MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7/15/53

REFERRED TO:

1. Code 600, Rm. 4637
2. Reg IV
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS:

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

DMA-2763
Arizona
Region IV

METATE ASBESTOS CORPORATION, GLOBE, ARIZONA. Chiricahua Mine, San Carlos Indian Reservation, Gila County, Arizona. 7-17-53
Letter to the Applicant denying the application. #243

DMA-2763
Arizona
Region IV

METATE ASBESTOS CORPORATION, GLOBE, ARIZONA. Chiricahua Mine, San Carlos Indian Reservation, Gila County, Arizona. 7-13-53
Field Report on reappraisal of the application and reaffirming recommendation of denial. The report was referred to the Commodity Group. No. 241

IN REPLY REFER TO:

G-MD-CNM

Defense Minerals Administration
RECEIVED
JUL 14 1953

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

July 13, 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2763 (asbestos)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Metate Asbestos Corporation, Gila County, Arizona.
Name of propert.: Chiricahua prospect.
Location of property: Gila County, Arizona.
Date of field team report: June 25, 1953.
Authorship of field team report: Andrew F. Shride and Lincoln A. Stewart.
Field team's recommendation: Denial.
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
G-7/13/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee files G-232

IN REPLY REFER TO:

Defense Minerals Administration
RECEIVED
JUL 14 1953

G-MD-CNM

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

July 13, 1953

Memorandum

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To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Metate Asbestos Corporation, Gila County, Arizona.
Name of propert : Chiricahua prospect.
Location of property: Gila County, Arizona.
Date of field team report: June 25, 1953.
Authorship of field team report: Andrew F. Shride and Lincoln A. Stewart.
Field team's recommendation: Denial.
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
G-7/13/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee files G-232

JUL 20 1953

Mr. Jack L. Neal, Vice President
Metate Asbestos Corporation
P. O. Box 1515
Globe, Arizona

Re: Docket No. DMSA-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. Neal:

Reference is made to your application for exploration assistance and the suspension of action for 120 days to allow you to do additional work on the subject property.

A re-examination of the property by the field team indicates that no work has been done on the property subsequent to the original field examination. Careful study of all our information, although noting a small amount of marginal ore 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,

FRANK E. JOHNSON

ACTING Administrator

LHHouk:gad 7/8/53
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region IV
Dr. Bowles, 3516
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

June 29, 1953

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region IV

Subject: Docket No. DMEA 2763 (Asbestos), Metate Asbestos Corporation

Enclosed are four copies of a report by Lincoln A. Stewart, U. S. Bureau of Mines engineer and four copies of a report by A. F. Shride, Geologist, U. S. Geological Survey.

Inasmuch as the applicant has not done any additional work on the project we recommend that the application be denied.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

Reviewed by
DMEA OPERATING COMMITTEE
7-13-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O. Box 4126, University Station
Tucson 5, Arizona

June 25, 1953

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: A. F. Shride, Tucson, Arizona

Subject: Reappraisal of DMEA 2763, Chiricahua Prospect (Asbestos), Metate Asbestos Corporation, Gila County, Arizona

In a letter to J. L. Neal, dated March 2, 1953, Mr. Mittendorf advised that action on the above docket would be held in abeyance for 120 days, pending further prospecting. Mr. Neal of the Metate Asbestos Corporation was advised to contact the Field Team when he wished reexamination. Mr. Neal's request was made directly to the Tucson office, and incidental to another examination the property was visited on June 23 by L. A. Stewart and A. F. Shride.

The applicant contends that a new discovery has been made to the east of the area previously examined. This is to advise that all exposures pointed out by Mr. Neal had been studied during the previous examination. Mr. Stewart and the writer concur that the descriptions and recommendations of the report submitted in December 1952 are adequate. It is recommended that action be completed on the application and that the application be denied.

Andrew F. Shride
Geologist

Reviewed by
DMEA OPERATING COMMITTEE

7-13-53
(date)

MINING DIVISION
REGION IV

June 24, 1953

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : Docket DMEA-2763, Metate Asbestos Corp.'s Chiricahua Asbestos Prospect, Gila County, Ariz.

On March 2, 1953, C. O. Mittenderf, DMEA Administrator, wrote to Mr. Jack L. Neal, vice-president of the above company and told him: "In compliance with your request we will hold further action on your application in abeyance for a period of 120 days from the date of this letter to enable you to complete the additional work. In the event that you uncover favorable evidence of asbestos mineralization on the three claims mentioned in your application, please advise the field team so that arrangements may be made for a re-examination of your property. If you fail to find a favorable location, please advise this office."

On June 15, 1953, the Metate Asbestos Corporation wrote to this office as follows: "We would like to make formal application for reopening of the loan application on the Chiricahua as the road is now completed past the mine we will be able to reduce the size of the loan to under $25,000.00. If possible we would like for you and Andy to make another inspection of the Chiricahua when you make your trip to the Mystery next week. The bulldozer has exposed the large fault in the building of the road" ("you and Andy" refers to L. A. Stewart of the Bureau of Mines and A. F. Shride of the Geological Survey).

Therefore, yesterday while in that locality, Stewart and Shride visited the Chiricahua prospect again. A copy of Stewart's memorandum report is attached in which he says that no additional work has been done at the Chiricahua since he and Shride originally examined it last December 2.

CC W. H. King (6)
DMEA-2763
DF

WRStorms:frj

Reviewed by
DMEA OPERATING COMMITTEE
7-13-53
(date)

The 120 days mentioned by the DMEA Administrator will not be up until July 1 but it now seems very doubtful if additional information will be found which will change the DMEA examiners original recommendations.

A separate memorandum report will be submitted by the Geological Survey concurring with Stewart's memorandum.

Walter R. Storms

Walter R. Storms

MINING DIVISION
REGION IV

June 24, 1953

Memorandum

To : Walter K. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Ariz.

From : Lincoln A. Stewart, Mining Engineer, Tucson, Arizona

Subject : Chiricahua asbestos prospect, Metate Asbestos Corp., DMEA-2763, Gila County, Ariz.

Under date of June 15, 1953, the Metate Asbestos Corporation made formal application to the Tucson, Ariz. office of the Bureau of Mines to re-examine the Chiricahua property (DMEA-2763). According to a letter of March 2, 1953 from C. O. Mittendorf, Administrator of Defense Minerals Exploration Administration, to the subject company, action on this docket was to be held in abeyance for a period of 120 days from date of letter, to allow for additional work on property.

The access road to the adjacent Mystery property, first phase of Stage I, DMEA-2760, Contract Idm-E527, was completed about June 19. This road passes across the Chiricahua property. Access to the latter property was possible, via the new road, by June 9 or 10.

On June 23, the writer and A. F. Shride, geologist of the Geological Survey, in company with D. E. Green and Jack Neal (the Mystery operators) drove over the new road and inspected the Mystery outcrop. On the return trip we stopped at the Chiricahua for the requested re-examination. At the time of the original examination the applicant had done no prospecting work (see "Conclusions", page 4 of engineering report, DMEA-2763). As of June 23, no work had been done to better expose the outcrop. No additional information was gained by this re-examination.

Therefore, the examining team has no reason to alter the conclusions and recommendations of their original report.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

CC W. H. King (orig. & 6)
DMEA-2763
DF

LAStewart:frj

Reviewed by
DMEA OPERATING COMMITTEE
7-13-53
(date)

IN REPLY REFER TO:

G-MD-CNM

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

February 5, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
FEB 10 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2763 (asbestos)

To: L. G. Houk, Defense Minerals Exploration Administration
From: J. J. Norton, U. S. Geological Survey
Applicant: Metate Asbestos Corporation.
Name of property: Chiricahua Asbestos Prospect.
Location of property: San Carlos Indian Reservation, Gila County, Arizona.
Date of field team report: January 1953.
Authorship of field team report: A. F. Shride and L. A. Stewart.
Field team's recommendation: Denial.
ACTION SUGGESTED: Follow field team's recommendation unless operator obtains information showing that this application warrants reconsideration, in accordance with his recent letter to you.

J. J. Norton

Norton:jeh
G-2/5/53
cc: Director's reading 4212
Branch "
DMEA
Norton G-230

IN REPLY REFER TO:
G-MD-CNM

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

November 5, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2763 (Asbestos)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: Metate Asbestos Corporation, P. O. Box 1516, Globe, Arizona.
Name of property: Chiricahua mine.
Location of property: Secs. 9 and 16, T. 2 S., R. 17 E., San Carlos Apache Indian Reservation, Gila County, Arizona.
Estimated cost of project: $30,725.
Summary of applicant's proposal:
About 10,000 feet of road building, 3 days of bulldozing, 475 feet of drifting, and 300 feet of crosscutting.
Sources of information on applicant's property:
There are no workings on the property, according to applicant. This is a raw prospect; fiber samples said to have come from this property are good quality, according to Shride of U.S.G.S.
Comments:
Based on the expectable potential of the average Arizona asbestos deposit, 775 feet of drifting is much too ambitious a program for a project such as this one. The project should be modified in field.
RECOMMENDATION:
Refer to field team.

R. E. Van Alstine

Van Alstine:jeh
G-11/5/52
cc: Director's reading file 4212
Branch " " "
DMEA
Norton G-230
Van Alstine G-230

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

[illegible] New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

January 26, 1953

Memorandum

To: Secretary to the Operating Committee

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2763, (Asbestos) Chiricahua Asbestos Prospect, Metate Asbestos Corporation, San Carlos Indian Reservation, Gila County, Arizona

Enclosed are the original and three copies of the report pertaining to the above application. The brochure is also enclosed.

The Field Engineers concur in recommending that the subject application be denied on the basis of the small amount of commercial asbestos in a considerable area of surface exposure and the lack of geologic potential. We agree with this recommendation.

W. H. King
W. H. King

A. N. Koschmann
A. N. Koschmann

Enclosures

Approved by
DMA OPERATING COMM.
2-6-53

MAR 2 1953

Mr. Jack L. Neal, Vice President
Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

Re: Docket No. DMEA-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. Neal:

Reference is made to your letter of January 26, 1953, requesting that your application for aid in an Exploration Project be held in suspension while you do additional work on your property.

In compliance with your request we will hold further action on your application in abeyance for a period of [illegible] days from the date of this letter to enable you to complete the additional work. In the event that you uncover favorable evidence of asbestos mineralization on the three claims mentioned in your application, please advise the field team so that arrangements may be made for a re-examination of your property. If you fail to find a favorable location, please advise this office.

Sincerely yours,

C. O. Mittendorf

Administrator

LMHouk:gad 3/2/53

Copy to: Admr. R. File
Docket File
Field Team, Region IV
Operating Committee
Dr. Bowles, 3516
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

224 New Customhouse
Denver 2, Colorado

February 6, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 12 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2763, Metate Asbestos Corp., Chiricahua Mine

Reference is made to your letter dated January 30, 1953, to which was attached a copy of a letter dated January 26, 1953, to Larry Houck from the Metate Asbestos Corporation.

A field examination was made on Docket DMEA 2763 and four copies of the final report recommending denial were transmitted from the Field Team to the Secretary of the Operating Committee on January 26, 1953. The amount of Government participation in this application exceeds $25,000, therefore the letter of denial should be sent to the applicant from the Washington office.

It appears that the applicant's request for suspension of processing this application has arrived in this office too late. The letter requesting this suspension was written directly to the Washington office and dated January 26, 1953, which is the same date that the Field Team transmitted the report recommending denial to the Secretary of the Operating Committee.

W. H. King

W. H. King

600

FEB 6 1953

Mr. Jack L. Neal, Vice President
Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

Subject: Docket No. DMEA-2760 - Asbestos
Mystery Asbestos Mine
Gila County, Arizona

Docket No. DMEA-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. Neal:

Reference is made to your telephone conversation on February 5, 1953, requesting information on the status of your leases in the Bureau of Indian Affairs, Mystery Mine, DMEA-2760, and Metate Asbestos Corporation, DMEA-2763, Chiricahua Mine.

Mr. Larkin of the Washington Office of the Bureau of Indian Affairs states that he will write a letter this week to the Phoenix Area Office that advertising the applications for leases be made in this case.

I hope you are successful in finding the faulted segments at the Apache, and that the long hole drilling from the crosscut is successful in locating the limestone.

Sincerely yours,

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

LGHouk:gad 2/6/53

Copy to: Admin. File
Docket File (2)
Field Team, Region IV
Dr. Bowles, 3516
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

630 JAN 30 1953

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

Subject: Docket No. DMEA-2763 - Asbestos
Metate Asbestos Corp.
Chiricahua Mine
Gila County, Arizona

Docket No. DMEA-2005 - Asbestos
Apache Mine (Idm-E473)
Gila County, Arizona

Dear Mr. King:

Transmitted herewith is letter of January 26, 1953, from Mr. Jack L. Neal of the Metate Asbestos Corp., requesting that their application on the Chiricahua Mine be held in suspension until such time as they can do some prospecting work on their own.

The location of the faulted segment at the Apache Mine, DMEA-2005, could make a good exploration project, if the field engineers think the size of the target justifies the search. A copy of our letter to you and Neal's letter to Washington are enclosed for transmittal to the Tucson office to bring their files up to date and for their reaction to an exploration project for the location of the faulted segment.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Enclosures 3

LGHouk:gad 1/29/53
Copy to: Admr. R. File
Docket File (2)
Operating Committee
Dr. Bowles, 3516
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

C
O
P
Y

METATE ASBESTOS MINES COMPANY

January 26, 1953

Defense Minerals Administration
Washington 25, D. C.

Attention Mr. Larry Houck

Dear Larry,

This is to confirm our recent conversation on the telephone that the Metate Asbestos Corporation request's that their Chiricahua mine exploration loan be held in suspension until such time that we can do some exploratory work on our own and recall the field team for another inspection if we think it will warrent it.

Yesterday at our Apache mine the swing shift broke into a large fault on our production face which looks bad. This might be the bottom for the Apache. We plan to do some test drilling to see if the vein faulted up or down but it may be all.

We hope to get the Chiricahua lease back soon so we can explore it and see if we can develop some fibre there to keep our mill running.

Very truly yours,

/s/ Jack L. Neal
Jack L. Neal

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Department of the Interior
Defense Minerals Administration
RECEIVED
FEB 2 1953

Mining Division
Region IV

January 26, 1953

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2763 (Asbestos) Christmas Asbestos Prospect, Metals Asbestos Corp., San Carlos Indian Reservation, Gila County, Arizona

Enclosed are the original and 6 copies of the Engineering Report on the subject property.

The applicant has requested financial assistance for the amount of $30,785 to construct a 5-mile road (approx) and explore an asbestos occurrence by means of 775 feet of drifting and crosscutting.

The examination by the Bureau of Mines revealed that four asbestos bearing serpentine zones in limestone are exposed on surface through an outcrop length of about 400 feet. The topography and dip and strike of the beds is such that the exposure is partly on dip, and partly on strike, and thus gives a fair sample of exploratory for some distance into the deposit. The content of asbestos in all four zones is sporadic and no concentration of commercial fiber was observed. There is no visible structure that might cause distortion of the limestone beds and thus make a target for possible exploration.

The Mining Engineer for the Bureau of Mines recommends denial of the application on the basis of a lack of commercial asbestos in a considerable area of exposure, and the absence of a satisfactory exploratory target. We concur with this recommendation.

W. H. King
W. H. King

Enclosures

Reviewed by
BUREAU OF MINES
2-6-53

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

MINING DIVISION
REGION IV

January 29, 1953

Memorandum

To : H. L. King, Chief, Mining Div., Region IV

From : Chief, Mining Methods Branch, Mining Div., Region IV

Subject : Final Report, Docket MMA-2703, Chiricahua Asbestos Prospect, Metate Asbestos Corp., San Carlos Indian Reservation, Gila County, Ariz.

Enclosed are original and 3 copies of the above report by Lincoln A. Stewart of the Bureau of Mines. I believe A. F. Ehride of the Geological Survey submitted his report sometime ago.

Because there seems little chance of finding commercial fiber, both examiners recommend that the loan application be denied. I concur with their recommendations.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

cc: H. L. King (3)
A. F. Ehride
MMA-2703
MP

WRStorms:als

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

Department of the Interior
Defense Minerals Administration
RECEIVED
FEB 2 1953

December 29, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2763, Chiricahua Claims, Metate Asbestos Corporation, Gila County, Arizona.

Enclosed are the original and 8 copies of the geologic report by A. F. Shride of the U. S. Geological Survey, covering the above docket.

It has been recommended that the loan be denied.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4185, University Station
Tucson 5, Arizona

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

December 24, 1952

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: A. F. Shride, Tucson, Arizona

Subject: Geologic Report, DMRA 2703, Chiricahua Claims, Natate Asbestos Corp., Gila County, Arizona (Asbestos)

Enclosed are the original and 8 copies of the above report by A. F. Shride of the Geological Survey.

It is recommended that the application be denied for lack of geologic potential.

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

Enclosures 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS C. McKAY, SECRETARY

BUREAU MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

BMA-2762, Chiricahua Asbestos Prospect,

Metate Asbestos Corporation,

San Carlos Indian Reservation, Gila County, Arizona

Lincoln A. Stewart, Mining Engineer
U. S. Bureau of Mines

January 1953

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Lincoln A. Stewart[1]

An application from the Metate Asbestos Corp., Gila County, Ariz. for a $30,725 exploration loan on its Chiricahua asbestos deposit, was received November 14, 1952 by the Tucson, Ariz. office of the Defense Minerals Exploration Administration. The application was docketed as DMEA-2763. The purpose of the loan was to construct a 2-mile access road and explore the company's asbestos deposit by 775 feet of drifting and crosscutting.

The Chiricahua group of 9 unpatented mining claims is held under lease from the San Carlos Indian Reservation by the Metate Asbestos Corp. of Globe, Ariz. The property is 15 airmiles southeast of Globe, Gila County, Ariz. in Secs. 9 and 16, T. 2 S., R. 17 E. This is an area not previously prospected, consequently there has been no production. An examination was made by the writer and A. F. Shride[2] on December 2, 1952.

In this area, the members of the Apache group, intruded by diabase, have been block-faulted and tilted. This deformation is post mineral. Four asbestos-bearing serpentine zones lie immediately under the base of the Algal member of the Mescal formation, have a strike of N. 10° W., and dip westward into the hill at 25°. This mineralized area is well exposed for about 400 feet. At the south end of the exposures, the serpentine and fiber pinch out. The north end of the mineralized zones is covered by overburden. One to four feet of limestone lies between each serpentine band. The upper 12- to 18-inch serpentine zone contains

---

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

1½ inches total fiber in several veinlets at the best place, but the fiber content decreases north and south. This zone contains soft fiber of excellent tensile strength. The three lower zones contain lesser amounts of fiber that is fairly harsh and weak.

It is concluded that the 400-foot outcrop shows a fair sample of expectancy for some distance into the deposit. At no place is there sufficient concentration of fiber to be considered commercial. There are no visible diabase structures that could distort the limestone beds, thus making a target for an exploratory drift. The writer would like to see this new asbestos area opened up for exploration and possible production, but on the basis of the above conclusions, there appears to be no possible justification for granting this exploratory loan.

It is recommended that the application of the Motato Asbestos Corp. for exploration of its Chiricahua property be denied.

CHIRICAHUA CLAIMS
MINATT ASBESTOS CORPORATION
GILA COUNTY, ARIZONA
(ASBESTOS)

DMEA 2763

Geology

By
A. F. Shride
Geologist, U. S. Geological Survey

CHIRICAHUA CLAIMS
MESTAS ASBESTOS CORPORATION
GILA COUNTY, ARIZONA
(ASBESTOS)

DMEA 2763

CONTENTS

	Page
Geology of the Asbestos Deposit	1
Recommendation	3

The Chiricahua asbestos deposit is in the north-central part of the Hayes Mountains approximately 12 miles airline southeast of Globe, Arizona. The deposit, which is on the San Carlos Indian Reservation, is accessible from Globe by 12.9 miles of paved highway, 2.7 miles of poor dirt road, and approximately 1½ miles of poor trail.

GEOLOGY OF THE ASBESTOS DEPOSIT

The Chiricahua deposit crops out along a steep, east-facing escarpment at an altitude of approximately 4500 feet. Here the pre-Cambrian Mescal limestone strikes N. 10° W. and dips 20°-25° SW. This attitude reflects regional Tertiary deformation and is not related to deformation due to diabase intrusion. Four serpentine zones, containing small amounts of asbestos, parallel the bedding of the limestone and are exposed almost continuously through an outcrop length of approximately 400 feet, and roughly along the strike of the formation. The only development consists of one shallow pit, probably dug in the early 1920's. However, the exposures of the fiber zones are excellent.

The asbestos veins of the uppermost zone are distributed through partially serpentinized limestone that comprises the uppermost 12-18 inches of the lower member of the Mescal limestone (i.e. immediately below the massive algal member of the formation). The next lower fiber zone is in a 2-4 inch thick serpentine layer that is 2½ feet below the base of the algal limestone. The third zone is in a 2-4 inch thick serpentine zone 6½ feet below the algal limestone. The fourth, or lowest asbestos-bearing zone, is 9½ feet below the algal member and in most places consists of less than 6 inches of partially serpentinized limestone.

Figure 1 diagrammatically shows the relation of the fiber horizons to the algal member of the limestone and to the thick (100' feet) underlying diabase sill. This sketch should not be interpreted as a

structure section because attitudes of the beds are not taken into account; also the diagrammatic section is for the outcrop length of the exposure and is not a true section. The purpose of the diagram is to show the cumulative thicknesses of all veins of asbestos in each zone.

The best mineralized outcrop has been further exposed by a shallow pit (see fig. 1). At this place all 4 zones exist and the underlying sill is concordant and about 1 foot below the lowest zone. Sixty feet south of the pit the diabase sill cuts discordantly down through 12 feet of the limestone before continuing concordantly to the south. The asbestos veins of the 4 zones pinch out 20 feet south of this discordancy (see fig. 1).

One hundred feet north of the pit the diabase cuts discordantly up across the lowest asbestos horizon. Eight inches above the horizon the sill becomes concordant and continues so along the outcrop to the north for at least 200 feet.

The fiber contents of the 4 zones are shown on figure 1. All zones are very poorly mineralized. Where asbestos exists in the upper zone it is soft and of high tensile strength; the fiber veins are discontinuous and asbestos occurs only sporadically along the outcrop of the zone. The asbestos of the lowest 3 zones is harsh and of moderate to poor tensile strength. Fiber of the two lowest zones occurs in veinlets generally less than 1/16 of an inch in thickness.

Through most of the Arizona asbestos district the stratigraphic unit here mineralized is a very favorable unit for the localization of asbestos. On the Chiricahua claims the limestone beds range from 1 to 8 inches in thickness; most beds are less than 3 inches thick. In other parts of the district the equivalent limestone is medium- to thick-bedded. The poor mineralization in the Chiricahua area is probably directly related to the lack of competent limestones in the section.

There are no visible folds favorable to localization to asbestos in the area; the limestone beds adjacent to the two discordancies in the sill contact are very little distorted. The topographic expression of the outcrop is such that the mineralized area is well exposed in both north-south and east-west directions and the outcrops should be typical of the deposit.

RECOMMENDATION

Because of the lack of two of the critical geologic conditions (competent limestones and structure) necessary to the localization of a significant asbestos deposit, and because of the obvious lack of appreciable amounts of asbestos (as shown on fig. 1) the application for exploration should be denied.

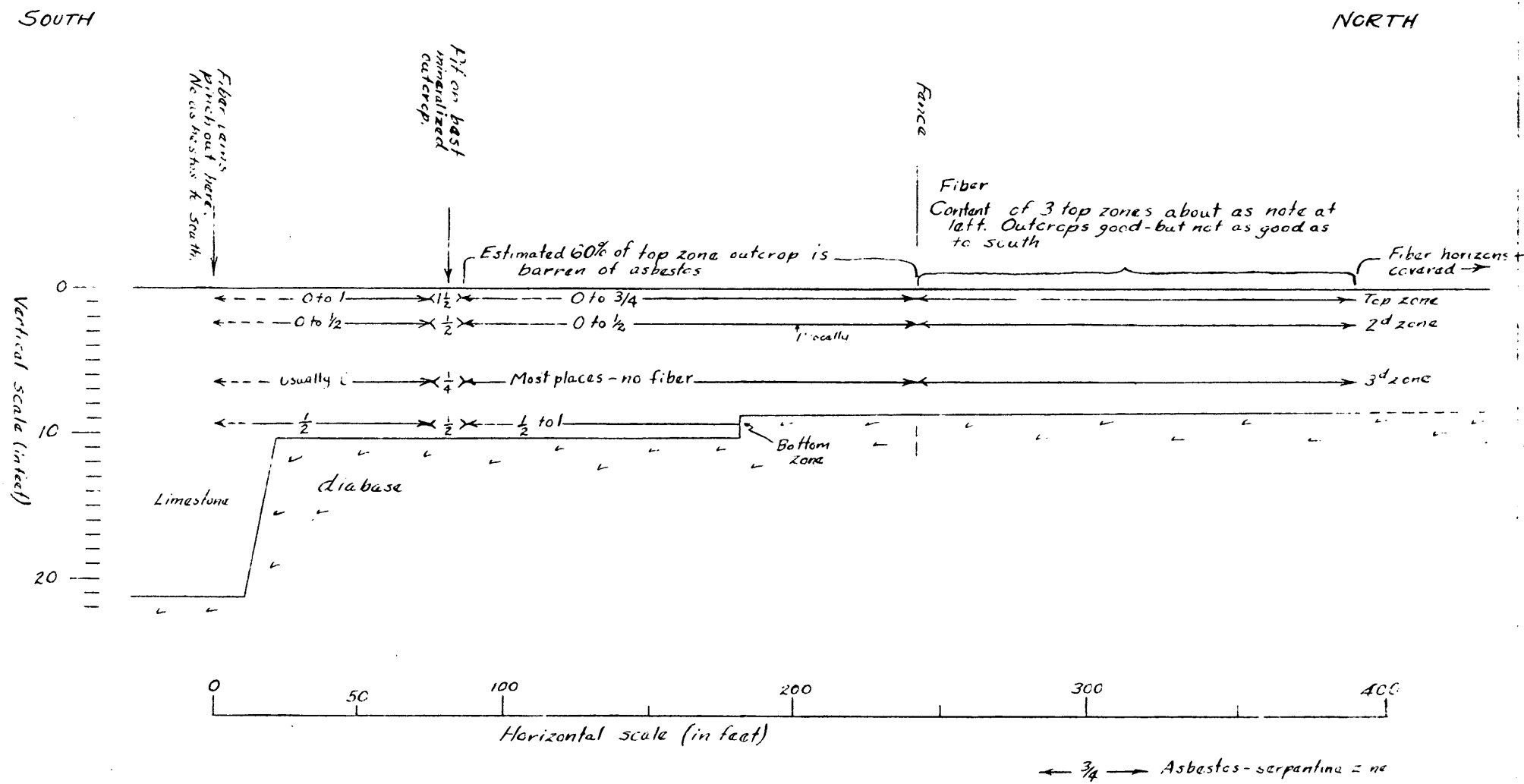


FIG 1.- DIAGRAM SHOWING DISTRIBUTION OF ASBESTOS ALONG OUTCROP LENGTH OF CHIRICAHUA DEPOSIT

DMEA-2763

BMSA-2703, CHRYSOTILE ASBESTOS PROSPECT,
UNITED ASBESTOS CORPORATION
SAN CARLOS INDIAN RESERVATION, GILA COUNTY, ARIZONA

PRELIMINARY REPORT

By Lincoln A. Stewart
Mining Engineer
U. S. Bureau of Mines

January 1953

[illegible]-7.3, [illegible]
[illegible]
[illegible] RESERVE, [illegible]

CONTENTS

Engineering Report — Page

Introduction 1
Ownership and extent 1
Location and accessibility 1
Description of the deposit 2
Conclusions 2
Recommendations 3

ILLUSTRATIONS

Figure — Following page

1 Location map 1

INTRODUCTION

Early in November 1952, an application was submitted to the Defense Minerals Exploration Administration for a $30,725 exploratory loan by the Metate Asbestos Corp. of Globe, Ariz. for its Chiricahua property. This application, docketed as DMEA-2703, was received by the Tucson, Ariz. office of the Defense Minerals Exploration Administration on Nov. 14, 1952. The purpose of the exploration was to prospect an outcropping zone of asbestos high on a mountain slope. The proposed work consisted of an access road, $6,250; benching and facing the outcrop, $450; and 775 feet of drifting and crosscutting, $24,025.

The field investigation was made by the examining team on December 2 in company with Jack L. Neal of the applicant company and Dennis D. Green. The latter is associated with the former in the adjacent Mystery prospect (DMEA-2700)

This region had not been examined previously, either by the Bureau of Mines or the Geological Survey. No prospecting and no production is reported from the district.

OWNERSHIP AND TENURE

The Metate Asbestos Corp. holds a lease on the Chiricahua group of 5 claims, which was approved by the San Carlos Indian Reservation Tribal Council on July 9, 1952. The lease papers are in process of final approval by the Department of the Interior. The term of the lease is for a 5-year period.

1/ A. F. Shride, Geologist, U. S. Geological Survey; Lincoln G. Stewart, Mining engineer, U. S. Bureau of Mines.

LOCATION AND ACCESSIBILITY

The Chiricahua group is located in the Dejoa Mountains about 15 air miles southeast of Globe, Gila County, Ariz. at an altitude of approximately 4,500 feet (Figure 1). The claims are in Secs. 9 and 10, T. 2 S., R. 17 E., (unsurveyed), on the San Carlos Indian Reservation.

The property is reached by following paved U. S. Highway 70 eastward from Globe for 13 miles, then turning right on a dim truck trail for 2.7 miles to Coyote Hole tank at the end of the road. From this point there is a 2-mile hike over rough terrain to the outcrop. There is no well defined trail.

None of the operators or prospectors of recent times was aware of the existence of asbestos in this rugged area, consequently no prospecting has been done. It seems to be public knowledge that the Reservation will not favor prospecting by others until Local and Tribal have established the right to all the property they wish.

DESCRIPTION OF THE DEPOSIT

In this general area, the members of the Apache Group, intruded by diabase, have been block-faulted, tilted, and eroded into an intricate pattern. Four asbestos-bearing serpentine zones occur in a 16-foot limestone stratum immediately below the bottom of the Abol member of the Mescal formation, which is on a steep escarpment wall up on the mountain slope. The strike of the bedding is approximately N. 10° W., with a dip into the hill of about 25° westerly.

The serpentine zones are exposed almost continuously along the hillside for nearly 400 feet. At the south end of this exposure the

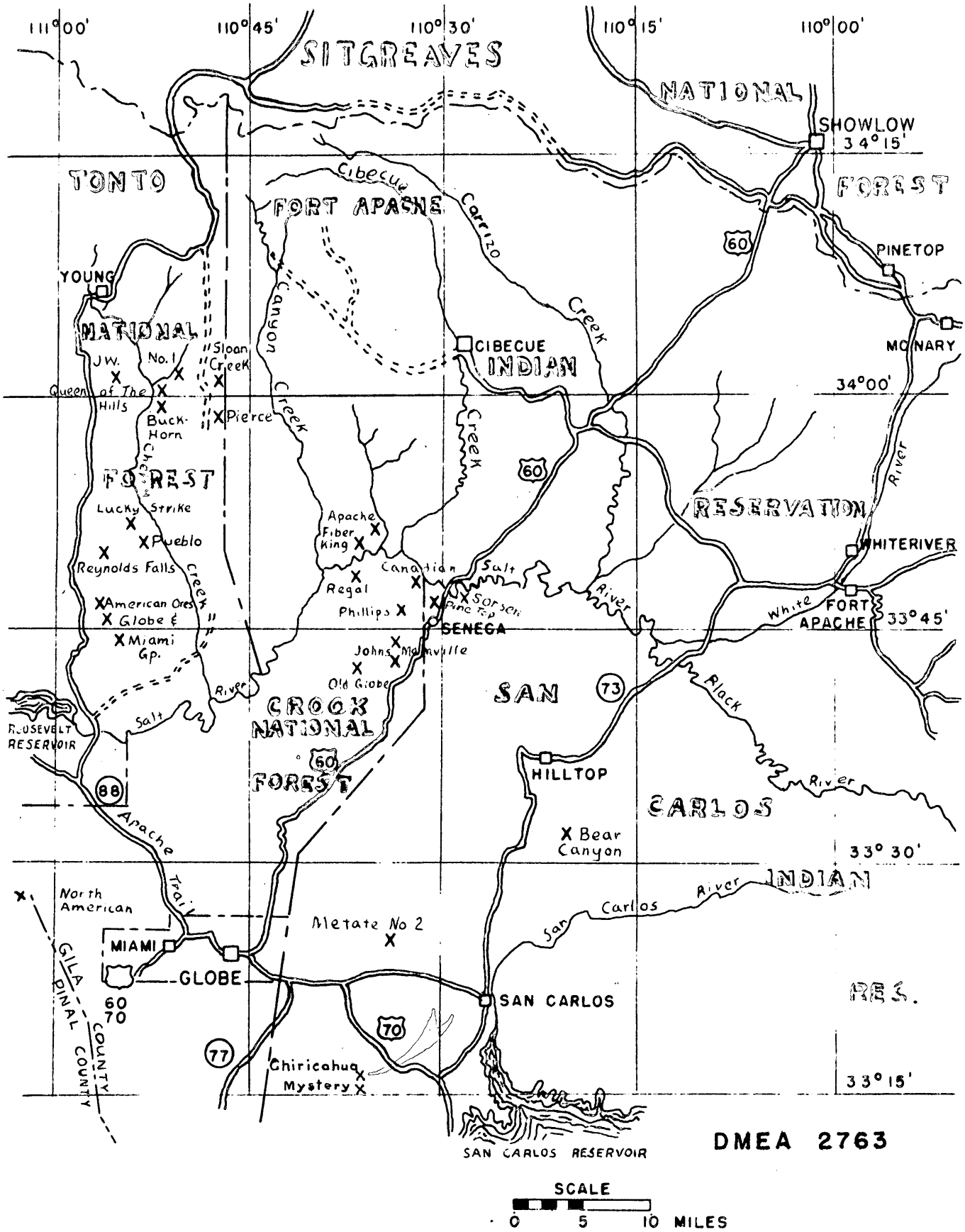


Fig. 1 - Location Map, Asbestos Deposits, Gila County, Arizona

veins pinch out, and to the north the formations are covered with overburden. A diabase sill, virtually concordant with the limestone bedding, is 2[illegible] feet below the bottom of the algal member in this area.

At the point of best mineralization there is a shallow pit, said to have been dug about 1924 by an Indian prospector. At this pit, the thickness of the serpentine zones and the distance below the base of the Algal member are as follows:

Zone	Inches, serpentine	Feet below Algal
1	12 - 20	0 - 2[illegible]
2	3 - 6	2[illegible]
3	4 - 6	[illegible]
4	[illegible]	9[illegible]
Diabase contact		10[illegible]

About 50 feet south of the pit, the diabase sill steps down 10 feet or more, then follows the limestone bedding concordantly to the south. Immediately above this discordance, the four mineralized zones pinch out.

At the pit and at indicated distances northward, the total fiber thickness in inches of all veinlets in each zone is as follows:

Zone	At pit	Feet north of pit			
		100	160	320	200
1	1[illegible]	3/4	[illegible]one	[illegible]	traces
2	[illegible]	1/4	1	[illegible]	none
3	[illegible]	traces	[illegible]one	traces	none
4	$\frac{1}{2}$	$\frac{1}{2}$ - 1	Cut out by diabase		

Northward from the 200-foot section, the outcrop is covered with overburden.

The fiber of the upper zone is soft, and of good tensile strength, but in the other zones it is harsh and fairly weak.

In the area investigated, there are no irregularities in the diabase intrusion that could distort the adjacent limestone beds, thus there are no targets for exploration where increased mineralization could be expected. The two previously mentioned changes in the plane of the diabase contact did not disturb the attitude of the limestone beds, consequently no increase in mineralization was effected at these points.

In various letters, Neal has mentioned the presence of diabase "rolls" that would be favorable for the formation of asbestos deposits. Apparently he has mistaken the rapidly changing elevation of the diabase contact around angular cliffs as "rolls", whereas these so-called "rolls" (which imply folds in the limestone) are merely the surface expression of a regularly dipping plane cut by irregular topography.

CONCLUSIONS

The following conclusions are based on an investigation of the area in which the applicant was interested and on which the exploratory application was made. This area comprises the width of only the centrally located claim. There are 2 more claims on each side, but the applicant has done no prospecting work anywhere on the property. Neal had not even walked out or looked for favorable beds beyond the confines of the one exposure. Consequently he had no additional areas for the team to examine.

The 400 feet of well exposed outcrop is partly on strike and partly on dip, thus giving a fair sample of expectancy for some distance into the deposit.

The content of asbestos in all 4 zones is sporadic in occurrence; at no place is there sufficient concentration of fiber to be considered commercial. Only the upper vein is soft fiber, the 3 lower veins being fairly harsh.

There are no visible diabase structures that might cause distortion of the limestone beds and thus make a target for possible exploration.

RECOMMENDATIONS

The writer would like to see this new asbestos area opened up for exploration and possible production, but on the basis of the above conclusions, there appears to be no possible justification for granting this exploratory loan.

Therefore, it is recommended that the application of the Metate Asbestos Corp. for exploration of its Chiricanus property be denied.

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

November 10, 1952

Memorandum

To: Lawrence G. Houk, Chief, Nonmetallic Minerals Division, DMEA

From: Oliver Bowles, Commodity Specialist, Construction and Chemical Materials Branch

Subject: DMEA No. 2763, Metate Asbestos Corporation application

The deposit covered by this application appears to be of very good quality, and extensive enough to merit exploration.

I recommend approval of the loan if the field team decides that such action is justified.

Oliver Bowles, Commodity Specialist
Construction and Chemical Materials Branch

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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 2763
Metal or Mineral
Date Received 11-3-52
Estimated Cost
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

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: Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

(*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

(*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

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

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

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

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

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

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

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

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

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

.....

(*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 ..... days and be completed within ..... months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Oct 23, 1952

Metate Asbestos Corp
(Applicant)

By Jack L Neal

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

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

Name of Applicant

1. a. Metate Asbestos Corporation
   b. Corporation - State of Arizona
   c. Charles Robert Neal, President, RR.2, Box 124, Joplin, Mo.
      Jack L. Neal, Vice-President, 651 E. Kline Street, Globe, Arizona
      R.C.McNabb, Secretary-Treasurer, 504 Porter St., Joplin, Mo.
   d. Does not apply

2. General

   Applicants property right

3. a. Chiricahua Mine, Sections 9 & 16, of Township 2 South, Range 17 East, GSR Meridian, Gila County, Arizona, San Carlos Apache Indian Reservation Lease 5 years, Claims Nos.1,2 and 3 included in the exploration project; Claims 4 and 5 excluded from the project.

   b. Chiricahua Mine
   c. Lease from San Carlos Apache Indian Tribe
   d. Lease approved by San Carlos Apache Tribal Council July 9, 1952. Lease papers in process of final approval by Department of the Interior.
   e. None
   f. Does not apply

4. Physical Description

   a. None
   b. None
   c. This bedded vein of fibre lays in the muscal lime formation below the alga lime formation and is intruded by diabase sills or what is known as "rolls" in this district and we believe it has possibilities of being an extended ore body.
   d. The over all accessibility of the mine is very good, being only 18 miles from the City of Globe, Arizona, 14 miles of this is paved, U.S.Highway 70, and 4 milemmine road. Shipping point 7 miles to Southern Pacific Railroad siding (Cutter). Supply and residence point is Globe, Arizona, 18 miles distant.
   e. Manpower is readily available at San Carlos, the Apache Indian Tribe. Supplies and equipment available at Globe, Arizona, 18 miles distant. Water - Spring on mine road, to be hauled two miles by water truck. Power - Supplied by truck from Globe, Arizona (Gasoline).

5. Exploration Project.

   a. Asbestos (Chrysotile)
   b. Approximately 10,000' of road building and approximately 3 days work with bulldozer facing outcrop and leveling for compressor house. No present mine workings. Proposed work is 475' of drift 5x7 into the deposit and 300 feet of cross cut to explore the width of the vein. Location of tunnel to be decided by field team and owners of lease mutually.
   c. 60 Days - 24 months
   d. Metate Asbestos Corporation at present operating lease on San Carlos Indian Reservation. Supervisor Jack L. Neal.

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6. Estimate of Costs

Road - Approximate 10,000' at $0.62½ per foot	$ 6,250.00
Benching and Facing - 3 days bulldozer @ $18.75 per hour	450.00
Drift - 775' @ $31.00 per foot	24,025.00
Total	$30,725.00

a. Road will be built on contract @ $0.62½ per lineal foot.
   Drift work @ $31.00 per lineal foot 5x7
b. Attached
c. Attached
d. Operating Equipment Attached
e. Attached
f. None
g. Attached
h. Attached

7.
a. Yes
b. Money

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6.

Rental of Equipment (Furnished by Metate Asbestos Corp.)

	Present Value
211 Cu.Ft. Compressor	$6,500.00
7½ H.P.Slusher	1,800.00
Jackhammer	500.00
Jackleg	200.00
Line oiler	20.00
3/4" Air line (rubber) 100'	50.00
1/2" Water hose (rubber) 50'	15.00
Water Gooseneck	10.00
2 Mine cars	500.00
	$9,295.00

Rental Basis per month

$\frac{\$9,295.00}{60}$ = $154.91

Rental Basis per foot advance

3 Ft./day x 25 days/month = 75'

$\frac{154.91}{75}$ = $ 2.07 per ft.

Labor

1 Miner @ $15.00 per shift	$ 15.00
3 Muckers @ $11.50 per shift	34.50
1 Trammer (½ shift) @ $11.50	5.75
Total	$ 55.25

Includes overtime, industrial insurance of 9.92%, and Social Security Tax of 4.5%

On Advance of 3' per day

$\frac{\$55.25}{3.0}$ = $ 18.40 per foot

Supplies

Explosives (14 hole per round)

Dynamite, 28 pounds @ $0.21 / lb.	$5.88
Caps, 14 @ $0.02 each	.28
Fuse, 112' @ $0.12/Ft.	1.34
Total	$7.50

$\frac{\$7.50}{3.0}$ = $2.50 per foot

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6. Fuel for Compressor

Compressor to be in operation 16 hours per day; 8 hours drilling and 8 hours furnishing air for tugger to pull cars up incline.

30 gal.gas @ $0.305/gal. 2 qts.oil @ $0.30 = $9.75

$\frac{\$9.75}{3.0}$ = $3.25 per foot

Pipe and Track

Pipe and track to be purchased by Neal and Green and to remain in the Companys possession upon the termination of the project. The project to be charged 40% of the estimated purchase price for these items.

	Per foot
Rails, spikes, ties, fishplates and switches	$1.25
2" air line, with valves and fittings	.50
1" water line, with valves and fittings	.25
Total	$2.00

$2.00 x 40% = $0.80 per foot

Drill Steel and Bits

Steel breakage estimated to be 1-4' piece per 3 rounds, or 9' advance.
4 Timken detachable bits per round, this also includes sharpening.

Steel - $\frac{\$6.00}{9.0}$ = $0.67 per foot

Bits - $\frac{4x\ \$0.56}{3.0}$ = .74 per foot

$1.41 per foot

Other Supplies

	Per Foot
Machine oil for drill and tugger	$0.15
Carbide	.10
Picks, shovels, flatsheet, wrenches, jimcrowbars, moils, loading sticks and other small tools (This covers replacement and breakage)	.30
Total per ft.	$0.55

Repairs

Normal repairs on machinery to be rented from company, including breakage and obsolesence. $0.75 per foot.

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6. Supervision and Engineering

Estimated at $1.25 per foot.

Water Haulage

Tank truck two trips per week $ 20.00 per trip

$40.00 per week / 18 feet advance = 2.22 per foot

(The above includes rental on tank truck labor two pumps one at spring and one at mine, and two tanks and operating expense of truck)

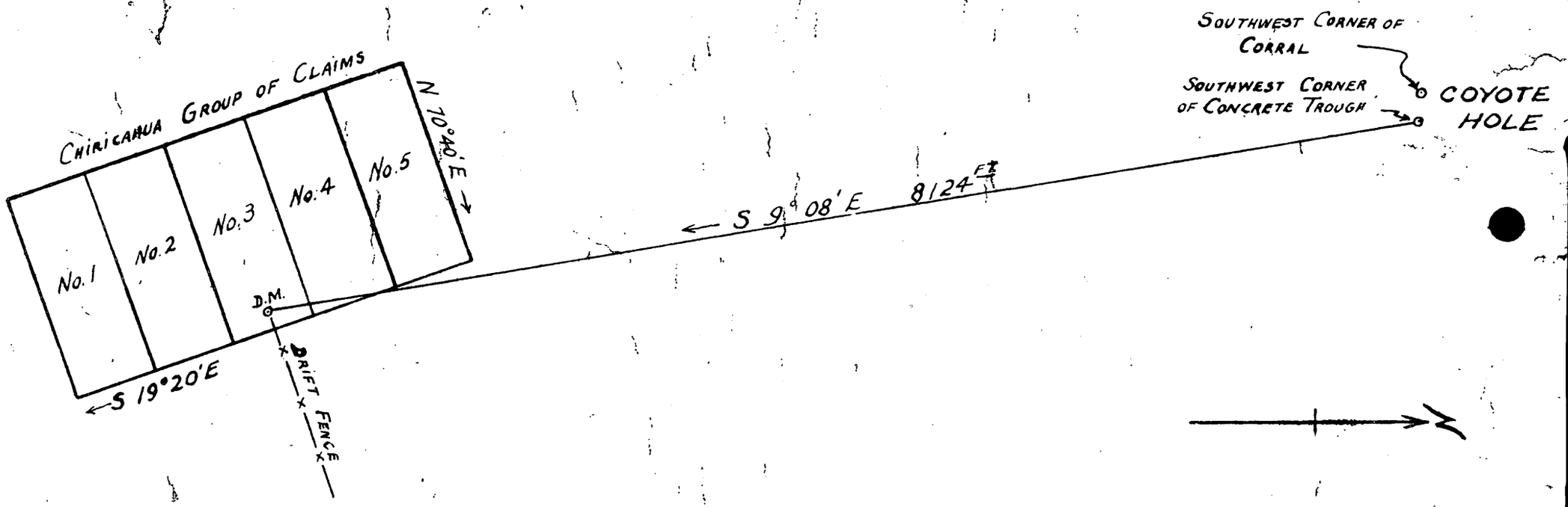
Summary

		Cost per foot
Rental of equipment		2.07
Labor		18.40
Supplies:		
Explosives	$2.50	
Fuel	3.25	
Pipe and Track	.80	
Steel and bits	1.41	
		8.51
Repairs		.75
Supervision and Engineering		1.25
Water Haulage		2.22
	Total Cost	$ 33.20

Estimated Cost of Project

775' of drifting	@ $31.00 per ft.	$24,025.00
10,000' of road work	@ $0.62½ per ft.	6,250.00
24 Hrs. Dozer work benching	@ $18.75 per hour	450.00
	Total	$30,725.00

Metate Asbestos Corporation	10% =	$ 3,072.50
DMEA	90% =	27,652.50
Total		$30,725.00



CHIRICAHUA GROUP OF CLAIMS
OF
METATE ASBESTOS CO.
ON
SAN CARLOS APACHE
RESERVATION

SECTIONS-9-16 T-2-S RANGE 17 E GSR MERIDIAN
JUNE 1952
SCALE 1 IN = 1,000 FT

STADIA & COMPASS HEARINGS &
TRANSIT ANGLES
J. Lewis

dmea 2763

600

NOV 6 1952

Mr. Jack L. Neal, Vice-President
Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

Subject: Docket No. DMEA-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. Neal:

Your application is being referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado, for further information.

Your interest in the exploration program is appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

LOHouk:gad 11/5/52

Copy to: Adm. R. File
Operating Committee (2)
Field Team, Region IV (2)
Docket File
Mr. Norton, G-232 GSA Bldg.
Dr. Bowles, 3516
Mr. Houk

600

NOV 6 1952

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-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. King:

Reference is made to subject application for exploration assistance on the Chiricahua Mine in Gila County, Arizona. A field examination is requested.

This application is on a new area on the San Carlos Indian Reservation and leases are being procured. Kindly determine whether the leases are to the Metate Asbestos Corp. or to individuals in the Corporation. If the leases are to individuals in the Corporation, the assignment of leases requires approval by the Secretary of the Interior.

Please submit a review of the costs set forth in the enclosed application and indicate whether they are in line with costs for similar work in the district. It is noted that claims four and five are excluded from the area that may benefit from the exploration. If exploration assistance is recommended discuss with the applicant the location of the adit and indicate the size of the geologic target. Samples of asbestos from this deposit examined by Emergency Procurement Service indicate that it is strategic quality.

The Geological Survey and Bureau of Mines have indicated their approval that this property merits a field examination.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

Approved: J. H. Hedges
Member, Geological Survey
A. R. Kinkel Jr.
Member, Bureau of Mines

LOHouk:gad 11/5/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Dr. Bowles, 3516
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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600 FEB 2 1953

NOV 6 1952

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-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. King:

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The Geological Survey and Bureau of Mines have indicated their approval that this property merits a field examination.

Sincerely yours,

(signed) FRANK E. JOHNSON
Chairman, Operating Committee

Approved:
J. H. Hedges
Member, Geological Survey
A. R. Tinkel, Jr
Member, Bureau of Mines

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

NOV 6 1952

Mr. Jack L. Neal, Vice-President
Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

Subject: Docket No. DMEA-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. Neal:

Your application is being referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado, for further information.

Your interest in the exploration program is appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

LGHouk:gad 11/5/52

Copy to: Adm. R. File
Operating Committee (2)
Field Team, Region IV (2)
Docket File
Mr. Morton, G-232 GSA Bldg.
Dr. Bowles, 3516
Mr. Houk

UNITED STATES
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Field Team, Region IV (2)
Docket File
Mr. Norton, G-232 GSA Bldg.
Dr. Bowles, 3516
Mr. Houk

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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-2763
Metal or Mineral
Date Received 11-3-52
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: Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

(*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

(*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

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

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

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

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

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

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

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

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

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

.....

(*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 ..... days and be completed within ..... months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Oct. 23, 195[illegible]

Metate Asbestos Corp.
(Applicant)

By Jack L. Neal

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

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

Name of Applicant

1. a. Metate Asbestos Corporation
   b. Corporation - State of Arizona
   c. Charles Robert Neal, President, RR.2, Box 124, Joplin, Mo.
      Jack L. Neal, Vice-President, 651 E. Kline Street, Globe, Arizona
      R.C.McNabb, Secretary-Treasurer, 504 Porter St., Joplin, Mo.
   d. Does not apply

2. General

   Applicants property right

3. a. Chiricahua Mine, Sections 9 & 16, of Township 2 South, Range 17 East, GSR Meridian, Gila County, Arizona, San Carlos Apache Indian Reservation Lease 5 years, Claims Nos.1,2 and 3 included in the exploration project; Claims 4 and 5 excluded from the project.

   b. Chiricahua Mine
   c. Lease from San Carlos Apache Indian Tribe
   d. Lease approved by San Carlos Apache Tribal Council July 9, 1952. Lease papers in process of final approval by Department of the Interior.
   e. None
   f. Does not apply

4. Physical Description

   a. None
   b. None
   c. This bedded vein of fibre lays in the muscal lime formation below the alga lime formation and is intruded by diabase sills or what is known as "rolls" in this district and we believe it has possibilities of being an extended ore body.
   d. The over all accessibility of the mine is very good, being only 18 miles from the City of Globe, Arizona, 14 miles of this is paved, U.S.Highway 70, and 4 milesmine road. Shipping point 7 miles to Southern Pacific Railroad siding (Cutter). Supply and residence point is Globe, Arizona, 18 miles distant.
   e. Manpower is readily available at San Carlos, the Apache Indian Tribe. Supplies and equipment available at Globe, Arizona, 18 miles distant. Water - Spring on mine road, to be hauled two miles by water truck. Power - Supplied by truck from Globe, Arizona (Gasoline).

5. Exploration Project.

   a. Asbestos (Chrysotile)
   b. Approximately 10,000' of road building and approximately 3 days work with bulldozer facing outcrop and leveling for compressor house. No present mine workings. Proposed work is 475' of drift 5x7 into the deposit and 300 feet of cross cut to explore the width of the vein. Location of tunnel to be decided by field team and owners of lease mutually.
   c. 60 Days - 24 months
   d. Metate Asbestos Corporation at present operating lease on San Carlos Indian Reservation. Supervisor Jack L. Neal.

etate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6. Estimate of Costs

Road - Approximate 10,000' at $0.62½ per foot	$ 6,250.00
Benching and Facing - 3 days bulldozer @ $18.75 per hour	450.00
Drift - 775' @ $31.00 per foot	24,025.00
Total	$30,725.00

a. Road will be built on contract @ $0.62½ per lineal foot.
   Drift work @ $31.00 per lineal foot 5x7
b. Attached
c. Attached
d. Operating Equipment Attached
e. Attached
f. None
g. Attached
h. Attached

7.
a. Yes
b. Money

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6. Supervision and Engineering

Estimated at $1.25 per foot.

Water Haulage

Tank truck two trips per week $ 20.00 per trip

$40.00 per week = 2.22 per foot
18 feet advance

(The above includes rental on tank truck labor two pumps one at spring and one at mine, and two tanks and operating expense of truck)

Summary

		Cost per foot
Rental of equipment		2.07
Labor		18.40
Supplies:		
Explosives	$2.50	
Fuel	3.25	
Pipe and Track	.80	
Steel and bits	1.41	
Other Supplies	.55	8.51
Repairs		.75
Supervision and Engineering		1.25
Water Haulage		2.22
	Total Cost	$ 33.20

Estimated Cost of Project

775' of drifting	@ $31.00 per ft.	$24,025.00
10,000' of road work	@ $0.62½ per ft.	6,250.00
24 Hrs. Dozer work benching	@ $18.75 per hour	450.00
	Total	$30,725.00

Metate Asbestos Corporation	10% =	$ 3,072.50
DMEA	90% =	27,652.50
Total		$30,725.00

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6.

Rental of Equipment (Furnished by Metate Asbestos Corp.)

	Present Value
211 Cu.Ft. Compressor	$6,500.00
7½ H.P.Slusher	1,800.00
Jackhammer	500.00
Jackleg	200.00
Line oiler	20.00
3/4" Air line (rubber) 100'	50.00
1/2" Water hose (rubber) 50'	15.00
Water Gooseneck	10.00
2 Mine cars	500.00
	$9,295.00

Rental Basis per month

$\frac{\$9,295.00}{60}$ = $154.91

Rental Basis per foot advance

3 Ft./day x 25 days/month = 75'

$\frac{154.91}{75}$ = $ 2.07 per ft.

Labor

1 Miner @ $15.00 per shift	$ 15.00
3 Muckers @ $11.50 per shift	34.50
1 Trammer (½ shift) @ $11.50	5.75
Total	$ 55.25

Includes overtime, industrial insurance of 9.92%, and Social Security Tax of 4.5%

On Advance of 3' per day

$\frac{\$55.25}{3.0}$ = $ 18.40 per foot

Supplies

Explosives (14 hole per round)

Dynamite, 28 pounds @ $0.21 / lb.	$5.88
Caps, 14 @ $0.02 each	.28
Fuse, 112' @ $0.12/Ft.	1.34
Total	$7.50

$\frac{\$7.50}{3.0}$ = $2.50 per foot

Metate Asbestos Corporation
Chiricahua Mine
Globe, Arizona

6. Fuel for Compressor

Compressor to be in operation 16 hours per day; 8 hours drilling and 8 hours furnishing air for tugger to pull cars up incline.

30 gal.gas @ $0.305/gal. 2 qts.oil @ $0.30 = $9.75

$\frac{\$9.75}{3.0}$ = $3.25 per foot

Pipe and Track

Pipe and track to be purchased by Neal and Green and to remain in the Companys possession upon the termination of the project. The project to be charged 40% of the estimated purchase price for these items.

	Per foot
Rails, spikes, ties, fishplates and switches	$1.25
2" air line, with valves and fittings	.50
1" water line, with valves and fittings	.25
Total	$2.00

$2.00 x 40% = $0.80 per foot

Drill Steel and Bits

Steel breakage estimated to be 1-4' piece per 3 rounds, or 9' advance.
4 Timken detachable bits per round, this also includes sharpening.

Steel - $\frac{\$6.00}{9.0}$ = $0.67 per foot

Bits - $\frac{4x\ \$0.56}{3.0}$ = .74 per foot

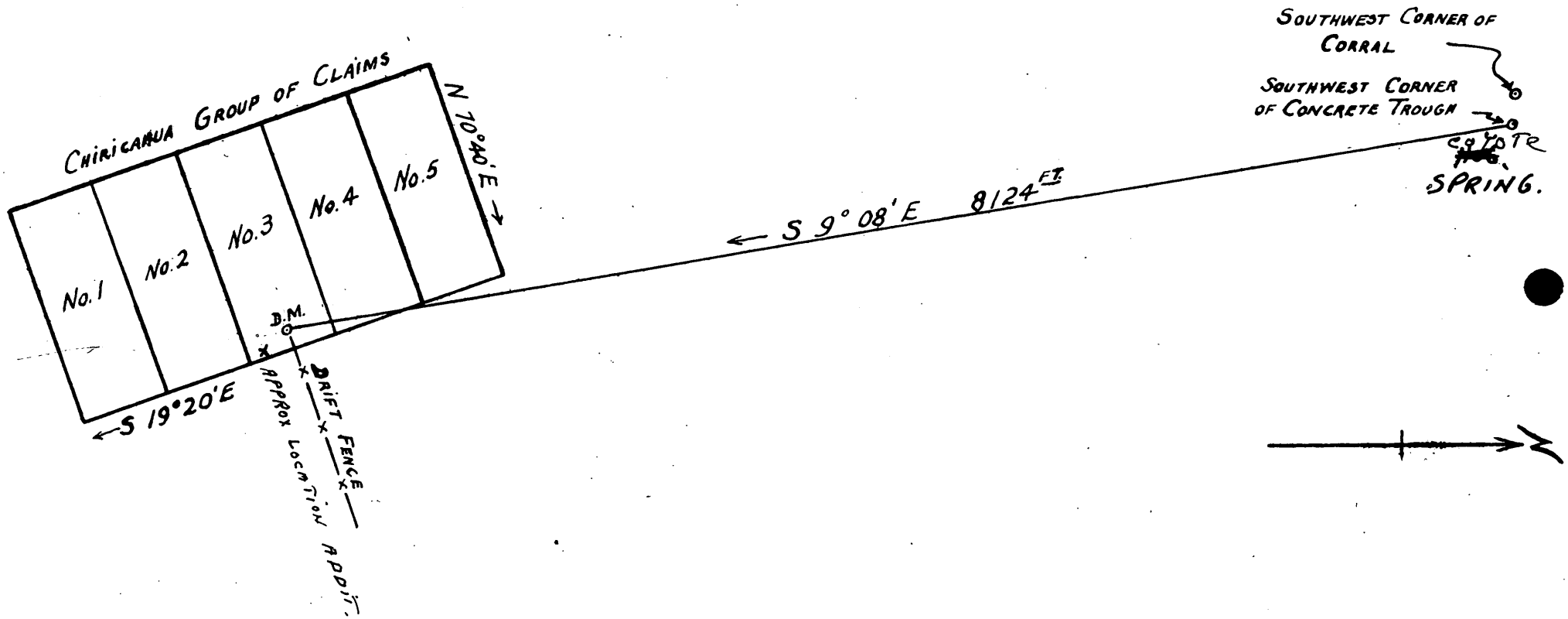
$1.41 per foot

Other Supplies

	Per Foot
Machine oil for drill and tugger	$0.15
Carbide	.10
Picks, shovels, flatsheet, wrenches, jimcrowbars, moils, loading sticks and other small tools (This covers replacement and breakage)	.30
Total per ft.	$0.55

Repairs

Normal repairs on machinery to be rented from company, including breakage and obsolesence. $0.75 per foot.



CHIRICAHUA GROUP OF CLAIMS
OF
METATE ASBESTOS CO.
ON
SAN CARLOS APACHE
RESERVATION
SEC. 9 & 16 - T-2-S RANGE 17. E. G.S.R. MERIDIAN
JUNE 1952
SCALE 1 IN = 1,000 FT.

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

Mr. Jack L. Neal, Vice President
Metate Asbestos Corporation
P. O. Box 1516
Globe, Arizona

Re: Docket No. DMEA-2763 - Asbestos
Chiricahua Mine
Gila County, Arizona

Dear Mr. Neal:

Reference is made to your letter of January 26, 1953, requesting your application be held in suspension while you ~~prospect for more favorable areas to explore~~.

~~You are granted~~ 120 days from the date of this letter ~~to do the necessary prospecting work to qualify for exploration assistance. Should you~~ uncover favorable evidence of asbestos mineralization on the three claims mentioned in your application, please advise the field team ~~and request a re-examination~~. If you fail to find a favorable location, please advise this office.

Your interest in the Exploration Program of the Defense Minerals Exploration Administration and your willingness to participate therein are appreciated.

Sincerely yours,

~~CHING~~ Administrator

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

November 10, 1952

Memorandum

To: Lawrence G. Houk, Chief, Nonmetallic Minerals Division, DMEA

From: Oliver Bowles, Commodity Specialist, Construction and Chemical Materials Branch

Subject: DMEA No. 2763, Application of Metate Asbestos Corporation, Globe, Arizona

The area covered by the proposed exploration project has furnished samples of high-quality asbestos of strategic grade. Also, the outcrop is said to be traceable for 1,000 feet. Accordingly, the deposit merits examination by the field team.

Oliver Bowles, Commodity Specialist
Construction and Chemical Materials Branch