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

DMA

REGIONAL DIRECTOR'S OFFICE
REGION IV
AUG 20 1951
BUREAU OF MINES
DENVER, COLORADO

August 14, 1951

Petate Asbestos Mines Company, Inc.
P. O. Box 1506
Globe, Arizona

Subject: DMA 421-4; Asbestos
Exploration Aid $45,000

Gentlemen:

Your application for aid for an exploration project on an asbestos deposit in Gila County, Arizona, docketed as DMA 421-4, has been reviewed by this office.

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

A very careful study of your proposal revealed the following:

1. A sound geological basis to justify the proposed exploration has not been demonstrated.

2. Examination by DMA Field Team has failed to provide a sound geological basis for the project.

Under these circumstances your application for exploration aid to the extent of 90% of $45,000 is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

R. Weakey/map

cc: Reports and Records Unit
Mr. Lyon
Mr. Farr
DMA File
Field Team Region IV (2)

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

REGIONAL DIRECTOR'S OFFICE
REGION IV
AUG 20 1951
BUREAU OF MINES
DENVER, COLORADO

August 1[illegible], 1951

Memorandum:

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA 651-X; Asbestos
[illegible]
Rotate Asbestos Mine Co., Inc.

Denial recommended because:

1. Sound geological basis not presented.

2. Field Team examination failed to demonstrate a sound geological basis to justify proposed exploration.

We are forwarding the entire docket which includes the following:

1. Memo from J. J. Norton.
2. Form DF-103 and attachments in duplicate.

James A. Vann, Jr.

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

FWO
8-21-51

R.Waskey/ map

cc: Reports and Records Unit
Mr. Lyon
Mr. Hart
DMA File
Field Team Region IV (2)

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

REGIONAL DIRECTOR'S OFFICE
REGION IV
AUG 22 1951
BUREAU OF MINES
DENVER, COLORADO

August 14, 1951

Metate Asbestos Mines Company, Inc.
P. O. Box 1506
Globe, Arizona

Subject: DMA 451
Loan of $100,000

Gentlemen:

Your application for a Government loan to develop, equip and operate asbestos deposit in Gila County, Arizona, docketed as DMA 451, has been reviewed by this office.

Projects approved by the Defense Minerals Administration must, in its judgment, showdefinite promise of yielding material of acceptable grade, physical character, and specifications, in quantities that will significantly improve the mineral supply position for National Defense. Where a loan for development and operation is involved it must be conclusively demonstrated that adequate mineral reserves are present to justify the project and assure its economic feasibility with respect to repayment.

A very careful study of your proposal revealed the following:

1. Data submitted did not substantiate existence of an adequate proven reserve of mineral to justify the project.

2. Examination by DMA Field Team failed to produce evidence substantiating adequate reserves.

Under these circumstances your application for a Government loan in the amount of $100,000 is denied. Should additional information become available we would be glad to have you resubmit your proposal for consideration.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

R. Waskey/ map

cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA File
Field Team Region IV (2)

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

August 14, 1951

Memorandum:

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA 151; Asbestos.
Loan of $100,000

Denial recommended because:

1. Adequate reserves not demonstrated by applicant.

2. Field Team examination failed to produce evidence of adequate reserves to justify project.

We are forwarding the docket which includes the following:

1. Report from Field Team
2. Form 5070 and attachments in duplicate.

SIGNED

James A. Barr, Sr.

Approved:

JME

Tom Lyon

Tom Lyon, Director
Supply Division

R.Waskey/map
cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA File
Field Team Region IV (2)

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM Walter R. Storms

BUREAU of Mines

CHG. APPROPRIATION Full rate DMA

Tucson, Ariz. June 27, 1951

U. S. GOVERNMENT PRINTING OFFICE 10—1723

Phoned frj

Paul T. Allsman
U. S. Bureau of Mines
224 New Customhouse
Denver, Colorado

Examiner recommends exploration loan for DMA Docket 451 be denied.

Walter R. Storms

CC Confirmation
C. A. Anderson
DMA 451
DF

WRStorms:frj

Mining Division
Date Rec'd.
JUL 2 1951
BUREAU OF MINES
Denver, Colorado

TRAVELERS IN THE KNOW—
TELEGRAPH AS THEY GO
FOR RESERVATIONS
TO KEEP IN TOUCH WITH HOME AND OFFICE
TO SEND AND RECEIVE MONEY QUICKLY, SAFELY
6070 (51)
FOR SMOOTHER TRAVELING — USE TELEGRAMS

WESTERN UNION

1201 (51)

W. P. MARSHALL, PRESIDENT

SYMBOLS
DL=Day Letter
NL=Night Letter
LT=Int'l Letter Telegram
VLT=Int'l Victory Ltr.

Time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

LA307

DMA

1951 JUN 27 PM 3 58

L TSA465 PD=TUCSON ARIZ 27 333P=

PAUL T ALLSMAN, US BUREAU OF MINES=

224 NEW CUSTOM HOUSE DVR=

EXAMINER RECOMMENDS EXPLORATION LOAN FOR DMA DOCKET 451 BE DENIED=

WALTER R STORM=

Rec'd 4:30 pm

Mining Division
Date Rec'd
JUN 27 1951
BUREAU OF MINES
Denver, Colorado

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

Air Mail

June 19, 1951

Memorandum

To: DMA Field Team, Region IV, Denver, Colorado
Through: Mr. A. H. Koschmann

From: A. F. Shride, Tucson, Arizona

Subject: DMA #451, Metate Asbestos Mines, Inc., Gila County, Arizona

In the Field Team's letter transmitting the above brochure, it is stated "This application is for a direct loan - - -." It seems to me that a development loan of $108,000 was originally submitted on January 11, and that an amended application for an exploration loan was submitted on May 7. MF-103 and supporting data have been submitted. I also know that the applicant intended by filing MF-103 to amend his application to one proposing exploration.

of $45,000

This is just to inform you on this docket. Mr. Storms is out of town today. If he agrees with my interpretation of the docket on his return, we shall consider DMA #451 an exploration proposal and process it as soon as possible.

A. F. Shride

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Charlotte
Pls check on these brochures and bring in team meeting
JHE

pse
no reply required.

224 New Customhouse
Denver, Colorado

June 11, 1951

Memorandum

To: W. R. Stearns
(Through, Chief, Mining Division)

C. A. Anderson

From: DMA Field Team, Region IV

Subject: DMA 451, Metate Asbestos Mines, Inc., Globe, Arizona

We are enclosing the brochure of the Metate Asbestos Mines, Inc., Globe, Arizona, DMA 451. You will note that it is suggested that this investigation be in conjunction with DMA 244.

This application is for a direct loan and as you were advised sometime ago, applications for direct loans should be subordinated to exploration loans.

Please return the brochure when you submit your report.

J. H. East, Jr.

A. H. Koschmann

Attachments
Brochure
Files
Koschmann

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

DIRECTOR'S OFFICE
REGION IV
JUN 8 - 1951
BUREAU OF MINES
DENVER, COLORADO

May 31, 1951

Mr. J. H. East, Jr., Executive
DMA Field Team - Region IV
224 New Customhouse Building
Denver 2, Colorado

Thru: Coordinating Committee

Application of
Metate Asbestos Mines, Inc.
Globe, Arizona

Subject: DMA-451
Commodity: Asbestos

Dear Mr. East:

Will you please investigate the subject application, especially as to reserves and give us your recommendation on the practicability of the proposed project.

We suggest that this investigation be conducted with a previously requested investigation of DMA-244, American Asbestos Cement Corporation, as outlined in letter of January 4, 1951, for Acting Chairman, DMA Commodity Committee.

Sincerely yours,

Tom Lyon
Chairman

Approved:

Lowell B. Moon
Member, Bureau of Mines

Alex T. Roe
Member, Geological Survey

G-MD-JJN

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

May 29, 1951

Memorandum

To: James A. Barr

From: J. J. Norton

Subject: Application DMA-451 from Metate Asbestos Mines, Inc., Globe, Arizona, for a development loan of $108,000 and an exploration project costing $45,000.

We have examined our asbestos files and find no data on the properties of Metate Asbestos Mines, Inc., in Gila County, Arizona, for which a development loan and an exploration grant have been requested.

The applications contain no indication that the Metate Asbestos Mines Co. has evidence for reserves of sufficient size to justify the $108,000 development loan requested. Even if the development loan application is not worthy of consideration, an exploration project may be warranted. Consequently, I suggest that this application be sent to the field team for evaluation of both the exploration application and the development loan application. If insufficient evidence for reserves of strategic asbestos can be found by the field team, the application for a development loan should be denied, and only the exploration proposal should be considered.

If, as you have told me, you also have an exploration application from the American Asbestos Cement Co., then it would be wise to make a field evaluation of their proposal at the same time the Metate properties are examined. Even if no exploration application has been received from the American Asbestos Cement Co., the field team may wish to find out what has been happening. You will remember that all action on the American Asbestos Cement Co. application was stopped several months ago for lack of evidence for reserves. The company stated at that time that a drilling program was being started, and DMA agreed to reconsider the application as soon as the drilling results were available. Perhaps now is the time to take this application out of the deep freeze and do something with it.

J. J. Norton

JJNorton:jeh
G-5/29/51

copy to: Director's Reading file, Rm. 4212 , GSA Bldg.
Branch reading file, Rm. 4212 " "
JJNorton 2 A. F. Shride
DMA files

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

[illegible] 21, 1953

[illegible] Asbestos [illegible], Inc.
Globe
Arizona

Subject: [illegible]

Gentlemen:

Your application for a [illegible] under provisions of the Defense Production Act of 1950 has been reviewed by the Industrial Materials Branch of Defense Minerals Administration.

Before your request can be given further consideration it is desirable that we have additional information. Therefore, your application has been referred to the appropriate field team for action.

Sincerely yours,

For [illegible] Director
[illegible] Division

[illegible]

cc: Mr. Lyon
Mr. [illegible]
Mr. [illegible]
Mr. [illegible]
Mr. Strobel
Field Team - 2 copies
DMA Files
Mr. Moon

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

DMA

January 26, 1951

REGIONAL DIRECTOR'S OFFICE
REGION IV
JAN 29 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. Jack L. Neal
Vice President
Metate Asbestos Mines Company
651 E. Kline Street
Globe, Arizona

Dear Mr. Neal:

We wish to acknowledge receipt of your application for a loan to be used in the development of an asbestos mine. Your application has been assigned Defense Minerals Administration No. DMA-451. It will be reviewed and you will be notified as soon as possible.

Sincerely yours,

James A. Barr
Chief, Nonmetallics Branch

DMH

January 4, 1951

Mr. Jack L. Neal
Mohave Asbestos Mining Company
652 E. Kline Street
Globe, Arizona

Dear Mr. Neal:

Due to the large volume of inquiries we have received concerning the kinds of Government aid available to mining enterprises under the terms of the Defense Production Act, it has not been possible to answer your letter of December 7 until now.

Attached are five copies of Form NSRB-146 and one copy of the regulations pertaining thereto. This form should be submitted in quadruplicate to the Defense Minerals Administration; you may keep one copy for your file.

A press release dated December 5, copy attached, describes the types of assistance that can be given to mining enterprises. The last paragraph of this release outlines the type of information we need in addition to that given in the form.

Sincerely yours,

L. B. MOON

Lowell B. Moon
Assistant to the Administrator

Enclosures 7

LBMoon:GR:SE

Copies to: J. H. East, Denver, Colorado
L. B. Moon
files

DMH

January 4, 1951

Mr. Jack L. Neal
Metate Asbestos Mining Company
651 E. Kline Street
Globe, Arizona

Dear Mr. Neal:

Due to the large volume of inquiries we have received concerning the kinds of Government aid available to mining enterprises under the terms of the Defense Production Act, it has not been possible to answer your letter of December 7 until now.

Attached are five copies of Form MSRB-146 and one copy of the regulations pertaining thereto. This form should be submitted in quadruplicate to the Defense Minerals Administration; you may keep one copy for your file.

A press release dated December 5, copy attached, describes the types of assistance that can be given to mining enterprises. The last paragraph of this release outlines the type of information we need in addition to that given in the form.

Sincerely yours,

Lowell B. Moon
Assistant to the Administrator

Enclosures 7

LBMoon:GR:SE

Copies to: J. H. East, Denver, Colorado
L. B. Moon
files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF
REGIONAL DIRECTOR

REGION IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

November 8, 1950

PMA 451

Mr. Jack L. Neal
Metate Asbestos Mines Company
651 E. Kline Street
Globe, Arizona

Dear Mr. Neal:

This will acknowledge receipt of your letter dated November 5, 1950, regarding Government mining loans under the Defense Production Act of 1950.

We have not received definite instructions from Washington regarding the mechanics of securing a Government loan; however, we are enclosing a form letter which indicates the type of information you should be prepared to furnish when the details of securing a Government loan are worked out.

Additional information may be required when the regulations have been issued.

Sincerely yours,

J. H. East Jr.
(lm)

J. H. East, Jr.
Regional Director

Enclosure

/lm

cc: PT Allsman
WR Storms

MINES
GILA COUNTY
GLOBE, ARIZONA

651 E. KLINE STREET
GLOBE, ARIZONA
TELEPHONE 261-J

METATE ASBESTOS MINES COMPANY

Producers of

WORLD'S FINEST CRUDES AND SPINNING FIBRE

OFFICE
REGION IV
NOV 7 1950
BUREAU OF MINES
DENVER, COLORADO

Nov. 5, 1950

J. H. East, Jr.
Regional Director
U. S. Bureau of Mines
Region IV 224 New Customhouse
Denver 2, Colo.

Dear Sir,

Could you give us any information in regards to the federal aid for small mines.

We own and are operating a small high grade asbestos mine here in Gila county. Our fibre has been accepted for the national stock pile but our finances has all been put into the airial tram and the mill. We need money for more developing and enlargeing upon our operations. Could tell us about when this program will be put into effect and to who do we apply. And anymore information will be greatly appreciated.

Awaiting your reply, we remain

Very truly yours

Jack L. Neal

Jack L. Neal

gfn/JLN

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

July 18, 1951

Memorandum

To: Landon Strebel, Executive Secretary
Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 451, Metate Asbestos Mines, Inc.,
Gila County, Arizona

Herewith is transmitted the original and two copies of the examiners report on the above docket.

It is noted that A. F. Shride of the Geological Survey recommends that the request for funds for exploration loan be denied. Linceln A. Stewart of the Bureau of Mines has reviewed the report and concurs with the conclusions.

Also attached to the report is a letter from Mr. Shride indicating that denial of this report is based on geologic factors and should not prejudice any future applications by the applicant on other properties.

P. T. Allsman, Alternate

A. H. Koschmann

Attachments
One copy by Air Mail
One copy by Regular Mail

FOR GOVERNMENT USE ONLY

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

200 New Customhouse
Denver 2, Colorado

July 11, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: Memorandum Report on DMA Docket 451, Metate Asbestos Mines, Inc., Gila County, Arizona

Enclosed are the original and 5 copies of the above memorandum by A. F. Shride of the Geological Survey.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

July 6, 1951

Memorandum

To: Field Team, Region IV
Through: Mr. A. H. Koschmann

From: Mr. A. F. Shride, Tucson, Arizona

Subject: Memorandum Report on DMA Docket 451, Metate Asbestos Mines, Inc., Gila County, Arizona

Enclosed are 1 original and 5 copies of the above memorandum by A. F. Shride of the Geological Survey. The memorandum recommends that an exploration loan be denied. Lincoln A. Stewart (Bureau of Mines), who has had much experience in the Arizona asbestos district, has reviewed this memorandum. On the basis of the statement that the subject deposit is in stratigraphically unfavorable limestones he agrees with the conclusions and recommendation.

No copies of the memorandum are to be returned to Tucson.

The brochure is enclosed.

A. F. Shride

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 7

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. Box 4126, University Station
Tucson, Arizona

July 6, 1951

Memorandum

To: Field Team, Region IV
Through Mr. A. H. Koschmann

From: A. F. Shride, Tucson, Arizona

Subject: Future Application for Exploration Loan by Metate Asbestos Mines, Inc., Globe, Arizona

The applicant has informed me, that if the exploration program is renewed, Metate Asbestos Mines, Inc. may apply for exploration aid for their Apache mine east of Globe. We know too little about this deposit to state whether or not a loan can be recommended. Offhand it would appear that the deposit may have merit.

This is just to inform those concerned that denial of Docket DMA 451 should not prejudice a future application by this company.

A. F. Shride

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

AHK

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

July 6, 1951

Memorandum

To: Field Team, Region IV
Through: Mr. A. H. Koschmann

From: A. F. Shride, U. S. Geological Survey, Tucson, Arizona

Subject: BMA Docket 451, Metate Asbestos Mines, Inc., Gila County, Arizona

The Metate chrysotile asbestos prospect in the NW¼, Sec. 15, T. 6 N., R. 14 E., Gila and Salt River B. and M., is the subject of a proposed exploration program to cost $45,000. Ninety percent of the exploration cost was to be borne by the Government. The writer examined the property in June 26, 1951. Although the ore zones are poorly exposed, it is obvious that the geologic setting is unfavorable for an asbestos deposit of much consequence; therefore it is recommended that a loan for exploration be denied.

The Metate asbestos deposit is approximately 15 feet below the top of an east-facing 80-foot high cliff along one of the minor tributaries to Cherry Creek, which in this vicinity has cut a canyon over 3000 feet deep. This is a locality of rugged relief; in profile cliffs 50 to 200 feet high alternate with steep brush- and timber-covered slopes. Talus obscures many of the outcrops. At the altitude of the Metate claims, approximately 6200 feet, there is mature fir and yellow pine timber. Adequate water for domestic use and a small mining

operation can be developed from nearby springs. The area is likely to be inaccessible due to heavy snowfall for several weeks at a time during the months December to March of a normal winter.

The deposit can be reached from the Globe-Young road by 5 miles of poor mountain road and approximately ½ mile of steep, narrow trail. The prospect is serviced from the end of the road by a 1100 feet aerial tramway. The junction of the mine road and the Globe-Young road is at the Reynolds Falls Forest Service Ranger Station 47.7 road miles from Globe, Arizona.

The asbestos occurs as narrow, non-persistent, cross-fiber veins in 5 serpentine zones that parallel bedding in the almost flat-lying gnarly limestones of the upper member of the pre-Cambrian Mescal formation. The fiber in all zones is for the most part soft and of high tensile strength. The bottom zone contains only traces of asbestos in places, but in other places the veins total as much as 2½ inches in thickness. This zone contains the most asbestos. The other zones are 2, 3, 9½, and 13 feet respectively above the bottom zone. Veins containing traces to 2 inch thicknesses of asbestos occur in the 4 upper zones but the lenses that contain appreciable quantities of asbestos in these zones are more widely separated laterally than in the lowest zone. The fiber exposed in any one zone or in any combination of 2 or more zones that might be exploited from a single mine heading is insufficient to warrant mining. The lower 3 zones are exposed by one 50-foot adit and by benches along the cliff face. The upper 2 zones are exposed by a 25-foot adit. Some steping has been done along the sides of both adits. Possibly 1 to 3 tons of all grades of asbestos have been produced from the deposit . The serpentine zones contain asbestos

intermittently for approximately 120 feet along the exposed cliff face to the east of the adits. West of the workings deep soil and talus cover the asbestos horizons.

A thick concordant diabase sill is in contact with the limestone an estimated 80 feet below the lowest fiber horizon. The limestone dips 5-10 degrees to the southwest. This dip may represent drag due to a discordant diabase intrusion in the talus-covered area 50-60 feet west of the adits. It can only be guessed from the attitude of the limestones that such an intrusion might exist. There are no exposures along the steep slopes to the west that suggest such a discordant intrusion. Diabase which cuts through the horizons of mineralization is one of the favorable factors in asbestos localization in the Arizona district. If such diabase does exist, the asbestos-serpentine zones might be more persistent toward the diabase. The applicant is now digging through the overburden to determine whether or not such is true.

The asbestos-bearing zones are about 30-40 feet below the top of the upper member of the Mescal limestone. Nearly all minable asbestos deposits in Arizona are in the lower member of the Mescal limestone. Past experience in the Gila County asbestos district has shown that minable quantities of chrysotile occur in the upper member only rarely, and then only where there is much shattering of the limestone due to thrust faulting or where the upper member is not massive and gnarly as is normal, but is flat-bedded and thin- to thick-bedded. There are no thrust faults exposed in the vicinity of the Metate deposit. The Metate deposit is close to an area where the upper Mescal limestone member is flat-bedded. However, in the vicinity of the deposit the gnarly, massive character

predominates. Bedding-plane faulting, which is one of the most significant factors in localizing Arizona asbestos deposits, seldom is effective in shattering and preparing the gnarly limestones for mineralization. There is little bedding-plane displacement at the Matate prospect. In numerous places in Gila County unsuccessful attempts to mine asbestos in areas of similar geologic environment have shown conclusively that only small, non-persistent lenses of serpentine and asbestos exist in such areas. Even if a discordant diabase intrusion (at present hypothetical) does exist under the talus to the west of the adits, it is unlikely that more than a few tons of chrysotile exist. If these few tons of fiber do exist, past experience in the district indicates that most of the fiber likely will be short. Therefore it would take a large tonnage of such asbestos to amortize an exploration program. It is unlikely that more than a ton or two of asbestos of spinning (strategic) lengths would be developed. This writer, on the basis of past experience in the district, would expect that no appreciable tonnage of asbestos of even non-spinning grades exists in the geologic environment of the Matate deposit.

Because of the geologic improbability of an asbestos deposit of minable size existing in the Matate area, it is recommended that Government participation in an exploration program be denied.

A. F. Shride
Geologist