DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2923

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This document has been recorded as

EXPLORATION ASSISTANCE

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

One copy to USBM. and to USGS. Copy ratained in Region IV.

Routing Slip

To:	Code 600, Room 4637	Date	3/10/53
To:	Robertson	Date	3/16/53
To:	Oper Com	Date	4-15-53
To:	Oper Com	Date	9-23-53
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CONTROLLED DOCUMENT

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

224 New Customhouse
Denver 2, Colorado

September 30, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2923 (Kyanite), Bartlett, Leet and Tassi. Kyanite Nos. 1, 2, & 3, and Palmer Lode, Albany County, Wyoming.

The letter dated September 23, 1954, to Edmund Leet and signed by the Administrator, DMEA, has been forwarded to Mr. Leet as requested in your letter dated September 23, 1954.

W H King

W. H. King

DMEA-2923
Kyanite
Region IV

BARTLETT, LEET, AND TASSI, WHEATLAND, WYOMING. Kyanite Nos. 1, 2, and 3, and Palmer Lode, Albany County, Wyoming.

Letter to the Field with reference to its memorandum of September 9, 1953, to the Administrator regarding metallurgical testing, field examination report, and placing the application in the inactive file. 271. 9/23/53

No. 203 DMEA-2923
Kyanite
4-15-53 Region IV

BARTLETT, LEET, AND TASSI, WHEATLAND, WYOMING. Kyanite Nos. 1, 2 and 3 and the Palmer Lode, Albany County, Wyoming.

Letter to the Field requesting a review of the application, an examination if necessary, and a report. Copies of memoranda from the Bureau of Mines and the Geological Survey were also forwarded to the Field. Letter to the applicant.

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet and Tassi
Kyanite Nos. 1, 2, & 3, and
Palmer Lode
Albany County, Wyoming

Dear Mr. King:

Transmitted herewith is a letter to Mr. Edmund Leet. If you are in agreement kindly forward the letter to Mr. Leet. However, please return the letter to this office for revision if you do not agree that the letter in this form should be sent.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

T. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures

LGHouk:gad 9/14/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5227
Mr. Gunsallus 3522
Mr. Houk

SEP 23 1954

Mr. Edmund Lest

Wheatland, Wyoming

Re: Docket No. DMSA-2923 - Kyanite
Bartlett, Lest, and Tassi
Kyanite No. 1, 2, & 3, and
Palmer Lode
Albany County, Wyoming

Dear Mr. Lest:

Reference is made to the letter of July 30, 1954, from the Field Team, Region IV, requesting evidence that the kyanite from your property will meet Government stockpile specifications. To date we have not had an answer to our letter.

We assume that you no longer desire to proceed with the application since you have failed to supply the requested information, therefore, the application is considered closed.

Sincerely yours,

C. D. Mittendorf

Administrator

LGHouk:gad 9/14/54
Rewritten 9/17/54
Copy to: Admr. R. File
Docket
Field Team, Region IV
Operating Committee
Mr. Gunsallus, 3522
Mr. Kiilsgaard, 5227
Mr. Houk

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

224 New Customhouse
Denver 2, Colorado

September 1, 1954

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. 2923, Bartlett, Leet & Tassi, Kyanite Nos. 1, 2 & 3 and Palmer lode Mining claims, Albany County, Wyoming

On July 30, 1954, the applicant was notified that kyanite did not meet stockpile specifications. They were informed that they would be given 30 days to indicate that the kyanite was of strategic quality or the docket would be closed.

To date, we have received no reply from the applicant, and are therefore, closing the docket.

W H King

W. H. King

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

224 New Customhouse
Denver 2, Colorado

September 1, 1954

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. 2923, Bartlett, Leet & Tassi, Kyanite Nos. 1, 2 & 3 and Palmer lode Mining claims, Albany County, Wyoming

On July 30, 1954, the applicant was notified that kyanite did not meet stockpile specifications. They were informed that they would be given 30 days to indicate that the kyanite was of strategic quality or the docket would be closed.

To date, we have received no reply from the applicant, and are therefore, closing the docket.

W. H. King

es

cc: Docket
Chron.
Administrator DMEA

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

224 New Customhouse
Denver 2, Colorado

July 30, 1954

Mr. Edmund Leet
Wheatland, Wyoming

Re: Docket No. 2923

Dear Mr. Leet:

Reference is made to your application for exploration assistance on the Kyanite Nos. 1, 2, and 3, and Palmer Lode, Albany County, Wyoming, Docket No. 2923.

Samples of kyanite obtained from the area under consideration do not meet stockpile specifications.

In order to qualify under the Defense Minerals Exploration program, kyanite must meet the Government stockpile specifications.

If you can present additional information within 30 days which would indicate your kyanite is of strategic quality, we would be glad to process your application. Otherwise, your docket will be closed.

Very truly yours,

W. H. King
W. H. King
DMEA Field Team, Region IV

JFS:es

cc: Docket
Chron.
Traver
Koschmann
Chairman, Oper. Comm. (2)

for E. N. Hauschmann
A. H. Koschmann
DMEA Field Team, Region IV

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

224 New Customhouse
Denver 2, Colorado

September 30, 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2923-Kyanite, Bartlett, Leet, and Tassi, Albany County, Wyoming

Reference is made to your letter dated September 23, 1953, requesting the date on which a field examination of the above property will be made.

We have not scheduled an examination because it appears as if ground included in these claims overlaps the ground owned by Earnest Vanderhoff who has DMEA application 2549.

Samples of kyanite have been collected under Docket No. DMEA 2549, and have been sent to the Metallurgical Division in Salt Lake City for testing.

In our memorandum dated September 18, 1953, to the Administrator, DMEA, we asked advice as to how the cost of the tests to be made at Norris, Tennessee, would be charged. We have not received a reply to this memorandum.

In a letter dated September 9, 1953, the Chairman of the Operating Committee stated that the cost of the metallurgical work required on Docket No. DMEA 2549 could be absorbed by our allotment for September or October. We have exceeded our allotment for September, and have postponed the metallurgical testing pending advice as to our October allotment.

If the samples obtained from Earnest Vanderhoff's property do not prove to be strategic, it will not be necessary to make a field examination of Docket No. 2923. We, therefore, believe it advisable to hold this docket in abeyance pending results of the metallurgical tests on ore obtained from the Vanderhoff property.

W. H. King
W. H. King

SEP 23 1953 600

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet, and Tassi
Kyanite Nos 1,2, & 3 and
Palmer Lode
Albany County, Wyoming

Dear Mr. King:

Reference is made to your memorandum of September 9, 1953, to Mr. C. O. Mittendorf, suggesting placing the subject docket in the inactive file because no DMEA funds were available for metallurgical testing.

The Operators should not be notified that the application has been placed in the inactive file because funds are not available for metallurgical testing. A thirty-day letter may be sent the Operators closing the application if they do not provide the necessary documentation to prove their interest in the land.

Please indicate the date the field examination may be expected. The Field Team Report should include a statement on the results of samples procured by the Field Team and given a preliminary test either by laboratory testing in heavy media or microscopic grain count. If the Field Team examination and laboratory tests indicate further testing is desirable, please estimate the cost of such work in the Field Team Report.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

LGHouk:gad 9/22/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Gunsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

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

224 New Customhouse
Denver 2, Colorado

September 9, 1953

Memorandum

To: C. O. Mittendorf,
Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2923 (Kyanite), Bartlett and Leet, Albany County, Wyoming.

Docket No. DMEA 2923 was held in abeyance pending completion of metallurgical tests on Docket No. DMEA 2549.

Docket No. 2549 has been placed in our inactive file because DMEA funds have not been made available for metallurgical testing.

We are placing Docket No. DMEA 2923 in our inactive file. Please advise us if we should notify the Operator that his application has been placed in our inactive file because funds are not available for metallurgical testing.

W. H. King

W. H. King

Houk
Art 2971

Department of the Interior
Defense Minerals Exploration
Administration

14X5983.970 Working Fund,
Interior, Defense Minerals Exploration
Administration

June 3, 1953

Day Letter

Mr. Albert B. Bartlett

Wheatland, Wyoming

Recurtel May 15 denying your application, Docket number DMEA-2923, this is to advise you that restricted program directive dated April 15 modified on June 1 giving DMEA authority to continue processing your application which was pending prior to date reftel. Kindly advise this office and Executive Officer at Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado whether or not you desire subject application to be reactivated.

C. O. Mittendorf

C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration

LGHouk:gad 6/3/53

Confirmation Copy.

Copy to: Admr. R. File
Docket File
Field Team, Region IV
Mr. Gunsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

Houk
Ext 2971

Department of the Interior
Defense Minerals Exploration
Administration

14X0943.970 Working Fund,
Interior, Defense Minerals Exploration
Administration

Night Letter

April 15, 1953

Mr. Albert H. Bartlett

Wheatland, Wyoming

RE YOUR EXPLORATION APPLICATION DOCKET NUMBER DMEA 2923, KYANITE. THIS IS TO ADVISE YOU THAT EFFECTIVE APRIL 15, 1953 EXPLORATION FUNDS RESTRICTED TO ASSISTANCE ONLY FOR SPECIFIED MINERALS STILL IN SHORT SUPPLY. KYANITE NO LONGER INCLUDED. CONSEQUENTLY WE DO NOT HAVE AUTHORITY OR FUNDS TO EXECUTE CONTRACT FOR EXPLORATION PROJECT ON YOUR PROPERTY AND YOUR APPLICATION THEREFORE IS DENIED. THIS IS WITHOUT PREJUDICE TO THE MERITS OF YOUR PROPOSED PROJECT. WE REGRET THE NECESSITY OF THIS ACTION AND EXPRESS APPRECIATION FOR YOUR INTEREST IN THE EXPLORATION PROGRAM AND COOPERATION DURING PERIOD YOUR APPLICATION UNDER CONSIDERATION.

C. G. MITTENDORF, ADMINISTRATOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

LGHouk:gad 5/15/53

Copy to: Admr. R. File
Field Team, Region IV
Docket File
Mr. Gunsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

Confirmation Copy

6.0

APR 1 6 1953

Mr. [illegible] King
Executive Officer, [illegible]
Field Team, Region [illegible]
Bureau of Mines
424 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. [illegible]-2923 - Kyanite
Bartlett, Lyet, and Tassi
Kyanite No. 1,2, & 3 and
Palmer Lode
Albany County, Wyoming

Dear Mr. King:

A field team review is requested for the above-referred exploration assistance application, and if deemed advisable, a field examination of the mine may be made.

Enclosed herewith for your information are memoranda on the subject application by the Bureau of Mines and the Geological Survey.

Sincerely yours,

George A. Stringer

Chairman, Operating Committee

Approved:

J. H. Hodges

Member, Bureau of Mines

A. A. Nikkel, Jr.

Member, Geological Survey

Enclosures 4

JTRobertson:gad 4/10/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Gumsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

600

APR 16 1953

Mr. Albert S. Bartlett

Wheatland, Wyoming

Re: Docket No. [illegible]-923 - Kyanite
Bartlett, Leet and Tassi
Kyanite No. 1,2, & 3 and
Palmer Lode
Albany County, Wyoming

Dear Mr. Bartlett:

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. [illegible] King, Executive Officer, DMEA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado, for a field examination should he deem it necessary.

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

Sincerely yours,

C. O. Mittendorf

Administrator

JTRobertson:gad 4/13/53

Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region IV
Mr. Larrabee, G-232 GSA Bldg.
Mr. Gunsallus, 3522
Mr. Houk

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 8 1953

April 8, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: B. L. Gunsallus, Commodity-Industry Analyst
Ceramic and Fertilizer Materials Branch

Subject: DMEA-2923 (kyanite and sillimanite), Bartlett, Leet, and Tassi, Wheatland, Wyoming, (a partnership)

Representative samples should be submitted to obtain preliminary quality evaluation of the kyanite bearing minerals on the property. If the samples are judged by visual inspection to be of possible strategic quality, a field team examination is recommended. If the findings of the field team are favorable, then representative samples (500 to 1,000 pounds) should be cut from the several outcrops, for beneficiation followed by ceramic testing of the concentrates.

Signed

B. L. Gunsallus

IN REPLY REFER TO:
G-MD-CLM

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

March 17, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 19 1953

Memorandum

REVIEW OF APPLICATION DMEA-2923 (kyanite and sillimanite)

To: L. G. Houk, Defense Minerals Exploration Administration.
From: D. M. Larrabee, U.S. Geological Survey
Applicant: Bartlett, Leet, and Tassi, Wheatland, Wyoming (a partnership)
Name of property: Kyanite No. 1, 2, & 3 and Palmer Lode.
Location of property: Albany County, Wyoming.
Estimated cost of project: $50,850.00
Summary of applicant's proposal:

1) Core drilling with some trenching to indicate surface outcrops of veins.
2) Access road to No. 2.
3) Laboratory work to determine the mineral content of the veins and the recovery possibilities.

Sources of information on applicant's property: None

Comments:

According to G. H. Espenshade (March 11, 1953), "It is quite clear from the applicants' detailed description of these kyanite deposits that the raw ore cannot meet the specifications for strategic kyanite because of its large content of hornblende, biotite, quartz, and other minerals. In order to determine whether kyanite concentrates made from this ore would have the quality of strategic kyanite, milling tests would have to be made on sufficiently large samples. These samples should be taken and tested at the Norris laboratory of the Bureau of Mines before considering the applicants' proposal. If the concentrates are found to be of suitable quality, then the deposits should be examined carefully and the applicants' proposal reviewed by the field team."

RECOMMENDATION:

Either deny application or tell applicant to submit sample.

DMLarrabee:lmc
cc: Director's Reading, 4212
Branch Reading, 4212
DMEA(3)
Mr. Norton-G-228

D. M. Larrabee

MF-103
Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1953

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

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. dmea 2923
Metal or Mineral
Date Received 3-10-53
Estimated Cost
Participation (Government %)

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: Albert D. Bartlett, Wheatland, Wyo.
Edmund Leet, " "
Gordon J. Tassi, Denver, Colo. 6, 1740 Williams St.

(*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. Partnership as above

(*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. See above

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 Four Lode Mining Claims under U. S. and Wyoming laws:- Kyanite No. 1, 2, & 3, in Section 35, Palmer Lode in Section 24, T 24 N R 71 W, in Albany County, Wyo.
See below*

(*b*) State any mine name by which the property is known.

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

(*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 None

(*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.

16—66551-1

Kyanite No. 1 Serial No. 332505, recorded in Book 37, page 301. No. 2 Serial 332506, Book 37, pg 302, No.3, Ser. 332507, Book 37 pg 303, and Palmer Ser. 332508, Book 37, pg 304.

5. *The exploration project.*—(a) State the mineral or minerals for which you [illegible] to explore Kyanite and Sillimanite

(*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 six 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)? Yes

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

[X] 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 Feb. 21, 1953

Bartlett, Lect, and Tassi
(Applicant)

By Albert B. Bartlett
Edmund Lect
Gordon J. Tassi

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

4. Physical Description

(a) Mining operations consist of five pits five to ten feet deep, two on Kyanite No. 2, one each on the others, exposing the veins in part, dug by former owners about ten years ago. Readily accessible for examination. Exploration by present owners consists of examination of the geology of veins and country rock, with estimates of outcrops.

(b) Past production none.

9 (c) The veins appear to be segregations which occur in granite gneiss, in the vicinity of diorite dykes, and which follow the stratification of the gneiss, and dipping at 45° to 90° from horizontal. The occurances on each of the four claims are as follows:-

Kyanite No. 1. The vein, though not fully exposes by an open pit, appears to be about 15 feet wide, and is composed principally of a good grade of vermiculite containing a significant proportion of kyanite crystals, with some quartz, feldspar, and other minerals. The length of this vein is unknown, the strike is southwestly toward the outcrops on No. 2.

Kyanite No. 2. The exposures of ore are approximately 900 feet southwest from that on No. 1, in the direction of its strike. They consist of six outcrops which appear to be in place, indicating possibly four veins 10 to 15 feet in width, and numerous boulders of float. The relations of these occurences are shown in the attached sketch on which the first proposed core drill holes are shown. These outcrops occur on a steep south-sloping side hill covered with granite boulders which make it impossible to follow the strike of the veins. Trenches and core holds will be needed to explore these veins.

A brief description of the occurences follows:- A. This is a boulder about 20x8x15 feet very hard and tough, and consisting of apparently 50% kyanite and 50% hornblende, so much like the vein at E, that it may have come down hill from that point. B is an outcrop of kyanite and biotite about 20 feet wide and tapering to 3 feet between granite walls where it is covered by loose material. C is an outcrop, apparently about equal parts kyanite and biotite, which appears to be in place, and to be part of a vein with an east-west strike, and a north dip of 45°. D is a triangulat piece 20x30 feet, kyanite and mica, it is not clear whether it is place, but it may be part of the vein at E, as there are boulders between. At E there is a pit about 15 feet square, showing mainly solid hornblende and kyanite, about 50-50, the walls are not shown. At points up to 200 feet northeast are outcrops showing considerable kyanite, which may connect with either E or F, there is too much overburden to permit a definite statement. F is an opening about 10 feet long which indicates a vein 12 to 15 feet wide, with a northeast strike and a nearly vertical dip. It contains kyanite, vermiculite, and mica, and is soft as compared to other outcrops. G is an outcrop of a vein which shows for about 75 feet with a general width of 6 feet, of a composition apparently half and half kyanite and biotite. A hole at the north end shows some accompanying vermiculite, and north of it the vein blends into the granite. The south end is covered by debris. H is an open cut in vermiculite. I, J, and K are either boulders or outcrops showing kyanite and mica for intervals for about 100 feet.

Kyanite No. 3. This is a ledge occuring on a high steep ridge, and entirely visible over its length and breadth. On top of the ridge it is approximately 100 feet wide, its strike is northeast in the direction of Kyanite No. 2, and its length 700 feet. The width at the ends is 40

feet, and a vertical height of 100 feet is indicated. The dip on the southeast side is about 90° and on the opposite side 60° so it appears to be a large wedge shaped lens of the dimensions given. The country rock is granite gneiss, and a small diorite dyke cuts the ledge near the top. From the laboratory tests it appears that this deposit is approximately 10% sillimanite, 20% biotite, with the remainder quartz. It is remarkably uniform throughout its length and width, and shows in solid masses up to 20 feet in width.

Palmer Lode. This is about two miles to the north. It consists of a vein 6 to 10 feet wide and about 400 feet long, half vermiculite, possibly 25% kyanite, some quartz, and some small rubies or corundum. Toward the east it blends with the granite, and toward the west it is covered, so may have a little more length in that direction.

In the way of technical information, the Natural Resources Research Institute of Wyoming University, made some sink-float tests on the ore from No. 2, and from No. 3, the latter indicated above. The tests on composite samples from No. 2 give the impression that the ore runs 35% to 50% kyanite, 35% mica, approximately, with the remainder hornblende, although this mineral occurs in place only at E. Additional sampling and laboratory work is needed.

(d) The property can be reached by a road from Wheatland which is five miles oiled highway, fifteen miles good dirt road, and four miles bad dirt road, to Kyanite No. 1. Two more miles of presently bad dirt roads lead to a point between No. 2 and No. 3, and to conduct drilling operations on No. 2 would require about 700 feet of access road construction. In case of mining and milling operations a road on a water grade down the Laramie River valley could be made by bridging the Laramie in three or four places. This would be an all-weather road, and the distance about 20 miles to Wheatland, or 16 miles to a a railroad loading point on a beet loading spur. Residences could be built along the small creek which crosses the property.

(e) Water is available from the Laramie River. The REA would run a power line to the project. Manpower, materials, supplies, and equipment are available or can be made available.

No. 5, the exploration project.

9 (b) The exploration work is proposed to be done in two stages, the second to depend upon the results obtained from the first. The work would consist mainly of core drilling, with some trenching to indicate surface outcrops of veins, an access road to No. 2, and laboratory work to determine the mineral content of the veins and the recovery possibilities. A market study should be made to determine the size of the market and prices for the grades of kyanite and mica producible. The mica is not a true biotite, as it is not magnetic, it is not a vermiculite except as stated, but upon heating assumes an attractive golden color which should make it salable.

A sketch is presented showing the occurences at No. 2, and the proposed first stage core holes, totalling 750 feet. Core holes at No. 3 and Palmer would simply be angle holes aimed to cut the ore bodies at about 100 feet in depth. The applicants are qualified by training and experience to supervise the work of directing drilling and caring for the cores, and would either do this work or employ competent engineers for that purpose. The core drilling and access road would be contracted. The trenches would be done by force account, the laboratory work would be done by the Natural Resources Research Institute of Wyoming University.

No. 6. Estimate of Costs: -

<u>First Stage</u>

Kyanite No. 1, Three trenches across vein 3 feet wide, 5 to 10 feet deep	$300.00
Kyanite No. 2. Access road, 700 feet long 2800 cu. yds. @ $2.00	$5600.00

Two open cuts, 10 foot face	$300.00	
Seven drill holes, 750 feet @ $10.00	7500.00	
Laboratory work	500.00	
	$13,900.00	$13,900.00
Kyanite No. 3 Laboratory work	300.00	300.00
Palmer. Four trenches 10 feet long	400.00	
Laboratory work	200.00	
Four core holes, 600 feet	6000.00	
Total on Palmer	6600.00	$ 6,600.00
Supervision, 3 Months @ $500.00		1,500.00
Contingencies, travel, transportation, care of cores, etc.		3,000.00
Total First Stage		$25,600.00

Second Stage

Kyanite No. 1 Trenches	$ 200.00	$ 200.00
Kyanite No. 2. Seven Core Holes 750'	7500.00	
Laboratory work	1000.00	
	$8500.00	$8500.00
Kyanite No. 3 Five core holes 625 Ft	$6250.00	
Laboratory work	300.00	
	$6550.00	$6550.00
Palmer, None.		
Supervision, Three months @ $500		$1500.00
Contingencies, transportation, travel, care of cores, etc.		$3000.00
Additional drilling, as indicated 500 feet		$5000.00
Additional trenches, as indicated		500.00
Total Second Stage		$25,250.00

Total both stages $50,850.00

(b) Labor and supervision will be obtained at local prevailing rates. The Research Institute will be employed as consultant and for geological and laboratory at its usual actual cost basis.

(c), (d), (e), (f), and (g). It is intended that hand tools will be bought for the trenching work. Cores will be transported to Wheatland and stored in rented store house, so no new buildings, or installations are intended.

9(h) Contingencies are covered in above estimate.

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

224 New Customhouse
Denver 2, Colorado

September 30, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2923 (Kyanite), Bartlett, Leet and Tassi. Kyanite Nos. 1, 2, & 3, and Palmer Lode, Albany County, Wyoming.

The letter dated September 23, 1954, to Edmund Leet and signed by the Administrator, DMEA, has been forwarded to Mr. Leet as requested in your letter dated September 23, 1954.

W. H. King

Docket Copy
Surname:
Houk
Leffridge
Kiilsgaard
Hedges
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

SEP 23 1954

Mr. Edmund Leet

Wheatland, Wyoming

Re: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet, and Tassi
Kyanite No. 1, 2, & 3, and
Palmer Lode
Albany County, Wyoming

Dear Mr. Leet:

Reference is made to the letter of July 30, 1954, from the Field Team, Region IV, requesting evidence that the kyanite from your property will meet Government stockpile specifications. To date we have not had an answer to our letter.

We assume that you no longer desire to proceed with the application since you have failed to supply the requested information, therefore, the application is considered closed.

Sincerely yours,

C. O. Mittendorf

Administrator

LGHouk:gad 9/14/54
Rewritten 9/17/54
Copy to: Admr. R. File
Docket
Field Team, Region IV
Operating Committee
Mr. Gunsallus, 3522
Mr. Kiilsgaard, 5227
Mr. Houk

R.C.S.

Docket Copy
Surname:
Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Mr. Edmund Leet

Wheatland, Wyoming

Re: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet, and Tassi
Kyanite No. 1, 2, & 3, and
Palmer Lode
Albany County, Wyoming

Dear Mr. Leet:

Reference is made to the letter of July 30, 1954, from the Field Team, Region IV, requesting evidence that the kyanite from your property will meet Government stockpile specifications. To date we have not had an answer to our letter, and we assume that you no longer desire to proceed with the application.

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

We regret to advise that your application for exploration assistance has been removed from the active file and the case considered closed.

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

Sincerely yours,

Administrator

LGHouk:gad 9/14/54
Copy to: Admr. R. File
Docket
Field Team, Region IV
Operating Committee
Mr. Gunsallus, 3522
Mr. Kiilsgaard, 5227
Mr. Houk

Docket Copy
Surname: Houk Selfridge Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

SEP 23 1954

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet and Tassi
Kyanite Nos. 1, 2, & 3, and
Palmer Lode
Albany County, Wyoming

Dear Mr. King:

Transmitted herewith is a letter to Mr. Edmund Leet. If you are in agreement kindly forward the letter to Mr. Leet. However, please return the letter to this office for revision if you do not agree that the letter in this form should be sent.

Sincerely yours,

George C. Selfridge
By ESJ
Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

Enclosures

LGHouk:gad 9/14/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5227
Mr. Gunsallus 3522
Mr. Houk

R.C.S.

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

224 New Customhouse
Denver 2, Colorado

September 1, 1954

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. 2923, Bartlett, Leet & Tassi, Kyanite Nos. 1, 2 & 3 and Palmer lode Mining claims, Albany County, Wyoming

On July 30, 1954, the applicant was notified that kyanite did not meet stockpile specifications. They were informed that they would be given 30 days to indicate that the kyanite was of strategic quality or the docket would be closed.

To date, we have received no reply from the applicant, and are therefore, closing the docket.

W. H. King

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

224 New Customhouse
Denver 2, Colorado

July 30, 1954

Mr. Edmund Leet
Wheatland, Wyoming

Re: Docket No. 2923

Dear Mr. Leet:

Reference is made to your application for exploration assistance on the Kyanite Nos. 1, 2, and 3, and Palmer Lode, Albany County, Wyoming, Docket No. 2923.

Samples of kyanite obtained from the area under consideration do not meet stockpile specifications.

In order to qualify under the Defense Minerals Exploration program, kyanite must meet the Government stockpile specifications.

If you can present additional information within 30 days which would indicate your kyanite is of strategic quality, we would be glad to process your application. Otherwise, your docket will be closed.

Very truly yours,

W. H. King
W. H. King
DMEA Field Team, Region IV

JFS:es

cc: Docket
Chron.
Traver
Koschmann
Chairman, Oper. Comm. (2)

per E. N. Koschmann
A. H. Koschmann
DMEA Field Team, Region IV

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

224 New Customhouse
Denver 2, Colorado

September 30, 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2923-Kyanite, Bartlett, Leet, and Tassi, Albany County, Wyoming

Reference is made to your letter dated September 23, 1953, requesting the date on which a field examination of the above property will be made.

We have not scheduled an examination because it appears as if ground included in these claims overlaps the ground owned by Earnest Vanderhoff who has DMEA application 2549.

Samples of kyanite have been collected under Docket No. DMEA 2549, and have been sent to the Metallurgical Division in Salt Lake City for testing.

In our memorandum dated September 18, 1953, to the Administrator, DMEA, we asked advice as to how the cost of the tests to be made at Norris, Tennessee, would be charged. We have not received a reply to this memorandum.

In a letter dated September 9, 1953, the Chairman of the Operating Committee stated that the cost of the metallurgical work required on Docket No. DMEA 2549 could be absorbed by our allotment for September or October. We have exceeded our allotment for September, and have postponed the metallurgical testing pending advice as to our October allotment.

If the samples obtained from Earnest Vanderhoff's property do not prove to be strategic, it will not be necessary to make a field examination of Docket No. 2923. We, therefore, believe it advisable to hold this docket in abeyance pending results of the metallurgical tests on ore obtained from the Vanderhoff property.

W. H. King

W. H. King

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

SEP 23 1953

Houk
Selfridge
[illegible]

Mr. [illegible] H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet, and Tassi
Kyanite Nos. 1,2, & 3 and
Palmer Lode
Albany County, Wyoming

Dear Mr. King:

Reference is made to your memorandum of September 9, 1953, to Mr. C. [illegible] Mittendorf, suggesting placing the subject docket in the inactive file because no DMEA funds were available for metallurgical testing.

The Operators should not be notified that the application has been placed in the inactive file because funds are not available for metallurgical testing. A thirty-day letter may be sent the Operators closing the application if they do not provide the necessary documentation to prove their interest in the land.

Please indicate the date the field examination may be expected. The Field Team Report should include a statement on the results of samples procured by the Field Team and given a preliminary test either by laboratory testing in heavy media or microscopic grain count. If the Field Team examination and laboratory tests indicate further testing is desirable, please estimate the cost of such work in the Field Team Report.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/B)

Approved:

J. H. Hedges (2/B)
Member, Bureau of Mines

A. R. Kinkel, Jr. (2/B)
Member, Geological Survey

LGHouk:gad 9/22/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Gunsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.S.
9-23-53

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

224 New Customhouse
Denver 2, Colorado

September 9, 1953

Memorandum

To: C. O. Mittendorf,
Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2923 (Kyanite), Bartlett and Leet, Albany County, Wyoming.

Docket No. DMEA 2923 was held in abeyance pending completion of metallurgical tests on Docket No. DMEA 2549.

Docket No. 2549 has been placed in our inactive file because DMEA funds have not been made available for metallurgical testing.

We are placing Docket No. DMEA 2923 in our inactive file. Please advise us if we should notify the Operator that his application has been placed in our inactive file because funds are not available for metallurgical testing.

W. H. King

W. H. King

Houk
Ext 2971

FILE COPY
SURNAME:

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

Department of the Interior
Defense Minerals Exploration
Administration

Houk

14X3923.970 Working Fund,
Interior, Defense Minerals Exploration
Administration

June 3, 1953

Day Letter

Mr. Albert B. Bartlett

Wheatland, Wyoming

Recurtel May 15 denying your application, Docket number DMEA-2923, this is to advise you that restricted program directive dated April 15 modified on June 1 giving DMEA authority to continue processing your application which was pending prior to date reftel. Kindly advise this office and Executive Officer at Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado whether or not you desire subject application to be reactivated.

C. O. Mittendorf

C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration

LGHouk:gad 6/3/53

Confirmation Copy.

Copy to: Admr. R. File
Docket File
Field Team, Region IV
Mr. Gunsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

Houk
Ext 2971

FILE COPY
SURNAME:

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

Department of the Interior
Defense Minerals Exploration
Administration

14X3923.970 Working Fund,
Interior, Defense Minerals Exploration
Administration

Houk

Night Letter

MAY
~~April~~ 15, 1953

Mr. Albert E. Bartlett

Wheatland, Wyoming

RE YOUR EXPLORATION APPLICATION DOCKET NUMBER DMEA 2923, KYANITE. THIS IS TO ADVISE YOU THAT EFFECTIVE APRIL 15, 1953 EXPLORATION FUNDS RESTRICTED TO ASSISTANCE ONLY FOR SPECIFIED MINERALS STILL IN SHORT SUPPLY. KYANITE NO LONGER INCLUDED. CONSEQUENTLY WE DO NOT HAVE AUTHORITY OR FUNDS TO EXECUTE CONTRACT FOR EXPLORATION PROJECT ON YOUR PROPERTY AND YOUR APPLICATION THEREFORE IS DENIED. THIS IS WITHOUT PREJUDICE TO THE MERITS OF YOUR PROPOSED PROJECT. WE REGRET THE NECESSITY OF THIS ACTION AND EXPRESS APPRECIATION FOR YOUR INTEREST IN THE EXPLORATION PROGRAM AND COOPERATION DURING PERIOD YOUR APPLICATION UNDER CONSIDERATION.

[illegible] 854

C. O. MITTENDORF, ADMINISTRATOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

LGHouk:gad 5/15/53

J.H.
5-15-53

Copy to: Admr. R. File
Field Team, Region IV
Docket File
Mr. Gunsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

Confirmation Copy

FILE COPY
SURNAME:

Robertson
Houk
Selfridge
Gf Jones

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

600

APR 1 6 1953

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet, and Tassi
Kyanite No. 1,2, & 3 and
Palmer Lode
Albany County, Wyoming

Dear Mr. King:

D.C. 4/16/53.

A field team review is requested for the above-referred exploration assistance application, and if deemed advisable, a field examination of the mine may be made.

Enclosed please find for your information, the memoranda on the subject application by the Bureau of Mines and the Geological Survey.

Sincerely yours,

George A. Selfridge

Chairman, Operating Committee (GAS)

Approved:

W. H. Regier (GAS)
Member, Bureau of Mines

W. R. Keefer, Jr. (GAS)
Member, Geological Survey

Enclosures 4

JTRobertson:gad 4/10/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Gumsallus, 3522
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

Robertson
Smith
Selfridge
Fegan

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

600

APR 1 6 1953

Mr. Albert B. Bartlett

Wheatland, Wyoming

Re: Docket No. DMEA-2923 - Kyanite
Bartlett, Leet and Tassi
Kyanite No. 1,2, & 3 and
Palmer Lode
Albany County, Wyoming

Dear Mr. Bartlett:

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. W. H. King, Executive Officer, DMEA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado, for a field examination should he deem it necessary.

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

JTRobertson:gad 4/13/53

Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region IV
Mr. Larrabee, G-232 GSA Bldg.
Mr. Gunsallus, 3522
Mr. Houk

S.C. 4/16/53

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 8 1953

April 8, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: B. L. Gunsallus, Commodity-Industry Analyst
Ceramic and Fertilizer Materials Branch

Subject: DMEA-2923 (kyanite and sillimanite), Bartlett, Leet, and Tassi, Wheatland, Wyoming, (a partnership)

Representative samples should be submitted to obtain preliminary quality evaluation of the kyanite bearing minerals on the property. If the samples are judged by visual inspection to be of possible strategic quality, a field team examination is recommended. If the findings of the field team are favorable, then representative samples (500 to 1,000 pounds) should be cut from the several outcrops, for beneficiation followed by ceramic testing of the concentrates.

Brooke L. Gunsallus
B. L. Gunsallus

IN REPLY REFER TO:

G-MD-CLM

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

March 17, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 19 1953

Memorandum

REVIEW OF APPLICATION DMEA-2923 (kyanite and sillimanite)

To: L. G. Houk, Defense Minerals Exploration Administration.
From: D. M. Larrabee, U.S. Geological Survey
Applicant: Bartlett, Leet, and Tassi, Wheatland, Wyoming (a partnership)
Name of property: Kyanite No. 1, 2, & 3 and Palmer Lode.
Location of property: Albany County, Wyoming.
Estimated cost of project: $50,850.00
Summary of applicant's proposal:

1) Core drilling with some trenching to indicate surface outcrops of veins.
2) Access road to No. 2.
3) Laboratory work to determine the mineral content of the veins and the recovery possibilities.

Sources of information on applicant's property: None

Comments:

According to G. H. Espenshade (March 11, 1953), "It is quite clear from the applicants' detailed description of these kyanite deposits that the raw ore cannot meet the specifications for strategic kyanite because of its large content of hornblende, biotite, quartz, and other minerals. In order to determine whether kyanite concentrates made from this ore would have the quality of strategic kyanite, milling tests would have to be made on sufficiently large samples. These samples should be taken and tested at the Norris laboratory of the Bureau of Mines before considering the applicants' proposal. If the concentrates are found to be of suitable quality, then the deposits should be examined carefully and the applicants' proposal reviewed by the field team."

RECOMMENDATION:

Either deny application or tell applicant to submit sample.

D. M. Larrabee

D. M. Larrabee

March 10, 1953

Mr. Albert B. Bartlett
Wheatland, Wyoming

Subject: DMEA-2923
Re: Exploration Assistance
Kyanite No. 1 - 3 and Palmer Lode

My dear Mr. Bartlett:

The receipt of your application dated February 21, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2923 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-2923 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

March 10, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region IV.

DMEA-2923 **Albert B. Bartlett, Edmund Leet and Gordon J. Tassi**

ROBERT E. ADAMS

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

33980

dmea 2923

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1953

224 New Customhouse
Denver 2, Colorado

March 3, 1953

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Field Team, Region IV

Subject: (Kyanite) Application of A. B. Bartlett, Edmond Leet, and G. J. Tassi, Albany County, Wyoming

Enclosed are three copies of the subject application requesting exploration aid in the amount of $50,850.00.

One copy including a sketch map of the propsoed work is being held in this office.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

dmea 2923

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1953

224 New Customhouse
Denver 2, Colorado

March 3, 1953

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Field Team, Region IV

Subject: (Kyanite) Application of A. B. Bartlett, Edmond Leet, and G. J. Tassi, Albany County, Wyoming

Enclosed are three copies of the subject application requesting exploration aid in the amount of $50,850.00.

One copy including a sketch map of the propsoed work is being held in this office.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1953

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. dmea 2923
Metal or Mineral
Date Received 3-10-53
Estimated Cost
Participation (Government %)

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: Albert D. Bartlett, Wheatland, Wyo.
Edmund Leet, " "
Gordon J. Tassi, Denver 6, Colo. 1740 Williams St.

(*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. Partnership as above

(*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. As above

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 Four Lode Mining Claims under U. S. and Wyoming Laws:- Kynnite No. 1, 2, & 3, in Section 35, Palmer Lode in Section 24, T 24 N R 71 W, in Albany County, Wyo.
See below *

(*b*) State any mine name by which the property is known.

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

(*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 None

(*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.
*Kyanite No. 1, Serial No. 332505, recorded in Book 37, page 301. No. 2, Serial No. 332506, Book 37, pg 302; No. 3, Ser. 332507, Book 37 pg 303, and Palmer, Ser. 332508, Book 37, pg 304.

16—66551-1

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

(*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 six 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)? Yes.

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

[X] 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 Feb. 21, 1953

Bartlett, Leet, and Tassi
(Applicant)

By Albert B. Bartlett
Edmund Leet
Gordon J. Tassi

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

DMEA KYANITE APPLICATION

4. Physical Description

(a) Minin g operations consist of five pits five to ten feet deep, two on Kyanite No. 2, one each on the others, exposing the veins in part, dug by former owners about ten years ago. Readily accessible for examination. Exploration by present owners consists of examination of the geology of veins and country rock, with estimates of outcrops.

(b) Past production none.

9 (c) The veins appear to be segregations which occur in granite gneiss, in the vicinity of diorite dykes, and which follow the stratification of the gneiss, and dipping at 45° to 90° from horizontal. The occurances on each of the four claims are as follows:-

Kyanite No. 1. The vein, though not fully exposed by an open pit, appears to be about 15 feet wide, and is composed principally of a good grade of vermiculite containing a significant proportion of kyanite crystals, with some quartz, feldspar, and other minerals. The length of this vein is unknown, the strike is southwestly toward the outcrops on No. 2.

Kyanite No. 2. The exposures of ore are approximately 900 feet southwest from that on No. 1, in the direction of its strike. They consist of six outcrops which appear to be in place, indicating possibly four veins 10 to 15 feet in width, and numerous boulders of float. The relations of these occurences are shown in the attached sketch on which the first proposed core drill holes are shown. These outcrops occur on a steep south-sloping side hill covered with granite boulders which make it impossible to follow the strike of the veins. Trenches and core holds will be needed to explore these veins.

A brief description of the occurences follows:- A. This is a boulder about 20x8x15 feet very hard and tough, and consisting of apparently 50% kyanite and 50% hornblende, so much like the vein at E, that it may have come down hill from that point. B is an outcrop of kyanite and biotite about 20 feet wide and tapering to 3 feet between granite walls where it is covered by loose material. C is an outcrop, apparently about equal parts kyanite and biotite, which appears to be in place, and to be part of a vein with an east-west strike, and a north dip of 45°. D is a triangulat piece 20x30 feet, kyanite and mica, it is not clear whether it is place, but it may be part of the vein at E, as there are boulders between. At E there is a pit about 15 feet square, showing mainly solid hornblende and kyanite, about 50-50, the walls are not shown. At points up to 200 feet northeast are outcrops showing considerable kyanite, which may connect with either E or F, there is too much overburden to permit a definite statement. F is an opening about 10 feet long which indicates a vein 12 to 15 feet wide, with a northeast strike and a nearly vertical dip. It contains kyanite, vermiculite, and mica, and is soft as compared to other outcrops. G is an outcrop of a vein which shows for about 75 feet with a general width of 6 feet, of a composition apparently half and half kyanite and biotite. A hole at the north end shows some accompanying vermiculite, and north of it the vein blends into the granite. The south end is covered by debris. H is an open cut in vermiculite. I, J, and K are either boulders or outcrops showing kyanite and mica for intervals for about 100 feet.

Kyanite No. 3. This is a ledge occuring on a high steep ridge, and entirely visible over its length and breadth. On top of the ridge it is approximately 100 feet wide, its strike is northeast in the direction of Kyanite No. 2, and its length 700 feet. The width at the ends is 40

feet, and a vertical height of 100 feet is indicated. The dip on the southeast side is about 90° and on the opposite side 60° so it appears to be a large wedge shaped lens of the dimensions given. The country rock is granite gneiss, and a small diorite dyke cuts the ledge near the top. From the laboratory tests it appears that this deposit is approximately 10% sillimanite, 20% biotite, with the remainder quartz. It is remarkably uniform throughout its length and width, and shows in solid masses up to 20 feet in width.

Palmer Lode. This is about two miles to the north. It consists of a vein 6 to 10 feet wide and about 400 feet long, half vermiculite, possibly 25% kyanite, some quartz, and some small rubies or corundum. Toward the east it blends with the granite, and toward the west it is covered, so may have a little more length in that direction.

In the way of technical information, the Natural Resources Research Institute of Wyoming University, made some sink-float tests on the ore from No. 2, and from No. 3, the latter indicated above. The tests on composite samples from No. 2 give the impression that the ore runs 35% to 50% kyanite, 35% mica, approximately, with the remainder hornblende, although this mineral occurs in place only at E. Additional sampling and laboratory work is needed.

(d) The property can be reached by a road from Wheatland which is five miles oiled highway, fifteen miles good dirt road, and four miles bad dirt road, to Kyanite No. 1. Two more miles of presently bad dirt roads lead to a point between No. 2 and No. 3, and to conduct drilling operations on No. 2 would require about 700 feet of access road construction. In case of mining and milling operations a road on a water grade down the Laramie River valley could be made by bridging the Laramie in three or four places. This would be an all-weather road, and the distance about 20 miles to Wheatland, or 16 miles to a a railroad loading point on a beet loading spur. Residences could be built along the small creek which crosses the property.

(e) Water is available from the Laramie River. The REA would run a power line to the project. Manpower, materials, supplies, and equipment are available or can be made available.

No. 5, the exploration project.

9 (b) The exploration work is proposed to be done in two stages, the second to depend upon the results obtained from the first. The work would consist mainly of core drilling, with some trenching to indicate surface outcrops of veins, an access road to No. 2, and laboratory work to determine the mineral content of the veins and the recovery possibilities. A market study should be made to determine the size of the market and prices for the grades of kyanite and mica producible. The mica is not a true biotite, as it is not magnetic, it is not a vermiculite except as stated, but upon heating assumes an attractive golden color which should make it salable.

A sketch is presented showing the occurences at No. 2, and the proposed first stage core holes, totalling 750 feet. Core holes at No. 3 and Palmer would simply be angle holes aimed to cut the ore bodies at about 100 feet in depth. The applicants are qualified by training and experience to supervise the work of directing drilling and caring for the cores, and would either do this work or employ competent engineers for that purpose. The core drilling and access road would be contracted. The trenches would be done by force account, the laboratory work would be done by the Natural Resources Research Institute of Wyoming University.

No. 6. Estimate of Costs:-

<u>First Stage</u>

Kyanite No. 1,	Three trenches across vein 3 feet wide, 5 to 10 feet deep	$300.00
Kyanite No. 2.	Access road, 700 feet long 2800 cu. yds. @ $2.00	$5600.00

Two open cuts, 10 foot face	$300.00	
Seven drill holes, 750 feet @ $10.00	7500.00	
Laboratory work	500.00	
Total on No. 2	$13,900.00	$13,900.00
Kyanite No. 3 Laboratory work	300.00	300.00
Palmer. Four trenches 10 feet long	400.00	
Laboratory work	200.00	
Four core holes, 600 feet	6000.00	
Total on Palmer	6600.00	$6,600.00
Supervision, 3 Months @ $500.00		1,500.00
Contingencies, travel, transportation, care of cores, etc.		3,000.00
Total First Stage		$25,600.00

Second Stage

Kyanite No. 1 Trenches	$200.00	$200.00
Kyanite No. 2. Seven Core Holes 750'	7500.00	
Laboratory work	1000.00	
	$8500.00	$8500.00
Kyanite No. 3 Five core holes 625 Ft	$6250.00	
Laboratory work	300.00	
	$6550.00	$6550.00
Palmer, None.		
Supervision, Three months @ $500		$1500.00
Contingencies, transportation, travel, care of cores, etc.		$3000.00
Additional drilling, as indicated 500 feet		$5000.00
Additional trenches, as indicated		500.00
Total Second Stage		$25,250.00

Total both stages $50,850.00

(b) Labor and supervision will be obtained at local prevailing rates. The Research Institute will be employed as consultant and for geological and laboratory at its usual actual cost basis.

(c), (d), (e), (f), and (g). It is intended that hand tools will be bought for the trenching work. Cores will be transported to Wheatland and stored in rented store house, so no new buildings, or installations are intended.

9(h) Contingencies are covered in above estimate.