DMA Form 1

Denied

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3105

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

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.

Copies to USGS, USBM ~~AND TO~~ REGION V.

Routing Slip

To:	Code 600, Rm. 4637	Date	7/2/53
To:	Robertson	Date	7/6/53
To:	Oper Com	Date	1-17-53
To:	Code 600	Date	7-20-53
To:	Oper Com	Date	9-9-53
To:		Date	
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CONTROLLED DOCUMENT

FILE COPY
SURNAME:

Robertson
Finch
Hedges
Wendel
Selfridge
Fleischman

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

600

SEP 9 - 1953

Mr. Arthur Mateske
1237 Gordon Street
Custer, South Dakota

Re: Docket No. DMA-3105 - Mica
The Dale Mine
Custer County, South Dakota

Dear Mr. Mateske:

Your application for aid for an exploration project and other data available to us in Washington concerning your application have been reviewed.

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

Careful study of all our information, although noting a small amount of mica on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

JTRobertson:gad 9/4/53

Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region V
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.B.
9-9-53

FILE COPY
SURNAME:

Roberts
Lawrence G. Houk

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

600

September 4, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-3105 - Mica
Arthur Mateske (owner)
The Dale Mine, Custer, South Dakota

Re: Denial of application and closing of docket.

Property: The Dale Mine comprises an unpatented mining location within SE 1/4 Sec. 15, T. 4S., R. 4 E., BHBM. Claim recorded in Custer County in Bk. No. 17, Page 482 of locations. The mine lies 7 miles by good road South and slightly West of Custer, South Dakota.
Applicant: Arthur Mateske
1037 Gordon Street
Custer, South Dakota.
Amount requested: $4,003.74
Project requested: 50 ft. of shaft and 25 ft. of drift.
Examination: Property examined by field engineers August 4 and August 7, 1953. Report by E. O. Binyon and J. A. Redden received August 21, 1953 recommended that the application be denied.

Denial and closing: See Administrator's letter of denial. (Copy attached hereto).

Summary of Docket:

7/1/53 Received application MF-103.
7/2/53 Receipt of application acknowledged.
7/8/53 Memo from USGS suggesting that application be referred to field team.
7/17/53 Application referred to Region V.
8/21/53 Report of Examination by Field Team. E. O. Binyon, USBM and J. A. Redden, USGS. They recommend a denial of application after examination of the property August 4 and August 7, 1953.
8/27/53 Memo from D. M. Larrabee, USGS concurring in field team's recommendation.
Memo from W. F. Dietrich, concurs in a denial of application.

R.C.G.
9-9-53

Resume: The applicant applied for a project to sink a 8x10' shaft to a depth of 50 feet and from the bottom of proposed shaft to drift a distance of 25 feet; the cost of the work was estimated at approximately $4,000.00.

According to the field engineer's report, the pegmatite outcrop strikes N. 28° W. and has an average dip of 48° S.W. Its length is 135 feet and maximum thickness is 14 feet. There is a 3-foot wall-zone consisting of quartz-perthite-plagioclase-muscovite pegmatite in which are found muscovite books averaging about 1 1/2 inches in diameter; some books as large as 8 inches in diameter are present. However, the muscovite is stained or has other defects. Only a small percentage could be considered as possible good stained in quality. A 2 inch crystal of beryl was noted in the inner zone of the pegmatite.

Because of the relatively small size of the muscovite books, low percentage of mica in the 3-ft. wall zone, and the poor quality of observed mica and the relatively small size of the sill-shaped pegmatite, it is recommended by the field team that the application be denied. The limited prospects for finding ore in significant amounts does not warrant Government participation in the proposed project. The commodity groups of Geological Survey and the Bureau of Mines concur in the views of the examining engineers.

Comments and Recommendation: The pegmatite exposed on this property appears to be a thin sill-shaped pegmatite offering insufficient prospects for developing good quality ore. The Nonmetallic Minerals Division concurs in the evaluation made by the field engineers and recommends that this application for exploration aid be denied.

Jasper T. Robertson
Nonmetallic Minerals Division

JTRobertson:gad 9/4/53
Copy to: Admr. R. File
Docket File
Mr. Houk

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

September 4, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-3105 - Mica
Arthur Mateske (owner)
The Dale Mine, Custer, South Dakota

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Property: The Dale Mine comprises an unpatented mining location within SE 1/4 Sec. 15, T. 4S., R. 4 E., BHBM. Claim recorded in Custer County in Bk. No. 17, Page 482 of locations. The mine lies 7 miles by good road South and slightly West of Custer, South Dakota.
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8/27/53	Memo from D. M. Larrabee, USGS concurring in field team's recommendation.
	Memo from W. F. Dietrich, concurs in a denial of application.

Resume: The applicant applied for a project to sink a 8x10' shaft to a depth of 50 feet and from the bottom of proposed shaft to drift a distance of 25 feet; the cost of the work was estimated at approximately $4,000.00.

According to the field engineer's report, the pegmatite outcrop strikes N. 28° W. and has an average dip of 48° S.W. Its length is 135 feet and maximum thickness is 14 feet. There is a 3-foot wall-zone consisting of quartz-perthite-plagioclase-muscovite pegmatite in which are found muscovite books averaging about 1 1/2 inches in diameter; some books as large as 8 inches in diameter are present. However, the muscovite is stained or has other defects. Only a small percentage could be considered as possible good stained in quality. A 2 inch crystal of beryl was noted in the inner zone of the pegmatite.

Because of the relatively small size of the muscovite books, low percentage of mica in the 3-ft. wall zone, and the poor quality of observed mica and the relatively small size of the sill-shaped pegmatite, it is recommended by the field team that the application be denied. The limited prospects for finding ore in significant amounts does not warrant Government participation in the proposed project. The commodity groups of Geological Survey and the Bureau of Mines concur in the views of the examining engineers.

Comments and Recommendation: The pegmatite exposed on this property appears to be a thin sill-shaped pegmatite offering insufficient prospects for developing good quality ore. The Nonmetallic Minerals Division concurs in the evaluation made by the field engineers and recommends that this application for exploration aid be denied.

Jasper T. Robertson
Nonmetallic Minerals Division

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

August 27, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3105, Mica, Dale Mine, Arthur Mateske, Custer County, South Dakota

I concur in the field team's recommendation for denial of subject application on the basis that the mica would not be of sufficient quality or grade to warrant a loan.

W. F. Dietrich

W. F. Dietrich

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

IN REPLY REFER TO:
G-MD-CNM

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1953

August 27, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3105 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Arthur Mateske, 1037 Garden Street, Custer, South Dakota.
Name of property: Dale property.
Location of property: 7 miles SSW of Custer.
Date of field team report: August, 1953.
Authorship of field team report: J. A. Redden and E. O. Binyon.
Field team's recommendation: Denial.
Comments: No exploration or development work would result in a significant discovery of mica of strategic grade.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

D. M. Larrabee

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

August 19, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-3105, Dale Mine, South Dakota

Reference is made to your letter of July 17, 1953 regarding the subject docket.

Here are the original and three copies of the field team report recommending denial of the Mateske application.

A. B. Needham
Executive Officer, Field Team
Region V

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
8-28-53
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 21 1953
9/9/53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM

REGION V

DMEA DOCKET NO. 3105

Dale Mine
Custer County, South Dakota

E. O. Binyon, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

August, 1953

Reviewed by
DMEA OPERATING COMMITTEE
8-28-53
(date)

DEFENSE MINERALS EXPLORATION ADMINISTRATION
Report of Field Examination

by

E. O. Linyon, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

Docket No.: 3105
Applicant: Arthur Mateske
1037 Garden St.
Custer, S. Dak.
Commodity: Mica

SUMMARY

The Dale property comprises one unpatented lode mining claim and is owned by Arthur Mateske, the applicant.

It is in Custer County, S. Dak., the SE 1/4 section 15, T. 4 S., R. 4 E., B.H.M.M. and is approximately 7 miles, by good road, south and slightly west of Custer, the nearest rail point and supply center.

Workings consist of two small open cuts, as shown on the accompanying map. There are no surface facilities or underground working on the property.

The pegmatite, a thin sill shaped body, is approximately 135 feet in length and has a maximum thickness of about 14 feet. It strikes N. 28° W. and has an average dip of 45° W.

Two zones are distinguishable, a mica bearing wall zone and an inner zone. The wall zone averages 3 feet in thickness and consists of quartz-perthite-plagioclase-muscovite pegmatite with a muscovite content of 5 to 10 percent of the zone as exposed. The muscovite occurs mainly as books averaging 1-1/2 inch in diameter and is stained and has other defects as well. Only a very small percentage might possibly be of good stained quality.

In the inner zone, which is mostly graphic-perthite with some massive quartz, one 2 inch crystal of beryl was seen. A lack of any mica-rich shoots on the few contact irregularities along the pegmatite is apparent.

Reviewed by
DMEA OPERATING CONTRACTS
8-28-53
(Date)

CONCLUSIONS AND RECOMMENDATIONS

Owing to the small size of the pegmatite, the narrowness of the mica-bearing wall zone and to the low percentage of mica in the zone, as well as low content of other recoverable salable minerals, it is concluded that the pegmatite does not warrant exploration. The proposed shaft and drift, or any exploratory or development work on the pegmatite would not result in a significant discovery of mica of good stained or better quality. Also, the quantity of scrap mica and other salable minerals that might be recoverable preclude economic mining of the pegmatite by either surface or underground methods.

Based on the foregoing conclusions, it is recommended that the application be denied.

Examinations of the property were made individually be members of the field team on August 4th and 7th. The applicant did not accompany either member on the examination but had previously discussed the application, at different times, with both members.

Approximately 4 hours were spent in the discussions, examinations, and preparation of the accompanying map.

NAME AND LOCATION OF THE PROPERTY

The property, known as the Dale Mine, consists of one unpatented lode mining claim on which the applicant holds a Quit Claim deed from G. D. Doughty and Clyde Gordon, both of Custer, S. Dak.

The claim was relocated by Doughty and Gordon on September 29, 1952 and notice of relocation was filed on October 3, 1952 with the Register of Deeds at the Custer Courthouse in Location Book No. 17 on page 482.

The claim is in Custer County in the SE 1/4 section,15, T. 4 S., R. 4 E., B.H.B.M. and is approximately 7 miles south and slightly west of Custer, S. Dak.

To reach the property, go south on Highway 85-A to just past Sanator, turn right onto an unpaved gravel road, cross the railroad tracks and continue on this road for about 1 mile to a farm house and building on the left. Turn right onto an unimproved dirt road, go through a gate and continue about 1/4 mile to the property.

Roads are good and the property is accessible the year around.

Custer is the nearest shipping point and is the supply center for small mining supplies.

DESCRIPTION OF THE PROPERTY AND PAST OPERATIONS

The two open cuts shown on the accompanying map are the only workings on the property. The southernmost cut is shallow, only about 6 feet in depth and the one to the northwest is an incline extending to a depth of about 16 feet to the top of the loose muck. The depth below the muck could not be determined but apparently is not much over 20 to 25 feet below the rim.

There are no surface facilities or underground workings.

The applicant stated that some mica had been sold from the property during World War II, but no record of the amount or quality could be found.

GEOLOGY

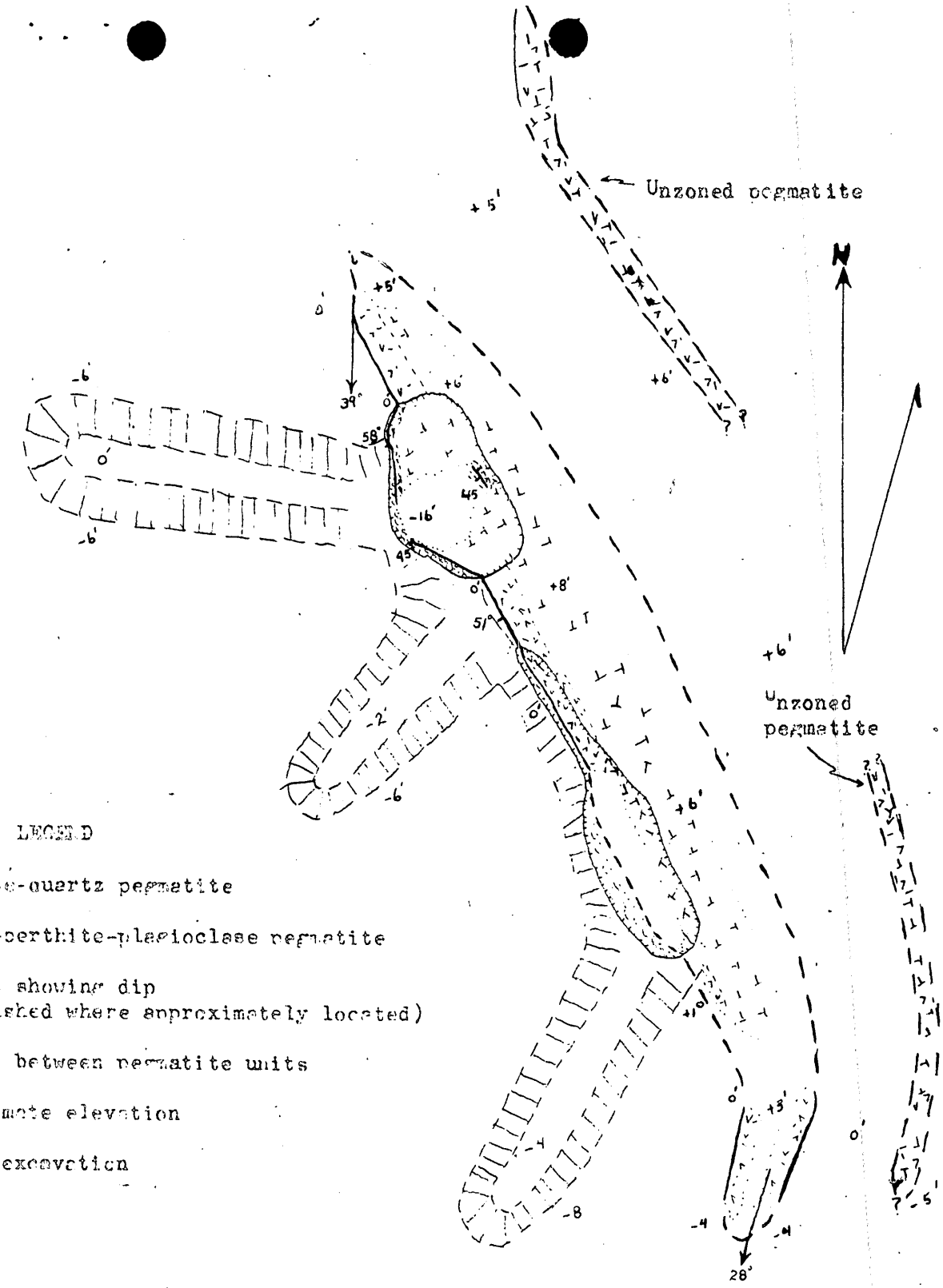
The pegmatite is a thin, sill-shaped body which strikes about N. 28° W. and has an average dip of 48° SW. Its length is approximately 135 feet and its maximum thickness is about 14 feet. The probable plunge is 28° to 38° S. to S. 10° W.

Two zones are distinguishable in the pegmatite; a wall zone consisting of quartz-perthite-plagioclase-muscovite pegmatite, and an inner zone of perthite-quartz pegmatite. The wall zone averages about 3 feet thick. Quartz is most abundant in the zone and perthite and plagioclase are nearly equal in abundance. Muscovite constitutes from 5 to 10 percent of the zone as exposed. The muscovite books average about 1½ inches in diameter, although books as much as 8 inches in diameter are present. Most of the muscovite was stained or had other defects. Only a small percentage could be considered as possible good stained quality.

The inner zone is mostly graphic perthite. Massive quartz is fairly abundant. The other minerals are accessory plagioclase, tourmaline, and muscovite. One 2 inch crystal of beryl was present.

The relatively small size of the muscovite books, low percentage of mica in the wall zone, and poor quality of the observed mica are not favorable for additional exploration. In addition, the relatively small size of the pegmatite and of the mica bearing zone are not favorable for additional minerals other than the small amount of mica present. The lack of rich mica shoots in the few contact irregularities is not favorable.

It is recommended that the application be denied on the basis of the above reasons. It is admitted that a little good stained or better mica could be recovered from the pegmatite, but the expected reserves do not warrant exploration. It is doubtful that the mine could operate on a paying basis if the cost of the shaft was gratis.



Prepared for DMEA by J. A. Reddon, U. S. G. S, Aug. 3, 1953

Face and Compass Map, Dale Pegmatite, SE¼ Sec. 15, T. 4 S., R. 5 E. Custer County

PROPOSED WORK

Only a brief discussion of the proposed work was held with the applicant and this was prior to the examination and the date the application was submitted.

The applicant proposes to sink an 8' by 10' shaft to a depth of 50 feet and to drift 25 feet along the pegmatite. The total estimated cost of the proposed work is $4,000.00.

Owing to the small size of the pegmatite and of the mica bearing wall zone, as well as the low percentage, size and quality of mica in the zone, it is the opinion of the field team that the probabilities of a significant discovery are too unfavorable to warrant exploration.

Also, from the quantity of other salable minerals, feldspar and beryl present in either the wall or inner zone, it is concluded that any exploration or development could not be undertaken and result in an economic mining operation.

It is most unlikely that exploration would result in a discovery of sufficient mica of suitable quality or grade, or of other salable minerals, to repay even a much smaller amount than the $3,600.00, which is the government's share of the loan applied for in the application.

It is therefore recommended that the application be denied.

RECEIVED
AUG 19 1953
DEPT. OF INTERIOR
BUREAU OF MINES
MINNEAPOLIS, MINN.
REGION V

FILE COPY
SURNAME:

Robertson
Hardy
Selfridge
F.J. Johnson

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

600

JUL 17 1953

Mr. A. B. Needham
Executive Officer, DMEA
Field Team, Region V
2908 Colfax Avenue, South
Minneapolis 8, Minnesota

Subject: Docket No. DMEA-3105 - Mica
The Dale Mine
Custer County, South Dakota

Dear Mr. Needham:

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

Copies of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Approved:

J. H. Hedges (JHB)
Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)
Member, Geological Survey

Enclosures 4

JTRobertson:gad 7/15/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.S. 7-17-53

FILE COPY
SURNAME:

Robertson
Houk
Kimbel
~~Hedges~~
~~Setzkorn~~

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

JUL 17 1953

Mr. Arthur Mateske
1037 Gordon Street
Custer, South Dakota

Re: Docket No. DMA-3105 - Mica
The Dale Mine
Custer County, South Dakota

Dear Mr. Mateske:

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. A. B. Needham, Executive Officer, DMEA Field Team, Region V, 2908 Colfax Avenue, South, Minneapolis 8, Minnesota, for further consideration and possibly a field examination.

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

Sincerely yours,

FRANK E. JOHNSON (B.D.H.)
ACTING Administrator

JTRobertson:gad 7/15/53

Copy to: Admr. R. File
Docket File
Field Team, Region V
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C. 7-17-53

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

July 9, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3105, Mica, The Dale Mine,
Custer County, South Dakota

No data are available in this office on subject property. It is suggested that the field team visit this property when a member of the field team is in that vicinity to ascertain if an exploration program is justified.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:
G-MD-CNM

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

July 8, 1953

Memorandum

REVIEW OF APPLICATION DMEA-3105 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: Arthur Mateske, 1037 Gordon Street, Custer, South Dakota.
Name of property: Dale Mine.
Location of property: Custer County, South Dakota.
Summary of applicant's proposal:
8 by 10 ft. shaft to 50 feet, then drift 25 feet.
Sources of information on applicant's property: None.
Comments: None.
RECOMMENDATION: Refer to field team.

D. M. Larrabee

July 2, 1953

Mr. Arthur Mateske
1037 Gordon Street
Custer, So. Dakota

Subject: DMEA-3105
Re: Exploration Assistance
Dale Mine

My dear Mr. Mateske:

The receipt of your application dated June 29, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3105 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-3105 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

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

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
JUL - 1 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-3105
Metal or Mineral
Date Received 7/1/53
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: Arthur Mateske
% 1037 Gordon St
Custer So. Dakota

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Dale Mine: "This claim lies about 8 miles SW of Custer, S.D. and joins the A. Ohm place(HES 529 in T 4 S R 4 E BHM) SE otherwise is surrounded by U.S. Forest Reserve; joins Schundler Feldspar Roadside Claim on the East and Mayflower claim on the West
Bk 17 Page 482

(*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 OWNER
The DALE MINE

(*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.

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

(*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 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[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 June 29, 1953

Arthur Mateske
(Applicant)

By .....

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

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

Instruction & Question #4

4-A Mining operations were begun in 1943 to a depth of about 8 to 15 feet, aside from assessment work, the property has not been mined since that time. There are no production facilities on the property as of now. Accessability is excellent, good roads lead up to the property and mine.

4-B Not in production now, estimate past production at about (2) two tons cobb mica, some feldspar, some Beryl.

4-C The mine contains Plate mica, Feldspar, with some Beryl, it has the usual hanging slate wall next to which is evidence of about a 4 ft. (width) vein of other type rock containing plate mica in books. Reasons for exploration is to determine richness and depth of deposit and continuance of plate mica to lower levels.

4-D Mine lays about 7 miles south east of Custer, So. Dakota. 6¼ miles black top highway 85A, and ¾ mile graded road. Mica is to be delivered to Gov't. buying station in Custer, S. D.

4-E Manpower and equipment is available.

5-A Exploration project.

5-B Plans are to sink a shaft 8x10 to a depth of 50 feet below present pit level which is about 15 feet from top ground level; and a 25 foot drift along hanging slate wall from bottom of proposed shaft.

5-D I have studied mining possibilities in the Black Hills for several years and know the problems which must be met, although I have personally done little mining.

Mr. Amos Burnside of Custer, S. D., who would be in full charge of operations, is a very capable miner with years of actual experience and has done considerable shaft and drift mining, competent and of good repute.

6 Estimate of costs

6-A None

6-B Supervision plus his time as laboter $ 1.75 per hr.
Two (2) hired men, not over 1.50 per hr.
No engineers or consultants

6-C Materials & Supplies

Gasoline & Oil	3.70 per day
Powder, fuses and caps	7.00 per day
Resharpening of drill bits, average	2.25 per day
Steel track	50.00
Timbering 7x8 and 4x10 @$90.00 per M.	600.00
Head frame for shaft	400.00

6-D Rental of Air compressor, air hose, jack hammer, per month 150.00
Rental of Hoisting equipment per mo. 50.00
Trucking, cost per day, average 2.00

6-E None

6-F None

6-G Only incidental expense expected per mo. 25.00

6-H Contingincies, Compensation Ins., Unemployment Inx. 3% of payroll

Total Costs

Labor-416 man hours @ $4.75 per hr.	$1976.00
Fuel and Oil $3/70 per day-52 days	169.40
Sharpening drill bits	112.50
Powder, fuse & caps	364.00
Steel track	50.00
Timbering	600.00
Trucking	104.00
Rental of drilling and hoisting Equip.	400.00
Incidental expenses	50.00
Compensation Ins.	118.56
Unemployment Ins.	59.28
Total Cost	$4003.74

Custer S.D.
Feb 12th 1952

Dear Mr Matiske

Am sending your sample back as I know you do not have too many with you.

This passes the voltage requirements and will go under visual inspection but not as #1 - as this piece has some uneven reeves in it - but I handled quite a number of pounds of Mica from this same "Dale Mine" that were much better than this sample is during the last Mica program.

I have been home with the flu for three weeks but am at work again to-day.

Kindest regards
Gladys Wells

Custer, S. Dakota
November 23, 1943

Dear Art:

At the Dale mine we have found plenty of good mica in the floor of the pit which is too deep to take out by wheelbarrow or car so we are right now setting up an aerial arrangement system--a 5/8 cable from tree to tree over the pit and perhaps 18-20 feet high from ground level. On this cable we run a heavy-duty hayfork carrier using a better than 1/2 barrel size for a muck bucket instead of a hayfork, with a little reversible drum hoist we have to lift the bucket from the bottom of the pit up to the carrier. Carrier running out to point of dumping will dump automatic and we pull carrier back until it hits the trip over the pit and lets the bucket back down again.

Best regards and kindest wishes,

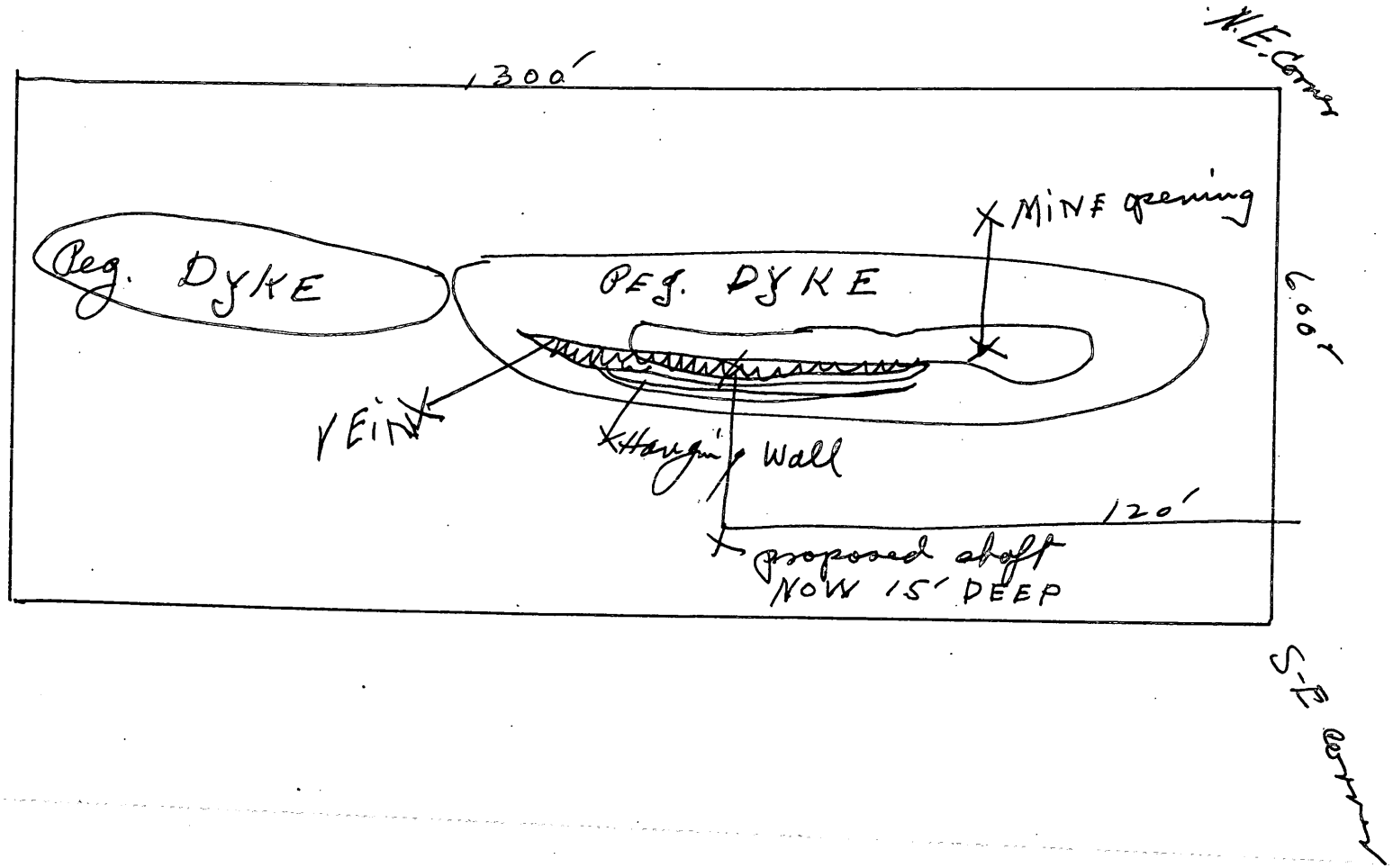
Clark J. Fry
by: J. A. Goldrick

P. S. There are very few men that I would place the confidence in that I do you, Art, by sending you these 4 signed Agreements. I hope that you sincerely appreciate that.

Clark

North EAST

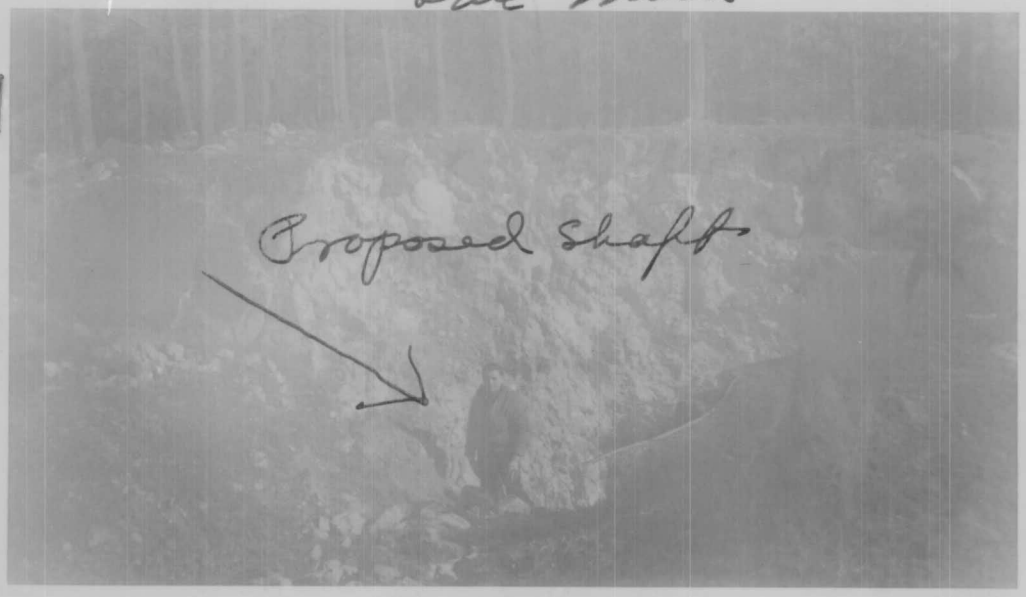
Dale mine



DMEA-3105

Not DRAWN to SCALE

Dale Mine



DMEA-3105

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SPOKANE 4, WASHINGTON

U.S. WASH JE 18 7 PM 1953

Mr. George C. Selfridge, Chairman

Operating Committee

Defense Minerals Exploration Administration

Department of the Interior

Washington 25, D. C.