DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4829

Application
- [x] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

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

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

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

Additional Folders:

Left Side

Folders No._____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

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 _____

RECEIVED SEP 11 1967 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 Grafton, State of New Hampshire, described as follows: 2/ A certain tract of land situated in Grafton in the County of Grafton and State of New Hampshire, bounded and described as follows: Being on the west side of the highway leading from Grafton Center to Springfield; bounded northerly by land formerly owned by George H. Cole and Susan A. Smith; easterly by land of Mrs. Harvey and land formerly owned by Dana Buckley and Sargent Heath; southerly by land formerly owned by Sargent Heath; westerly by land formerly owned by George H. Cole. Containing 100 acres, more or less.

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

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

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

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

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

None

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

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

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

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

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

Dated this _____ day of _____, 195__.

x Mildred S. Bealy		_____	[Address]
Morris F. Bealy		Grafton N. H.	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]

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

_____

[Corporate Seal]

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

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

RECEIVED SEP 11 1957 DMEA

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

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

Dated this 2 day of _____, 195__.

Wildred S. Braley			[Address]
Morris F. Braley		Grafton N. H.	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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

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[Corporate Seal]

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

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

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

Dated this _____ day of _____, 195__.

Signed: Mildred S. Braley	[Seal]	Grafton, N.C.	[Address]
Signed: Morris F. Braley	[Seal]	Grafton, N.H.	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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[Corporate Seal]

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

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

RECEIVED SEP 11 1957 DMEA

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_____

[Corporate Seal]

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

RECEIVED SEP 11 1957 D.M.E.A.

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)

John Phillips
Spruce Pine, N.C.

APPLICANT NOT TO USE THIS BLOCK

Docket Number: 4829

Date Received: 9/11/57

Government Participation %:

Region: V

Division Code: 600

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized: N.C.

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Guy Sparks	Spruce Pine, N.C.	Partner
Sam L. Phillips	Spruce Pine, N.C.	"
John Phillips	Spruce Pine, N.C.	"

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

Estimated Cost of Project: $ 9,650.00

LOCATION OF PROPERTY

Name	County	State
"United Mine"	Grafton	New Hampshire

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.

9-9-57
Dated

John Phillips
BY *(Signature)*

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) Miscellanepus. 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

M-F-103 (Continuation Sheet)

1. (a) Description on Lease.

   (b) Prospect will be known as United Mine Prospect.

   (c) Lessee

   (d) No Lien.

2. (a) There is very extensive workings at this mine, and a good quanity of ruby mica has been recovered.

   (b) Applicant has no interest in previous operations.

   (c) No records available.

   (d) This mine has a past record of producing great quanities of very good ruby mica.

   (e) Pegmatite vein.

   (f) The mine stopped operations because no one was buying the mica, and no one has been able to get a lease untill this time, we beleive from the looks of the old works that with further exploration work that good ruby mica will be recovered.

3. (a) Road access will have to be bulldozed out. Mr. Guy Sparks will meet DMEA representatives at Cannan, New Hampshire, and go with them to the mine which is located on the West side of the Highway leading from Grafton Center to Springfield .

   (b) Road access to be bulldozed, supplies, manpower, and equipment are available.

4. (a) We propose to bulldoze road access, and locate mine site, dewater and rehabilitate 80' of incline shaft, then deepen shaft 40' and drift with vein a distance of 100'.

   (b) 300 yds. of road access to be bulldozed.

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

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

6. Estimate of costs:

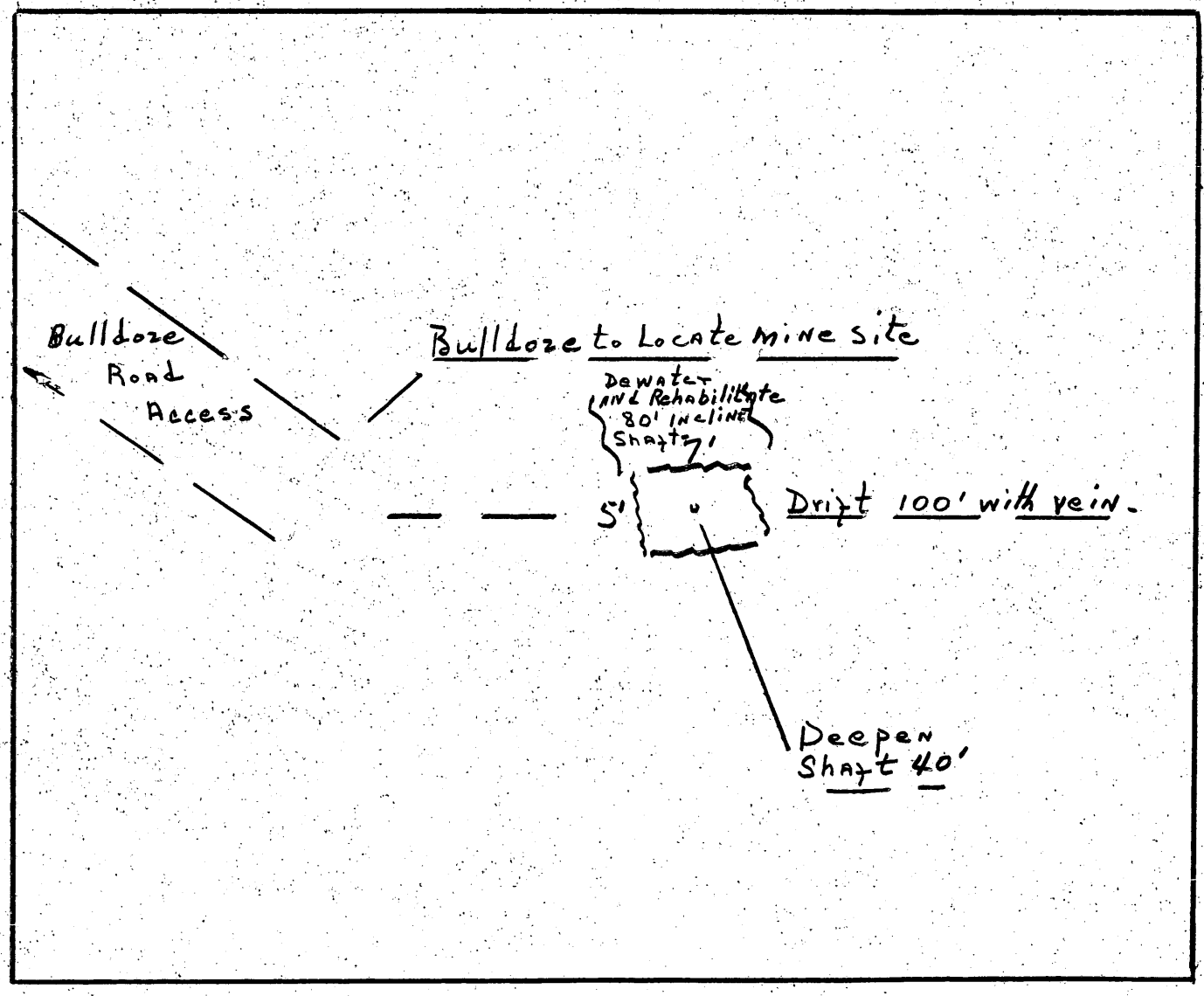
35 hrs. bulldozing @ $10.00 per hour	$ 350.00
Dewater and Rehabilitate 80' of Incline Shaft @ $30.00 Per foot	2400.00
40' Deepen Shaft @ $60.00 per foot	2400.00
100' Drift @ $45.00 per foot	4500.00
Total estimated cost of project:	$ 9650.00

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

   (b) Money and equipment.

United Mine Prospect

Grafton County, N. H.



AND IT IS FURTHER UNDERSTOOD AND AGREED That the Lessor may terminate this lease if the Lessee shall fail to pay the royalties at the times and in the manner specified herein, or if the Lessee shall fail to perform any of the other agreements in this lease, and that in such case notice sent by registered mail to said Lessee at Spruce Pine, North Carolina seven days before the date of termination shall be sufficient.

STATE OF NEW HAMPSHIRE
COUNTY OF MERRIMACK, ss.

On this the 26th day of August, 1957 before me, the undersigned officer, personally appeared Mildred S. Braley and Morris F. Braley, known to me to be the persons whose names are subscribed to the within instrument and acknowledged that they executed the same for the purposes therein contained.

In witness whereof I hereunto set my hand and official seal.

My Commission Expires Dec. 15, 1960

Donald W. Conking
Notary Public

MINING LEASE

State of ~~North Carolina~~ New Hampshire Merrimack County:

This indenture made this 26th day of August, 1957, ~~1957~~,

between Mildred S. Braley

of Grafton County and State of ~~North Carolina~~ New Hampshire as party of the first part, and known as lessor, and Guy Sparks, Sam Phillips and John Phillips, of Spruce Pine

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

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

A certain tract of land situated in Grafton in the County of Grafton and State of New Hampshire, bounded and described as follows: Being on the west side of the highway leading from Grafton Center to Springfield; bounded northerly by land formerly owned by George H. Cole and Susan A. Smith; easterly by land of Mrs. Harvey and land formerly owned by Dana Buckley and Sargent Heath; southerly by land formerly owned by Sargent Heath; westerly by land formerly owned by George H. Cole. Containing 100 acres, more or less.

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

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said part of the first part, or his or their heirs or assigns, a rental royalty of one-eighth(1/8) on the gross sales on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

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

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

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

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

Witness:

Donald W. Cushing
to M. S. B. and M. F. B.

Betty J. Grindstaff
to G. S., S. P. and J. P.

Mildred S. Braley (S)

Morris F. Braley (S)

Guy Sparks (S)

Sam Phillips (S)

John Phillips (S)

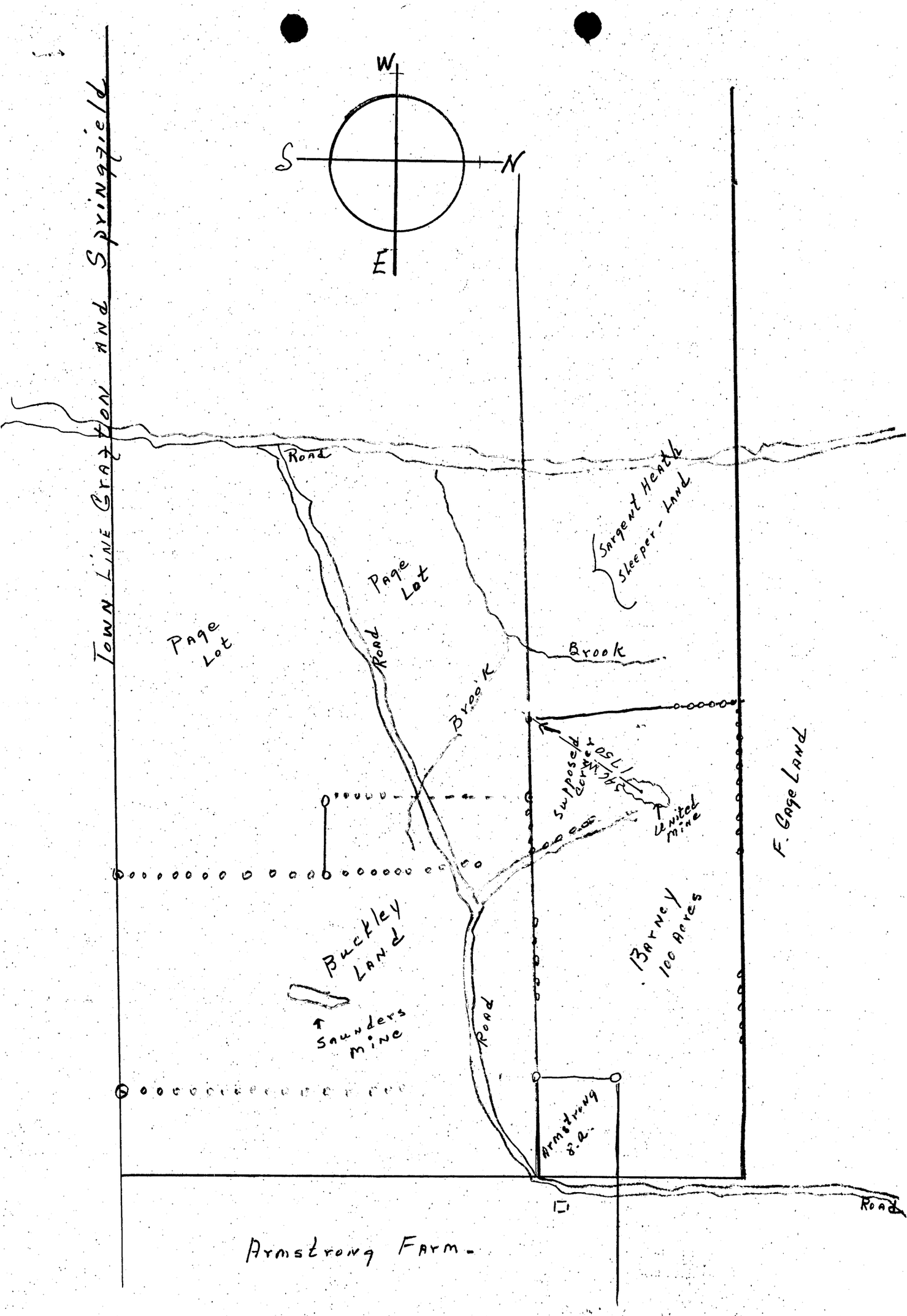
STATE OF NORTH CAROLINA
COUNTY OF MITCHELL

On this the 30 day of Aug, 1957 before me, the undersigned officer, personally appeared M.G. Sparks, John M. Phillips and Sam L. Phillips, known to me to be the persons whose names are subscribed to the within instrument and acknowledged that they executed the same for the purposes therein contained.

In witness whereof I hereunto set my hand and official seal.

Notary Public Leeris Peterson

My Commission expires: 32858


W
S
N
E
Town Line Grafton and Springfield
Road
Page Lot
Page Lot
Road
Brook
Brook
Sargent Heath
Sleeper - Land
Brook
Supposed Lead Mine
United Mine
F. Gage Land
Barney
100 Acres
Buckley Land
Saunders Mine
Road
Armstrong S.A.
Road
Armstrong Farm.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/6	Anderson	600
11/14	Houk	600
11/15	Martin	130
11/15	Lamb	130
11/15	Williams	130
11/15	Johnson	110
"	Mittendorf	100
		220

NOV 18 1957

Mr. John Phillips

Spruce Pine, North Carolina

Re: Docket No. DMEA-4829-Mica
John Phillips, et al.
United Mine
Grafton County, New Hampshire

Dear Mr. Phillips:

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

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

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

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WCAnderson:gad 11/6/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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(12-56)

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Date	Surname	Code
11/6	Anderson	600
11/14	Houk	

November 6, 1957

Memorandum

To: Mr. C. O. Mittendorf, Administrator

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

Subject: Evaluation of application and field examination report
Docket No. DMEA-4829-Mica
John Phillips, et al.
United Mica Mine
Grafton County, New Hampshire

Denial of application is recommended.

Mica: Mica books produced in the past were hard, flat, and rum to ruby. Mica visible in old workings is of poorer grade.

Pegmatite: 280 feet long by 20 feet thick. Terminates at both ends on surface and reports indicate that it terminates down dip in the face of an incline. Zoned (4 zones), discordant to foliation of wall rock, which is a dark gray, medium-grained biotite gneiss. Very sparse, scattered books of mica found in place. Pegmatite consists of a 10 foot quartz core; one to six foot thick core-margin zone consisting of oligoclase, gray quartz and perthite; wall zone eight inches to three feet thick consisting of oligoclase, quartz, muscovite, apatite and biotite; and a one foot border zone consisting of oligoclase-andesine, quartz, and muscovite.

Old workings: Inclined shaft and stopes, extent not known, and mostly backfilled and filled with water.

Production: Largest production prior to 1920. Statistics not available. 21.13 tons valued at $775.00 per ton was sold to Colonial Mica during 1942, 1943, and part of 1944.

Method of exploration:

Applicants proposed:

35 hours bulldozing @ $10/hr.	$350.00
80 feet of shaft rehabilitation @ $30/ft.	2400.00
40 feet of additional new shaft @ $60/ft.	2400.00
100 feet of drift @ $45/ft.	4500.00
Total amount requested	$9650.00

Comments: While applicant believed good grade mica existed below old workings, ~~they~~ he admitted that a former owner reported that pegmatite had narrowed to six feet and contained no mica. No minable mica was seen by the examiners in any of the old workings. While the United Mine has a record of strategic mica production, it appears that it is a worked out mine. Unfavorable situation for further exploration because of rapidly pinching out of pegmatite in lower levels.

Recommendations: Because the probability that a significant discovery of strategic mica is remote, the Field Team recommends denial of the application. The Division of Nonmetallic Minerals and the Commodity Members of the Bureau of Mines and the Geological Survey concur.

Walter C. Anderson

Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:gad 11/6/57
Copy to: Admr. R. File
Mr. Houk

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

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Memorandum November 12, 1957

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

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

Subject: Review of Field Examination report, DMEA 4829 (mica), J. Phillips, S. Phillips, and G. Sparks, United Mica mine, Grafton County, New Hampshire

The examining team report that an exploration project on the applicant's property would not be likely to result in the discovery of significant amounts of strategic-grade mica.

The field examiners as well as other geologists in the Geological Survey have observed that the potential mica zone, a zoned pegmatite, pinches down rapidly, both laterally along strike and with depth downdip. The examiners believe that if the applicant's proposed project of mine rehabilitation, shaft sinking, and drifting were undertaken that at best only a few tons of mica bearing rock would be found.

The property appears unfavorable for further exploration on the basis of being depleted of mica reserves by previous mining and pinching out of the mica-bearing pegmatite. I agree with the advice of the examiners that the application be denied on the principal grounds that the work would probably not result in a worthwhile discovery.

T. H. Kiilsgaard

T. H. Kiilsgaard

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

October 29, 1957

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Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4820 (mica)

Applicant: John Phillips, Sam L. Phillips, and Guy Sparks

Name and Location of Property: United Mica Mine, Grafton County, N. H.

Date of Field Team Report: 10/23/57

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 10/28/57

Field Team Recommendation: Recommend denial of application

Comments:

1. This is an old mine, shut down for over 10 years, now partly flooded.

2. Existing geologic reports indicate the pegmatite pinches out shortly beyond old working at each end and with depth.

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

Recommendation:

I concur with the recommendation of the field team for denial of the application.

W. F. Dietrich

W. F. Dietrich

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

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10/29	C	220
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October 23, 1957

Memorandum

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

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

Subject: Field Examination Report - DMEA-4829 (Mica)
John Phillips, Sam L. Phillips and Guy Sparks
United Mica Mine, Grafton County, New Hampshire

Enclosed are the original and two copies of the Field Examination report on the subject application.

We agree with the Examiners' findings and recommend denial of the application.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 3

Reviewed by
DMEA OPERATING COMMITTEE
10-28-57
(date)

FIELD TEAM REPORT ON EXAMINATION OF PROPERTY

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DMEA
RECEIVED OCT 28 1957

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		220

by

W. P. Williams and H. L. Burmeister 1/

DMEA Docket No. 4829 (Mica)
John Phillips, Sam L. Phillips and
Guy Sparks (a partnership)
all of Spruce Pine, North Carolina
United Mica Mine, Grafton County, N. H.

INTRODUCTION AND SUMMARY

The applicant, a partnership composed of John Phillips, Sam L. Phillips, and Guy Sparks, all of Spruce Pine, North Carolina, has applied for DMEA assistance in exploring for mica deposits at the old United Mine near Grafton, New Hampshire.

The property was examined on September 24, 1957, by an examining team composed of H. L. Burmeister, U. S. Bureau of Mines, and W. P. Williams, U. S. Geological Survey. The examining team was accompanied in the field by Mr. Guy Sparks, one of the applicant partners.

Mr. Sparks has little personal knowledge of the property but many times states that all the partners were certain that quantities of good grade mica could be obtained below the present workings. This expression was each time followed by the statement that Mr. A. W. Bennett a former owner and operator had told him that the pegmatite was six feet wide in the lowest working but contained

1/ W.P. Williams, Geologist, U. S. Geological Survey
H.L. Burmeister, Engineer, U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
10-28-57
(date)

no mica. The mine has not been operated for over 10 years.

NAME AND LOCATION OF PROPERTY

This property is known as the United Mica Mine and is located in the southeastern corner of Grafton County, New Hampshire, (Fig. 1). The property is reached from the village of Grafton on U. S. Route 4 by proceeding southward for approximately 2-1/4 miles to a dead end at Robinsons Corner. At this point turn right or northwest and continue for 2 miles to a road entering from the left. Follow this road southwestward for a distance of 5/8 miles to a fork and follow the right hand fork for 1/2 mile to the mine workings. The roads are partially graveled and are kept in year round condition for a distance of 4 miles from Grafton; the balance must be kept up by miners.

APPLICANT'S PROPERTY RIGHTS

This property containing approximately 100 acrea is owned by Mildred S. and Morris F. Braley and is held by the applicants under a 5 year mining lease, dated August 26, 1957. The first line of the lease erroneously locates the property in Merrimack County, the actual county of Grafton being later stated in the boundary description. The applicants have had long experience in making these applications but this one included neither a property map nor were "Consent to Lien" forms executed. Correction of these

two omissions was not attempted, for the reason that denial of the application is being recommended.

DESCRIPTION OF PROPERTY

The lip of the old mine workings lie approximately 50 feet below the level of the road. The southern workings, site 1, figure 2, now appear roomlike with the back being about 10 feet above the waste backfill with little mica visible in the back or walls. The openings now below the surface at site 2, figure 2, area have been made on the dip and are approximately 10 feet wide normal to the dip. In one place in this area a small amount of mica is seen in an inacessible surface pillar. It was not possible to determine the quality. This opening has also been backfilled to within about 10 feet of the 10 foot thick surface pillar. At site 3, figure 2, is found a cavelike opening about 25 feet wide longitudinally and 20 feet wide normal to the floor of the inclined shaft. The shaft is full of water and backfilled waste to a point 25 feet below the surface brow and 65 feet on the incline above the bottom of the shaft. From the northeast wall of the main site 3 opening, a wide drift has been advanced about 45 feet northeasterly on the strike. The portal of the drift is about 15 feet above the water level in the shaft. Part of the quartz core as well as both the hangingwall and footwall mica zones were removed in driving this drift. No mica is visible in the walls or in the face of the drift. It is probable that the drift floor is only a

thin horizontal pillar as indicated on the ground and also in Fig. 2.

AVAILABILITY OF MANPOWER, SUPPLIES, WATER, ETC.

Equipment and supplies necessary for mining this deposit may be obtained at nearby Plymouth, Franklin, or Keene, New Hampshire. The property is on a ridge and the only available water is that which the mine workings make. No wage scale applies in this area and it is understood that men from North Carolina would be used in any operation. It would be necessary to use gasoline or diesel power at this property.

APPLICANT'S PROPOSAL

The applicant proposes to bulldoze an access road to connect the present road with the working area in site 3, figure 2. The proposal also includes unwatering and removing the backfill waste from approximately 60 feet of actual inclined shaft and 20 feet of inclined floor in the large opening above. Upon completion of this rehabilitation the applicant proposes to deepen the shaft 40 feet and then drift both northerly and southerly on the pegmatite from the new shaft bottom. The applicant estimates that the proposed project would cost a total of $9,650. A discussion of costs was not entered into with the applicant, for the reason that denial of the application is being recommended.

It is evident, however, that 16 hours of bulldozing would have been sufficient, rather than the 35 hours requested. The requested funds for dewatering and rehabilitating the old shaft is excessive by at least $12.00 per foot. Shaft sinking costs in this case should not exceed $45.00 per foot and $35.00 per foot would be adequate for the drifting requested.

October, 1957

~~H. L. Barmeister~~

GEOLOGY

The geologic setting of the United mine is described by E. N. Cameron and others in Geological Survey Professional Paper 255, 1954, pp. 253-255. The property was discussed with D. M. Larrabee, co-author of Professional Paper 255. Some of the descriptions that follow, both of the mine and of the local geology, are taken from that paper.

The United pegmatite is about 280 feet long and as much as 20 feet thick. It is an irregular lens that strikes about N.40°E. and dips 30° - 40° SE. The pegmatite terminates at both ends on surface. The earlier geologic mappers state that the pegmatite also terminates down-dip in the face of the incline. The examining team could not completely check the down-dip termination because of water and waste backfill. No geologic evidence could be found, however, that indicated such a termination was not present.

The pegmatite contains four zones. The border zone, 1 to 4 inches thick, contains mottled red and green oligoclase-andesine, quartz, and muscovite. The wall zone, 8 inches to 3 feet thick, contains white oligoclase, gray quartz, sheet muscovite, apatite, and biotite. The core-margin zone, 1 to 6 feet thick, consists of white oligoclase, gray quartz, and perthite.

The core consists of granular milky quartz and is present only in the thicker part of the pegmatite. The core has a maximum thickness of 10 feet.

Most of the mica was produced from the wall zone; and that part of the wall zone near the quartz core produced more muscovite than elsewhere. The muscovite books were arranged roughly normal to the wall. The books were hard, flat, and rum to ruby.

The United pegmatite is enclosed by the biotitic Bethlehem gneiss of Devonian (?) age which strikes N.20°W. and dips 45° - 50°E. The pegmatite is discordant to the foliation of the wall rock, but the gneiss is in sharp contact with the pegmatite. The upper contact of the pegmatite is very irregular, and many offshoots from the main body project into the wall rock. The footwall contact is regular and has a uniform eastward dip.

At site 1, figure 2, the enclosing rock is dark gray, medium-grained biotitic gneiss. Very sparse, scattered books of muscovite may still be found locally in place. Maximum size of the books is about 4 inches in diameter and about 4 inches thick.

At site 2, figure 2, an old stope breaks through to surface. The pegmatite here reaches a maximum thickness of 3 to 4 feet.

At site 3, figure 2, the massive white, milky quartz core is exposed in the old inclined shaft.

Site 4, figure 2, is the face of an old drift which was driven along the plunge of the pegmatite. At the face the pegmatite is only about 4 feet thick and appears to be thinning down-dip.

Some scattered scrap mica in small flakes remains in the walls. No large mica sheets were found in the drift.

PRODUCTION AND RESERVES

The longest period of operation of the mine was prior to 1920, when it was worked by the United Mica Co. of Grafton Center, New Hampshire. It was operated for a short time in 1936-37 by A. W. Bennett of Canaan, New Hampshire. The mine was purchased from Bennett by the New Hampshire United Mining Co., of Andover, New Hampshire, and was operated by that company from August 1943 to July 1944. Most of the mica-bearing rock was removed from the mine prior to 1920. The yield of mica from rock moved during 1943-44 was low.

At present there is no minable mica in sight in any of the old workings. Much backfill and debris is now in the mine. Geological Survey geologists who mapped the mine when it was open and accessible say that the pegmatite thins abruptly downdip, so probably only a very small tonnage of mica-bearing rock remains in the pegmatite body.

Production figures for the United mine available to the examining team are fragmentary. The applicant knows little of the hostory of the mine and had no production figures. No figures could be found for the productive period prior to 1920. The following figures were found in commodity files of the Geological Survey.

While incomplete they offer some clue as to the former type and scope of operation at the United mine.

Total production mine run - 21.13 tons *July 1,1942 to Feb.16,1944

Ratio of mica to rock removed - 1 to 63 (poor)

Value of mica per ton mine run - $775 (estimated)

Percentage of sheet - 6%

Percentage of scrap - 84% (estimated)

Percentage of washer - 10% "

* sold to Colonial Mica Corp.

CONCLUSIONS AND RECOMMENDATIONS

The United mine in the past has produced strategic grade mica. Today the property has every appearance of a worked out mine. The United pegmatite thins and pinches out on surface a short distance along strike beyond the old workings. Down-dip, along the old inclined shaft, the pegmatite thins rapidly; and at the face of an old drift the thickness of the pegmatite and size and grade of the mica is reduced to the extent that it is obvious that economic mining could not be pursued from that part of the mine. The rapid pinching out of the pegmatite in the lower parts of the mine makes a very unfavorable situation for further exploration. If the applicant's proposed project of mine rehabilitation, shaft sinking, and drifting were undertaken, it is the opinion of the examining team that at best only a few tons

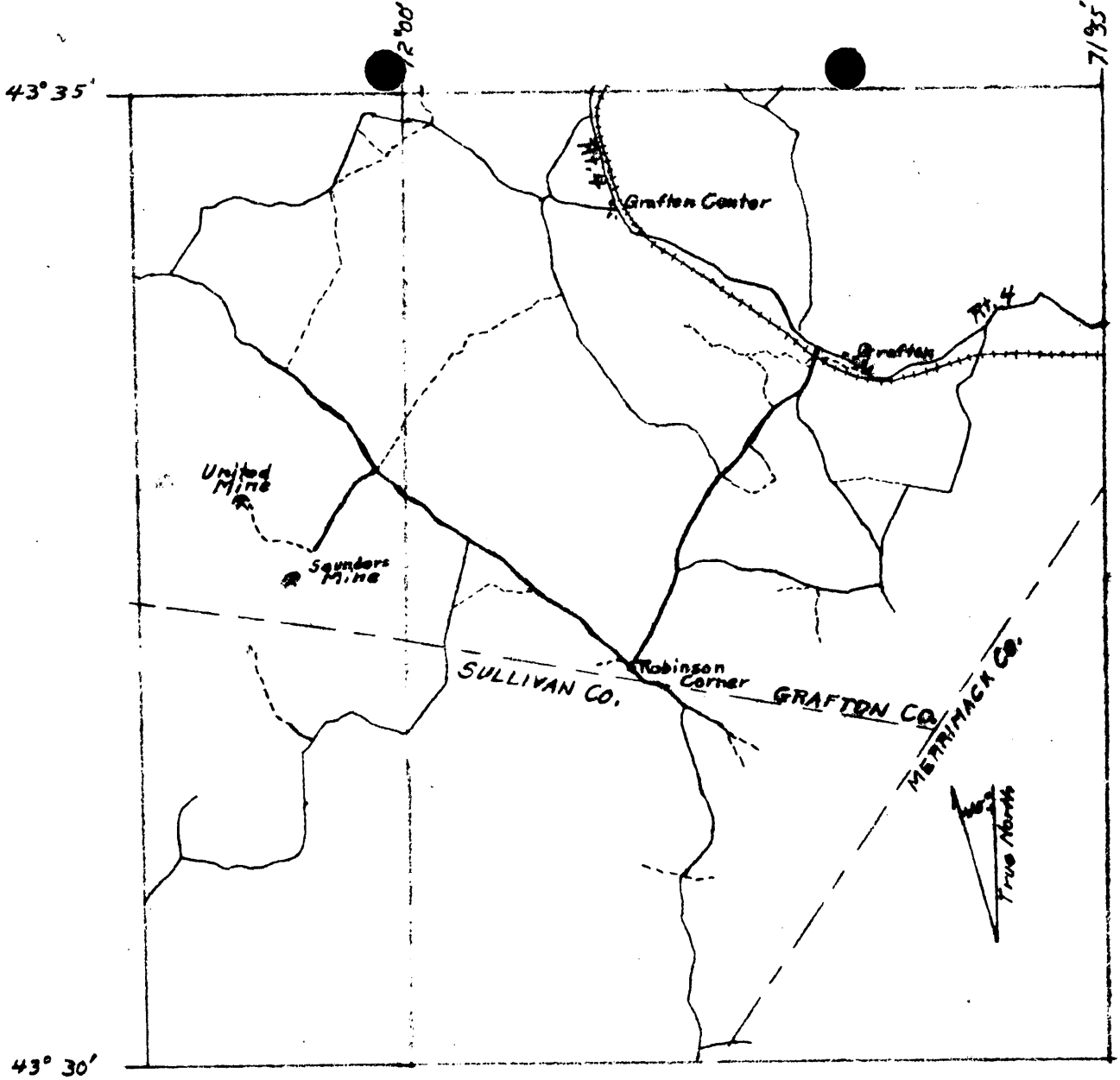
of mica-bearing rock would be found.

The examining team recommends denial of the application on the principal grounds that a significant discovery of strategic mica would probably not result from further exploration of the property.

H. L. Burmeister

W. P. Williams

October, 1957



DMEA 4829

UNITED MINE

GRAFTON COUNTY, N.H.

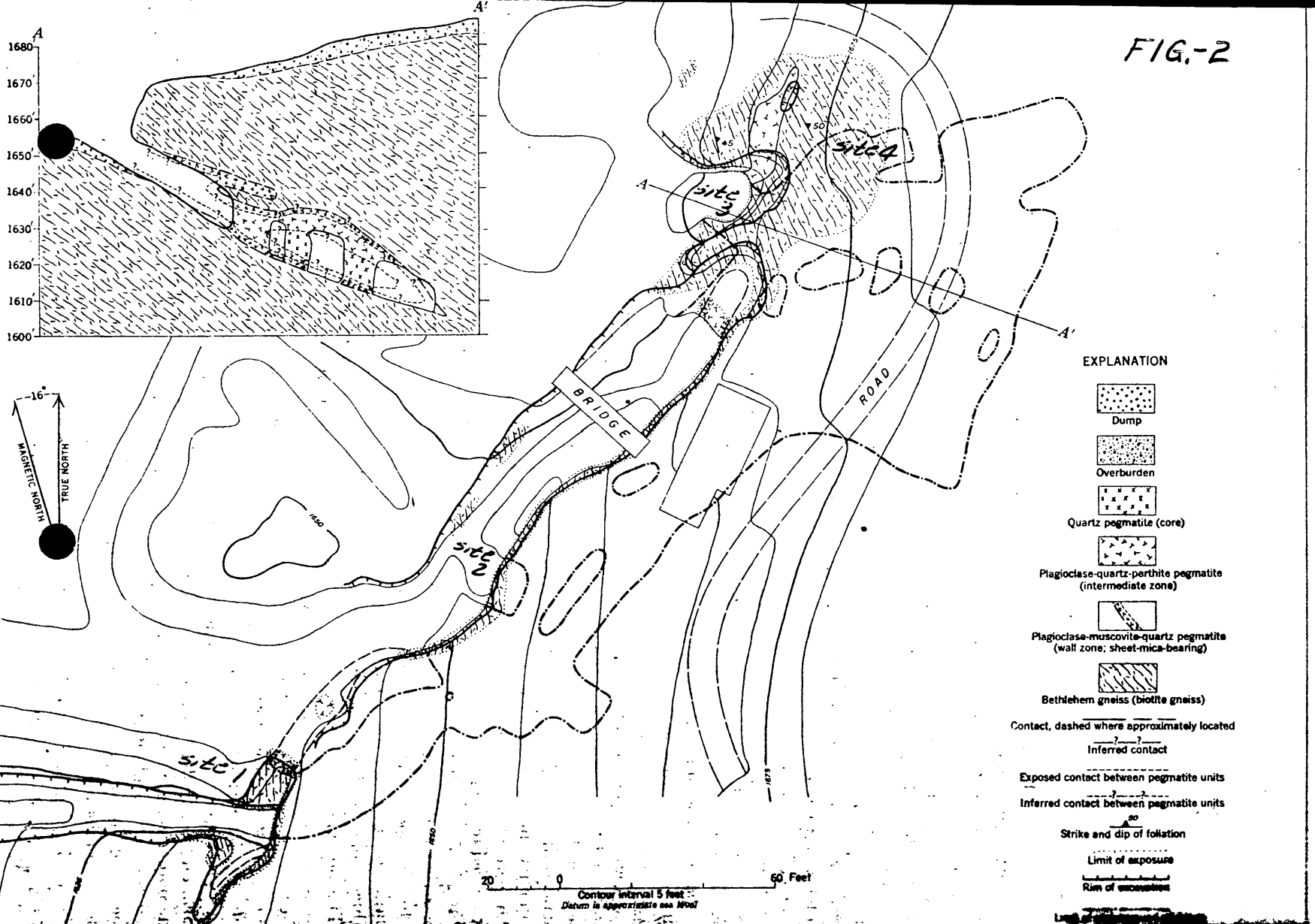
USGS. MASCOMA and CARDIGAN, N.H. QUADS.

0 miles 1

Sept. 1957

FIG.-1

FIG.-2


A
A'
1680
1670'
1660'
1650'
1640'
1630'
1620'
1610'
1600'
16°
MAGNETIC NORTH
TRUE NORTH
BRIDGE
ROAD
site 1
site 2
site 3
site 4
1650
1675
EXPLANATION
Dump
Overburden
Quartz pegmatite (core)
Plagioclase-quartz-perthite pegmatite (intermediate zone)
Plagioclase-muscovite-quartz pegmatite (wall zone; sheet-mica-bearing)
Bethlehem gneiss (biotite gneiss)
Contact, dashed where approximately located
Inferred contact
Exposed contact between pegmatite units
Inferred contact between pegmatite units
Strike and dip of foliation
Limit of exposure
Rim of excavation
20
0
60 Feet
Contour interval 5 feet
Datum is approximate sea level

Spruce Pine, North Carolina
September 26, 1957

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

Dear Mr. Houk:

Enclosed you will find the book and page number for the United Mine Prospect in Grafton County, New Hampshire, DMEA #4829, deed is recorded in Book 797, at page 67.

Sincerely yours,

Sam L. Phillips

Sam L. Phillips

P/bjg

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"	Jorman	110
9/23	C	220
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SEP 20 1957

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

Re: Docket No. DMEA-4829-Mica
John Phillips, et al.
United Mine
Grafton County, New Hampshire

Dear Mr. Laurence:

We have received the subject application and studied the Geological Survey Professional Paper 255, Pegmatite Investigations 1942-1945, New England, Pages 253-255. We were somewhat reluctant to refer this to the field as we felt that the professional paper adequately portrayed the geologic picture. However, we do not know if any work has been done since 1945, nor whether the underground workings are accessible for examination. Tentative arrangements have been made to have Mr. Burmeister and Mr. Williams make the examination on their return from the Vermont Copper Property.

Copies of memoranda dated September 13 and 20, 1957, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed. The extra copy of the application for the use of the Field Team is being delivered to Mr. Williams.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

P. F. Yopes
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

Enclosures 4

LGHouk:gad 9/20/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

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SEP 20 1957

Mr. John Phillips, et al.

Spruce Pine, North Carolina

Re: Docket No. DMEA-4829-Mica
John Phillips, et al.
United Mine
Grafton County, New Hampshire

Dear Mr. Phillips:

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.

If an examination is to be made, Mr. Guy Sparks will be notified at Cannan, New Hampshire.

Sincerely yours,

Frank E. Johnson
(Eyes)
ACTING Administrator

LGHouk:gad 9/20/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

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

September 20, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4829 (mica)

Applicant: Guy Sparks, Sam L. Phillips, and John Phillips (partners)

Name and Location of Property: United Mine, Grafton County, New Hampshire

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 9/12/57

Comments:

1. Applicants state this is an old mine from which a great quantity of very good ruby mica has been recovered.

2. Applicants wish assistance in bulldozing access road, rehabilitating 80 feet of inclined shaft, deepening shaft 40 feet and drifting 100 feet at an estimated cost of $9,650.

3. Although it would be desirable to have more information it appears that an examination by a field team is warranted.

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

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IN REPLY REFER TO:

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

September 13, 1957
Re: DMEA 48269
Guy Sparks, S. L. Phillips, John Phillips
United Mine
Grafton County, New Hampshire
$9,650.00 - Mica

Memorandum

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

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

Subject: Review of application

The applicants request assistance in rehabilitating an 80-foot shaft, sinking an additional 40 feet and drifting 100 feet.

Just why experienced operators would attempt to revive the old United Mine is not apparent.

U. S. Geological Survey Professional Paper 255, 1954, Pegmatite Investigations in New England, describes a United mine in Grafton, pg. 253-255. A map of the mine workings indicates the mine was worked from an open cut with some underhand stoping, perhaps from an incline.

Among other things the report says:-

"The pegmatite ends in the southeast corner of the crosscut trench and a short distance beyond the north surface workings. It also terminates down dip both in the northeast end of the underground workings and in the face of the incline. ..... The United pegmatite yielded large amounts of muscovite prior to 1920, when most of the mica-bearing rock was removed from the mine. The yield of mica from rock removed during 1943-44 was low. Both ends of the pegmatite pinch at the surface a short distance beyond the workings, and the pegmatite ends down dip in the northeast face of the underground working and in the incline. The pegmatite between the points of pinching has a maximum thickness of 5 feet and seems to thin abruptly eastward (down dip). If the thinning is real, only a very small tonnage of mica-bearing pegmatite remains east of the working face. The lower workings contain much backfill, and future operation of the mine would require the removal of some of it. Profitable operation of the mine under economic conditions comparable to those of 1943-44 appears unlikely."

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

Spruce Pine, North Carolina
September 9, 1957

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

Dear Mr. Houk:

I do not have the book and page number of the property on which the United Mine Prospect is located as recorded in Grafton County, New Hampshire. I have written for this information and I will forward it to you just as soon as I can.

Sincerely yours,

John Phillips

P/bj

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

September 12, 1957

Mr. John Phillips

Spruce Pine, N. C.

Subject: DMEA 4829

Dear Mr. Phillips,

Your application for exploration assistance, dated September 9, 1957 submitted to our office at Washington, D.C. has been assigned Docket Number 4829 and referred to the Division of Nonmetallic Minerals in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:
Region V