DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4705

Application (Denied ✓
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
✓ Owner's Consent to Lien
✓ Subordination Agreement
✓ Leases and assignments of leases
✓ Application and attachments
✓ (3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
On-site Exam Report(s) (Tab) ✓
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

Right Side

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

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9775

Form MF–103
Revised Feb. 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)

Marvin P. Kenoyer
Sturgis
South Dakota

APPLICANT NOT TO USE THIS BLOCK

Docket Number

Date Received

Government Participation %

Region

Division Code

BUSINESS ORGANIZATION (Check one)

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

State in which firm is organized

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title

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

Estimated Cost of Project: $ Rental of Caterpillar for 6 mos. @ $600 per mo.-$3600; $5,000 expense money

LOCATION OF PROPERTY

Name	County	State
Lushbough Property	Custer	South Dakota

GENERAL INSTRUCTIONS

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

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

October 18, 1957
Dated

Marvin P. Kenoyer
BY *(Signature)*

Title

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

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

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

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

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

2. *Physical Description:*

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

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

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

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

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

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

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

3. *Accessibility of Project:*

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

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

4. *The Exploration Project:*

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

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

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

5. *Experience:*

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

6. *Estimate of Costs:*

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

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

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

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

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

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

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

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

Note – No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

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

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

* * * * *

United States Senate

COMMITTEE ON PUBLIC WORKS

FREE

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE
DMEA		

March 26, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Mica) Marvin P. Kenoyer (Lilian Tract) Custer County, South Dakota

Enclosed are the original and two copies of the subject application, each with a copy of a letter of transmittal dated March 21, 1957, from Raymond J. Fox. One copy of the application and the transmittal letter is being retained in our file.

We also enclose the original and two copies of a typed MF-205 Form (Consent To Lien and Subordination Agreement) submitted with the application which was seemingly prepared from instructions, Washington Office, DMEA.

Since the contents of the application will require your sending a letter to Mr. Kenoyer, we are leaving the questions contained in Mr. Fox's letter for your reply at that time.

The applicant proposes to explore a reported pegmatite dike for mica by an unspecified amount of sinking and drifting; both at an estimated cost per unit foot of $140.

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

Enclosures

RAYMOND J. FOX
LAWYER
~~XXXXXXX~~SOUTH DAKOTA
Custer,

P. O. Box 512

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957
DATE | INITIALS | CODE

DMEA
PARTMENT OF THE INTERIOR
957
REGION III
DENVER, COLORADO

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Kenoyer Application

Dear Mr. Traver:

Enclosed herewith in quadruplicate, is the application of Marvin P. Kenoyer for an exploratory loan, a copy of his mining lease, and a consent to lien and subordination agreement signed by the owners of the property.

We should appreciate your processing this matter as rapidly as possible.

You will note that a portion of the real estate involved has been exempted from the consent to lien. I have not as yet received from Washington any reply to the question which I asked you regarding such exception.

Kindly advise whether it is possible to get any part of a loan in a lump sum for the purpose of purchasing equipment to do the necessary exploratory work.

Very truly yours,

RJF:bjt
Enc: 6

March 21, 1957

PARTOCK TO
WC (3)

Dec. 1

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

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

RECEIVED MAR 1957 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Custer, State of South Dakota, described as follows:

> Lilian Tract located in the Northwest Quarter (NW¼) of Section 23, Township 3 South, Range 4, East of the Black Hills Meridian, in Custer County, South Dakota, as shown in that certain plat filed in Book 2 of Plats, at page 87, in the office of the Register of Deeds of Custer County, South Dakota, excluding therefrom that portion of Lilian Tract commencing at corner No. 6, thence South 46 degrees 27 minutes East 320.5 feet to corner No. 7, thence North 43 degrees 33 minutes East 100 feet, thence North 46 degrees 27 minutes West to line 5-6, and thence South 24 degrees 56 minutes West to place of beginning,

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

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

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

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

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: None.

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

6. Consents to all amendments (including an agreement of termination) and

assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: None.

Dated this 21st day of March, 1957.

Allen A. Lushbough (Seal) Sturgis, S. D. (Address)

Lillian C. Lushbough (Seal) Sturgis, South Dakota (Address)

MF-205
(Combines and supersedes M[illegible]01 and MF-203)
June 1956

For Government's Use Only
EXPLORA[illegible] PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

RECEIVED MAR 29 1957 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Custer, State of South Dakota, described as follows:

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

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

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: None.

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

6. Consents to all amendments (including an agreement of termination) and

assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: None.

Dated this 21st day of March, 1957.

Allen A Lushbough (Seal) Sturgis, S. D. (Address)

Lucian C. Lushbough (Seal) Sturgis, So. Dakota (Address)

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

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

RECEIVED MAR 29 1957 D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT

To the United States of America:

Referring to that certain land in the County of Custer, State of South Dakota, described as follows:

> Lilian Tract located in the Northwest Quarter (NW¼) of Section 23, Township 3 South, Range 4, East of the Black Hills Meridian, in Custer County, South Dakota, as shown in that certain plat filed in Book 2 of Plats, at page 87, in the office of the Register of Deeds of Custer County, South Dakota, excluding therefrom that portion of Lilian Tract commencing at corner No. 6, thence South 46 degrees 27 minutes East 320.5 feet to corner No. 7, thence North 43 degrees 33 minutes East 100 feet, thence North 46 degrees 27 minutes West to line 5-6, and thence South 24 degrees 56 minutes West to place of beginning,

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

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

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

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

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: None.

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

6. Consents to all amendments (including an agreement of termination) and

assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: None.

Dated this 21st day of March, 1957.

Allen A Lushbough (Seal) Sturgis, S. D. (Address)

Lillian C. Lushbough (Seal) Sturgis, South Dakota (Address)

WO

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DMEA
DEPARTMENT OF THE INTERIOR
MAR 25 1957
REGION III
DENVER, COLORADO

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 4905
Metal or Mineral Mica
Date Received 3-29-57
Estimated Cost None Given
Participation (Government %)

RECEIVED MAR 29 1957 D.M.E.A.

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Lilian Tract located in the Northwest Quarter (NW¼) of Sec. 23, Twp. 3 South, Rge. 4 East of B. H. M. in Custer County, South Dakota, excluding that portion thereof described in the sheet attached hereto. Plat filed Book 2 of Plats, page 87, office of Register of Deeds, Custer County, S. Dak.

(*b*) State any mine name by which the property is known. None

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Mica

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☒ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

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.

Dated February 26, 1957.

Marvin P. Kenoyer
(Applicant)

By

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

MF-103 (Supplemental)

3. Excluded portion of Lilian Tract commences at corner No. 6, thence South 46 degrees 27 minutes East 320.5 feet to corner No. 7, thence North 43 degrees 33 minutes East 100 feet, thence North 46 degrees 27 minutes West to line 5-6, and thence South 24 degrees 56 minutes West to place of beginning.

4. Physical description.--(a) Surface excavation for purpose of exposing face of dike. Work done as lessee. Readily accessible within less than one mile from Custer, South Dakota.

(b) Yield from 718 lbs. of cobbed mica: 21 lbs. 9½ oz., consisting of 1 oz. fair stained, 2 lbs. 7 oz. good stained, 14 lbs. 9½ oz. stained, 4 lbs. 8 oz. heavy stained. Ore reserves to be determined by exploration.

(c) Mica vein deposit, with some showing of beryl. Wish to explore to determine extent of vein and quality of sub-surface mica.

(d) Access road over excluded portion from U. S. Highway 16. Distance to market, supply and residence points less than one mile.

(e) Immediate availability of manpower, materials, supplies, equipment and power. Water not needed.

5. The exploration project.--(b) Propose to sink shaft and run drift.

(d) Supervision by applicant, who has spent lifetime around mining.

6. Estimate of Costs.--(a) Independent contracts: None.

(b) Labor, supervision, consultants: Labor and supervision to be furnished by applicant ($25.00 per unit foot). Two hired men at $2.00 per hour ($55.00 per unit foot).

(c) Operating materials and supplies: Air hose, steel, bits, hand tools, timber, powder, laging, gasoline, oil, fuse, caps, etc. ($50.00 per unit foot).

(d) Operating equipment: Compressor ($500.00), hammer ($415.00), hoist ($800.00), pickup ($1000.00) -- all to be furnished by applicant ($5.00 per unit foot use-allowance).

(e) Rehabilitation and repairs: None.

(f) New buildings, improvements, installations: Hoist house at $500.00 ($5.00 per unit foot).

(g) Miscellaneous: Repairs to and maintenance of operating equipment ($10.00 per unit foot). One-half to be furnished by applicant.

(h) Contingencies: None.

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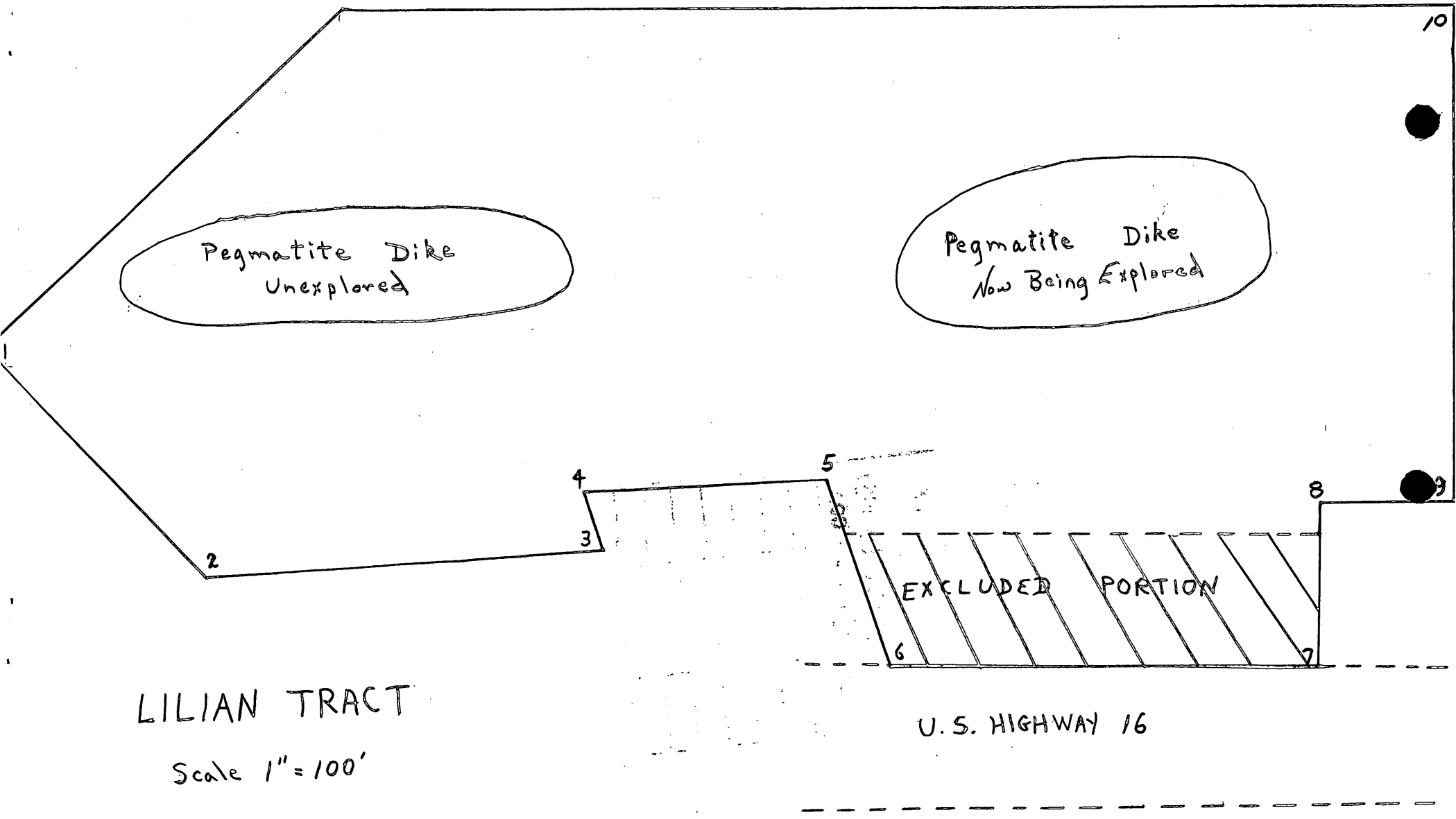
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE

MF-103 (Supplemental 2)

7. (a) Yes.

(b) By use of self-owned equipment, own labor and supervision, and repair and maintenance of operating equipment. Total cost per unit foot estimated at $140.00 for sinking shaft and drifting, of which items furnished by applicant would be $35.00 per unit foot.



LILIAN TRACT

Scale 1" = 100'

COPY

MINING LEASE

THIS INDENTURE made and entered into this 20th day of November, 1956, by and between Allen A. Lushbough and Lillian C. Lushbough, husband and wife, of Sturgis, Meade County, South Dakota, (herein called the Lessor), and Marvin P. Kenoyer, of Sturgis, Meade County, South Dakota, (herein called the Lessee),

WITNESSETH:

That the Lessor in consideration of the royalties, covenants, and agreements hereinafter reserved, and by the Lessee to be paid, kept, observed and performed, hereby leases to the Lessee all of the following property and rights, to-wit:

> Ten Acres (10A) more or less platted as TRACT LILIAN, which is a portion of Daley Patent, (Lot Eleven (11)), located in Section Twenty-three (23), Township Three (3) South, Range Four (4) East, of the Black Hills Meridian, Custer County, South Dakota, as shown on Book 2 of Plats, Page 87, in the office of the Register of Deeds of Custer County, South Dakota.

TOGETHER with all rights of every kind and description whatsoever, and all buildings, structures and improvements thereon, and all machinery, engines, pumps, compressors, tracks, drills, equipment, tools and implements of every kind situated thereon being the property of the Lessor, but not to include any property of any kind whatsoever belonging to any person other than the Lessor, situated thereon.

TO HAVE AND TO HOLD the same unto the Lessee for the term as hereinafter set forth, unless sooner terminated, or forfeited, through, or by reason of, the violation or non-observance of any agreements, or covenants, hereinafter set forth, on the part of the Lessee to be kept, observed and performed.

That in consideration of the aforesaid leasing, the Lessee covenants and agrees with the Lessor as follows:

1. To enter immediately upon the said property and to begin and continue work thereon, re-opening and putting in order said mine, and doing such work as is necessary to reach and take out the greatest amount of ore possible, with due regard to the operation and development of the property as a workable mine, and the special covenants hereinafter set forth;

2. To commence said operations not later than December 1, 1956, and to operate same continuously, without interruption for any one period in excess of sixty (60) days, except for such interruptions or stoppages of work as may be caused by Acts of God, strikes, riots, legal process, or unavoidable accidents, stoppages occasioned by such not to be regarded as a breach of the requirements contained in this or the preceding paragraph hereof, so long as such causes or cause shall make

such stoppage unavoidable;

3. To keep, at all times, such working levels as are feasible to use, and drifts, shafts, tunnels, and other works therein thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualties;

4. To pay to the Lessor an amount equal to ten per cent (10%) of the gross sales of all presently known commercial minerals, including, mica, beryl, and feldspar, produced from said mining property, with said royalty payment to be increased to twelve and one-half per cent (12½%) at such time as the accumulated gross sales of minerals derived from said mining property shall exceed the amount of $50,000.00, and provided that if and in the event other valuable minerals or ores, not now presently discovered or known to exist, then and in that event the Lessor shall receive as his royalty interest, twenty per cent (20%) of the gross sales prices of said other valuable minerals or ores, it being specifically understood that the said twenty per cent (20%) royalty payment shall and does apply only to such other valuable minerals and ores as are not presently evidenced to be in existence, but shall be hereafter discovered;

5. To pay to the Lessor royalty payments in an amount not less than $500.00 during each and every year during the duration of this lease agreement, commencing the date of execution thereof, with said minimum royalty payment to be applied against accumulated royalty payments as herein otherwise set forth, not to be in addition to said royalty payments, and to make all royalty payments as herein provided to the account of the Lessor at the Custer County Bank, Custer, South Dakota, not more than five (5) days immediately after date of receipt of each and every individual payment for ores marketed;

6. That the term of this lease shall be for the term of one (1) year commencing the date hereof, with an option on the part of the Lessee to renew said lease for nine (9) additional periods of one year from and after the one year primary term hereof, or otherwise, give to the Lessor at least ninety (90) days prior to such termination, written notice of his intention to so terminate;

7. To allow the Lessor, at any time after the one year primary term hereof, to sell and dispose of any portion of said property as shall then not interfere with the existing mining operation, provided, however, that the Lessee may at any time prior to such sale or disposition of a portion of said property drill or otherwise test the said mining property for the presence of commercial ores;

8. To at all times during the duration of this agreement so conduct his mining operations in such manner as will not jeopardize the future operation of

said mine situated on the mining property, and will at all times dispose of muck and other disposable material in such manner as will not jeopardize the future operation of said mine, and at such location as shall not be seen from the existing Highway 16 located general west of said property;

9. To at all times maintain adequate workmen's compensation and liability insurance on persons and employees engaged in mining operations on said property, along with visitors to said property, and otherwise hold Lessor harmless from all accidents and damages arising or occuring to any person or persons whomsoever in, on, or about said property, whether employed by Lessee or otherwise;

10. To allow the Lessor, and its agent, at all reasonable times, to enter upon, and into all parts of, the property, or upon, or in, any mill, or other property used by the Lessee in connection with operations upon the property, or in connection with taking ore therefrom, for the purpose of inspection of and sampling of the same; and to allow Lessor at all times access to any and all records and books relative to sales of minerals produced from said mining property, and work done upon said property;

11. That upon the violation, or omission to keep, observe, or perform, any of the agreements, or covenants, hereinabove to be kept, observed, or performed by the Lessee, the term of this lease shall at the option of the Lessor, expire, and the Lessor, or its agents, or attorneys, may thereupon, immediately after demand for possession, enter upon said property and dispossess all persons occupying the same, and in case of forfeiture, or at any other termination of this lease, the Lessor shall be entitled to recover from the Lessee any and all sums that may be due to him under the terms hereof, or because of any failure, or neglect, of the Lessee, or any person, or persons, acting under it, to keep, observe or perform any of the agreements or covenants hereof, provided that in the event of termination of this lease for any reason whatsoever, the Lessee may at his option remove any and all equipment and buildings by him situated thereon, provided that he shall at such time not be liable to the Lessor for unpaid royalties or damages;

12. That upon the termination of this lease, by expiration, forfeiture, or otherwise, the Lessee shall deliver up the property, in good order and condition, with the mine ready for immediate and continuous working, so far as the same shall have been opened, or reopened, unavoidable accidents alone excepted;

13. That this indenture shall be assignable with the written consent of the Lessor by the Lessee and shall inure to the benefit of and be binding the parties hereto, and their successors and assigns, respectively.

IN WITNESS WHEREOF the parties hereto have caused this indentu

executed the day and year first above written.

Allan A. Lushbough, Lessor

Lillian C. Lushbough, Lessor

Marvin A. Kenoyer, Lessee

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF MEADE)

On this the 20 day of November, 1956, before me, the undersigned officer, personally appeared Allen A. Lushbough, Lillian C. Lushbough and Marvin P. Kenoyer, known to me, or satisfactorily proven to be, the persons whose names are subscribed to the within instrument and acknowledged to me that they executed same for the purposes therein contained.

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

Notary Public, South Dakota

My commission expires:

(SEAL)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/3	Anderson	600
1/3	Selfridge	130
1/3	Jones	130
1/3	Kiilsgaard	130
	Absent	110
3	Mittendorf	100
		220

600

JAN 3 1958

Mr. Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Mr. Kenoyer:

Reference is made to your letter of October 13, 1957, requesting reconsideration of your application, dated February 26, 1957, for Government assistance to explore the subject property which was denied on May 31, 1957.

As we previously informed you, 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.

We have reviewed all the available information on this proposed project and have again concluded that the probability of disclosing significant reserves is not sufficiently promising to justify Government participation. Consequently, we must reaffirm our previous denial of your application.

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

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:gad 1/3/58
Copy to: Admr. R. File
Operating Committee
Field Team, Region III
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

1/3/58

For justification for rescinding of subject application, see evaluation by L. H. Hoak, dated 5/21/57, which still applies, as nothing new has been submitted by applicant

WRA

ORIGINAL FILE COPY
DMEA
RECEIVED DEC 20 1957

DATE	INITIALS	DEPT
12/20	gb	220
		600

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

December 20, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4705 (mica)

Applicant: Marvin P. Kenoyer

Name and Location of Property: Lilian Tract, Custer County, S. D.

Date of Field Team Supplemental Report: 12/11/57

Date Rec'd. by Br. of Ceramic & Fertilizer Mtls. 12/18/57

Field Team Recommendation: Recommend denial of application

Comments:

1. This mine was re-examined by reason of senate request.

2. Mica production from this mine has totaled $2,500, recovered from 1,200 tons of ore.

3. Careful examination indicates that there is probably not more than $1,700 worth of mica left in the pegmatite.

Recommendation:

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

Milford L. Skow

Milford L. Skow

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

December 11, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 16 1957

DATE	INITIALS	CODE
12/16	gb	220
12/18	2B	130
12/18	C	220
12/20	Hook	600

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4705 (Mica) Marvin P. Kenoyer (Lilian Tract) Custer County, South Dakota - Supplemental Report of Examination

In compliance with your request of October 23, 1957, the subject property has been re-examined in the presence of Mr. Kenoyer, the Applicant.

Attached are the original and two copies of a joint memorandum report on the re-examination of the subject property. The field examiners again recommend that the application be denied on geologic evidence which indicates that the chance of a significant discovery of strategic mica in the dike is nil. We concur in this recommendation.

W H King
W. H. King
Executive Officer

Re-Exam On-Site

Reviewed by
DMEA OPERATING COMMITTEE
12-18-57
(Date)

IN REPLY REFER TO:

DMEA

DEPARTMENT OF THE INTERIOR

DEC 11 1957

REGION III

DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 16 1957

DATE	INITIALS	CODE
12/15		130
		220

December 9, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman

From: E. O. Binyon
D. H. Richter

Subject: Docket DMEA 4705 (Mica) Marvin P. Kenoyer (Lilian Tract), Custer County, South Dakota

On April 23, 1957, the subject property was carefully examined and geologically mapped by W. P. Pratt, U. S. Geological Survey, and E. O. Binyon, U. S. Bureau of Mines. In their Examination Report of May 13, 1957, the examiners concluded "that the mica-bearing pegmatite probably does not extend more than 20 feet below the present floor of the cut, and that it most probably does not contain significant reserves of strategic mica regardless of its depth." They recommended that the DMEA application be denied.

Unfortunately, the applicant was not present during the examination and consequently details of the proposed exploration could not be discussed and the total pegmatite production figures, cited in the report, were in error. Furthermore, it became apparent during our recent visit that the applicant was under the impression that the pegmatite was never examined. As a result of this unfortunate situation, and after correspondence between Senator Francis Case and the Administrator, the Docket was reopened and a re-examination requested.

Reviewed by
DMEA OPERATING COMMITTEE
12-18-57
(Date)

The subject property was re-examined on December 3, 1957, by the writers, accompanied by Mr. M. Kenoyer, the applicant, and Mr. Test, Custer Chamber of Commerce official. The re-examination corroborates in practically every detail the geologic features and conditions described in the original Examination Report. In fact, a close examination of the pegmatite-schist contact indicates that the pegmatite "bottoms" even at a shallower depth than the 20 feet postulated originally. In the floor of the open cut (see fig. 2, Examination Report) recent digging by the applicant has exposed the schist footwall in a small anticlinal flexure a few feet farther west than where indicated in figure 2 and only 8 feet horizontally from the steeply dipping schist hanging wall. As inferred from contact attitudes and a measured 15° S 30° E plunge on the small anticlinal roll exposed in the cut, the northwest end of the dike apparently plunges gently SE. The keel of the dike at its southeast end, however, which is exposed on some of the higher elevations in the bottom of the cut, appears to be fairly flat-lying or possibly plunging a few degrees to the northwest.

Total monetary returns from the sale of sheet mica recovered from the 1,200 tons of mined pegmatite has been approximately $2,500.00, or about $2,000.00 more than credited to the pegmatite in the Examination Report. However, regardless of the larger production figures, the fact remains that the pegmatite is nearly exhausted, containing a probable maximum of 800 tons which, based on the figures given above, represents a potential value of $1,700.00.

The applicant's exploration proposal, which consists of driving an incline northwest from the southeast end of the cut, is, in light of the dike's probable southeast plunge, highly untenable. As a matter of fact, it appears that geologic justification for any work, other than actual mining of the remaining pegmatite, is very weak.

We concur with the recommendation, given in the Examination Report, that the application be denied. This recommendation is based, not on the past production of the pegmatite, but solely on geologic evidence which indicates that the chance of a significant discovery of strategic mica in the dike is nil.

E. O. Binyon

E. O. Binyon, Mining Engineer

D. H. Richter

D. H. Richter, Geologist

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 18 1957

DATE	INITIALS	CODE
12/18	gb	220
12/19	Houk	600

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

December 18, 1957
Re: DMEA 4705
Marvin P. Kenoyer
Lilian Tract
Custer Co., South Dakota
Mica

Memorandum

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

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

Subject: Review of supplemental Field Team Report

The applicant in the first instance requested assistance in exploring a pegmatite by sinking and drifting. The examiners considered the mica potential of the remaining part of the pegmatite to be small and recommended denial of the application.

Based on expressions of dissatisfaction by the applicant a reexamination was made. The examiners (Binyon and Richter) found conditions essentially as reported by Binyon and Pratt and denial is again recommended.

I concur with this recommendation.

N. E. Nelson

N. E. Nelson

Original Copy
DMEA
RECEIVED NOV 4 1957

DATE	INITIALS	CODE
11/4	C	220
11/4	Hark	600

224 New Customhouse
Denver 2, Colorado

October 30, 1957

Memorandum

To: E. N. Harshman) W/encs. Items 1-7 Below
DMEA/DFC Att: E. O. Binyon) " " " "

From: DMEA Field Team, Region III

Subject: Docket DMEA 4705 (Mica) Marvin P. Kenoyer (Lilian Tract) Custer County, South Dakota

Enclosed is the following material relating to the subject docket:

1. Copy of letter from the Chairman, Operating Committee dated October 23, 1957.
2. Copy of letter from the Administrator to the Applicant dated October 23, 1957.
3. Copy of letter from the Administrator to Francis Case, United States Senator, dated October 22, 1957.
4. Copy of letter from Francis Case to the Administrator dated October 5, 1957.
5. Copy of letter from the Applicant to the Administrator dated October 18, 1957.
6. Signed copy of MF-103, which is considered to be Docket No. DMEA 4705 reopened after denial.
7. Routing Control Sheet.

A field examination of the property and a joint report of findings and recommendations pertaining to the Applicant's work proposal are requested. You will note from the Chairman's letter to the Field Team and the Administrator's letter to the Applicant that the Applicant's presence at the time of the examination is required.

A joint report of recommendations based on available information or a joint report of findings and recommendations based on a field examination is requested.

The Bureau of Mines' copy of the application should not be returned to this office, but is to be kept for the Examining Engineer's file. The Routing Control Sheet, however, is to be completed, detached from the application, and forwarded to the Executive Officer with the Joint Examination Report.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

Enclosures

HMC:eh

cc: Sec. Op. Comm. (2)
Docket
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/22	Houk	600
10/23	GCS	130
"	Johnson	110
"	Rittenhouse	100
10/24	gb	220
		600

600

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

OCT 23 1957

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Mr. Harshman:

Please review the subject application and arrange for a re-examination of the property.

Enclosed are three copies of a letter from Senator Francis Case on the subject application, a letter from Mr. Marvin P. Kenoyer, the Applicant, and three copies of a new application. We doubt that any additional information can be developed by correspondence with Mr. Kenoyer and suggest that a re-examination be made of the property, provided the Applicant will be present at the time of the examination.

We are considering this as Docket No. DMEA-4705, reopened after denial. Copies of our reply to Senator Case are also enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Approved:

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

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

Enclosures 11

LGHouk:gad 10/22/57
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
10/22	Houk	600
10/23	Selbridge	130
10/23	Lamb	130
10/23	Kilsgaard	130
"	Johnson	110
"	Mittendorf	100
10/24	gb	220
		600

600

OCT 23 1957

Mr. Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Mr. Kenoyer:

Your new 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. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado, for a re-examination of the property. Naturally your presence at the property will be required at the time of the examination.

The Regional Office will contact you at an early date when the examination is to be made.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

LGHouk:gad 10/22/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region III
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/22	Houk	600
10/22	Selfridge	120
"	Johnson	110
"	Mittendorf	100
		220

600

OCT 22 1957

Hon. Francis Case
United States Senator
Custer, South Dakota

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Senator Case:

Receipt is acknowledged of your letter of October 5, 1957, enclosing Mr. Marvin P. Kenoyer's letter of October 18, 1957, with new application on the Lushbough Property. Receipt is also acknowledged of the list of invoice numbers and dollar amounts of sales to the Custer Depot from the subject property under the name of the Dilley Property.

We are instructing Mr. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, to schedule a re-examination of the property. Mr. Kenoyer will be notified when the examination will be made, and he must be present to discuss his proposal with the Examining Engineers.

We appreciate your interest in this case and will furnish you further information if desired.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

LGHouk:gad 10/22/57
Copy to: Secretary's Reading File
Admr. R. File
DCCO
MR
DL
Field Team, Region III
Mr. Houk

PRS 2641

8623

OFFICIAL FILE COPY
DMEA
RECEIVED
DATE
10/21
10/22 Hoch 600

DENNIS CHAVEZ, N. MEX., CHAIRMAN
ROBERT S. KERR, OKLA.
ALBERT GORE, TENN.
PAT MC NAMARA, MICH.
RICHARD L. NEUBERGER, OREG.
THOMAS A. WOFFORD, S. C.
J. KERR SCOTT, N. C.
EDWARD MARTIN, PA.
FRANCIS CASE, S. DAK.
PRESCOTT BUSH, CONN.
THOMAS H. KUCHEL, CALIF.
NORRIS COTTON, N. H.
ROMAN L. HRUSKA, NEBR.
FILO M. SEDILLO, CHIEF CLERK

United States Senate

COMMITTEE ON PUBLIC WORKS
Custer, South Dakota
October 5, 1957

PRS
OCT 21 1957 2641

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MDM
COPY OF LETTER FURNISHED	
MR DL	
SEND REPLY COPY TO ABOVE	

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

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Liliam Tract)
Custer, South Dakota

Dear Mr. Mittendorf:

Thank you for your letter of September 25th with reference to the above cited application for exploration assistance to Mr. Marvin P. Kenoyer, of Sturgis, South Dakota.

Upon getting your letter, I asked Mr. Kenoyer to go to the Custer Mica Depot operated by the General Services Administration, to see if he could get additional figures with regard to mica sold from the Lushbough Property.

He discovered that there was considerable mica sold from the property when it was known as the Dilley Property--in fact, $1935.79 worth in seven months between December 1955 and June 1956.

He obtained the following Invoice Numbers and dollar amounts from the Custer Mica Depot:

A Program

Invoice No.	Amount
C-525	$41.27
C-509	24.14
Total	$65.41

B Program

C-487	146.28
C-485	42.19 & 111.11
C-479	77.75 & 143.10
C-474	65.75 & 148.15
C-472	18.98 & 222.22
C-468	232.50
C-465	150.06
C-463	322.43
C-460	51.86
C-459	33.90
C-455	104.10
Totals	$1245.80 & 624.58

Doubtless these figures can be verified by your reference to the General Services Administration at the Custer Mica Depot. This would be a substantial addition to the 23.11 pounds of mica sold by Mr. Brown from the property after it became known as the Lushbough Property, and the 21.59 sold by Mr. Kenoyer--which probably would be about $500, bringing the total up to $2,500 to $2,600.

Mr. Kenoyer is also under the impression that considerable mica and other minerals such as beryl were sold to Mrs. Gladys Wells, who buys minerals on a custom basis.

In short, it would appear that this property in a relatively undeveloped stage sold something over $3,000 worth of minerals in approximately a half year's time.

Mr. Kenoyer is making out a new application on the forms you sent him, and it will accompany this letter.

Your further consideration of his application in the light of this evidence will be greatly appreciated.

Sincerely yours,

Francis Case

a

Francis Case, South Dakota

Sturgis, South Dakota
October 18, 1957

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

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer, South Dakota

Dear Mr. Mittendorf:

As suggested in a letter from Mr. W. H. King, Executive Officer, DMEA, Region III, Denver, dated July 2, 1957, I am submitting a new application for government aid in the exploration of my mica project in Custer County, South Dakota.

The information requested on the reverse side of Form MF-103 is not being resubmitted at this time, as it is identical with that which I supplied on my original application. I trust that by reference to my docket number, cited above, you will have available all the necessary details as to property rights, physical description, etc.

From the accompanying letter by Senator Francis Case, you will note that figures we obtained from the Custer Mica Depot show that something over $3,000 worth of minerals was sold from my property in approximately six months' time.

I sincerely hope that in view of this additional evidence of the quantity of minerals that could be produced from my property, you will be able to favorably reconsider my application for assistance in exploration of the project.

Very truly yours,

Marvin P. Kenoyer

Marvin P. Kenoyer

DMEA-Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/25	Houk	600
"	Hanson	110
"	Mittendorf	100
		220

PRS 1828

600
SEP 25 1957

Hon. Francis Case
United States Senator
Custer, South Dakota

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lillian Tract)
Custer County, South Dakota

Dear Senator Case:

This is with reference to your letter of September 18, 1957, to Mr. W. H. King, concerning the application for exploration assistance of Mr. Marvin P. Kenoyer of Sturgis, South Dakota.

We are unable to confirm that a Mr. Brown sold $3,500 worth of mica produced from the Lushbough Property. Our field examination revealed that Mr. Brown sold 23.11 pounds of block and film mica, and Mr. Kenoyer 21.59 pounds of similar material. The dollar value of the sales was not determined. However, the average price received for mica sold recently to the Custer Depot has been between $10 and $13 per pound.

A careful review of all the information submitted in connection with the application and of the report on the field examination made by the DMEA representatives indicates that there is little probability of finding significant reserves of strategic mica and, therefore, Government participation in the proposed work is not justified.

Since our denial of Mr. Kenoyer's application, he has written the DMEA Denver Office that he had done additional work, and on July 2, 1957, that office wrote Mr. Kenoyer and supplied him with new application forms. A copy of this letter is enclosed. To date he has not supplied new evidence so as to reopen the case. We shall be glad to consider a new application if Mr. Kenoyer can supply new information about his property. He should send us details of any new proposal, giving cost estimates for his revised program, and also furnish copies of purchase vouchers from the Custer Depot of any recent sales.

We appreciate your interest in the case and will furnish further information if desired.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

LGHouk:gad 9/25/57
Copy to: Admr. R. File
DCCO
Asst. Secy. Mineral Res.
Division of Legislation
Field Team, Region III
Mr. Houk

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

2 00 PM

September 20, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
9/24	C	220
9/24	Hawk	600

Memorandum

Sent out
1 30 9/25 Hawk 600

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-4705 (Mica) Marvin P. Kenoyer
Lushbough Properties (Lillian Tract)
Custer County, South Dakota

Enclosed for your consideration and reply are the original and one copy of a letter from Senator Francis Case (South Dakota), dated September 18, 1957.

Also attached is a copy of our letter to the Senator acknowledging receipt of his letter.

J. W. Townsend

Enclosures

PRS
SEP 23 1957 1828

TO: MDM	
REPLY TO BE PREPARED BY:	MDM
FOR SIGNATURE OF:	MDM
COPY OF LETTER FURNISHED	
MR DL	
SEND REPLY COPY TO ABOVE	

DENNIS CHAVEZ, N. MEX., CHAIRMAN
JOHN L. MCCLELLAN, ARK.
SPESSARD L. HOLLAND, FLA.
JOHN C. STENNIS, MISS.
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HENRY C. DWORSHAK, IDAHO
FRANK CARLSON, KANS.
FRANCIS CASE, S. DAK.

FRANK BURNETT, CHIEF CLERK

United States Senate

COMMITTEE ON PUBLIC WORKS

Custer, South Dakota
September 18, 1957

DMEA
DEPARTMENT OF THE INTERIOR
SEP 19 1957
REGION III
DENVER, COLORADO

Mr. W. H. King
Executive Officer
Defense Minerals Exploration Administration
224 New Custom House
Denver, Colorado

RE: Docket No. DMEA 4705 (Mica)
Application of Marvin P. Kenoyer of Sturgis, South Dakota, re Lushbough Properties (Lilian Tract), Custer County, South Dakota

Dear Mr. King:

Mr. Marvin P. Kenoyer has contacted me with reference to his application for assistance in exploring and developing for production the above captioned properties, a mining tract located near Custer, South Dakota, with a view to producing mica for sale at the Custer Mica Depot.

This property, I am told, was operated by a Mr. Brown for a period of nine months, during which he sold approximately $3,500 worth of mica while working on an average of from 12 to 15 hours per week, but without opening the property sufficiently to determine its full possibilities and by "high grading" the most available ore with a minimum of expense.

I have not verified this statement but, presumably, your field man made some check on the actual history of the property when he visited Custer.

Mr. Kenoyer, who has been a farmer or rancher along with his mining activities, tells me that he will be winding up his ranch work within the next 10 days, and is anxious to get his property opened up with a view to starting regular operations at the mine this winter or next spring, if the exploratory work indicates that is warranted.

Under the original plan, he would have dropped a vertical shaft about 50 feet, but now plans on drifting directly to the face of the ore body. Other miners and engineers in the area have advised him they think this is the most economical method of determining the values and at the same time putting the property in shape for most economical production.

Mr. Kenoyer has his own air compressor, hammer, pickup truck and the usual hand tools. He needs a Cat tractor and loader.

It would be appreciated if you would review Mr. Kenoyer's application and reconsider it for favorable action at this time. He estimates that he would need between $5,000 and $7,000 in order to prosecute the work to the best advantage for himself and the Government--the possible opening of this property for production of strategic mica.

Sincerely yours,

Francis Case

a

Francis Case, South Dakota

EXTRA COPY DMEA RECEIVED SEP 20 1957		
DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

September 20, 1957

Honorable Francis Case
United States Senator
Custer, South Dakota

Re: Docket No. DMEA-4705 (Mica)
Marvin P. Kenoyer
Lushbough Properties
(Lillian Tract)
Custer County, South Dakota

My Dear Senator Case:

This will acknowledge receipt of your letter dated September 18, 1957, on the captioned DMEA Docket.

Since our files are closed on this Docket we are forwarding your letter to the Washington Office, DMEA, for their attention and reply.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Alternate Acting Executive Officer
DMEA Field Team, Region III

HMC:hmh

cc: Chmn. Op. Comm. (2)
Harshman
DMEA, DFC
Docket
Chron

DENNIS CHAVEZ, N. MEX., CHAIRMAN
ROBERT S. KERR, OKLA.
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FILO M. SEDILLO, CHIEF CLERK

United States Senate

COMMITTEE ON PUBLIC WORKS

Custer, South Dakota
September 18, 1957

DEPT.
SE
MA ER
SE 1957
~~TO MINES~~

Mr. W. H. King
Executive Officer
Defense Minerals Exploration Administration
224 New Custom House
Denver, Colorado

RE: Docket No. DMEA 4705 (Mica)
Application of Marvin P. Kenoyer of Sturgis, South Dakota, re Lushbough Properties (Lilian Tract), Custer County, South Dakota

Dear Mr. King:

Mr. Marvin P. Kenoyer has contacted me with reference to his application for assistance in exploring and developing for production the above captioned properties, a mining tract located near Custer, South Dakota, with a view to producing mica for sale at the Custer Mica Depot.

This property, I am told, was operated by a Mr. Brown for a period of nine months, during which he sold approximately $3,500 worth of mica while working on an average of from 12 to 15 hours per week, but without opening the property sufficiently to determine its full possibilities and by "high grading" the most available ore with a minimum of expense.

I have not verified this statement but, presumably, your field man made some check on the actual history of the property when he visited Custer.

Mr. Kenoyer, who has been a farmer or rancher along with his mining activities, tells me that he will be winding up his ranch work within the next 10 days, and is anxious to get his property opened up with a view to starting regular operations at the mine this winter or next spring, if the exploratory work indicates that is warranted.

Under the original plan, he would have dropped a vertical shaft about 50 feet, but now plans on drifting directly to the face of the ore body. Other miners and engineers in the area have advised him they think this is the most economical method of determining the values and at the same time putting the property in shape for most economical production.

Mr. Kenoyer has his own air compressor, hammer, pickup truck and the usual hand tools. He needs a Cat tractor and loader.

It would be appreciated if you would review Mr. Kenoyer's application and reconsider it for favorable action at this time. He estimates that he would need between $5,000 and $7,000 in order to prosecute the work to the best advantage for himself and the Government--the possible opening of this property for production of strategic mica.

Sincerely yours,

Francis Case

a

Francis Case, South Dakota

OFFICIAL FILE COPY
DMEA
RECEIVED 1957
DATE CODE
7/5 C 220
225

224 New Customhouse
Denver 2, Colorado

July 2, 1957

Mr. Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

Re: Docket No. DMEA 4705 (Mica)
Marvin P. Kenoyer
Lushbough Properties (Lilian Tract)
Custer County, South Dakota

Dear Mr. Kenoyer:

As stated by Mr. C. O. Mittendorf, Administrator, DMEA, in his letter to you of May 31, 1957, your Application was denied only after careful study of all available information indicated that the probability of disclosing significant reserves of mica was not sufficiently promising to justify Government participation.

We will be glad to accept a new Application on the captioned property whenever you feel that you have additional information which would warrant a change in the Government's decision.

In submitting a new Application, please provide the requested information contained on the Form MF-103, Application for Aid in an Exploration Project, four copies of which are enclosed. Particular attention should be given to the description of any new evidence which you feel would justify Government participation.

unable to confirm
reviewed & agen
not aid evidence

Very truly yours,

Original signed by
W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

Enclosures

MHM;prl

cc: Sec. Op. Comm. (2)) w/copy of
DMEA/DFC) Applicant's
Harshman) letter dated
Docket) 6/27/57.
Chron.

RECEIVED
JUN 28 1957
Div. of Mineral Technology
BUREAU OF MINES
Denver Experiment Station
Denver, Colorado

Sturgis, South Dakota
June 27, 1957

E. O. Binyon
U. S. Bureau of Mines
Bldg. 20, Denver Federal Center
Denver, Colorado

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Sir:

Upon my return from Denver I received a letter from Washington, stating that they had rejected my application for a loan.

I have made further investigation since then, and find the sentiment here is so strong concerning the good possibilities of this particular tract, that I feel something more should be done about it.

Exploration is to determine reserves and quality. Quality has been determined by surface mica sold at the Government Buying Station in Custer. The Station is always pleased to get what surface mica I can take them. No exploration has been done to determine the reserves. How can this be decided otherwise? Geology

Now, what I would like to know is: will you recommend work with a caterpillar on the hanging wall side to the extent of 25 feet down and about 60 feet in length? no

I will appreciate an early reply.

Yours very truly,

Marvin P. Kenoyer

Marvin P. Kenoyer

Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

DMEA
DEPARTMENT OF THE INTERIOR
JUL 1 1957
REGION III
DENVER, COLORADO

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/27	Houk	600
5/29	Selfridge	130
5/29	McMahon	130
5/29	Kiilsgaard	130
		100
5/31		220
		225

600 5/29

MAY 31 1957

Mr. Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Mr. Kenoyer:

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

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

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

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

Sincerely yours,

E. O. Mittendorf

Administrator

LGHouk:gad 5/21/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region III
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/27	Houk	Gov

Memorandum

To: Mr. C. O. Mittendorf, Administrator

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

Subject: Evaluation of application and field examination report
Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Denial of application is recommended.

Mica: Scrap grade mica occurs in a discontinuous wall zone about a foot thick (25 and 50 percent).

Pegmatite: 141 feet long with an average thickness of about five feet appears to pinch out rapidly down-dip. Second larger pegmatite is less well exposed and contains no visible mica-rich wall zone and probably no recoverable strategic mica.

Workings: Mining has been confined to an opencut in the northernmost of two pegmatites exposed. The cut is about 85 feet long, 20 feet in average width, and 17 feet deep. 55 feet of the pegmatite has not been mined or explored. No work on the south pegmatite. The dike exposed is 141 feet long, its maximum thickness about 10 feet up-dip from floor of opencut appears to be decreasing and will probably pinch out within 20 feet down-dip.

Estimated reserves: Possible future production of about 2/3 ton of hand-cobbed mica might be recovered from 800 tons of pegmatite remaining work a maximum of $400.00.

Past production: A shipment of 23 pounds 14 ounces of block and film mica was sold to GSA ("A" program, also three lots of hand-cobbed mica "B" program.) The lots totaled 963 pounds.

Applicant's proposal: $140.00 per foot for unspecified amount of shaft sinking and drifting.

Recommendations: The Field Team recommends denial of the application because the mica-bearing pegmatite does not contain strategic quality mica. The Nonmetallic Minerals Division concurs in the Field Team's recommendation as do the Commodity Members of the Bureau of Mines and the Geological Survey.

LGHouk:gad 5/21/57
Copy to: Admr. R. File
Mr. Houk

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 27 1957

DATE	INITIALS	CODE
5/27	C	220
5/27	[illegible]	600

May 24, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4705 (mica)

Applicant: Marvin P. Kenoyer

Name and Location of Property: Lilian Tract, Custer County, South Dakota

Date of Field Team Report: 5/15/57

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 5/21/57

Field Team Recommendation: Recommend denial of application.

Comments:

1. Applicant has requested assistance in exploration of a previously worked small pegmatite.

2. Past production has been meager for tonnage of material mined.

3. Field examiners estimate reserves to be negligible.

Recommendation:

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

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1957

DATE	INITIALS	CODE
5/22	JWL	220
		600
Memorandum:		

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

May 21, 1957
Re: DMEA 4705
Marvin P. Kenoyer
Lilian Tract
Custer County, S.D.
No est.of cost - Mica

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

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

Subject: Review of Field Team Report

The applicant requested assistance in exploring a mica vein (pegmatite) by sinking and drifting. The property is credited with the production of 45 pounds of strategic mica to obtain which the examiners estimate 1,200 tons of pegmatite was mined.

The intermittently zoned pegmatite is exposed for 141 feet, shows a width of up to 10 feet, but appears to be pinching as depth is gained. Another unzoned dike, less well exposed, has a greater width, up to 35 - 45 feet, and is exposed for over 300 feet. It shows only scrap mica in its large exposure and has had no work done upon it.

In the opinion of the examiners, the smaller pegmatite has been sampled and the indicated mica-producing potential is not such as to warrant the indefinite proposed work program. They and the Field Team recommend that the application be denied. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

May 15, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 17 1957

DATE	INITIALS	CODE
5/17	C	220
		130
5/23	C	220
		600

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4705 (Mica) Marvin P. Kenoyer (Lilian Tract) Custer County, South Dakota

Enclosed are the original and three copies of the Joint Report of Examination on the subject property by E. O. Binyon, USBM, and Walden P. Pratt, USGS.

The field examiners conclude that the probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly they recommend that the Applicant's work proposal be denied to which the Field Team concurs.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-22-57
(date)

SM-Site Exam Rpt

IN REPLY REFER TO:

DMEA

DEPARTMENT OF THE INTERIOR

MAY 14 1957

REGION III

DENVER, COLORADO

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Defense Minerals Exploration Administration

Denver Federal Center

Denver, Colorado

TRANSMITTED

MAY 15 1957

May 14, 1957

Memorandum

To: Acting Executive Officer, DMEA Field Team, Region III

From: A. S. Konselman
E. N. Harshman

Subject: DMEA Docket 4705 (Mica), Marvin P. Kenoyer (Lilian tract), Custer County, South Dakota

Enclosed are the original and eight copies of a report by Walden P. Pratt, U. S. Geological Survey, and E. O. Binyon, U. S. Bureau of Mines, covering their examination of the subject property.

The applicant proposed a program of sinking and drifting to explore a small pegmatite body from which some mica has been produced. The estimated cost of the proposed work is not given, but costs of sinking and drifting are estimated at $140 per foot.

The examiners conclude that the mica-bearing pegmatite probably does not continue more than 20 feet below the present workings and that regardless of its depth it does not contain significant amounts of strategic mica.

They recommend, and we concur, that the application be denied.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 17 1957

DATE	INITIALS	CODE
5/22	AB	130
		220

A. S. Konselman
A. S. Konselman
Supervising Mining Engineer

E. N. Harshman
E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
5-22-57
(date)

Enclosures (9)

ENHarshman:arh

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

MAY 15 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 4705

Marvin P. Kenoyer

Lushbough Property--Lilian Tract

Custer County, South Dakota

130 ~~26~~
220

Mica

Joint Geologic and Engineering Report

by

Walden P. Pratt, Geologist
Geological Survey

E. O. Binyon, Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
5-22-57
(2880)

May 13, 1957

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Location, topography, and physical features	3
Ownership and extent	4
History and production	4
Present status	5
Geology	5
Ore reserves	8
Applicant's project proposal	9
Conclusions and recommendations	11

ILLUSTRATIONS

Figure	Follows page
1. Location map, Marvin P. Kenoyer, Lilian Tract, Custer County, South Dakota. DMEA 4705	3
2. Geologic map of the Kenoyer pegmatites, sec. 23, T. 3 S., R. 4 E., Custer County, S. Dak.	11

DMEA 4705

MARVIN P. KENOYER
LUSHBOUGH PROPERTY--LILIAN TRACT
CUSTER COUNTY, SOUTH DAKOTA

SUMMARY

Marvin P. Kenoyer, of Sturgis, South Dakota, applied for Government assistance in exploring for strategic mica in a small pegmatite a mile north of Custer, South Dakota. The applicant proposes to explore by sinking a shaft to an unspecified depth and drifting from the foot of the shaft for unspecified lengths, all at an estimated cost of $140 per foot. Recorded production from the property amounts to a total of about 45 pounds of strategic mica, purchased by the GSA buying station in Custer, and estimated to have come from about 1,200 tons of pegmatite.

The pegmatite is exposed on the surface and in a cut. It is 141 feet long, has an average thickness of about 5 feet, and appears to pinch out rapidly down-dip. The mica has come from a discontinuous wall zone about a foot thick, which contains between 25 and 50 percent mica of scrap grade. It is estimated that about 2/3 ton of hand-cobbed mica might be recovered from the estimated 800 tons of pegmatite remaining, and would be worth a maximum of $400. A second, larger pegmatite is less well exposed on the property but contains no visible mica-rich wall zone and probably contains no recoverable strategic mica.

Denial of the application is recommended.

INTRODUCTION

Marvin P. Kenoyer, Hereford Route, Sturgis, South Dakota, applied to the Defense Minerals Exploration Administration for assistance in exploration for strategic mica on the Lilian Tract of deeded land, Custer County, South Dakota. The applicant requests participation in an exploration program which is to include sinking a shaft and drifting from the bottom of the shaft along the pegmatite at an estimated cost of $140 per foot for shaft sinking and drifting. The depth of the shaft and length of drifts are not stated in the application as both are indefinite; therefore, the total amount applied for is not known.

A field examination, and a Brunton-and-tape survey of the two pegmatites, was made on April 23, 1957, by W. P. Pratt, geologist, Geological Survey, and E. O. Binyon, mining engineer, Bureau of Mines, accompanied by Stanley Kung, Point-4 trainee from Formosa. The applicant was not in Custer and was not present during the examination; however, the program had been discussed briefly with him on a previous visit to the property by the Bureau member of the examining team.

ACKNOWLEDGEMENTS

Special acknowledgement is due to Bernard Gira and others of the General Services Administration at Custer, South Dakota, for information given to the examining team, and to J. A. Redden of the Geological Survey for helpful discussion of the regional geology.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property concerned in the application consists of a deeded tract of about 10 acres in sec. 23, T. 3 S., R. 4 E., Black Hills meridian, Custer County, South Dakota (fig. 1). The property can be reached by driving 1.1 miles north on U. S. Highway 16, starting from the bank building in Custer, to a dirt road opposite the cemetery, then 0.3 mile east on this road.

Relief in the immediate vicinity of the property is low and there are no unusual or outstanding topographic features. The altitude of the property is approximately 5,400 feet. The climate is moderate. Temperatures in the summer seldom reach 90°, and during the winter months the temperature averages well above 0°; however, there are short periods of sub-zero weather. Snowfall is fairly heavy during the winter and early spring, and the spring rains may make travel over dirt roads difficult but not impossible.

The claim area is well timbered with ponderosa pine; other vegetation consists of grasses, cacti, and small cedar shrubs.

There is no water on the property, and the only way of obtaining a water supply is to sink a well; the depth of the water table is unknown. Manpower, small mining equipment and supplies can be obtained in Custer, a station on the Chicago Burlington & Quincy Railroad and a supply center for the surrounding community.

There are no electric power lines on the property, but power can be obtained from transmission lines serving the city of Custer.

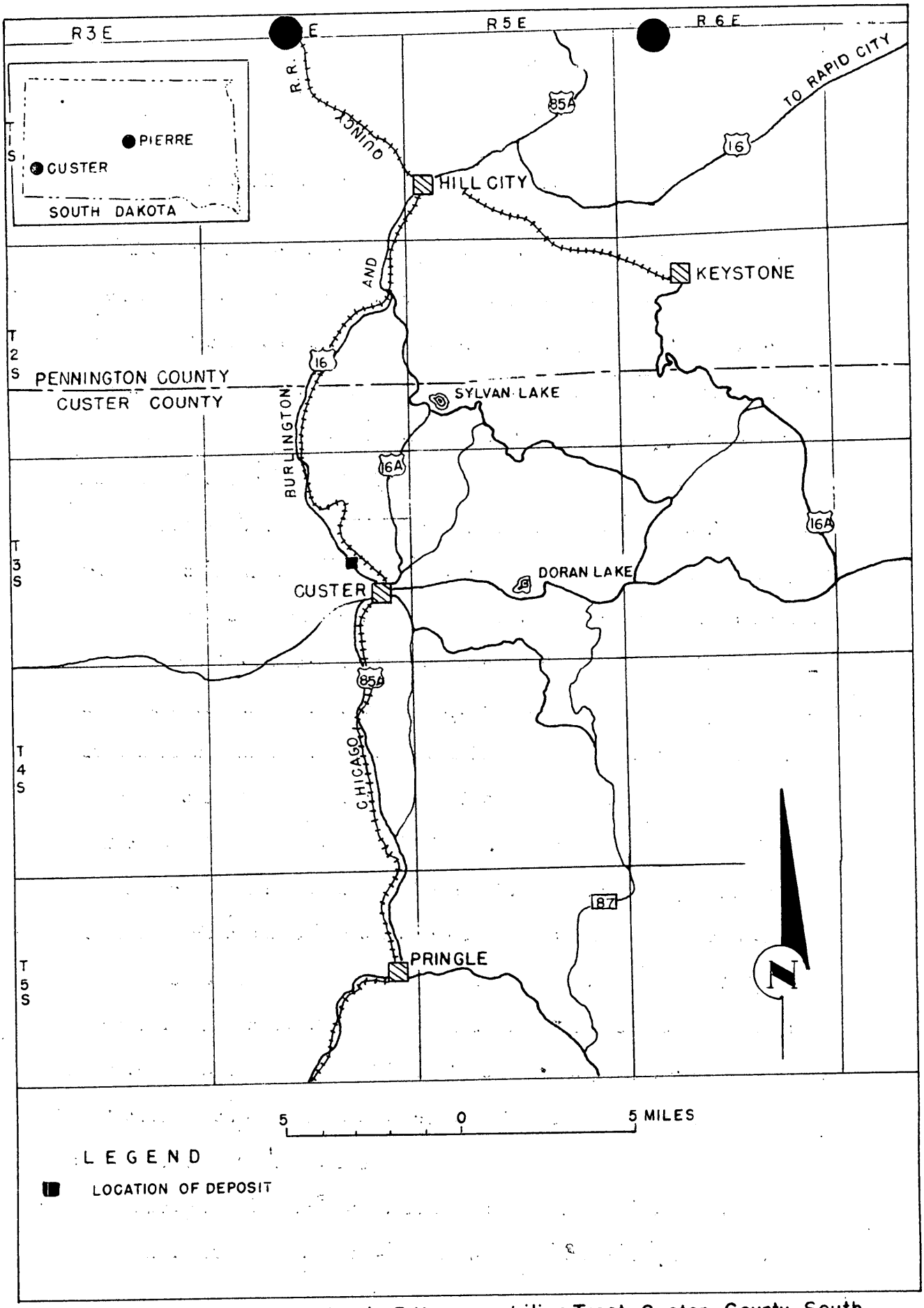

Figure 1 - LOCATION MAP, Marvin P. Kenoyer, Lilian Tract, Custer County, South Dakota. DMEA 4705.

OWNERSHIP AND EXTENT

Allen A. Lushbough and Lillian C. Lushbough, Sturgis, South Dakota, are owners of the irregular tract of land known as the Lilian Tract. The applicant, Marvin P. Kenoyer, holds a one-year mining lease dated November 20, 1956, with an option for renewal for nine years. The area of the entire tract is 9.79 acres (measured from sketch), but the applicant has excluded a 0.77-acre trapezoidal-shaped portion that lies on the west side and 100 feet from the south boundary of the tract.

A check of the records at the Register of Deeds' office in Custer shows the plot to be as described by the applicant.

HISTORY AND PRODUCTION

Little is known about the history of the property. A man named Brown sold 23 pounds 14 oz. of block and film mica ("A" program) to the General Services Administration mica depot and reported the shipment having come from this property. The records of the GSA also show purchase of three lots of hand-cobbed mica ("B" program) which were mined by the applicant from the partly explored pegmatite on the property. The lots totaled 963 pounds and the average total yield of good-stained, stained, and heavy-stained mica was 2.28 percent or 21.588 pounds--only slightly better than the minimum yield required. Of this total 4.73 percent or 1.0222 pounds was good-stained or better

quality, 14.808 pounds or 68.60 percent was stained, and the remaining 5.758 pounds was of heavy-stained quality.

PRESENT STATUS

Exploration, development and mining have been confined to an open-cut in the northernmost of the two pegmatites exposed on the property. This cut is about 85 feet long, about 20 feet in average width, and about 17 feet deep. The north 55 feet of the pegmatite has not been mined or explored. No work has been done on the south pegmatite.

It should be noted that the sketch map submitted with the application shows two pegmatite dikes, but the one labeled "unexplored" is shown about 250 feet northwest of the one labeled "now being explored." The examining team did not see a dike northwest of the one being explored, and it is assumed that the two dikes on the applicant's map are labeled erroneously.

Equipment on the property consists of a jackhammer, air hose, tractor-driven hayloader, and miscellaneous small tools. A small house trailer, used for living quarters, is also on the property.

GEOLOGY

The Kenoyer pegmatites are in a region of abundant pegmatites intruded into metamorphic rocks southwest of the granitic intrusive area of the Black Hills. The country rock surrounding the Kenoyer dikes is a well-foliated muscovite-biotite schist, but according to

J. A. Redden the dikes are, at most, a few tens of feet east of a contact with garnetiferous biotite schist. The garnet schist was not seen during the examination.

The northernmost of the two dikes (fig. 2), and the one the applicant proposes to explore, is a feldspar-muscovite-quartz pegmatite and is crudely divisible into a "wall zone" and a "core." The "wall zone" is developed along both sides of the dike, but is present only locally; it was observed in a few places in the cut, but not north of the cut. The zone is about a foot thick and consists mainly of interlocking muscovite plates as much as 8 inches wide but generally 2 to 3 inches wide, with interstitial quartz and feldspar. The mica constitutes roughly 25 to 50 percent of the zone. A few pods of lithiophilite-triphylite were also noted in the "wall zone," next to the foot wall. The "core" is fairly homogeneous and contains about 70 percent quartz, 15 percent muscovite, 15 percent feldspar, and traces of black tourmaline. A few pieces of beryl seen on the stock pile are presumed to have come from this dike, but no beryl was seen in place.

The dike as exposed is 141 feet long and a maximum of about 10 feet thick. It dips about 40° southwest and is generally concordant with the foliation of the schist, although its undulating contact locally cuts across the schist at small angles. The dike attains its maximum thickness about 10 feet up-dip from the floor of the opencut and, in its lowest exposure in the face of the cut, its thickness

appears to be decreasing, so that it would probably pinch out altogether within about 20 feet down-dip. This interpretation may, however, be influenced by the undulation of the contact, and a purely objective figure for the maximum depth of the dike would be 70 feet, half the length of the outcrop.

The southern dike is considerably larger (fig. 2), but is of a slightly different composition and probably does not warrant any exploration for mica. Except for a chilled wall zone an inch thick, it is homogeneous and contains an estimated 60 percent feldspar, 35 percent quartz, 3 percent black tourmaline, and 2 percent muscovite; the content of the chilled zone is probably the same. The muscovite is distributed evenly throughout the dike, and is of scrap grade. This dike is less well exposed than the other, but its contacts with the schist, where exposed, are smooth and straight and form small southwest-dipping scarps and overhangs, the pegmatite protruding a few feet above the schist. The dip of the outer contact of the pegmatite is steeper on the east side (50° to 62° SW) than on the west (47° SW), and the present erosion surface may cut the dike above its central bulge; consequently the down-dip extent cannot be estimated. Two poorly exposed bodies of schist occur within the pegmatite, and are probably pendants.

ORE RESERVES

The irregular pod-like nature of the wall zone exposed makes it impossible to reasonably estimate the mica reserves by a simple calculation of the amount of wall-zone rock remaining; it is more reasonable to project the entire pegmatite to depth and thus estimate the tonnage of (mica-bearing) pegmatite remaining. A very rough estimate of the reserve tonnage of mica can then be obtained by calculating the ratio of mica already produced to the pegmatite mined, and by applying the same ratio to the amount of pegmatite remaining. Reserves are estimated for the north dike only. This dike has been mined for a strike length of 80 feet, and no wall zone was observed on the surface north of the cut; but because of the wall-zone mica exposed in the north face of the cut, the length of the supposed ore body is arbitrarily extended to 100 feet.

Assuming a tabular pegmatite body 100 feet long, 5 feet thick, and 20 feet deep:

Volume = 100 x 5 x 20 = 10,000 cu. ft.

Weight = 10,000/12.5 = <u>800 tons of pegmatite</u>

The amount of pegmatite already mined is estimated as follows:

Volume = 75 x 8 x 25 = 15,000 cu. ft. (pegmatite only--not entire cut)

Weight = 15,000/12.5 = <u>1,200 tons of pegmatite</u>

Mica produced from this 1,200 tons totaled about 45 pounds (see History and Production). The prices for cut mica are so dependent on

size and grade that it seems more advisable to use the equivalent tonnage of hand-cobbed mica:

	Cut	Hand-cobbed
Kenoyer	21.588 lbs.	963 lbs.
Brown	23.114 lbs.	1,030 lbs. (est.)
	44.702	1,993 lbs. = about 1 ton

Using this ratio of 1 ton of hand-cobbed mica to 1,200 tons of pegmatite, the reserve of 800 tons of pegmatite would yield 2/3 ton of hand-cobbed mica.

APPLICANT'S PROJECT PROPOSAL

As the applicant was not present during the examination the proposed work could not be discussed with him. However, on a previous visit to the property by the Bureau of Mines member of the examining team the applicant stated that he wished to sink a shaft in the hanging wall and near the center along the length of the pegmatite. The depth of the shaft would depend on the depth of the deposit. From the bottom of the shaft drifts would be driven in both directions along the deposit.

No estimate of the depth of shaft or the amount of drifting to be done was given in the application. A total unit cost of $140 per foot for shaft sinking presumably is estimated. The breakdown of the unit cost is as follows:

	Cost per foot
Labor supervision and Consultants	
Labor and supervision by applicant	$ 25.00
Labor, 2 men at $2.00 per hour	55.00
Operating material and supplies	
Air hose, steel, bits, hand tools, timber, powder, lagging, gasoline, oil, fuse, caps, etc.	50.00
Operating Equipment	
Compressor ($500.00), hammer ($415.00), hoist ($800.00), pick-up ($1,000.00), all to be furnished by the applicant. ($5.00 per unit foot use allowance)	5.00
Rehabilitation and repairs	---
New buildings, improvements, installations	
Hoist house at $500.00 ($5.00 per unit foot)	5.00
Miscellaneous	
Repairs to and maintenance of operating equipment ($10.00 per unit foot). One half to be furnished by the applicant.	5.00
Contingencies	---
Total estimated cost	$145.00 per foot

It appears that the applicant is to bear the expense of his labor and supervision, operating equipment and one half of miscellaneous charges or a total of $35.00 per foot as his share of the cost.

CONCLUSIONS AND RECOMMENDATIONS

The examining team concludes that the mica-bearing pegmatite probably does not extend more than about 20 feet below the present floor of the cut, and that it most probably does not contain significant reserves of strategic mica regardless of its depth. The mica reserves calculated on the basis of extension to 20 feet, at an average thickness of 5 feet, are about 2/3 ton of hand-cobbed mica, which at the maximum price of $600 per ton would be worth $400. The attempt to discover an ore body of this value does not seem to warrant Government assistance, and it is recommended that the application be denied.

DMEA
DEPARTMENT OF THE INTERIOR

APR 16 1957
REGION III
DENVER, COLORADO

April 15, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Reg. III

From: Superintendant, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4705 (Mica) Marvin P. Kenoyer (Lushbough Property - Lilian Tract) Custer County, South Dakota

The application for Marvin P. Kenoyer, Docket DMEA 4705, was received in this office on April 15, 1957.

A field examination will be made and suitable report prepared by an engineer from the Denver office.

W. H. KING

W. H. King

cc: Executive Officer (2)
E. N. Harshman
J. F. Shaw

OFFICIAL FILE COPY
DMEA
RECEIVED APR 22 1957

DATE	INITIALS	CODE
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WO(2)

OFFICIAL FILE COPY
DMEA
RECEIVED APR 15 1957

DATE	INITIALS	CODE
4/15	C	220
		600

224 New Customhouse
Denver 2, Colorado

April 12, 1957

Memorandum

To: W. H. King, E. N. Harshman } W/enclosures, ~~Items 1-6 Below~~

From: DMEA Field Team, Region III

Subject: Docket DMEA-4705 (Mica) Marvin P. Kenoyer (Lushbough Property - Lilian Tract) Custer County, South Dakota

Enclosed is the following material relating to the subject docket.

1. Copy of application for Government assistance in exploration work under the DMEA program.
2. Memorandum of Review by W. F. Dietrich, USBM.
3. Memorandum of Review by N. E. Nelson, USGS.
4. Letter of transmittal of the foregoing to this office, dated April 9, 1957, from the Chairman, Operating Committee, DMEA.
5. Routing control sheet.
6. Letter to Applicant dated March 9, 1957, from C. O. Mittendorf, Administrator, DMEA.

A joint report of recommendations based on available information or a joint report of findings and recommendations based on a field examination is requested.

Instead of the customary two copies being sent, only one copy of the application was returned by the Washington Office for referral to the field examiners so Region III's docket copy is enclosed.

If a field examination is warranted, the property should be viewed from the position of finding Mica of strategic grade only.

If the field examiners recommend Government participation in the proposed exploration program, please submit twelve extra copies of each map used in the joint report which show the land to be subordinated and the location and extent of recommended work, relative to property boundaries.

Region III's docket copy of application should be returned to this office with the joint report of examination. Mr. Harshman will forward the Survey's copy of the application to the Washington office.

Original signed by
E. N. HARSHMAN

By E. N. Harshman
Acting Executive Officer

Enclosures

MHM:eh
cc: Sec. Op. Comm. (2)
King
Docket
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 15 1957

DATE	INITIALS	CODE
4/15	C	220
		600

224 New Customhouse
Denver 2, Colorado

April 9, 1957

Mr. Raymond J. Fox
P. O. Box 512
Custer, South Dakota

Re: Docket MEA-4705 (Mica)
Marvin P. Kemoyer
(Lilian tract)
Custer County, South Dakota

Dear Mr. Fox:

Reference is made to your letter of April 4, 1957, whereby you inquired whether lump-sum loans could be made by the Defense Minerals Exploration Administration, for the purchase of equipment for exploratory work, in addition to or independent of, Government participation in the exploratory work.

The Defense Minerals Exploration Administration does not make such loans; however, Government participation in an exploration project does include the applicable share of depreciation and operating expenses of necessary equipment, including minor repairs.

Enclosed is a copy of MEA Order No. 1, Amended, and a copy of a pamphlet of questions and answers concerning the Defense Minerals Exploration program. These items will answer many of the future questions which may come up in connection with the MEA program.

Yours very truly,

Original signed by
E. N. HARSHMAN
E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JDC:hh

Enclosures

cc: Chmn. Op. Comm. (2)
Harshman
Shaw (2)
Docket Corres. Reg. III
Chron.
) w/copy Mr. Fox letter of 4/4/57

RAYMOND J. FOX
LAWYER
~~XXXXXXXX~~SOUTH DAKOTA
Custer,

P. O. Box 512

DMEA
DEPARTMENT OF THE INTERIOR
APR 8 - 1957
REGION III
DENVER, COLORADO

OFFICIAL FILE COPY
DMEA
RECEIVED APR 15 1957

DATE	INITIALS	CODE

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Kenoyer Application

Dear Mr. Traver:

At the time that I transmitted the Kenoyer application to you, I asked whether it is possible for a miner to get a loan in a lump sum for the purpose of purchasing equipment to do exploratory work. Such a lump-sum advance would either be in addition to, or independent of seventy-five per cent (75%) of the valuation placed upon each unit of work done.

Since several other people have asked me this question, I should appreciate your advising me at the earliest possible date.

Cordially,

RJF:bjt

April 4, 1957

224 New Customhouse
Denver 2, Colorado

April 9, 1957

EXTRA COPY DMEA RECEIVED		
DATE	[illegible]	CODE

Mr. Raymond J. Fox
P. O. Box 512
Custer, South Dakota

re: Docket DMEA-4705 (Mica)
Marvin P. Kenoyer
(Lilian tract)
Custer County, South Dakota

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Yours very truly,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JDC:hh

Enclosures
cc: Chmn. Op. Comm. (2)
Harshman
Shaw (2)
Docket Corres. Reg. III
} w/copy Mr. Fox letter of 4/4/57

Chron.

RAYMOND J. FOX
LAWYER
~~XXXXXXX~~ SOUTH DAKOTA
Custer,

P. O. Box 512

DMEA
DEPARTMENT OF THE INTERIOR
APR 8 - 1957
REGION III
DENVER, COLORADO

EXTRA COPY
D M E A
RECEIVED APR 15 1957

DATE	INITIALS	CODE

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Kenoyer Application

Dear Mr. Traver:

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Since several other people have asked me this question, I should appreciate your advising me at the earliest possible date.

Cordially,

RJF:bjt

April 4, 1957

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/8	Houk	600
4/8	Selfridge	130
"	Johnson	110
"	Gottschalg	100
4/9	C	220
		600

600

APR 9 - 1957

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Dear Mr. Harshman:

Please review the subject application and arrange for a field examination if you deem it necessary.

Please note the costs are high, the mica recovery low, and the amount of work indefinite.

Copies of memoranda dated April 2 and 4, 1957, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

Frank D. Lamb
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

LGHouk:gad 4/8/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Enclosures 5

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/8	Houk	600
4/8	Selfridge	130
"	Johnson	110
"	Mittendorf	100
		220

600

APR 9 - 1957

Mr. Marvin P. Kenoyer
Hereford Route
Sturgis, South Dakota

Re: Docket No. DMEA-4705-Mica
Marvin P. Kenoyer
Lushbough Property (Lilian Tract)
Custer County, South Dakota

Lamb
Kilsgaard

Dear Mr. Kenoyer:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado, for further consideration and possibly a field examination.

Reference is made to the letter of March 21, 1957, from Mr. Raymond J. Fox to Mr. W. M. Traver. The exemption of a portion of the leased area by the Consent to Lien and Subordination Agreement may or may not be allowed, and will depend upon the results of the Field Team examination, and the geological relationship of the exempted area to the area to be explored.

The request for a lump sum for purchase of operating equipment by Mr. Fox seems unusual. You list in Section 6 (d) of the application, operating equipment and dollars (presumably present value), and in Section 7 (b) you have indicated that you intend to furnish your portion of the cost by use of equipment owned by you. Please provide the Examining Engineers with a list of equipment owned by you, its present market value, capacity, and operating condition, also a list of equipment you desire to rent or buy (with the specifications), giving rents and purchase prices.

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 4/8/57
Copy to: Admr. R. File
Operating Committee
Field Team, Region III
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 4 1957

DATE	INITIALS	CODE
4/5	C	220
		600
April 4, 1957		

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-4705 (mica)

Applicant: Marvin P. Kenoyer

Name and Location of Property: Lilian Tract, Custer County, South Dakota

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 3/29/57

Comments:

1. Applicant states that he has recovered 718 pounds of cobbed mica, of which 21 pounds 9½ ounces were fair, good stained, stained and heavy stained, from a mica vein deposit.

2. Proposed exploration cost of $140.00 per foot for shaft sinking and drifting is more than three times similar DMEA exploration projects.

3. It appears a field examination is necessary to determine the feasibility of a project.

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

IN REPLY REFER TO:

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

April 2, 1957
Re: DMEA 4705
Marvin P. Kenoyer
Lilian Tract
Custer County, S. D.
No estimate of cost - Mica

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring a mica vein which shows some beryl. Surface work produced 21 pounds, 9½ oz. of fair, and good stained, stained and heavy stained mica. The proposed work consists of sinking and drifting at an estimated cost of $140 per foot. No footages are given, presumedly the footage will depend on results.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED APR 2 1957

DATE	INITIALS	CODE
4/3	C	220
4/3	H	600

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

March 29, 1957.

Mr. Marvin P. Kenoyer,
Hereford Route,
Sturgis, South Dakota.

Subject: DMEA 4705

Dear Mr. Kenoyer:

Your application for exploration assistance, dated February 26, 1957, submitted to our office at Denver, Colorado, has been assigned Docket Number DMEA 4705 and referred to the Nonmetallic Metals 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 III.

6416

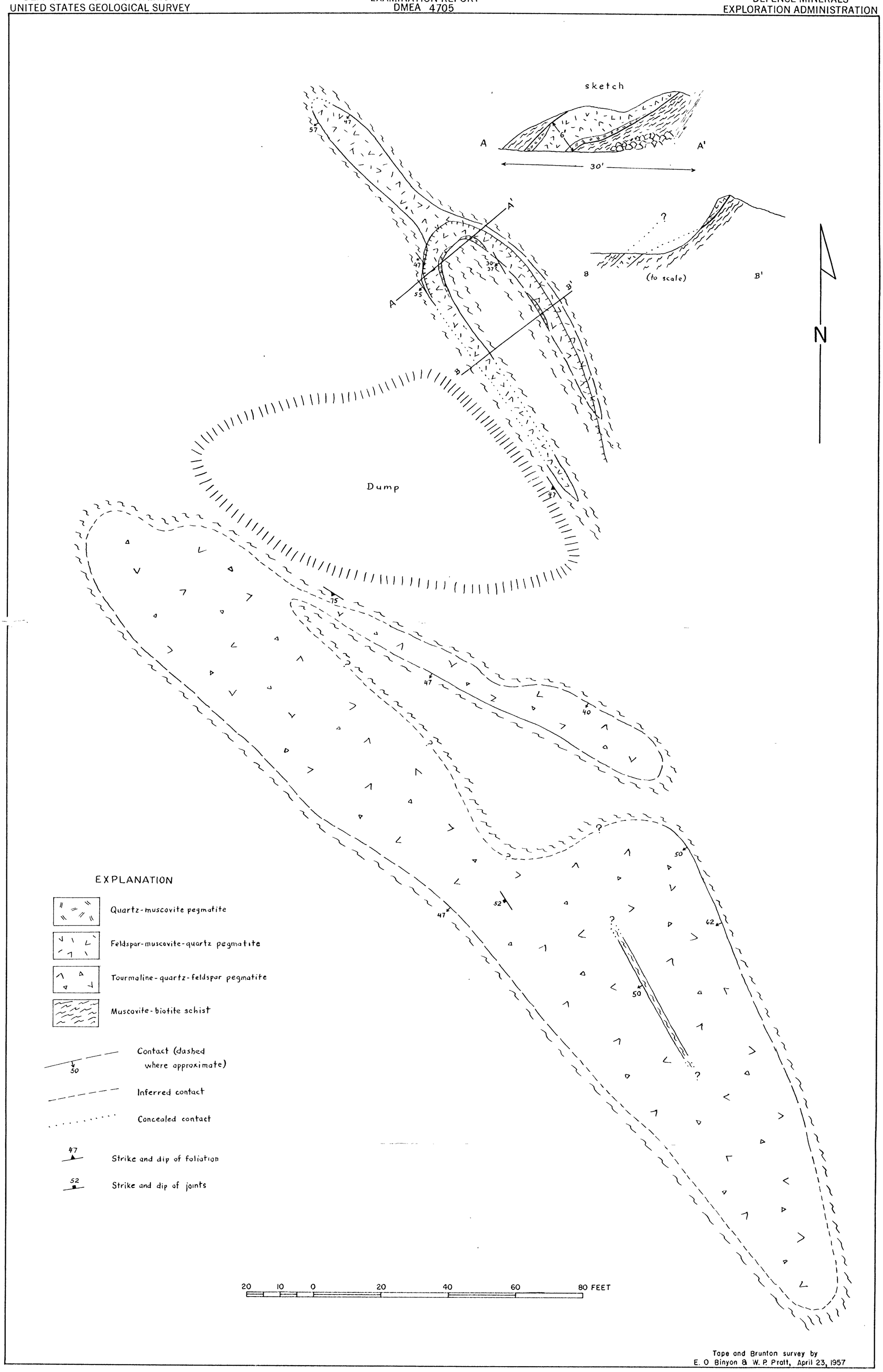

FIGURE 2. GEOLOGIC MAP OF THE KENOYER PEGMATITES
SEC. 23, T. 3 S., R. 4 E., CUSTER COUNTY, S. DAK.

DMEA DOCKET 4705