DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4912

Application
- [ ] Denied
- [x] Withdrawn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
- [XX] Owner's Consent to Lien and Subordination Agreement
- [XX] 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

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 8 1958

DATE	INITIALS	DATE

January 6, 1958

Memorandum

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

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

Subject: Application from Self-Huskins Mine (mica)
Ramey Beam, Frank W. Phillips and Sam W. Thompson
Spruce Pine, North Carolina
Huskins Mine, Gaston County, North Carolina

Enclosed are the original and two copies of the subject application, received at this office. Also enclosed are five copies of Consent to Lien signed by J. B. Huskins and five copies of Consent to Lien signed by Walden Weaver, one copy of a property survey, and one copy each of the leases. We are keeping the fourth copy of the application for our use.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 16

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

APPLICATION FOR AID IN AN EXPLORATION PROJECT

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

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

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

RECEIVED JAN 8

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA - 4912
Date Received: 1-8-58
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
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: $ $11,550.00

LOCATION OF PROPERTY

Name	County	State
Huskins 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.

Jan. 6 1958
Dated

Frank W. Phillips
BY (Signature)

Partner
Title

RECEIVED
JAN 6 - 1958

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

OFFICE OF THE
DMEA
RECEIVED JAN 8 1956
DATE | INITIALS

SELF-HUSKINS MINE CO.

HUSKINS MINE

1. (a) See enclosed map
   (b) Huskins mica mine
   (c) Lessee
   (d) none, DMA - 1388X, Contract No. I DM - E77 was paid.

2. (a) This mine was worked by F. O. Phillips and others prior to our present mica program. The amount of mica sold is not known. It has been worked during this program by F. O. Phillips and others under DMEA contract No. I DM - E77 Mica in the amount of $110,640.15 was sold to U. S. Government Mica Depot in Spruce Pine. All mica that was obtainable without a loss to the other operators was mined out before we started.
   (b) We decided to work this mine by starting at the top of the former operators' open pit and cutting it under and deeper and working with larger and heavier equipment tahn had been used.
   (c) We have sold $2,147.18 of block mica to U. S. Mica Depot in Spruce Pine since we began our operations.
   (d) We still have mica veins dipping under a high bank which we are unable to get without sinking s shaft away from the high bank and cross cutting to the vein.
   (e) This is a long running vein dipping from 45 to 60 degrees in N W direction averaging from 1 to 4 feet in thickness. (See map)
   (f) Reasons for expecting to find ore is based on fact of past production and our own findings.
   (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) We propose to bulldoze and pan out approximately 20 feet of loose earth and mud that has fallen in and covered up the vein, then sink shaft 80 feet in bottom of the open cut, approximately 30 feet away from high back on N W side, crosscut 150 feet (50 feet to vein and 50 feet in each direction following vein)
   (b) Present road to mine is adequate
   (c) Will begin work within ten days and complete within nine months. Average daily or monthly rate of progress not known due to earth formation and quanity of water.

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

6. Bulldozing and panning -- $1500.00
   Sink Shaft $60.00 per foot -- $4800.00
   Crosscutting $ 35.00 per foot -- $5250.00 Total est. cost - $11,550.00

   (a) None
   (b through g) included in cost above

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

Frank W. Phillips
Spruce Pine, N.C.

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
Mr. Rehrecht Geological Survey GS 4219	RUN / STOP		RUN / STOP
Robert Branch	RUN / STOP		RUN / STOP
Fred Branch	RUN / STOP		RUN / STOP
Jim Brown GSA	RUN / STOP		RUN / STOP
Mary Ruffe Rm 4217	RUN / STOP		RUN / STOP
[illegible]	RUN / STOP		RUN / STOP
Mr. Ellis Room 4443 Interior	RUN / STOP		RUN / STOP
Mr. Gray Room 4450, Interior	RUN / STOP		RUN / STOP
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Mr. W. F. Dietrich

Frank D. Lamb, Rm. 3608

College Park

For your information and review.

4/22

April 18, 1958

Memorandum

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

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

Subject: Examination Report, Docket No. DMEA-4912 (Mica)
Ramey Beam, F. W. Phillips and S. W. Thompson
Huskins Mine, Gaston County, North Carolina

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

Considerable work has been done on this pegmatite since completion of an earlier DMEA contract, and all reserves outlined by that contract have long since been mined out. Therefore, the proposal must be treated as any other new application to explore an old, productive mine which has been worked at many different times by many different operators. On this basis, it presents a reasonable possibility for exploration, and we recommend approval of a contract as outlined in the report.

Robert A. Laurence
Executive Officer

V. J. Lynch, Member
Bureau of Mines

RAL/mg
Enclosures 3
cc - Operating Committee (2)
Mr. V. J. Lynch
File

Reviewed by
DMEA OPERATING COMMITTEE

(date)

(date)

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT

REGION V

DMEA-1912, HUSKINS 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

(date)

April 18, 1958

DMEA FIELD EXAMINATION REPORT

DMEA-4912, HUSKINS MINE (Mica)
Gaston County, North Carolina

DMEA
APR 21 1958
MAILING CODE

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

SUMMARY

Open cut work since DMA-1388X contract work has removed most of the old workings and mined the reserves outlined by previous exploration. Recent bulldozing has exposed a mica-rich roll in a pegmatite that may be the same body as explored before. At least two mica-bearing pegmatite veins have been mined in the open cut and others may be present. An exploration program to test the continuity of this pegmatite and to look for other favorable structures is recommended.

INTRODUCTION

Location

The Huskins mine is on the John Huskins farm, five miles southeast of Cherryville, Gaston County, North Carolina. The mine can be reached by car by driving south from Cherryville on North Carolina State Highway 274, turning right on 216 and going 0.9 mile. Turn left on a dirt road and go 1.4 miles passing the Self Mine. Turn right on a dirt road and proceed 0.6 mile passing the W. Weaver farm. The mine is a hundred feet east of this road. Access is good at all times.

Examination

The examination of the Huskins mine was made on April 3, 1958, and lasted about three hours. Mr. F. W. Phillips accompanied the examiners.

Past Operations

The examination report of DMA-1388X (Griffitts, W. R. and Beck, W. A., June 1951, Huskins Mine) described the early prospecting.

This work was of limited depth and no production records are available.

Under the DMA-1388X contract, an 80-foot shaft was sunk and 35 feet of drift driven on pegmatite. A discovery was certified and the Government has been entirely reimbursed by royalties from production.

Ernest, Lewis, Lance, and Arlind Crowder took over after the contract and operated the mine until mid-1957 when the lease was sold to the present Applicants. Since then all work has been by open cut methods resulting in the present large excavation. The Applicants report that 82 tons of mine-run muscovite has been produced since they began operations. The open cut work has removed most of the underground workings. Bulldozing and scraping at the north end of the cut was in progress at the time of the examination to expose the pegmatite for the examination. Because of the abundant mica found during the examination the Applicant intends to cut back the steep wall to the northwest. Further open cut work is limited by the Weaver property boundary beyond which only underground work is permitted.

Approximate production from July 1951 to December 1957 is as follows:

	Lbs.	Dollars
Sheet mica	1,262	18,703
Hand cobbed	447,630	100,918
Punch and scrap	92,403	7,594
Total	541,295	127,215

6,360.75

At the time of the examination there was a bunk house and an old dilapidated shed on the property. Intermittent pumping keeps the water level down in the large cut.

GEOLOGY

Bulldozing during the examination has exposed a mica-rich pegmatite 14 feet or more wide trending north at the north end of the deep open cut at the Huskins mine (see map). The shape and attitude of the body is in doubt although it probably strikes northeast and dips northwest. This pegmatite is reported by the Applicant to have been continuous for 160 feet along the bottom of the large open cut where it was worked by the Crowders in numerous shallow shafts and short drifts. This area is at present covered by spoil and water. The Applicants report that in their open cut work they have reached about the bottom of the Crowder works.

The short exposure of the pegmatite in the bulldozer trench apparently strikes N. 20° W. The western contact dips 50° SW and the eastern contact dips 10° NE. This pegmatite probably is a flat roll similar to those mentioned by Teague and Beck (Final Report, DMA-1388X, Huskins Mine, April 1952). Griffitts and Beck (Examination Report, DMA-1388X, Huskins Mine, June 1951) report a plunge of 15° - 25° to the northeast, and the roll may also plunge in that direction.

This pegmatite exposed in the bulldozer cut may be the same vein as shown in section AA' (map in final report DMA-1388X) or it may be a parallel vein just to the southeast. Nearly complete removal of all old workings plus the lack of definite tie points make any such correlation indefinite. During a visit to this mine in November 1957, two productive

pegmatites striking north to northeast were being mined south of the present exposure in the deepest part of the cut. Two other pegmatites containing no strategic sizes of mica were exposed to the west in the side of the excavation.

The level workings in the 80-foot DMA shaft are approximately 10 to 30 feet below the bulldozer work shown on the present map. Assuming a plunge of 15° this roll can be projected into Section AA' in a position that correlates it with the pegmatite exposed near the bottom of the DMA shaft work and the surface exposures.

The pegmatite is composed of deeply weathered plagioclase, quartz and muscovite with accessory beryl. Blocks of massive quartz up to 4 feet across are present on the dump and represent parts of core material from pegmatite veins removed in the cut.

The pegmatite is mica rich. About 300 lbs. of mine run muscovite was recovered in an area 5' x 10' during the examination. This muscovite is of medium to good quality. Most of the books are flat, free splitting and relatively free of stain; some books are flat "A", some reeved and a few locky. There is some stain, both clay and mineral.

Several other thin pegmatite veins are exposed in the walls of the cut southwest of the target pegmatite. These are fine grained and contain no strategic mica. The veins strike generally north and dip west.

According to Griffitts and Olson (1953, U. S. Geological Survey Professional Paper, 248-D, pp 253-254) the country rock is a fine-grained hornblende schist that contains some feldspar and garnet. Both country rock and pegmatite are deeply weathered and soft.

RECOMMENDATIONS AND DISCUSSION

We recommend that exploration assistance be granted. The mica-rich pegmatite exposed by the recent bulldozing on the north end of the cut has been worked for 160 feet or so along the bottom of the cut to the southwest. The roll structure of this pegmatite contains abundant muscovite of strategic quality. Apparently little work has been done to the north in the direction of plunge and very little work has been done at deeper levels. An exploration project designed to test the continuity and plunge of the roll and to explore for additional structures has a better than average chance of developing significant reserves. Although the flat rolls are particularly rich (up to 20%) in mica, the steeper parts of the mica pegmatites are also reported by previous examiners to have yielded good quantities of muscovite.

Inasmuch as these pegmatites roll and wallow as well as plunge, we recommend that a 75-foot shaft be started on the hanging wall of the exposure described and continued at about 60° even though the pegmatite may flatten. A 75-foot shaft is needed to attain adequate depth below the possible remaining Crowder workings (10 - 20 feet). The shaft would be collared 10 feet or so below the level indicated on the map because of the open cut work currently being done by the Applicants. Contact with the pegmatite should be maintained by drill holes as long as possible. From or near the shaft bottom 75 feet of crosscut should be driven east and west to reach the target body and to find other pegmatite veins such as that worked in the open cut and the one mentioned in the Operator's Final Report, DMA-1388X. An additional 75 feet of drift should be provided to explore such pegmatites along strike.

The Applicants would crib the upper part of the shaft above the surface and fill around it to protect the workings from the steep bank to the north.

A comparison of the depth of weathering at the nearby Self mine to that already established at the Huskins mine indicates 30 to 40 feet more of soft ground, but the Applicants are prepared to keep the water in the cut pumped out so that little trouble in shaft sinking is to be expected.

Estimated Cost

Construct:

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

Sink 75 feet of two-compartment shaft
5 x 7 feet in cross section (50 shifts).

Equipment Rental:

1 - Compressor @ $150/Mo.	$375.00	
1 - Hoist @ $50/Mo.	125.00	
1 - Rock drill w/hose @ $40/Mo.	100.00	
1 - Sump pump @ $40/Mo.	100.00	
Total equipment rental		$700.00

Labor:

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

Per 8 hour shift 34.00

Total labor - 50 shifts @ $34.00 1700.00

Supplies, tax and insurance:

Gasoline and oil	$150.00		
Explosives	206.25		
Drill steel	75.00		
Timber 4 M B.F.	260.00		
Small tools and miscellaneous	150.00		
Sales tax	25.00		
Social Security & Insurance	204.00		
Total		$1070.25	
Total Estimated Cost of Shaft			$3470.25

Estimated cost/foot of shaft $46.27

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

Equipment rental:

1 - Compressor @ $150/Mo.	$562.50	
1 - Hoist @ $50/Mo.	187.50	
1 - Rock drill w/hose @ $40/Mo.	150.00	
1 - Sump pump @ $40/Mo.	150.00	
1 - Jack leg @ $25/Mo.	93.75	
Total equipment rental		1143.75

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		$1686.00	
Total Estimated Cost of Drift			$5379.75

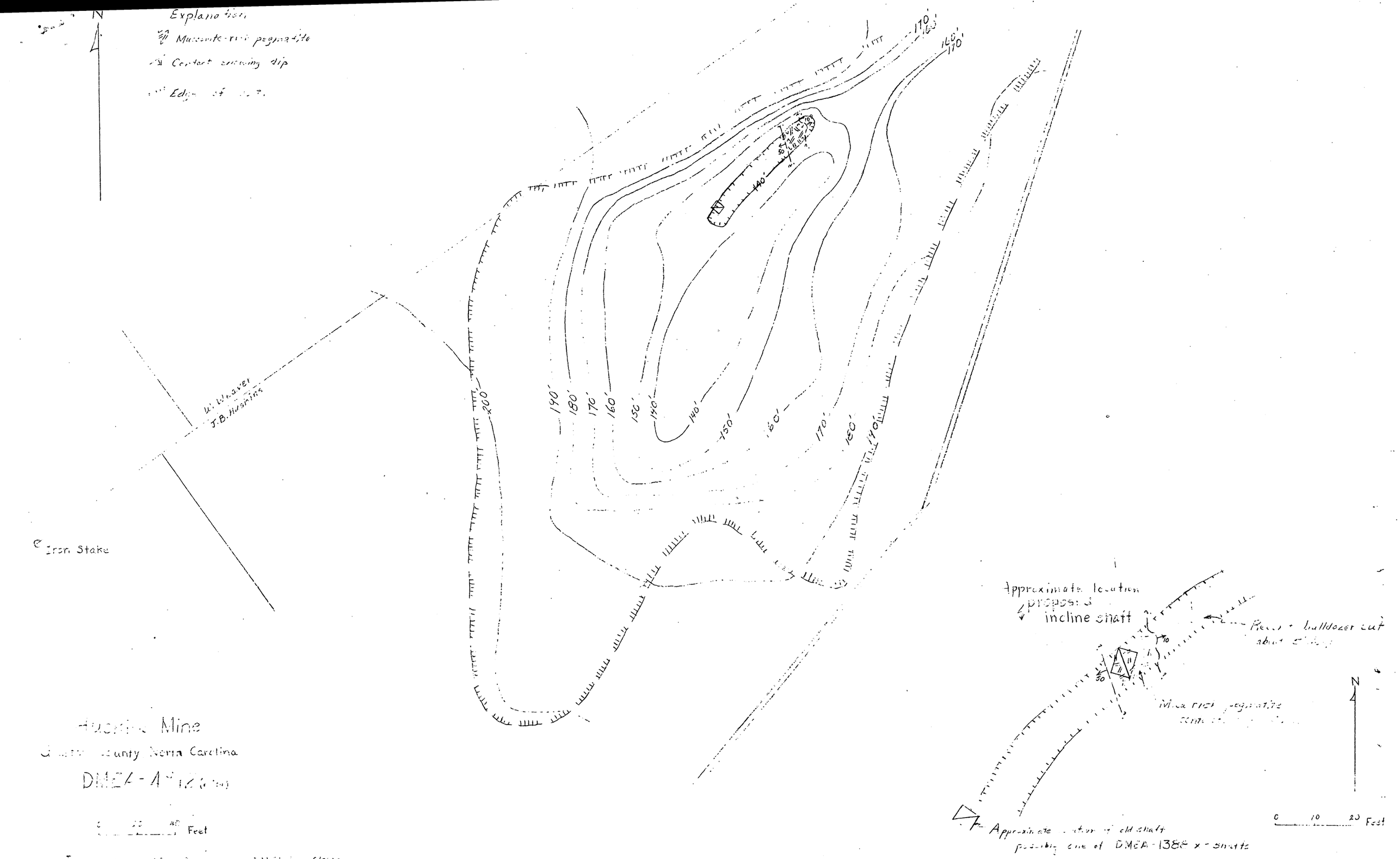
Estimated Cost/foot of Drift $35.80

Summary of Estimates

Construction	$ 115.00
Shaft - 75 feet	3,470.25
Drift - 150 feet	5,379.75
Total Estimated Cost of Project	$8,965.00

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

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


N
Explanation
Muscovite-rich pegmatite
Contact showing dip
Edge of
W. Weaver
J.B. Hughins
Iron Stake
200'
190'
180'
170'
160'
150'
140'
170'
160'
Approximate location
proposed
incline shaft
Bulldozer cut
Mica rich pegmatite
Approximate location of old shaft
possibly one of DMEA-138E x-shafts
N
0 10 20 Feet
Mine
County North Carolina
DMEA-
0 20 40 Feet
Topography modified from map by D.M. Sholes 12/5/81
Contour interval 10'
Datum assumed - contours approximate

Exploration Project Contract
Ramey Beam, Frank W. Phillips, and Sam W. Thompson
Docket No. DMEA-4912
Exhibit A
Description of the Work

Exploration for concentrations of strategic mica shall be performed in the area indicated on the map entitled "Hudson Mine, Yancey County North Carolina, DMEA-4912 (mica)," attached hereto, as follows:

1. Construct:

(a) A toolhouse, minimum dimensions 7 feet by 8 feet by 10 feet.
(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 2½ feet.
(c) An exploder storage magazine, minimum dimensions 2 feet by 1½ feet by 1 foot.

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

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

2. From the location at the surface indicated on the map, sink a two-compartment shaft, inclined at about 60° to the vertical, for a distance not to exceed 75 feet.

3. Explore the pegmatite by driving from or near the bottom of the shaft, drifts and/or crosscuts for a distance not to exceed 150 feet.

Fixed Unit Costs

1. Construct - Toolhouse 1/ $75.00
   Powder magazine 1/ 25.00
   Exploder magazine 1/ 14.00 $114.00

2. Sink 75 feet of shaft @ $44.00/ft. $3,300.00

3. Drive 150 feet of drifts and/or crosscuts @ $33.00/ft. $4,950.00

Estimated total cost of project $8,364.00

Government participation @ 50% $4,182.00

1/ The completed work constitutes the unit

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/6	Houk	600
3/6	Selfridge	120
/		110
3/6	C	220
/		600

600

MAR 6 1959

Mr. Frank W. Phillips

Spruce Pine, North Carolina

Re: Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Phillips

Reference is made to our letter of January 29, 1959, regarding action required to make your DMEA application eligible for consideration under the OME regulations.

We wish to cooperate with you in allowing ample time to complete such action, but, if we do not hear from you within 30 days from the date of this letter, we will assume that you are no longer interested in proceeding with your application, and we will consider it as having been withdrawn.

Sincerely yours,

(signed) FRANK E. JOHNSON (fh)

Acting Director

LGHouk:gad 3/5/59
Copy to: Dir. R. File
Region V
Mr. Kiilsgaard, USGS
Mr. Dietrich, USBM

no response received to date 4-13-59 gad

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Washington 25, D. C.

January 31, 1959

Memorandum for Docket

Subject: Withdrawal of Pending DMEA Applications

Effective this date, this pending DMEA application is considered withdrawn for statistical purposes.

If, at a later date, the applicant requests reconsideration under the OME program, all pertinent material in the DMEA file should be transferred to the new OME docket.

Frank E. Johnson
Acting Director

Form 7

OFFICIAL FILE COPY

Date	Surname	Code
1/15	Anderson	600
1/15	Houk	600
1/22	Selfridge	120
		~~110~~
1/29	C	220
		600

29

JAN 29 1959

Mr. Frank W. Phillips

Spruce Pine, North Carolina

Re: Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Phillips:

Enclosed is a copy of the regulations for obtaining Federal assistance in financing mineral exploration under which the new Office of Minerals Exploration will operate.

If you wish that your partly-processed DMEA application be considered under the OME regulations, please complete and return four of the copies of the attached application, MME Form 40.

Your attention is called especially to the certification which when signed declares that you would not ordinarily undertake the proposed exploration under current conditions and circumstances at your sole expense, and to Item 1(a) -- and 1(c) if applicable -- which relates to information used to determine your financial eligibility under the new exploration program. Information that is included in your DMEA application need not be repeated in the OME application, but you can add new information if you so desire.

Also enclosed are twelve copies of the Lien and Subordination Agreements, MME Form 52, referred to in Item 2(c) of the application, six for each of the leased properties. Early submittal of ten completed copies of the form will save time in case you apply for exploration assistance under the OME program and a contract is granted. Have both husband and wife sign their names in both cases, and write in their addresses. We are returning the ten copies of the Consent to Lien and Subordination Agreement and the two leases submitted with your DMEA application. Please obtain up to date leases on the two properties for a period of at least five years.

If you do not wish to participate in the OME program, we shall appreciate being so informed.

Sincerely yours,

Frank E. Johnson (for)

Acting Director

WCAnderson:gad 1/15/59
Copy to: Dir. R. File
Region V
Mr. Kiilsgaard
Mr. Dietrich
Mr. Houk

Enclosures

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/19	Anderson	600
1	Com	100
		220
		600

600

Mr. Frank W. Phillips
Spruce Pine, North Carolina

Re: Docket No. DMEA-4912 - Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Phillips:

As you have an application for exploration aid pending in our office, perhaps you may wish to study the proposed OME regulations and comment on them before October 17, as provided in the first paragraph of the enclosed notice reprinted from the Federal Register of September 17, 1958.

Some time after October 17 when the final regulations become effective, we will send you the new application form so you may furnish any additional information necessary to process your application for aid under the new program.

Sincerely yours,

C. O. Mittendorf (for)

ACTING Director

Enclosure

LGHouk:gad 9/19/58
Copy to: Dir. R. File
Mr. Houk

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/18	Houk	600
7/18	Martin	130
7/18	Lamb	130
7/18	Nelson	130
"	Johnson	110
"	Mittendorf	100
7/21	C	220

600

JUL 18 1958

Mr. Frank W. Phillips, et al.

Spruce Pine, North Carolina

Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Phillips:

Early in June we sent you the Department of the Interior Information Service Release dated June 6th which announced that no new Defense Minerals Exploration Administration contracts could be executed after June 30th because of the ending of the present program for exploration assistance.

We regret to inform you that your application, identified above, could not be completely processed before June 30th because the necessary bulldozing to expose the pegmatite was not completed in time to make a re-examination.

However, we will be glad to hold your application until the Congress acts on pending legislation to continue exploration aid. If the aid is continued, we will then ask you to state whether you wish us to consider your application under regulations established for the new program.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

LGHouk:rsi 7/18/58
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

May 12, 1958

Memorandum

OFFICIAL FILE COPY DMEA RECEIVED MAY 13 1958		
DATE	INITIAL	CODE
5/13	C	220
5/14	[illegible]	600
5/14	[illegible]	600

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 4912 (mica)

Applicant: Ramey Beam, et al

Name and Location of Property: Huskins Mine,
Gaston County, North Carolina

Date of Field Team Report: April 18, 1958

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: April 22, 1958

Field Team Recommendation: Recommend approval of contract for DMEA work.

Comments:

1. There was substantial production from this mine between July 1951 and December 1957 under DMEA docket-1388X, and the Government has been entirely reimbursed by royalties from production.

2. More recent bulldozing work, by present applicants, removing most of past workings, has uncovered mica-rich pegmatites and resulted in 82 tons of mine-run mica.

3. Geologic conditions are favorable for the continuation of these mica-rich pegmatite veins in areas beyond previous workings.

Recommendation:

I concur with the field team in recommending an exploration project.

W. F. Dietrich

W. F. Dietrich

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

May 6, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 8 1958

DATE		CODE
5/8	C	220
		130
5/8	Hirsh	400
5/8	Kocour	600

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4912 (mica). Frank W. Phillips, et al, Spruce Pine, N.C. Huskins Mine, Gaston County, N.C.

Reference is made to your letter of May 1.

Because of the excessively heavy rains of the past few months, it has been impossible to keep the water and mud completely out of the bottom of a large open cut such as the one now on the Huskins property. However, the available data support the conclusion that pegmatite is at least 100 feet long, and probably 160, beneath the muck and water.

Mr. Phillips says he will clean out the bottom as soon as weather permits, so that we may re-examine it. However, unless our field men are there when the work is done, it may well be just as covered when they get there as it was on the previous examination. In a deep cut like this one, all it takes is one rain between completion of bulldozing and the time of examination to obscure 90 to 100 percent of the exposures. Unfortunately, it is seldom possible for us to arrange to have a field man on hand while the bulldozing is in progress.

Regarding the suggestion that work be done on the adjoining Weaver property, it should be noted that the Applicant does have a lease on the Weaver property, a copy of which accompanied the application. However, Mr. Weaver will not permit open-cut work on his land (report, page 2, line 15-17) because of interference with operation of his dairy farm. He will permit underground work from adjacent shafts.

We think the Huskins pegmatite has good possibilites for reserves of strategic muscovite. We think its past history, the available records, the visible exposures and the Applicants' description of their work all add up to sufficient data to justify a shaft at the site spotted by the Field Examiners. However, we will make the re-examination when the Applicants exhume the pegmatite in the pit, and will report to you at that time.

Copy each sent to Bu. Mines & Survey
5-14-58

Robert A. Lawrence
EXECUTIVE OFFICER
DMEA REGION V

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

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/29	Knouse	600
4/30	Houk	600
4/30	George C. Selfridge	130
"	Johnson	110
"	Fleetwood	100
		220

MAY 1 1958

600

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

Subject: Docket No. DMEA-1388-Mica
Gaston Strategic Minerals Co.
Huskins Mine
Gaston County, North Carolina
Contract No. Idm-477

Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Laurence:

Please review the enclosed copies of the memorandum, dated April 24, 1958, from T. H. Kiilsgaard, USGS, which relates to a modification of the Field Team's recommended program to explore the subject property.

We note that the program recommended by the Field Team contemplates the exploration of a pegmatite that is exposed for a width of 10 feet and a strike length of about 15 feet. (See map of Huskins Mine with Field Team Report.) Also, that the Applicants reported this pegmatite has a strike length of 160 feet that is now covered by spoil and water. The Applicants should be requested to remove the material covering the pegmatite, and when the exposure is completed the property should be re-examined and the findings and any modifications of your recommended program should be furnished in a supplemental report. Also, the supplemental report should include a map showing the extent of the pegmatite, and the location of the proposed work in relation to the pegmatites and workings, where possible, that are shown on the map with the Field Team Final Report for Docket No. DMEA-1388, dated April 8,1952.

When we receive this information we will continue to process the application.

Approved:

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

Thor H. Kiilsgaard (THK)
Member, Geological Survey

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

FLKnouse:gad 4/29/58

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
4/25 7 M 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 Examination Report, DMEA 4912, (mica), Huskins Mine, Gaston County, North Carolina.

Field Examiners recommend approval of the application. The proposed work would consist of a 75-foot shaft to be sunk from the bottom of an open cut, and 150 feet of crosscutting and drifting from the bottom of the shaft to explore one or more pegmatites. Cost of the program is estimated at $8,965.

The Huskins mine was previously explored under DMEA Docket 1388. Work under that project consisted of 7 bulldozer trenches, supplemented by 10 to 20-foot test pits located in each of the trenches. There also was an 80-foot shaft sunk, which encountered heavy and wet ground at 70 feet and had to be abandoned. A new shaft was sunk 15 feet away. This shaft was sunk to a depth of 80 feet cutting the pegmatite at about the 50-foot level. All of these previous workings apparently have been removed by later open-cut work.

There has been substantial production from the Huskins mine between July 1951 and December 1957. Royalties from this production has completely repaid the Government for previous exploration expenditures. On this basis, it would seem that the pegmatite to be explored might warrant continued exploration. On the other hand, there are some disadvantages to the proposed exploration. The high north wall of the pit would seem to be a distinct menace to any shaft sunk at its base. The shaft could be cribbed above the surface, with rock filled behind the cribbing, but even so such shaft work would be a rather dangerous operation. It might behoove the applicant to obtain a lease on the Weaver property to the northwest and a working agreement allowing him to extend his open pit into that property. This would allow continued northwestward exploration of the pegmatite by open-cutting, which apparently is cheap and practical.

I concur with the Field Team's conclusions, that a favorable exploration target exists on the property. I do not, however, see where a 75-foot shaft, that would extend only 50 to 60 feet below old workings -- if that much -- would be of much use, from an exploration standpoint. In view of this, it is suggested that a more extensive program be proposed to the applicant before a final decision on the disposition of the application is made.

T. H. Kiilsgaard

T. H. Kiilsgaard

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

April 18, 1958

RECEIVED APR 21

DATE	INITIALS	CODE
4/21	C	220
4/23	HB	130
4/23	C	220
4/23	Hook	600
4/23	HK	600

Memorandum

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

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

Subject: Examination Report, Docket No. DMEA-4912 (Mica)
Ramey Beam, F. W. Phillips and S. W. Thompson
Huskins Mine, Gaston County, North Carolina

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

Considerable work has been done on this pegmatite since completion of an earlier DMEA contract, and all reserves outlined by that contract have long since been mined out. Therefore, the proposal must be treated as any other new application to explore an old, productive mine which has been worked at many different times by many different operators. On this basis, it presents a reasonable possibility for exploration, and we recommend approval of a contract as outlined in the report.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

Enclosures 3

Reviewed by
DMEA OPERATING COMMITTEE
4-23-58
(date)

On-Site Exam. Rept.

UNITED STATES

DEPARTMENT OF THE INTERIOR

4/23 130 220

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT

REGION V

DMEA-4912, HUSKINS MINE (Mica)
Gaston County, North Carolina

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

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

April 18, 1958

Reviewed by
DMEA OPERATING COMMITTEE
4-23-58
(date)

RECEIVED APR 21
4/23 2/3 170 220

DMEA FIELD EXAMINATION REPORT

DMEA-4912, HUSKINS MINE (Mica)
Gaston County, North Carolina

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

SUMMARY

Open cut work since DMA-1388X contract work has removed most of the old workings and mined the reserves outlined by previous exploration. Recent bulldozing has exposed a mica-rich roll in a pegmatite that may be the same body as explored before. At least two mica-bearing pegmatite veins have been mined in the open cut and others may be present. An exploration program to test the continuity of this pegmatite and to look for other favorable structures is recommended.

INTRODUCTION

Location

The Huskins mine is on the John Huskins farm, five miles southeast of Cherryville, Gaston County, North Carolina. The mine can be reached by car by driving south from Cherryville on North Carolina State Highway 274, turning right on 216 and going 0.9 mile. Turn left on a dirt road and go 1.4 miles passing the Self Mine. Turn right on a dirt road and proceed 0.6 mile passing the W. Weaver farm. The mine is a hundred feet east of this road. Access is good at all times.

Examination

The examination of the Huskins mine was made on April 3, 1958, and lasted about three hours. Mr. F. W. Phillips accompanied the examiners.

Past Operations

The examination report of DMA-1388X (Griffitts, W. R. and Beck, W. A., June 1951, Huskins Mine) described the early prospecting.

This work was of limited depth and no production records are available.

Under the DMA-1388X contract, an 80-foot shaft was sunk and 35 feet of drift driven on pegmatite. A discovery was certified and the Government has been entirely reimbursed by royalties from production.

Ernest, Lewis, Lance, and Arlind Crowder took over after the contract and operated the mine until mid-1957 when the lease was sold to the present Applicants. Since then all work has been by open cut methods resulting in the present large excavation. The Applicants report that 82 tons of mine-run muscovite has been produced since they began operations. The open cut work has removed most of the underground workings. Bulldozing and scraping at the north end of the cut was in progress at the time of the examination to expose the pegmatite for the examination. Because of the abundant mica found during the examination the Applicant intends to cut back the steep wall to the northwest. Further open cut work is limited by the Weaver property boundary beyond which only underground work is permitted.

Approximate production from July 1951 to December 1957 is as follows:

	Lbs.	Dollars	#
Sheet mica	1,262	18,703	14 82
Hand cobbed	447,630	100,918	22 5 ¢
Punch and scrap	92,403	7,594	08 ¢
Total	541,295	127,215	

450.00 year.

At the time of the examination there was a bunk house and an old dilapidated shed on the property. Intermittent pumping keeps the water level down in the large cut.

GEOLOGY

Bulldozing during the examination has exposed a mica-rich pegmatite 14 feet or more wide trending north at the north end of the deep open cut at the Huskins mine (see map). The shape and attitude of the body is in doubt although it probably strikes northeast and dips northwest. This pegmatite is reported by the Applicant to have been continuous for 160 feet along the bottom of the large open cut where it was worked by the Crowders in numerous shallow shafts and short drifts. This area is at present covered by spoil and water. The Applicants report that in their open cut work they have reached about the bottom of the Crowder works.

Mistake here! See map - Huskins' workings extended

The short exposure of the pegmatite in the bulldozer trench apparently strikes N. 20° W. The western contact dips 50° SW and the eastern contact dips 10° NE. This pegmatite probably is a flat roll similar to those mentioned by Teague and Beck (Final Report, DMA-1388X, Huskins Mine, April 1952). Griffitts and Beck (Examination Report, DMA-1388X, Huskins Mine, June 1951) report a plunge of 15° - 25° to the northeast, and the roll may also plunge in that direction.

This pegmatite exposed in the bulldozer cut may be the same vein as shown in section AA' (map in final report DMA-1388X) or it may be a parallel vein just to the southeast. Nearly complete removal of all old workings plus the lack of definite tie points make any such correlation indefinite. During a visit to this mine in November 1957, two productive

pegmatites striking north to northeast were being mined south of the present exposure in the deepest part of the cut. Two other pegmatites containing no strategic sizes of mica were exposed to the west in the side of the excavation.

The level workings in the 80-foot DMA shaft are approximately 10 to 30 feet below the bulldozer work shown on the present map. Assuming a plunge of 15° this roll can be projected into Section AA' in a position that correlates it with the pegmatite exposed near the bottom of the DMA shaft work and the surface exposures.

The pegmatite is composed of deeply weathered plagioclase, quartz and muscovite with accessory beryl. Blocks of massive quartz up to 4 feet across are present on the dump and represent parts of core material from pegmatite veins removed in the cut.

The pegmatite is mica rich. About 300 lbs. of mine run muscovite was recovered in an area 5' x 10' during the examination. This muscovite is of medium to good quality. Most of the books are flat, free splitting and relatively free of stain; some books are flat "A", some reeved and a few locky. There is some stain, both clay and mineral.

Several other thin pegmatite veins are exposed in the walls of the cut southwest of the target pegmatite. These are fine grained and contain no strategic mica. The veins strike generally north and dip west.

According to Griffitts and Olson (1953, U. S. Geological Survey Professional Paper, 248-D, pp 253-254) the country rock is a fine-grained hornblende schist that contains some feldspar and garnet. Both country rock and pegmatite are deeply weathered and soft.

RECOMMENDATIONS AND DISCUSSION

We recommend that exploration assistance be granted. The mica-rich pegmatite exposed by the recent bulldozing on the north end of the cut has been worked for 160 feet or so along the bottom of the cut to the southwest. The roll structure of this pegmatite contains abundant muscovite of strategic quality. Apparently little work has been done to the north in the direction of plunge and very little work has been done at deeper levels. An exploration project designed to test the continuity and plunge of the roll and to explore for additional structures has a better than average chance of developing significant reserves. Although the flat rolls are particularly rich (up to 20%) in mica, the steeper parts of the mica pegmatites are also reported by previous examiners to have yielded good quantities of muscovite.

Inasmuch as these pegmatites roll and wallow as well as plunge, we recommend that a 75-foot shaft be started on the hanging wall of the exposure described and continued at about 60° even though the pegmatite may flatten. A 75-foot shaft is needed to attain adequate depth below the possible remaining Crowder workings (10 - 20 feet). Poor exposure The shaft would be collared 10 feet or so below the level indicated on the map because of the open cut work currently being done by the Applicants. Contact with the pegmatite should be maintained by drill holes as long as possible. From or near the shaft bottom 75 feet of crosscut should be driven east and west to reach the target body and to find other pegmatite veins such as that worked in the open cut and the one mentioned in the Operator's Final Report, DMA-1388X. An additional 75 feet of drift should be provided to explore such pegmatites along strike.

The Applicants would crib the upper part of the shaft above the surface and fill around it to protect the workings from the steep bank to the north.

A comparison of the depth of weathering at the nearby Self mine to that already established at the Huskins mine indicates 30 to 40 feet more of soft ground, but the Applicants are prepared to keep the water in the cut pumped out so that little trouble in shaft sinking is to be expected.

Estimated Cost

Construct:

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

Sink 75 feet of two-compartment shaft 5 x 7 feet in cross section (50 shifts). 1.5

@ 1.6'/sh = 47 shifts

Equipment Rental:

1 - Compressor @ $150/Mo.	$375.00	
1 - Hoist @ $50/Mo.	125.00	
1 - Rock drill w/hose @ $40/Mo.	100.00	
1 - Sump pump @ $40/Mo.	100.00	
Total equipment rental @ $250/mo.		$700.00 587.50

Labor:

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

Per 8 hour shift 34.00

Total labor - 50 shifts @ $34.00 — 1700.00

47 " " " — 1598.00

Supplies, tax and insurance:

Gasoline and oil	$150.00	
Explosives	206.25	
Drill steel	75.00	
Timber 4 M B.F.	260.00	
Small tools and miscellaneous	150.00	
Sales tax	25.00	
Social Security & Insurance	204.00	
Total		$1070.25

Total Estimated Cost of Shaft $3470.25 3255.75

Estimated cost/foot of shaft $46.27 use $44.00/ft.

Drift and/or crosscut 150 feet 5 x 7 feet in cross section from or near the bottom of the shaft (75 shifts). @ 2.2'/sh = 69 shifts

Equipment rental:

1 - Compressor @ $150/Mo.	$562.50	
1 - Hoist @ $50/Mo.	187.50	
1 - Rock drill w/hose @ $40/Mo.	150.00	
1 - Sump pump @ $40/Mo.	150.00	
1 - Jack leg @ $25/Mo.	93.75	
Total equipment rental @ $250/mo.		1143.75 = 862.50

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

69 " " " — 2336.00

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		$1686.00

Total Estimated Cost of Drift $5379.75

Estimated Cost/foot of Drift $35.80

use $ 33.00/ft.

4884.50

Summary of Estimates

Construction	$ 115.00
Shaft - 75 feet	3,470.25
Drift - 150 feet	5,379.75
Total Estimated Cost of Project	$8,965.00

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

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

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

MITCHELL LUMBER COMPANY
INCORPORATED

SPRUCE PINE, N. C.

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

Mr. Houk

Reopen case

Advise operators in referral letter that --

Because of similarity of names, property was confused with another and we are reopening the case.

Notify C[redacted]n.

F.E.J.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/3	Houk	600
2/3	[illegible]	130
2/4	Johnson	110
"	Stellendorf	100
2/4	[illegible]	220
		600

600

FEB 4 1958

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

Re: Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Laurence:

Thank you for pointing out our error, — Where pointed out? — and please review the subject application and arrange for a field examination if you deem it necessary.

In Memo of Jan. 29, 1958 from F.T. Region V

Copies of a revised memorandum dated January 30, 1958, by Mr. N. E. Nelson, USGS, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (LB)

Approved:

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

Thor H. Kiilsgaard (LB)
Member, Geological Survey

Enclosures 3

LGHouk:gad 2/3/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/3	Houk	600
2/3	Selfridge	130
2/3	Lamb	130
2/5	Kiilsgaard	130
2/4	Johnson	110
"	Mittendorf	100
		220

600

FEB 4 1958

Mr. Frank W. Phillips, et al.

Spruce Pine, North Carolina

Re: Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine
Gaston County, North Carolina

Dear Mr. Phillips:

We erred in denying your application for exploration assistance. Please disregard our letter of denial of January 22, 1958. Because of the similarity of names the property was confused with another, and we are reopening the case. Your application has been referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region V, Room 13, Post Office Building, Knoxville 2, Tennessee, for further consideration and possibly a field examination.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

LGHouk:gad 2/3/58
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 30 1958
CODE
1/30 gb 220
600

IN REPLY REFER TO:

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

January 30, 1958
Re: DMEA 4912
Self-Huskins Mine Partnership
Huskins Mine
Gaston County, North Carolina
$11,550.00 - Mica

Memorandum

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

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

Subject: REVISED review of application

Due to name duplication and lack of immediately available up-to-date information on DMEA 1388, my January 10, 1958, review of the application is much in error.

Work under DMEA 2377, Idm-E311 was done on the Self mine in Gaston County. The Self-Huskins partnership is probably a new organization in no way, as for this application, concerned with the Self mine. DMEA 1388, Idm-E77 was done in the Huskins mine (or John Huskins mine) as said by the Executive Officer in his memorandum of January 27, 1958, was completed and the accrued royalty has been paid off.

The present applicants propose to sink a shaft 80 feet in the footwall of the pegmatite, crosscut 50 feet and drift 100 feet in the pegmatite. The Huskins mine has been a much better than average producer of mica and the applicants' assumption that unmined pegmatite and mica exist at depth is probably based on good information concerning past operations.

Referral of the application to the Field Team is again recommended.

N. E. Nelson

N. E. Nelson

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

DMEA
RECEIVED JAN 29 1958

DATE	INITIALS	CODE
1/29	gb	220
		600

January 27, 1958

Memorandum

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

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

Subject: Docket No. DMEA-4912 (Mica)
Frank W. Phillips, et al., Spruce Pine, North Carolina
Huskins Mine, Gaston County, North Carolina

Reference is made to Mr. Mittendorf's letter of January 22 to the Applicant, denying the subject application.

The third paragraph erroneously states that previous work was done on this property under Docket No. DMEA-2377, Contract No. Idm-E311. This is not correct, as the previous work was done under Docket No. DMEA-1388, Contract No. Idm-E77. It was completed, certified, and the entire amount has been repaid.

Robert A. Laurence

Robert A. Laurence
Executive Officer

V. J. Lynch

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

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/22	Houk	600
1/22	Selfridge	130
1/22	McMahon	130
1/22	Kiilsgaard	130
"	Johnson	110
"	Mittendorf	100
1/22	gb	220
		225

600

JAN 22 1958

Mr. Frank W. Phillips, et al.

Spruce Pine, North Carolina

Re: Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine (Formerly 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

LGHouk:gad 1/21/58
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Send in Error!

Told Mrs. [illegible] to require the [illegible] as case is being reopened

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/22	Houk	600
		110
		100
		220

Permit

600

January 21, 1958

Memorandum

To: Mr. C. O. Mittendord, Administrator

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

Subject: Evaluation of application - Docket No. DMEA-4912-Mica
Frank W. Phillips, et al.
Huskins Mine (Formerly Self Mine)
Gaston County, North Carolina

Denial of application without field referral is recommended.

Records of this office show that Contract No. Idm-E311, dated May 7, 1952, DMEA-2377, was carried on by Piedmont Minerals, Inc., and the project was certified. DMEA-4912 is a re-application on the Self Mine.

Contract work was set up:

Stage I	
Diamond Drill holes 700' @ $6.75/ft.	$4,725.00
Stage II	
Shaft sinking 120' @ $45/ft.	5,400.00
Crosscutting 25' @ $35/ft.	875.00
Drifting 40' @ $35/ft.	1,400.00
Total	$12,400.00
Government participation 90%	$11,160.00

Contract work completed:

Diamond drill holes 700' @ $6.75/ft.	$4,725.00
Shaft sinking 50' @ $45/ft.	2,250.00
Total cost of project	$6,975.00
Government participation 90%	$6,277.50

There were two amendments to the contract, the first allowed sinking the shaft at a new location. The second extended the completion date for six months.

On December 28, 1953, a certification of discovery was issued to the Piedmont Minerals, Inc.

Total royalty payments to date are in the amount of $1,732.63.

8623

The Final Field Team Report, docket No. DMEA-2377, dated November 10, 1953, states that after two shafts were lost, the Operator secured a dragline and removed the muck from the bottom of the old open cut and sank two shallow pits on pegmatite. Immediately above the point where drill holes 1 and 2 bottomed, about 5 tons of book mica was recovered from the dragline operation and from the two pits. Reserves of pegmatite indicated 6,000 tons.

The present application DMEA-4912, dated January 1, 1958, was filed by a partnership consisting of Ramey Beam, Frank W. Phillips, and Sam W. Thompson, all of Spruce Pine, N. C. The present leaseholders have sold $2,147.18 of block mica to the Mica Depot at Spruce Pine.

The present applicants propose to bulldoze and pan out approximately 20 feet of mud, then sink a shaft 80 feet in bottom of open cut, crosscut 150 feet, for a total of $11,550.00.

Recommendations:

The Division of Nonmetallic Minerals recommends that the application be denied on the basis that a new shaft at the proposed location will be no more successful than the two previous DMEA shafts. The Division of Nonmetallic Minerals recommends against providing Government funds to reach targets that have been drilled with DMEA funds. The project target as certified is not enlarged by the new proposal which is, in fact, only gaining access to mine. The Commodity Member of the Bureau of Mines concurs in this recommendation. The Commodity Member of the Geological Survey recommends referring the application to the field for examination.

NG

Lawrence G. Houk
Director, Division of Nonmetallic Minerals

LGHouk:rsi 1/21/58
Copy to: Admr. R. File
Mr. Houk

OFFICIAL FILE COPY
DME
RECEIVED JAN 17 1958

DATE	INITIALS	CODE
1/17	[illegible]	220
1/20	[illegible]	600

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

January 17, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4912 (mica)

Applicant: Ramey Beam, et. al.

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

Date Application Rec'd. by Br. of Ceramic & Fertilizer Mtls. 1/8/58

Comments:

1. Applicants request $11,550 for bulldozing, shaft-sinking, and crosscutting on a mica bearing pegmatite which has been successfully mined in the past.

2. Mica worth over $100,000 was produced from this mine under DMEA contract Idm-E 77.

3. Unit cost of proposed work is a little higher than equivalent DMEA projects.

4. In view of past production proposed work is development rather than exploration.

Recommendation:

It is recommended that the application be denied as this property was previously certified.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 13 1958

DATE	INITIALS	COPIES
1-13	C	220
1/13	Houk	600

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

#62775.0
1732.63
E4544.87

January 10, 1958
Re: DMEA 4912
Self-Huskins Mine Partnership
Huskins Mine
Gaston County, North Carolina
$11,550.00 - Mica

Memorandum

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

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

Subject: Review of application

1388 77

The applicant, probably a partnership, requests assistance in renewing the exploration of the zoned pegmatite in the Self Mine. The property was explored under DMEA 2377, Idm-E311, in 1952-53. Due to heavy ground the operator was unable to complete the approved work estimated to cost $12,400. Work costing $6,975.00 was done and mica worth $20,159.40 was sold. Royalty in the amount of $1,007.97 was paid against the $6,277.50 due the Government (90% of $6,975.00). The balance due is $5,269.53. The project was certified December 28, 1953.

Four diamond drill holes were drilled and 2 to the west (#1 and #4) intersected pegmatite, and 2 went under the lense. A westerly plunge is inferred.

As drill hole No. 4 appears not to have been cut in mining, it is reasonably certain the pegmatite has not been mined out. The percentage of mica in it is not estimated.

If the proposed work should be done, the total Government equity would be $5,269.53 plus 75% of $11,550.00 or about $14,000. Perhaps there is a cheaper way to open up the pegmatite.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13 POST OFFICE BLDG.
WASHINGTON 25, D. C.
KNOXVILLE 2, TENN.

RECEIVED JAN 8 1958

January 6, 1958

Mr. Frank W. Phillips

Spruce Pine, North Carolina

Dear Mr. Phillips:

The application for aid in exploration for strategic mica at the Huskins mine in Gaston County, North Carolina has been forwarded to our Washington office in accordance with established procedure. We will notify you in advance if a field examination is to be made.

In making out future applications, please note that the Consent to Lien should show the date of the execution, and the address of the signer. This information was omitted from the copies submitted with this application. Please send me the mailing addresses of J. B. Huskins and Walden Weaver, and the date on which Mr. Huskins signed the Consent to Lien.

Sincerely yours,

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

RAL/mg
cc - Operating Committee (2)
Mr. Lynch
Mr. J. R. Beam
Mr. Sam W. Thompson
File

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

January 8, 1958

Mr. Frank W. Phillips et al
Spruce Pine, North Carolina

Gentlemen:

Subject: **DMEA-4912**

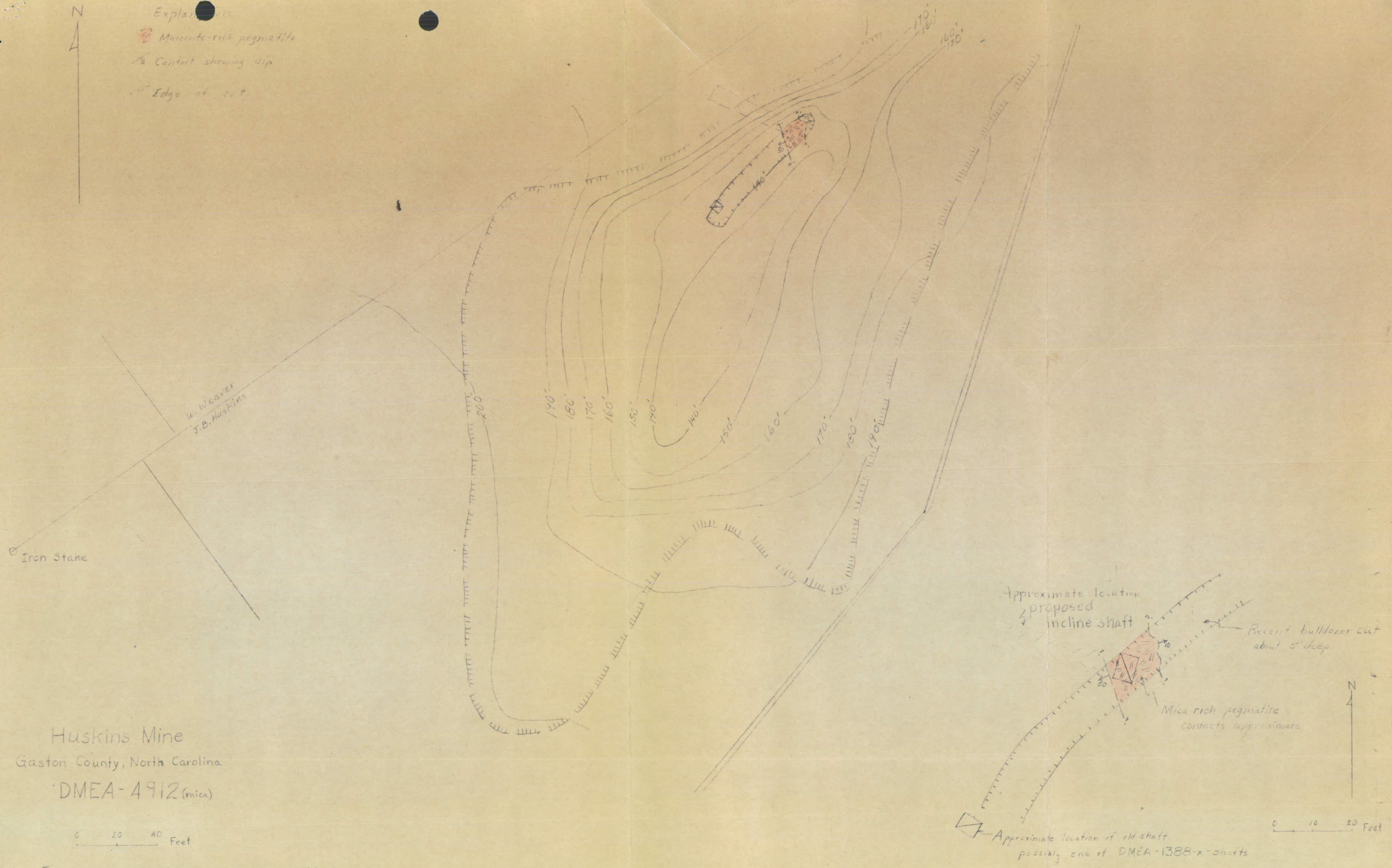
Your application for exploration assistance, dated **January 1, 1958** submitted to our office at **Knoxville, Tennessee** has been assigned Docket Number **DMEA-4912** and referred to the **NonMetallic Minerals Division** in the Washington office.

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



Huskins Mine

Gaston County, North Carolina

DMEA-4912 (mica)

0 20 40 Feet

Topography modified from map by D.M. Sholes 12/5/57

Contour interval 10'

Datum assumed - contours approximate

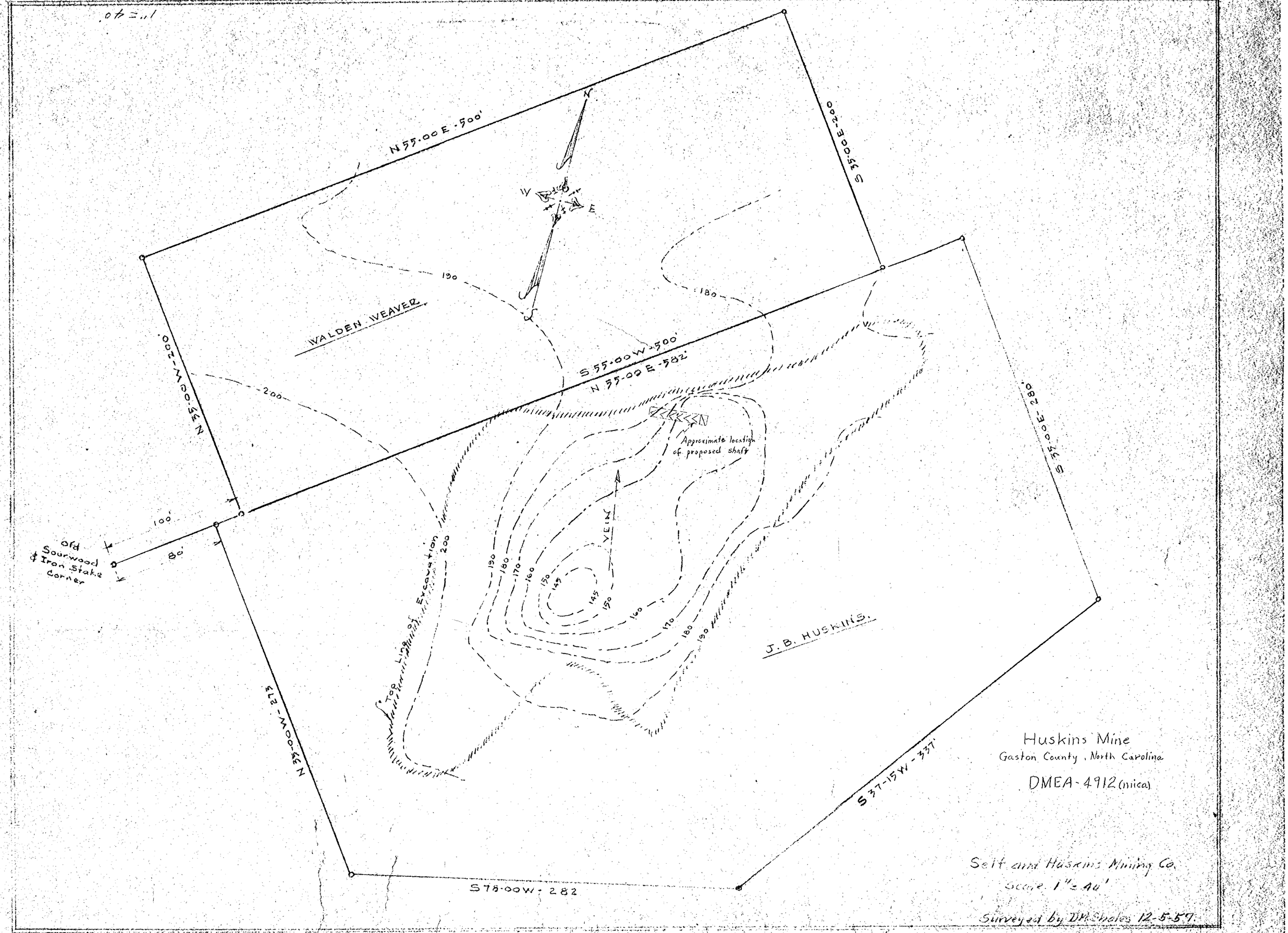
FGL 4/58

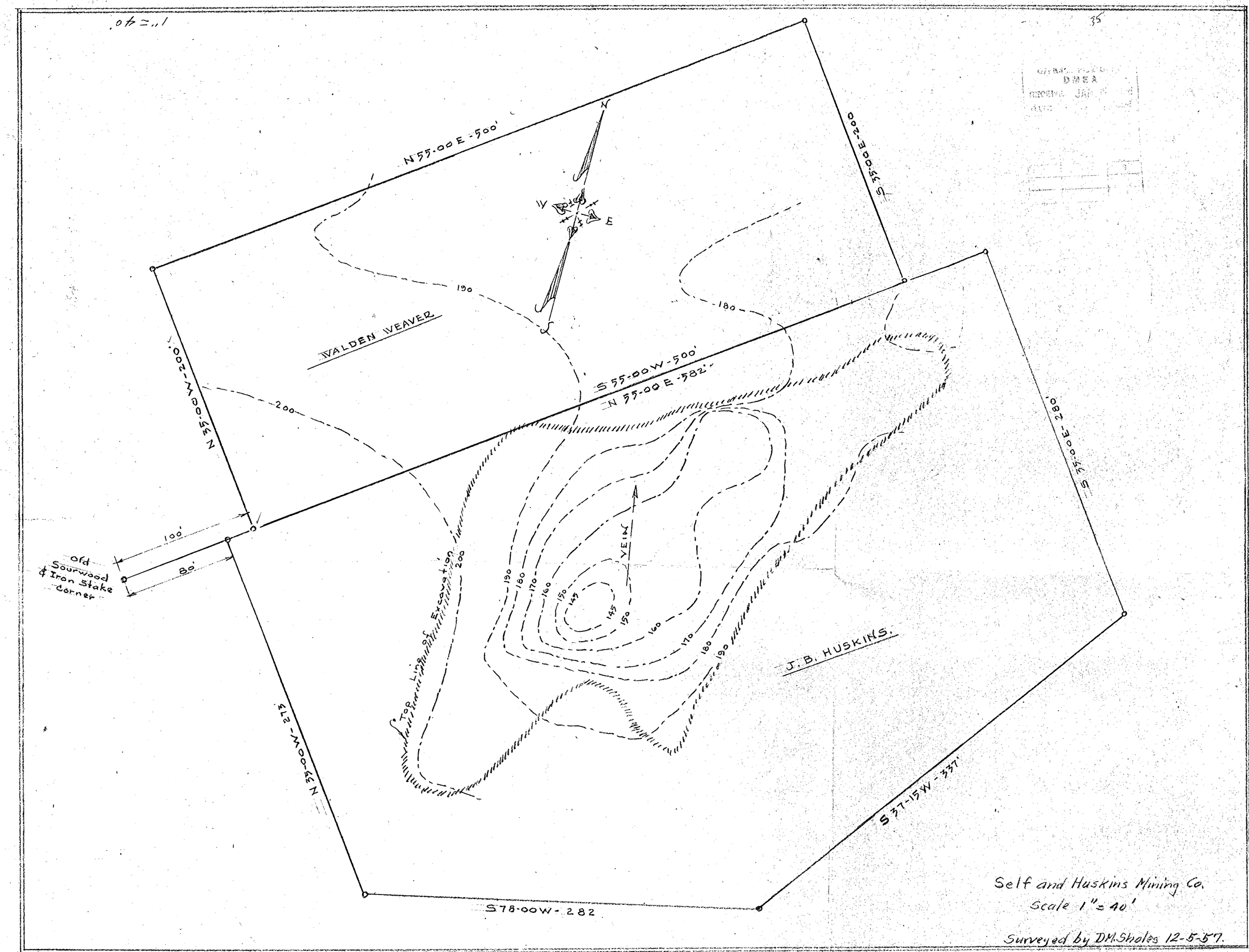
OFFICIAL FILE COPY
D M E A
RECEIVED APR 21 1958

DATE	INITIALS	CODE

OFFICIAL FILE COPY
D M E A
RECEIVED APR 21 1958

DATE	INITIALS	CODE


N 55-00 E - 500'
S 35-00 E - 240
N 35-00 W - 200
S 55-00 W - 500'
N 55-00 E - 582'
S 35-00 E - 280'
N 35-00 W - 273
S 55-00 W - 282
S 37-15 W - 337'
WALDEN WEAVER
J. B. HUSKINS.
Approximate location of proposed shaft
Top of Excavation
VEIN
130
180
200
190
170
160
150
145
100'
80'
Old Sourwood & Iron Stake Corner
Huskins Mine
Gaston County, North Carolina
DMEA - 4912 (mica)
Selt and Huskins Mining Co.
Scale 1" = 40'
Surveyed by D.M. Shales 12-5-59.



Self and Huskins Mining Co.
Scale 1" = 40'

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