DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4928

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- [ ] Withdrawn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:

75%

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
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] 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

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

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DMEA
RECEIVED JAN 29 1958

DATE	INITIALS	CODE

January 27, 1958

Memorandum

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

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

Subject: Application from Ramey Beam, et al.
Self Mine, Gaston County, North Carolina (Mica)

Enclosed are the original and two copies of an application received at this office. We are keeping the fourth copy. The application is accompanied by a copy of the lease and a map of the present workings. Consent to Lien forms were not submitted.

Please note that this is the same property which was explored under Docket No. DMEA-2377, Contract No. Idm-E311. Also, please refer to Mr. Beck's latest semi-annual report on DMEA-2377, for description of recent work at this property. The Applicants have not submitted all the information available on work done since termination of Contract No. Idm-E311, and Mr. Feitler will ask them to submit this information as a supplement to the application, when he goes to Spruce Pine next week.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 5

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

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)

SELF-HUSKINS MINE
Ramey Beam, Frank W. Phillips, Sam W. Thompson
Spruce Pine, N. C.

RECEIVED JAN 29 1958 D.M.E.A.

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4928
Date Received: 1/29/58
Government Participation %:
Region: V
Division Code: 600

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Ramey Beam	Route 2, Spruce Pine, N. C.	partner
Frank W. Phillips	Spruce Pine, N. C.	partner
Sam W. Thompson	Spruce Pine, N. C.	partner

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

Estimated Cost of Project: $ $7300.00

LOCATION OF PROPERTY

Name	County	State
Self Mine	Gaston	N. C.

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "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.

1-1-58
Dated

RECEIVED JAN 24 1958 U. S. Geological Survey Conservation Division Denver, Colorado

Frank W. 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) 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, Revised.

(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. 25960

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SELF-HUSKINS MINE CO.

SELF MINE

1. (a) See enclosed map
   (b) Self Mica Mine
   (c) Lessee
   (d) DMEA loan No. 2377

2. (a) This mine was opened during Colonial Mica Program by ~~Hendrix and Kennedy and~~ was worked under DMEA loan No. 2377 by F. O. Phillips and others. Was worked later by Ed Ellis and others.
   (b) We began our operations November 1956 by installing and putting into operation water pumps. Our bulldozing and panning began in January 1957 and we have worked periodically since then as weather and other mining operations would permit.
   (c) Mica sold prior to this program not known. During this program:
      Piedmont Minerals -----$5472.02
      Self Mining Co. -------$11,108.79
      Self Enterprize -------$13,904.53
   (d) Quanity of mica left in bottom of mine not known, but grades at this depth very good. Also core drill holes under DMEA Contract No. I DM-E311 shows vein to be dipping in N W direction which is under a high bank that we now have.
   (e) Vein as has been worked so far is continous with thickness varying from 2 feet to eight feet.
   (f) We have worked this mine with bulldozer, pan and crane and know the mica vein is still in the bottom or our workings.
   (g) Maps enclosed.

3. (a) Frank W. Phillips, Spruce Pine, N. C. Mine location known to DMEA field team.
   (b) Spruce Pine, N. C. 80 miles from mine.

4. (a) Dip out approximately 15 feet of mud which has been washed in to the bottom or our open pit by continous rain. Sink shaft 60 feet and cross cut 100 feet.
   (b) Present road to mine is adequate.
   (c) All work will begin within ten days and be completed within nine months.

5. We have more than fifteen years experience in mining.

6. $800.00 crane work,
   60 feet shaft at $50.00 foot ------ $3000.00
   100 feet crosscutting at $35.00 foot ------ $3500.00 Total Est. cost - $7300.00
   (a) None
   (b through g included in cost above)

7. (a) Yes
   (b) By use of our equipment

STATE OF NORTH CAROLINA
COUNTY OF GASTON

MINING LEASE

OFFICE COPY
DMEA
RECEIVED
JAN 29 1958
CODE

THIS INDENTURE, made this 1st day of March, 1957 by and between E. Ray Self and wife, Mildred Self of GastonCCounty, North Carolina, parties of the first part, and known as lessors; and Frank W. Phillips, Sam W. Thompson, Ramey Beam of Mitchell County, North Carolina, parties of the second part and known as lessees.

WITNESSETH

That the parties of the first part, in consideration of One Dollar in hand received and hereby acknowledged by the lessors, and in consideration of the agreements hereinafter contained, on the party of the second part to be performed, hereby bargain, lease and grant to the party of the second part and their assigns, for the period of two years from the date of this agreement, the following described real property, for the purpose of mining mica, in the County and State aforesaid:

BEGINNING on E. R. Self's and Beam's white oak corner, thence running S 23-15 W to a stake, thence S 66-45 E to a stake, thence N 23-15 E to a stake, thence N 66-45 W to the beginning. Distances on each of the four calls to be 500 feet.

To have and hold the said lands unto them for the purpose of mining mica only for the aforesaid period of two years in compliance eith the conditions of this instrument, for the prupose and with the right to dig, search for, explore for, obtain and remove mica from said premises and to conduct said operations to any extent that the said lessee may desire. And it is further agreed that the lessee is to have the right of was of ingress and egress to said mine and lands above described.

Is it likewise agreed that the lessee shall pay the lessors a royalty of 10% from all mica and other minerals, except feldspar and this royalty is to be 80¢ per long ton, (2240 lbs.), sold from the lands described above.

It is further agreed that the lessees shall pay Defense Minerals Exploration Administration the 5% from mica and the required percent from all other minerals that might be mined from the above lands. This percent to be paid to Defense Minerals Exploration Administration until they have been paid in full and satisfied.

All royalties shall be payable within ten (10) days after final payment is made to the lessees, and lessees shall furnish to the lessors a copy of all sales documents.

It is further agreed that the said party of the second part may renew or extend this lease for additional periods of twoyears, provided they have complied with the conditions and stipulations of this lease during its two-year period.

It is further agreed that the said party of the second part will begin work on said premises within thirty (30) days from the date hereof and that in the event that at any time lessee shall cease to work said premises for as long as thirty (30) consecutive days, said lessors may at their option terminate this lease.

In Testimony Whereof the said parties hereto have hereunto set their hands and seals this the day and year first above written.

E Ray Self (SEAL)
Mildred Self (SEAL)
Frank W. Phillips (SEAL)
R. Beam (SEAL)
Sam W. Thompson (SEAL)

NORTH CAROLINA

GASTON COUNTY

I, Kay N. Davis, Notary Public, hereby certify that E. Ray Self and wife Mildred Self personally appeared before me this date and acknowledged the due execution of the foregoing mining lease.

Witness my hand and notarial seal this the 17th day of January 1958

Kay N. Davis
Notary Public

My commission expires: 9-9-59

NORTH CAROLINA

MITCHELL COUNTY

I, Kenneth R. McKinney Notary Public, hereby certify that Frank W. Phillips, Sam W. Thompson and J. R. Beam personally appeared before me this date and acknowledged the due execution of the foregoing mining lease.

Witness my hand and notarial seal this the 21st day of January 1958

Kenneth R. McKinney
Notary Public

My commission expires: 8/2/59

FILE COPY
DMEA
RECEIVED JAN 23 1958
DATE INITIALS CODE

DMEA Form 7
(12-56)

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Date	Surname	Code
5/1	Hewson	600
6/1	Hook	

April 28, 1958

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4928

Commodity: Mica

Applicant: Ramey Beam, Frank W. Phillips, and Sam W. Thompson, a partnership
Spruce Pine, North Carolina

Property: Known as the Self Mine, E. Roy Self and wife Mildred Self property and consisting of a tract of land 500 feet by 500 feet situated 4.3 miles southeast of Cherryville, Gaston County, North Carolina. This property was explored and certified under Docket No. DMEA-2377, Contract No. Idm-E311, by the Piedmont Minerals, Inc. The Government contributed $6,277.50 to the cost of this work and $1,732.63 has been repaid in royalties. The tract of land under this contract contained 18 acres.

Property Rights: Applicants' have lease dated March 1957, from E. Roy Self and wife Mildred Self for a two year period.

No Consent to Lien and Subordination Agreement was furnished.

Application dated: January 1, 1958

Application amount: $7,300.00

Received in Division: January 29, 1958

Referred to Region V: February 28, 1958

Property examined: March 20, 1958

Field Team Report received in Division: April 21, 1958

Work Proposed:

Consists of sinking a 60 foot shaft and 100 feet of drifting or crosscutting from the shaft to further explore a pegmatite that was explored under Contract No. Idm-E311. Work completed included a 50 foot shaft that caved and was lost because of heavy ground. Since the contract was terminated an open pit was excavated to a depth of 90 feet that exposed a pegmatite more than 160 feet long and 20 to 40 feet wide. The proposed work is from the bottom of the pit.

Estimated Cost:

Crane work preparing shaft site	$800.00	
60 feet of shaft @ $50/ft.	3,000.00	
100 feet of drift or crosscut @ $35/ft.	3,500.00	
Estimated total cost of the project		$7,300.00
Government participation @ 75%		5,475.00

Field Team Report - dated April 14, 1958 - by Frank G. Lesure, USGS, and Stanley A. Feitler, USBM.

A pegmatite body more than 160 feet long and 20 to 40 feet wide associated with a granite intrusion in hornblende and biotite-muscovite gneiss is exposed in the bottom of a deep open cut. The pegmatite at the northwest end of the cut has a hanging wall zone about 4 feet thick composed of coarse-grained plagioclase, quartz, and muscovite, a coarse massive quartz core 8 feet thick and a footwall zone of coarse pegmatite with irregular lenticular masses of fine-grained granite. The pegmatite at the southeast end of the cut consists of coarse-grained plagioclase, quartz and muscovite without a continuous quartz core. Muscovite is abundant throughout the pegmatite at the southeast end of the cut and also along the hanging wall east of the proposed shaft.

About 50 tons of muscovite in books up to 12 inches were recovered in the open pit. Mica production from 1952 to December, 1957, was 103,074.86 pounds worth$35,116.07 and a subsequent production east of the proposed shaft after the application was filed of 2,640 pounds sold for $600/ton. A large mass of granite, 20 to 40 feet wide, apparently divides the pegmatite at depth. Core drill hole data and structural mapping indicate that the pegmatite and associated granite is plunging to the northwest. The rocks above the bottom of the pit are deeply weathered but solid rock is exposed in the pit bottom.

We recommend a 60 foot shaft in the hangingwall pegmatite zone from the bottom of the shaft and 150 feet of level work from the shaft. The level work to include about 80 feet of drifting along the hangingwall zone, 20 to 40 feet of crosscut to the footwall zone and 30 to 50 feet of drifting in the footwall zone. The total estimated cost of the work is $8,369.75.

Commodity Members Comments:

USGS by T. H. Kiilsgaard, dated April 24, 1958.

"The present applicant has removed the overburden from the pegmatite zone by open cut mining methods. He is now in a position to collar a shaft on hard rock and is reported to be

adequately equipped to handle the expected water flow. It therefore would appear that he is in a position to do the work proposed in the previous contract. As the target seemingly is as good today as it was when the original contract was written, it seems logical that DMEA enter into a project to explore that target.

"I concur with the Field Team and recommend that a contract be approved."

USBM by Donald R. Irving, dated April 29, 1958.

"Strategic mica is visible, and some was recovered during recent bulldoze work.

"This deposit appears to have possibilities for the development of strategic mica.

"I concur with the field team in recommending that exploration assistance be granted."

Conclusions:

The cross section below the pit level at the recommended shaft site and along diamond drill hole No. 1 below the pit level 5 and 20 feet, respectively, show a pegmatite about 5 feet wide on both the hanging and footwall sides separated by about 15 feet of granite. Diamond Drill Hole No. 2, 60 to 80 feet below the pit level, shows no pegmatite. Diamond Drill Hole No. 3 about 70 feet southeast of Diamond Drill Hole No. 3 shows no pegmatite along the projection of the pegmatite at about the same elevation as Diamond Drill Hole No. 1. West from Diamond Drill Hole No. 1, Diamond Drill Hole No. 4 shows a pegmatite about 15 feet wide with a quartz core about 5 feet thick in the hanging wall zone 7 feet below the pit level and in the footwall zone a pegmatite about 10 feet wide 40 feet below the pit level. The footwall and hanging wall zones are separated by about 25 feet of granite.

Information obtained in Diamond Drill Hole Nos. 1 and 2 indicate that the pegmatite at the recommended shaft site will pinch out before the shaft reaches the recommended 60 foot depth. Also, all the information indicates that the pegmatite is pinching both laterally and in depth.

A rough estimate indicates about 14,000 tons of pegmatite has been excavated from the pit and about $35,900.00 in mica value was recovered or a value of about $2.50/ton of pegmatite mined.

From our information it is doubtful that there will be an equal additional amount of pegmatite mined from this property. However, if the DMEA approved the program recommended by the Field Team and an equal amount of pegmatite is mined and the same quantity and quality of mica is recovered only about 27 percent of the Government's contribution would be repaid.

The pertinent points are summarized as follows:

(A) The pegmatite is apparently pinching laterally and in depth;

(B) Production history indicates that the original DMEA contribution will not be repaid if the exposed pegmatite is mined;

(C) If the recommended program is approved possibly 25 percent of the DMEA contribution may be repaid. The proposed shaft, drifting, and crosscutting are not justified by the drilling data and surface exposures.

DMEA contributed to the cost of exploring this pegmatite which resulted in the discovery and certification. The additional work contemplates additional exploration of the same pegmatite. Since the chances are poor that DMEA will be repaid its original contribution, I am not able to justify increasing this contribution to subsidize the development and mining of this pegmatite. Therefore, the application should be denied.

F. L. Knouse
Division of Nonmetallic Minerals

FLKnouse:gad 5/1/58
Copy to: Admr. R. File
Mr. Houk
Mr. Knouse

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/8	Knouse	600
5/8	Houk	600
5/9	Selfridge	130
5/9	Lamb	130
5/9	Mabel Kilsgaard	130
"	Johnson	210
"	Mittendorf	100
		220

600

MAY 12 1958

Mr. Frank W. Phillips

Spruce Pine, North Carolina

Re: Docket No. DMEA-4928-Mica
Ramey Beam, Frank W. Phillips
and Sam W. Thompson
Self Mine
Gaston County, North Carolina

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.

Previous work on this property under Docket No. DMEA-2377, Contract No. Idm-E311, disclosed strategic mica which served as a basis for a certification of discovery or development. The probability of disclosing additional significant reserves of mica by your proposed program is not sufficiently promising to justify further Government participation. Therefore, we regret to advise you 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

Administrator

FLKnouse:rsi 5/8/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Field Team, Region V
Mr. Houk
Mr. Knouse

8623

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

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DMEA
RECEIVED MAY 8 1958

DA		CODE
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5/8	Hrub	686
5/8	Knowle	600

May 6, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4928(mica) Ramey Beam, Frank W. Phillips and Sam W. Thompson. Self Mine, Gaston County, N.C.

Reference is made to your letter of April 28, concerning the Field Examination Report. If the report does not support the recommendations, in your opinion, then the application should be denied. The report contains all the information the Examiners could get at the site and from the files, and the recommendations are based largely on their judgment, after review and discussion with the Field Team and others of the Knoxville staff. We have no additional information to submit; if we had it we would not have withheld it from the report.

It will be recalled that the old, unsuccessful shaft was to the northwest of the proposed one, as the geology indicates a plunge to the northwest. Even though the pegmatite may bottom above drill hole no.2, it may reasonably be expected to extend deeper to the northwest. The proposed shaft site was spotted in firm ground, where the anchored cribbing is already in place, to avoid the difficulties which forced abandonment of the DMEA-2377 shaft, with the expectation that any drifting would be to the west rather than to the east.

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

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

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

April 29, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4928 (mica)

Applicant: Ramey Beam et al.

Name and Location of Property: Self Mine, Gaston County, N. C.

Date of Field Team Report: 4/15/58

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 4/21/58

Field Team Recommendation: Recommend DMEA assistance be granted.

Comments:

1. Under contract number Idm-E 311 (DMEA-2377) DMEA entered into a project to explore this prospect.
2. Difficulty in sinking a shaft resulted in the termination of the past contract before completion.
3. Applicants, on their own, have overcome caving difficulties by extensive bulldozing and have prepared ground for collaring a shaft.
4. Strategic mica is visible, and some was recovered during recent bulldoze work.
5. This deposit appears to have possibilities for the development of strategic mica.

Recommendation

I concur with the field team in recommending that exploration assistance be granted.

Donald R. Irving

Donald R. Irving

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/28	Knouse	600
4/28	Houk	600
4/28	[illegible]	130
"	Johnson	110
"	Hutchinson	100
4/28	[illegible]	220
		600

600

APR 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-4923-Mica
Ramey Beam, Frank W. Phillips
and Sam W. Thompson
Self Mine
Gaston County, North Carolina

Dear Mr. Laurence:

We do not think that the field examination report supports the recommendation for a contract at this mine.

A study of the drill hole data and other descriptive information indicates that the pegmatite is pinching laterally and bottoming. Also, the production records indicate that the value of mica recovered per ton of pegmatite mined was low, and the chances that an additional equal amount of pegmatite exists and will be mined from this property are poor.

The vertical section through the proposed shaft shows the pegmatite bottomed above diamond drill hole No. 2 - less than 60 feet below the pit level. Also, a part of the proposed drifting to the north and west would be very close to the property line.

Unless additional information can be furnished that will justify the work that you recommended we see no alternative but to deny the project. We will await your reply before taking formal action to deny the application.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

Approved:

JAMES PAONE (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

FLKnouse:gad 4/28/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

OFFICIAL FILE COPY
DMEA
RECEIVED APR 25 1958
4/25 C 220 600

IN REPLY REFER TO:

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

Memorandum

April 24, 1958

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

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

Subject: Review of Field Team Report, DMEA Docket 4928, Self Mine, (mica), Gaston County, North Carolina.

Under docket DMEA 2377, DMEA entered into a project to explore a pegmatite at the Self mine. This project was terminated short of completion, because of difficulties encountered in sinking the shaft in the soft and weathered ground. A total of 700 feet of drilling was drilled in four holes under this previous contract. In two of these holes pegmatite was encountered, and on the basis of these findings, the project was certified as a discovery.

The present applicant has removed the overburden from the pegmatite zone by open cut mining methods. He is now in a position to collar a shaft on hard rock and is reported to be adequately equipped to handle the expected water flow. It therefore would appear that he is in a position to do the work proposed in the previous contract. As the target seemingly is as good today as it was when the original contract was written, it seems logical that DMEA enter into a project to explore that target.

I concur with the Field Team and recommend that a contract be approved.

T. H. Kiilsgaard

T. H. Kiilsgaard

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

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DMEA
RECEIVED APR 17 1958

DATE	INITIALS	CODE
4/17	C	220
4/18	JB	130
4/21	C	220
4/21	JMC	600

April 15, 1958

Memorandum

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

From: Field Team, Region V, Knoxville, Tennessee

Subject: Field Examination Report, DMEA-4928 (Mica)
Ramey Beam, Frank W. Phillips, and Sam W. Thompson
Self Mine, Gaston County, North Carolina

Enclosed are the original and two copies of the subject examination report, and eight copies of the map submitted by the Applicants, for use if a contract is approved.

The target recommended for exploration is essentially the same as that in Contract No. Idm-E311 (DMEA-2377) which was terminated because of extreme difficulties encountered in shaft-sinking. Now that the Applicants, at their own expense, have apparently overcome the difficulties, the target again appears to be a good exploration possibility. We agree with the Field Examiners that the potential mica reserve in the block of ground to be explored is sufficient to justify the proposed work. It appears to be as good a possibility as it was in 1952, and therefore we recommend approval of a contract. Whether or not the work done since 1952 changes the picture so that this would not be considered exploration is a matter of policy and interpretation, beyond the proper scope of the Field Team.

Robert A. Laurence
Robert A. Laurence
Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
4-21-58
(date)

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

Field Team Rept

Enclosures 11

DMEA
RECEIVED APR 17 1958

DATE	INITIALS	CODE
4/21	JHB	130
		220

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT

REGION V

DMEA-4928, SELF MINE (Mica)
Gaston County, North Carolina

Frank G. Lesure, Geologist
U. S. Geological Survey

Stanley A. Feitler, Mining Engineer
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
4-21-58
(date)

April 14, 1958

DMEA FIELD EXAMINATION REPORT

DMEA-4928, SELF MINE (mica)
Gaston County, North Carolina

Applicants: Ramey Beam, F. W. Phillips, and S. W. Thompson
Spruce Pine, North Carolina

SUMMARY

Recent work has enlarged an old open cut in weathered rock down to hard rock making it possible to sink a shaft on a pegmatite body more than 160 feet long and 20 to 40 feet wide. About 50 tons of block muscovite was recovered during the open cut work. DMEA drilling and surface mapping indicate that the pegmatite plunges northwest. It is recommended that exploration assistance be granted.

INTRODUCTION

Location

The Self mine is 4.3 miles southeast of Cherryville in northern Gaston County, North Carolina. The mine can be reached by going south from Cherryville on North Carolina State Highway 274, turning right on Highway 216 and going 0.9 mile. Turn left on a gravel road and continue 1 mile to the E. R. Self house. The mine is a few hundred feet from the house and can be reached at all times by truck.

Examination

The examination of the Self mine was made on March 20, 1958, and lasted three hours. Mr. Ramey Beam and Mr. F. W. Phillips accompanied the examiners.

Past Operations

According to Griffitts and Olson (1953, Mica deposits of the southeast Piedmont, U. S. Geological Survey Prof. Paper 248-D, pp 251-253) the Self mine was opened in 1895. After a long period of idleness it was reopened in 1941 and was operated intermittently until 1945. Following

*Plus paid $1732.63

the DMEA-2377, Idm-E311 contract work the open cut was enlarged by drag line, pan, and bulldozer work by the Applicants and others. According to Wm. A. Beck, U. S. Bureau of Mines (semiannual report of certified project, DMEA-2377 (mica), December 20, 1957) the production from 1952 to December 1957 was 103,074.86 pounds of mica worth *$35,116.07. The Applicants report an additional 2650 pounds sold for $600 per ton since the filing of the application. Est 14 000 tons pay-mined - Prod. $35,900. mica $\frac{\$35,900}{14,000 \text{ tons}} = \$2.56/\text{ton}$

The open cut is now over 400 feet long and 200 feet wide. It is about 90 feet deep with 5 to 10 feet of mud and water in the bottom. The Applicants reached firm ground at the bottom of the cut and have anchored 5' x 7' cribbing of doubled 2 x 6's on the hanging wall of a pegmatite mass about 35 feet wide. Heavy spring rains have subsequently washed in mud from the sides of the cut around the base of this cribbing.

At the time of the examination, after a heavy rain, the Applicants had two pairs of small centrifugal pumps working in tandem to unwater the cut. There is a small bunk house on the property but no other buildings or equipment. Water and electricity are on the property.

GEOLOGY

A pegmatite body more than 160 feet long and 20 to 40 feet wide associated with a light gray granitic extrusion in hornblende gneiss and biotite-muscovite gneiss is exposed in the bottom of the deep open cut at the Self mine. At the northwest end of the cut this pegmatite has a hanging wall zone about 4 feet thick composed of coarse-grained plagioclase, quartz, and muscovite. There is a core of massive quartz 8 feet thick,

below the hanging wall zone and below this a footwall zone of coarse pegmatite with irregular lenticular masses of finer-grained granite. The pegmatite at the southeast end of the cut consists of medium- to coarse-grained plagioclase, quartz and muscovite with no continuous quartz core. Biotite is a common accessory mineral in the pegmatite.

About 50 tons of muscovite in books up to 12 inches were recovered in the open cut work. The Applicants report that the mica is most abundant along the foot wall in the bottom of the cut but this area was covered by mud. Muscovite is abundant throughout the pegmatite at the southeast end of the cut and also along the hanging wall at the northwest end. The Applicants report that subsequent to the examination 2640 pounds of muscovite were recovered along the hanging wall east of the proposed shaft site. The past sales indicate that the mica is of strategic quality.

The cut and surface of the Self mine have been changed greatly in the past few years. The locations of the DMEA drill holes are not known accurately because of the lack of definite tie points on the available maps. The maps and sections have been drawn using the best "fit" of all features on the maps of Griffitts and the Applicants.

The shape and attitude of the pegmatite mass are also difficult to determine. At the southeast end of the cut the pegmatite strikes N. 70° W. and dips steeply southwest, but at the northwest end the strike is nearly north and the dip steep to the west. The two cross sections drawn along the DMEA drill holes 1-2 and 4 indicate that the pegmatite steepend at depth and may dip northeast. A large mass of granite apparently divides the pegmatite at depth. Both the drill data and minor structures mapped at the surface indicate that the pegmatite and associated granite plunge to the northwest.

All of the rock above the bottom of the pit is deeply weathered and soft. A zone of deeply weathered hornblende gneiss at the west end of the cut contains striking color changes ranging from brown at the surface to green and gray at depth. This weathering is closely associated with a prominent N. 60° W. joint set and may continue deeper along the west side of the cut.

RECOMMENDATIONS

We recommend that exploration assistance be granted. Pegmatite exposed for over 100 feet in the bottom of this cut contains abundant strategic muscovite. The Applicants have deepened the open cut through the soft, wet, weathered material to solid rock. This work was not profitable, although mica recovered is reported to have paid one-half to two-thirds of the costs. The difficulties that prevented completion of DMEA-2377 have been eliminated and a shaft can now be sunk successfully. Because of the irregular shape of the pegmatite body and its indefinite relationship to limited sized masses of granite an exploration program is needed to establish the existence of reserves. The hanging wall and footwall zones of equal potential should be explored. These are 20 to 40 feet apart and a northwest plunge is indicated.

We recommend a 60-foot shaft through the anchored cribbing and 150 feet of level work from the shaft. The level work is to include about 80 feet of drift on the hanging wall, 20 to 40 feet of crosscut to the footwall, and 30 to 50 feet of drifting on footwall.

ESTIMATED COST

Construct:

Tool-hoist house	$75.00		
Powder magazine	25.00		
Cap magazine	15.00		
Total Construction			$115.00

Sink 60 feet of two compartment shaft
5 x 7 feet in cross section (40 shifts).
1.5/shift

Equipment Rental:

1 - Compressor @ $150/Mo.	$300.00	
1 - Hoist @ $50/Mo.	100.00	
1 - Rock drill with hose @ $40/Mo.	80.00	
1 - Sump pump @ $40/Mo.	80.00	
Total Equipment Rental		$560.00

Labor:

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

Per 8 hour shift $34.00

Total Labor - 40 shifts @ $34.00		1360.00

Supplies, Tax, and Insurance:

Gasoline and oil	$135.00		
Explosives	180.00		
Drill steel	90.00		
Timber - 3 M b.f.	195.00		
Small tools and miscellaneous	120.00		
Sales Tax	22.00		
Social Security and Insurance	163.00		
Total Supplies, etc.		905.00	
Total Estimated Cost of Shaft			2825.00

Estimated Cost per foot of shaft $47.08

Drift and/or crosscut 150 feet 5 x 7 feet in cross section from or near the bottom of the shaft (75 shifts). 2'/shift

Equipment Rental:

1 - Compressor @ $150/Mo.	$562.50	
1 - Hoist @ $50/Mo.	287.50	
1 - Rock drill with hose @ $40/Mo.	150.00	
1 - Sump pump @ $40/Mo.	100.00	
1 - Jack leg @ $25/Mo.	93.75	
Total		$1193.75

Labor:

1 - Foreman-Miner	$14/shift
1 - Hoistman	12/shift
1 - Laborer	8/shift
Per 8 hour shift	$34.00
Total Labor - 75 shifts @ $34.00	2550.00

Supplies, Tax, and Insurance@

Gasoline and oil	$300.00	
Explosives	487.50	
Drill steel	187.50	
Timber - 1 M b.f.	65.00	
Small tools and miscellaneous	300.00	
Sales Tax	40.00	
Social Security and Insurance	306.00	
Total Supplies, etc.		1686.00

Total Estimated Cost of Drift	$5429.75
~~Total~~ Estimated Cost per foot of Drift $36.20	
Total Estimated Cost of Project	$8369.75

Summary of Estimates

Construction	$115.00
Shaft	2825.00
Drift and crosscut	5429.75
Total Estimated Cost of Project	$8369.75

Frank G. Lesure, Geologist
U. S. Geological Survey

Stanley A. Feitler, Mining Engineer
U. S. Bureau of Mines

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/28	Houk	600
2/28	Selfridge	130
2/28	Houk	130
2/28	Kiilsgaard	130
"	Johnson	110
"	Mittendorf	100
3/3	C	220
		600

600

FEB 28 1958

Mr. Frank W. Phillips

Spruce Pine, North Carolina

Re: Docket No. DMEA-4928-Mica
Ramey Beam, Frank W. Phillips
and Sam W. Thompson
Self Mine
Gaston County, North Carolina

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.

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.

The logs on the diamond core drilling are returned as you requested in your letter of February 7, 1958.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures 4

LGHouk:gad 2/28/58
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
2/28	Houk	600
2/28	Selfridge	130
"	Johnson	110
"	Butterworth	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-4923-Mica
Ramey Beam, Frank W. Phillips
and Sam W. Thompson
Self Mine
Gaston 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 26, 1958, by Mr. W. F. Dietrich, USBM, and Mr. N. E. Nelson, USGS, respectively, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Copies of the Applicants' letter of February 7, 1958, with copies of logs on the diamond core drilling are also enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Approved:

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

Thor H. Kiilsgaard (HB)
Member, Geological Survey

LGHouk:gad 2/28/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Enclosures 10

8623

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 27 1958

DATE	INITIALS	CODE
2/27	C	220
2/27	H	600

IN REPLY REFER TO:

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

February 26, 1957
Re: DMEA 4928
Ramey Beam, et al
Self Mine
Gaston County, North Carolina
$7,300.00 - 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 opening by sinking and drifting another level of a producing mine.

The property was explored under Contract No. Idm-E311, DMEA 2377. Expenditures amounted to $6,975.00 of which the Government contributed $6,277.50. Work has been continued by various operators probably in an open cut, and mica worth $13,904.53 has been sold and $695.23 remitted as royalty. Further payments totaling $312.74 appear to have been made prior to July 1, 1956. See Semi-annual Report of Certified Project by Wm. A. Beck.

Apparently the readily available mica has been mined and another lift is needed. As mica probably shows in the bottom of the open cut and in a drill hole, the proposed work is essentially development.

The production history of the pegmatite suggests a 'second mortgage' on a fraction of the possible production is not well secured.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

FRANK W. PHILLIPS, Pres. ALBERT L. CANIPE, Vice Pres. SAM W. THOMPSON, Sec'y-Treas.

MITCHELL LUMBER COMPANY

INCORPORATED

SPRUCE PINE, N. C.

OFFICE FILE COPY
DMEA
RECEIVED FEB 10 1958

DATE		CODE
2/10	C	220
		600

Feb. 7, 1958

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Washington 25, D. C.

Subject: DMEA 4912
DMEA 4928

Dear Sir:

It has been called to my attention by the Field Team that our application for exploration assistance from DMEA was confusing and lacking proper information. After reading and checking it with your letter of denial, I can see that this is true. I appreciate your letter of February 4, 1958, stating that you were reopening our case.

In reference to Self Mine, DMEA 4928: We began pumping water at this mine in November 1956, and mining operations began January 1957. Since that time, using bulldozers, scrapers and dragline, we have moved thousands of yards of material and accomplished what all other miners have failed -- reached the solid. In doing this work we have sold to the U. S. Government Mica Purchasing Depot in Spruce Pine $13,904.53 of good quality ruby mica and paid DMEA $695.23 on a previous loan that was used by F. O. Phillips and others. We know that if we were financially able, we could sink a shaft and cross-cut to diamond core drill holes No. 1 and No. 4. We also feel that we could get a good quanity of high quality mica.

I am enclosing logs on the diamond core drilling at the Self Mine and I would like to have them returned.

Thanking you for any consideration and assistance you may give us, I am,

Very truly yours,

Frank W. Phillips

Frank W. Phillips

A. N. C. DRILLING CO., INC.

MAIN OFFICE

FERGUSON, KENTUCKY

DIAMOND CORE DRILL HOLE RECORD

FOR Piedmont Minerals Corporation ADDRESS Spruce Pine, N. C. DATE 5-25-52 195

ON Self Mine-Coal Site NEAR Cherryville, N. C. COUNTY Gaston STATE N.C.

HOLE NO. 1 AT 45 Degree DRILLER R. M. Collins DRILL NO.

CLASSIFICATION	THICKNESS OF STRATA FEET	THICKNESS OF STRATA INS. THS.	DEPTH FROM SURFACE FEET	DEPTH FROM SURFACE INS. THS.	
Overburden	40	0"	40	0"	
Sand and Wash Mica	60	0	100	0	
Sandstone Chist	9	3	109	3	
Mica Bearing Pegmatite	2	9	112	0	
Wash Material with Mica	18	6	130	6	
Mica Chist	5	10	136	4	
Book Mica in Chist	1	8	138	0	
White Wash Material with Mica	3	3	141	3	
Barren Pegmatite	2	4	143	7	
Country Rock	1	5	145	0	
TOTAL DEPTH	145	0	145	0	

STARTED 5-19-52 195

COMPLETED 5-25-52 195

A.-N.-C. DRILLING CO., INC.

MAIN OFFICE

FERGUSON, KENTUCKY

DIAMOND CORE DRILL HOLE RECORD

FOR [illegible] DATE [illegible] - 0 - 52

ON [illegible] AREA [illegible] COUNTY [illegible] STATE [illegible]

HOLE NO. 2 EL. [illegible] DRILLED [illegible] DRILL NO.

CLASSIFICATION	THICKNESS OF STRATA FEET	THICKNESS OF STRATA TOTAL	DEPTH FROM SURFACE FEET	DEPTH FROM SURFACE TOTAL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sand and Weak Rock	35	[illegible]	35	0
Sand and Weak Rock	5	[illegible]	40	0
Soft Chert	10	[illegible]	100	0
Soft Chert	7	[illegible]	107	0
Soft Chert	5	[illegible]	112	0
Chert and Country Rock	3	[illegible]	115	5
Chert and Country Rock	2	[illegible]	117	0
Chert and Country Rock	5	1	122	1
Chert and Vein Matter	5	11	127	0
Chert and Vein Matter	10	3	137	3
Chert and Country Rock	8	4	145	7
Granite and Quartz	3	15	144	5
Granite and Chert	7	3	151	8
Granite, Quartz and Chert	12	3	164	5
Chert and Granite	4	4	168	9
Chert and Quartz	4	1	173	4
Chert and Quartz	16	4	189	0
Chert and Quartz	3	2	193	2
Chert and Quartz	2	10	196	0
Chert and Quartz	4	0	200	0
Chert and Quartz	5	0	205	0
[illegible]				
	205	0	205	0

STARTED 5-28-52 198

COMPLETED 6-6-52 198

A.-N.-C. DRILLING CO., INC.

MAIN OFFICE

FERGUSON, KENTUCKY

DIAMOND CORE DRILL HOLE RECORD

FOR [redacted] DATE [redacted] 195

ON [redacted] NEAR [redacted] COUNTY [redacted] STATE [redacted]

HOLE NO. [redacted] EL. [redacted] DRILLER [redacted] DRILL NO.

CLASSIFICATION	THICKNESS OF STRATA FEET	THICKNESS OF STRATA INS.	DEPTH FROM SURFACE FEET	DEPTH FROM SURFACE INS.	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	

STARTED [redacted] 195

COMPLETED [redacted] 195

A. N. C. DRILLING CO., INC.

MAIN OFFICE

FERGUSON, KENTUCKY

DIAMOND CORE DRILL HOLE RECORD

FOR Piedmont Minerals Corporation ADDRESS Spruce Pine, N. C. DATE 6-25-52 195

ON Self Mine NEAR Cherryville COUNTY Gaston STATE N. C.

HOLE NO. 4 45° EL. DRILLER R. M. Collins DRILL NO. 5

CLASSIFICATION	THICKNESS OF STRATA FEET	THICKNESS OF STRATA INS. THS.	DEPTH FROM SURFACE FEET	DEPTH FROM SURFACE INS. THS.
Overburden	35	0	35	0
Brown Earth with fine Mica	35	0	35	0
Sand and Wash Mica	80	0	80	0
Quartzite and Spar	3	0	113	0
Sandy Chlorit	2	2	115	2
Quartzite and Spar	6	4	121	6
Wash Material - lost water	6	6	128	0
Sandy Brown Chlorit	5	3	133	3
Sandy Brown Chlorit	9	0	142	3
Sandy Brown Chlorit	7	1	149	4
Mica Bearing Pegmatite - Book Mica	5	8	154	0
Country Rock	1	6	155	6
Mica Bearing Pegmatite - Book Mica	8	9	164	3
Country Rock	10	9	175	0
Total	175	0	175	0

STARTED 6-17-52 195

COMPLETED 195

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

February 7, 1958

RECEIVED
DATE 2/10 C 220 600

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4928 (mica)

Applicant: Ramey Beam, et al.

Name and Location of Property: Self Mine, Gaston County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 1/29/58

Comments:

1. Applicants request DMEA assistance for rehabilitation work, shaft sinking, and drifting in pegmatite vein.

2. Applicants state that this property has been worked under two previous DMEA contracts, and that over $30,000 worth of mica was sold from this mine since November 1956.

3. Field team should determine whether proposed work is exploration or development.

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

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

January 29, 1958

Messrs. Ramey Beam, Frank W. Phillips
& Sam W. Thompson
Spruce Pine, North Carolina

Gentlemen: Subject: DMEA-4928

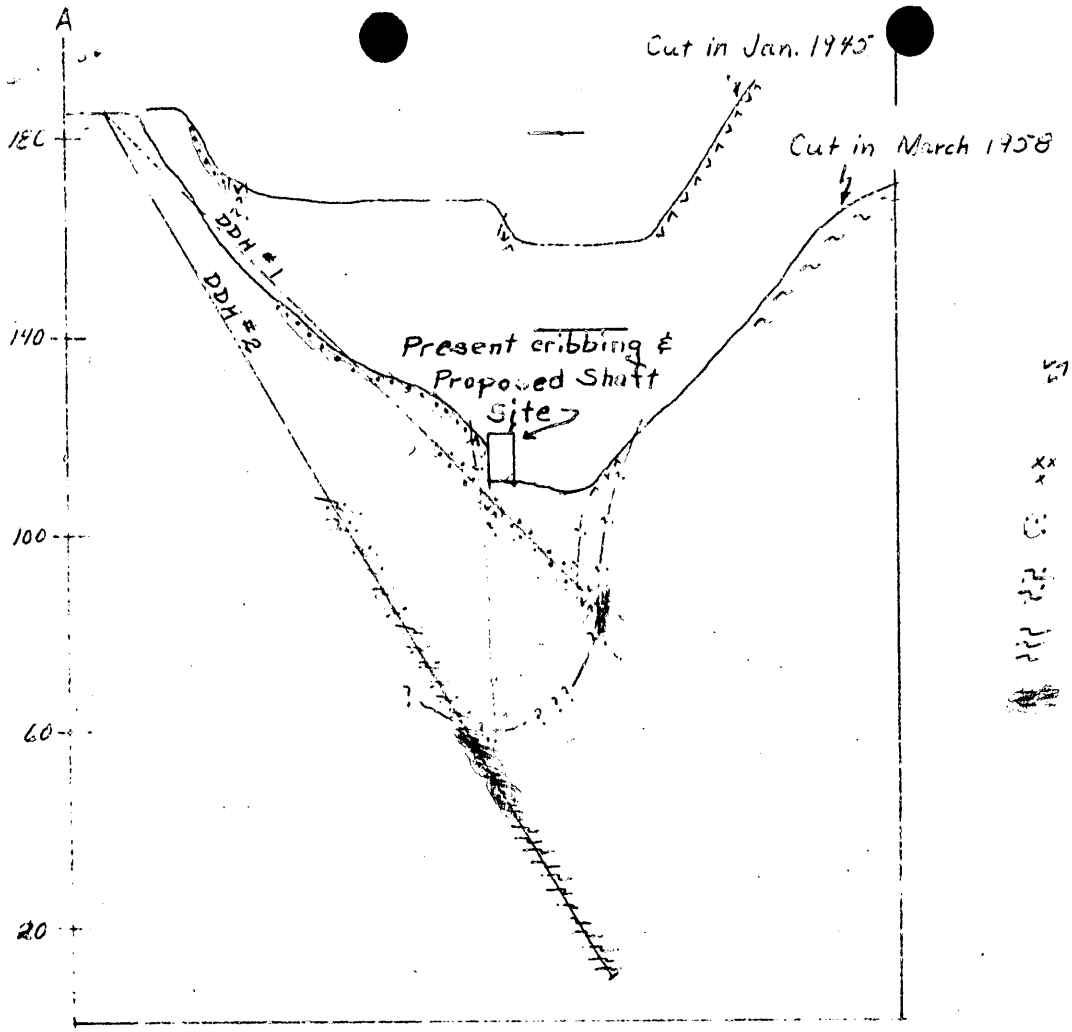
Your application for exploration assistance, dated January 1, 1958 submitted to our office at Knoxville, Tennessee has been assigned Docket Number DMEA-4928 and referred to the Nonmetallic Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

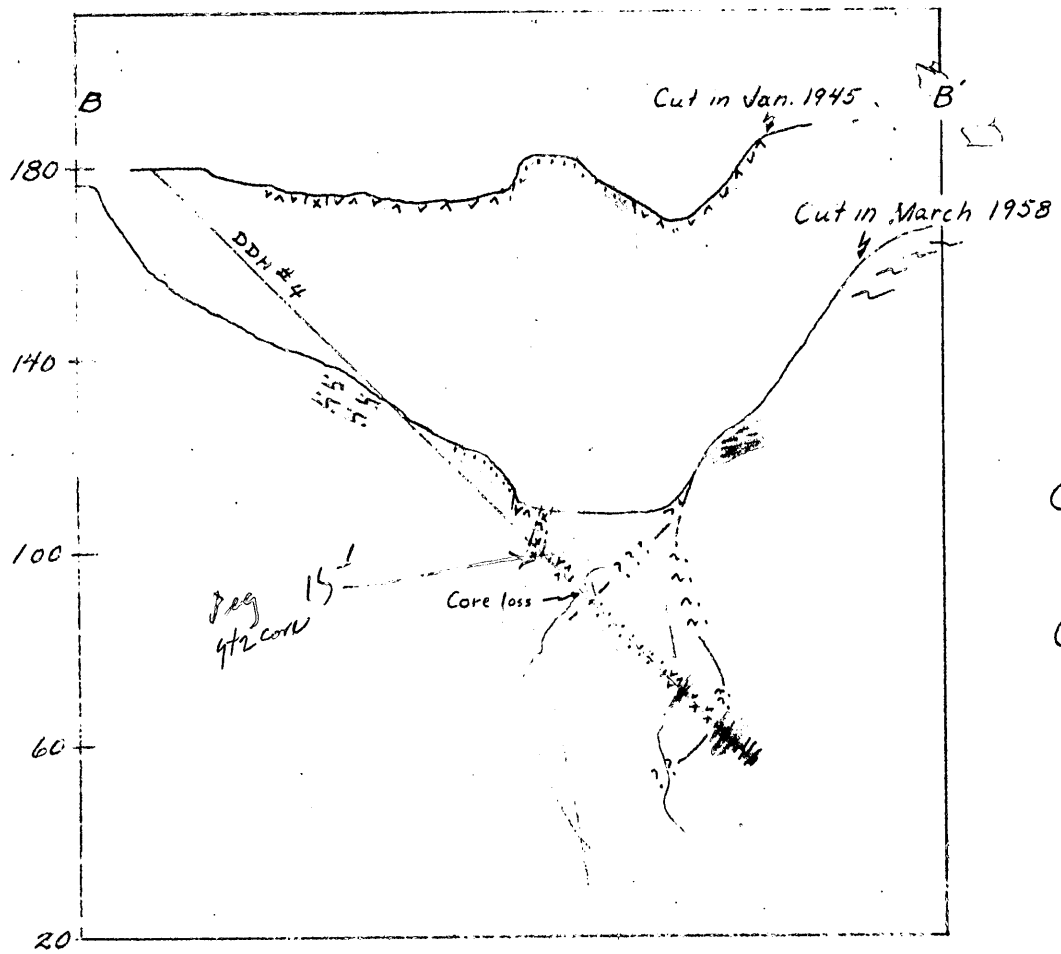
Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region V





Explanation

- Plagioclase-quartz pegmatite
- Quartz
- Granite
- Migmatite
- Biotite-muscovite gneiss
- Hornblende gneiss

Cross sections at the

Self Mine

Gaston County, N.C.

DMEA-4928(mica)

0 20 40 Feet

Shape & geology of cut in 1945 after Griffitts. Location of drill holes approximate.

F.G.L.

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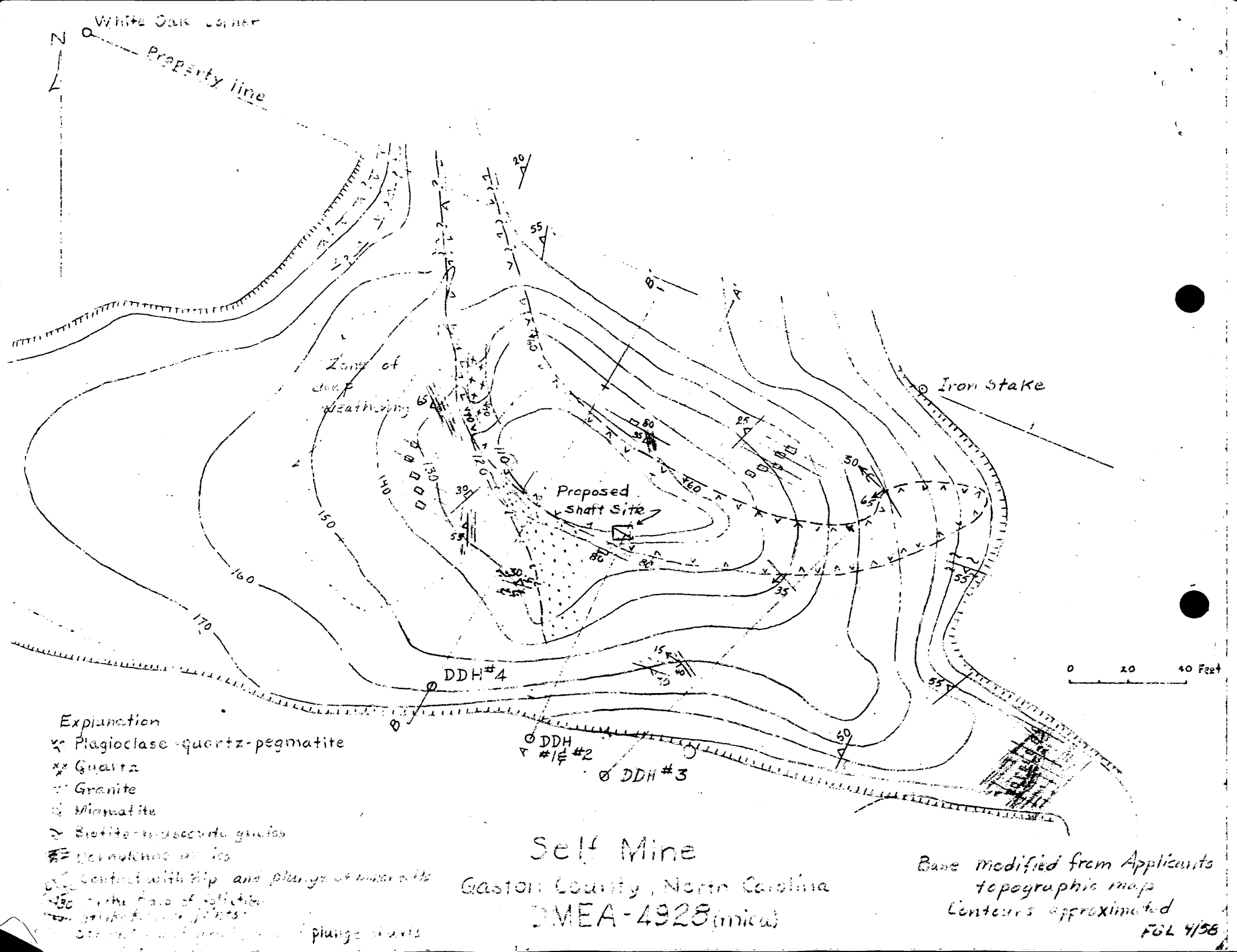
DMEA
RECEIVED APR 17 1958

DATE	INITIALS	CODE



Self Mine

Gaston County, North Carolina

DMEA-4928 (mica)

Base modified from Applicants topographic map
Contours approximated

FGL 4/58

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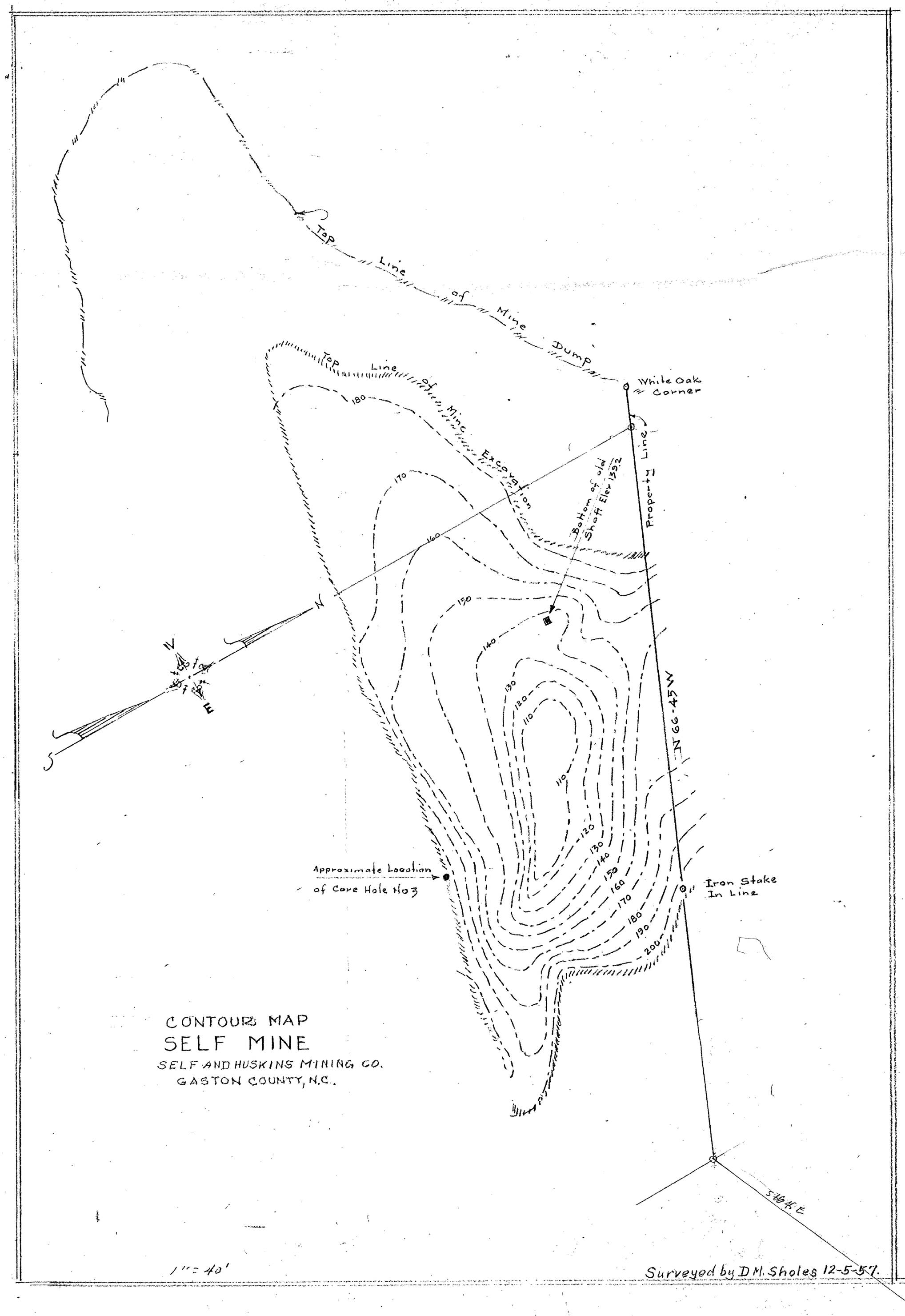
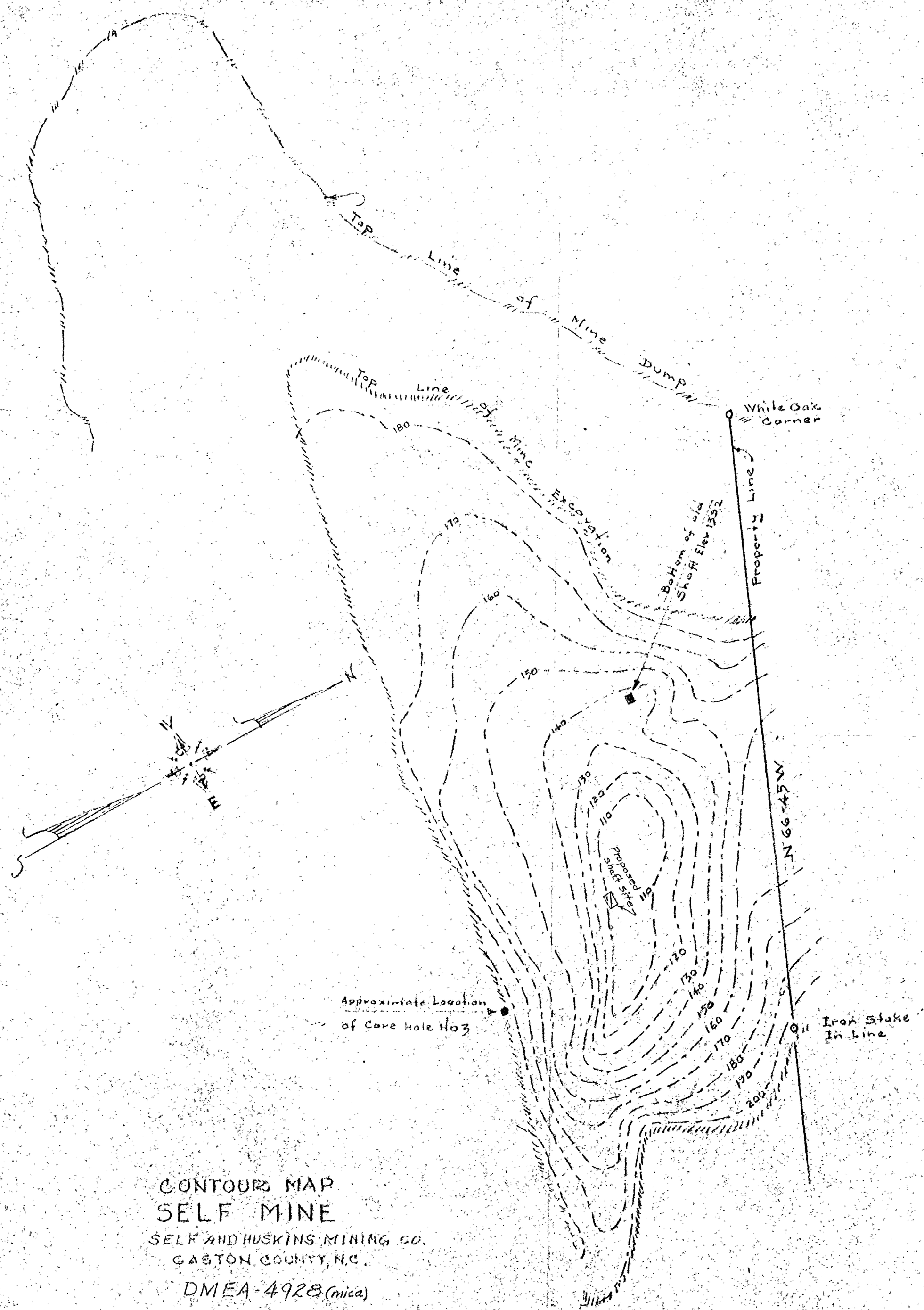
DATE	INITIALS	CODE



CONTOUR MAP
SELF MINE
SELF AND HUSKINS MINING CO.
GASTON COUNTY, N.C.

1" = 40'

Surveyed by D.M. Sholes 12-5-57.



CONTOUR MAP
SELF MINE
SELF AND HUSKINS MINING CO.
GASTON COUNTY, N.C.
DMEA-4928 (mica)

Scale
1" = 40'

Surveyed by D.M. Sholes 12-5-57.