Contrib
Unemployed
Region VIII

[illegible] Stoker Swanson, Grafton, New Hampshire

Applicant proposes JVNO project, expected to run two weeks. Applicant gives no evidence that pegmatite has any showing as strategic mica or beryl. The field team can check this in connection with others in the area. Separate examination trip not justified. Applicant probably needs help in laying out a simple exploration program.

FILE COPY
SURNAME:

Barr

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

July [illegible], 1951

Memorandum

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch, [illegible]

Subject: 7A-1[illegible]-4; Mica and Beryl
Henry and Arthur Sorensen
[illegible] Franklin Street
Lynn, Massachusetts

Denial recommended because:

1. No sound geologic basis to warrant exploration

2. Examination by Field Team failed to produce evidence of Beryl and strategic grade Mica.

We are enclosing the following:

1. Memo from Mr. Lyon to Field Team, Boston [illegible]

2. Report on application for exploration assistance

James Barr

James [illegible] Barr, Jr., Chief

Approved:

Tom Lyon

Tom Lyon, Director
Defense Minerals

DMAmac

cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA Files

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

Q. E. C.

July 9, 1951

Memorandum

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1106-X; Mica and Beryl
Henry and Arthur Sorenson
57 Brunswick Street
Quincy, Massachusets

Denial recommended because:

1) No sound geologic basis to warrant exploration

2) Examination by Field Team failed to produce evidence of Beryl and strategic grade Mica.

We are enclosing the following:

1) Memo from Mr. Lyon to Field Team, Region VIII

2) Report on application for exploration assistance

James A. Barr

James A. Barr, Sr., Chief

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

FILE COPY
SURNAME:
Barn

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

[illegible], 1951

[illegible]
[illegible] Street
[illegible], Mass.

Subject: [illegible]-11 [illegible]

Gentlemen:

Your application [illegible] an exploration project [illegible] deposit located near [illegible] and [illegible] has been reviewed by this office.

Projects approved by the Defense Minerals Administration must, in its judgment, show [illegible] material of acceptable grade, physical character and quantities, [illegible] will [illegible] the mineral [illegible].

A very careful [illegible] revealed the following:

1. [illegible]

2. [illegible]

[illegible]

[illegible],

Enclosure

cc: Records and Reports Unit [illegible]
Mr. Lyon
Mr. Dorr
DMA Files
[illegible] (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON, D.C.~~
College Park, Maryland

June 26, 1951

Memorandum

To: Tom Lyon, Chairman
Coordinating Committee

From: Executive Officer
Field Team, Region VIII

Subject: Docket DMA-1106

Attached in quadruplicate is the field team's report on Docket No. 1106, prepared by H. P. Nicholson (USBM) and Glenn W. Stewart (USGS) on an application for exploration assistance.

It is recommended that no assistance be extended by the Government for exploration work on this deposit.

McHenry Mosier

McHenry Mosier

Attachments (4)

Only 1 copy of #103 + it was

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 27 1951
LANDON F. SINGSEL
Executive Secretary

REPORT ON APPLICATION FOR EXPLORATION ASSISTANCE

DOCKET 1106

COMMODITY Mica and Beryl

NAME. Henry and Arthur Sorenson
Grafton, New Hampshire
(Home - 57 Brunswick Street, Quincy 71, Mass.)

LOCATION. On Prospect Hill approximately three miles southwest of Grafton, Grafton County, New Hampshire.

CONCLUSIONS. Due to the absence of beryl and strategic mica in any of the existing exposures of the pegmatite examined on the property of Mr. Sorenson, exploration assistance is not recommended.

SORENSON PROSPECT

Grafton, Grafton County, N. H.

LOCATION. To reach the prospect turn left on U. S. Highway No. 4 0.3 mile northwest of the railroad station in Grafton. Cross the railroad and follow a gravel road 0.3 of a mile to a fork. Bear to the right and continue for about 2.0 miles to Robinson Corner. Turn right and travel 1.5 miles to the Sorenson property. The prospect is on the top of a small knoll 0.2 mile south of the farm buildings.

GEOLOGICAL SUMMARY. A coarse grained pegmatite, at least 200 feet long and 10 to 65 feet wide, strikes N.20° to 40° W. and dips 70 to 80 degrees southeast. It is parallel to the foliation of the inclosing quartz-mica schist.

The pegmatite has not been tested by hand or jackhammer drilling and exposures are too small and infrequent to observe the actual zoning of the pegmatite. However, there appears to be a very coarse grained quartz-perthite core, a medium grained wall zone and a fine-grained border zone. The core may be as much as 30 feet thick in places.

No beryl crystals were visible and most of the books of muscovite mica were wedge-shaped and small, not more than one inch thick and four inches across. The mica was ruled, cracked, and had numerous magnetite inclusions.

After an examination of the existing pegmatite exposures several other places were uncovered by hand, but no quanity of muscovite was observed.

The microcline-perthite feldspar intimately intergrown with quartz has a poor quality.

RECOMMENDATIONS. Due to the small amount and poor quality of the muscovite mica and the absence of beryl in the existing exposures, the pegmatite does not appear to warrant any exploratory assistance.

Submitted June 22, 1951 by:

/s/ Glenn W. Stewart
U. S. Geological Survey

/s/ Hugh P. Nicholson
U. S. Bureau of Mines

REPORT ON APPLICATION FOR EXPLORATION ASSISTANCE

DOCKET 1106

COMMODITY Mica and Beryl

NAME. Henry and Arthur Sorenson
Grafton, New Hampshire
(Home - 57 Brunswick Street, Quincy 71, Mass.)

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After an examination of the existing pegmatite exposures several other places were uncovered by hand, but no quantity of muscovite was observed.

The microcline-perthite feldspar intimately intergrown with quartz has a poor quality.

RECOMMENDATION. Due to the small amount and poor quality of the muscovite mica and the absence of beryl in the existing exposures, the pegmatite does not appear to warrant any exploratory assistance.

Submitted June 22, 1951 by:

/s/ Glenn W. Stewart
U. S. Geological Survey

/s/ Hugh P. Nicholson
U. S. Bureau of Mines

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1106

Commodity Mica Beryl

Total Amount $700.00

Govt. Participation 90%

1. Name and Address of Applicant Henry and Arthur Sorenson
58 Brunswick St., Quincy 71, Massachusetts

2. Location of Property Grafton New Hampshire

3. Mineral or metal Mica - Beryl Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

Applicant gives no evidence that pegmatite has any showing of strategic mica or beryl. He should submit evidence to this effect. The description is so poor that the field team would have to report. I suspect the exploration possibilities are very poor.

d) Don't know—needs field examination Yes - Needs more information JAR 6/11/51

e) Is there an alternative and favorable project? _____
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes. owner
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? Not Applicable

Does the lease have sufficient time to run to cover a future productive period? Not Applicable

*question numbers are those of MF-103

7. Are subordination agreements necessary? NO

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower yes

b) Equipment and supplies yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* yes

d) Water (question 13)* yes

e) Power (question 13)* yes

Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* yes, for a simple initial Program

Is a field check needed on this point? NO

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Yes, if the attached letter represents from 103

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? NO

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable? Insufficient data

f) Should more information be requested from applicant? yes

g) Is a field examination necessary to complete Exhibit A? yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Not Applicable

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed? NO

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? yes

b) Sufficient data? NO If so, attach a draft.

c) Are rents and charges reasonable? Insufficient data

d) Is a field check needed? yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? NO

b) Is the schedule adequate for the work proposed? Insufficient data

c) Is the schedule excessive for the work proposed? — —

d) Are the proposed wages and salaries reasonable? — —

e) Is a field check needed? yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Not Applicable

b) Sufficient data?

c) Reasonable?

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? No, not in the two weeks proposed

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Field Team can check this in connection with others in same area - Separate examination trip not justified - Do any outcrops or float indicate existence of Beryl on Mica on this property? If so enough to warrant the small sum Requested? Applicant probably needs help in laying out a simple exploration Program - If this is done have applicant send in sufficient details of cost, etc. to enable processing of contract

Reviewed by: J.R.K. 6/11/51

Date 6/12/51

MW

97692

FILE COPY
SURNAME:

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

May 7, 1951

Mr. Henry Sorenson
58 Brunswick Street
Quincy 71, Massachusetts

Subject: DMA-1106
Re: Loan - $700.
(New Hampshire)

My dear Mr. Sorenson:

Receipt is acknowledged of your application and attachments of May 1 for a Government loan under the Defense Production Act of 1950.

The application was assigned Docket Number 1106 and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch, on May 4.

In any future correspondence relating to your application, kindly refer to DMA-1106.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:aec
copies to Strobel-2
Files
Mr. Barr
Mr. Lyon

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma 1106

Date received 5/3/51

Participation

Henry and Arthur Sorenson
58 Brunswick Street
Quincy 71, Massachusetts

Name and address of applicant

Date May 1, 1951

FILL IN THIS BLOCK

Date of application May 1, 1951

Estimated cost $700.00

Mineral or metal Mica- Beryl -

Percentage of Government participation 90%

Location of mine Grafton, New Hampshire

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

Dma 1106 (Emr.)

8 36

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

H-A Mining Co
(Name of company)

By Henry G. Sorenson
(Signature of authorized official)

May 1st 1961
(Date)

Supervisor & Owner
(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma 1106

Date received 5/3/51

Participation

Henry and Arthur Ferguson
90 Brunswick Street
Quincy 71, Massachusetts

Name and address of applicant

Date May 1, 1951

FILL IN THIS BLOCK

Date of application May 1, 1951

Estimated cost $700.00

Mineral or metal Mica - Beryl -

Percentage of Government participation 90%

Location of mine Grafton, New Hampshire

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
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    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
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    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

H. A. Mining Co
(Name of company)

By Henry G. Sorenson
(Signature of authorized official)

May 1st 1951
(Date)

Supervisor & Owner
(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

April 21, 1951

Mr. Henry R. Sorenson
58 Brunswick Street
Quincy 71, Massachusetts

Subject: Exploration Program

Dear Mr. Sorenson:

Thank you for your letter of March 7, 1951 regarding Government assistance for the exploration, development and mining of strategic minerals.

Under the Defense Act of 1950 an applicant having proven reserves of strategic minerals can obtain a procurement contract for such minerals as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The program recently approved for encouragement of exploration of strategic minerals calls for participation on the part of the applicant, as shown in Sec. 9 (a) (b) and (c) of the attached Regulation MO-5.

The details of the plan, explaining the projects that will be eligible for assistance, the terms and schedules of financing, repayment, and other pertinent information are enclosed.

Please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration by completing the enclosed Forms MF-103, so that we can proceed further with consideration of your application, which may or may not require a field examination.

Sincerely yours,

James Barr

James A. Barr, Sr., Chief
Industrial Minerals Branch

JAB:mec
Ext 5273

Enclosures 6

cc: Mr. Barr
Mr. Strobel
F I L E S

March 7th 1951

LANDON F. STROBEL

Dear Sirs

Would like you to send me detailed instructions in regard to Grub-Stake program for Prospectors & Miners. I'm located in Grafton N.H. with a proven location of Opica, Beryl Spar. I own about a 300 acre tract. The main vein of minerals running thru this location. I feel sure that this will bring forth the minerals that are wanted by the Bureau.

Kindly let me know as soon as possible what the proposition is because I'm very interested. Thanking you I am,

Henry P. Sorenson
55 Brunswick St
Quincy #71
Mass.

MAR 15 10 11 AM '51
WASHINGTON D.C.
BUREAU OF MINES

4/13/57 Barr-rugby

A.E.C.

REPORT ON APPLICATION FOR EXPLORATION ASSISTANCE

DOCKET 1106

COMMODITY Mica and Beryl

NAME. Henry and Arthur Sorensen
Grafton, New Hampshire
(Home - 57 Brunswick Street, Quincy 71, Mass.)

LOCATION. On Prospect Hill approximately three miles southwest of Grafton, Grafton County, New Hampshire.

CONCLUSIONS. Due to the absence of beryl and strategic mica in any of the existing exposures of the pegmatite examined on the property of Mr. Sorensen, exploration assistance is not recommended.

SORENSON PROSPECT

Grafton, Grafton County, N. H.

LOCATION. To reach the prospect turn left on U. S. Highway No. 4 0.3 mile northwest of the railroad station in Grafton. Cross the railroad and follow a gravel road 0.3 of a mile to a fork. Bear to the right and continue for about 2.0 miles to Robinson Corner. Turn right and travel 1.5 miles to the Sorenson property. The prospect is on the top of a small knoll 0.2 mile south of the farm buildings.

GEOLOGICAL OUTLINE. A coarse grained pegmatite, at least 200 feet long and 10 to 65 feet wide, strikes N.20° to 40° W. and dips 70 to 80 degrees southwest. It is parallel to the foliation of the inclosing quartz-mica schist.

The pegmatite has not been tested by hand or jackhammer drilling and exposures are too small and infrequent to observe the actual zoning of the pegmatite. However, there appears to be a very coarse grained quartz-perthite core, a medium grained wall zone and a fine-grained border zone. The core may be as much as 30 feet thick in places.

No beryl crystals were visible and most of the books of muscovite mica were wedge-shaped and small, not more than one inch thick and four inches across. The mica was ruled, cracked, and had numerous magnetite inclusions.

After an examination of the existing pegmatite exposures several other places were uncovered by hand, but no quantity of muscovite was observed.

The microcline-perthite feldspar intimately intergrown with quartz has a poor quality.

RECOMMENDATIONS. Due to the small amount and poor quality of the muscovite mica and the absence of beryl in the existing exposures, the pegmatite does not appear to warrant any exploratory assistance.

Submitted June 22, 1951 by:

/s/ Glenn L. Stewart
U. S. Geological Survey

/s/ Hugh L. Nicholson
U. S. Bureau of Mines