incline Drift Along NE Strike Of Body, Plus (15) Lft Of Crosscut Of The Pegmatite Body Approximately (30) Feet Inside From The Main Portal To Mine About Midway Of The Large Open Cut.
Minerals Recovered: About 35 lbs Of Crude Mica. (Not Processed)

Respectfully submitted,

McMahan, Young & Pitman

By: Bill Pitman
Partner

9-10 C 220
9/10 800
9/10 600

September 8, 1958

Mr. Paul McMahan
Route 1
Bakersville, North Carolina

Re: DMEA-4937 (Mica)
McMahan, Young and Pitman
Lick Ridge prospect
Mitchell County, North Carolina
Contract No. Idm-E1205

Dear Mr. McMahan:

We have received your final voucher and monthly narrative report for August.

However, before the voucher can be processed for payment, we must have your final geologic and engineering report, as provided in 5c of the contract, giving a description of work done, results accomplished, mica recovered and sold, etc. Please send this at your earliest convenience.

Sincerely yours,

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

RAL/mg
cc - Operating Committee (2)
Mr. Lynch
File

DMEA
RECEIVED SEP 8 1958

DATE	INITIALS	CODE
9/8	C	220
8	[illegible]	100
"	[illegible]	110
9/9	[illegible]	800
9/9	[illegible]	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4937, Idm-E1205(mica) LICK RIDGE PROSPECT
Mitchell County, North Carolina

Applicant: McMahan, Young & Pitman, c/o Dewey Young, R#1, Bakersville, N. C.

Location: On the south slope of Meadlock Mountain near the head of McKinney Cove, 1.0 mile N65°E from McKinney Cove, Mitchell County, North Carolina.

The drift has been driven 85 feet N40°E in pegmatite along the foot wall which has risen 15 feet from the portal.

The pegmatite in and near the face is medium-grained and contains plagioclase, quartz, and biotite with wisps and lenses of hornblende gneiss and some sulphides.

Leveling from the portal to the stope northwest of the contract adit indicates that the adit is following a ridge in the footwall, rising to the northeast. All other workings dip north to northeast.

The remaining 15 feet of drift will be used to try to eastablish continuity between the mica concentration cut near the portal of the contract adit and that in the stope northwest of the mid point of the adit. Drifting will be northwest, normal to the adit.

Inspected: August 26, 1958.

Stanley A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey (DMEA)

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OFFICIAL FILE COPY
DMEA
RECEIVED AUG 21 1958

DATE	INITIALS	CODE
8/21	L.g.	225
21	Cobb	100
"	TY	110
8/25	EEF	800
8/25	Hoch	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4937, Idm-E1205 (mica) LICK RIDGE PROSPECT
Mitchell County, North Carolina

Applicant: McMahan, Young & Pitman, c/o Dewey Young, R#1, Bakersville, North Carolina

Location: On the south slope of Meadlock Mountain near the head of McKinney Cove, 1.0 mile N65°E from McKinney Cove, Mitchell County, N. C.

The inclined drift is now at 57 feet, making the advance 16 feet during the interim. The Operator made an error measuring for the monthly report but the footage should agree by the time of the next inspection.

The pegmatite is composed principally of coarse-grained plagioclase and quartz with biotite along fractures, scattered garnet and sulfides and little perthite. Thin streaks of schist in the pegmatite near the face are almost flat as is the footwall.

A gasoline fire at the compressor resulted in the loss of almost two weeks. Paul McMahan, one of the partners has a third-degree burns on his right forearm. More serious injuries were prevented by the rubber suits worn by the two men involved.

Inspected: August 11, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey

z

Work began 6/27

Form M.P.-104 (Rev.) (April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED AUG 7 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE

OPERATOR'S MONTHLY REPORT AND VOUCHER

DOCUMENTS K-

Month of June-July, 195 8 Docket No. DMEA 4937 Contract No. Idm-E 1205

Operator's Name McMahan, Young & Pitman Minerals Mica

Address c/o Paul McMahan, Rt. 4. Bakersville, N.C.

Contract Amount, $ 3764.00 Government Participation: 75 % Amount, $ 2823.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing	150.00	None	150.00			
Crosscutting						
Drifting	2450.00	None	2450.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	114.00	None	114.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$ 2714.00	None	$ 2714.00	2,714.00		2,714.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 7-31-58 *Payee McMahan, Young & Pitman

Per Bill Pitman Title Partner

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$2,035.50

Signature Helen R. Miller (Authorized Certifying Officer)

Date AUG 5 1958 Vou. No. 18

(See other side)

678.50

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1205 in accordance with the terms of the contract.

Signature S Keitler Title MINING ENGINEER Date AUG 4 1958

U. S. BUREAU OF MINES

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

EXECUTIVE OFFICER

DMEA FIELD TEAM

Signature Robert A. Laurence Title REGION V Date AUG 4 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED AUG 7 1958

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June-July 1958 Docket No. DMEA 4937 Contract No. 1205 Idm-E

Operator's Name McMahan, Young & Pitman Minerals Mica

Address c/o Paul McMahan, Rt.4. Bakersville, N.C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft	2450.00	(70)	2450.00	(70)	2450.00	(100)	3500.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails	Cu Yds	150.00	(500)	150.00	(500)	150.00	(500)	150.00
TOTAL DISTRIBUTED COSTS	$	2600.00	(570)	$2600.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Toolhouse & Magazines		114.00	(3)	114.00				$ 114.00
TOTAL COSTS	$	2714.00	(573)	$2714.00				$ 114.00

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

Date 7-31-58 Operator McMahan, Young & Pitman

Per Bill Pitman Title Partner

REMARKS: This is initial report and covers the period June 27th to July 31st 1958 inclusive

NOTE.—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.

(Instructions on reverse)

(For Government use only)

SAFeiler

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

DAILY WORK PROGRESS REPORT

For Period: June 27 th
to July 31th, 1958

DMEA No. 4937

Idm-E 1205

Work Accomplished:

Date Work Began:
6-27-58

Moved machinery to mining site and set up same. Worked on road to mining site and removed old muck from mine. Built Powder and explosive magazines and erected toolhouse. Made repairs to mining equipment. Drilled holes, blasted and removed muck after each blast.

Daily Notes:

June 27th, 1958--Moved Mining machinery & equipment to mining site.
" 28th, " --Set up Mining machinery. Made certain repairs.
" 29th, " --Bulldozed and worked on road to mines.

July 1st, 1958--Erected toolhouse & built magazines at mine site.
" 2nd, " --Drilled holes, loaded & shot 20 6' holes.
" 3rd, " --Mucked out mines after blasting day before.
" 4th, " --Drilled, loaded & shot 18 6' holes.
" 5th, " --Mucked out mines after blasting day before.
" 7th, " --Drilled, loaded & shot 20 6' holes.
" 8th, " --Mucked out mines after blasting day before.
" 9th, " --Drilled, loaded & shot 19 6' holes.
" 10th, " --Mucked out mines after blasting day before.
" 11th, " --Drilled, loaded & shot 18 6' holes.
" 14th, " --Mucked out mines after blast day before.
" 15th, " --Drilled, loaded & shot 20 6' holes.
" 16th, " --Mucked out mines after blast day before.
" 17th, " --Drilled, loaded & shot 19 6' holes.
" 18th, " --Mucked out mines after blast day before.
" 21st, " --Drilled, loaded and shot 20 6' holes.
" 22nd, " --Mucked out mines after blast day before.
" 23rd, " --Drilled, loaded & shot 20 6' holes.
" 24th, " --Mucked out mines after blast day before.
" 25th, " --Drilled, loaded & shot 19 6' holes.
" 28th, " --Mucked out mines after blast day before.
" 29th, " --Drilled, loaded & shot 20 6' holes.
" 30th, " --Mucked out mines after blast day before.
" 31st, " --Drilled, loaded & shot 18 6' holes.

Respectfully submitted,

McMahan, Young & Pitman

By: Bill Pitman
Partner

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OFFICIAL FILE COPY
DMEA
RECEIVED JUL 31 1958

DATE	INITIALS	CODE
7/31	C	220
31	Cgm	100
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8/1	[illegible]	800
8/4	[illegible]	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4937, Idm-E1205 (mica) LICK RIDGE PROSPECT
Mitchell County, North Carolina

Applicant: McMchan, Young & Pitman, c/o Dewey Young, R#1, Bakersville, North Carolina.

Location: On the south slope of Meadlock Mountain near the head of McKinney Cove, 1.0 mile N26°E from McKinney Cove Church, Mitchell County, N.C.

Road excavation exceeds 500 cubic yards. A toolhouse, powder magazine and cap magazine have been built.

The drift has been driven 41 feet N40°E at plus 10° pm or near the footwall which strikes E-W to N45°W and dips 20°S to SW about 10 feet from the portal. The pegmatite is medium-to coarse-grained and contains plagioclase, perthite, quartz, and small mica. From the first 10 feet of drift, about 120 pounds of good muscovite up to 10" x 12" was recovered.

Drifting will be continued.

Inspected: July 22, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey (DMEA)

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DMEA
RECEIVED JUL 11 1958

DATE	INITIALS	COMM
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11		600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4937, Idm-E1205 (mica) LICK RIDGE PROSPECT
Mitchell County, N. C.

Applicant: McMahan, Young & Pitman, c/o Dewey Young, R#1, Bakersville, N. C.

Location: On the south slope of Meadlock Mountain near the head of McKinney Cove, 1.0 mile N26°E from McKinney Cove Church, Mitchell County, N. C.

Work was started June 27, 1958. At the time of the inspection, holes were being drilled to blast material to be removed in site preparation for which the contract makes no provision.

Road repair had been started but was not completed because of mechanical trouble with the bulldozer.

Inspected: July 1, 1958.

S. A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

D. H. Amos, Geologist
Geological Survey (DMEA)

z

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/12	Anderson	600
6/13	Hersh	600
6-13	Chambers	800
6/13	[illegible]	130
"	[illegible]	110
"	[illegible]	100
6/16	[illegible]	220
		600

600

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

13 JUN 1958

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina

Dear Mr. Laurence:

Enclosed are the original and four copies of a proposed short-form contract signed by the Administrator for the Government. It consists of the form, Annex I (1 page), Consent to Lien and Subordination Agreement, Exhibit A (2 pages), and one map. Also enclosed are two extra copies of Annex I, Exhibit A, and the map for Field Team use.

If the proposed contract meets with your approval, present it to the Applicants for execution. Copies of the executed contract are to be distributed in the usual manner. If any part of this proposed contract does not have either your approval or that of the Applicants and cannot be amended within your delegated authority, then the original and all copies of the contract and the two extra copies of Annex I, Exhibit A and the map are to be returned to this office, together with the proposed changes for consideration.

Copies of memoranda dated April 29 and May 13, 1958, by Mr. T. H. Kiilsgaard, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

Approved:

Frank D. Lamb (FLB)
Member, Bureau of Mines

Thor H. Kiilsgaard (FLB)
Member, Geological Survey

George C. Selfridge
Chairman, Operating Committee (FLB)

WCAnderson:gad 6/11/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Enclosures 11

8623

May 20, 1958

Mr. L. G. Houk calling Mr. R. A. Laurence in Knoxville, Tenn.

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina

I said this one was a border line case and thought it had very little to recommend it. I said we were considering a level drift along the strike but as there were only about 40 feet of unexplored ground it would be a small contract.

Mr. Laurence stated that most of the workings were inaccessible as they had taken up the footwall zone and blasted down the hanging wall zone ~~as~~ most of this area was covered with rubble and not available for inspection. I said we contemplate outright denial or a very small program of about 50 feet. He said it was our decision to make.

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

Metals or Minerals involved _____

Length of Contract (preproduction plus production) _____

Amount of Metals or Minerals in tons, units or pounds _____

Floor price or Guaranteed price and whether or not escalated _____

Maximum Government Commitment _____

Comments on Contract: _____

_____

_____

_____

_____

_____

Date sent to Legal Division _____

Date of Recommendation to D.P.A. for Certification _____

Date Certification sent to G.S.A. by D.P.A. _____

Date signed into Contract by G.S.A. _____

Additional Remarks: _____

_____

_____

_____

_____

NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Signed _____

Interior—Duplicating Section, Washington, D. C.

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

5-19 C 220
1600

May 16, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4937 (mica) McMahan, Young & Pitman
Lick Ridge Prospect, Mitchell County, N. C.

Reference is made to your letter of May 1.

The section accompanying the report map is practically a dip section. Please note that the true dip of the pegmatite is 10° to 15°, whereas the apparent dip in the plane of the section is 7 to 12°. Since a true dip section would be almost a duplicate of the one already drawn, we have not prepared one.

The footwall zone is not exposed in the mine. The Applicants reported that mica was mined from the footwall zone, and that the floors of the stopes were later covered with material slabbed from the hanging wall. The section should show a muck symbol between the bottom of the stopes and the projected (dashed) line showing the estimated former position of the footwall.

This pegmatite is not distinctly zoned, but the center probably contains a little more perthite than the margins, but not a true "core" of feldspar.

As nothing is known of the early history of this mine, there is no basis for assumption that the major portion of the stoped area was mined for feldspar, though it is probable that,

1-cc each
sent to
Mr. Kilsgaard, USGS
Mr Dietrich, USBM
5-21-58

tonnage -wise, by far the majority of material recovered was feldspar. That would be consistent with the economics of feldspar mining in the pre-flotation days when most mica mines also produced feldspar.

We have no additional factual data to provide. All available factual data (such as length and thickness of the pegmatite, its mineralogy, grain size, structure, value of reported production) were given in the report. It was the opinion of the Examiners that sufficient data were available on which to base a recommendation, so they did not ask the Applicants to do the considerable amount of work which would be required to provide additional exposures, and to obtain detailed statistical data.

We are puzzled by the statement that the Applicants must do all the preliminary work before the application receives further consideration. This work would be directed toward beginning the proposed work, and is not designed to provide additional information; therefore it should provide no basis for consideration of the recommendation one way or the other. Furthermore, the estimated cost of the proposed exploration is $4,678 with the preliminary work, or $4,339 without it. If the Lick Ridge prospect does not warrant a $4,678 project, it does not warrant a $4,339 one, and should be denied without further consideration or preliminary work. If the $4,339 incline work is to be done, we consider that the $339 worth of preliminary work is an essential and integral part of the work and should be provided for in the contract (if any).

Robert A. Laurence

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

Wm A Beck

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

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

May 13, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 4937 (mica)

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 13 1958

DATE	INITIAL	CODE
5/13	C	220
5/13	Hoch	600

Applicants: McMahan, Young and Pitman

Name and Location of Property: Lick Ridge Mica Prospect, Mitchell County, North Carolina

Date of Field Team Report: April 18, 1958

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: April 24, 1958

Field Team Recommendation: Recommend that exploration assistance be granted.

Comments:

1. This property is an old prospect and field examiners report between July 1954 and April 1956, 2287.29 pounds of sheet mica valued at $41,092.32 was produced.

2. This is a flat-dipping pegmatite from which mica has been mined in two areas from inclined drifts.

3. Proposed exploration would test area between the two mined areas and test possible extension of mica-rich rolls down dip.

4. Exploration proposed by applicants is consistent with local practices and in line with unit-cost estimates for other DMEA projects.

Recommendation:

I concur with the recommendation of the field team that assistance for further exploration is warranted.

W. F. Dietrich

W. F. Dietrich

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/30	Houk	600
4/30	GCS	130
"	Johnson	110
"	Matthews	100
5/1	C	0220
		600

600

MAY 1 1958

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V
Room 22, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4937-Mica
Hellman, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina

Dear Mr. Laurence:

The recommendation for a contract for $4,673.00 at this old feldspar mine is poorly supported by the examination report.

Please submit three or four dip sections for a clearer picture. Is the footwall zone of the pegmatite present beneath most of the mined out stope area? Is this pegmatite zoned? Was there a central core of feldspar here? May we assume that the major portion of the stoped area was mined for feldspar?

We will consider but not promise a limited program here if you are able to strengthen your examination report with factual data. When we receive your reply, if satisfactory, we will ask the Applicants to do all the preliminary work before further consideration.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Approved:

Noted by Frank D. Lamb (HB)
Member, Bureau of Mines

Noted by Thor H. Kiilsgaard (HB)
Member, Geological Survey

LGHouk:gad 4/30/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

OFFICIAL FILE COPY
DMEA
RECEIVED APR 29 1958

IN REPLY REFER TO:

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

Memorandum

April 29, 1958

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

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA Docket 4937 (mica), Lick Ridge Mica Prospect, Mitchell County, North Carolina.

The applicant reports the Lick Ridge property to contain a flat dipping pegmatite that has been mined in two areas from inclined drifts that apparently were driven down the dip of the pegmatite. Production from these working places, as of 1955, totalled more than $50,000. To further explore this pegmatite, the applicant proposes to drive an incline drift a distance of 300 feet between these two previously worked areas, and to drive two 100-foot crosscuts from this drift. Estimated cost of the program totals $16,440.00.

Field Examiners report that between July of 1954 and April of 1956 the Lick Ridge property produced 2287.29 pounds of sheet muscovite that sold for $41,092.32. This mica was taken from what appears to be rooms driven from an open pit down-dip in the pegmatite. Better production reportedly came from the eastern part of the northern pit. Most of the mica came from along the footwall of the pegmatite. The Field Examiners believe the pegmatite presents a good exploration target and recommend driving 120 feet of incline drift from about the center of the open cut, more or less midway between the two previous workings. This drift would have the purpose of determining the lateral extent of the pegmatite, and of exploring the footwall zone for mica concentrations and to determine structural or other controls of these concentrations. Estimated cost of their modified program is $4,678.00.

It is difficult to interpret any structural control of this pegmatite from the Field Examiners' map. Their Section A-A' does not show any suggestion of a roll, although it does show some stopes that

supposedly followed shoots of mica more or less downdip. The proposed incline drift would test the area between previous workings and could possibly find extensions of mica shoots between these workings. It also might find further shoots downdip. The property seems to have some merit and should warrant further exploration. I therefore concur with the Field Examiners and recommend that a contract be approved for the applicant.

T. H. Kiilsgaard

T. H. Kiilsgaard

4-28-58

Mr. Selfridge -

Weak project and poorly supported.

Unless a flat drift or crosscut could be driven along foot-wall for about 80', with preliminary cost being borne by applicant, a project hardly seems justified. ?

FEJohnson

10 year limitation on O.C.L.

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

April 18, 1958

DMEA
RECEIVED 21

4/21	C	220
4/25	HB	130
4/25	C	220
4/28	Hunt	600

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report - DMEA-4937 (mica)
Lick Ridge Mica Prospect - Mitchell County, N.C.

Transmitted are three copies of the subject report with maps attached and ~~7~~ 8 extra copies of the maps included.

The Field Team concurs with the Field Examiners in their recommendation for exploration aid on this project.

V. J. Lynch, Acting Executive Officer
DMEA Field Team, Region V

Helmuth Wedow, Jr., Geologist
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
4-25-58
(date)

Z

On-Site Exam Rpt

4/25 130
220

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA-4937 (mica) LICK RIDGE MICA PROSPECT
Mitchell County, N. C.

FIELD EXAMINATION REPORT, REGION V

F. G. Lesure, Geologist
Geological Survey

S. A. Feitler, Mining Engineer
Bureau of Mines

April 18, 1958

Released by
DMEA OPERATING COMMITTEE
4-25-58
(date)

RECEIVED APR 21
DATE
4/25 JHB 130
220

FIELD EXAMINATION REPORT

On

DMEA-4937 (mica) LICK RIDGE MICA PROSPECT

Mitchell County, N.C.

Applicants: McMahan, Young & Pitman, c/o Dewey Young, R#1, Bakersville, North Carolina

SUMMARY

A low-dipping pegmatite sill 280 feet long and over 100-feet wide has been worked from an open cut and two large irregular rooms. About $41,000 of sheet muscovite was sold from this mine between 1954 and 1956. Backfilling and caving has concealed the mica-rich footwall of the pegmatite, but the shape of the stoped areas suggests concentration of muscovite in shallow rolls.

It is recommended that exploration assistance be granted in the form of an incline to determine the limits of the pegmatite and to look for additional structures favorable for mica concentrations.

INTRODUCTION

Location: The Lick Ridge mine is on the south slope of Meadlock mountain near the head of McKinney Cove, 1.0 mile N26°E from McKinney Cove church (Bakersville, N.C.-Tenn, Quad., TVA 1:24,000). The mine can be reached by 4-wheel drive vehicles on a rough mine road 1.2 miles long that turns right off the McKinney Cove road 0.4 mile north of McKinney Cove church. About 2,000 feet of the lower part of this road are badly washed and need repair.

Examination: The examination of the Lick Ridge Mine was made April 1, 1958 and lasted about 4 hours. Mr. Paul McMahan, Dewey Young and Bill Pitman accompanied the Examiners.

Past Operations: The Lick Ridge mine is an old mine which according to the Applicants was at one time operated for feldspar. No records concerning its early history are available, although

Reviewed by
DMEA OPERATING COMMITTEE
4-25-58
(date)

the mine is indicated on Olson's map (1944, Economic Geology of the Spruce Pine Pegmatite District, N. C., N.C. Dept. of Conservation & Development. Bull.43. pl.2). The most recent work was done by Dallas Young (1954-55) and J. E. Wilson (1955-56). Between July 1954 and April 1956, 2287.29 pounds of sheet muscovite was sold for $41,092.32. A sale of hand cobbed mica of 1058 pounds contained 38 pounds of good stained, 17 pounds of stained and one pound of heavy stained.

Mine workings at the Lick Ridge mine consist of two irregular rooms driven into the hillside from an open cut about 300 feet long (see attached map). The northern room extends into the hill about 90 feet; the southern room about 70 feet. The Applicants report that most of the recent production came from the eastern part of the northern room. Much of the area has been partly back-filled with muck and is inaccessible. Recent caving attributed to removal of a pillar by high-graders has blocked part of the southern room which is also partly back-filled.

At the time of the examination there were no buildings or equipment on the property. Water for drilling may be obtained in the water hole of the northern stope. Electric power lines are about 0.5 mile to the west in McKinney Cove. The last few hundred feet of road are steep even for four wheel drive, but the terrain is such that no worthwhile improvement can be made at reasonable cost.

GEOLOGY

The Lick Ridge pegmatite is a low-dipping sill about 280-feet long and more than 100 feet wide. The footwall is not exposed but the body is reported to be 10 to 15 feet thick. It strikes generally north and dips 10 to 15°E. Post-pegmatite deformation has produced a strong cataclastic foliation in a zone 1 to 2 feet thick along the hanging wall of the pegmatite; a weak foliation is also present within the sill. The sill is roughly concordant with the foliation of the garnetiferous hornblende gneiss country rock. Near the southeast end of the open cut there is an upward projection of the pegmatite as a dike. This projection has a strong cataclastic foliation roughly parallel to the contact between pegmatite and gneiss. Both pegmatite and country rock are hard and unweathered.

The pegmatite is composed of medium-to coarse-grained plagioclase, quartz, muscovite, biotite, and minor perthite. The Applicants report that the muscovite recently produced came from the footwall and principally from the southeastern part of the northern room. Backfilling and caving, however, have concealed the footwall of the pegmatite and only a few books 4" x 5" were seen in place. The sales indicate that muscovite of strategic quality is present and if this mica was produced mostly from one area in the northern room the footwall zone of the pegmatite is mica rich. Circular shape of the small stoped areas in both the northern and southern rooms suggests that the muscovite is concentrated in shallow rolls in the footwall of the pegmatite. Because of the brecciation little mica of strategic quality can be expected along the hanging wall.

RECOMMENDATIONS

We recommend exploration assistance be granted. Production before 1955 is unknown but during 1955 and 1956 production from this pegmatite has amounted to $41,000 of strategic muscovite. This mica was apparently concentrated locally along the footwall of the pegmatite. Although very little muscovite was seen in place the past production and indicated size of this pegmatite make it a favorable geologic target. We recommend driving 120 feet of incline from about the center of the open cut to determine the lateral extent of the pegmatite and to explore the footwall zone to find mica concentrations and to determine structural or other controls of these concentrations.

The incline will start at -10° to -15°, necessitating hoistman, hoist, and pump. Therefore, all the work will have the same cost per foot whether down dip or along strike.

COST ESTIMATE

Prepare Access:

Repair 2000 ft. of road, 1/4 c.y./ft. 500 c.y. @ 30¢/c.y.....		$150.00

Construct:

Toolhouse	$75.00	
Powder magazine	25.00	
Cap Magazine	15.00	115.00

Prepare Site for Incline:

Reduce and remove rubble to grade on footwall at collar of incline.		
10 c.y. at $5/c.y.	50.00	

Slab to square face for collar
4 c.y. at $6/c.y. $24.00

$74.00

Drive 120 ft of incline 5' x 7'
in cross section along footwall
of the pegmatite. (60 shifts)

Equipment (rental)

1 - Compressor @ $150/Mo.	$450.00
1 - Hoist @ $50/Mo.	150.00
1 - Rock drill w/hose @ $40/Mo.	120.00
1 - Sump pump @ $40/Mo.	120.00
1 - Jackleg @ $25/Mo.	75.00
Total equipment (rental)	$915.00

250/mo. = 750.00

Labor:

1 - Foreman-Miner	$14/shift
1 - Hoistman	12/shift
1 - Laborer	8/shift
Per 8 hour shift	$34

Total labor 60 shifts @ $34/shift $2,040.00

Supplies, Tax & Ins.

Gasoline and oil	$170.00
Explosives	480.00
Drill steel	216.00
Small tools & Misc.	240.00
Sales Tax	33.00
Social Sec. & Ins.	245.00
	1,384.00

Total estimated cost of incline $4,339.00
Est. cost/ft of incline $36.16. use 35/ft. 4174.00

Summary of Estimates

Access	$150.00
Construction	115.00
Site preparation	74.00
Incline-120 ft	4,339.00

Total estimated cost of project.. $4,678.00

F. G. Lesure, Geologist
Geological Survey

S. A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

April 18, 1958

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/27	Houk	600
2/28	Selfridge	130
2/28	Lauck	130
2/28	Kilsgaard	130
"	Simon	110
"	Mutterator	100
3/3	C	220
		600

600

FEB 28 1958

McMahan, Young & Pitman
c/o Dewey Young
Route 1
Bakersville, North Carolina

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, North Carolina

Gentlemen:

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 (for)

Administrator

LGHouk:rsi 2/27/58
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
2/27	Houk	600
2/28	GCS	130
"	Johnson	110
"	Stirland of	100
		220

600

FEB 28 1958

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

Re: Docket No. DMEA-4937-Mica
McMahan, Young & Pitman
Lick Ridge Mica 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 February 7 and 25, 1958, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (DLB)

Approved:

Frank D. Lamb (DLB)
Member, Bureau of Mines

Thor H. Kiilsgaard (DLB)
Member, Geological Survey

LGHouk:gad 2/27/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Enclosures 5

8623

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 26 1958

DATE	INITIALS	CODE
2/26	C	220
		600

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

February 25, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4937 (mica)

Applicant: McMahan, Young, and Pitman (Partnership)

Name and Location of Property: Lick Ridge Mica Prospect, Mitchell County, North Carolina

Date Application Rec'd. by Br. of Ceramic & Fertilizer Mtls. 2/6/58

Comments:

1. Applicants request assistance to further explore a flat-lying pegmatite from which they claim over $50,000 worth of mica has been produced since 1955.
2. Reported production came from two drifts 100 to 125 feet apart 50 and 75 feet long.
3. Verification of above information may warrant mining by continuation of old drifts.
4. Although unit cost of proposed work is reasonable it appears that excessive drifting for exploration is planned. Cross-cutting between two existing drifts might be a better first stage of exploration work, location to be based on visible evidence in drifts.

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

DME
RECEIVED FEB 10 1958
2/10 C 220
600

IN REPLY REFER TO:

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

February 7, 1958
Re: DMEA 4937
McMahan, Young & Pitman
Lick Ridge Mica Prospect
Mitchell County, N. C.
$16,440.60 - 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 further exploration of a flat lying 10-foot pegmatite from which since 1955, according to the application, over $50,000 worth of mica has been produced.

The production, as reported, came largely from 2 drifts 100 to 125 feet apart and 50 and 75 feet long. The proposed work consists of another drift, between the two, and 300 feet long with two, 100-foot crosscuts from it.

Perhaps there was no reason for the late operators quitting their productive drifting at the 50 and 75-foot distances. A look is indicated.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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

February 6, 1958

Melahan, Young & Pitman
c/o Dewey Young
Route 1
Bakersville, North Carolina

Subject: DMEA-4937

Dear Mr. Young:

Your application for exploration assistance, dated January 7,1958 submitted to our office at Knoxville, Tennessee has been assigned Docket Number DMEA-4937 and referred to the Non Metallics Minerals Division 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

EXTRA COPY
RECEIVED
DATE CODE

February 4, 1958

Mr. Dewey Young
Route # 1
Bakersville, N.C.

Dear Mr. Young:

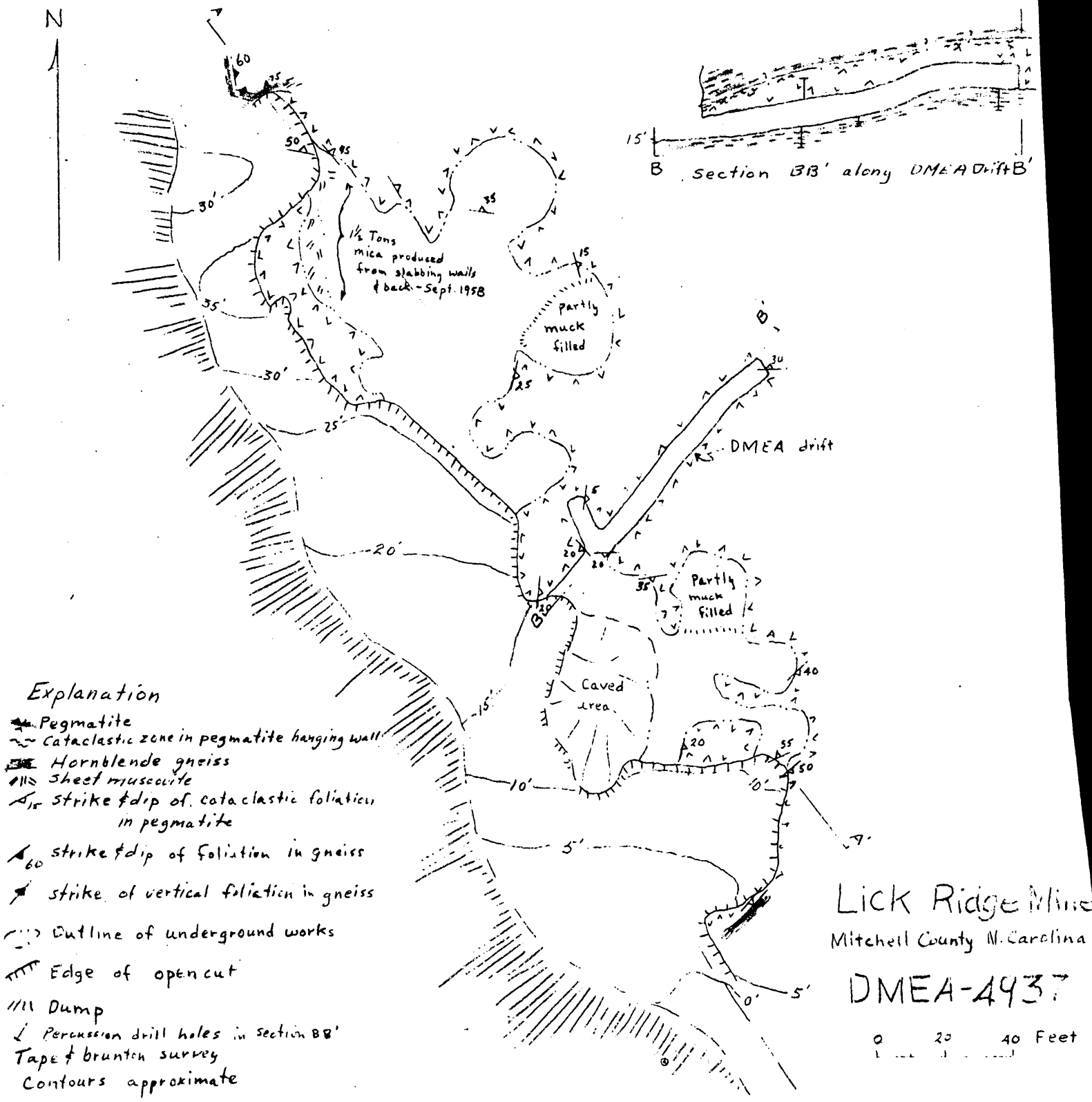
The application of McMahan, Young and Pitman (a partnership) for aid in exploring for strategic mica at the Lick Ridge prospect in Mitchell County, North Carolina has been forwarded to our Washington office, in accordance with established procedure. We will notify you if a field examination is to be made.

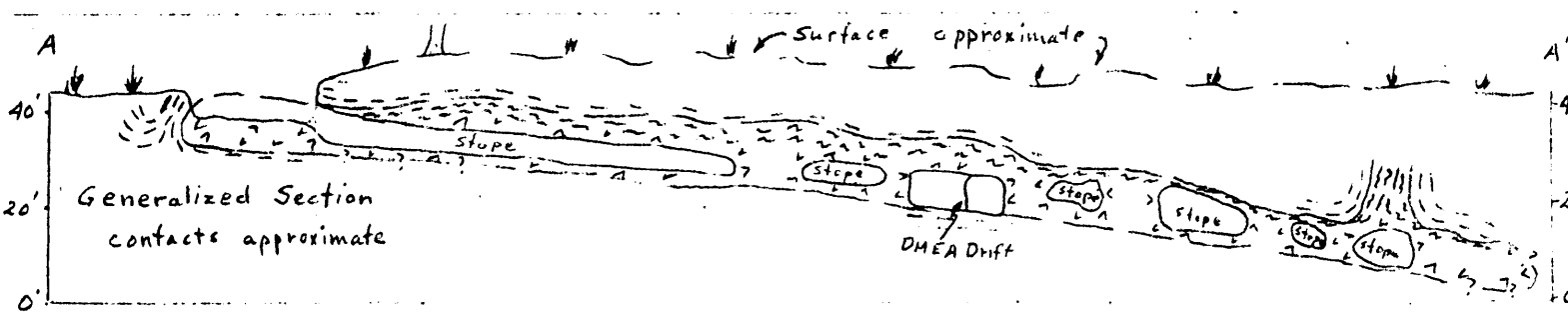
Please send me the mailing address of the Western Carolina Mining Company who are owners of the land.

Very truly yours,

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

RAL/am
cc
Lynch
Files
Opr. Con-2


N
1½ Tons mica produced from slabbing walls & back - Sept. 1958
partly muck filled
DMEA drift
Partly muck filled
Caved area
B
B'
Section BB' along DMEA Drift
Explanation
Pegmatite
Cataclastic zone in pegmatite hanging wall
Hornblende gneiss
Sheet muscovite
strike & dip of cataclastic foliation in pegmatite
strike & dip of foliation in gneiss
strike of vertical foliation in gneiss
Outline of underground works
Edge of open cut
Dump
Percussion drill holes in section BB'
Tape & brunton survey
Contours approximate
Lick Ridge Mine
Mitchell County N. Carolina
DMEA-437
0 20 40 Feet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Surface approximate
Stope
DMEA Drift
Generalized Section
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40'
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FGL 11/58

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O. M. E.
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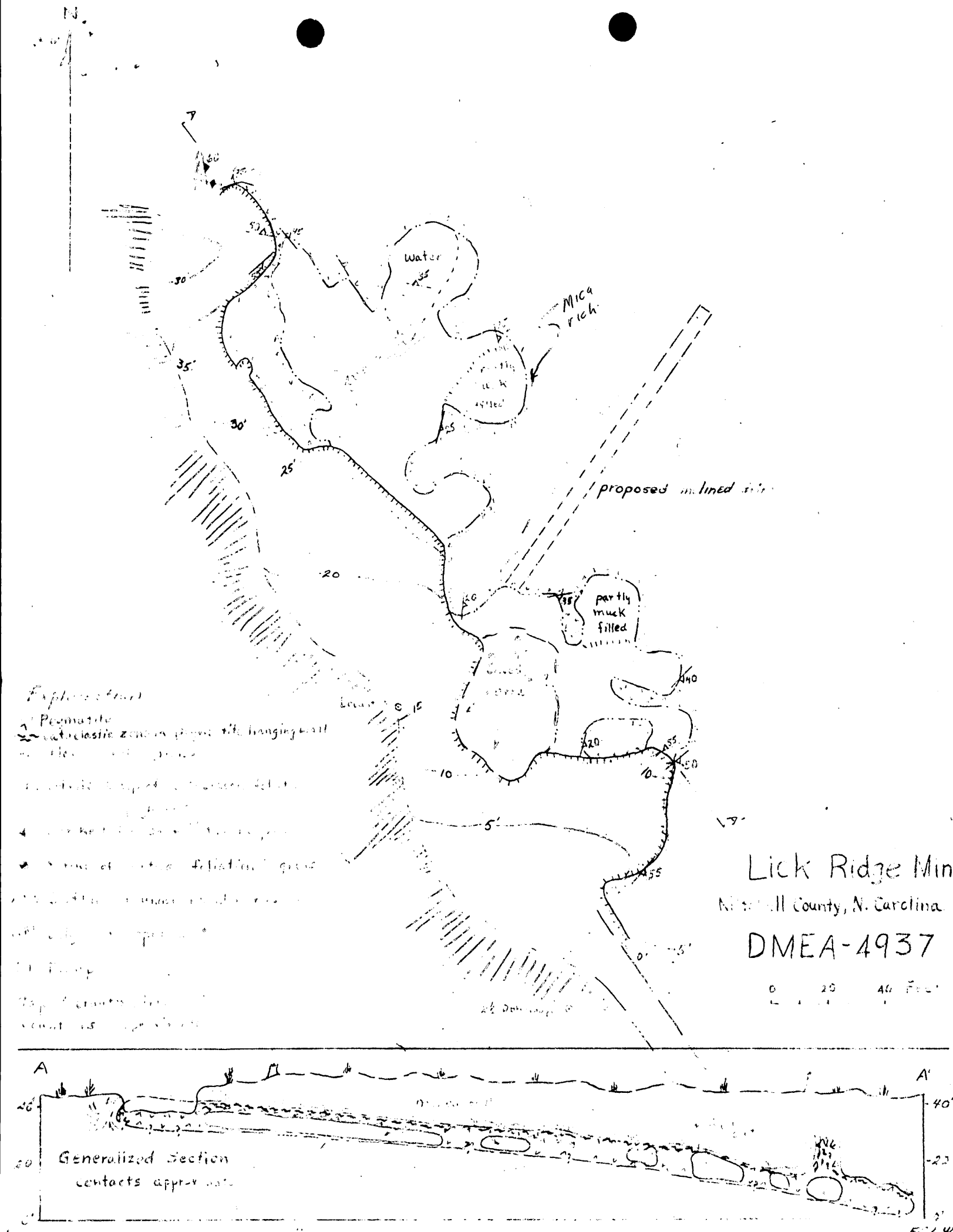
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Mica rich
proposed mined
partly muck filled
Explanation
Pegmatite
Lick Ridge Mine
Mitchell County, N. Carolina
DMEA-4937
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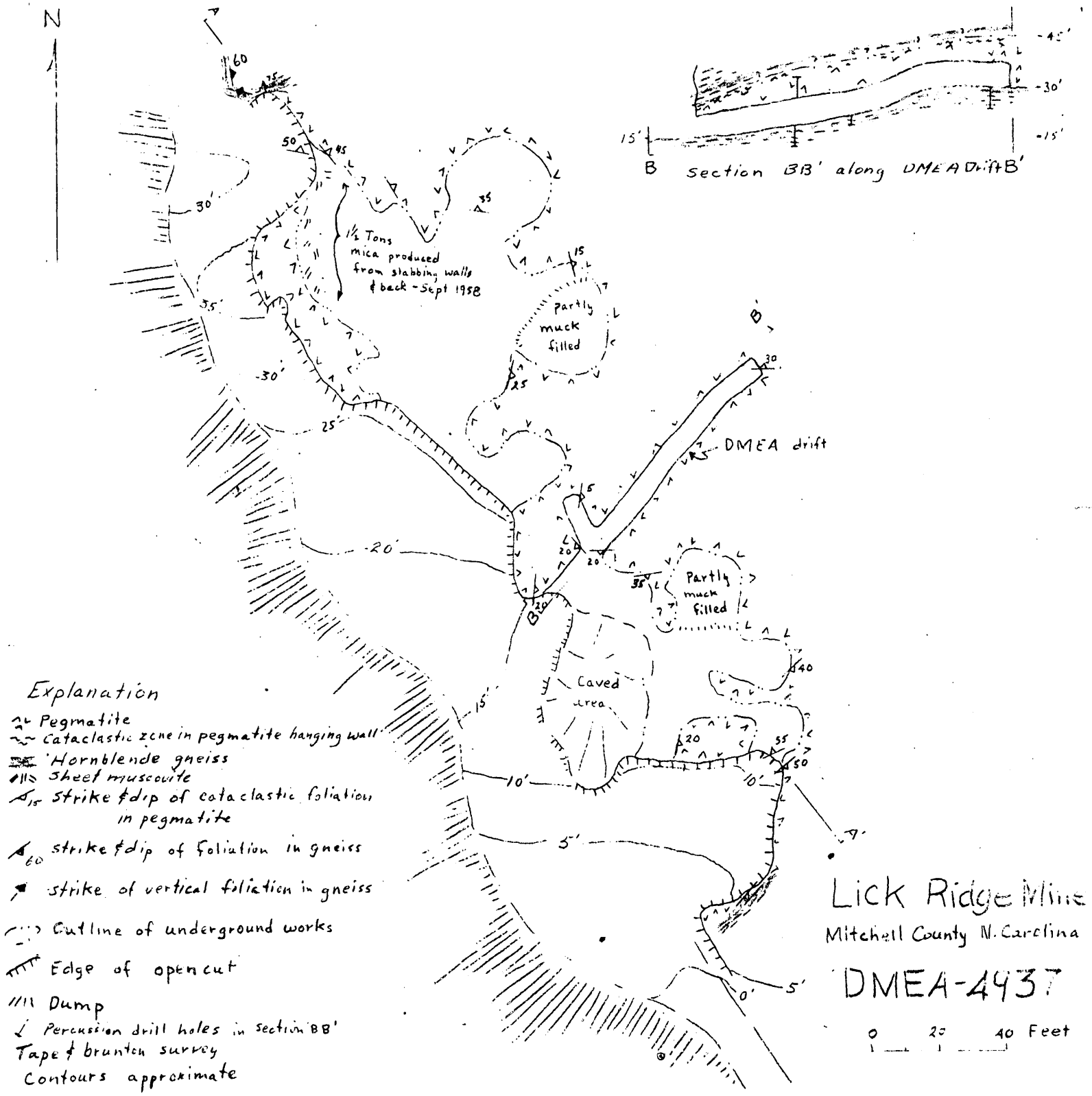
Generalized Section
contacts approx

OFFICIAL FILE COPY
DMEA
RECEIVED APR 21 1958
DATE | INITIALS | CODE


N
1½ Tons mica produced from stabbing walls & back - Sept 1958
Partly muck filled
DMEA drift
Caved area
Partly muck filled
B
B'
Section BB' along DMEA Drift
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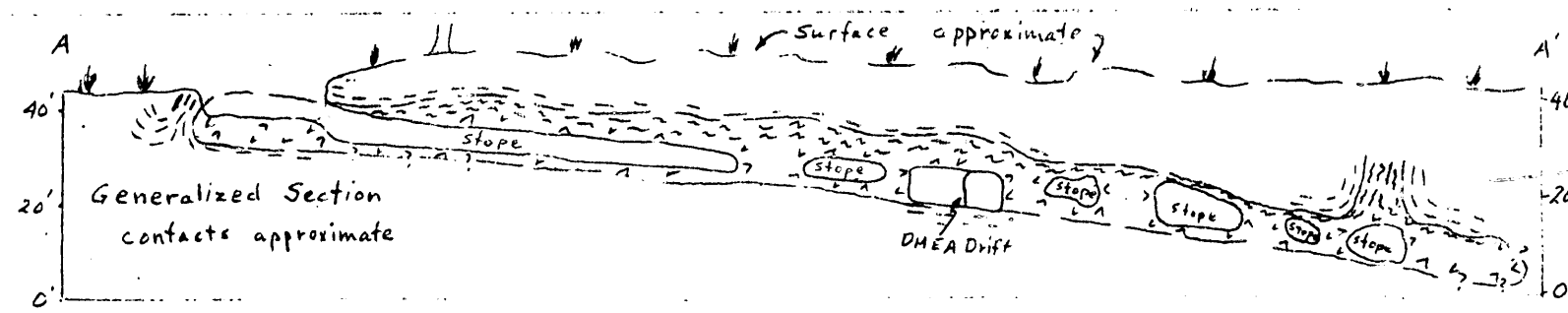
Cataclastic zone in pegmatite hanging wall
Hornblende gneiss
Sheet muscovite
Strike & dip of cataclastic foliation in pegmatite
strike & dip of foliation in gneiss
strike of vertical foliation in gneiss
Outline of underground works
Edge of open cut
Dump
Percussion drill holes in section BB'
Tape & brunton survey
Contours approximate
Lick Ridge Mine
Mitchell County N. Carolina
DMEA-437
0 20 40 Feet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DMEA Drift
Generalized Section
contacts approximate
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FGL 11/58

FILE COPY
28 1958

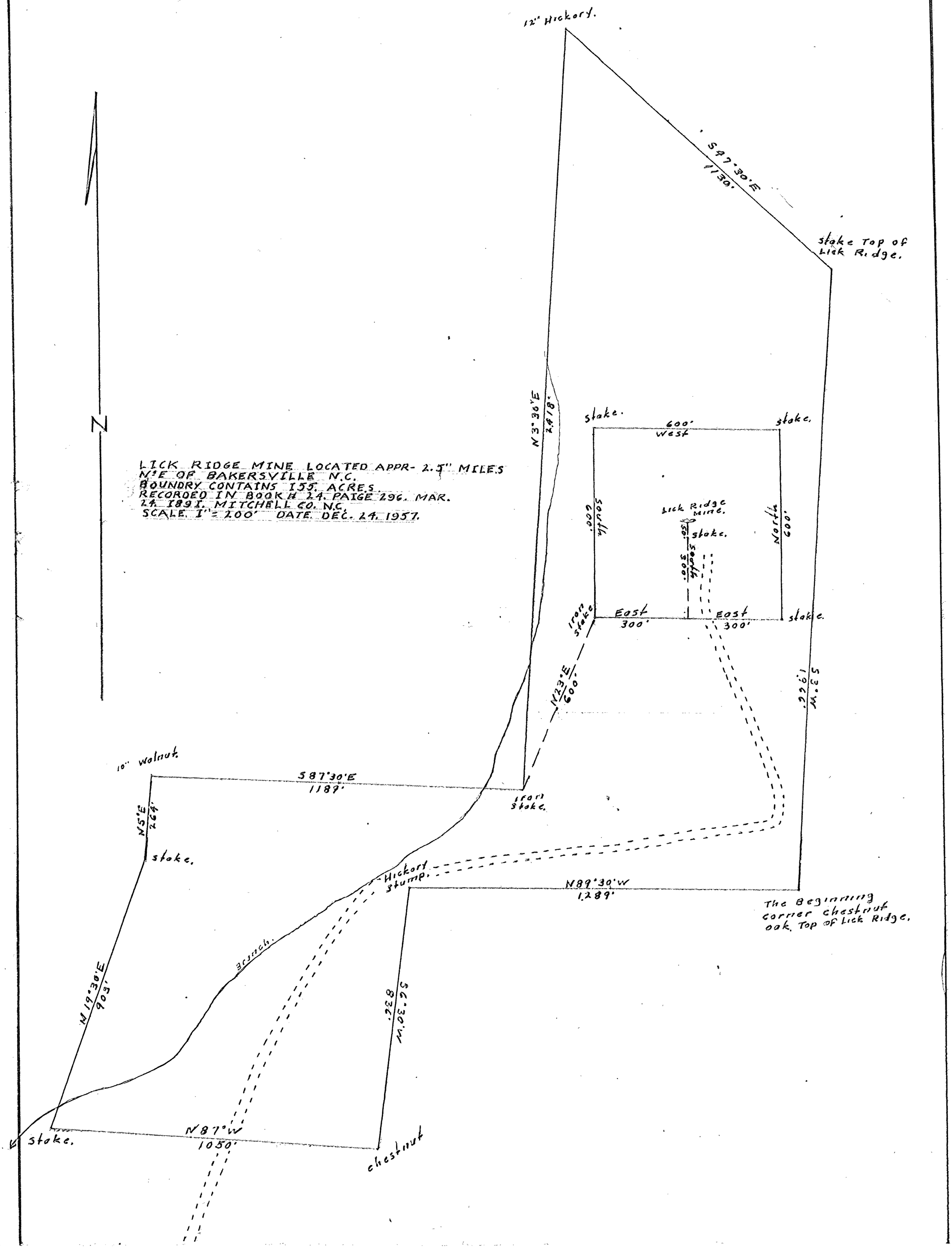
DM 4 - 4757

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

OFFICIAL BUSINESS

Maps

15


12" Hickory.
S47°30'E
1130'
stake Top of Lick Ridge.
N3°30'E
2418'
stake.
600' West
stake.
LICK RIDGE MINE LOCATED APPR- 2.5" MILES
N'E OF BAKERSVILLE N.C.
BOUNDRY CONTAINS 155. ACRES.
RECORDED IN BOOK H 24. PAIGE 296. MAR.
24. 1891. MITCHELL CO. N.C.
SCALE. 1" = 200' DATE. DEC. 24. 1957.
N
600' South
Lick Ridge Mine.
stake.
600' North
iron stake
East 300'
East 300'
stake.
N23°E
600'
1926' M.E.S.
10" walnut.
S87°30'E
1189'
iron stake.
N5°E
264'
stake.
Hickory stump.
N89°30'W
1289'
The Beginning corner chestnut oak. Top of Lick Ridge.
branch.
N19°30'E
909'
S6°30'W
832'
stake.
N87°W
1050'
chestnut